GENERATION INTERCONNECTION STUDY
Project # GI-0304 – 37718-01

Final Report

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ABB Inc. **Technical Report**

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Executive Summary

The main objective of this study is to assess the impact of interconnecting 80 MW of wind-based generation (GI-0304) on the Spencer - Sioux City 161 kV line, at a distance of 15 miles from the Spencer substation in O'Brien County, IA. This system impact study (SIS) includes system performance evaluation based on steady state analysis, constrained interface analysis, stability analysis and short-circuit analysis.

Steady-State Analysis:

The interconnection of the proposed GI-0304 project impacted several transmission facilities and resulted in steady-state criteria violations based upon the modeled delivery of the generator's output. It should be noted that many of these overloads are pre-existing due to delivery assumptions from prior queued generation interconnections, and therefore, it is unclear whether these possible overloads will ultimately occur. If they do, these violations may limit the ability of the project to inject power into the transmission system and will therefore need to be resolved during the associated delivery studies. These steady state issues should not impact the ability of the project to interconnect. Additional prior outage studies will be performed during the Facilities Study to identify any required generation restrictions for prior outage operation.

Constrained Interface Analysis:

The study also evaluated the impact of the proposed project on constrained interfaces in the MAPP system and found that the Transfer Distribution Factor (TDF) exceeds the maximum allowable threshold for the following interfaces: COOPER_S: 12.4%, ECL-ARP: 5.7%, FTCAL_S: 16.5%, MWSI: 12.6%, PRI-BYN: 6.9%, QUADCITY_W: 19.7%, LKFFOXLKGWLM: 3.5%, SPETRILAKRAU: 26.9%. These distribution factors are provided for information only to identify potential third party flowgate issues for the transfer of power from the proposed project to the sink. As new interfaces are regularly added to the MAPP process, this listing may not include any recently added flowgates.

Stability Analysis:

The impact of the proposed wind farm on local area transient stability was evaluated. Results indicate that the proposed wind farm would not adversely impact local area stability. This study has also evaluated the impact of the GI-0304 project on the regional stability of the system. Results indicate that faults *nbz* and *nmz* (fault on Chisago – Forbes 500 kV line) lead to significant transient undervoltage violations West and Northwest of the Twin Cities, both with and without GI-0304. Undervoltage violations were also observed in this region following fault

ei2 (permanent bipole fault on the CU DC line with both Coal Creek units tripped). The impact of the proposed GI-0304 project on these questionable violations is not significant. However as the system performance is unacceptable in the pre-project models, the ultimate impact cannot be fully quantified at the present time. Additional sensitivity work will need to be performed once the impacts of the prior queued generation are resolved, to ensure that transient voltage criteria is met. Therefore the study concluded that the regional stability of the system is not likely adversely impacted by the addition of this wind farm.

Short-Circuit Analysis:

Short-circuit analysis was performed to evaluate the impact of the proposed project on transmission system substation fault current levels. The purpose of this analysis was to determine whether the existing breakers at these substations would have adequate fault current interruption capability with the proposed project in service. The Transmission Owners should review the calculated fault currents to determine whether existing breakers at the impacted substations could become overstressed and whether breaker replacements may be required.

The results of this study are based on available data and assumptions made at the time of conducting this study. If any of the data and/or assumptions made in developing the study models change, the results provided in this report may not apply.

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1. INTRODUCTION

Western Area Power Administration (WAPA) commissioned ABB Inc., to perform a Generation Interconnection Study for interconnection of Project # GI-0304, an 80 MW wind generation project to be located in O' Brien County, IA. The project is interconnected to the system by tapping into the Spencer – Sioux City 161 kV line (15 miles from Spencer). Figure 1.1 shows the schematic diagram for the interconnection of this project.

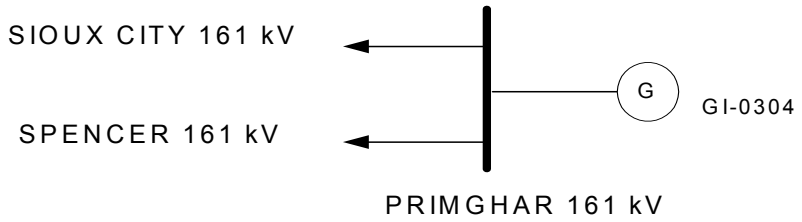

Figure 1.1: Interconnection Diagram for GI-0304

Prior to performing this study, a Coordinated Interconnection Study[1] for the interconnection of 824 MW of wind-based generation (collectively known as Group 2 projects) was performed. Project GI-0304 is the fifth in a queue of seven generators comprising the Group 2 projects. These generators are in the vicinity of Southwestern Minnesota (Buffalo Ridge area) and Northwestern Iowa.

Section 2 describes the study methodology and the criteria used for analyses. The results of the steady-state analysis are presented in Section 3. The impact of the proposed project on MAPP constrained interfaces is also presented in this section. Section 4 presents the results of the stability analysis. Short-circuit analysis results are presented in Section 5.

[1] Coordinated Interconnection Studies – Study of Group #2 Generation Projects

2. STUDY METHODOLOGY

2.1 Steady State Analysis

The purpose of steady-state analysis is to analyze the impact of the proposed project on transmission system facilities under steady-state conditions. It involves two distinct analyses: thermal analysis and voltage analysis.

2.1.1 Thermal Analysis

System Intact Analysis:

The incremental impact of the GI-0304 project on thermal loading of transmission facilities under system intact conditions was evaluated by comparing the transmission system power flows for 2007 summer peak and summer off-peak conditions with and without the GI-0304 project. For this purpose, full ac power flow solutions were used.

All facilities rated 69 kV and above were monitored in ALTW, GRE, OTP, XEL, and WAPA. All facilities 100 kV and above were monitored in the MEC and MP areas. The criteria used to flag thermal overloads is 100% of continuous facility rating (Rate A in PSS/E).

MAPP DRS Guidelines[2] were used to identify Significantly Affected Facilities (SAF). According to these guidelines, all overloaded facilities that have a TDF (Transfer Distribution Factor) greater than 2% of the generation addition and an increase in flow of at least 1 MW (without plant vs. with plant) are to be flagged as significantly affected facilities.

N-1 Contingency Analysis:

N-1 contingency analyses include single branch and selected multi-element contingencies for 2007 summer peak and off-peak conditions both with and without the GI-0304 project. Single branches as well as multiple circuit outages in the XEL area and single branch contingencies in ALTW, GRE, OTP and WAPA were considered. All facilities rated 69 kV and above were monitored in ALTW, GRE, OTP, XEL and WAPA. All facilities 100 kV and above were monitored in the MEC and MP areas.

Contingency analysis was performed using activity ACCC of PSS/E. The contingencies were solved with phase shifters and tap changers enabled. Thermal violations were flagged based on Rate A data for facilities (from PSS/E). Post-contingency power flows in excess of 90% of the Rate A were flagged. Non-convergent cases from these analyses were resolved manually and their violations were appended to the ACCC results. Facility loadings with and without the GI-0304 project were tabulated and compared. The criteria used to flag thermal overloads is 100% of the continuous facility rating (Rate A in PSS/E).

[2] MAPP Design Review Subcommittee (DRS), Steady-State Facility & Constrained Path Impact Determination Requirements & Screening Guidelines for Study Submissions. July 18, 2003.

In order to calculate the Transfer Distribution Factor (TDF), a DC-power flow based analysis was performed using the MUST program (functionally equivalent to the TLTG Activity in the PSS/E Program). MUST was instructed to study power transfer from GI-0304 to the respective sink defined with appropriate participation factors. The MUST output provides a list of all post-contingency thermal overloads as a function of the study transfer (based on the TDF computed). The thermal violations flagged by MUST were identified in the ACCC results. The results showed a fairly good agreement in majority of the cases, except in the following instances where the violations were not flagged by MUST:

- An overload listed in one ACCC output but absent in the other because of the latter failing to meet ACCC run criteria of at least 1 MW change in the flow on the overloaded facility between base case and contingency case.

- The effect of the discrete controls of the switched shunts and the transformer taps in the ACCC solutions.

As in the system intact analysis, MAPP DRS Guidelines were used to identify Significantly Affected Facilities (SAF). Facilities with a TDF greater than 2.0% were included in the SAF list.

Appendix C summarizes the corresponding .sub, .mon and .con files utilized in the studies.

2.1.2 Voltage Analysis

For system intact conditions, bus voltages that fall outside the band 0.95 pu – 1.05 pu are flagged as violations. For N-1 contingency conditions, bus voltages outside the range 0.92 pu – 1.10 pu are flagged as violations. In accordance with MAPP DRS Guidelines, those buses that have a voltage change of more than 0.01 pu (without plant vs. with plant) are included in the SAF list.

2.2 Constrained Interface Analysis

The purpose of the constrained interface analysis is to calculate the impact of the proposed project on specified constrained interfaces in the MAPP transmission system. The MAPP DFCALC constrained interface analysis program is used for this purpose.

2.3 Stability Analysis

The purpose of this analysis was to determine whether the MAPP system would meet stability criteria following commissioning of the proposed GI-0304 project. To that end, “local” and “regional” contingencies were simulated under summer off-peak conditions with maximum simultaneous NDEX (≈1950 MW), MHEX (≈2175 MW), and MWSI (≈1480 MW) transfer levels. The studies were conducted utilizing the April 2004 MS Windows Version of the NMORWG Stability Package.

First, a stability-ready power flow case was developed to represent system conditions before the addition of the GI-0304 plant (i.e., a Pre-GI-0304 case was developed). Next, the proposed wind farm was added to the Pre-GI-0304 power flow case to create the GI-0304 power flow case. The dispatch of existing generation was adjusted accordingly

utilizing the same guidelines as in the steady-state analyses. Stability analysis was performed on the GI-0304 case to determine the stability of the new and existing units when the system is subjected to faults in the local area, as well as critical faults in the region.

2.4 Short-Circuit Analysis

The purpose of short circuit analysis is to identify breakers in the transmission system that will not be able to handle the increased fault current due to the addition of the proposed GI-0304 project. A short-circuit model was developed to represent the system prior to the addition of the proposed project. The proposed project was added to this short-circuit model to create another short-circuit model with GI-0304 in-service.

Three-phase and single-line-to-ground faults were simulated on these short-circuit models and the impact of the GI-0304 project on the increase in fault currents was determined. The Transmission owners should review the calculated fault currents to determine whether existing breakers at the impacted substations could become overstressed and whether breaker replacements may be required.

3. STEADY STATE ANALYSIS

3.1 Base Case Development

Prior to this study, two base cases were developed. These base cases represent the Pre-GI-0304 system (without the proposed GI-0304 Project) and model i) summer peak load conditions and ii) summer off-peak load conditions (with maximum exports from North Dakota).

These Pre-GI-0304 cases were developed from the MAPP 2002 Series 2007 Summer Peak and Summer Off-Peak cases by incorporating several transmission and generation changes. Details pertaining to base case development are provided in Appendix A.

After establishing the base power flow cases, the GI-0304 generation project was added and dispatched against MEC generation in eastern Iowa. This resulted in two additional power flow cases, one representing the summer peak load conditions and the other representing summer off-peak load conditions. Details pertaining to wind farm modeling are described in the next paragraph.

The proposed wind farm is modeled in the load flow as a single equivalent wind turbine generator (see Figure 3.1). The generator step-up transformer (GSU) is also modeled as a single lumped equivalent. The substation transformer is also modeled. Collector system impedances are not modeled. The wind turbine generator is assumed to be fully compensated (i.e., the full-load VAr requirements of the wind turbine generator under base case conditions at 1.0 pu voltage are provided by a fixed shunt capacitor placed at the equivalent generator terminals). In order to have a good voltage profile across the wind farm, the taps on the GSU are adjusted such that the voltage at the equivalent generator terminals is in the range 0.95 to 1.05 pu. A fixed substation capacitor has been modeled to maintain a voltage of 1.0 pu on the 34.5 kV bus. The taps on the substation transformer are adjusted to control the flow on the high side (i.e., at the point of interconnection) to achieve a power factor of nearly unity[3] (within the bounds of the transformer taps). The GSU and substation transformer taps are locked for contingency analysis purposes.

Table 3.1: GI-0304 Project Details

Project	MW	Location	Point of Interconnection		Sink
			Bus Name	Bus #	
GI-0304	80	O' Brien, IA	Sioux City - Spencer 161 kV line (15 miles from Spencer)	6450	MEC Generation in Eastern Iowa

Table 3.2 lists the export levels for the summer off-peak power flow conditions, to reflect a heavily stressed system scenario.

[3] See *Generator Requirements for Interconnection,* WAPA document dated September 1999.

Table 3.2: Export Levels for Summer off-peak Power Flow Case

System Condition	Export Level (MW)		
	NDEX	MHEX_S	MWSI
Summer off-peak	1,950	2,175	1,481

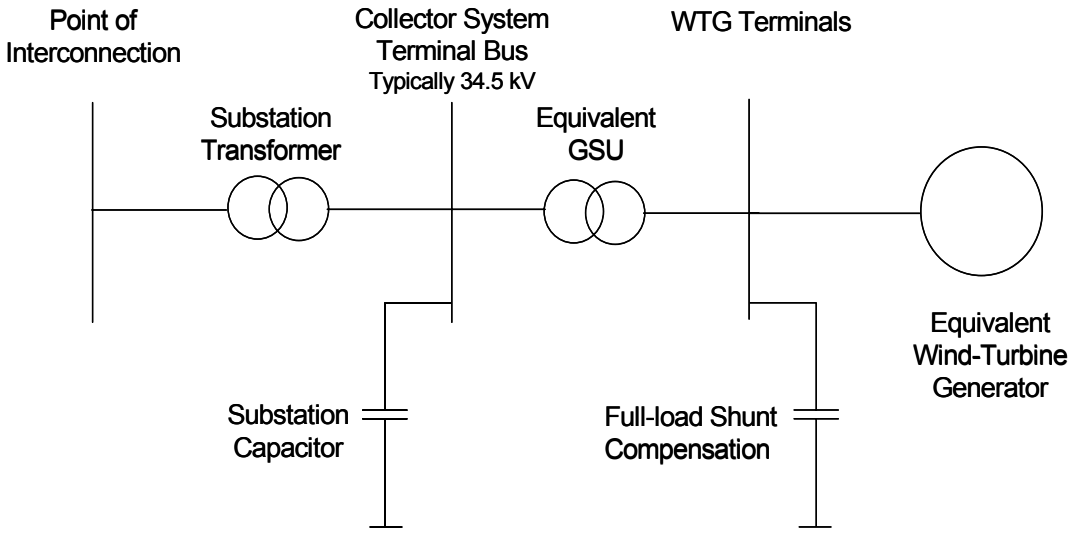

Figure 3.1: Wind Farm Model for Steady State Analysis

3.2 System Intact Analysis

The power flows and voltages were checked in the WAPA system (and also in the facilities of adjoining areas like ALTW, GRE, MEC, MP, OTP, and XEL) to assess the impact of adding the GI-0304 project. The criteria used for flagging thermal overloads is the Rate A data (from the powerflow cases). Bus voltages that fall outside the band of 0.95 pu – 1.05 pu were flagged as violations.

Figures 3.2 – 3.5 show the power flow diagrams of the area in the vicinity of the proposed project for summer peak and off-peak conditions, both with and without the GI-0304 project.

Significantly affected facility loadings for summer peak and off-peak load conditions are presented in Tables 3.3 and 3.4 respectively. The limiting elements listed in these tables are segregated based on transmission ownership information as available from the PSS/E power flow model and information provided by various transmission owners. The output listing from PSS/E is provided in Appendix B.

3.2.1 Summer Peak Conditions

3.2.1.1 Impact of the GI-0304 Project on Facility Loadings

As shown in Table 3.3, the proposed project incrementally increases facility loadings under system intact conditions. The overloads listed in this table were present even prior to the addition of the proposed project.

Table 3.3: Significantly Affected Facilities under System Intact Conditions (Summer Peak)

LIMITING ELEMENT							RATE (MVA)	LOADING %			TDF
LFNUM	LFNAM	LFKV	LTNUM	LTNAM	LTKV	LCKT		WITHOUT GI-0304	WITH GI-0304	CHANGE	
ALTW											
34015	LIME CK5	161	34016	EMERY 5	161	1	200	127.4	128.6	1.2	0.03224
MEC											
64239	FRANKLN5	161	64285	BUTLER 5	161	1	181	118.7	120.5	1.8	0.04428
64256	UNIONTP5	161	64285	BUTLER 5	161	1	181	114.3	116.1	1.8	0.04428

3.2.1.2 Impact of the GI-0304 Project on Bus Voltages

Voltage criteria violations were observed at several remote buses both with and without the proposed GI-0304 project (see Appendix B). No new voltage violations were observed and the incremental impact of the proposed project on bus voltages is negligible.

3.2.2 Summer Off-Peak Conditions

3.2.2.1 Impact of the GI-0304 Project on Facility Loadings

Table 3.4 shows the impact of the proposed GI-0304 project for summer off-peak conditions. The incremental impact of the project is negligible. The overloads listed in Table 3.4 were present prior to the addition of the proposed project.

Table 3.4: Significantly Affected Facilities under System Intact Conditions (Summer Off-Peak)

LIMITING ELEMENT							RATE (MVA)	LOADING %			TDF
LFNUM	LFNAM	LFKV	LTNUM	LTNAM	LTKV	LCKT		WITHOUT GI-0304	WITH GI-0304	CHANGE	
ALTW											
34010	HAYWARD5	161	34013	WNBAGOS5	161	1	167	119.3	120.4	1.1	0.03350
34016	EMERY 5	161	64252	FLOYD 5	161	1	217	106.6	107.5	0.9	0.03409
34020	HAZL S 5	161	34135	DUNDEE 5	161	1	167	122.4	122.9	0.5	0.03042
MEC											
64203	NW FTDG5	161	64230	POMEROY5	161	1	173	122.8	126.5	3.7	0.08696
64239	FRANKLN5	161	64285	BUTLER 5	161	1	181	147.0	148.6	1.6	0.04429
64256	UNIONTP5	161	64285	BUTLER 5	161	1	181	143.0	144.6	1.6	0.04429

3.2.2.2 Impact of the GI-0304 Project on Bus Voltages

As before, the incremental impact of the proposed GI-0304 project on bus voltages is negligible. No new voltage violations were observed. Appendix B provides a list of voltage violations under system intact conditions both with and without the GI-0304 project.

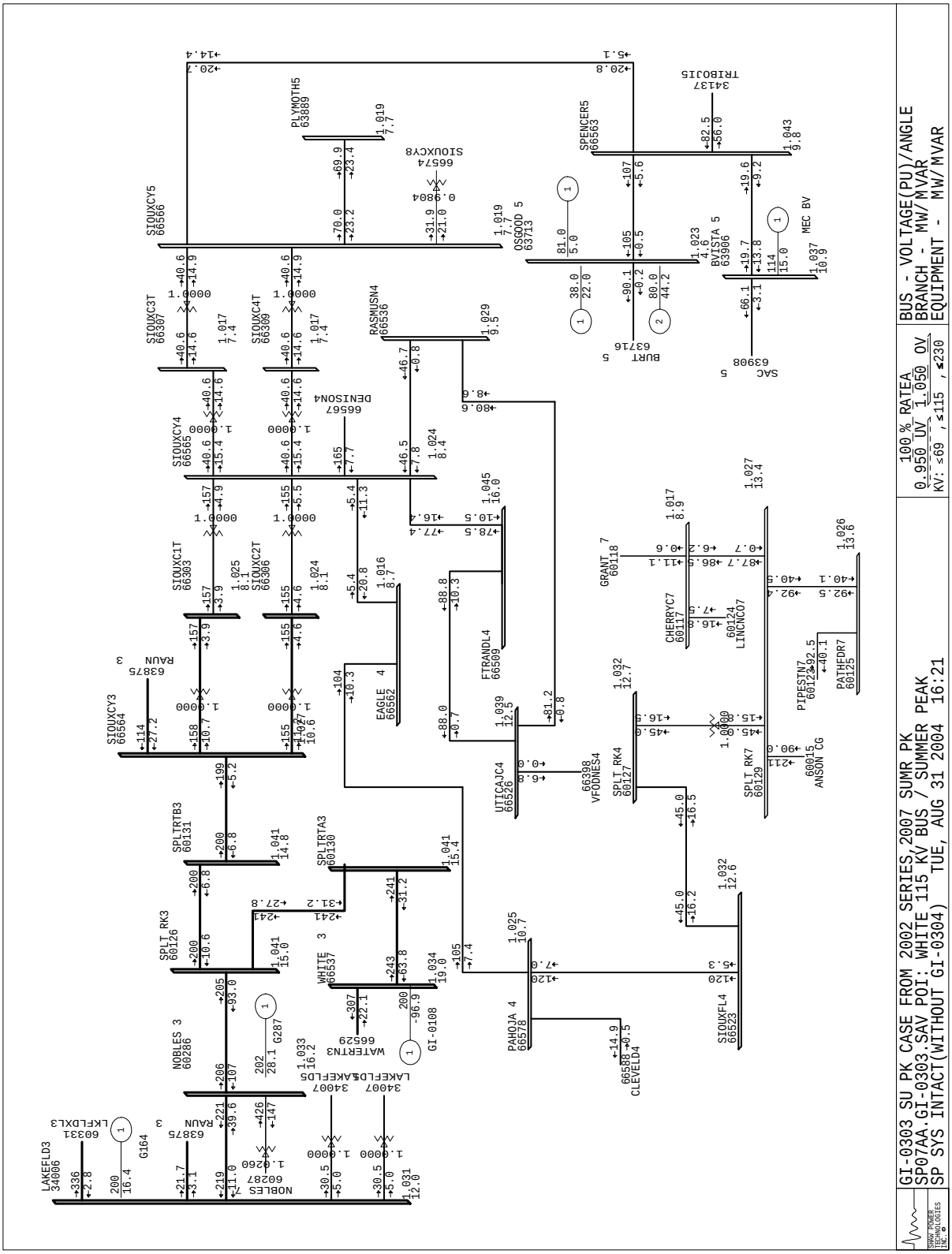

Figure 3.2: Power Flow Diagram for 2007 Summer Peak Load Conditions – Without GI-0304

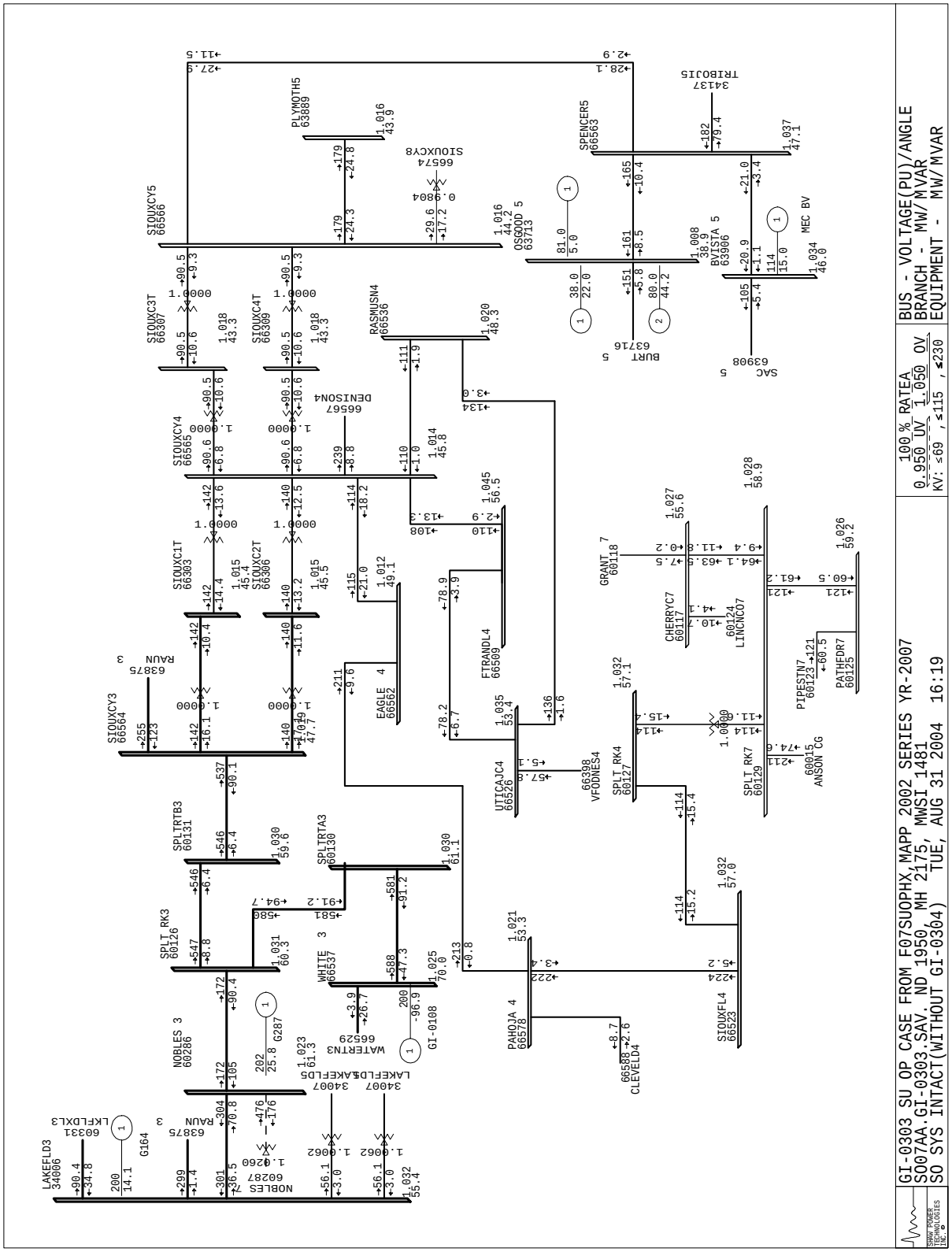

Figure 3.3: Power Flow Diagram for 2007 Summer Off-Peak Load Conditions – Without GI-0304

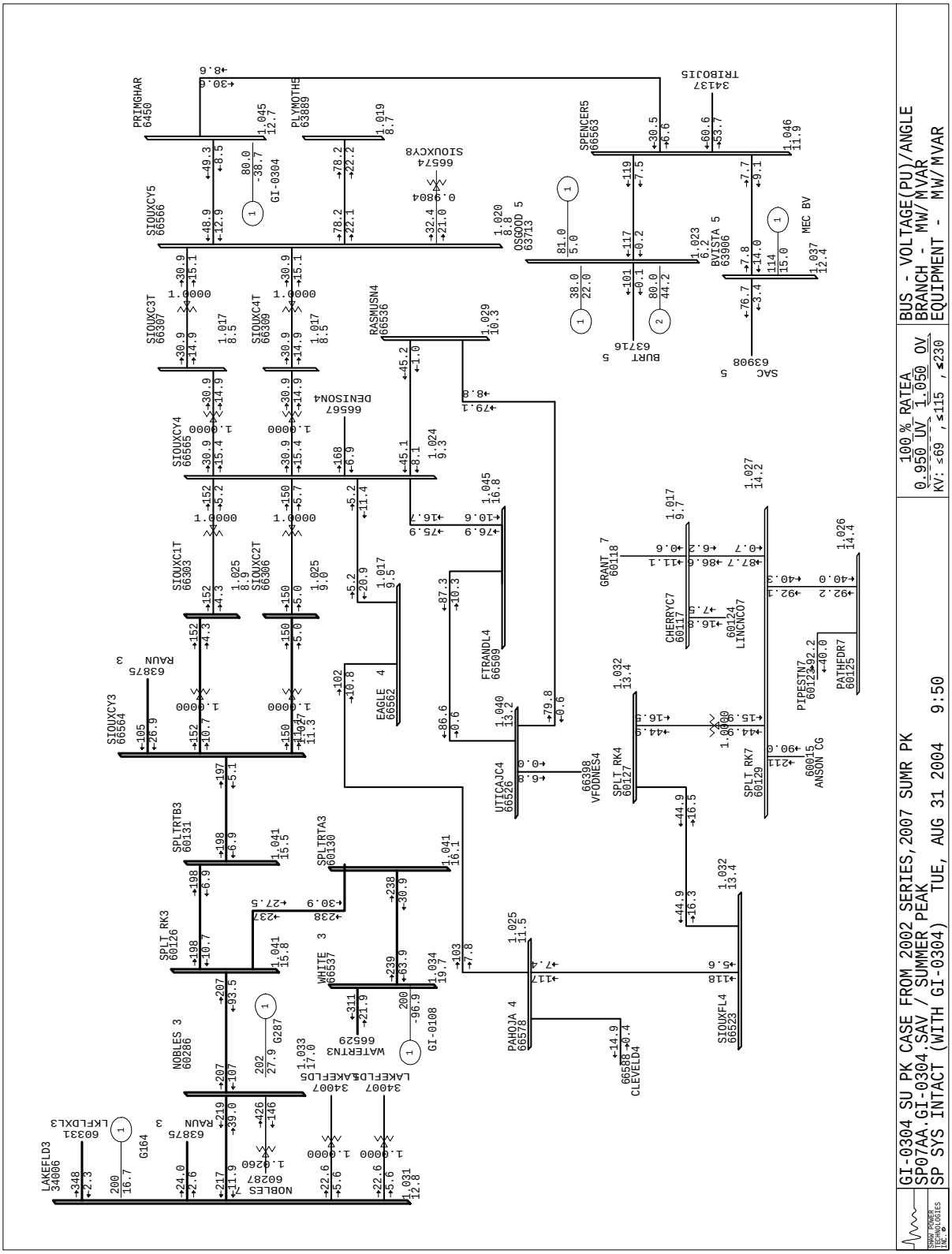

Figure 3.4: Power Flow Diagram for 2007 Summer Peak Load Conditions – With GI-0304

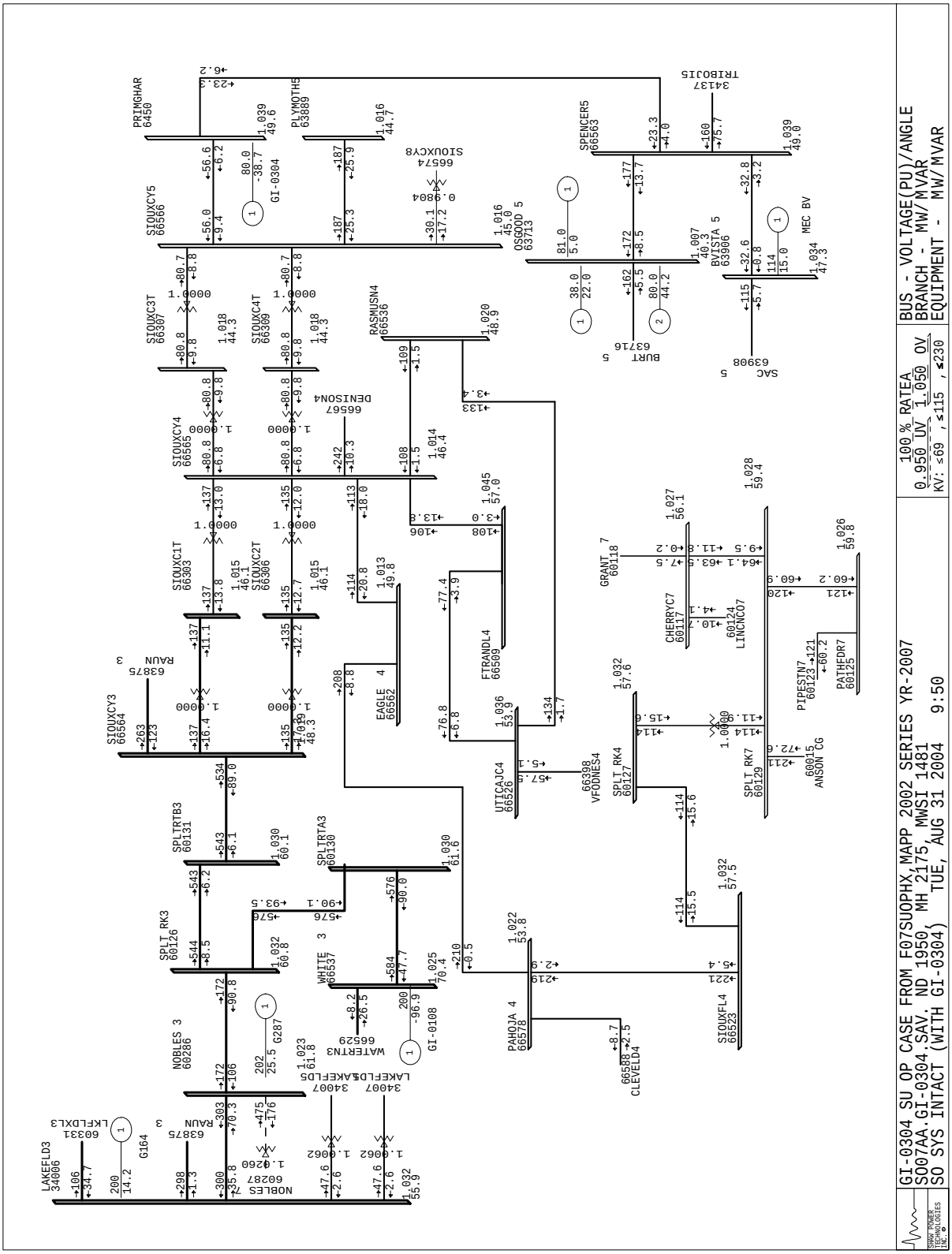

Figure 3.5: Power Flow Diagram for 2007 Summer Off-Peak Load Conditions – With GI-0304

3.3 N-1 Contingency Analysis

After establishing the system intact violations, the steady-state performance was compared by performing N-1 contingency analyses, on the summer peak and summer off-peak cases both with and without the proposed GI-0304 project. The analyses were conducted using the activity ACCC of PSS/E.

Thermal violations were flagged based on the normal facility ratings (Rate A in the powerflow case). This rating could be the continuous rating under normal conditions, or in some cases, the de-rated capacity to account for any terminal equipment constraints or constraints imposed by transmission line clearances. Also, certain overhead transmission elements may have a higher conductor rating applicable during windy conditions, when the wind farms in the vicinity would be operating at near full output. The transmission owners would therefore need to determine if the reported transmission overloads are acceptable, considering all the above aspects. As explained in Section 2.1.1, only those facilities that have a TDF greater than 2.0% have been flagged as significantly affected facilities. Bus voltages outside the range of 0.92-1.10 pu were flagged as criteria violations.

Tables 3.5 and 3.7 list the limiting elements and the associated contingencies that cause overloads, along with a comparison of the facility loadings in percentage with and without the GI-0304 project. These tables list only the most limiting contingency (one that causes highest overload) for each overloaded facility. Facility overloads were grouped into three categories. The first category consisted of all new overloads (red). The second category consisted of all pre-GI-0304 overloads that increased loading by ten percent or more (black) and the third category consisted of all pre-GI-0304 overloads that increased loading by less than ten percent (blue). The limiting elements listed in these tables are segregated based on transmission ownership information as available from PSS/E power flow model and information provided by various transmission owners. These should be reviewed by the respective transmission owners to determine whether the facilities would still be overloaded if emergency ratings were to be used instead of the normal continuous ratings.

AC contingency analysis results were post-processed to create a SCREENACCC report to compare the results obtained from the GI-0304 case vs. those obtained from the Pre-GI-0304 case (see Appendix D). The reports presented in Appendix D contain all facility overloads regardless of distribution factor and should be reviewed by the transmission owners.

The following contingencies resulted in voltage collapse, both with and without the proposed GI-0304 wind farm.

Loss of Yankee – White 115 kV Line:

The Yankee – White 115 kV line outage resulted in a voltage collapse in the Buffalo Ridge region both under Summer Peak and Summer Off-Peak load conditions. It is to be noted that the Yankee – White 115 kV line is one of the four major transmission outlets for the Buffalo Ridge area generation. There is approximately 300 MW of wind generation connected to the Yankee substation. Following the loss of the Yankee – White 115 kV line, the only remaining connection to the system for the generation at Yankee is the Yankee – Buffalo Ridge 115 kV line. This connection is not strong enough

to support the 300 MW of generation at Yankee. From MUST analysis, it was seen that the loss of this line imposes severe overloads on the remaining transmission facilities in the Buffalo Ridge area that are already overstressed.

Since the Yankee – White 115 kV line terminates at the White 345 kV substation through a dedicated 345/115 kV transformer (White 35/115 kV transformer #2), the outage of this transformer leaves the system in the same state as the loss of the Yankee – White 115 kV line.

Loss of Nobles 345/115 kV Transformer:

This transformer connects to the 345 kV paths out of the Nobles substation and is a major transmission outlet for Buffalo Ridge area generation. The loss of this transformer resulted in voltage collapse in the Buffalo Ridge region both under Summer Peak and Summer Off-Peak load conditions. This is a result of increased MW and MVAr flows on the remaining transmission facilities in the Buffalo Ridge region that are already overstressed. From MUST analysis, it was seen that the loss of this transformer imposes severe overloads on the remaining transmission facilities in the Buffalo Ridge area that are already overstressed.

Contingency BEN-GRC/SCL7:

The specified contingency BEN-GRC/SCL7 resulted in voltage collapse in the Summer Peak cases. This contingency involves the loss of strong system connection to St. Cloud and Granite City 115 kV substations (both substations are in Twin Cities area). This contingency results in a radial configuration, namely West St. Cloud-Granite City-St. Regis 115 kV with more than150 MW of load along the radial path.

3.3.1 Summer Peak Conditions

3.3.1.1 Impact of the GI-0304 Project on Facility Loadings

The incremental impact of the proposed GI-0304 project on the monitored transmission facilities is small. All facilities listed in Table 3.5 were already overloaded even prior to the addition of the proposed project.

3.3.1.2 Impact of the GI-0304 Project on Bus Voltages

Voltage violations were observed at several remote buses both with and without the proposed project. Table 3.6 lists buses that are significantly impacted. For the most part, the voltages at buses with new voltage violations are marginally close to the contingency case voltage criteria of 0.92 pu.

Table 3.5: Significantly Affected Facilities under N-1 Contingency Conditions (Summer Peak)

LIMITING ELEMENT							RATING (MVA)			CONTINGENCY	LOADING %			TDF
LFNUM	LFNAM	LFKV	LTNUM	LTNAM	LTKV	LCKT	RATEA	RATEB	RATEC		WITHOUT GI-0304	WITH GI-0304	CHANGE	
ALTW														
34007	LAKEFLD5	161	34008	FOX LK 5	161	1	160	160	160	60108 WILMART3 345 - 60331 LKFLDXL3 345 ckt 1	102.1	104.3	2.2	0.03987
34010	HAYWARD5	161	34013	WNBAGOS5	161	1	167	167	167	60108 WILMART3 345 - 60192 BLUE LK3 345 ckt 1	118.6	120.6	2.0	0.04263
34015	LIME CK5	161	34016	EMERY 5	161	1	200	200	200	60108 WILMART3 345 - 60331 LKFLDXL3 345 ckt 1	160.6	162.2	1.6	0.04104
34016	EMERY 5	161	64252	FLOYD 5	161	1	217	217	0	34015 LIME CK5 161 - 34016 EMERY 5 161 ckt 1	104.8	106.2	1.4	0.03981
MEC														
64203	NW FTDG5	161	64230	POMEROY5	161	1	173	173	173	60108 WILMART3 345 - 60331 LKFLDXL3 345 ckt 1	100.6	104.8	4.2	0.09056
64239	FRANKLN5	161	64285	BUTLER 5	161	1	181	181	181	34016 EMERY 5 161 - 64252 FLOYD 5 161 ckt 1	144.0	146.0	2.0	0.05270
64256	UNIONTP5	161	64285	BUTLER 5	161	1	181	181	181	34016 EMERY 5 161 - 64252 FLOYD 5 161 ckt 1	139.6	141.6	2.0	0.05270
XEL														
60265	LOON TP7	115	60830	EASTWD18	115	P1	310	310	310	60108 WILMART3 345 - 60192 BLUE LK3 345 ckt 1	134.7	136.2	1.5	0.05024
60107	W FARIB7	115	60265	LOON TP7	115	C1	310	310	341	60108 WILMART3 345 - 60192 BLUE LK3 345 ckt 1	11.00	111.1	1.1	0.04066
60150	MNVLTAP4	230	66550	GRANITF4	230	1	318	350	318	60108 WILMART3 345 - 60331 LKFLDXL3 345 ckt 1	112.4	113.1	0.7	0.02601
WAPA														
66236	WATERT1T	345	66530	WATERTN4	345	1	400	400	500	60108 WILMART3 345 - 60331 LKFLDXL3 345 ckt 1	109.3	110.1	0.8	0.04506
66236	WATERT1T	345	66529	WATERTN3	230	1	400	400	500	60108 WILMART3 345 - 60331 LKFLDXL3 345 ckt 1	109.1	109.9	0.8	0.04506

Note:
The following contingencies resulted in voltage collapse both with and without the proposed GI-0304 wind farm:
1. Yankee-White 115 kV line (6001 [YANKEE 7115.00] TO BUS 66337 [WHITE2 7115.00] CKT 1)
2. White 345/115 kV Transformer #2 (66337 [WHITE2 7115.00] TO BUS 66537 [WHITE 3345.00] CKT P2)
3. Nobles Transformer (60286 [NOBLES 3345.00] TO BUS 60287 [NOBLES 7115.00] CKT C1)
4. Contingency BEN-GRC/SCL7

Table 3.6: N-1 Contingency Case Voltage Violations (Summer Peak)

NUM	NAM	KV	CONTINGENCY	V (pu)		
				WITHOUT GI-0304	WITH GI-0304	CHANGE
34009	WINBAGO5	161	60108 WILMART3 345 - 60331 LKFLDXL3 345 ckt 1	-	0.9199	NEW
34013	WNBAGOS5	161	60108 WILMART3 345 - 60331 LKFLDXL3 345 ckt 1	-	0.9199	NEW
34242	JACKN M8	69	34217 WRTHNGT8 69 - 62722 WRT WTP8 69 ckt 1	-	0.9196	NEW
34242	JACKN M8	69	34217 WRTHNGT8 69 - 34218 WORTHMN8 69 ckt 1	-	0.9197	NEW
60693	SACRDHT8	69	60108 WILMART3 345 - 60192 BLUE LK3 345 ckt 1	-	0.9198	NEW
60745	SEDAN 8	69	63222 ALEXAND7 115 - 67452 ALEXSS 115 ckt 1	-	0.9192	NEW
60748	WESTPRT8	69	63219 GRANTCO7 115 - 63220 ELBOWLK7 115 ckt 1	-	0.9198	NEW
60752	BLCKOAK8	69	60686 E MELRO8 69 - 60754 MELRSMU8 69 ckt 1	-	0.9198	NEW
60753	MEIRGRV8	69	60163 WST CLD7 115 - 60732 WST CLD8 69 ckt 1	-	0.9199	NEW
60754	MELRSMU8	69	60758 JOHNS U8 69 - 62831 BRCKWTP8 69 ckt 1	-	0.9197	NEW
60755	FREEPRT8	69	60759 STJOSPH8 69 - 61189 WATAB 8 69 ckt 1	-	0.9198	NEW
62277	DUELM 8	69	62965 ELKRWS18 69 - 62967 ELKRWS28 69 ckt 1	-	0.9196	NEW
62366	ENTRPRS8	69	34217 WRTHNGT8 69 - 34218 WORTHMN8 69 ckt 1	-	0.9178	NEW
62752	MLTN TP7	115	60108 WILMART3 345 - 60331 LKFLDXL3 345 ckt 1	-	0.9199	NEW
62753	MILTONA7	115	60108 WILMART3 345 - 60331 LKFLDXL3 345 ckt 1	-	0.9199	NEW
62932	GOOSELK8	69	62934 HOWARDL8 69 - 62943 VICTOR 8 69 ckt 1	-	0.9198	NEW
63050	WILLMAR4	230	60108 WILMART3 345 - 60192 BLUE LK3 345 ckt 1	-	0.9176	NEW
63221	BRANDN 7	115	63223 HOOT LK7 115 - 63324 HOOTLK3G 13.8 ckt 1	-	0.9195	NEW
67454	ALEXPLDM	115	60108 WILMART3 345 - 60192 BLUE LK3 345 ckt 1	-	0.9190	NEW

3.3.2 Summer Off-Peak Conditions

3.3.2.1 Impact of the GI-0304 Project on Facility Loadings

Impact on ALTW and GRE Facilities

The incremental impact of the GI-0304 project on ALTW and GRE facilities listed in Table 3.7 is small and these facilities were already overloaded even prior to the addition of the proposed project.

Impact on MEC Facilities

The overload on the NW Ft. Dodge – Pomeroy 161 kV line is aggravated following the loss of the 161 kV line between Spencer and Osgood. The post contingency loadings on the line are 134.6% (without GI-0304) and 139.1 (with GI-0304). The incremental impact of the proposed project on the other MEC facilities listed in Table 3.7 is small.

Impact on MP Facilities

A new marginal overload was recorded on the Arrowhead –Forbes 230 kV line following contingency "050 1". The post contingency loadings on the line are 99.3% (without GI-0304) and 101.6% (with GI-0304).

Impact on XEL Facilities

The addition of the proposed project resulted in no new overloads. The incremental impact of the proposed project on previously overloaded facilities is small.

Impact on WAPA Facilities

The interconnection of the proposed GI-0304 project aggravates the post-contingency loadings on following transmission facilities following the loss of the Sioux City – Plymouth 161 kV line:

- The loading on the underlying Sioux City – Plymouth 69 kV line is 122.4% of the 45 MVA normal rating. The corresponding loading without GI-0304 was 118%.
- A marginal post-contingency loading of 104.9% was recorded on the Sioux City 161/69 kV transformer. The corresponding loading without GI-0304 was 101.6%.

The impact of the GI-0304 project on other WAPA facilities listed in Table 3.7 is small.

3.3.1.2 Impact of the GI-0304 Project on Bus Voltages

Table 3.8 lists buses with new and Pre-GI-0304 voltage violations where the change in the voltage is greater than 0.01 pu.

Table 3.7: Significantly Affected Facilities under N-1 Contingency Conditions (Summer Off-Peak)

LIMITING ELEMENT							RATING			CONTINGENCY	LOADING %			TDF
LFNUM	LFNAM	LFKV	LTNUM	LTNAM	LTKV	LCKT	RATEA	RATEB	RATEC		WITHOUT GI-0304	WITH GI-0304	CHANGE	
ALTW														
34054	GR JCT 5	161	34058	PERRY 5	161	1	112	112	112	34054 GR JCT 5 161 - 34529 GRJCT5Y 161 ckt 1	111.4	113.5	2.1	0.03826
34015	LIME CK5	161	34016	EMERY 5	161	1	200	200	200	34016 EMERY 5 161 - 64252 FLOYD 5 161 ckt 1	136.5	138.5	2.0	0.04359
34054	GR JCT 5	161	63771	DRAGER 5	161	1	140	140	140	66567 DENISON4 230 - 66561 DENISON5 161 ckt 1	112.7	114.6	1.9	0.04304
34066	M-TOWN 7	115	34085	BLRSTWN7	115	1	60	60	60	34018 HAZLTON3 345 - 34093 ARNOLD 3 345 ckt 1	116.6	118.4	1.8	0.02047
34051	TOLEDO 7	115	34083	BL.PLN.7	115	1	59	59	59	34018 HAZLTON3 345 - 34093 ARNOLD 3 345 ckt 1	104.9	106.5	1.6	0.02003
34020	HAZL S 5	161	34135	DUNDEE 5	161	1	167	167	167	34018 HAZLTON3 345 - 34093 ARNOLD 3 345 ckt 1	161.7	163.1	1.4	0.06663
34185	POWESHK5	161	34191	REASNOR5	161	1	167	167	167	34189 OTTUMWA5 161 - 34146 OTTUMW1G 24 ckt 1	105.7	107.1	1.4	0.0476
34051	TOLEDO 7	115	34066	M-TOWN 7	115	1	77	77	77	34018 HAZLTON3 345 - 34093 ARNOLD 3 345 ckt 1	107.1	108.3	1.2	0.02003
34016	EMERY 5	161	64252	FLOYD 5	161	1	217	217	0	34018 HAZLTON3 345 - 60102 ADAMS 3 345 ckt 1	133.3	134.5	1.2	0.04823
34129	LIBERTY5	161	34135	DUNDEE 5	161	1	167	167	167	34018 HAZLTON3 345 - 34093 ARNOLD 3 345 ckt 1	112.4	113.2	0.8	0.04406
GRE														
62980	MCLEOD 4	230	63054	PANTHER4	230	1	319	388	426	60108 WILMART3 345 - 60192 BLUE LK3 345 ckt 1	113.2	114.2	1.0	0.02479
MEC														
64203	NW FTDG5	161	64230	POMEROY5	161	1	173	173	173	66563 SPENCER5 161 - 63713 OSGOOD 5 161 ckt 1	134.6	139.1	4.5	0.10469
64239	FRANKLN5	161	64285	BUTLER 5	161	1	181	181	181	34016 EMERY 5 161 - 64252 FLOYD 5 161 ckt 1	179.5	181.4	1.9	0.0527
64256	UNIONTP5	161	64285	BUTLER 5	161	1	181	181	181	34016 EMERY 5 161 - 64252 FLOYD 5 161 ckt 1	175.5	177.3	1.8	0.0527
64203	NW FTDG5	161	64205	FT.DODG5	161	1	167	187	167	34054 GR JCT 5 161 - 63771 DRAGER 5 161 ckt 1	102.2	103.9	1.7	0.04194
64250	BLKHAWK5	161	64256	UNIONTP5	161	1	181	181	181	34016 EMERY 5 161 - 64252 FLOYD 5 161 ckt 1	118.5	120.1	1.6	0.0472
MP														
61615	ARROWHD4	230	61624	FORBES 4	230	1	320	370	352	050 1	99.3	101.6	2.3	0.02146
XEL														
60265	LOON TP7	115	60830	EASTWD18	115	P1	310	310	310	60108 WILMART3 345 - 60192 BLUE LK3 345 ckt 1	129.7	131.6	1.9	0.05025
60107	W FARIB7	115	60265	LOON TP7	115	C1	310	310	341	60108 WILMART3 345 - 60192 BLUE LK3 345 ckt 1	105.1	106.6	1.5	0.04066
60150	MNVLTAP4	230	63054	PANTHER4	230	1	388	388	427	60108 WILMART3 345 - 60331 LKFLDXL3 345 ckt 1	103.5	104.5	1.0	0.02958
61952	S FARIB5	161	60107	W FARIB7	115	1	173	257	190	PRI-BYN/RRK3	161.5	161.8	0.3	0.02627
61948	BYRON 5	161	61964	OWATNNA5	161	1	273	273	300	PRI-BYN/RRK3	123.1	123.4	0.3	0.03569
61952	S FARIB5	161	61964	OWATNNA5	161	1	269	269	296	PRI-BYN/RRK3	107.8	108.0	0.2	0.02627
60173	ROSEAUN2	500	60174	ROSEAUS2	500	1	1732	1732	1905	60108 WILMART3 345 - 60192 BLUE LK3 345 ckt 1	104.3	104.5	0.2	0.02309
61948	BYRON 5	161	61906	MAPLE LF	161	1	372	372	338	61950 BYRON 3 345 - 63032 PL VLLY3 345 ckt 1	139.7	139.8	0.1	0.04082
60173	ROSEAUN2	500	67564	DORSEY 2	500	1	1610	2094	1610	60108 WILMART3 345 - 60192 BLUE LK3 345 ckt 1	108.1	108.2	0.1	0.02309

LIMITING ELEMENT							RATING			CONTINGENCY	LOADING %			TDF
LFNUM	LFNAM	LFKV	LTNUM	LTNAM	LTKV	LCKT	RATEA	RATEB	RATEC		WITHOUT GI-0304	WITH GI-0304	CHANGE	
WAPA														
66574	SIOUXCY8	69	63890	PLYMOTH8	69	1	45	64	50	66566 SIOUXCY5 161 - 63889 PLYMOTH5 161 ckt 1	118.0	122.4	4.4	0.02759
66566	SIOUXCY5	161	66574	SIOUXCY8	69	1	75	75	94	66566 SIOUXCY5 161 - 63889 PLYMOTH5 161 ckt 1	101.6	104.9	3.3	0.03295
60150	MNVLTAP4	230	66550	GRANITF4	230	1	318	350	318	60108 WILMART3 345 - 60331 LKFLDXL3 345 ckt 1	121.0	122.2	1.2	0.02602
66565	SIOUXCY4	230	66567	DENISON4	230	1	240	440	264	66564 SIOUXCY3 345 - 63875 RAUN 3 345 ckt 1	106.3	107.4	1.1	0.04337

Note:
The following contingencies resulted in voltage collapse both with and without the proposed GI-0304 wind farm:
1. Yankee-White 115 kV line (6001 [YANKEE 7115.00] TO BUS 66337 [WHITE2 7115.00] CKT 1)
2. White 345/115 kV Transformer #2 (66337 [WHITE2 7115.00] TO BUS 66537 [WHITE 3345.00] CKT P2)
3.Nobles Transformer (60286 [NOBLES 3345.00] TO BUS 60287 [NOBLES 7115.00] CKT C1)

Table 3.8: N-1 Contingency Case Voltage Violations (Summer Off-Peak)

NUM	NAM	KV	CONTINGENCY	V (pu)		
				WITHOUT GI-0304	WITH GI-0304	CHANGE
34009	WINBAGO5	161	60105 PR ISLD3 345 - 61950 BYRON 3 345 ckt 1	-	0.9174	NEW
34013	WNBAGOS5	161	60105 PR ISLD3 345 - 61950 BYRON 3 345 ckt 1	-	0.9174	NEW
34265	WALTERS8	69	60105 PR ISLD3 345 - 61950 BYRON 3 345 ckt 1	0.8995	0.9158	0.0163
34285	ALDEN J8	69	60105 PR ISLD3 345 - 61950 BYRON 3 345 ckt 1	0.8852	0.8971	0.0119
34286	ALEAWST8	69	34287 SBRDWAY8 69 - 34290 FARMSTD8 69 ckt 1	-	0.9195	NEW
34288	ALEA NW8	69	60102 ADAMS 3 345 - 63032 PL VLLY3 345 ckt 1	-	0.9182	NEW
34290	FARMSTD8	69	34010 HAYWARD5 161 - 34294 HAYWD#28 69 ckt 1	-	0.9199	NEW
34295	CO LINE8	69	60108 WILMART3 345 - 60192 BLUE LK3 345 ckt 1	-	0.9187	NEW
34305	GLENVIL8	69	34010 HAYWARD5 161 - 34293 HAYWD#18 69 ckt 1	-	0.9198	NEW
60744	BROOTEN8	69	60747 VILLARD8 69 - 62756 LEVEN 8 69 ckt 1	-	0.9185	NEW
60780	CLRKGNS8	69	60108 WILMART3 345 - 60331 LKFLDXL3 345 ckt 1	-	0.9189	NEW
62137	BCKRNSP8	69	62965 ELKRWS18 69 - 62967 ELKRWS28 69 ckt 1	-	0.9195	NEW
62271	LONGSDG8	69	62149 N ER TP8 69 - 62968 ELKRNTH8 69 ckt 1	-	0.9199	NEW
62880	MATAWAN8	69	60304 EAU CL 3 345 - 39244 ARP 345 345 ckt 1	-	0.9161	NEW
62949	BLKLKTP8	69	62938 OTSEGO 8 69 - 63020 ELK RIV8 69 ckt 1	-	0.9196	NEW
62981	MCLEOD 7	115	62982 HUTCHMN7 115 - 62983 HUTCH3M7 115 ckt 1	-	0.9192	NEW
64285	BUTLER 5	161	34018 HAZLTON3 345 - 60102 ADAMS 3 345 ckt 1	-	0.9171	NEW
69054	SOUTH SH	69	60108 WILMART3 345 - 60192 BLUE LK3 345 ckt 1	-	0.9177	NEW

3.4 Impact of GI-0304 Project on Transmission Facilities – Summary

In summary, the interconnection of the proposed GI-0304 project impacted several transmission facilities and resulted in steady-state criteria violations. These violations may limit the ability of the project to inject power into the transmission system and should therefore be resolved.

The study ad hoc group indicated that resolution of the steady-state criteria violations is beyond the scope of these interconnection studies and that reinforcement analysis would be performed as part of the delivery studies, should the proposed project request a delivery of service.

3.5 Constrained Interface Analysis

The purpose of this task was to determine if the GI-0304 wind farm would adversely impact the regional constrained interfaces (PTDF and OTDF interfaces) of the MAPP system. The analysis was performed using the NMORWG DFCALC IPLAN program on the 2007 Summer Peak power flow models with and without GI-0304 (See Section 3.1).

The interface definitions for this analysis were provided by the study ad hoc group and are based on the 3/12/04 postings on the MAPP OASIS. The interface data definition file provided by the study ad hoc group is compatible with the 2003/2004 Series MAPP cases. Minor changes were made to this file for compatibility with the 2002 Series MAPP cases (as noted in Section 3.1, the powerflow models used in this study are based on the 2002 Series MAPP cases).

Table 3.9 shows the interface flows in the cases without and with the GI-0304 project. Also shown are the total transfer capabilities (TTCs) for the various interfaces for the 2007 Summer timeframe as obtained from the MAPP OASIS[3].

This table shows the interface flows for cases with and without the GI-0304 wind farm, as well as the transfer distribution factor (in percent) for the 80.0 MW power transfer from the proposed project to the sink. As shown in the table, the proposed project adversely impacts[4] the following interfaces: COOPER_S: 12.4%, ECL-ARP: 5.7%, FTCAL_S: 16.5%, MWSI: 12.6%, PRI-BYN: 6.9%, QUADCITY_W: 19.7%, LKFFOXLKGWLM: 3.5%, SPETRILAKRAU: 26.9%. Mitigation may be required if it is determined that there is insufficient or no available transfer capability (ATC) on the affected MAPP constrained interfaces. This is an issue that should be addressed with the system impact study for transmission service should the proposed GI-0304 project go forward. The DFCALC output is included in the Appendix F.

[3] http://toinfo.oasis.mapp.org/documents/atcdir/plan/atccomp.txt

[4] As per MAPP Design Review Subcommittee criteria (see MAPP DRS document entitled "*Steady-State Facility & Constrained Path Impact Determination Requirements & Screening Guidelines for Study Submissions"* approved July 18, 2003), the minimum PTDF threshold for MAPP PTDF Interfaces is 5% and the minimum MW impact threshold is 1 MW or 1% of the impacted Path TTC (whichever is smaller). PTDF Interfaces that have PTDFs >= 5% -and- a MW impact >= minimum MW impact threshold are considered significantly impacted.

For OTDF Interfaces, the minimum OTDF threshold is 3% and the minimum impact threshold is 1 MW or 1% of the impacted Path TTC (whichever is smaller). OTDF Interfaces that have OTDFs >= 3% -and- a MW impact >= minimum MW impact threshold are considered significantly impacted.

Table 3.9: Impact of the GI-0304 Project on MAPP Constrained Interfaces

INTERFACE	TTC (MW)	WITHOUT GI-0304 (MW)	WITH GI-0304 (MW)	CHANGE (MW)	TDF
PTDF INTERFACES					
COOPER_S	1190	517.3	527.2	9.9	12.4%
ECL-ARP	790	238.4	243.0	4.6	5.7%
FTCAL_S	776	491.2	504.5	13.2	16.5%
GGS	1800	1283.5	1284.0	0.6	0.7%
GRIS_LNC	960	260.5	261.2	0.7	0.8%
LKM-WFB	139	-220.6	-220.9	-0.3	-0.4%
MHEX_N+	N/A	-1554.4	-1554.5	0.0	0.0%
MHEX_S+	N/A	1580.7	1580.8	0.1	0.1%
MH_SPC_E+	N/A	-72.1	-72.1	0.0	0.0%
MH_SPC_W+	N/A	73.6	73.6	0.0	0.0%
MNTZUMA_W	587	-456.5	-474.6	-18.0	-22.5%
MWSI	1480	256.7	266.8	10.1	12.6%
NDDC	428	-19.8	-19.8	0.0	0.0%
NDEX	2150	388.2	387.7	-0.5	-0.6%
PRI-BYN	835	18.2	23.8	5.5	6.9%
QUADCITY_W	1400	283.2	299.0	15.8	19.7%
WNE_WKS	455	348.9	351.0	2.0	2.5%
Y2DC	200	0.3	0.3	0.0	0.0%
OTDF INTERFACES					
ARNVINARNHAZ	276	-0.6	-6.1	-5.6	-6.9%
DAVCALQUARCK	223	128.3	126.2	-2.2	-2.7%
LACWGRLACSTI	1251	864.4	862.3	-2.1	-2.6%
LKFFOXLKGWLM	160	166.3	169.1	2.8	3.5%
LORTRKWEMPAD	200	78.2	76.0	-2.2	-2.7%
POWREAMTZBON	195	-131.0	-136.7	-5.6	-7.0%
S1226TEKAMAH	256	-59.3	-64.6	-5.3	-6.6%
SALXFMWEMPAD	336	184.0	181.3	-2.6	-3.3%
SPETRILAKRAU	195	-85.8	-64.3	21.5	26.9%

4. STABILITY ANALYSIS

4.1 Introduction

The purpose of this analysis was to determine whether the MAPP system would meet stability criteria following commissioning of the proposed GI-0304 wind farm. To that end, local and regional contingencies were simulated under summer off-peak conditions with maximum simultaneous NDEX (≈1950 MW), MHEX (≈2175 MW) and MWSI (≈1480 MW) transfer levels.

The following steps were taken:

1. First, a stability model was developed to represent system conditions before the addition of the proposed GI-0304 plant. Power flow models and snapshots developed for MISO/WAPA/GRE Group 2 studies were used as a basis for developing the models for this study. The Pre-Group 2 model with prior queued Group 2 generation (G272, G278, G287 and GI-0303) constitutes the Pre-GI-0304 model. Details of model development are provided in Appendix G.

2. Next, the proposed plant was added to the Pre-GI-0304 case to create the GI-0304 case. The plant was redispatched utilizing the same guidelines as in the steady-state analysis (i.e., by scaling down MEC generation in Eastern Iowa).

   The proposed wind farm will comprise wind turbine generators based on variable rotor resistance induction generator technology (Gamesa G80). These generators are a class of conventional induction generators where instead of a cage rotor, an external resistance is introduced in the rotor circuit to vary the effective torque-speed curve of the machine. WAPA provided a PSS/E stability model for the Gamesa G80 for use in this study. The power flow parameters used for this model were based on available information and the default parameters embedded in the setup files for the model. The stability model parameters were based on default data provided with the PSS/E Gamesa G80 wind turbine model. The power flow and stability model representations for the GI-0304 plant for stability studies are shown in Appendix H. The stability data for the GI-0304 plant was appended to the Pre-GI-0304 snapshot.

3. Finally, stability analysis was performed on the GI-0304 case to determine the stability of new and existing units for various faults in the local area, as well as for regionally critical faults. If any faults resulted in stability problems, the faults were repeated without the GI-0304 plant to check if the problems existed before the addition of the plant.

Stability analysis is generally performed after resolving all the thermal and voltage violations in the base power flow cases. However, it is important to note that the stability analysis portion of this study was conducted despite the presence of numerous steady-state criteria violations in the power flow cases both under system intact and N-1 contingency conditions (see Section 3 of this report). In addition, there were several regional stability criteria violations in the pre-project

base cases. The study ad hoc group indicated that the stability studies should proceed regardless of any criteria violations.

The studies were conducted utilizing the April 2004 MS Windows Version of the NMORWG Stability Package.

Study results from the Coordinated MISO/WAPA/GRE Interconnection Studies (Group 2) were used to the extent possible in order to incorporate the details as well as utilize readily available results.

4.2 Impact on Local Stability

The analysis of the impact of the proposed GI-0304 plant on local stability focused on the following two issues:

- To determine the stability of the proposed plant for disturbances near the point of interconnection.
- To determine if the proposed plant would adversely impact the stability of nearby generation facilities.

The disturbances simulated in this assessment are listed in Table 4.1. Various other faults were simulated as part of the MISO/WAPA/GRE Coordinated Interconnection Studies. However, since most of these faults are remote from the point of interconnection of the proposed GI-0304 wind farm, they were not simulated as part of the present study. A detailed description of these faults and the results will be provided in the Group 2 Study Report.

As in the Group 2 stability assessment, no delayed fault clearing scenarios were considered. Also, no prior-outage scenarios were evaluated.

Table 4.1: List of Disturbances Simulated for Local Area Stability Analysis

Fault Name	Disturbance Title 1 Disturbance Title 2
xo3	6 cycle 3 phase fault at GI-0304 161 Clear the GI-0304 - Spencer 161 kV line 66602 66563 1
xp3	6 cycle 3 phase fault at GI-0304 161 Clear the GI-0304 - Sioux City 161 kV line 66602 66566 1

4.2.1 Local Stability Simulation Results

Table 4.2 summarizes the results.

Simulation summary tables and plots for the simulated fault scenarios are presented in Appendix J.

As shown in Table 4.2, faults at the GI-0304 POI *(xo3, xp3)* resulted in the GI-0304 plant tripping offline due to undervoltage. Two nearby wind farms (MEC

Buena Vista (114 MW) and Flying Cloud (43 MW)) also tripped on undervoltages. However, undervoltage tripping schemes should not be relied upon for maintaining system stability. These faults were repeated with undervoltage protection disabled (the faults have '-nt' appended to the fault ID). If the undervoltage protection is disabled, GI-0304 stays online and no problems occur. This indicates that whether or not undervoltage tripping of plant GI-0304 occurs, the system will remain stable.

In summary, it can be concluded that the addition of proposed GI-0304 wind farm does not adversely impact local area stability.

Table 4.2: Local Stability Analysis Results

Fault Name	Disturbance Title 1 Disturbance Title 2	Without GI-0304	With GI-0304
Faults at 161kV Buses near Point of Interconnection			
xo3	6 cycle 3 phase fault at GI-0304 161 Clear the GI-0304 - Spencer 161 kV line 66602 66563 1	Not Tested	91008 [MEC BV 0.5750] TRIPPED AT TIME = 0.3000 91001 [FLYCLD 0.5750] TRIPPED AT TIME = 0.3417 **VBDCN AT BUS 91056 [GI-0304 G1.690]** **BUS 91056 DISCONNECTED AT TIME = 0.342** No transient voltage violations No unstable generators
xo3-nt	same as x03 with undervoltage protection disabled	Not Tested	OK
xp3	6 cycle 3 phase fault at GI-0304 161 Clear the GI-0304 - Sioux City 161 kV line 66602 66566 1	Not Tested	91008 [MEC BV 0.5750] TRIPPED AT TIME = 0.3000 91001 [FLYCLD 0.5750] TRIPPED AT TIME = 0.3417 **VBDCN AT BUS 91056 [GI-0304 G1.690]** **BUS 91056 DISCONNECTED AT TIME = 0.342** No transient voltage violations No unstable generators
xp3-nt	same as xp3, with undervoltage protection disabled	Not Tested	OK

4.3 Impact on Regional Stability

The objective of the regional stability assessment was to determine if the proposed GI-0304 plant would impact the regional stability performance of the bulk power system.

Disturbances critical to regional stability are listed in Table 4.3. These disturbances were already simulated for determining the combined impact of the Group 2 projects on regional stability performance. The only regional stability concerns that were noted in the Group 2 stability assessment were criteria violations following faults *nbz, nmz, ei2* and *vt3.* Therefore, the regional stability assessment for the interconnection of the GI-0304 wind farm was limited to investigating these four disturbances.

Table 4.4 summarizes the results. Simulation summary tables and plots for selected fault scenarios are presented in Appendix J.

Faults *nbz* and *nmz* resulted in significant transient undervoltage violations at several buses West and Northwest of the Twin Cities. These voltage depressions were also seen prior to the addition of the proposed GI-0304 wind farm. Undervoltage violations were also observed in this region following fault *ei2* (though not as widespread as *nbz* and *nmz*). As shown in Table 4.4, the Willmar 115 kV and McLeod 230 kV substations had the worst voltage depressions. The impact of the proposed project on the voltages at these substations following faults *nmz* and *ei2* is summarized below:

nmz:

Willmar 115 kV: 0.5916 pu (without GI-0304) and 0.5840 pu (with GI-0304)
McLeod 230 kV: 0.6099 pu (without GI-0304) and 0.6025 pu (with GI-0304)

ei2:

Willmar 115 kV: 0.6866 pu (without GI-0304) and 0.6796 pu (with GI-0304)
McLeod 230 kV: 0.6989 pu (without GI-0304) and 0.6924 pu (with GI-0304)

The differences observed with and without the project are less than 0.01 pu, and therefore are not significant. However, as the system performance is unacceptable in the pre-project models, the ultimate incremental impact of this project cannot be fully quantified at the present time. Additional sensitivity work will need to be performed once the impacts of the prior queued generation are resolved, to ensure that transient voltage criteria is met.

It can be concluded that the interconnection of the GI-0304 plant likely does not further degrade regional stability of the bulk power system.

Table 4.3: Disturbances Critical to Regional Stability

Fault Name	Disturbance Title 1 Disturbance Title 2
ag1	4 cy slgf @ l.old 345 on ftthomp line, lo brkr 2692 stk clr @ 11 cy by tripping fltd line
ei2	Permanent bipole fault on the CU dc line both coal creek units tripped at 0.28 sec
mqs	slgbf fault at sherco on unit #3 trip sherco unit #3 shc-ben 345 kv and ben 345/230 kv
mss	slgbf fault at sherco on coon creek #1 line trip sherco to coon creek 345 kv and coon creek 345/115 kv
msz	Three-phase fault at Sherco on Sherco-Coon Creek #1 345 kV line
mts	slgbf fault at monticello with 8n6 stuck trip monticello to elm creek
mtz	Three-phase fault at Monticello on Monticello-Parkers Lake 345 kV line
nbz	4 cycle, three phase fault at chisago county trip f601c cross trip d602f, use new 100% reduction init from chisago
nmz	4 cycle, three phase fault at chisago county trip f601c cross trip d602f, use new 100% reduction init from chisago **do not trip Forbes SVS**
pcs	slg fault at king-eau claire line with a breaker failure at king trips king-ecl,ecl-arp,and ask-chi line
pct	trip of ask-ecl-arp without a fault trips ask-ecl-arp 345 kv line
pys	14 cycle slg at at prairie island trip pri-byn line
pyt	trip of pri-byn without a fault trips pri-byn 345 kv line
taz	Three-phase fault at Sherco on Sherco-Coon Creek #2 345 kV line
tbz	Three-phase fault at Coon Creek on Coon Creek -Dickinson 345 kV line
tcz	Three-phase fault at Dickenson on Dickenson - Parkers lake 345 kV line
tkz	Three-phase fault at King on King -Eau Claire - Arpin 345 kV line
vt3	4 cycle 3 phase fault at LGS 345 Clear the LGS-Wilmarth 345 kV line 60331 60108 1

Table 4.4: Regional Stability Analysis Results

Fault Name	Disturbance Title 1 Disturbance Title 2	Without GI-0304	With GI-0304
Regional Faults			
ei2	Permanent bipole fault on the CU dc line both coal creek units tripped at 0.28 sec	**Transient Undervoltages** 62425 [WILLMAR7] 0.69	**Transient Undervoltages** 62425 [WILLMAR7] 0.68 **62980 [MCLEOD 4] 0.69**
vt3	4 cycle 3 phase fault at LGS 345 Clear the LGS-Wilmarth 345 kV line 60331 60108 1	OK	OK
nbz	4 cycle, three phase fault at chisago county trip f601c cross trip d602f, use new 100% reduction init from chisago	**Transient Undervoltages** 62425 [WILLMAR7] 0.68 61617 [MUDLAKE4] 0.72 61648 [PEQUOT 7] 0.73 61612 [RIVERTN4] 0.73 62175 [DEWING] 0.73 61649 [BLNCHRD7] 0.74 61650 [LITTLEF7] 0.74 +more	**Transient Undervoltages** 62425 [WILLMAR7] 0.68 61617 [MUDLAKE4] 0.72 61612 [RIVERTN4] 0.73 61648 [PEQUOT 7] 0.73 61650 [LITTLEF7] 0.73 62175 [DEWING] 0.74 61611 [WINGRIV4] 0.74 +more
nmz	4 cycle, three phase fault at chisago county trip f601c cross trip d602f, use new 100% reduction init from chisago **do not trip Forbes SVS**	**Transient Undervoltages** 62425 [WILLMAR7] 0.65 62980 [MCLEOD 4] 0.67 63054 [PANTHER4] 0.68 60898 [GLENCOE] 0.68 62981 [MCLEOD 7] 0.69 61617 [MUDLAKE4] 0.72 61647 [LONG PR7] 0.72 +more	**Transient Undervoltages** 62425 [WILLMAR7] 0.65 62980 [MCLEOD 4] 0.67 63054 [PANTHER4] 0.68 60898 [GLENCOE] 0.68 62981 [MCLEOD 7] 0.69 61617 [MUDLAKE4] 0.72 61647 [LONG PR7] 0.72 +more

4.4 Summary of GI-0304 Stability Study

The significant results are as follows:

- Local area stability assessment indicates that the proposed GI-0304 plant does not adversely impact the stability of other generators in the local area.

- Regional stability analysis results indicate that faults *nbz* and *nmz* lead to significant transient undervoltage violations West and Northwest of the Twin Cities, both with and without GI-0304. Undervoltage violations were also observed in this region following fault *ei2*. The impact of the proposed GI-0304 project on these questionable violations is not significant. However, as the system performance is unacceptable in the pre-project models, the ultimate incremental impact of this project cannot be fully quantified at the present time. Additional sensitivity work will need to be performed once the impacts of the prior queued generation are resolved, to ensure that transient voltage criteria is met. It can be concluded that the interconnection of the GI-0304 plant likely does not further degrade regional stability of the bulk power system.

5. SHORT-CIRCUIT ANALYSIS

5.1 Base Case Development

The baseline short-circuit case (Pre-Group 2) required for these studies was developed as part of the MISO/WAPA/GRE Coordinated Interconnection Studies (Group 2 Studies) by updating the 2003 MAPP short-circuit case to correspond with the network configuration in the year 2007 with prior-queued Group 2 units (G272, G278, G287 and GI-0303) modeled. Model development is described in the Coordinated Interconnection Study Report.

After developing the baseline short-circuit case, the proposed GI-0304 project was added to create the GI-0304 short-circuit case.

Suitable assumptions were made for short-circuit data not provided in the project datasheets.

It is important to note that the 2003 MAPP short-circuit case described above has not been extensively validated against the in-house short-circuit cases of the host transmission owners. A limited amount of validation was performed as part of the MISO/WAPA Group 1 Interconnection Studies (it was deemed that a thorough validation would require a considerable amount of effort and time). The study ad hoc group decided that the short-circuit calculations be performed regardless of model validation. The short-circuit results presented in this section should therefore be considered preliminary. The transmission owners may revise the results at the facilities study stage should the project proceed forward with the interconnection request.

5.2 Short-Circuit Calculations

Short-circuit studies were performed to calculate the impact of the proposed project on substation fault current levels. Three-phase and single-line-to-ground (SLG) symmetrical fault current levels were calculated at all study area buses[4] both with and without the proposed project. In order to calculate fault current levels, classical fault assumptions were used with a pre-fault voltage of 1.0 pu. Table 5.1 lists fault current levels at those buses where the increase in fault current levels are 100 A or more with the addition of the proposed project.

Transmission owners should review the calculated fault currents to determine whether existing breakers at the impacted substations could become overstressed and whether breaker replacements may be required.

The fault current levels presented in Table 5.1 do not include the effects of fault current decay. It is to be noted that wind turbine generators comprising doubly-fed induction generator (DFIG) technology incorporate fast controls that rapidly restore the generator's terminal current to near its pre-fault level following a fault. As a result,

[4] For short-circuit calculations, the study area is defined as all buses with nominal voltages of 34.5 kV and above in the following zones: 601 through 605, 618 through 629, and 652 through 656. Areas 331 (ALTW) and 635 (MEC) were also included in the study area.

the fault current contributions of DFIGs decay rapidly (the rate of decay is a function of the controller design) thereby affecting fault current levels at nearby substations. If the effects of DFIG current control are considered, the fault currents are expected to be smaller than those shown in Table 5.1.

Table 5.1: Fault Current Levels With and Without the Proposed GI-0304 Project

BUS	NAME	WITH GI-0304		WITHOUT GI-0304		CHANGE	
		3-PH AMPS	SLG AMPS	3-PH AMPS	SLG AMPS	3 PH	SLG
64600	[OSG MID869.0]	27614.8	12447.8	26930.8	12352.5	684.0	95.3
66563	[SPENCER5 161]	10943.0	8750.8	10368.7	8499.8	574.3	251.0
34137	[TRIBOJI5 161]	10130.7	9252.5	9901.8	9124.4	228.9	128.1
66581	[SPENCER869.0]	14609.1	17244.1	14446.3	17092.9	162.8	151.2
66566	[SIOUXCY5 161]	20018.8	20092.3	19863.5	19987.5	155.3	104.8
63710	[WISDOM 869.0]	14494.9	17826.1	14347.2	17677.4	147.7	148.7
63889	[PLYMOTH5 161]	19579.5	15562.0	19442.6	15504.0	136.9	58.0
34136	[TRIBOJI869.0]	12287.7	13825.5	12160.0	13717.8	127.7	107.7
63890	[PLYMOTH869.0]	21036.3	44798.3	20978.9	44625.2	57.4	173.1

6. CONCLUSIONS

The impact of interconnecting 80 MW of wind based generation on the Spencer – Sioux City 161 kV line in O' Brien County, IA was evaluated. The evaluation involved assessment of system performance based on steady state analysis, constrained interface analysis, stability analysis and short-circuit analysis.

Steady-State Analysis:

The interconnection of the proposed GI-0304 project impacted several transmission facilities and resulted in steady-state criteria violations based upon the modeled delivery of the generator's output. It should be noted that many of these overloads are pre-existing due to delivery assumptions from prior queued generation interconnections, and therefore, it is unclear whether these possible overloads will ultimately occur. If they do, these violations may limit the ability of the project to inject power into the transmission system and will therefore need to be resolved during the associated delivery studies. These steady state issues should not impact the ability of the project to interconnect. Additional prior outage studies will be performed during the Facilities Study to identify any required generation restrictions for prior outage operation.

Constrained Interface Analysis:

The study also evaluated the impact of the proposed project on constrained interfaces in the MAPP system and found that the Transfer Distribution Factor (TDF) exceeds the maximum allowable threshold for the following interfaces: COOPER_S: 12.4%, ECL-ARP: 5.7%, FTCAL_S: 16.5%, MWSI: 12.6%, PRI-BYN: 6.9%, QUADCITY_W: 19.7%, LKFFOXLKGWLM: 3.5%, SPETRILAKRAU: 26.9%. These distribution factors are provided for information only to identify potential third party flowgate issues for the transfer of power from the proposed project to the sink. As new interfaces are regularly added to the MAPP process, this listing may not include any recently added flowgates.

Stability Analysis:

The impact of the proposed wind farm on local area transient stability was evaluated. Results indicate that the proposed wind farm would not adversely impact local area stability. This study has also evaluated the impact of the GI-0304 project on the regional stability of the system. Results indicate that faults *nbz* and *nmz* (fault on Chisago – Forbes 500 kV line) lead to significant transient undervoltage violations West and Northwest of the Twin Cities, both with and without GI-0304. Undervoltage violations were also observed in this region following fault *ei2* (permanent bipole fault on the CU DC line with both Coal Creek units tripped). The impact of the proposed GI-0304 project on these questionable violations is not significant. However as the system performance is unacceptable in the pre-project models, the ultimate impact cannot be fully quantified at the present time. Additional sensitivity work will need to be performed once the impacts of the prior queued generation are resolved, to ensure that transient voltage criteria is met. Therefore the study concluded that the regional stability of the system is not likely adversely impacted by the addition of this wind farm.

Short-Circuit Analysis:

Short-circuit analysis was performed to evaluate the impact of the proposed project on transmission system substation fault current levels. The purpose of this analysis was to determine whether the existing breakers at these substations would have adequate fault current interruption capability with the proposed project in service. The Transmission Owners should review the calculated fault currents to determine whether existing breakers at the impacted substations could become overstressed and whether breaker replacements may be required.

The results of this study are based on available data and assumptions made at the time of conducting this study. If any of the data and/or assumptions made in developing the study models change, the results provided in this report may not apply.

Appendix A

Base Case Development for Steady State Analysis

This Appendix describes the development of base cases for the steady-state analysis portion of the GI-0304 interconnection studies. The development of these cases is performed in two stages:

1. First a set of Pre-Group 2 cases are developed using the powerflow cases from the Group 1 studies as a starting point. It is to be noted that the Group 1 cases were created based on the MAPP 2002 Series 2007 Summer Peak and Summer Off-Peak Cases.

2. After developing the Pre-Group 2 cases, the prior-queued Group 2 generation projects (G272, G278, G287 and GI-0303) are added in order to develop the Pre-GI-0304 powerflow cases.

Sections A.1 and A.2 of this document pertain to the development of the Pre-Group 1 and Group 1 cases respectively.

Sections A.3 and A.4 discuss the development of the Pre-Group 2 and Pre-GI-0304 cases respectively.

Development of the GI-0304 cases is presented in Section A.5.

A.1 DEVELOPMENT OF PRE-GROUP 1 CASES

MISO provided the following power flow cases (MAPP 2002 series):

1. *F07suophx.sav* –2002 MAPP series, Summer off-peak case for the year 2007
2. *F07supk.sav*- 2002 MAPP series, Summer peak case for the year 2007

From these two cases, two base power flow cases (i.e., without the proposed Group #1 projects) were developed, representing:

i) Summer peak load conditions and ii) Summer off-peak load conditions (with maximum exports from North Dakota)

The base case development process involved the following steps, based on the information received from MISO:

- Adding new, prior-queue generating units (pre-group #1)

-Making topology changes (add new transmission lines, change transmission configurations, if any)

- Incorporating the reconductored/rebuilt (existing) transmission facilities

- Changing the dispatches of generating units (existing and newly added)

1.The generation projects to be included in the power flow base case were identified. The existing generation in the Buffalo Ridge area was adjusted as shown in Table A1. In the 2007 power flow cases, the Chandler generation was modeled but not dispatched. Therefore, the Chandler generation (Total of 6 MW) was dispatched, with GRE as the sink.

The Pre-Group #1 generation projects, identified by MISO are listed in Table A2. These units were added to the power flow cases to develop the respective off-peak and peak power flow cases.

Table A1: Adjustment of Existing Generation in Buffalo Ridge Area

Bus #	Bus Name	Generation (MW)
61190	Woodstock	10.2
62710	Chandler	6 (2+2+2)
60708	Buffalo Ridge	200
60715	Chanarambie	49

Table A2: Pre-Group #1 Projects Identified by MISO

Project	Bus #	Bus Name	Generation (MW)	Dispatched Against
G037	60715	Chanarambie 115 kV	36	XEL
G040	202	Elk 161 kV	202	XEL
G041	60715	Chandler 69 kV	2	XEL
G057	60715	Chanarambie 115 kV	80	XEL
G060	60715	Chanarambie 115 kV	100	XEL
G073	6002	Yankee 115 kV	1	XEL
G081	6002	Pipestone 69 kV	1	XEL
G097	60858	Hadley 69 kV	2	XEL
G140	52022	Magnolia 69 kV	1.8	ALTW
G142	52022	Magnolia 69 kV	1.5	ALTW
G186	34016	Emery 115 kV	600	ALTW
G226	60715	Chanarambie 115 kV	9	XEL
G232	34136 - 34680	50% distance on Triboji – Oceola	44	ALTW
G285	60715	Chanarambie 115 kV	9	XEL
G298	34137	Triboji 161 kV	100	ALTW

Table A3 shows the dispatch for some key generating units in the Buffalo Ridge vicinity in the peak and off-peak cases. Based on MISO confirmation, these units were dispatched at their respective maximum output capability (except for Pathfinder unit, which is not operational due to cooling tower collapse), with Twin Cities' generation as the sink.

Table A3: Generating Units in Buffalo Ridge Area Vicinity

Unit	Maximum Output (MW)	Dispatch (MW)	
		2007 Summer Peak	2007 Summer off-peak
Lakefield/Martin Co (bus #60331)	550	470	160
Anson (bus #60015)	232	222	0
PathFinder (bus # 60023)	61	61	0
Minn. Valley (bus#60148)	47	37	0
Fibrominn (bus#60374)	50	50	50

2. Next, the modeling of current and future transmission facilities, including the transmission required for the 825 MW transfer capability in the Buffalo Ridge area was reviewed. The following transmission facilities were added to the power flow cases:

1. White – Yankee – Buffalo Ridge 115 kV line[a]
2. Lakefield - Fox Lake 161 kV circuit #2[2]

In addition the above, the updated cases were also checked to ensure all new transmission/upgrades per MISO Transmission Expansion Plan (MTEP) are represented correctly (refer Table A4).

Table A4: Planned Lines and Transformers from MTEP[b]

"From" Bus Number	From:	"To" Bus Number	To:	Ckt #	Voltage(s) (kV)	Reconductor or Thermal Increase (miles)	Rebuild or Conversion (miles)	New (miles)	Summer Rating (MVA)
63290	Harvey	63056	Balta	1	230			22.0	430
63056	Balta	63379	Rugby	1	230			19.0	430
63379	Rugby	67523	Glenboro	C1	230			117.0	430
60042	St Paul Cogen Xfmr	60214		C1	13.8-115				40
60256	Westgate	60332	Glen Lake	C1	115		3.6		310
60332	Glen Lake	60211	Gleason Lake	C1	115		6.6		310
63050	Willmar	60356	Paynesville	C1	230		27.0		600
60356	Paynesville Xfmr	60156		C1	230-115				336
60156	Paynesville Xfmr	60760		P1	115/69	Upgrd			47
60156	Paynesville Xfmr	60760		P2	115/69	Upgrd			47
60250	Tanners Lake	60344	Woodbury	P1	115	3.5			310
60182	Aldrich	60249	St. Louis Park	P1	115	5.4			310
60238	Red Rock	60239	Rogers Lake	P2	115	0.5	5.8		310
62425	Willmar	62005	Kerkhoven Tap	C1	115	14.7			200
60362	Chanarambie	60119	Lake Yankton	C1	115		14.0	12.0	310
60119	Lake Yankton	60171	Lyon County	C1	115		27.0		310
60108	Wilmarth	60331	Lakefield	1	345	54.0			1165
62425	Willmar Xfmr	62427		C1	115/69	Upgrd			112
60149	Minn Valley	60148	Replace 2x50 MVA	C1	230/115	Upgrd			187
60110	Wilmarth (Summit)	60113	Dome	C1	115	2.8			310
60113	Dome	60265	Loon Tap	C1	115	22.1			310
60265	Loon Tap	60107	W Faribault	C1	115	10.6			310
60156	Paynesville	60162	Wakefield	C1	115	15.0			310
60189	Black Dog Xfmr	60190		C1	230/115	Upgrd			336
60728	Franklin	60770	Birch	C1	115 (op 69)		3.1		117
60770	Birch	60677	Henry	C1	115 (op 69)		5.9		117
60677	Henry	60718	Bird Island	C1	115 (op 69)		7.6		117
60148	Minn Valley	61954	Redwood Falls Tap	P1	115	27.2			310
61954	Redwood Falls Tap	60145	Franklin	P1	115	13.0			310
60760	Paynesville	62835	Roscoe tap	P1	115 (op 69)		7.6		117
62835	Roscoe tap	62837	Munson tap	P1	115 (op 69)		4.0		117
60194	Carver Co. Xfmr #2	60931		P2	115-69				70

[a] The data for adding this line was obtained from the power flow cases from the G060 study, provided by MISO during the kickoff meeting.
[b] Extracted from MM2002 XEL Future Facilities.xls, provided by MISO

"From" Bus Number	From:	"To" Bus Number	To:	Ckt #	Voltage(s) (kV)	Reconductor or Thermal Increase (miles)	Rebuild or Conversion (miles)	New (miles)	Summer Rating (MVA)
60260	Bloomington	60180	Airport	C1	115		2.8		310
60180	Airport	60239	Rogers Lake	C1	115		3.4		310
60143	Benton Co Xfmr	63045		P1	230-115				336
60143	Benton Co Xfmr	63045		P2	230-115				336
60212	Goose Lake	62091	Vadnais tap	1	115	1.6			310
62091	Vadnais tap	60225	Lexington	1	115	4.7			310
60224	Long Lake	60176	Baytown	1	115	6.9			380
60730	Arlington	62674	Jessenland tap	P1	115 (op 69)		2.5		117
62674	Jessenland tap	60724	Henderson	P1	115 (op 69)		3.0		117
60724	Henderson	60868	LeSueur tap	P1	115 (op 69)		5.4		117
60868	LeSueur tap	62349	Rush River	P1	115 (op 69)		2.1		117
62349	Rush River	62341	New Sweden tap	P1	115 (op 69)		3.3		117
62341	New Sweden tap	62350	Traverse GRE	P1	115 (op 69)		2.3		117
62350	Traverse GRE	60826	Traverse	P1	115 (op 69)		4.0		117
60238	Red Rock	60266	Battle Creek	P2	115	4.0			310
60236	Red Rock Xfmr	60238		P1	345-115	Upgrd			672
60236	Red Rock Xfmr	60238		P2	345-115	Upgrd			672
60207	Daytons Bluff	60266	Battle Creek	P1	115			2.0	310
60114	Elm Creek Xfmr #2	60115		P2	345-115			yes	448
60107	West Faribault tx #2	60792		P2	115-69	Upgrd			112
60792	West Faribault	60791	Faribault	P1	69		2.2		117
60792	West Faribault	60649	Faribault #2	P2	115 (op 69)		2.2		117
60649	Faribault #2	60794	Nerstrand	P1	115 (op 69)		12.2		117
60196	Chisago	60920	Lindstrom	C1	115		7.0		814
60920	Lindstrom	62276	Shafer	C1	115		2.8		814
62276	Shafer	61128	Lawrence Creek	C1	115		6.2		814
61131	Lawrence Creek	61051	St Croix Falls	C1	161			2.1	742
61051	St Croix Falls	69565	Apple River	C1	161		20.6	2.4	742
61128	Lawrence Creek tx #1	61131		C1	115-161			yes	448
61128	Lawrence Creek tx #2	61131		C2	115-161			yes	448
61128	Lawrence Creek tx	60911		C1	115-69			yes	70
60102	Adams Xfmr #2	34014		P2	345-161			yes	300
60144	Douglas Co Xfmr (+LTC)	60749	(Add LTC)	1	115-69				47
60144	Douglas Co Xfmr #2	60749		P2	115-69			yes	47
60126	Split Rock	60286	Nobles Co	C1	345			52.0	1860
60286	Nobles Co	34006	Lakefield Jct	C1	345			42.0	1860
60287	Nobles Co	60369	Fenton	C1	115			12.0	310
60369	Fenton	60362	Chanarambie	C1	115			14.0	310
60286	Nobles Co tx #1	60287		C1	345/115			yes	448
60205	Crooked Lake	60178	Champlin Tap	P1	115	3.1			310
60115	Elm Ck	62107	Hennepin	P1	115	2.0			620
62107	Hennepin	60232	Osseo	P1	115	1.5			620
60232	Osseo	60351	Crystal	P1	115			3.5	310
60351	Crystal	60216	Indiana	P1	115			4.0	310
60287	Nobles Co	60369	Fenton #2	C2	115		1.5	11.5	310

"From" Bus Number	From:	"To" Bus Number	To:	Ckt #	Voltage(s) (kV)	Reconductor or Thermal Increase (miles)	Rebuild or Conversion (miles)	New (miles)	Summer Rating (MVA)
60286	Nobles Co tx #2	60287		C2	345/115			yes	448
60317	Wheaton 1-4	60305	Eau Claire	P1	161	4.3			445
60317	Wheaton 1-4	69551	Elk Mound	P1	161	3.6			445
60218	Inver Hills	60223	Koch	P2	115			1.8	310
69565	Apple River tx #3	69007		3	161-69			yes	67
60234	Parkers Lake	60211	Gleason Lake	P1	115	2.5			310
60234	Parkers Lake	60211	Gleason Lake	P2	115	2.5			310
60181	Aldrich	60366	Garfield	P1	115			2.0	70
34007	Lakefield Jct	34008	Fox Lake	2	161			24.0	434
63222	Alexandria	60144	Douglas County	1	115	11.0			310
63222	Alexandria	67452	Alex SS	1	115	2.1			310
63220	Elbow Lake	63219	Grant County	1	115	3.6			310
63221	Brandon	63220	Elbow Lake	1	115	16.6			310
63221	Brandon	67452	Alex SS	1	115	13.2			310
34008	Fox Lake	61932	Rutland	1	161		18.0		434
61932	Rutland	34009	Winnebago Jct	1	161		16.0		434
60276	Air Lake	60359	Vermillion River	P1	115			4.2	200
60107	West Faribault tx #1	60792		1	115-69	Upgrd			112
60264	Loon Lake transformer	61976		1	115/69	Upgrd			112
60263	Eden Prairie	60208	Edina	1	115	4.7			310
60208	Edina	60280	Nine Mile Creek	1	115	2.4			310
60280	Nine Mile Creek	60258	Wilson	1	115	3.0			310
60263	Eden Prairie	60258	Wilson	P2	115		8.0		310

Some discrepancies were observed in the shunt devices modeled in the power flow cases, when compared with the MISO plan. This was resolved by updating the power flow cases based on the information provided by MISO as well as the TO, and are shown in Table A5 below:

Table A5: Shunt Devices in the 2007 LF cases with modeling discrepancies

Type Description:	Bus Number	Location:	Voltage (kV)	Summer Rating (Various Units)	I=In Service(new) C=Committed P=Planned	Control Area Number	Remarks
Capacitors	60171	Lyon Co	115	2 x 30 MVAR	P	600	Not modeled in 2007 case-Added 2x30 MVAR at Lyon Co
Capacitor upgrade	60115	Elm Creek	115	80>120 MVAR	P	600	Only the 80 MVAR block is to be modeled as per XEL information
Capacitor #2	60115	Elm Creek	115	120 MVAR	P	600	Not to be modeled per XEL

Some discrepancies were observed in the SVC range and the shunt capacitor bank values, modeled at Lake Yankton. However this was resolved by incorporating the following values for SVC range and capacitor banks, based on instructions from MISO and the TO (XEL):

SVC range: +/- 60 MVAR
Shunt capacitor banks: 4x20

Certain overhead transmission elements have a higher conductor rating applicable during windy conditions, when the wind farms in the vicinity would be operating at near full output. XEL provided the wind ratings at higher wind speeds and corresponding to full wind unit output. Based on this information rating in the power flow model were updated for the following lines:

Facility	**Rating (Rate A in PSSE)** (MVA)	**New Wind Rating** (MVA)
Pathfinder-Pipestone	157	225
Pipestone-Buffalo Ridge	157	292
Buffalo Ridge-Lake Yankton	157	292
Lake Yankton-Lyon Co #1	157	274
Chanarambie-Pipestone	231	384
Chanarambie-Lake Yankton	508	539
Lake Yankton-Lyon Co #2	310	508
Chanarambie-Fenton	459	539
Fenton-Nobles Co	459	539

The following lines have terminal equipment limitations and hence ratings corresponding to these limitations will be used, to start with:

Facility	**Rating (Rate in PSSE)** (MVA)	**New Wind Rating** (MVA)
Split Rock-Pathfinder (Terminal equipment limited at 1200 amps)	240	240
Lyon Co-MinVly (Terminal equipment limited at 600 amps)	120	120

A discrepancy was observed in the representation of generation, load and transmission in Marshall area. Based on XEL information, the generating unit #1 which was earlier modeled at w Marshall (bus #60170), was moved to Saratoga (bus # 60372). A redundant line that was modeled between Marshall (bus 60170) and the Switching Station S3 (bus # 66508) was purged. The rating of Minvly-Granite Falls line was changed from 221 MVA continuous (243 MVA emergency) to 209 MVA continuous (230 MVA emergency). The load at Marshall was distributed between Saratoga, Switching Station S3, Switching Station East and Erie Road, based on XEL inputs. A second generating unit (40 MW max) represented at Marshall was also switched off.

Otter Tail Power (OTP) requested to add the following OTP facilities that were missing in the MAPP model. OTP provided the relevant data to model these facilities.

- Missing 115 kV line between Thief River Falls (bus # 66713) and Viking (bus # 63254).
- Open the branch between bus 67015 (Bemidji 69 kV) and bus 63196
- 21.6 MVAR shunt capacitor bank at Bemidji 115 kV (bus # 63246)
- The second 20.5 MVAR capacitor bank at Wilton 115 kV (bus # 63245)

OTP also requested some changes[c] to the ratings of certain transmission lines in their area. These changes, given in Table A6 below were incorporated:

Table A6: Rating changes to OTP transmission facilities

From		To		KV	Rating (MVA)	
Bus #	Bus Name	Bus #	Bus Name		Existing	OTP
62537	Elmo	62531	Inman	115	216.5	182
62528	Tamarac	63234	Pelican Rapids	115	114.7	102
63245	Wilton	63246	Bemidji	115	224	157
63255	Donaldson	66705	Drayton	115	171	110
63265	Devils Lk	63267	Devils Lk Jct	115	144	120
63325	Browns Vly	63327	Hankinson	230	448	390
63358	Buffalo	66792	Maple River	345	720	640
66706	Falconer	66722	Oslo	115	157	120
66791	Center	67316	Coyote	345	319.7	480

Mid-American Electric Cooperative (MEC) requested the following changes/additions to the power flow case. These updates were incorporated using the data/information provided by MEC.

- Council Bluff unit 4 (bus# 63806) and the related transmission upgrades
- Wall Lake windfarm (bus #64243).with a capability of 150 MW
- Sac County windfarm (bus #64245), with a capability of 160 MW
- Increase MEC Buena Vista wind farm (bus #63906) to max output = 112 MW
- Represent the Corn Belt Coop 69 KV system

3. For the updated summer off-peak case, the power transfers across the major interfaces were as follows:

NDEX=1917MW, MHEX_S = 2203MW, MWSI=1525MW.

These values are slightly off the targets of 1950MW, 2175MW and 1483MW, respectively, for representing a stressed off-peak high simultaneous transfers scenario. Based on MISO request, the transfer levels were adjusted to the target levels. The NMORWG package has an IPLAN program (SETEXPORTS) for the purpose of adjusting transfer levels, however, this program does not seem to work with the thermal case (because of bus numbering conflicts). Therefore the exports were adjusted manually, to mimic the SETEXPORTS program. The following changes were applied to effect the necessary adjustments to the interface flows:

MHEX: The actual export level was 28 MW higher than the target level of 2175 MW. The power level of Radisson – Henday bipole was reduced by 28 MW, while scaling the MAIN load down by applying specific weights to different areas in MAIN:

[c] Ratings provided by OTP are lower than those in the MAPP power flow model

Area #	Weight (%)	Change (MW)
356	30	-8.4
357	10	-2.8
359	3	-0.84
363	57	-15.96
Total		**-28**

NDEX: The actual export level was 33 MW less than the target level of 1950 MW. The following changes were made to make the NDEX 1950 MW:

1. Scale down the North Dakota (Zone # 90) load by 33 MW.
2. Scale up the MAIN load as follows

Area #	Weight (%)	Change (MW)
356	30	9.9
357	10	3.3
359	3	0.99
363	57	18.81
Total		**33**

MWSI: The actual export level was 42 MW higher than the target level of 1483W. The following changes were made to make the MWSI 1483 MW:

1. Scale down the XEL MN (Zone #601) load 84 MW
2. Scale up the MAIN load as follows

Area #	Weight (%)	Change (MW)
356	30	12.6
357	10	4.2
359	3	1.26
363	57	23.94
Total		**42**

A.2 DEVELOPMENT OF GROUP 1 CASES

After establishing Pre-Group 1 power flow cases, the Group #1 generation projects were added and dispatched based on the information provided in Table A7. The information regarding the generation re-dispatch for Group #1 units was obtained from MISO and the TO. Two additional power flow cases, one representing the summer peak load conditions and the other representing summer off-peak load conditions, but with the Group #1 units were developed.

Table A7: Group #1 Project Details

Project	MW	Location	Point of Interconnection	Sink Information
GI-0108	200	White, SD	White 345 KV substation	XEL
G162	200	Fenton, MN	Fenton 115 KV substation	XEL
G164	200	Martin, MN	LGS 345 KV substation	GRE
G176	100	Lincoln, MN	Yankee 115 KV substation	XEL
G185	4.5	Pipestone, MN	Pipestone 69 KV substation	XEL
G253	12	Rock, MN	50% tap point on Split5 Rock – Magnolia 161 KV line	XEL
G255	200	White, SD	Yankee 115 KV substation	XEL
Total	**916.5**			

A.3 DEVELOPMENT OF PRE-GROUP 2 CASES

The Pre-Group 2 powerflow cases were developed from the Group 1 powerflow cases by incorporating the following transmission and generation modeling changes in the ALTW, MEC, XEL and WAPA systems. The transmission owners of these systems provided extensive input in base case development.

A.3.1 Transmission and Generation Changes in the ALTW System

Transmission Changes:

- Several transmission changes were made in the Emery area to eliminate "noise" type overloads seen in the Group 1 studies. ALTW provided an idev file to model the changes. The Emery 161 kV North and South buses are now modeled as a single 161 kV bus (bus 34016). The G186 plant is connected to this bus.

- ALTW requested that the ratings of the following facilities be changed in accordance with Table A8.

Table A8: Rating Changes to ALTW Transmission Facilities

Branch	Old Rating (RATEA MVA)	New Rating (RATEA MVA)
34015 [LIME CK5 161] 34016 [EMERY 161] 1	193.0	200.0
34138 [DUNDEE 869.0] 34543 [DUNDEE2Y 161] 1	84.0	59.0
34384 [MCARMOR869.0] 34396 [EMERY N869.0] 1	69.0	51.0
34136 [TRIBOJI869.0] 34544 [TRIBOJ1Y161] 1	36.0	48.0

Generation Changes:

- Moved G140 and G142 from Magnolia 69 kV (bus 53278) to Wilmont 24 kV (bus 34282).

- Moved G232 to a new bus Floyd 69 kV (bus 34906).

- Modeled G186 on new buses tied to the Emery 161 kV bus (bus 34016).

- Added the following Pre-Group 2 plants (see Table A9).

Table A9: Pre-Group 2 Projects Identified by ALTW

Project	Bus #	Bus Name	Generation (MW)	Dispatched Against
G258	34569	Roquete 69 kV	50	ALTW
G301	34892	Allendorf 69 kV	4	System Swing
G310	34017	C. Gordo 161 kV	8 MW addition to existing 42 MW wind farm	ALTW

A.3.2 Transmission and Generation Changes in the MEC System

Transmission Changes:

- In the Group 1 cases, there were two 161 kV lines between Little Sioux (63908) and Sac County (63892). One was a direct line between Little Sioux and Sac County, the other was a line between Little Sioux – Clipper – Sac County. At the request of MEC, the direct line between Little Sioux and Sac County was purged from the Pre-Group 2 cases.

- The underlying 69 kV system connected to the Sheffield 161 kV bus was modeled using an idev file provided by MEC.

- MEC requested that the ratings of the following facilities be changed (see Table A10).

Table A10: Rating Changes to MEC Transmission Facilities

Branch	Old Rating (RATEA MVA)	New Rating (RATEA MVA)
63730 [HAMPTON5 161] 64647 [HAMP MD5 161] 1	125.0	84.0
63731 [HAMPTON869.0] 64647 [HAMP MD5 161] 1	125.0	84.0
63876 [RAUN 5 161] 63891 [MORNSD 5 161] 1	198.0	223.0
63878 [NEAL 4 5 161] 63894 [MONONA 5 161] 1	163.0	214.0
63889 [PLYMOTH5 161] 63891 [MORNSD 5 161] 1	198.0	223.0
63889 [PLYMOTH5 161] 64000 [LEMARST5 161] 1	163.0	223.0
63892 [LIT SX 5 161] 64000 [LEMARST5 161] 1	163.0	192.0
63894 [MONONA 5 161] 63900 [CARROLL5 161] 1	134.0	195.0
63908 [SAC 5 161] 64625 [SAC MID869.0] 1	83.0	125.0
63909 [SAC 869.0] 64625 [SAC MID869.0] 1	83.0	125.0
64201 [WEBSTER5 161] 64203 [NW FTDG5 161] 1	216.0	173.0
64201 [WEBSTER5 161] 64220 [WRIGHT 5 161] 1	216.0	212.0
64230 [POMEROY5 161] 64620 [POM MID869.0] 1	33.0	50.0
64232 [POMEROY869.0] 64620 [POM MID869.0] 1	33.0	50.0

Generation Changes:

- In the Group 1 cases, the ALTW Buena Vista plant was connected to the Buena Vista 161 kV bus (bus 63906, Unit 2). MEC and ALTW requested that this plant be moved from Buena Vista 161 kV to Storm Lake Junction 69 kV (bus 63715).

  In the Group 1 cases, ALTW Buena Vista is modeled at 16 MW. At the request of MEC and ALTW, this plant is modeled at 80 MW in the Pre-Group 2 cases. The additional 64 MW is dispatched toward MEC generation in Eastern Iowa.

- In the Group 1 cases, the MEC Buena Vista plant (112 MW) was modeled as being directly connected to the Buena Vista 161 kV bus without a GSU. For the Pre-Group 2 cases, MEC provided an idev file to model the plant with its GSU.

- MEC requested that the MW outputs of existing generating units be increased in accordance with Table A11.

Table A11: Adjustment of Existing Generation in MEC System

Generator	Bus #	New PGEN (MW)	Dispatched Against
Neal G2	63882	318	MEC
Neal G3	63883	539	MEC
Neal G4	63884	649	MEC
C. Bluffs G3	63802	737	MEC
C. Bluffs G4	63806	870	MEC
GDMEC G1	64193	164	MEC
GDMEC G2	64194	164	MEC
GDMEC G3	64195	190	MEC
Wisdom Unit 1	63710	38	MEC
Osgood Unit 3	63714	2.1	MEC

- Added three new Pre-Group 2 plants (see Table A12).

Table A12: Pre-Group 2 Projects Identified by MEC

Project	Bus #	Bus Name	Generation (MW)	Dispatched Against
300 MW wind farm connected to Franklin 161 kV	64239	Franklin	300	25% XEL 25% ComEd 25% NPPD 25% Ameren
80 MW wind farm connected to Pomeroy 161 kV	64230	Pomeroy	80	XEL
Nebraska City #2	65322	Nebraska City	600	50% OPPD 25% NPPD 12.5% Ameren 12.5% ComEd

A.3.3 Transmission and Generation Changes in the XEL System

Transmission Changes:

- The St. James area load serving project (Martin Co. 345/115 kV transformer, Martin Co. – Watonwan 115 kV line and Watonwan 115/69 kV transformer).

- Added the Mankato area (Wilmarth area) load serving project:

    - New 115kV line from Dome-Eastwood to create in and out into Eastwood (5 miles of 795 ACSS).
    - New 115kV line from Eastwood-Wilmarth. (5.5 miles of 795 ACSS)
    - New 115kV line from Eastwood-Loon Tap (5 miles of 795 ACSS)
    - Open Dome – Loon Tap 115 kV line

- Opened Montgomery (62682) -Le Center (34303) 69kV line. This line is Normally Open.

- Deleted second 345/115 kV transformer at Elm Creek.

- Deleted second 69 kV line between W. Faribault and Faribault. Corrected impedance of existing 69 kV line in accordance with MAPP 2004 Series 2006 Summer Peak case provided by MISO.

- Added the following 115 KV transmission lines: Air Lake (60276) – (Lake Marion 62234); Air Lake (60276) - Dodd Park (62231); Air Lake (60276) - Vermillion River (60359); Vermillion River (60359) - Empire (62235); Empire (62235) - Rosemont (60341); Empire (62235) - Cannon Falls (60104).

- Added Glencoe 115 kV bus (60898) and new 115 kV line between McLeod and Glencoe (62981). Moved load from Glencoe 69 kV bus (60899) to Glencoe 115 kV bus. Opened 69 kV line between Glencoe (60899) and Biscay Jct. (60873).

- Deleted St. Peter generation (bus 61974).

- Added 69 kV path (circuit identifier '1 ') between Traverse (60826) and Grenisle (60731). Deleted old path with circuit identifier 'P1.

Generation Changes:

- Turned ON the following generators in the local area to their PMAX and redispatched them towards Northern Illinois (Area 363).

    - 87MW at Wilmarth 69kV(60650)
    - 15MW at W. Faribault (60792)
    - 190MW at Blue Lake (60024,60025,60026,60027)
    - 94.1MW at New Ulm Municipal (60939)
    - 12MW at St. James Municipal (60709)
    - 5.5MW at Madelville (60701)
    - 4.3MW at Lake Crystal (60700)
    - 8MW at Blue Earth (60651)

- Reduced Minnesota Valley 115 kV (60148) from 47 MW to 45.4 MW. Scaled up Sherco G1 accordingly.

- Reduced Anson G2 and G3 (60021 and 60022) from 116 MW to 106 MW each. Scaled up Sherco G1 accordingly.

- Turned on Granflcy (60691) at 6 MW and redispatched it toward Sherco G1.

- Added the following prior-queued generating projects:

Table A13: Pre-Group 2 Projects Identified by MISO

Project	Bus #	Bus Name	Generation (MW)	Sink
G141 (Waterville)	60264-60265	On Loon Lake - Loon Tap 115 kV line	46	SMMPA, NI Load
G173 (Rice Co.)	60107-62865	On W. Faribault - Airtech 115 kV line	300	SMMPA, NI Load
G241	60279	Buffalo Ridge 115 kV	1.5	MAIN and ECAR Generation
G261 (Blue Earth Co.)[d]	60108 and 60110	Wilmarth 345 kV and 115 kV	667	XEL MN Load
G262	34007	Lakefield 161 kV	200	GRE Load
G263	60331	Martin Co. 161 kV	105	GRE Load

[d] At the request of the study ad hoc group, the following two reinforcements associated with the G261 project were also included in the Pre-Group 2 cases:

1. New 115 kV line between Wilmarth and Carver County.
2. 69 kV path between Wilmarth and Carver County reconductored with 795 ACSS. New path rating: 186 MVA.

A.3.4 Transmission and Generation Changes in the WAPA System

Transmission Changes:

WAPA requested that the following transmission changes be incorporated into the Pre-Group 2 case in accordance with the MAPP 2004 Series 2009 Summer Peak Case.

For branches that were added, the impedance and RATEA rating data was obtained from the MAPP 2004 Series 2009 Summer Peak Case.

- Added Groton 115/69 kV transformer #2.
- Purged the Vfodnes – Hanlon 230 kV line.
- Purged the Sioux Falls – Utica Jct. 230 kV line.
- Added Vfodnes – Utica 230 kV line.
- Added Hanlon – Sioux Falls 230 kV line.
- Added a new 115 kV bus (bus 67411: BTAP WP) and connected it to the existing Huron 115 kV bus (66515) through a short line.

  Rearranged the transmission lines between Huron, Huron West Park (67404) and Redfield (66535 and 67403) as follows:

  - The first Huron – Huron West Park 115 kV line is between buses 66515 and 67404.
  - The second Huron – Huron West Park 115 kV line is between buses 67411 and 67404.
  - The first Huron - Redfield 115 kV line is between buses 66515 and 66535.
  - The second Huron - Redfield 115 kV line is between buses 67411 and 67403.
- Purged the Watertown – Watertown PP 115 kV circuits 1 and 2.
- Replaced the two Denison 161/69 kV transformers with two 230/69 kV transformers.
- Added a 69 kV line between 66589 [L1SXCTR869.0] and 66591 [J2PRMGR869.0].
- Upgraded the following facilities (impedance and RATEA rating changes):
  - Vfodnes - Sioux Falls 230 kV line (upgraded from 240 MVA to 318 MVA).
  - Vfodnes 230/69 kV Transformer (upgraded from 50 MVA to 100 MVA).
  - Huron - Woonsocket 115 kV line (upgraded from 80 MVA to 120 MVA).

- Watertown 230/115 kV Transformer #2 (upgraded from 100 MVA to 250 MVA).
- Watertown 230/115 kV Transformer #3 (upgraded from 100 MVA to 250 MVA).
- Eagle 230/69 kV Transformer (upgraded from 60 MVA to 150 MVA).

- Added a 20 MVAR switched shunt at the Denison 161 kV bus (66561).

Generation Changes:

- WAPA requested that the MW outputs of existing generating units be increased in accordance with Table A14.

Table A14: Adjustment of Existing Generation in WAPA System

Generator	Bus #	New PGEN (MW)	Dispatched Against
Cleveland 69 kV Unit 1	66245	2.5	MRES (Laramie River)
Cleveland 69 kV Unit 2	66245	3	MRES (Laramie River)
Beresford 12.5 kV	66256	6	WAPA (Oahe)
Spencer 69 kV Unit 1	66581	20	WAPA (Oahe)
Spencer 69 kV Unit 4	66581	8	WAPA (Oahe)
Spencer 69 kV Unit P1	66581	4	WAPA (Oahe)
Watertown PP 115 kV	67451	65	MRES (Laramie River)

- The following Pre-Group 2 projects in the IS queue were incorporated in the Pre-Group 2 cases (see Table A15). All three projects are in the Basin Electric Power Cooperative (BEPC) system and each project has two interconnection points: a primary interconnection point and a secondary interconnection point. For the purposes of this study, WAPA requested that each unit be modeled at its primary interconnection point (actually the projects are radially connected to their primary interconnection points via an underlying 69 kV system).

  The Group 1 powerflow cases do not contain a detailed representation of the underlying 69 kV system to which these units are connected. Instead of modeling the underlying 69 kV system, WAPA proposed that ABB develop a short-circuit equivalent of the underlying 69 kV system from a set of powerflow cases that BEPC provided to ABB as part of a previous study[e]. For each of the generators listed in Table A15, ABB developed a short-circuit equivalent of the underlying 69 kV system by equivalencing the 69 kV branch impedances between the generator GSU high side bus (69 kV) and its point of interconnection listed in Table A15. Each generator

[e] System Impact Study of Proposed Cogeneration Units at Four Sites Along the Northern Border Pipeline, Technical Report Prepared by ABB for Basin Electric Power Cooperative. Report dated January 14, 2004.

was then connected to the buses listed in Table A15 via its GSU and the corresponding short-circuit equivalent impedance.

Table A15: Pre-Group 2 Projects Identified by WAPA

Project	Point of Interconnection Bus #	Point of Interconnection Bus Name	Generation (MW)	Sink
GI-0218	66291	Redfield 69 kV	7.5	BEPC (Antelope Valley)
GI-0219	66294	Blair 69 kV	7.5	BEPC (Antelope Valley)
GI-0314	66290	Ordway 69 kV	8.0	BEPC (Antelope Valley)

A.3.5 Generation Changes in the Corn Belt System

Corn Belt requested that the following generating units be turned ON.

Table A16: Adjustment of Existing Generation in Corn Belt System

Generator	Bus #	New PGEN (MW)	Dispatched Against
Wisdom 69 kV Unit #2	63710	80.0	50% MEC 50% BEPC (Antelope Valley)
Burt	63717	19.3	MEC

A.3.6 Other Transmission and Generation Changes

At the request of the study ad hoc group, the following additional changes were incorporated into the Pre-Group 2 cases:

- Removed the G040 project (Elk, 200 MW). The study ad hoc group determined that as this project had withdrawn from the generator interconnection queue, it should not be included in the Pre-Group 2 cases.

- Moved the G164 project from the Martin Co. 345 kV bus (bus 60331) to the Lakefield Jct. 345 kV bus (bus 34006). The study ad hoc group determined that this project changed its point of interconnection to the Lakefield Jct. 345 kV bus.

- Added a dedicated 345/115 kV transformer at the White substation for the White-Yankee-Buffalo Ridge 115 kV line. An idev file provided by XEL was used to model this change. Specifically, the idev file splits the White 115 kV bus (bus 66538) and creates a new 115 kV bus “White2” (bus 66337). The White – Yankee 115 kV line is moved to this new bus. The zero impedance line between buses 66538 and 66337 is opened. A 345/115 kV 448 MVA transformer is added between buses 66537 (White 345 kV) and 66337 (“White2” 115 kV). The existing 345/115 kV 200 MVA transformer between buses 66537 and 66538 is retained.

Note: The idev file provided by XEL originally included a bundled 2x795A conductor representation for the Yankee – White 115 kV line. The study ad hoc group requested that the bundled representation for this conductor not be used in this study. Thus, the bundled circuit representation was removed from the idev file before using it.

A.3.7 Adjustment of Transfer Levels in the Pre-Group 2 Summer Off-Peak Case

The MW transfers across the major interfaces were adjusted as follows: NDEX (1950), MHEX_S (2174) and MWSI (1479).

A.4 DEVELOPMENT OF PRE-GI-0304 CASES

After establishing Pre-Group 2 power flow cases, the prior-queued Group 2 generation projects (G272, G278, G287 and GI-0303) were added in order to create the Pre-GI-0304 cases. Two Pre-GI-0304 cases were developed: one representing summer peak conditions, the other representing summer off-peak conditions. In the Pre-GI-0304 Summer Off-Peak case, the MW transfers across the major interfaces were adjusted as follows: NDEX (1950), MHEX_S (2175) and MWSI (1481).

A.5 DEVELOPMENT OF GI-0304 CASES

After establishing the Pre-GI-0304 power flow cases, the GI-0304 generation project is added and dispatched based on the information provided by the study ad hoc group (see Table A17). Two GI-0304 cases were developed: one representing summer peak conditions, the other representing summer off-peak conditions. Details pertaining to wind farm modeling are described in the next paragraph.

The proposed wind farm is modeled in the load flow as a single equivalent wind turbine generator (see Figure A1). The generator step-up transformer (GSU) is also modeled as a single lumped equivalent. The substation transformer is also modeled. Collector system impedances are not modeled. The wind turbine generator is assumed to be fully compensated (i.e., the full-load VAr requirements of the wind turbine generator under base case conditions at 1.0 pu voltage are provided by a fixed shunt capacitor placed at the equivalent generator terminals). In order to have a good voltage profile across the wind farm, the taps on the GSU are adjusted such that the voltage at the equivalent generator terminals is in the range 0.95 to 1.05 pu. A fixed substation capacitor has been modeled to maintain a voltage of 1.0 pu on the 34.5 kV bus. The taps on the substation transformer are adjusted to control the flow on the high side (i.e., at the point of interconnection) to achieve a power factor of nearly unity[f] (within the bounds of the transformer taps). The GSU and substation transformer taps are locked for contingency analysis purposes.

In the GI-0304 Summer Off-Peak case, the MW transfers across the major interfaces were adjusted as follows: NDEX (1950), MHEX_S (2175) and MWSI (1480).

[f] See *Generator Requirements for Interconnection,* WAPA document dated September 1999.

Table A17: GI-0304 Project Details

Project	MW	WTG Type	Location County, State	Point of Interconnection		Sink Information
				Bus Name	Bus #	
GI-0304	80.0	Variable Rotor Resistance	O' Brien, IA	Sioux City – Spencer 161 kV line (15 miles from Spencer)	6450	MEC Generation in Eastern Iowa

A.4.1 Model Data Assumptions for the GI-0304 Project

The project data provided for the GI-0304 wind farm was reviewed. At the request of the study ad hoc group, assumptions were made for the missing/incomplete/unavailable data. These assumptions are tabulated in Table A18.

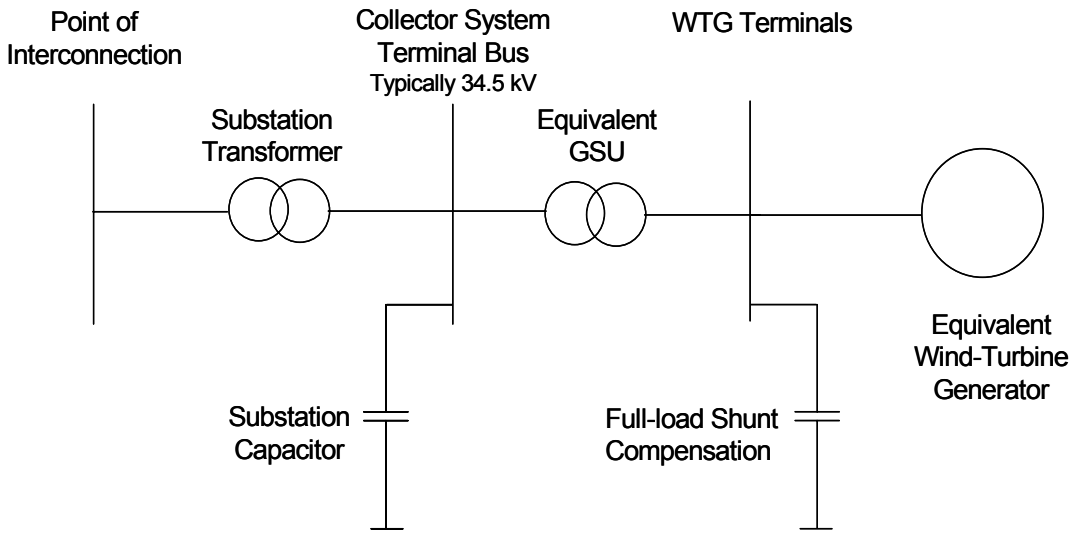

Figure A1: Wind Farm Model for Steady-State Analysis

Table A18: Model Data Assumptions for GI-0304 Project

Project	WTG Type	Manufacturer/ Make	Generator Data	GSU Data	Substation Transformer Data	Collector System Impedance Data
GI-0304	Variable Rotor Resistance	Gamesa G80	No project specific data available. Assumed data provided as part of PTI Gamesa G80 model.	Available.	Available.	Not available. No assumptions made.

Note:
The GSU transformers are assumed to have a tap range of nominal ± 2 x 2.5%.
GSU and substation transformer taps are locked during contingency analysis.

APPENDIX B

SYSTEM INTACT RESULTS FOR GI-0304 INTERCONNECTION

2007 SUMMER PEAK (WITHOUT GI-0304)

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.                          PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E   WED, AUG 25 2004  17:59                    PAGE 1 .
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.                               GI-0303 SU PK CASE FROM 2002 SERIES,2007 SUMR PK                                       .
.                               SP07AA.GI-0303.SAV POI: WHITE 115 KV BUS / SUMMER PEAK                                 .
.                                                                                                                      .
.                     *** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE  90.0 % OF RATING SET A ***            .
.                                             *** ACCC VOLTAGE REPORT ***                                              .
.......................................................................................................................

DISTRIBUTION FACTOR FILE:     temp.dfx
SUBSYSTEM DESCRIPTION FILE:   gr2.sub
MONITORED ELEMENT FILE:       gr2.mon
CONTINGENCY DESCRIPTION FILE: NULL.con

X-------- C O N T I N G E N C Y   E V E N T S --------X X-- O V E R L O A D E D   L I N E S --X  X--MVA(MW)FLOW--X
            X---- MULTI-SECTION LINE GROUPINGS ----X   FROM     NAME        TO     NAME    CKT  PRE-CNT  POST-CNT  RATING  PERCENT
BASE CASE                                              ------------------------------------------------------------------ BASE CASE
                                                        6001 YANKEE 7 115  6002*YANKGEN 34.5 1     201.6    201.6    222.0     90.8
                                                        6001*YANKEE 7 115 66337 WHITE2 7 115 1     315.7    315.7    310.0     99.1
                                                       34004*ELK    5 161 34223 ELK    869.0 1      34.8     34.8     33.6    103.5
                                                       34006 LAKEFLD3 345  3400*G164    34.5 1     200.7    200.7    222.0     90.4
                                                       34007 LAKEFLD5 161  6006*G262    34.5 1     201.4    201.4    220.0     91.6
                                                       34008 FOX LK 5 161 34011*FOXLK53G13.8 1      86.6     86.6     85.0    101.9
                                                       34015 LIME CK5 161 34016*EMERY  5 161 1     259.9    259.9    200.0    127.4
                                                       34051*TOLEDO 7 115 34154 TOLEDO 934.5 1      24.9     24.9     24.0    103.7
                                                       34059*BOONE  7 115 34076 BNE JCT7 115 1      56.4     56.4     60.0     93.4
                                                       34059*BOONE  7 115 34163 BOONE  934.5 1      36.3     36.3     36.0    100.9
                                                       34086*WILMSBG7 115 34153 WILMSBG934.5 1      13.4     13.4     13.0    103.1
                                                       34105*HIAWATA5 161 34112 HIAWATA934.5 1      85.9     85.9     93.0     92.4
                                                       34124*DEWITT 5 161 34143 DEWITT 934.5 1      31.8     31.8     24.0    132.3
                                                       34125 GR MND 869.0 34540*GR MND Y 161 1      23.8     23.8     24.0     99.1
                                                       34127*WYOMING5 161 34141 WYOMING934.5 1      33.4     33.4     18.0    185.4
                                                       34137*TRIBOJI5 161 63897 G298SYS 34.5 1     102.5    102.5     60.0    170.8
                                                       34200 CNTRVIL869.0 34573*N CENT8 69.0 1      43.5     43.5     48.0     90.0
                                                       34225 HERONLK869.0 62355*MILOMA 869.0 1      17.4     17.4     19.0     91.2
                                                       34588*SLAKEN 869.0 34592 SLAKES 869.0 1      57.6     57.6     58.0     98.3
                                                       34592*SLAKES 869.0 34575 CRESTON934.5 1      26.1     26.1     25.0    104.2
                                                       34641 KELLERT869.0 34643*GRRIVER869.0 1      11.4     11.4     12.0     93.0
                                                       60156*PYNSVIL7 115 60702 PAYNES1934.5 1      30.2     30.2     28.0    107.8
                                                       60156 PYNSVIL7 115 60760*PAYNES 869.0 P1     43.1     43.1     47.0     91.7
                                                       60156 PYNSVIL7 115 60760*PAYNES 869.0 P2     43.1     43.1     47.0     91.7
                                                       60160 SHERCO 3 345 60001*SHERC32G24.0 1     720.6    720.6    800.0     90.1
                                                       60160 SHERCO 3 345 60002*SHERC33G26.0 1     883.3    883.3    950.0     93.0
```

60170 MARSHAL7 115	60171*LYON CO7 115	1	152.7	152.7	127.9	117.8
60200 BLK DG27 115	60013*BLK D73G13.8	1	126.1	126.1	133.0	94.8
60200 BLK DG27 115	60014*BLK D74G18.0	1	201.0	201.0	192.0	104.7
60214 HIBRDGE7 115	60009*HIBRD75G13.8	1	125.7	125.7	133.0	94.5
60214 HIBRDGE7 115	60010*HIBRD76G18.0	1	179.5	179.5	192.0	93.5
60240 RIVRSID7 115	60008*RIVRS78G22.0	1	261.8	261.8	275.0	95.2
60264 LOON LK7 115	61976*LOON LK869.0	1	85.4	85.4	75.0	113.9
60286*NOBLES 3 345	60287 NOBLES 7 115	C1	450.8	450.8	448.0	100.6
60331 LKFLDXL3 345	6015*G263 34.5	1	105.1	105.1	110.0	95.6
60369 FENTON 7 115	6036*G162 34.5	1	200.7	200.7	222.0	90.4
60710*FARM TP869.0	62839 BGFSHTP869.0	1	32.3	32.3	19.3	167.3
60756 ALBANY 869.0	62838*FARMING869.0	1	25.7	25.7	27.6	94.6
60786 DUNDAS 869.0	60788*VALLYTP869.0	1	56.7	56.7	48.0	120.5
60788 VALLYTP869.0	60789*CIRCLTP869.0	1	60.2	60.2	48.0	127.7
60789 CIRCLTP869.0	60790*FAIRPRK869.0	1	68.6	68.6	48.0	141.0
60790*FAIRPRK869.0	60792 WFARBLT869.0	1	66.4	66.4	66.0	99.3
60791 FARIBLT869.0	60792*WFARBLT869.0	1	73.9	73.9	47.0	152.6
60809*SJA SWS869.0	60709 STJMSMU869.0	1	33.7	33.7	36.0	92.9
60809 SJA SWS869.0	62805*STJAMES869.0	1	35.2	35.2	36.0	96.3
60835 CHNDLRT869.0	6410*G272 34.5	1	10.0	10.0	10.5	95.0
60860 PIPESTN869.0	6490*G185 34.5	1	4.5	4.5	5.0	90.1
60890 SCOTTCO869.0	60896*SHAKOPE869.0	1	35.3	35.3	37.0	95.7
60897 LEBNON 869.0	62244*EAGAN 869.0	1	47.6	47.6	47.0	106.3
60934*WATOWAN869.0	62805 STJAMES869.0	1	38.2	38.2	36.0	103.2
60938*FTRIDGL869.0	62077 SCHLTP 869.0	1	35.8	35.8	37.0	94.1
61478 INV TR1Y 115	60028*INV 71G13.8	1	63.8	63.8	70.0	91.2
61478 INV TR1Y 115	60029*INV 72G13.8	1	63.9	63.9	70.0	91.3
61481*WHT TR1Y 161	60035 WHT 52G13.8	1	63.7	63.7	70.0	91.1
61601 CENTRDC4 230	66748*CENTER2G20.0	1	477.4	477.4	465.0	102.7
61601 CENTRDC4 230	66756*SQBUTTE4 230	1	458.1	458.1	478.0	92.9
61640*BADOURA7 115	61840 BADOURA934.5	1	20.1	20.1	18.0	111.7
61640*BADOURA7 115	61840 BADOURA934.5	2	20.8	20.8	18.0	115.3
61641*HUBBARD7 115	61841 HUBBARD934.5	1	19.0	19.0	12.0	158.2
61641*HUBBARD7 115	61841 HUBBARD934.5	2	26.7	26.7	18.0	148.2
61642*VERNDLE7 115	61842 VERNDLE934.5	1	19.9	19.9	12.0	165.8
61642*VERNDLE7 115	61842 VERNDLE934.5	2	18.5	18.5	12.0	153.9
61642*VERNDLE7 115	61842 VERNDLE934.5	3	18.1	18.1	12.0	151.2
61645*BAXTER 7 115	61845 BAXTER 934.5	1	25.4	25.4	21.0	120.7
61648*PEQUOT 7 115	61848 PEQUOT 934.5	1	19.2	19.2	18.0	106.6
61650*LITTLEF7 115	61850 LITTLEF934.5	2	16.3	16.3	18.0	90.6
61652*BRAINRD7 115	61852 BRAINRD934.5	1	19.1	19.1	18.0	106.3
61652*BRAINRD7 115	61852 BRAINRD934.5	2	18.4	18.4	18.0	102.1
61652*BRAINRD7 115	61852 BRAINRD934.5	3	18.1	18.1	18.0	100.6
61676 HIBBARD7 115	61680*WNTR ST7 115	1	143.3	143.3	144.0	100.5
61748 BOSWELL7 115	61776*BOSWE71G14.4	1	74.6	74.6	78.0	95.6
61748 BOSWELL7 115	61777*BOSWE72G14.4	1	76.6	76.6	78.0	98.2
61910 MILACA 4 230	62301*MILACA 869.0	1	86.2	86.2	96.0	91.0

62090*PRKWOOD7 115	62132 PRKWOOD869.0	1	93.6	93.6	84.0	111.5
62090*PRKWOOD7 115	62132 PRKWOOD869.0	2	106.4	106.4	112.0	95.0
62109 ISANTI 869.0	62141*ISANTTP869.0	1	18.1	18.1	17.3	111.1
62126*PIPELIN869.0	62134 ELKR14S869.0	1	41.4	41.4	47.0	90.1
62128 BLAINE 869.0	63040*BLAINE 4 230	1	93.1	93.1	95.6	97.3
62147 BNKRLK 869.0	63046*BUNKER 4 230	1	107.4	107.4	112.0	95.9
62275*PINECTY869.0	62285 RUSH SW869.0	1	24.4	24.4	24.3	103.5
62293 RUSH CY869.0	63048*RUSH CY4 230	1	103.2	103.2	84.0	122.9
62368*RNDLKTP869.0	62371 WLKFLTP869.0	1	20.1	20.1	19.0	109.3
62642 ONAMIA 869.0	62652*RUMRVTP869.0	1	21.2	21.2	24.3	91.7
62925 DICKNSN7 115	62667*ST BONI7 115	1	66.0	66.0	71.4	92.7
62933 HIGHLND869.0	62934*HOWARDL869.0	1	19.8	19.8	13.7	145.5
62933*HIGHLND869.0	62935 MAPLELK869.0	1	15.9	15.9	13.7	120.4
62934 HOWARDL869.0	62943*VICTOR 869.0	1	26.3	26.3	17.3	151.8
62947*DICKIN 869.0	62950 ROCKFRD869.0	1	29.3	29.3	30.2	95.1
62965*ELKRWS1869.0	62967 ELKRWS2869.0	1	47.4	47.4	53.0	90.1
62985 HUTCHPK869.0	62986*HUTCHMN869.0	1	54.4	54.4	52.1	103.2
63041 COAL CR4 230	63000*COAL 41G22.0	1	537.5	537.5	566.0	95.0
63041 COAL CR4 230	63001*COAL 42G22.0	1	541.5	541.5	590.0	91.8
63221*BRANDN 7 115	67455 BRANDN 941.6	1	23.2	23.2	12.0	193.5
63223*HOOT LK7 115	63123 HOOT LK941.6	1	27.5	27.5	27.0	101.7
63223 HOOT LK7 115	63323*HOOTLK2G13.8	1	71.0	71.0	60.0	118.3
63223 HOOT LK7 115	63324*HOOTLK3G13.8	1	93.0	93.0	84.0	110.7
63314 BIGSTON4 230	63315*BIGSTN1G24.0	1	457.1	457.1	471.5	97.0
63875*RAUN 3 345	63883 NEAL 3G22.0	1	514.7	514.7	560.0	91.9
63877 NEAL N 5 161	63881*NEAL 1G18.0	1	141.9	141.9	150.0	94.6
64062*DMOINES5 161	64631 DMSMID1869.0	1	78.6	78.6	80.0	98.3
64062*DMOINES5 161	64632 DMSMID2869.0	2	85.8	85.8	90.0	95.4
64230*POMEROY5 161	64686 POMROY 34.5	1	80.4	80.4	89.0	90.4
64239*FRANKLN5 161	64285 BUTLER 5 161	1	215.8	215.8	181.0	118.7
64239*FRANKLN5 161	64688 FRNKLN 34.5	1	301.5	301.5	334.0	90.3
64244 SAC GEN 161	64245*CLIPRG1934.5	1	162.7	162.7	100.0	162.7
64256 UNIONTP5 161	64285*BUTLER 5 161	1	202.6	202.6	181.0	114.3
64418*E MOLINE 161	64671 SB39MID869.0	1	122.6	122.6	125.0	98.1
66441 GARRISN4 230	66457*GARISN1G13.8	1	96.2	96.2	100.0	96.2
66441 GARRISN4 230	66458*GARISN2G13.8	1	96.2	96.2	100.0	96.2
66441 GARRISN4 230	66459*GARISN3G13.8	1	96.2	96.2	100.0	96.2
66442*GARRISN7 115	66460 GARISN4G13.8	1	102.3	102.3	100.0	102.3
66504 BROOKNG7 115	66538*WHITE 7 115	1	152.7	152.7	160.0	93.1
66509*FTRANDL4 230	66549 FTRDL78G13.8	1	88.9	88.9	98.0	90.8
66519*OAHE 4 230	66557 OAHE4-5G13.8	1	198.7	198.7	206.0	96.5
66519*OAHE 4 230	66558 OAHE6-7G13.8	1	196.7	196.7	206.0	95.5
66581 SPENCER869.0	63710*WISDOM 869.0	1	105.3	105.3	110.0	94.6
66751*CENTER 4 230	66749 CENTER1G22.0	1	238.1	238.1	256.0	93.0
67316 COYOTE 3 345	67315*COYOTE1G24.0	1	409.1	409.1	428.0	95.6
67343 HESKETT7 115	67345*HESKET2G13.8	1	127.5	127.5	80.0	159.4

```
                                                      X------ BUS -----X V-CONT V-INIT  X------ BUS -----X V-CONT V-INIT
'GROUP2MON   ' BUSES WITH VOLTAGE GREATER THAN 1.0500: 60116 PRASWCP7 115 1.0514 1.0514  60173 ROSEAUN2 500 1.0938 1.0938
                                                      60174 ROSEAUS2 500 1.0606 1.0606  62000 MARSHLK7 115 1.0507 1.0507
                                                      63214 BIGSTON7 115 1.0591 1.0591  63215 HIWY12 7 115 1.0588 1.0588
                                                      63216 ORTONVL7 115 1.0595 1.0595  64605 CB  MID5 161 1.0558 1.0558
                                                      66568 CRESTN 869.0 1.0694 1.0694  66580 SPENCR 869.0 1.0871 1.0871
                                                      66705 DRAYTON7 115 1.0662 1.0662  66788 DRAYTO2T 230 1.0699 1.0699
                                                      66796 HENSELU869.0 1.0569 1.0569  67170 STEGALDC 230 1.0581 1.0581
                                                      67171 MBPP-1   230 1.0602 1.0602  67308 BEULAH 7 115 1.0511 1.0511
                                                      67318 COYOTE 7 115 1.0569 1.0569

  'GROUP2MON   ' BUSES WITH VOLTAGE LESS THAN 0.9500: 34242 JACKN M869.0 0.9079 0.9079  34246 JACKSNM869.0 0.9097 0.9097
                                                      60686 E MELRO869.0 0.9436 0.9436  60688 MNTVDEO869.0 0.9184 0.9184
                                                      60689 FIESTAC869.0 0.9141 0.9141  60694 RENVILL869.0 0.9152 0.9152
                                                      60695 DANUBE 869.0 0.9053 0.9053  60746 GLENWD 869.0 0.9497 0.9497
                                                      60752 BLCKOAK869.0 0.9459 0.9459  60753 MEIRGRV869.0 0.9497 0.9497
                                                      60754 MELRSMU869.0 0.9394 0.9394  60912 KEGANLK869.0 0.9488 0.9488
                                                      62109 ISANTI 869.0 0.9337 0.9337  62135 STFRNCS869.0 0.9468 0.9468
                                                      62141 ISANTTP869.0 0.9427 0.9427  62143 ATHNSSW869.0 0.9497 0.9497
                                                      62270 INDSTRL869.0 0.9384 0.9384  62283 DALBO  869.0 0.9341 0.9341
                                                      62284 DALBOTP869.0 0.9348 0.9348  62296 INDSTTP869.0 0.9399 0.9399
                                                      62302 ISLE   869.0 0.9427 0.9427  62357 MNNEOTA869.0 0.9375 0.9375
                                                      62365 ENTPRSW869.0 0.9110 0.9110  62366 ENTRPRS869.0 0.9060 0.9060
                                                      62376 MNNE TP869.0 0.9378 0.9378  62397 SUMMIT 869.0 0.9489 0.9489
                                                      62425 WILLMAR7 115 0.9343 0.9343  62642 ONAMIA 869.0 0.9499 0.9499
                                                      62643 OPSTEAD869.0 0.9409 0.9409  62644 GLEN   869.0 0.9418 0.9418
                                                      62645 SPIRITL869.0 0.9389 0.9389  62647 SPRTLKS869.0 0.9409 0.9409
                                                      62648 OPSTDTP869.0 0.9410 0.9410  62752 MLTN TP7 115 0.9464 0.9464
                                                      62753 MILTONA7 115 0.9464 0.9464  62880 MATAWAN869.0 0.9497 0.9497
                                                      62932 GOOSELK869.0 0.9388 0.9388  62939 SILVERC869.0 0.9492 0.9492
                                                      62944 GOOSETP869.0 0.9493 0.9493  62980 MCLEOD 4 230 0.9496 0.9496
                                                      63022 CAMBRDG869.0 0.9436 0.9436  63220 ELBOWLK7 115 0.9459 0.9459
                                                      63221 BRANDN 7 115 0.9372 0.9372  63222 ALEXAND7 115 0.9452 0.9452
                                                      67452 ALEXSS   115 0.9432 0.9432  67453 ALEXSWM  115 0.9431 0.9431
                                                      67454 ALEXPLDM 115 0.9436 0.9436
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2007 SUMMER PEAK (WITH GI-0304)

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.                              PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E   FRI, AUG 27 2004  15:27                    PAGE 1 .
.                                                                                                                          .
.                                   GI-0304 SU PK CASE FROM 2002 SERIES,2007 SUMR PK                                       .
.                                   SP07AA.GI-0304.SAV / SUMMER PEAK                                                       .
.                                                                                                                          .
.                        *** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE  90.0 % OF RATING SET A ***             .
.                                                  *** ACCC VOLTAGE REPORT ***                                             .
```

DISTRIBUTION FACTOR FILE: temp.dfx
SUBSYSTEM DESCRIPTION FILE: gr2.sub
MONITORED ELEMENT FILE: gr2.mon
CONTINGENCY DESCRIPTION FILE: NULL.con

X-------- C O N T I N G E N C Y E V E N T S --------X	X-- O V E R L O A D E D L I N E S --X			X--MVA(MW)FLOW--X			
X---- MULTI-SECTION LINE GROUPINGS ----X	FROM NAME	TO NAME	CKT	PRE-CNT	POST-CNT	RATING	PERCENT
BASE CASE							BASE CASE
	6001 YANKEE 7 115	6002*YANKGEN 34.5	1	201.6	201.6	222.0	90.8
	6001*YANKEE 7 115	66337 WHITE2 7 115	1	315.5	315.5	310.0	99.1
	6450 PRIMGHAR 161	6460*GI0304F134.5	1	80.3	80.3	88.0	91.3
	34004*ELK 5 161	34223 ELK 869.0	1	34.8	34.8	33.6	103.5
	34006 LAKEFLD3 345	3400*G164 34.5	1	200.7	200.7	222.0	90.4
	34007 LAKEFLD5 161	6006*G262 34.5	1	201.4	201.4	220.0	91.5
	34008 FOX LK 5 161	34011*FOXLK53G13.8	1	86.6	86.6	85.0	101.9
	34015 LIME CK5 161	34016*EMERY 5 161	1	262.3	262.3	200.0	128.6
	34051*TOLEDO 7 115	34154 TOLEDO 934.5	1	24.9	24.9	24.0	103.7
	34059*BOONE 7 115	34076 BNE JCT7 115	1	56.3	56.3	60.0	93.2
	34059*BOONE 7 115	34163 BOONE 934.5	1	36.3	36.3	36.0	100.9
	34086*WILMSBG7 115	34153 WILMSBG934.5	1	13.4	13.4	13.0	103.1
	34105*HIAWATA5 161	34112 HIAWATA934.5	1	85.9	85.9	93.0	92.4
	34124*DEWITT 5 161	34143 DEWITT 934.5	1	31.7	31.7	24.0	132.3
	34125 GR MND 869.0	34540*GR MND Y 161	1	23.8	23.8	24.0	99.0
	34127*WYOMING5 161	34141 WYOMING934.5	1	33.4	33.4	18.0	185.4
	34137*TRIBOJI5 161	63897 G298SYS 34.5	1	102.4	102.4	60.0	170.7
	34200 CNTRVIL869.0	34573*N CENT8 69.0	1	43.5	43.5	48.0	90.1
	34225 HERONLK869.0	62355*MILOMA 869.0	1	17.4	17.4	19.0	91.3
	34588*SLAKEN 869.0	34592 SLAKES 869.0	1	57.9	57.9	58.0	98.8
	34592 SLAKES 869.0	34575*CRESTON934.5	1	26.1	26.1	25.0	104.2
	34641 KELLERT869.0	34643*GRRIVER869.0	1	11.7	11.7	12.0	95.4
	60156*PYNSVIL7 115	60702 PAYNES1934.5	1	30.2	30.2	28.0	107.8
	60156 PYNSVIL7 115	60760*PAYNES 869.0	P1	43.2	43.2	47.0	91.9
	60156 PYNSVIL7 115	60760*PAYNES 869.0	P2	43.2	43.2	47.0	91.9
	60160 SHERCO 3 345	60001*SHERC32G24.0	1	720.5	720.5	800.0	90.1
	60160 SHERCO 3 345	60002*SHERC33G26.0	1	883.2	883.2	950.0	93.0
	60170 MARSHAL7 115	60171*LYON CO7 115	1	153.1	153.1	127.9	118.1

60200 BLK DG27 115	60013*BLK D73G13.8	1	126.3	126.3	133.0	94.9
60200 BLK DG27 115	60014*BLK D74G18.0	1	201.0	201.0	192.0	104.7
60214 HIBRDGE7 115	60009*HIBRD75G13.8	1	125.7	125.7	133.0	94.5
60214 HIBRDGE7 115	60010*HIBRD76G18.0	1	179.5	179.5	192.0	93.5
60240 RIVRSID7 115	60008*RIVRS78G22.0	1	261.8	261.8	275.0	95.2
60264 LOON LK7 115	61976*LOON LK869.0	1	85.8	85.8	75.0	114.4
60286*NOBLES 3 345	60287 NOBLES 7 115	C1	450.2	450.2	448.0	100.5
60331 LKFLDXL3 345	6015*G263 34.5	1	105.1	105.1	110.0	95.6
60369 FENTON 7 115	6036*G162 34.5	1	200.7	200.7	222.0	90.4
60710*FARM TP869.0	62839 BGFSHTP869.0	1	32.3	32.3	19.3	167.2
60756 ALBANY 869.0	62838*FARMING869.0	1	25.7	25.7	27.6	94.5
60786 DUNDAS 869.0	60788*VALLYTP869.0	1	56.8	56.8	48.0	120.8
60788 VALLYTP869.0	60789*CIRCLTP869.0	1	60.3	60.3	48.0	128.0
60789 CIRCLTP869.0	60790*FAIRPRK869.0	1	68.7	68.7	48.0	141.3
60790*FAIRPRK869.0	60792 WFARBLT869.0	1	66.5	66.5	66.0	99.5
60791 FARIBLT869.0	60792*WFARBLT869.0	1	74.0	74.0	47.0	152.9
60809*SJA SWS869.0	60709 STJMSMU869.0	1	33.9	33.9	36.0	93.4
60809 SJA SWS869.0	62805*STJAMES869.0	1	35.3	35.3	36.0	96.9
60835 CHNDLRT869.0	6410*G272 34.5	1	10.0	10.0	10.5	95.0
60860 PIPESTN869.0	6490*G185 34.5	1	4.5	4.5	5.0	90.1
60890 SCOTTCO869.0	60896*SHAKOPE869.0	1	35.3	35.3	37.0	95.7
60897 LEBNON 869.0	62244*EAGAN 869.0	1	47.6	47.6	47.0	106.4
60934*WATOWAN869.0	62805 STJAMES869.0	1	38.4	38.4	36.0	103.7
60938*FTRIDGL869.0	62077 SCHLTP 869.0	1	35.9	35.9	37.0	94.4
61478 INV TR1Y 115	60028*INV 71G13.8	1	63.8	63.8	70.0	91.2
61478 INV TR1Y 115	60029*INV 72G13.8	1	63.9	63.9	70.0	91.3
61481*WHT TR1Y 161	60035 WHT 52G13.8	1	63.7	63.7	70.0	91.1
61601 CENTRDC4 230	66748*CENTER2G20.0	1	477.4	477.4	465.0	102.7
61601 CENTRDC4 230	66756*SQBUTTE4 230	1	458.1	458.1	478.0	92.9
61640*BADOURA7 115	61840 BADOURA934.5	1	20.1	20.1	18.0	111.7
61640*BADOURA7 115	61840 BADOURA934.5	2	20.7	20.7	18.0	115.3
61641*HUBBARD7 115	61841 HUBBARD934.5	1	19.0	19.0	12.0	158.1
61641*HUBBARD7 115	61841 HUBBARD934.5	2	26.7	26.7	18.0	148.2
61642*VERNDLE7 115	61842 VERNDLE934.5	1	19.1	19.1	12.0	159.4
61642*VERNDLE7 115	61842 VERNDLE934.5	2	17.8	17.8	12.0	148.0
61642*VERNDLE7 115	61842 VERNDLE934.5	3	17.4	17.4	12.0	145.3
61645*BAXTER 7 115	61845 BAXTER 934.5	1	25.4	25.4	21.0	120.7
61648*PEQUOT 7 115	61848 PEQUOT 934.5	1	19.2	19.2	18.0	106.6
61650*LITTLEF7 115	61850 LITTLEF934.5	2	16.3	16.3	18.0	90.5
61652*BRAINRD7 115	61852 BRAINRD934.5	1	19.1	19.1	18.0	106.3
61652*BRAINRD7 115	61852 BRAINRD934.5	2	18.4	18.4	18.0	102.1
61652*BRAINRD7 115	61852 BRAINRD934.5	3	18.1	18.1	18.0	100.6
61676 HIBBARD7 115	61680*WNTR ST7 115	1	143.5	143.5	144.0	100.7
61748 BOSWELL7 115	61776*BOSWE71G14.4	1	74.5	74.5	78.0	95.6
61748 BOSWELL7 115	61777*BOSWE72G14.4	1	76.6	76.6	78.0	98.1
61910*MILACA 4 230	62301 MILACA 869.0	1	86.2	86.2	96.0	91.0
62090*PRKWOOD7 115	62132 PRKWOOD869.0	1	93.6	93.6	84.0	111.4

62090	*PRKWOOD7 115	62132	PRKWOOD869.0	2	106.3	106.3	112.0	94.9
62109	ISANTI 869.0	62141	*ISANTTP869.0	1	18.1	18.1	17.3	111.1
62126	*PIPELIN869.0	62134	ELKR14S869.0	1	41.4	41.4	47.0	90.1
62128	BLAINE 869.0	63040	*BLAINE 4 230	1	93.0	93.0	95.6	97.3
62147	BNKRLK 869.0	63046	*BUNKER 4 230	1	107.4	107.4	112.0	95.9
62275	*PINECTY869.0	62285	RUSH SW869.0	1	24.3	24.3	24.3	103.3
62293	RUSH CY869.0	63048	*RUSH CY4 230	1	103.1	103.1	84.0	122.8
62368	*RNDLKTP869.0	62371	WLKFLTP869.0	1	20.1	20.1	19.0	109.4
62642	ONAMIA 869.0	62652	*RUMRVTP869.0	1	21.3	21.3	24.3	91.8
62925	DICKNSN7 115	62667	*ST BONI7 115	1	65.7	65.7	71.4	92.3
62933	HIGHLND869.0	62934	*HOWARDL869.0	1	19.8	19.8	13.7	145.6
62933	*HIGHLND869.0	62935	MAPLELK869.0	1	15.9	15.9	13.7	120.5
62934	HOWARDL869.0	62943	*VICTOR 869.0	1	26.3	26.3	17.3	151.8
62947	*DICKIN 869.0	62950	ROCKFRD869.0	1	29.3	29.3	30.2	95.1
62965	*ELKRWS1869.0	62967	ELKRWS2869.0	1	47.4	47.4	53.0	90.0
62985	HUTCHPK869.0	62986	*HUTCHMN869.0	1	54.4	54.4	52.1	103.3
63041	COAL CR4 230	63000	*COAL 41G22.0	1	537.5	537.5	566.0	95.0
63041	COAL CR4 230	63001	*COAL 42G22.0	1	541.5	541.5	590.0	91.8
63221	*BRANDN 7 115	67455	BRANDN 941.6	1	23.2	23.2	12.0	193.5
63223	*HOOT LK7 115	63123	HOOT LK941.6	1	27.5	27.5	27.0	101.7
63223	HOOT LK7 115	63323	*HOOTLK2G13.8	1	71.0	71.0	60.0	118.3
63223	HOOT LK7 115	63324	*HOOTLK3G13.8	1	93.0	93.0	84.0	110.7
63314	BIGSTON4 230	63315	*BIGSTN1G24.0	1	457.1	457.1	471.5	96.9
63875	*RAUN 3 345	63883	NEAL 3G22.0	1	514.6	514.6	560.0	91.9
63877	NEAL N 5 161	63881	*NEAL 1G18.0	1	142.2	142.2	150.0	94.8
64062	*DMOINES5 161	64631	DMSMID1869.0	1	79.0	79.0	80.0	98.8
64062	*DMOINES5 161	64632	DMSMID2869.0	2	86.2	86.2	90.0	95.8
64203	NW FTDG5 161	64230	*POMEROY5 161	1	158.8	158.8	173.0	90.9
64230	*POMEROY5 161	64686	POMROY 34.5	1	80.3	80.3	89.0	90.3
64239	*FRANKLN5 161	64285	BUTLER 5 161	1	218.8	218.8	181.0	120.5
64239	*FRANKLN5 161	64688	FRNKLN 34.5	1	301.3	301.3	334.0	90.2
64244	SAC GEN 161	64245	*CLIPRG1934.5	1	162.6	162.6	100.0	162.6
64256	UNIONTP5 161	64285	*BUTLER 5 161	1	205.4	205.4	181.0	116.1
64418	*E MOLINE 161	64671	SB39MID869.0	1	122.4	122.4	125.0	97.9
66441	GARRISN4 230	66457	*GARISN1G13.8	1	96.2	96.2	100.0	96.2
66441	GARRISN4 230	66458	*GARISN2G13.8	1	96.2	96.2	100.0	96.2
66441	GARRISN4 230	66459	*GARISN3G13.8	1	96.2	96.2	100.0	96.2
66442	*GARRISN7 115	66460	GARISN4G13.8	1	102.3	102.3	100.0	102.3
66504	BROOKNG7 115	66538	*WHITE 7 115	1	152.9	152.9	160.0	93.2
66509	*FTRANDL4 230	66549	FTRDL78G13.8	1	89.0	89.0	98.0	90.8
66519	*OAHE 4 230	66557	OAHE4-5G13.8	1	198.7	198.7	206.0	96.5
66519	*OAHE 4 230	66558	OAHE6-7G13.8	1	196.7	196.7	206.0	95.5
66581	SPENCER869.0	63710	*WISDOM 869.0	1	103.8	103.8	110.0	93.0
66751	*CENTER 4 230	66749	CENTER1G22.0	1	238.1	238.1	256.0	93.0
67316	COYOTE 3 345	67315	*COYOTE1G24.0	1	409.1	409.1	428.0	95.6
67343	HESKETT7 115	67345	*HESKET2G13.8	1	127.5	127.5	80.0	159.4

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                                                        X------ BUS -----X V-CONT V-INIT  X------ BUS -----X V-CONT V-INIT
'GROUP2MON   ' BUSES WITH VOLTAGE GREATER THAN 1.0500: 60116 PRASWCP7 115 1.0517 1.0517  60173 ROSEAUN2 500 1.0936 1.0936
                                                        60174 ROSEAUS2 500 1.0605 1.0605  62000 MARSHLK7 115 1.0508 1.0508
                                                        63214 BIGSTON7 115 1.0591 1.0591  63215 HIWY12 7 115 1.0589 1.0589
                                                        63216 ORTONVL7 115 1.0596 1.0596  64605 CB  MID5 161 1.0558 1.0558
                                                        66568 CRESTN 869.0 1.0694 1.0694  66580 SPENCR 869.0 1.0903 1.0903
                                                        66705 DRAYTON7 115 1.0665 1.0665  66788 DRAYTO2T 230 1.0702 1.0702
                                                        66796 HENSELU869.0 1.0573 1.0573  67170 STEGALDC 230 1.0581 1.0581
                                                        67171 MBPP-1   230 1.0602 1.0602  67308 BEULAH 7 115 1.0511 1.0511
                                                        67318 COYOTE 7 115 1.0569 1.0569

  'GROUP2MON   ' BUSES WITH VOLTAGE LESS THAN 0.9500: 34242 JACKN M869.0 0.9076 0.9076  34246 JACKSNM869.0 0.9094 0.9094
                                                        60686 E MELRO869.0 0.9450 0.9450  60688 MNTVDEO869.0 0.9181 0.9181
                                                        60689 FIESTAC869.0 0.9138 0.9138  60694 RENVILL869.0 0.9149 0.9149
                                                        60695 DANUBE 869.0 0.9050 0.9050  60752 BLCKOAK869.0 0.9473 0.9473
                                                        60754 MELRSMU869.0 0.9408 0.9408  60912 KEGANLK869.0 0.9487 0.9487
                                                        62109 ISANTI 869.0 0.9338 0.9338  62135 STFRNCS869.0 0.9468 0.9468
                                                        62141 ISANTTP869.0 0.9428 0.9428  62143 ATHNSSW869.0 0.9498 0.9498
                                                        62270 INDSTRL869.0 0.9385 0.9385  62283 DALBO  869.0 0.9342 0.9342
                                                        62284 DALBOTP869.0 0.9349 0.9349  62296 INDSTTP869.0 0.9399 0.9399
                                                        62302 ISLE   869.0 0.9435 0.9435  62357 MNNEOTA869.0 0.9372 0.9372
                                                        62365 ENTPRSW869.0 0.9107 0.9107  62366 ENTRPRS869.0 0.9057 0.9057
                                                        62376 MNNE TP869.0 0.9375 0.9375  62396 AMNICON869.0 0.9499 0.9499
                                                        62397 SUMMIT 869.0 0.9487 0.9487  62400 BARDNSW869.0 0.9500 0.9500
                                                        62425 WILLMAR7 115 0.9342 0.9342  62643 OPSTEAD869.0 0.9417 0.9417
                                                        62644 GLEN   869.0 0.9426 0.9426  62645 SPIRITL869.0 0.9398 0.9398
                                                        62647 SPRTLKS869.0 0.9418 0.9418  62648 OPSTDTP869.0 0.9418 0.9418
                                                        62752 MLTN TP7 115 0.9488 0.9488  62753 MILTONA7 115 0.9488 0.9488
                                                        62880 MATAWAN869.0 0.9486 0.9486  62932 GOOSELK869.0 0.9389 0.9389
                                                        62939 SILVERC869.0 0.9493 0.9493  62944 GOOSETP869.0 0.9494 0.9494
                                                        62980 MCLEOD 4 230 0.9493 0.9493  63022 CAMBRDG869.0 0.9437 0.9437
                                                        63220 ELBOWLK7 115 0.9473 0.9473  63221 BRANDN 7 115 0.9391 0.9391
                                                        63222 ALEXAND7 115 0.9476 0.9476  67452 ALEXSS   115 0.9456 0.9456
                                                        67453 ALEXSWM  115 0.9455 0.9455  67454 ALEXPLDM 115 0.9459 0.9459
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2007 SUMMER OFF-PEAK (WITH OUT GI-0304)

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.                          PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E   WED, AUG 25 2004  17:59                    PAGE 1 .
.                                                                                                                        .
.                               GI-0303 SU OP CASE FROM F07SUOPHX,MAPP 2002 SERIES YR-2007                               .
.                               SO07AA.GI-0303.SAV. ND 1950, MH 2175, MWSI 1481                                          .
.                                                                                                                        .
.                     *** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE  90.0 % OF RATING SET A ***              .
.                                            *** ACCC VOLTAGE REPORT ***                                                 .
.......................................................................................................................

DISTRIBUTION FACTOR FILE:     temp.dfx
SUBSYSTEM DESCRIPTION FILE:   gr2.sub
MONITORED ELEMENT FILE:       gr2.mon
CONTINGENCY DESCRIPTION FILE: NULL.con

X-------- C O N T I N G E N C Y   E V E N T S --------X X-- O V E R L O A D E D   L I N E S --X  X--MVA(MW)FLOW--X
            X---- MULTI-SECTION LINE GROUPINGS ----X   FROM     NAME        TO     NAME    CKT  PRE-CNT  POST-CNT  RATING  PERCENT
BASE CASE                                              ------------------------------------------------------------------ BASE CASE
                                                        6001 YANKEE 7 115  6002*YANKGEN 34.5 1     201.7    201.7    222.0     90.9
                                                        6001*YANKEE 7 115 66337 WHITE2 7 115 1     326.9    326.9    310.0    103.4
                                                       34006 LAKEFLD3 345  3400*G164    34.5 1     200.5    200.5    222.0     90.3
                                                       34007 LAKEFLD5 161  6006*G262    34.5 1     201.5    201.5    220.0     91.6
                                                       34008 FOX LK 5 161 34011*FOXLK53G13.8 1      86.6     86.6     85.0    101.9
                                                       34010 HAYWARD5 161 34013*WNBAGOS5 161 1     193.3    193.3    167.0    119.3
                                                       34015 LIME CK5 161 34016*EMERY  5 161 1     198.8    198.8    200.0     97.5
                                                       34016*EMERY  5 161 64252 FLOYD  5 161 1     236.0    236.0    217.0    106.6
                                                       34020*HAZL S 5 161 34135 DUNDEE 5 161 1     207.4    207.4    167.0    122.4
                                                       34051 TOLEDO 7 115 34066*M-TOWN 7 115 1      78.1     78.1     77.0     96.5
                                                       34051*TOLEDO 7 115 34083 BL.PLN.7 115 1      54.0     54.0     59.0     90.8
                                                       34051*TOLEDO 7 115 34154 TOLEDO 934.5 1      24.9     24.9     24.0    103.7
                                                       34054*GR JCT 5 161 34058 PERRY  5 161 1     106.8    106.8    112.0     95.5
                                                       34054 GR JCT 5 161 63771*DRAGER 5 161 1     130.1    130.1    140.0     94.3
                                                       34059*BOONE  7 115 34163 BOONE  934.5 1      36.2     36.2     36.0    100.6
                                                       34066*M-TOWN 7 115 34085 BLRSTWN7 115 1      64.5     64.5     60.0    102.4
                                                       34075 ELDORA 7 115 34077*IA FALS7 115 1      65.2     65.2     60.0    108.1
                                                       34086*WILMSBG7 115 34153 WILMSBG934.5 1      13.4     13.4     13.0    103.0
                                                       34105*HIAWATA5 161 34112 HIAWATA934.5 1      86.0     86.0     93.0     92.4
                                                       34113 FAIR   869.0 34870*MONTPELI69.0 1      40.0     40.0     42.0     93.9
                                                       34124*DEWITT 5 161 34143 DEWITT 934.5 1      31.6     31.6     24.0    131.7
                                                       34125 GR MND 869.0 34540*GR MND Y 161 1      23.0     23.0     24.0     95.8
                                                       34127*WYOMING5 161 34141 WYOMING934.5 1      33.4     33.4     18.0    185.6
                                                       34137*TRIBOJI5 161 63897 G298SYS 34.5 1     102.7    102.7     60.0    171.1
                                                       34137*TRIBOJI5 161 66563 SPENCER5 161 1     197.0    197.0    195.0     98.5
                                                       34138*DUNDEE 869.0 34521 GRELYTP869.0 1      22.6     22.6     24.0     95.8
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34200 CNTRVIL869.0	34573*N CENT8 69.0	1	50.5	50.5	48.0	105.2
34588*SLAKEN 869.0	34592 SLAKES 869.0	1	61.8	61.8	58.0	105.5
34592 SLAKES 869.0	34575*CRESTON934.5	1	26.1	26.1	25.0	104.2
34641 KELLERT869.0	34643*GRRIVER869.0	1	18.9	18.9	12.0	155.8
34643 GRRIVER869.0	34644*ELLSTNR869.0	1	13.1	13.1	12.0	109.1
60105 PR ISLD3 345	60003*PR IS31G20.0	1	541.2	541.2	600.0	90.2
60105 PR ISLD3 345	60004*PR IS32G20.0	1	540.2	540.2	600.0	90.0
60107 W FARIB7 115	61952*S FARIB5 161	1	160.9	160.9	173.0	93.0
60150*MNVLTAP4 230	66550 GRANITF4 230	1	314.8	314.8	318.0	101.2
60160 SHERCO 3 345	60002*SHERC33G26.0	1	885.1	885.1	950.0	93.2
60173*ROSEAUN2 500	60174 ROSEAUS2 500	1	1867.0	1867.0	1732.0	101.3
60173 ROSEAUN2 500	67564*DORSEY 2 500	1	1869.9	1869.9	1732.0	105.0
60200 BLK DG27 115	60013*BLK D73G13.8	1	128.9	128.9	133.0	96.9
60214 HIBRDGE7 115	60010*HIBRD76G18.0	1	179.4	179.4	192.0	93.5
60240 RIVRSID7 115	60008*RIVRS78G22.0	1	261.7	261.7	275.0	95.2
60264 LOON LK7 115	61976*LOON LK869.0	1	90.4	90.4	75.0	120.6
60286*NOBLES 3 345	60287 NOBLES 7 115	C1	507.6	507.6	448.0	113.3
60310*MONROCO5 161	60949 MONROCO869.0	1	66.6	66.6	70.0	95.1
60331 LKFLDXL3 345	6015*G263 34.5	1	105.1	105.1	110.0	95.6
60369 FENTON 7 115	6036*G162 34.5	1	200.7	200.7	222.0	90.4
60710*FARM TP869.0	62839 BGFSHTP869.0	1	23.4	23.4	19.3	119.5
60784 BELPLAN869.0	62675*ASSMPTN869.0	1	20.3	20.3	19.3	104.1
60786 DUNDAS 869.0	60788*VALLYTP869.0	1	48.8	48.8	48.0	102.4
60788 VALLYTP869.0	60789*CIRCLTP869.0	1	50.7	50.7	48.0	106.2
60789 CIRCLTP869.0	60790*FAIRPRK869.0	1	56.6	56.6	48.0	115.8
60791 FARIBLT869.0	60792*WFARBLT869.0	1	60.2	60.2	47.0	124.4
60835 CHNDLRT869.0	6410*G272 34.5	1	10.0	10.0	10.5	94.9
60934*WATOWAN869.0	62805 STJAMES869.0	1	33.4	33.4	36.0	90.1
60949*MONROCO869.0	68847 SPARTA 69.0	1	64.5	64.5	47.0	132.8
61601 CENTRDC4 230	66748*CENTER2G20.0	1	477.4	477.4	465.0	102.7
61601 CENTRDC4 230	66756*SQBUTTE4 230	1	458.1	458.1	478.0	92.7
61641*HUBBARD7 115	61841 HUBBARD934.5	1	13.2	13.2	12.0	110.1
61641*HUBBARD7 115	61841 HUBBARD934.5	2	18.6	18.6	18.0	103.2
61642*VERNDLE7 115	61842 VERNDLE934.5	1	14.2	14.2	12.0	118.5
61642*VERNDLE7 115	61842 VERNDLE934.5	2	13.2	13.2	12.0	110.1
61642*VERNDLE7 115	61842 VERNDLE934.5	3	13.0	13.0	12.0	108.1
61721 ETCO 7 115	61722*FORBES 7 115	1	95.4	95.4	98.0	96.0
62933 HIGHLND869.0	62934*HOWARDL869.0	1	15.5	15.5	13.7	112.6
62933*HIGHLND869.0	62935 MAPLELK869.0	1	12.7	12.7	13.7	94.3
62934 HOWARDL869.0	62943*VICTOR 869.0	1	20.2	20.2	17.3	115.7
62980 MCLEOD 4 230	63054*PANTHER4 230	1	279.7	279.7	319.0	92.2
62985 HUTCHPK869.0	62986*HUTCHMN869.0	1	56.1	56.1	52.1	106.4
63041 COAL CR4 230	63000*COAL 41G22.0	1	589.2	589.2	566.0	104.1
63041 COAL CR4 230	63001*COAL 42G22.0	1	589.2	589.2	590.0	99.9
63049 STANTON4 230	63002*STANT41G18.0	1	194.6	194.6	210.0	92.7
63314 BIGSTON4 230	63315*BIGSTN1G24.0	1	468.4	468.4	471.5	99.4
63875 RAUN 3 345	63883*NEAL 3G22.0	1	523.7	523.7	560.0	93.5

```
63877 NEAL N 5 161 63882*NEAL  2G20.0 1     319.8    319.8    345.0     92.7
64062*DMOINES5 161 64631 DMSMID1869.0 1      81.5     81.5     80.0    101.8
64062*DMOINES5 161 64632 DMSMID2869.0 2      88.9     88.9     90.0     98.8
64192 GDMEC    345 64193*GDMECGT118.0 1     197.5    197.5    200.0     98.7
64192 GDMEC    345 64194*GDMECGT218.0 2     197.5    197.5    200.0     98.7
64203*NW FTDG5 161 64205 FT.DODG5 161 1     159.3    159.3    167.0     95.8
64203 NW FTDG5 161 64230*POMEROY5 161 1     212.3    212.3    173.0    122.8
64239*FRANKLN5 161 64285 BUTLER 5 161 1     264.6    264.6    181.0    147.0
64244 SAC GEN  161 64245*CLIPRG1934.5 1     165.9    165.9    100.0    165.9
64250 BLKHAWK5 161 64256*UNIONTP5 161 1     158.2    158.2    181.0     91.9
64256 UNIONTP5 161 64285*BUTLER 5 161 1     246.5    246.5    181.0    143.0
64256*UNIONTP5 161 64655 UNI MID869.0 1      99.9     99.9    100.0     99.9
64418*E MOLINE 161 64671 SB39MID869.0 1     114.9    114.9    125.0     91.9
66405*FTPECK 4 230 66414 FTPECK4G13.8 1      43.3     43.3     48.0     90.3
66441 GARRISN4 230 66457*GARISN1G13.8 1      93.1     93.1    100.0     93.1
66441 GARRISN4 230 66458*GARISN2G13.8 1      93.1     93.1    100.0     93.1
66441 GARRISN4 230 66459*GARISN3G13.8 1      93.1     93.1    100.0     93.1
66442*GARRISN7 115 66460 GARISN4G13.8 1      94.6     94.6    100.0     94.6
66442*GARRISN7 115 66461 GARISN5G13.8 1      98.9     98.9    100.0     98.9
66509 FTRANDL4 230 66549*FTRDL78G13.8 1      88.6     88.6     98.0     90.4
66510 FTRANDL7 115 66546*FTRDL12G13.8 1      88.5     88.5     98.0     90.3
66540 BIGBND14 230 66542*BGBND12G13.8 1     128.2    128.2    142.0     90.3
66563 SPENCER5 161 66580*SPENCR 869.0 1      54.7     54.7     60.0     91.1
66563 SPENCER5 161 66580*SPENCR 869.0 2      45.6     45.6     50.0     91.2
66565*SIOUXCY4 230 66567 DENISON4 230 1     239.6    239.6    240.0     98.5
66580 SPENCR 869.0 66581*SPENCER869.0 1     102.5    102.5    100.0    102.5
66581 SPENCER869.0 63710*WISDOM 869.0 1     111.7    111.7    110.0    100.4
66751*CENTER 4 230 66749 CENTER1G22.0 1     260.0    260.0    256.0    101.6
67105 LELANDO3 345 67111*LELAN32G20.0 1     452.1    452.1    495.0     91.3
67106*LELANDO4 230 67110 LELAN41G22.0 1     249.1    249.1    256.0     97.3
67316 COYOTE 3 345 67315*COYOTE1G24.0 1     453.2    453.2    428.0    105.9

                                            X------ BUS -----X V-CONT V-INIT  X------ BUS -----X V-CONT V-INIT
'GROUP2MON   ' BUSES WITH VOLTAGE GREATER THAN 1.0500: 60173 ROSEAUN2 500 1.0639 1.0639  60174 ROSEAUS2 500 1.0557 1.0557
                                                       60657 BAYFRT8888.0 1.0605 1.0605  61063 RIVER F869.0 1.0895 1.0895
                                                       62000 MARSHLK7 115 1.0661 1.0661  63214 BIGSTON7 115 1.0650 1.0650
                                                       63215 HIWY12 7 115 1.0662 1.0662  63216 ORTONVL7 115 1.0695 1.0695
                                                       63217 APPLETN7 115 1.0644 1.0644  63257 HENSEL 7 115 1.0585 1.0585
                                                       64605 CB  MID5 161 1.0577 1.0577  66419 KILDEER7 115 1.0508 1.0508
                                                       66422 HALIDAY7 115 1.0541 1.0541  66568 CRESTN 869.0 1.0622 1.0622
                                                       66580 SPENCR 869.0 1.0896 1.0896  66705 DRAYTON7 115 1.0648 1.0648
                                                       66788 DRAYTO2T 230 1.0666 1.0666  66796 HENSELU869.0 1.0739 1.0739
                                                       67170 STEGALDC 230 1.0581 1.0581  67171 MBPP-1   230 1.0602 1.0602
                                                       67308 BEULAH 7 115 1.0577 1.0577  67316 COYOTE 3 345 1.0502 1.0502
                                                       67318 COYOTE 7 115 1.0632 1.0632

  'GROUP2MON   ' BUSES WITH VOLTAGE LESS THAN 0.9500: 34286 ALEAWST869.0 0.9433 0.9433  34287 SBRDWAY869.0 0.9452 0.9452
```

```
34288 ALEA NW869.0 0.9395 0.9395  34289 FAIRGNT869.0 0.9485 0.9485
34290 FARMSTD869.0 0.9460 0.9460  34291 ALEA  E869.0 0.9483 0.9483
34292 ALEA19 869.0 0.9457 0.9457  60189 BLK DOG4 230 0.9379 0.9379
60695 DANUBE 869.0 0.9488 0.9488  60780 CLRKGNS869.0 0.9339 0.9339
62880 MATAWAN869.0 0.9272 0.9272  62881 ST OLAF869.0 0.9317 0.9317
62980 MCLEOD 4 230 0.9436 0.9436  64411 GALESBR5 161 0.9381 0.9381
64682 GALEMID1 138 0.9381 0.9381  64683 GALEMID2 138 0.9381 0.9381
69199 BANCROFT69.0 0.9387 0.9387
```

2007 SUMMER OFF-PEAK (WITH GI-0304)

```
.                          PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E   FRI, AUG 27 2004  15:27                    PAGE 1 .
.                                                                                                                        .
.                               GI-0304 SU OP CASE FROM F07SUOPHX,MAPP 2002 SERIES YR-2007                               .
.                               SO07AA.GI-0304.SAV. ND 1950, MH 2175, MWSI 1481                                          .
.                                                                                                                        .
.                     *** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE  90.0 % OF RATING SET A ***              .
.                                            *** ACCC VOLTAGE REPORT ***                                                 .
```

DISTRIBUTION FACTOR FILE: temp.dfx
SUBSYSTEM DESCRIPTION FILE: gr2.sub
MONITORED ELEMENT FILE: gr2.mon
CONTINGENCY DESCRIPTION FILE: NULL.con

X-------- C O N T I N G E N C Y E V E N T S --------X	X-- O V E R L O A D E D L I N E S --X				X--MVA(MW)FLOW--X			
X---- MULTI-SECTION LINE GROUPINGS ----X	FROM NAME	TO NAME	CKT		PRE-CNT	POST-CNT	RATING	PERCENT
BASE CASE								BASE CASE
	6001 YANKEE 7 115	6002*YANKGEN 34.5	1		201.7	201.7	222.0	90.9
	6001*YANKEE 7 115	66337 WHITE2 7 115	1		326.7	326.7	310.0	103.3
	6450 PRIMGHAR 161	6460*GI0304F134.5	1		80.3	80.3	88.0	91.3
	34006 LAKEFLD3 345	3400*G164 34.5	1		200.5	200.5	222.0	90.3
	34007 LAKEFLD5 161	6006*G262 34.5	1		201.5	201.5	220.0	91.6
	34008 FOX LK 5 161	34011*FOXLK53G13.8	1		86.6	86.6	85.0	101.9
	34010 HAYWARD5 161	34013*WNBAGOS5 161	1		194.8	194.8	167.0	120.4
	34015 LIME CK5 161	34016*EMERY 5 161	1		202.1	202.1	200.0	99.1
	34016*EMERY 5 161	64252 FLOYD 5 161	1		237.9	237.9	217.0	107.5
	34020*HAZL S 5 161	34135 DUNDEE 5 161	1		208.1	208.1	167.0	122.9
	34051 TOLEDO 7 115	34066*M-TOWN 7 115	1		78.8	78.8	77.0	97.5
	34051*TOLEDO 7 115	34083 BL.PLN.7 115	1		54.8	54.8	59.0	92.0
	34051*TOLEDO 7 115	34154 TOLEDO 934.5	1		24.9	24.9	24.0	103.7
	34054*GR JCT 5 161	34058 PERRY 5 161	1		108.9	108.9	112.0	97.5
	34054 GR JCT 5 161	63771*DRAGER 5 161	1		132.1	132.1	140.0	95.9
	34059*BOONE 7 115	34163 BOONE 934.5	1		36.2	36.2	36.0	100.6
	34066*M-TOWN 7 115	34085 BLRSTWN7 115	1		65.4	65.4	60.0	103.9
	34075 ELDORA 7 115	34077*IA FALS7 115	1		65.9	65.9	60.0	109.4
	34086*WILMSBG7 115	34153 WILMSBG934.5	1		13.4	13.4	13.0	103.0
	34105*HIAWATA5 161	34112 HIAWATA934.5	1		86.0	86.0	93.0	92.4
	34113 FAIR 869.0	34870*MONTPELI69.0	1		40.1	40.1	42.0	94.2
	34124*DEWITT 5 161	34143 DEWITT 934.5	1		31.6	31.6	24.0	131.7
	34125 GR MND 869.0	34540*GR MND Y 161	1		23.0	23.0	24.0	95.7
	34127*WYOMING5 161	34141 WYOMING934.5	1		33.4	33.4	18.0	185.6
	34129 LIBERTY5 161	34135*DUNDEE 5 161	1		148.1	148.1	167.0	90.2
	34137*TRIBOJI5 161	63897 G298SYS 34.5	1		102.6	102.6	60.0	171.0

34138*DUNDEE 869.0	34521 GRELYTP869.0	1	22.7	22.7	24.0	96.1
34200 CNTRVIL869.0	34573*N CENT8 69.0	1	50.5	50.5	48.0	105.1
34588*SLAKEN 869.0	34592 SLAKES 869.0	1	62.1	62.1	58.0	106.1
34592 SLAKES 869.0	34575*CRESTON934.5	1	26.1	26.1	25.0	104.2
34641 KELLERT869.0	34643*GRRIVER869.0	1	19.1	19.1	12.0	157.7
34643 GRRIVER869.0	34644*ELLSTNR869.0	1	13.3	13.3	12.0	110.5
60105 PR ISLD3 345	60003*PR IS31G20.0	1	541.9	541.9	600.0	90.3
60105 PR ISLD3 345	60004*PR IS32G20.0	1	540.9	540.9	600.0	90.2
60107 W FARIB7 115	61952*S FARIB5 161	1	161.3	161.3	173.0	93.3
60150*MNVLTAP4 230	66550 GRANITF4 230	1	316.6	316.6	318.0	101.9
60160 SHERCO 3 345	60002*SHERC33G26.0	1	885.2	885.2	950.0	93.2
60173*ROSEAUN2 500	60174 ROSEAUS2 500	1	1872.0	1872.0	1732.0	101.4
60173 ROSEAUN2 500	67564*DORSEY 2 500	1	1872.4	1872.4	1732.0	105.1
60200 BLK DG27 115	60013*BLK D73G13.8	1	128.9	128.9	133.0	96.9
60214 HIBRDGE7 115	60010*HIBRD76G18.0	1	179.4	179.4	192.0	93.5
60240 RIVRSID7 115	60008*RIVRS78G22.0	1	261.7	261.7	275.0	95.2
60264 LOON LK7 115	61976*LOON LK869.0	1	90.8	90.8	75.0	121.1
60286*NOBLES 3 345	60287 NOBLES 7 115	C1	506.8	506.8	448.0	113.1
60310*MONROCO5 161	60949 MONROCO869.0	1	66.6	66.6	70.0	95.1
60331 LKFLDXL3 345	6015*G263 34.5	1	105.2	105.2	110.0	95.6
60369 FENTON 7 115	6036*G162 34.5	1	200.7	200.7	222.0	90.4
60710*FARM TP869.0	62839 BGFSHTP869.0	1	23.5	23.5	19.3	120.2
60784 BELPLAN869.0	62675*ASSMPTN869.0	1	20.4	20.4	19.3	104.7
60786 DUNDAS 869.0	60788*VALLYTP869.0	1	49.1	49.1	48.0	103.1
60788 VALLYTP869.0	60789*CIRCLTP869.0	1	51.1	51.1	48.0	106.9
60789 CIRCLTP869.0	60790*FAIRPRK869.0	1	56.9	56.9	48.0	116.5
60791 FARIBLT869.0	60792*WFARBLT869.0	1	60.6	60.6	47.0	125.1
60835 CHNDLRT869.0	6410*G272 34.5	1	10.0	10.0	10.5	94.9
60934*WATOWAN869.0	62805 STJAMES869.0	1	33.7	33.7	36.0	90.9
60949*MONROCO869.0	68847 SPARTA 69.0	1	64.5	64.5	47.0	132.8
61601 CENTRDC4 230	66748*CENTER2G20.0	1	477.4	477.4	465.0	102.7
61601 CENTRDC4 230	66756*SQBUTTE4 230	1	458.1	458.1	478.0	92.7
61641*HUBBARD7 115	61841 HUBBARD934.5	1	13.2	13.2	12.0	110.1
61641*HUBBARD7 115	61841 HUBBARD934.5	2	18.6	18.6	18.0	103.2
61642*VERNDLE7 115	61842 VERNDLE934.5	1	14.2	14.2	12.0	118.6
61642*VERNDLE7 115	61842 VERNDLE934.5	2	13.2	13.2	12.0	110.1
61642*VERNDLE7 115	61842 VERNDLE934.5	3	13.0	13.0	12.0	108.1
61721 ETCO 7 115	61722*FORBES 7 115	1	95.5	95.5	98.0	96.0
62933 HIGHLND869.0	62934*HOWARDL869.0	1	15.6	15.6	13.7	113.2
62933*HIGHLND869.0	62935 MAPLELK869.0	1	12.8	12.8	13.7	94.9
62934 HOWARDL869.0	62943*VICTOR 869.0	1	20.3	20.3	17.3	116.1
62980 MCLEOD 4 230	63054*PANTHER4 230	1	281.2	281.2	319.0	92.9
62985 HUTCHPK869.0	62986*HUTCHMN869.0	1	56.1	56.1	52.1	106.5
63041 COAL CR4 230	63000*COAL 41G22.0	1	589.2	589.2	566.0	104.1
63041 COAL CR4 230	63001*COAL 42G22.0	1	589.2	589.2	590.0	99.9
63049 STANTON4 230	63002*STANT41G18.0	1	194.6	194.6	210.0	92.7
63314 BIGSTON4 230	63315*BIGSTN1G24.0	1	468.5	468.5	471.5	99.4

```
63875 RAUN   3 345 63883*NEAL  3G22.0 1     524.3    524.3    560.0     93.6
63877 NEAL N 5 161 63882*NEAL  2G20.0 1     321.0    321.0    345.0     93.0
64062*DMOINES5 161 64631 DMSMID1869.0 1      81.8     81.8     80.0    102.3
64062*DMOINES5 161 64632 DMSMID2869.0 2      89.3     89.3     90.0     99.2
64192 GDMEC    345 64193*GDMECGT118.0 1     197.5    197.5    200.0     98.7
64192 GDMEC    345 64194*GDMECGT218.0 2     197.5    197.5    200.0     98.7
64203*NW FTDG5 161 64205 FT.DODG5 161 1     161.6    161.6    167.0     97.3
64203 NW FTDG5 161 64230*POMEROY5 161 1     218.4    218.4    173.0    126.5
64239*FRANKLN5 161 64285 BUTLER 5 161 1     267.1    267.1    181.0    148.6
64244 SAC GEN  161 64245*CLIPRG1934.5 1     166.3    166.3    100.0    166.3
64250 BLKHAWK5 161 64256*UNIONTP5 161 1     160.2    160.2    181.0     93.2
64256 UNIONTP5 161 64285*BUTLER 5 161 1     248.7    248.7    181.0    144.6
64256*UNIONTP5 161 64655 UNI MID869.0 1     100.1    100.1    100.0    100.1
64418*E MOLINE 161 64671 SB39MID869.0 1     114.7    114.7    125.0     91.8
66405*FTPECK 4 230 66414 FTPECK4G13.8 1      43.3     43.3     48.0     90.3
66441 GARRISN4 230 66457*GARISN1G13.8 1      93.1     93.1    100.0     93.1
66441 GARRISN4 230 66458*GARISN2G13.8 1      93.1     93.1    100.0     93.1
66441 GARRISN4 230 66459*GARISN3G13.8 1      93.1     93.1    100.0     93.1
66442*GARRISN7 115 66460 GARISN4G13.8 1      94.6     94.6    100.0     94.6
66442*GARRISN7 115 66461 GARISN5G13.8 1      98.9     98.9    100.0     98.9
66509 FTRANDL4 230 66549*FTRDL78G13.8 1      88.6     88.6     98.0     90.4
66510 FTRANDL7 115 66546*FTRDL12G13.8 1      88.5     88.5     98.0     90.3
66540 BIGBND14 230 66542*BGBND12G13.8 1     128.2    128.2    142.0     90.3
66563 SPENCER5 161 66580*SPENCR 869.0 1      54.1     54.1     60.0     90.2
66563 SPENCER5 161 66580*SPENCR 869.0 2      45.2     45.2     50.0     90.3
66565*SIOUXCY4 230 66567 DENISON4 230 1     241.9    241.9    240.0     99.4
66580 SPENCR 869.0 66581*SPENCER869.0 1     101.5    101.5    100.0    101.5
66581 SPENCER869.0 63710*WISDOM 869.0 1     110.5    110.5    110.0     99.1
66751*CENTER 4 230 66749 CENTER1G22.0 1     260.0    260.0    256.0    101.6
67105 LELANDO3 345 67111*LELAN32G20.0 1     451.9    451.9    495.0     91.3
67106*LELANDO4 230 67110 LELAN41G22.0 1     249.1    249.1    256.0     97.3
67316 COYOTE 3 345 67315*COYOTE1G24.0 1     453.3    453.3    428.0    105.9

                                            X------ BUS -----X V-CONT V-INIT  X------ BUS -----X V-CONT V-INIT
'GROUP2MON   ' BUSES WITH VOLTAGE GREATER THAN 1.0500: 60173 ROSEAUN2 500 1.0657 1.0657  60174 ROSEAUS2 500 1.0559 1.0559
                                            60657 BAYFRT8888.0 1.0606 1.0606  61063 RIVER F869.0 1.0893 1.0893
                                            62000 MARSHLK7 115 1.0660 1.0660  63214 BIGSTON7 115 1.0649 1.0649
                                            63215 HIWY12 7 115 1.0661 1.0661  63216 ORTONVL7 115 1.0693 1.0693
                                            63217 APPLETN7 115 1.0643 1.0643  63257 HENSEL 7 115 1.0585 1.0585
                                            64605 CB  MID5 161 1.0577 1.0577  66419 KILDEER7 115 1.0508 1.0508
                                            66422 HALIDAY7 115 1.0540 1.0540  66568 CRESTN 869.0 1.0621 1.0621
                                            66580 SPENCR 869.0 1.0923 1.0923  66705 DRAYTON7 115 1.0648 1.0648
                                            66788 DRAYTO2T 230 1.0666 1.0666  66796 HENSELU869.0 1.0739 1.0739
                                            67170 STEGALDC 230 1.0581 1.0581  67171 MBPP-1   230 1.0602 1.0602
                                            67308 BEULAH 7 115 1.0576 1.0576  67316 COYOTE 3 345 1.0501 1.0501
                                            67318 COYOTE 7 115 1.0631 1.0631
```

```
'GROUP2MON   ' BUSES WITH VOLTAGE LESS THAN 0.9500: 34286 ALEAWST869.0 0.9426 0.9426  34287 SBRDWAY869.0 0.9444 0.9444
                                                    34288 ALEA NW869.0 0.9388 0.9388  34289 FAIRGNT869.0 0.9474 0.9474
                                                    34290 FARMSTD869.0 0.9452 0.9452  34291 ALEA  E869.0 0.9475 0.9475
                                                    34292 ALEA19 869.0 0.9449 0.9449  34295 CO LINE869.0 0.9497 0.9497
                                                    60189 BLK DOG4 230 0.9369 0.9369  60695 DANUBE 869.0 0.9476 0.9476
                                                    60780 CLRKGNS869.0 0.9332 0.9332  62880 MATAWAN869.0 0.9265 0.9265
                                                    62881 ST OLAF869.0 0.9310 0.9310  62980 MCLEOD 4 230 0.9419 0.9419
                                                    64256 UNIONTP5 161 0.9492 0.9492  64411 GALESBR5 161 0.9385 0.9385
                                                    64682 GALEMID1 138 0.9385 0.9385  64683 GALEMID2 138 0.9385 0.9385
                                                    69054 SOUTH SH69.0 0.9495 0.9495  69199 BANCROFT69.0 0.9380 0.9380
```

APPENDIX C

DATA FILES USED FOR CONTINGENCY ANALYSIS

SUBSYSTEM DESCRIPTION FILE (GR2.SUB)

```
COM SYSTEM DESCRIPTION DATA for MAPP 2002 Series Models
COM SUBSYSTEM FILE FOR MISO/WAPA/GRE GROUP 2 STUDIES
COM

SYSTEM GROUP2
 JOIN 'REGION1'
  ZONES 600 604
  ZONE 616
  KVRANGE 69 500
 END
 JOIN 'REGION2'
  AREA 652
  KVRANGE 69 500
 END
 JOIN 'REGION3'
  AREA 618
  KVRANGE 69 500
 END
 JOIN 'REGION4'
  AREA 626
  KVRANGE 69 500
 END
JOIN 'REGION5'
  AREA 331
  KVRANGE 69 500
 END
END

SYSTEM GROUP2MON
 JOIN 'REGION1'
  ZONES 600 604
  ZONE 616
  KVRANGE 69 500
 END
 JOIN 'REGION2'
  AREA 652
  KVRANGE 69 500
 END
 JOIN 'REGION3'
  AREA 618
  KVRANGE 69 500
 END
 JOIN 'REGION4'
  AREA 626
  KVRANGE 69 500
 END
JOIN 'REGION5'
  AREA 331
  KVRANGE 69 500
 END
JOIN 'REGION6'
  AREA 608
  KVRANGE 100 500
END
JOIN 'REGION7'
  AREA 635
  KVRANGE 100 500
END
END

END
```

MONITORED ELEMENT FILE (GR2.MON)

```
COM MONITORED ELEMENT FILE FOR MISO/WAPA/GRE GROUP 2 STUDIES
COM
MONITOR BRANCHES IN SYSTEM GROUP2MON
MONITOR TIES FROM SYSTEM GROUP2MON
MONITOR VOLTAGE RANGE SYSTEM GROUP2MON 0.92 1.10
END
```

CONTINGENCY DESCRIPTION FILE (GR2.CON)

```
COM  CONTINGENCY FILE FOR MISO/WAPA/GRE GROUP 2 STUDIES
SINGLE BRANCH IN SYSTEM GROUP2
SINGLE TIE FROM SYSTEM GROUP2

COM  'Contingency Description File for MAPP 2003 Series Models'
COM  '=========================================================='
COM  '  Single outages in specified CONAREA  '
COM  '  NSP multiple-circuit towers (MCT)    '
COM  '  NSP multiple-terminal lines (MTL)    '
COM  '  Removed contingency 530-not valid-By Seshadri based on XEL inputs - 09/22/03
COM  '  Closed Aldrich breakers in Medicin Lk-SLP line for contingencies -MEL-BCR/CDR7 and
PKL-CDR/BCR7
COM  '  and MEL-BCR/PKL7
COM
COM '================================================================='
COM '  XCEL ENERGY MULTIPLE-CIRCUIT TOWER CONTINGENCIES (MCT) > 1 mile '
COM ' '
COM '  Planning MCT contingencies'
COM '  D.K. Duebner - 2003 June 3 updated for MAPP 2003 Series '
COM ' '
COM ' MINNESOTA AREA CONTINGENCIES'
COM ' '
COM ' Twin Cities 345 kV double circuit outages.'
COM ' '
COM '73'
COM 'Sherco-Coon Creek/Bunker Lake 345 #1 and #2'
CONTINGENCY 'SHC-CNC/BUL3'
TRIP LINE FROM BUS 60160 TO BUS 60202 CKT 1
TRIP LINE FROM BUS 60160 TO BUS 63031 CKT 1
END
COM '74'
COM 'Sherco-Coon Creek and Monti-Elm Creek 345 '
CONTINGENCY 'SHC-CNC/ECK3'
TRIP LINE FROM BUS 60160 TO BUS 60272 CKT 1
TRIP LINE FROM BUS 60151 TO BUS 60114 CKT 1
END
COM '75'
COM 'Coon Creek-Sherco and Coon Creek-Bunker Lake 345 '
CONTINGENCY 'CNC-SHC/BUL3'
TRIP LINE FROM BUS 60202 TO BUS 60160 CKT 1
TRIP LINE FROM BUS 60202 TO BUS 63031 CKT 1
END
COM '76'
COM 'Coon Creek-Kohlman Lake/Terminal 345 '
CONTINGENCY 'CNC-KOL/TER3'
TRIP LINE FROM BUS 60202 TO BUS 60221 CKT 1
TRIP LINE FROM BUS 60202 TO BUS 60251 CKT 1
END
COM '77'
COM 'Coon Creek-Dickinson/Sherco 345 '
CONTINGENCY 'CNC-DKN/SHC3'
TRIP LINE FROM BUS 60202 TO BUS 63030 CKT 1
TRIP LINE FROM BUS 60202 TO BUS 60272 CKT 1
END
COM '78'
COM 'Dickinson-Coon Creek/Parkers Lake 345'
CONTINGENCY 'DKN-CNC/PKL3'
TRIP LINE FROM BUS 63030 TO BUS 60202 CKT 1
TRIP LINE FROM BUS 63030 TO BUS 60270 CKT 1
END
COM '79'
COM 'Parkers Lake-Dickinson/Elm Creek 345 '
CONTINGENCY 'PKL-DKN/ECK3'
TRIP LINE FROM BUS 60233 TO BUS 60270 CKT 1
TRIP LINE FROM BUS 60233 TO BUS 60114 CKT 1
END
COM '80'
COM 'Parkers Lake-Eden Prairie/Blue Lake 345'
CONTINGENCY 'PKL-EDP/BLL3'
TRIP LINE FROM BUS 60233 TO BUS 60262 CKT 1
TRIP LINE FROM BUS 60233 TO BUS 60192 CKT 1
END
COM '81'
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COM 'Blue Lake-Eden Prairie/Parkers Lake 345 '
CONTINGENCY 'BLL-EDP/PKL3'
TRIP LINE FROM BUS 60192 TO BUS 60262 CKT 1
TRIP LINE FROM BUS 60192 TO BUS 60233 CKT 1
END
COM '82'
COM 'Blue Lake-Prairie Island/Inver Hills 345 '
COM 'or Blue Lake - Dakota Co/Inver Hills 345 '
CONTINGENCY 'BLL-PRI/IVH3'
TRIP LINE FROM BUS 60192 TO BUS 60105 CKT 1
TRIP LINE FROM BUS 60192 TO BUS 60217 CKT 1
END
COM '83'
COM 'Kohlman Lake-Coon Creek/Terminal 345 '
CONTINGENCY 'KOL-CNC/TER3'
TRIP LINE FROM BUS 60221 TO BUS 60202 CKT 1
TRIP LINE FROM BUS 60221 TO BUS 60251 CKT 1
END
COM '84'
COM 'Kohlman Lake-King/Chisago 345 '
CONTINGENCY 'KOL-ASK/CHI3'
TRIP LINE FROM BUS 60221 TO BUS 60186 CKT 1
TRIP LINE FROM BUS 60221 TO BUS 60199 CKT 1
END
COM '85'
COM 'Chisago-Kohlman Lake/King 345'
CONTINGENCY 'CHI-KOL/ASK3'
TRIP LINE FROM BUS 60199 TO BUS 60221 CKT 1
TRIP LINE FROM BUS 60199 TO BUS 60186 CKT 1
END
COM '86'
COM 'King-Chisago/Kohlman Lake 345 '
CONTINGENCY 'ASK-CHI/KOL3'
TRIP LINE FROM BUS 60186 TO BUS 60199 CKT 1
TRIP LINE FROM BUS 60186 TO BUS 60221 CKT 1
END
COM '87'
COM 'King-Red Rock/Eau Claire(-Arpin) 345'
CONTINGENCY 'ASK-RRK/ECL3'
TRIP LINE FROM BUS 60186 TO BUS 60236 CKT 1
TRIP LINE FROM BUS 60186 TO BUS 60304 CKT 1
TRIP LINE FROM BUS 60304 TO BUS 39244 CKT 1
END
COM '88'
COM 'Inver Hills-Blue Lake/Red Rock 345'
CONTINGENCY 'IVH-BLL/RRK3'
TRIP LINE FROM BUS 60217 TO BUS 60192 CKT 1
TRIP LINE FROM BUS 60217 TO BUS 60236 CKT 1
END
COM '89'
COM 'Prairie Island-Red Rock #1 and #2 345'
CONTINGENCY 'PRI-RRK/RRK3'
TRIP LINE FROM BUS 60105 TO BUS 60236 CKT 1
TRIP LINE FROM BUS 60105 TO BUS 60236 CKT 2
END
COM '90'
COM 'Prairie Island-Blue Lake/Red Rock 345'
CONTINGENCY 'PRI-BLL/RRK3'
TRIP LINE FROM BUS 60105 TO BUS 60192 CKT 1
TRIP LINE FROM BUS 60105 TO BUS 60236 CKT 1
END
COM '91'
COM 'Prairie Island-Byron/Red Rock 345'
CONTINGENCY 'PRI-BYN/RRK3'
TRIP LINE FROM BUS 60105 TO BUS 61950 CKT 1
TRIP LINE FROM BUS 60105 TO BUS 60236 CKT 2
END
COM ' '
COM ' '
COM ' Minnesota 161 kV and 115 kV multiple circuit outages'
COM ' '
COM ' '
COM '2'
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COM 'Blue Lake-Wilmarth 345 and Hyland Lake-Dean Lake-Scott Co 115'
CONTINGENCY 'X0982-0898o1'
TRIP LINE FROM BUS 60192 TO BUS 60108 CKT 1
TRIP LINE FROM BUS 60215 TO BUS 60261 CKT 1
TRIP LINE FROM BUS 60261 TO BUS 60244 CKT 1
END
CONTINGENCY 'X0982-0898p1'
TRIP LINE FROM BUS 60192 TO BUS 60108 CKT 1
TRIP LINE FROM BUS 60215 TO BUS 60261 CKT 1
END
CONTINGENCY 'X0982-0898p2'
TRIP LINE FROM BUS 60192 TO BUS 60108 CKT 1
TRIP LINE FROM BUS 60261 TO BUS 60244 CKT 1
END
COM '3'
COM 'Hyland Lake-Blue Lake/Dean Lake 115'
CONTINGENCY 'X0897-0898o1'
TRIP LINE FROM BUS 60215 TO BUS 60193 CKT 1
TRIP LINE FROM BUS 60215 TO BUS 60261 CKT 1
TRIP LINE FROM BUS 60261 TO BUS 60244 CKT 1
END
CONTINGENCY 'HYL-BLL/DLK7'
TRIP LINE FROM BUS 60215 TO BUS 60193 CKT 1
TRIP LINE FROM BUS 60215 TO BUS 60261 CKT 1
END
COM '4'
COM 'Scott Co-MN River 115 and Scott Co-Excelsior 69'
CONTINGENCY 'SCO-MRR/EXC7'
TRIP LINE FROM BUS 60244 TO BUS 60367 CKT 1
TRIP LINE FROM BUS 60890 TO BUS 60889 CKT 1
END
COM '5'
COM 'Chisago-Wyoming 115 and Chisago-Lindstrom 69 or 115 '
CONTINGENCY 'CHI-WYO/LIN7'
TRIP LINE FROM BUS 60196 TO BUS 60345 CKT 1
TRIP LINE FROM BUS 60196 TO BUS 60920 CKT c1
END
COM '6'
COM 'Elm Creek-Hassan 115 and Elm Creek-Champlin tap 115 '
CONTINGENCY 'ECK-HAS/CHM7'
TRIP LINE FROM BUS 60115 TO BUS 60269 CKT 1
TRIP LINE FROM BUS 60115 TO BUS 60177 CKT 1
END
COM '8 '
COM 'Benton Co-Granite City/St Cloud 115 '
CONTINGENCY 'BEN-GRC/SCL7'
TRIP LINE FROM BUS 60143 TO BUS 60146 CKT 1
TRIP LINE FROM BUS 60143 TO BUS 60348 CKT 1
TRIP LINE FROM BUS 60348 TO BUS 60157 CKT 1
END
COM '9 '
COM 'Byron-West Owatonna 161 and Byron-Kasson 69 '
CONTINGENCY 'BYN-WOW/KAN5'
TRIP LINE FROM BUS 61948 TO BUS 61964 CKT 1
TRIP LINE FROM BUS 61161 TO BUS 60799 CKT 1
END
COM '10 '
COM 'Red Rock-Afton/Woodbury 115'
CONTINGENCY 'RRK-AFT/WDY7'
TRIP LINE FROM BUS 60238 TO BUS 60179 CKT 1
TRIP LINE FROM BUS 60238 TO BUS 60344 CKT 1
END
COM '11 '
COM 'Riverside-Twin Lake/Brooklyn Park 115'
CONTINGENCY 'RIV-TWL/BRP7'
TRIP LINE FROM BUS 60240 TO BUS 60253 CKT 1
TRIP LINE FROM BUS 60240 TO BUS 60268 CKT 1
END
COM '12 '
COM 'Dickinson-Crow River/St Boni 115 '
CONTINGENCY 'DKN-CRO/STB7'
TRIP LINE FROM BUS 62925 TO BUS 60206 CKT 1
TRIP LINE FROM BUS 62925 TO BUS 62667 CKT 1
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END
COM '13 '
COM 'Red Rock-King 345 and Red Rock-Cottage Grove 115 '
CONTINGENCY 'RRK-ASK/CGR7'
TRIP LINE FROM BUS 60236 TO BUS 60186 CKT 1
TRIP LINE FROM BUS 60238 TO BUS 60204 CKT 1
END
COM '14 '
COM 'Southtown-Shepard/Cedarvale 115'
CONTINGENCY 'SOU-SHP/CDV7'
TRIP LINE FROM BUS 60246 TO BUS 60245 CKT 1
TRIP LINE FROM BUS 60246 TO BUS 60195 CKT 1
END
COM '17 '
COM 'Riverside-MST/FST/ELP 115 '
CONTINGENCY 'RIV triple'
TRIP LINE FROM BUS 60240 TO BUS 60226 CKT 1
TRIP LINE FROM BUS 60240 TO BUS 60209 CKT 1
TRIP LINE FROM BUS 60240 TO BUS 60210 CKT 1
END
COM '18 '
COM 'Monticello-Hassan/Lake Pulaski 115'
CONTINGENCY 'MNN-HSN/LAP7'
TRIP LINE FROM BUS 60153 TO BUS 60269 CKT 1
TRIP LINE FROM BUS 60153 TO BUS 60155 CKT 1
END
COM '19 '
COM 'W Hasting-Chemolite 115 and W Hastings-Hastings 69 '
CONTINGENCY 'WEH-CHE/HAS7'
TRIP LINE FROM BUS 60342 TO BUS 60201 CKT 1
TRIP LINE FROM BUS 62258 TO BUS 60915 CKT 1
END
COM '20 '
COM 'Parkers Lake-Gleason Lake 115 '
CONTINGENCY 'PKL-GSL 115'
TRIP LINE FROM BUS 60234 TO BUS 60211 CKT 1
TRIP LINE FROM BUS 60234 TO BUS 60211 CKT 2
END
COM '22 '
COM ' Parkers Lake-St Louis Park/Basset Creek 115'
COM ' or Parkers Lake-Cedar Lake/Basset Creek 115'
CONTINGENCY 'PKL-CDR/BCR7'
TRIP LINE FROM BUS 60234 TO BUS 60346 CKT P1
TRIP LINE FROM BUS 60234 TO BUS 60259 CKT 1
close line from bus 60181 to bus 60182 ckt 1
END
COM '23 '
COM 'Carver Co-W Waconia/Augusta 115/69 '
CONTINGENCY 'CAR-WWK/AGA7'
TRIP LINE FROM BUS 60194 TO BUS 60277 CKT 1
TRIP LINE FROM BUS 60931 TO BUS 62676 CKT 1
END
COM '24 '
COM 'Riverside-West River Road 115 '
CONTINGENCY 'RIV-WRR7'
TRIP LINE FROM BUS 60240 TO BUS 60355 CKT 1
TRIP LINE FROM BUS 60240 TO BUS 60355 CKT 2
END
COM '27'
COM 'Terminal-Rose Place 115 & Terminal-Apache-Arden Hills 115 '
CONTINGENCY 'TER-RPL/AHI7'
TRIP LINE FROM BUS 60252 TO BUS 60241 CKT 1
TRIP LINE FROM BUS 60252 TO BUS 60184 CKT 1
TRIP LINE FROM BUS 60184 TO BUS 60183 CKT 1
TRIP LINE FROM BUS 60184 TO BUS 60185 CKT 1
END
CONTINGENCY 'X0802-0803p1'
TRIP LINE FROM BUS 60252 TO BUS 60241 CKT 1
TRIP LINE FROM BUS 60252 TO BUS 60184 CKT 1
TRIP LINE FROM BUS 60184 TO BUS 60183 CKT 1
END
CONTINGENCY 'X0802-0803p2'
TRIP LINE FROM BUS 60252 TO BUS 60241 CKT 1
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TRIP LINE FROM BUS 60252 TO BUS 60184 CKT 1
TRIP LINE FROM BUS 60184 TO BUS 60185 CKT 1
END
COM '28 '
COM 'Aldrich-Indiana/Medicine Lake 115 '
CONTINGENCY 'ALD-IDA/MEL7'
TRIP LINE FROM BUS 60181 TO BUS 60216 CKT 1
TRIP LINE FROM BUS 60182 TO BUS 60227 CKT 1
END
COM '29 '
COM 'Eden Prairie-Westgate 115'
CONTINGENCY 'EDP-WSG/WSG7'
TRIP LINE FROM BUS 60263 TO BUS 60256 CKT 1
TRIP LINE FROM BUS 60263 TO BUS 60256 CKT 2
END
COM '30'
COM 'Red Rock-Battle Creek 115 dbl ckt'
CONTINGENCY 'RRK-BCK/MAX7'
TRIP LINE FROM BUS 60238 TO BUS 60266 CKT p2
TRIP LINE FROM BUS 60238 TO BUS 60336 CKT 1
END
CONTINGENCY 'BCK-RRK/MAX'
TRIP LINE FROM BUS 60266 TO BUS 60238 CKT p2
TRIP LINE FROM BUS 60267 TO BUS 60336 CKT 1
END
COM '31 '
COM 'St Cloud-Wakefield/Sauk River 115 '
CONTINGENCY 'SCL-SAK/WAK7'
TRIP LINE FROM BUS 60157 TO BUS 60159 CKT 1
TRIP LINE FROM BUS 60157 TO BUS 60154 CKT 1
END
COM '33 '
COM 'Shepard-High Bridge/Southtown 115 '
CONTINGENCY 'SHP-HBR/SOU7'
TRIP LINE FROM BUS 60245 TO BUS 60214 CKT 1
TRIP LINE FROM BUS 60245 TO BUS 60246 CKT 1
END
COM '34 '
COM 'Scott Co-South Shakopee/Carver Co 115 '
CONTINGENCY 'SCO-SSK/CAR7'
TRIP LINE FROM BUS 60244 TO BUS 62975 CKT 1
TRIP LINE FROM BUS 60244 TO BUS 60243 CKT 1
TRIP LINE FROM BUS 60243 TO BUS 60194 CKT 1
TRIP LINE FROM BUS 60243 TO BUS 62666 CKT 1
END
COM '36 '
COM 'St Louis Park-Medicine Lake/Parkers Lake 115 '
COM 'or St Louis Park-Medicine Lake/Cedar Lake 115 '
COM 'Double circuit north of SLP sub '
CONTINGENCY 'SLP-MEL/PKL7'
TRIP LINE FROM BUS 60249 TO BUS 60182 CKT p1
TRIP LINE FROM BUS 60249 TO BUS 60346 CKT p1
TRIP LINE FROM BUS 60346 TO BUS 60234 CKT P1
END
CONTINGENCY 'SLP-MEL/CDR7'
TRIP LINE FROM BUS 60249 TO BUS 60182 CKT P1
TRIP LINE FROM BUS 60249 TO BUS 60346 CKT P1
END
COM '37 '
COM 'Twin Lake-Coon Creek/Riverside 115 '
CONTINGENCY 'TWL-CNC/RIV7'
TRIP LINE FROM BUS 60253 TO BUS 60203 CKT 1
TRIP LINE FROM BUS 60253 TO BUS 60240 CKT 1
END
COM '39 '
COM 'Moore Lake-Riverside/Coon Creek 115 '
CONTINGENCY 'MOL-RIV/CNC7'
TRIP LINE FROM BUS 60229 TO BUS 60203 CKT 1
TRIP LINE FROM BUS 60229 TO BUS 60240 CKT 1
END
COM '40 '
COM 'Medicine Lake-Aldrich and Parkers Lake-St Louis Park 115'
COM 'Double circuit east of MEL sub'
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CONTINGENCY 'MEL-ALD/SLP7'
TRIP LINE FROM BUS 60227 TO BUS 60182 CKT 1
TRIP LINE FROM BUS 60234 TO BUS 60346 CKT P1
TRIP LINE FROM BUS 60249 TO BUS 60346 CKT P1
END
CONTINGENCY 'MEL-ALD/CDR7'
TRIP LINE FROM BUS 60227 TO BUS 60182 CKT 1
TRIP LINE FROM BUS 60234 TO BUS 60346 CKT P1
END
COM '41 '
COM 'Spring Creek-Prairie Island/Cannon Falls 161 line GRE'
CONTINGENCY 'SPC-PRI/CTF5'
TRIP LINE FROM BUS 63071 TO BUS 60106 CKT 1
TRIP LINE FROM BUS 63071 TO BUS 60103 CKT 1
END
COM '42 '
COM 'Parkers Lake-St Louis Park 115 and Medicine Lake-Basset Creek 115 '
COM ' Double circuit west of MEL sub. '
CONTINGENCY 'MEL-BCR/PKL7'
TRIP LINE FROM BUS 60227 TO BUS 60259 CKT 1
TRIP LINE FROM BUS 60234 TO BUS 60346 CKT P1
TRIP LINE FROM BUS 60249 TO BUS 60346 CKT P1
close line from bus 60181 to bus 60182 ckt 1
END
CONTINGENCY 'MEL-BCR/CDR7'
TRIP LINE FROM BUS 60227 TO BUS 60259 CKT 1
TRIP LINE FROM BUS 60234 TO BUS 60346 CKT P1
close line from bus 60181 to bus 60182 ckt 1
END
COM '44 '
COM 'Edina-Eden Prairie/Nine Mile Creek 115 '
CONTINGENCY 'EDA-EDP/NMC7'
TRIP LINE FROM BUS 60208 TO BUS 60263 CKT 1
TRIP LINE FROM BUS 60208 TO BUS 60280 CKT 1
END
COM '================================================================ '
COM ' '
COM ' Dakotas multiple circuit tower outages'
COM ' '
COM '16 '
COM 'Sheyenne-Cass Co #1 and #2 115'
CONTINGENCY 'SHY-CAS/CAS7'
TRIP LINE FROM BUS 60134 TO BUS 60135 CKT 1
TRIP LINE FROM BUS 60134 TO BUS 66761 CKT 1
END
COM '21 '
COM 'Split Rock-Cherry Creek/W Sioux Falls 115 '
CONTINGENCY 'SPK-CHC/WSF7'
TRIP LINE FROM BUS 60129 TO BUS 60117 CKT 1
TRIP LINE FROM BUS 60129 TO BUS 60132 CKT 1
END
COM '26 '
COM 'Prairie-Nordic 115 1&2 '
CONTINGENCY 'PRA-NOR 7s'
TRIP LINE FROM BUS 66712 TO BUS 60141 CKT 1
TRIP LINE FROM BUS 66712 TO BUS 60141 CKT 2
END
COM '================================================================'
COM ' '
COM 'Start of Wisconsin multiple circuit outages'
COM '1'
COM 'Park Falls-Osprey 115 and Park Falls-Crane Chase 115'
CONTINGENCY 'PFA-OPY/LUG7'
TRIP LINE FROM BUS 60298 TO BUS 60283 CKT 1
TRIP LINE FROM BUS 60297 TO BUS 60283 CKT 1
TRIP LINE FROM BUS 60298 TO BUS 60303 CKT 1
TRIP LINE FROM BUS 60303 TO BUS 69120 CKT 1
END
COM '7'
COM ' Willow River-King 115 and Willow River-Pine Lake 115'
CONTINGENCY 'WLR-ASK/PNL7'
TRIP LINE FROM BUS 60325 TO BUS 60187 CKT 1
TRIP LINE FROM BUS 60325 TO BUS 60313 CKT 1
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END
COM '15'
COM 'Bay Front-Gingles 115 and Bay Front-Saxon Pump 88 '
CONTINGENCY 'BFT-GNG/SAX7'
TRIP LINE FROM BUS 60295 TO BUS 60350 CKT 1
TRIP LINE FROM BUS 60657 TO BUS 61104 CKT 1
END
COM '25'
COM 'Gingles-Hurley 115 and Bay Front-Saxon Pump 88 '
CONTINGENCY 'GNG-HUR/SAX7'
TRIP LINE FROM BUS 60350 TO BUS 60289 CKT 1
TRIP LINE FROM BUS 60657 TO BUS 61104 CKT 1
END
COM '35'
COM ' Red Cedar-Crystal Cave 161 and Red Cedar-Wheaton tap 161'
CONTINGENCY 'RCD-CRY/WHT5'
TRIP LINE FROM BUS 60282 TO BUS 60329 CKT 1
TRIP LINE FROM BUS 60282 TO BUS 60319 CKT 1
END
COM '38'
COM ' Hydro Lane-Eagle Point 115 and Hydro Lane-Jim Falls 115'
CONTINGENCY 'HYD-EGP/JIM7'
TRIP LINE FROM BUS 60321 TO BUS 60285 CKT 1
TRIP LINE FROM BUS 60321 TO BUS 60326 CKT 1
END
COM '43'
COM 'Pine Lake-Pine Lake tap 161 and Pine Lake-Eagle Point 115'
CONTINGENCY 'PNL-Tap/EGP7'
TRIP LINE FROM BUS 60312 TO BUS 60314 CKT 1
TRIP LINE FROM BUS 60313 TO BUS 60285 CKT 1
END
COM '  XCEL ENERGY MULTI-TERMINAL LINE OUTAGES (MTL)'
COM ' '
COM ' '
COM ' 009 Defined as multi-circuit, tower'
COM ' Both 63030-60270-60233 and 63030-60202 must trip for the Coal'
COM ' Creek to Dickinson DC line to trip.  The DC will'
COM ' carry 1000 MW if only one of these lines trip'
COM ' SET BUS 63000 AND 63001 = PGEN + PLOAD = xxx.0 and xxx.0'
COM ' SET BUS 63041 AND 63030 ALWAYS ZERO FOR DC TRIP'
COM 'A 60160-60272 SHERCO 3-MPLEGV23 CKT 1   OPENS  C or D or E tower, MTL B,H,I,J'
COM 'B 60272-60202 MPLEGV23-COON CK3 CKT 1   OPENS  E or G tower, MTL A,H,I,J'
COM 'C 60151-60160 MNTCELO3-SHERCO 3 CKT 1   OPENS  A  tower'
COM 'D 60151-60114 MNTCELO3-ELM CRK3 CKT 1   OPENS  A  R of W,  tower,  MTL E'
COM 'E 60114-60233 ELM CRK3-PARKERS3 CKT 1   OPENS  A or F,  R of W, tower,  MTL D'
COM 'F 63030-60270 DICKNSN3-MPLEGV13 CKT 1   OPENS  E or G  tower, F G trip DC line'
COM '  60270-60233 MPLEGV13-PARKERS3 CKT 1   OPENS  with F'
COM 'G 63030-60202 DICKNSN3-COON CK3 CKT 1   OPENS  B or F  tower, F G trip DC line'
COM '   Muti-circuit outage of transformer with Dummy Bus and dummy ownership bus'
COM 'A 60160-60272 SHERCO 3-MPLEGV23 CKT 1   OPENS  B,H,I,J  MTL'
COM 'H 60202-61488 COON CK3-CNCMID1Y CKT 1   OPENS  A,B,I,J  MTL'
COM 'I 60203-61488 COON CK7-CNCMID1Y CKT 1   OPENS  A,B,H,J  MTL'
COM 'J 60656-61488 CNCTER19-CNCMID1Y CKT 1   OPENS  A,B,H,I  MTL'
COM 'B 60272-60202 MPLEGV23-COON CK3 CKT 1   OPENS  A,H,I,J  MTL'
COM '-------------------------------------------------------------'
CONTINGENCY '009   1'
COM 'Tower A with C and, B,H,I,J multi-terminal response'
TRIP LINE FROM BUS 60160 TO BUS 60272 CKT 1
TRIP LINE FROM BUS 60272 TO BUS 60202 CKT 1
TRIP LINE FROM BUS 60151 TO BUS 60160 CKT 1
TRIP LINE FROM BUS 60202 TO BUS 61488 CKT 1
TRIP LINE FROM BUS 61488 TO BUS 60203 CKT 1
TRIP LINE FROM BUS 61488 TO BUS 60656 CKT 1
END
CONTINGENCY '009   2'
COM 'Tower A with D with E and, B,H,I,J multi-terminal response'
TRIP LINE FROM BUS 60160 TO BUS 60272 CKT 1
TRIP LINE FROM BUS 60272 TO BUS 60202 CKT 1
TRIP LINE FROM BUS 60151 TO BUS 60114 CKT 1
TRIP LINE FROM BUS 60114 TO BUS 60233 CKT 1
TRIP LINE FROM BUS 60202 TO BUS 61488 CKT 1
TRIP LINE FROM BUS 61488 TO BUS 60203 CKT 1
TRIP LINE FROM BUS 61488 TO BUS 60656 CKT 1
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END
CONTINGENCY '009   4'
COM 'Tower G with B and, A,H,I,J multi-terminal response'
TRIP LINE FROM BUS 60160 TO BUS 60272 CKT 1
TRIP LINE FROM BUS 60272 TO BUS 60202 CKT 1
TRIP LINE FROM BUS 63030 TO BUS 60202 CKT 1
TRIP LINE FROM BUS 60202 TO BUS 61488 CKT 1
TRIP LINE FROM BUS 61488 TO BUS 60203 CKT 1
TRIP LINE FROM BUS 61488 TO BUS 60656 CKT 1
END
CONTINGENCY '009   5'
COM 'Tower DC with Elm Crk-Parkers'
TRIP LINE FROM BUS 60114 TO BUS 60233 CKT 1
TRIP LINE FROM BUS 63030 TO BUS 60270 CKT 1
TRIP LINE FROM BUS 60270 TO BUS 60233 CKT 1
END
CONTINGENCY '009   6'
COM 'Transformer multi-terminal outage, A,B,H,I,J'
TRIP LINE FROM BUS 60160 TO BUS 60272 CKT 1
TRIP LINE FROM BUS 60272 TO BUS 60202 CKT 1
TRIP LINE FROM BUS 60202 TO BUS 61488 CKT 1
TRIP LINE FROM BUS 61488 TO BUS 60203 CKT 1
TRIP LINE FROM BUS 61488 TO BUS 60656 CKT 1
END
CONTINGENCY '009   7'
COM 'Tower A with E and, multi-terminal response B,H,I,J'
TRIP LINE FROM BUS 60160 TO BUS 60272 CKT 1
TRIP LINE FROM BUS 60272 TO BUS 60202 CKT 1
TRIP LINE FROM BUS 60114 TO BUS 60233 CKT 1
TRIP LINE FROM BUS 60202 TO BUS 61488 CKT 1
TRIP LINE FROM BUS 61488 TO BUS 60203 CKT 1
TRIP LINE FROM BUS 61488 TO BUS 60656 CKT 1
END
CONTINGENCY '009   8'
COM 'Tower E with F with A and, responding multi-terminal B,H,I,J'
TRIP LINE FROM BUS 60114 TO BUS 60233 CKT 1
TRIP LINE FROM BUS 60160 TO BUS 60272 CKT 1
TRIP LINE FROM BUS 60272 TO BUS 60202 CKT 1
TRIP LINE FROM BUS 63030 TO BUS 60202 CKT 1
TRIP LINE FROM BUS 60202 TO BUS 61488 CKT 1
TRIP LINE FROM BUS 61488 TO BUS 60203 CKT 1
TRIP LINE FROM BUS 61488 TO BUS 60656 CKT 1
END
COM ' 022  Defined as tower and multi-terminal combinations'
COM ' South end of the 500 kV line.'
COM ' '
COM ' Loss of both Chisago County transfomers will cause a'
COM ' multi-circuit loss of the Forbes-Chisago 500 kV line'
COM ' Since the 500 kV line is opened a DC reduction'
COM ' may be required, as measured at Dorsey bus 67564,'
COM ' if flows are 350 MW or higher on Forbes-Chisago'
COM ' 500 kV line.  The flow on Forbes-Chisago is less'
COM ' than 350 MW (419 MW) therefore, a DC reduction is '
COM ' required for the trip of both Chisago County transformers'
COM ' See PART 2 and 7 below.
COM ' '
COM ' A B C is tower only'
COM ' A B C Tower and multi-terminal combination are in part 1 below'
COM 'A 60202-60221 COON CK3-KOLMNLK3   OPENS  B  C tower and MTL'
COM 'B 60221-60251 KOLMNLK3-TERMINL3   OPENS  A  C tower and MTL'
COM 'C 60202-60251 COON CK3-TERMINL3   OPENS  A  B tower and MTL'
COM '**   Defined as multi-circuit, tower'
COM ' D E F is tower only'
COM 'Note: Both D and E must be opened for the Chisago transformers'
COM '      to open.  D and E alone do not open any Chisago transformer(s).'
COM ' D E F Tower and multi-terminal combination are in part 2 below'
COM 'D 60186-60199 AS KING3-CHIS CO3   OPENS  E  F tower'
COM 'E 60199-60221 CHIS CO3-KOLMNLK3   OPENS  D  F tower and MTL'
COM 'F 60186-60221 AS KING3-KOLMNLK3   OPENS  D  E tower and MTL'
COM '**    Defined as multi-terminal'
COM ' G and H are described in part 11 below'
COM 'G 60199-60221 CHIS CO3-KOLMNLK3       OPENS  H'
COM 'H 60221-60222 KOLMNLK3-KOLMNLK7 CKT 2 OPENS  G'
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COM '**    Defined as multi-terminal'
COM ' I and J are described in part 9 below'
COM 'I 60202-60221 COON CK3-KOLMNLK3       OPENS  J'
COM 'J 60221-60222 KOLMNLK3-KOLMNLK7 CKT 1 OPENS  I'
COM '**    Defined as multi-terminal'
COM 'K and L are described in part 12 below'
COM 'K  60221-60251 KOLMNLK3-TERMINL3      OPENS  L1 L2 L3'
COM 'L1 60251-61492 TERMINL3-TERMID1Y      OPENS  K  L2 L3'
COM 'L2 61492-60252 TERMID1Y-TERMINL7      OPENS  K  L1 L3'
Com 'L3 61492-61187 TERMID1Y-TERTER19      OPENS  K  L1 L2'
COM '**    Defined as multi-terminal'
COM ' M and N are described in part 10 below'
COM 'M  60202-60251 COON CK3-TERMINL3      OPENS  N'
COM 'N1 60251-61491 TERMINL3-TERMID2Y      OPENS  M  N2 N3'
COM 'N2 61491-60252 TERMID2Y-TERMINL7      OPENS  M  N1 N3'
Com 'N3 61491-61188 TERMID2Y-TERTER29      OPENS  M  N1 N2'
COM '**    Defined as multi-terminal'
COM ' R S T are dexcribed in part 13 below'
COM 'R  60199-61493 CHIS CO3-CHIS D17     OPENS S T'
COM 'S  60653-61493 CHIS T19-CHIS D17     OPENS R T'
COM 'T  60197-61493 CHIS CO2-CHIS D17     OPENS R S'
COM '**    Defined as multi-circuit'
COM 'U  60197-60198 CHIS CO2-CHIS-N 2     OPENS V'
COM 'V  60198-60101 CHIS-N 2-FORBES 2     OPENS U AND MAY REDUCE DC'
COM '**    Defined as multi-terminal'
COM 'W X Y are dexcribed in part 14 below'
COM 'W  60197-61494 CHIS CO2-CHIS D27     OPENS X Y'
COM 'X  60199-61494 CHIS CO3-CHIS D27     OPENS W Y'
COM 'Y  60654-61494 CHIS T29-CHIS D27     OPENS X W'
COM ' NO DC REDUCTION ON ITEM 2 & 7 BELOW, IF FLOW IS'
COM ' LESS THAN 500 MW FORBES-CHISAGO. However there'
COM ' is a 26% reduction for bypassing the two capacitor'
COM ' banks at Forbes.'
COM ' 60101-60198 FLOW = 136.0 MW, REDUCE DC  0% FOR'
COM ' FLOW OUT OF BUS 67564 but,  reduce 26% for bypassing'
COM ' the Forbes capacitor bank.'
COM ' Will simulate worst case only, reduction of 81.0 MW'
COM '-----------------------------------------------------------'
CONTINGENCY '022       1'
COM 'Tower outage A B C and resulting multi-terminals'
TRIP LINE FROM BUS 60202 TO BUS 60221 CKT 1
TRIP LINE FROM BUS 60221 TO BUS 60251 CKT 1
TRIP LINE FROM BUS 60202 TO BUS 60251 CKT 1
COM 'Also trips the following because of A where'
COM 'A is the same as MTL I'
TRIP LINE FROM BUS 60221 TO BUS 60222 CKT 1
COM 'Also trips the following because of B where'
COM 'B is the same as MTL K'
TRIP LINE FROM BUS 60251 TO BUS 61492 CKT 1
TRIP LINE FROM BUS 61492 TO BUS 60252 CKT 1
TRIP LINE FROM BUS 61492 TO BUS 61187 CKT 1
COM 'Also trips the following because of C where'
COM 'C is the same as MTL M'
TRIP LINE FROM BUS 60251 TO BUS 61491 CKT 1
TRIP LINE FROM BUS 61491 TO BUS 60252 CKT 1
TRIP LINE FROM BUS 61491 TO BUS 61188 CKT 1
END
CONTINGENCY '022       3'
COM 'Tower outage and resulting multi-terminal'
COM '60202-60221 and 60202-60251 is the tower outage A,C'
TRIP LINE FROM BUS 60202 TO BUS 60221 CKT 1
TRIP LINE FROM BUS 60202 TO BUS 60251 CKT 1
COM 'Also trips the following because of A where'
COM 'A is the same as MTL I'
TRIP LINE FROM BUS 60221 TO BUS 60222 CKT 1
COM 'Also trips the following because of C where'
COM 'C is the same as MTL M'
TRIP LINE FROM BUS 60251 TO BUS 61491 CKT 1
TRIP LINE FROM BUS 61491 TO BUS 60252 CKT 1
TRIP LINE FROM BUS 61491 TO BUS 61188 CKT 1
END
CONTINGENCY '022       4'
COM 'Tower outage and resulting multi-terminal'
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COM '60202-60221 and 60221-60251 is the tower outage, A,B'
TRIP LINE FROM BUS 60202 TO BUS 60221 CKT 1
TRIP LINE FROM BUS 60221 TO BUS 60251 CKT 1
COM 'Also trips the following because of A where'
COM 'A is the same as MTL I'
TRIP LINE FROM BUS 60221 TO BUS 60222 CKT 1
COM 'Also trips the following because of B where'
COM 'B is the same as MTL K'
TRIP LINE FROM BUS 60251 TO BUS 61492 CKT 1
TRIP LINE FROM BUS 61492 TO BUS 60252 CKT 1
TRIP LINE FROM BUS 61492 TO BUS 61187 CKT 1
END
CONTINGENCY '022       5'
COM 'Tower outage and resulting multi-terminal'
COM '60221-60251 and 60202-60251 is the tower outage B,C'
TRIP LINE FROM BUS 60221 TO BUS 60251 CKT 1
TRIP LINE FROM BUS 60202 TO BUS 60251 CKT 1
COM 'Also trips the following because of B where'
COM 'B is the same as MTL K'
TRIP LINE FROM BUS 60251 TO BUS 61492 CKT 1
TRIP LINE FROM BUS 61492 TO BUS 60252 CKT 1
TRIP LINE FROM BUS 61492 TO BUS 61187 CKT 1
COM 'Also trips the following because of C where'
COM 'C is the same as MTL M'
TRIP LINE FROM BUS 60251 TO BUS 61491 CKT 1
TRIP LINE FROM BUS 61491 TO BUS 60252 CKT 1
TRIP LINE FROM BUS 61491 TO BUS 61188 CKT 1
END
CONTINGENCY '022       6'
COM 'Tower outage and resulting multi-terminal'
COM '60186-60199 and 60186-60221 is the tower outage D,F'
TRIP LINE FROM BUS 60186 TO BUS 60199 CKT 1
TRIP LINE FROM BUS 60186 TO BUS 60221 CKT 1
END
CONTINGENCY '022       8'
COM 'Tower outage resulting in multi-terminal outage'
COM '60199-60221 and 60186-60221 is the tower outage E,F'
TRIP LINE FROM BUS 60186 TO BUS 60221 CKT 1
TRIP LINE FROM BUS 60199 TO BUS 60221 CKT 1
COM 'Also trips the following because of E where'
COM 'E is the same as MTL G'
TRIP LINE FROM BUS 60221 TO BUS 60222 CKT 2
END
CONTINGENCY '022       9'
COM 'Multi-terminal trip of I and J'
TRIP LINE FROM BUS 60202 TO BUS 60221 CKT 1
TRIP LINE FROM BUS 60221 TO BUS 60222 CKT 1
END
CONTINGENCY '022      10'
COM 'Multi-terminal trip of M and N'
TRIP LINE FROM BUS 60202 TO BUS 60251 CKT 1 /*Coon Crk to Terminal
TRIP LINE FROM BUS 60251 TO BUS 61491 CKT 1
TRIP LINE FROM BUS 61491 TO BUS 60252 CKT 1
TRIP LINE FROM BUS 61491 TO BUS 61188 CKT 1
END
CONTINGENCY '022      11'
COM 'Multi-terminal trip of G and H'
TRIP LINE FROM BUS 60199 TO BUS 60221 CKT 1
TRIP LINE FROM BUS 60221 TO BUS 60222 CKT 2
END
CONTINGENCY '022      12'
COM 'Multi-terminal trip of K and L'
TRIP LINE FROM BUS 60221 TO BUS 60251 CKT 1 /*Kholman Lk to Terminal
TRIP LINE FROM BUS 60251 TO BUS 61492 CKT 1
TRIP LINE FROM BUS 61492 TO BUS 60252 CKT 1
TRIP LINE FROM BUS 61492 TO BUS 61187 CKT 1
END
CONTINGENCY '022     13'
COM 'Multi-terminal trip of transformer R S and T'
COM 'represents a 3 winding transformer vld sgl'
COM 'Chisago Co. 500/345/34.5 kV transformer'
TRIP LINE FROM BUS 60199 TO BUS 61493 CKT 1
TRIP LINE FROM BUS 60653 TO BUS 61493 CKT 1
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TRIP LINE FROM BUS 60197 TO BUS 61493 CKT 1
END
CONTINGENCY '022     14'
COM 'Multi-terminal trip of transformer W X and Y'
COM 'represents a 3 winding transformer vld sgl'
COM 'Chisago Co. 500/345/34.5 kV transformer'
TRIP LINE FROM BUS 60197 TO BUS 61494 CKT 1
TRIP LINE FROM BUS 60199 TO BUS 61494 CKT 1
TRIP LINE FROM BUS 60654 TO BUS 61494 CKT 1
END
COM ' '
COM ' '
CONTINGENCY '050      8'
COM 'E.C.-Arpin 345 kV vld sgl outage without'
COM 'T Corners-Wien 115 kV overload, but with the'
COM 'Council Crk 69kV overload'
TRIP LINE FROM BUS 60304 TO BUS 39244 CKT 1
TRIP LINE FROM BUS 39901 TO BUS 38342 CKT 1
TRIP LINE FROM BUS 38333 TO BUS 68821 CKT 1
END
CONTINGENCY '050      9'
COM 'Eau Claire-Arpin vld sgl and T Corners - Wien'
COM 'overload but not Council Crk overload'
TRIP LINE FROM BUS 60304 TO BUS 39244 CKT 1
TRIP LINE FROM BUS 60315 TO BUS 39706 CKT 1
END
CONTINGENCY '050     10'
COM 'King-E.C.-Arpin, with no overload on Wien - T Corners'
COM 'or the Council Creek 69 kV'
COM 'the E.C. 10 transformer stays in-service connected to reactors'
TRIP LINE FROM BUS 60186 TO BUS 60304 CKT 1
TRIP LINE FROM BUS 60304 TO BUS 60305 CKT 1
TRIP LINE FROM BUS 60304 TO BUS 39244 CKT 1
END
CONTINGENCY '050    11'
COM 'King-E.C.-Arpin, Wien, Arpin Xfrs'
COM 'With T Corners - Wien 115 kV overload'
COM 'but without the Council Creek 69 kV overloaded'
COM 'the E.C. 10 transformer stays in-service connected to reactors'
TRIP LINE FROM BUS 60186 TO BUS 60304 CKT 1
TRIP LINE FROM BUS 60304 TO BUS 60305 CKT 1
COM 'Also trips the following because of A'
TRIP LINE FROM BUS 60304 TO BUS 39244 CKT 1
TRIP LINE FROM BUS 60315 TO BUS 39706 CKT 1
END
CONTINGENCY '050    12'
COM 'King-E.C.-Arpin, Wien, Arpin Xfr 9 and COC 69kV'
TRIP LINE FROM BUS 60186 TO BUS 60304 CKT 1
TRIP LINE FROM BUS 60304 TO BUS 39244 CKT 1
TRIP LINE FROM BUS 60304 TO BUS 60305 CKT 1
TRIP LINE FROM BUS 39901 TO BUS 38342 CKT 1
TRIP LINE FROM BUS 38333 TO BUS 68821 CKT 1
END
CONTINGENCY '050    13'
COM 'E.C.-Arpin 456 kV vld sgl outage with'
COM 'T Corners-Wien 115 kV overload, AND with the'
COM 'Council Crk 69kV overload'
TRIP LINE FROM BUS 60304 TO BUS 39244 CKT 1
TRIP LINE FROM BUS 60315 TO BUS 39706 CKT 1
TRIP LINE FROM BUS 39901 TO BUS 38342 CKT 1
TRIP LINE FROM BUS 38333 TO BUS 68821 CKT 1
END
CONTINGENCY '050     14'
COM 'TRIP LINE FROM BUS 60304 TO BUS 39244 CKT 1'
COM 'King-E.C.-Arpin, Wien, Arpin Xfr and 69kV'
TRIP LINE FROM BUS 60186 TO BUS 60304 CKT 1
TRIP LINE FROM BUS 60304 TO BUS 39244 CKT 1
TRIP LINE FROM BUS 60304 TO BUS 60305 CKT 1
TRIP LINE FROM BUS 39901 TO BUS 38342 CKT 1
TRIP LINE FROM BUS 38333 TO BUS 68821 CKT 1
END
COM ' '
COM '  End Of Outages That Cause DC or Unit runback'
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COM ' '
COM ' '
COM ' '
COM ' START MINNESOTA AREA CONTINGENCIES'
COM ' '
COM ' '
COM '500      GRE Defined as multi-terminal line'
COM 'A 66550-63050 GRANITF4-WILLMAR4   OPENS B'
COM 'B 63050-62427 WILLMAR4-WILLMAR8 OPENS A'
COM '-------------------------------------------------------'
CONTINGENCY '500'
TRIP LINE FROM BUS 66550 TO BUS 63050 CKT 1
TRIP LINE FROM BUS 63050 TO BUS 62427 CKT 1
END
COM '505  Defined as multi-circuit, NSP'
COM 'A 66551-66508 GRANITF7-S3     7 CKT 1   OPENS B C'
COM 'B 66552-66508 MARS ER7-S3     7 CKT 1   OPENS A C'
COM 'B 60371-66508 ERIE RD7-S3     7 CKT 1   OPENS A B'
COM '-------------------------------------------------------'
CONTINGENCY '505    '
TRIP LINE FROM BUS 66551 TO BUS 66508 CKT 1
TRIP LINE FROM BUS 66552 TO BUS 66508 CKT 1
TRIP LINE FROM BUS 60371 TO BUS 66508 CKT 1
END
COM '525  Defined as multi-circuit, tower'
COM 'A 60117-60132  CHERRYC7-WSX FLS7 CKT 1   OPENS  B   tower'
COM 'B 60129-60132  SPLT RK7-WSX FLS7 CKT 1   OPENS  A   tower'
COM '-------------------------------------------------------'
CONTINGENCY '525      1'
TRIP LINE FROM BUS 60117 TO BUS 60132 CKT 1
TRIP LINE FROM BUS 60129 TO BUS 60132 CKT 1
END
COM '535  Defined as multi-circuit tower and mtl'
COM 'A 60134-60135  SHEYNNE7-CASS CO7 CKT 1   OPENS  B,C tower only'
COM 'B 66761-60134  MODEROW7-SHEYNNE7 CKT 1   OPENS  A,C, also mtl'
COM 'C 66761-60135  MODEROW7-CASS CO7 CKT 1   OPENS  A,B, also mtl'
COM '**    Defined as multi-terminal'
COM 'E 60135-60137  CASS CO7-REDRIVR7 CKT 1   OPENS  D,F'
COM 'F 60135-66761  CASS CO7-MODEROW7 CKT 1   OPENS  D,E'
COM 'G 66761-60134  MODEROW7-SHEYNNE7 CKT 1   OPENS E,F,'
COM '-------------------------------------------------------'
CONTINGENCY '535       1'
COM 'Tower contingency of Sheyenne-Cass Co.,Moderow-Sheyenne'
COM 'and Moderow-Cass Co. 115kV lines. With combination mtl'
COM 'portion.'
TRIP LINE FROM BUS 60134 TO BUS 60135 CKT 1
TRIP LINE FROM BUS 66761 TO BUS 60134 CKT 1
TRIP LINE FROM BUS 66761 TO BUS 60135 CKT 1
COM 'Also trips the following MTL because of C'
TRIP LINE FROM BUS 60135 TO BUS 60137 CKT 1
END
CONTINGENCY '535       2'
COM ' Multi-terminal only'
TRIP LINE FROM BUS 60135 TO BUS 60137 CKT 1
TRIP LINE FROM BUS 60135 TO BUS 66761  CKT 1
TRIP LINE FROM BUS 66761 TO BUS 60134 CKT 1
END
COM '640  Defined as multi-terminal line, GRE'
COM 'A 62425-60156 WILLMAR7-PYNSVIL7 CKT 1   OPENS B'
COM 'B 62425-62427 WILLMAR7-WILLMAR8 CKT 1   OPENS A'
COM 'C 62425-62005 WILLMAR7-KERKHOT7 CKT 1   see cont 690, mtl'
COM '-------------------------------------------------------'
CONTINGENCY 640  '
COM 'Fault at Wilmarth, between Wilmarth'
COM 'and Paynesville 115 kV'
TRIP LINE FROM BUS 62425 TO BUS 62427 CKT 1
TRIP LINE FROM BUS 62425 TO BUS 62005 CKT C1
END
COM '650  GRE Defined as multi-terminal line'
COM 'A 62090-60205 PARKWD 7-CRKEDLK7 CKT 1   OPENS B'
COM 'B 62090-62132 PARKWD 7-PARKWD 8 CKT 1   OPENS A'
COM '-------------------------------------------------------'
CONTINGENCY '650  '
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TRIP LINE FROM BUS 62090 TO BUS 60205 CKT 1
TRIP LINE FROM BUS 62090 TO BUS 62132 CKT 1
END
COM '655  GRE Defined as multi-terminal line'
COM 'A 62924-60206 MEDINA 7-CROWRVR7 CKT 1   OPENS B'
COM 'B 62924-62951 MEDINA 7-MEDINA 8 CKT 1   OPENS A'
COM '-------------------------------------------------------'
CONTINGENCY '655  '
TRIP LINE FROM BUS 62924 TO BUS 60206 CKT 1
TRIP LINE FROM BUS 62924 TO BUS 62951 CKT 1
END
COM '660  GRE Defined as multi-terminal line'
COM 'A 63043-63046 ELK RIV4-BUNKER 4 CKT 1   OPENS B'
COM 'B 63043-62134 ELK RIV4-ELKR14S8 CKT 1   OPENS A'
COM '-------------------------------------------------------'
CONTINGENCY '660   '
TRIP LINE FROM BUS 63043 TO BUS 63046 CKT 1
TRIP LINE FROM BUS 63043 TO BUS 62134 CKT 2
END
COM '665  GRE Defined as multi-terminal line'
COM 'A 63043-60152 ELK RIV4-MNTCELO4 CKT 1   OPENS B'
COM 'B 63043-62134 ELK RIV4-ELKRI4S8 CKT 1   OPENS A'
COM '-------------------------------------------------------'
CONTINGENCY '665   '
TRIP LINE FROM BUS 63043 TO BUS 60152 CKT 1
TRIP LINE FROM BUS 63043 TO BUS 62134 CKT 1
END
COM '670 GRE Defined as multi-circuit, tower'
COM 'A 60160-60202  SHERCO 3-COON CK3 CKT 1   OPENS B, C,     tower'
COM 'B 63031-60160  BUNKER 3-SHERCO 3 CKT 1   OPENS A, C mtl, tower'
COM 'C 63031-60202  BUNKER 3-COON CK3 CKT 1   OPENS A, B mtl, tower'
COM '**GRE Defined as multi-terminal'
COM 'D 60160-60202  SHERCO 3-COON CK3 CKT 1   OPENS E,F,G'
COM 'E 61487-60655  CNCMID2Y-CNCTER29 CKT 1   OPENS D,E,G'
COM 'F 61487-60203  CNCMID2Y-COON CK7 CKT 1   OPENS D,E,F'
COM 'G 61487-60202  CNCMID2Y-COON CK3 CKT 1   OPENS D,E,F'
COM '**GRE Defined as multi-terminal '
COM 'F 63031-60160  BUNKER 3-SHERCO 3 CKT 1   OPENS G, H'
COM 'G 63031-60202  BUNKER 3-COON CK3 CKT 1   OPENS F, H'
COM 'H 63046-63031  BUNKER 4-BUNKER 3 CKT 1   OPENS F, G'
COM '-------------------------------------------------------'
CONTINGENCY '670     1'
COM 'Tower outage with resulting multi-terminal'
TRIP LINE FROM BUS 60160 TO BUS 60202 CKT 1
TRIP LINE FROM BUS 63031 TO BUS 60160 CKT 1
TRIP LINE FROM BUS 63031 TO BUS 60202 CKT 1
COM 'also trips the following because of A, tower'
TRIP LINE FROM BUS 60202 TO BUS 61487 CKT 1
TRIP LINE FROM BUS 61487 TO BUS 60203 CKT 1
TRIP LINE FROM BUS 61487 TO BUS 60655 CKT 1
COM 'also trips the following because of B, tower'
TRIP LINE FROM BUS 63031 TO BUS 60160 CKT 1
TRIP LINE FROM BUS 63031 TO BUS 60202 CKT 1
TRIP LINE FROM BUS 63046 TO BUS 63031 CKT 1
END
CONTINGENCY '670     2'
COM 'Valid multi-terminal only'
TRIP LINE FROM BUS 63031 TO BUS 60160 CKT 1
TRIP LINE FROM BUS 63031 TO BUS 60202 CKT 1
TRIP LINE FROM BUS 63046 TO BUS 63031 CKT 1
END
CONTINGENCY '670     3'
COM 'Valid multi-terminal only'
TRIP LINE FROM BUS 60160 TO BUS 60202 CKT 1
TRIP LINE FROM BUS 60202 TO BUS 61487 CKT 1
TRIP LINE FROM BUS 61487 TO BUS 60203 CKT 1
TRIP LINE FROM BUS 61487 TO BUS 60655 CKT 1
END
COM ' 675 Defined as multi-terminal'
COM 'A 60142-63045 BENTON 3-BENTON 4 CKT 1   OPENS B C D E F G'
COM 'C 60142-60160 BENTON 3-SHERCO 3 CKT 1   OPENS A B D E F G'
COM 'E 60142-63045 BENTON 3-BENTON 4 CKT 2   OPENS A B C D F G'
COM '-------------------------------------------------------'
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CONTINGENCY '675     '
TRIP LINE FROM BUS 60142 TO BUS 63045 CKT 1
TRIP LINE FROM BUS 60142 TO BUS 60160 CKT 1
TRIP LINE FROM BUS 60142 TO BUS 63045 CKT 2
END
COM '  GRE Defined as multi-terminal line'
COM 'A 63045-60143 BENTON 4-BENTON 7 CKT 1   OPENS B'
COM 'B 63045-62297 BENTON 4-BENTON 8 CKT 1   OPENS A'
COM '-------------------------------------------------------'
CONTINGENCY '680      '
TRIP LINE FROM BUS 63045 TO BUS 60143 CKT P2
TRIP LINE FROM BUS 63045 TO BUS 62297 CKT 1
END
CONTINGENCY '680    P2'
TRIP LINE FROM BUS 63045 TO BUS 60143 CKT P2
TRIP LINE FROM BUS 63045 TO BUS 62297 CKT 1
END
COM '  690 Defined as multi-terminal, GRE'
COM 'A 62425-62005 WILLMAR7-KERKHOT7   OPENS B C D'
COM 'B 60357-62005 MAYNARD7-KERKHOT7   OPENS A C D'
COM 'C 62005-62006 KERKHOT7-KERKHO 7   OPENS A B D'
COM 'D 62006-62001 KERKHO 7-BENSON 7   OPENS A B C'
COM '-------------------------------------------------------'
CONTINGENCY '690      '
TRIP LINE FROM BUS 62425 TO BUS 62005 CKT C1
TRIP LINE FROM BUS 60357 TO BUS 62005 CKT 1
TRIP LINE FROM BUS 62005 TO BUS 62006 CKT 1
TRIP LINE FROM BUS 62006 TO BUS 62001 CKT 1
END
CONTINGENCY '690    P1'
TRIP LINE FROM BUS 62425 TO BUS 62005 CKT c1
TRIP LINE FROM BUS 60357 TO BUS 62005 CKT 1
TRIP LINE FROM BUS 62005 TO BUS 62006 CKT 1
TRIP LINE FROM BUS 62006 TO BUS 62001 CKT 1
END
COM ' 695 Defined as multi-terminal'
COM 'A 62925-62926 DICKNSN7-DCKSNSS7   OPENS B C'
COM 'B 62926-60155 DCKSNSS7-PULASKI7   OPENS A C'
COM 'C 60153-60155 MNTCELO7-PULASKI7   OPENS A B'
COM '-------------------------------------------------------'
CONTINGENCY '695      '
TRIP LINE FROM BUS 62925 TO BUS 62926 CKT 1
TRIP LINE FROM BUS 62926 TO BUS 60155 CKT 1
TRIP LINE FROM BUS 60153 TO BUS 60155 CKT 1
END
COM '700  Defined as multi-circuit'
COM 'A 60105-60192  PR ISLD3-BLUE LK3   OPENS  B   tower'
COM 'B 60192-60217  BLUE LK3-INVRHLS3   OPENS  A   tower'
COM 'C 60217-60236  INVRHLS3-REDROCK3   OPENS  B   mtl
COM '-------------------------------------------------------'
CONTINGENCY '700    1'
TRIP LINE FROM BUS 60105 TO BUS 60192 CKT 1
TRIP LINE FROM BUS 60192 TO BUS 60217 CKT 1
TRIP LINE FROM BUS 60217 TO BUS 60236 CKT 1
END
CONTINGENCY '700    2'
COM ' Multi-terminal portion only'
TRIP LINE FROM BUS 60192 TO BUS 60217 CKT 1
TRIP LINE FROM BUS 60217 TO BUS 60236 CKT 1
END
COM '705  Defined as multi-circuit, tower, mtl'
COM 'A 60192-60233  BLUE LK3-PARKERS3   OPENS  B or C tower'
COM 'B 60192-60262  BLUE LK3-EDEN PR3   OPENS  A      tower MTL'
COM 'C 60233-60262  PARKERS3-EDEN PR3   OPENS  A      tower MTL'
COM '**    Defined as multi-terminal'
COM 'B 60192-60262  BLUE LK3-EDEN PR3   OPENS  B'
COM 'D 60262-60263  EDEN PR3-EDEN PR7   OPENS  B'
COM '**    Defined as multi-terminal'
COM 'C 60233-60262  PARKERS3-EDEN PR3   OPENS  E'
COM 'E 60262-60263  EDEN PR3-EDEN PR7   OPENS  C'
COM '-------------------------------------------------------'
CONTINGENCY '705       1'
COM 'Tower with resulting multi-terminal'
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TRIP LINE FROM BUS 60192 TO BUS 60233 CKT 1
TRIP LINE FROM BUS 60192 TO BUS 60262 CKT 1
COM 'Also trips the following because of B'
TRIP LINE FROM BUS 60262 TO BUS 60263 CKT 1
END
CONTINGENCY '705       2'
COM 'Tower with resulting multi-terminal'
TRIP LINE FROM BUS 60192 TO BUS 60233 CKT 1
TRIP LINE FROM BUS 60233 TO BUS 60262 CKT 1
COM 'Also trips the following because of C'
TRIP LINE FROM BUS 60262 TO BUS 60263 CKT 2
END
CONTINGENCY '705       3'
COM 'Valid Multi-terminal only'
TRIP LINE FROM BUS 60192 TO BUS 60262 CKT 1
TRIP LINE FROM BUS 60262 TO BUS 60263 CKT 1
END
CONTINGENCY '705       4'
COM 'Valid Multi-terminal only'
TRIP LINE FROM BUS 60233 TO BUS 60262 CKT 1
TRIP LINE FROM BUS 60262 TO BUS 60263 CKT 2
END
COM '710 Defined as multi-terminal, tower'
COM ' Multi-terminal trips A and B'
COM 'A 62925-62667  DICKNSN7-ST BONI7   OPENS B C'
COM 'B 62667-60277  ST BONI7-WWACNIA7   OPENS A C'
COM 'D 62667-63021  ST BONI7-ST BONI    OPENS A B'
COM ' A and B multi-curcuit tower with portions of C'
COM 'C 62925-60206  DICKNSN7-CROWRVR7'
COM '-------------------------------------------------------------'
COM 'mtl outage portion'
CONTINGENCY '710   1'
TRIP LINE FROM BUS 62925 TO BUS 62667 CKT 1
TRIP LINE FROM BUS 62667 TO BUS 60277 CKT 1
TRIP LINE FROM BUS 62667 TO BUS 63021 CKT 1
END
COM 'mtl, tower outage portion'
CONTINGENCY '710   2'
TRIP LINE FROM BUS 62925 TO BUS 60206 CKT 1
TRIP LINE FROM BUS 62925 TO BUS 62667 CKT 1
TRIP LINE FROM BUS 62667 TO BUS 60277 CKT 1
TRIP LINE FROM BUS 62667 TO BUS 63021 CKT 1
END
COM '715 NSP Defined as multi-circuit, RW, tower'
COM 'A 60190-62666  BLK DOG7-GLNDALE7          OPENS  DorE RW MTL'
COM 'B 62666-60243  GLNDALE7-SCOTTAP7          OPENS  EorForG RW MTL'
COM 'C 60243-60244  SCOTTAP7-SCOTTCO7          OPENS  G RW MTL'
COM 'D 60190-60242  BLK DOG7-SAVAGE 7          OPENS  A RW MTL'
COM 'E 60242-62668  SAVAGE 7-EAGLECRK          OPENS  AorB RW MTL'
COM 'F 62668-62975  EAGLECRK-SHAKOPE7          OPENS  B RW MTL'
COM 'G 62975-60244  SHAKOPE7-SCOTTCO7          OPENS  BorC RW MTL'
COM '**    Defined as multi-terminal'
COM 'A 60200-62666  BLK DOG7-GLNDALE7          OPENS  H'
COM 'H 62666-62672  GLNDALE7-GLENDALE69 CKT 2  OPENS  A'
COM 'B 62666-60243  GLNDALE7-SCOTTAP7          OPENS  I C J K'
COM 'I 62666-62672  GLNDALE7-GLENDALE69 CKT 1  OPENS  B C J K'
COM 'C 60243-60244  SCOTTAP7-SCOTTCO7          OPENS  B I J K'
COM 'J 60243-60194  SCOTTAP7-CARVRCO7          OPENS  B I C K'
COM 'K 60194-60931  CARVRCO7-CARVRCO8        OPENS  B I C J'
COM 'D 60190-60242  BLK DOG7-SAVAGE 7          OPENS  E F G L'
COM 'E 60242-62668  SAVAGE 7-EAGLECRK          OPENS  D F G L'
COM 'F 62668-62975  EAGLECRK-SHAKOPE7        OPENS  D E G L'
COM 'G 62975-60244  SHAKOPE7-SCOTTCO7          OPENS  D E F L'
COM 'L 60244-60890  SCOTTCO7-SCOTTCO8 CKT 2    OPENS  D E F G'
COM '-------------------------------------------------------'
CONTINGENCY '715       1'
COM 'RW A&D with associated MTLs'
TRIP LINE FROM BUS 60200 TO BUS 62666 CKT 1
TRIP LINE FROM BUS 60190 TO BUS 60242 CKT 1
TRIP LINE FROM BUS 62666 TO BUS 62672 CKT 2
TRIP LINE FROM BUS 60242 TO BUS 62668 CKT 1
TRIP LINE FROM BUS 62668 TO BUS 62975 CKT 1
TRIP LINE FROM BUS 62975 TO BUS 60244 CKT 1
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TRIP LINE FROM BUS 60244 TO BUS 60890 CKT 2
END
CONTINGENCY '715       2'
COM 'RW B&E with associated MTLs'
TRIP LINE FROM BUS 62666 TO BUS 60243 CKT 1
TRIP LINE FROM BUS 60242 TO BUS 62668 CKT 1
TRIP LINE FROM BUS 62666 TO BUS 62672 CKT 1
TRIP LINE FROM BUS 60243 TO BUS 60244 CKT 1
TRIP LINE FROM BUS 60243 TO BUS 60194 CKT 1
TRIP LINE FROM BUS 60194 TO BUS 60931 CKT 1
TRIP LINE FROM BUS 60190 TO BUS 60242 CKT 1
TRIP LINE FROM BUS 62668 TO BUS 62975 CKT 1
TRIP LINE FROM BUS 62975 TO BUS 60244 CKT 1
TRIP LINE FROM BUS 60244 TO BUS 60890 CKT 2
END
CONTINGENCY '715       3'
COM 'MTL with A'
TRIP LINE FROM BUS 60200 TO BUS 62666 CKT 1
TRIP LINE FROM BUS 62666 TO BUS 62672 CKT 2
END
CONTINGENCY '715       4'
COM 'MTL with B'
TRIP LINE FROM BUS 62666 TO BUS 60243 CKT 1
TRIP LINE FROM BUS 62666 TO BUS 62672 CKT 1
TRIP LINE FROM BUS 60243 TO BUS 60244 CKT 1
TRIP LINE FROM BUS 60243 TO BUS 60194 CKT 1
TRIP LINE FROM BUS 60194 TO BUS 60931 CKT 1
END
CONTINGENCY '715       5'
COM 'MTL with D'
TRIP LINE FROM BUS 60190 TO BUS 60242 CKT 1
TRIP LINE FROM BUS 60242 TO BUS 62668 CKT 1
TRIP LINE FROM BUS 62668 TO BUS 62975 CKT 1
TRIP LINE FROM BUS 62975 TO BUS 60244 CKT 1
TRIP LINE FROM BUS 60244 TO BUS 60890 CKT 2
END
COM '720  Defined as multi-circuit tower. GSL Tap is GONE ***** DKD '
COM 'A 60211-60234  GLESNLK7-PARKERS7  1   OPENS  B  tower'
COM 'B 60211-60234  GLESNLK7-PARKERS7  2   OPENS  A  tower'
COM '-------------------------------------------------------'
CONTINGENCY '720       '
TRIP LINE FROM BUS 60211 TO BUS 60234 CKT 1
TRIP LINE FROM BUS 60211 TO BUS 60234 CKT 2
END
COM '735  Defined as multi-circuit tower'
COM 'A 60297-60283  OSPREY 7-PARKFLS7     OPENS   B'
COM 'B 60298-60303  PARKFLS7-CRANDPC7     OPENS   A'
COM '**   Defined as multi-terminal'
COM 'A 60297-60283  OSPREY 7-PARKFLS7     OPENS   A'
COM 'D 60298-60303  PARKFLS7-CRANDPC      OPENS   D F G H'
COM 'F 69120-60340  CRANDPC -PHILIPS7     OPENS   D E G H'
COM 'G 60340-69108  PHILIPS7-PHILDPC      OPENS   D E F H'
COM 'H 69108-60301  PHILDPC -PRENTCE7     OPENS   D E F G'
COM '-------------------------------------------------------'
CONTINGENCY '735  1'
TRIP LINE FROM BUS 60297 TO BUS 60283 CKT 1
TRIP LINE FROM BUS 60298 TO BUS 60283 CKT 1
TRIP LINE FROM BUS 60298 TO BUS 60303 CKT 1
TRIP LINE FROM BUS 69120 TO BUS 60303 CKT 1
TRIP LINE FROM BUS 69120 TO BUS 60340 CKT 1
TRIP LINE FROM BUS 60340 TO BUS 69108 CKT 1
TRIP LINE FROM BUS 69108 TO BUS 60301 CKT 1
END
CONTINGENCY '735  2'
TRIP LINE FROM BUS 60297 TO BUS 60283 CKT 1
TRIP LINE FROM BUS 60298 TO BUS 60283 CKT 1
END
CONTINGENCY '735  3'
TRIP LINE FROM BUS 60298 TO BUS 60303 CKT 1
TRIP LINE FROM BUS 69120 TO BUS 60303 CKT 1
TRIP LINE FROM BUS 69120 TO BUS 60340 CKT 1
TRIP LINE FROM BUS 60340 TO BUS 69108 CKT 1
TRIP LINE FROM BUS 69108 TO BUS 60301 CKT 1
```

```
END
COM '740  Defined as multi-circuit, tower'
COM 'A 60103-63071  CANNFLS5-SPRNGCK5   OPENS  B  tower MTL'
COM 'B 60106-63071  PR ISLD5-SPRNGCK5   OPENS  A  tower'
COM '**    Defined as multi-terminal'
COM 'C 60103-60104  CANNFLS5-CANNFLS7   OPENS  D'
COM 'D 60103-63071  CANNFLS5-SPRNGCK5   OPENS  C'
COM '-------------------------------------------------------'
CONTINGENCY '740    1'
TRIP LINE FROM BUS 60103 TO BUS 63071 CKT 1
TRIP LINE FROM BUS 60106 TO BUS 63071 CKT 1
COM 'Also trips the following because of A'
TRIP LINE FROM BUS 60103 TO BUS 60104 CKT 1
END
CONTINGENCY '740    2'
TRIP LINE FROM BUS 60103 TO BUS 60104 CKT 1
TRIP LINE FROM BUS 60103 TO BUS 63071 CKT 1
END
COM '750  Defined as multi-terminal'
COM 'A 62817-60144 LSAUKTP7-DGLASCO7 CKT 1
COM 'B 60144-60749 DGLASCO7-DGLAS C8 CKT 1
COM '-------------------------------------------------------'
CONTINGENCY '750       '
TRIP LINE FROM BUS 62817 TO BUS 60144 CKT 1
TRIP LINE FROM BUS 60144 TO BUS 60749 CKT 1
END
COM ' FROM GRE, New bus STCDTP 7 was not in listing.  Assuming bus  is 60158'
COM ' 755 Defined as multi-terminal'
COM 'A 60166-60153  SALIDA 7-MNTCELO7 CKT 1   OPENS B C D'
COM 'B 60166-60158  SALIDA 7-STCLTP 7 CKT 1   OPENS A C D'
COM 'C 60157-60158  STCLOUD7-STCLTP 7 CKT 1   OPENS A B D'
COM 'D 62815-60158  I94PARK7-STCLTP 7 CKT 1   OPENS A B C'
COM '-------------------------------------------------------'
CONTINGENCY '755     '
TRIP LINE FROM BUS 60166 TO BUS 60153 CKT 1
TRIP LINE FROM BUS 60166 TO BUS 60158 CKT 1
TRIP LINE FROM BUS 60157 TO BUS 60158 CKT 1
TRIP LINE FROM BUS 62815 TO BUS 60158 CKT 1
END
COM 'FROM GRE ,New bus STCDTPW7 was not in listing.  Assuming bus  is 60159'
COM '756 Defined as multi-terminal'
COM 'A 62815-62816  I94PARK7-STAUGST7 CKT 1   OPENS B C D'
COM 'B 60162-60159  WAKEFLD7-STCLTPW7 CKT 1   OPENS A C D'
COM 'C 60157-60159  STCLOUD7-STCLTPW7 CKT 1   OPENS A B D'
COM 'D 62816-60159  STAUGST7-STCLTPW7 CKT 1   OPENS A B C'
COM '-------------------------------------------------------'
CONTINGENCY '756     '
TRIP LINE FROM BUS 62815 TO BUS 62816 CKT 1
TRIP LINE FROM BUS 60162 TO BUS 60159 CKT 1
TRIP LINE FROM BUS 60157 TO BUS 60159 CKT 1
TRIP LINE FROM BUS 62816 TO BUS 60159 CKT 1
END
COM '760  Defined as multi-circuit, tower'
COM 'A 60105-60236  PR ISLD3-REDROCK3  1   OPENS  B'
COM 'B 60105-60236  PR ISLD3-REDROCK3  2   OPENS  A'
COM '-------------------------------------------------------'
CONTINGENCY '760     '
TRIP LINE FROM BUS 60105 TO BUS 60236 CKT 1
TRIP LINE FROM BUS 60105 TO BUS 60236 CKT 2
END
COM '765  Defined as multi-terminal'
COM 'A 63048-60237  RUSH CY4-REDROCK4   OPENS  B C'
COM 'B 60236-60237  REDROCK3-REDROCK4   OPENS  A C'
COM 'C 60361-63048  ROCKCR 4-RUSH CY4   OPENS  A B'
COM '-------------------------------------------------------'
CONTINGENCY '765     '
TRIP LINE FROM BUS  63048 TO BUS  60237 CKT 1
TRIP LINE FROM BUS  60236 TO BUS  60237 CKT 1
TRIP LINE FROM BUS  60361 TO BUS  63048 CKT 1
END
COM '770  Defined as multi-terminal'
COM 'A 60109-60110  WILMART5-WILMART7   OPENS  B C'
COM 'B 60109-60120  WILMART5-BLUEART5   OPENS  A C'
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COM 'C 60120-34009  BLUEETA5-WINBAGO5   OPENS  A B'
COM '-------------------------------------------------------'
CONTINGENCY '770    '
TRIP LINE FROM BUS 60109 TO BUS 60110 CKT 1
TRIP LINE FROM BUS 60109 TO BUS 60120 CKT 1
TRIP LINE FROM BUS 60120 TO BUS 34009 CKT 1
END
COM '780  Defined as multi-terminal line'
COM 'A 60143-60348  BENTON 7-BENCTP 7   '
COM 'B 60146-60348  GRANCTY7-BENCTP 7   '
COM 'C 60157-60348  STCOULD7-BENCTP 7   '
COM '-------------------------------------------------------'
CONTINGENCY '780    '
TRIP LINE FROM BUS 60143 TO BUS 60348 CKT 1
TRIP LINE FROM BUS 60146 TO BUS 60348 CKT 1
TRIP LINE FROM BUS 60157 TO BUS 60348 CKT 1
END
COM '785  Defined as multi-terminal'
COM 'A 60129-60128  SPLIT R7-SPLIT R5   OPENS  B C D E F'
COM 'B 60128-34003  SPLIT R5-MAGNLIA5   OPENS  A C D E F'
COM 'C 34003-34004  MAGNLIA5-ELK    5   OPENS  A B D E F'
COM 'D 34004-34005  ELK     -HRN LK 5   OPEND  A B C E F'
COM 'E 34005-34225  HRN LK 5-HERONLK8 CKT 1'
COM '-------------------------------------------------------'
CONTINGENCY '785    '
TRIP LINE FROM BUS 60129 TO BUS 60128 CKT 1
TRIP LINE FROM BUS 60128 TO BUS 34003 CKT 1
TRIP LINE FROM BUS 34003 TO BUS 34004 CKT 1
TRIP LINE FROM BUS 34004 TO BUS 34005 CKT 1
TRIP LINE FROM BUS 34005 TO BUS 34225 CKT 1
END
COM '790  Defined as multi-terminal'
COM 'A 66550-60147  GRANITF4-MINVALY4     OPENS  B'
COM 'B 60147-60148  MINVALY4-MINVALY7  1   OPENS  A'
COM '-------------------------------------------------------'
CONTINGENCY '790    '
TRIP LINE FROM BUS 66550 TO BUS 60147 CKT 1
TRIP LINE FROM BUS 60147 TO BUS 60148 CKT 1
END
COM '795  Defined as multi-terminal'
COM 'A 66550-60150  GRANITF4-MNVLTAP4   OPENS  B C D E'
COM 'B 60148-60149  MINVALY7-MINVALT4   OPENS  A C D E'
COM 'C 60150-63054  MNVLTAP4-PANTHER4   OPENS  A B D E'
COM 'D 60149-60150  MINVALT4-MNVLTAP4   OPENS  A B C E'
COM 'E 63054-60742  PANTHER4-PANTHER8   OPENS  A B C D'
COM '-------------------------------------------------------'
CONTINGENCY '795    '
TRIP LINE FROM BUS 66550 TO BUS 60150 CKT 1
TRIP LINE FROM BUS 60148 TO BUS 60149 CKT C1
TRIP LINE FROM BUS 60150 TO BUS 63054 CKT 1
TRIP LINE FROM BUS 60149 TO BUS 60150 CKT 1
TRIP LINE FROM BUS 63054 TO BUS 60742 CKT 1
END
COM '805  Defined as multi-terminal'
COM 'A 60187-60176  AS KING7-BAYTOWN7   OPENS  B C'
COM 'B 60224-60176  LONG LK7-BAYTOWN7   OPENS  A C'
COM 'C 60222-60224  KOLMNLK7-LONG LK7      VLD SGL'
COM '-------------------------------------------------------'
CONTINGENCY '805    '
TRIP LINE FROM BUS 60187 TO BUS 60176 CKT 1
TRIP LINE FROM BUS 60222 TO BUS 60224 CKT 1
TRIP LINE FROM BUS 60224 TO BUS 60176 CKT 1
END
COM '810  Defined as multi-terminal'
COM 'A 60189-62980 BLK DOG4-MCLEOD 4   OPENS  B'
COM 'B 60189-60190 BLK DOG4-BLK DOG7   OPENS  A'
COM '-------------------------------------------------------'
CONTINGENCY '810   C1'
TRIP LINE FROM BUS 60189 TO BUS 62980 CKT 1
TRIP LINE FROM BUS 60189 TO BUS 60190 CKT C1
END
COM '811  Defined as multi-terminal'
COM 'A 60107-62865 W FARIB7-AIRTECH7   OPENS  B'
```

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COM 'B 62865-62234 AIRTECH7-LKMARN 7   OPENS  A'
COM '-------------------------------------------------------'
CONTINGENCY '811      '
TRIP LINE FROM BUS 60107 TO BUS 62865 CKT 1
TRIP LINE FROM BUS 62865 TO BUS 62234 CKT 1
END
COM '815  Defined as multi-terminal'
COM 'A 62225-62226 BURNVIL7-FISCHER7   OPENS  B C D'
COM 'B 62226-60343 FISCHER7-WILLPIP7   OPENS  A C D'
COM 'C 60343-62228 WILLPIP7-APPVLTW7   OPENS  A B D'
COM 'D 62228-62227 APPVLTW7-JOHNCAK7   OPENS  A B C'
COM '-------------------------------------------------------'
CONTINGENCY '815     '
TRIP LINE FROM BUS 62225 TO BUS 62226 CKT 1
TRIP LINE FROM BUS 62226 TO BUS 60343 CKT 1
TRIP LINE FROM BUS 60343 TO BUS 62228 CKT 1
TRIP LINE FROM BUS 62228 TO BUS 62227 CKT 1
END
COM '820  Defined as multi-terminal'
COM 'A 60218 TO  60271  INVRHLS7-RICHVLY7   OPENS  B C'
COM 'B 60271 TO  60247  RICHVLY7-LINDE  7   OPENS  A C'
COM 'C 60247 TO  60201  LINDE  7-CHEMOLT7   OPENS  A B'
COM '-------------------------------------------------------'
CONTINGENCY '820     '
TRIP LINE FROM BUS 60218 TO BUS 60271 CKT 1
TRIP LINE FROM BUS 60271 TO BUS 60247 CKT 1
TRIP LINE FROM BUS 60247 TO BUS 60201 CKT 1
END
COM '825  Defined as multi-terminal'
COM 'B 63032-60102  PL VLLY3-ADAMS  3   OPENS  A C D'
COM 'C 60102-34014  ADAMS  3-ADAMS  5   OPENS  A B D'
COM 'D 60102-34018  ADAMS  3-HAZLTON3   VLD SGL'
COM '-------------------------------------------------------'
CONTINGENCY '825     '
TRIP LINE FROM BUS 63032 TO BUS 60102 CKT 1
TRIP LINE FROM BUS 60102 TO BUS 34014 CKT 1
TRIP LINE FROM BUS 60102 TO BUS 34018 CKT 1
END
COM '  END MINNESOTA AREA CONTINGENCIES'
COM ' '
COM ' '
COM '  START WISCONSIN AREA CONTINGENCIES'
COM ' '
COM ' '
COM '830  Defined as multi-terminal'
COM 'A 60238-68966 REDROCK7-GLENMONT CKT 1   OPENS  B C D'
COM 'B 60327-60330 T RIVFL7-CRYSTAL7 CKT 1   OPENS  A C D'
COM 'C 60327-60328 T RIVFL7-RIV FLS7 CKT 1   OPENS  A B D'
COM 'D 60327-68966 T RIVFL7-GLENMONT CKT 1   OPENS  A B C'
COM '-------------------------------------------------------'
CONTINGENCY '830     '
TRIP LINE FROM BUS 60238 TO BUS 68966 CKT 1
TRIP LINE FROM BUS 60327 TO BUS 60330 CKT 1
TRIP LINE FROM BUS 60327 TO BUS 60328 CKT 1
TRIP LINE FROM BUS 60327 TO BUS 68966 CKT 1
END
COM '835  Defined as multi-terminal'
COM 'A 60282-60319 R CEDAR5-WHEATTP5 CKT 1   OPENS  B C'
COM 'B 60319-60318 WHEATTP5-WHEATON5 CKT 1   OPENS  A C'
COM 'C 60319-60320 WHEATTP5-HYDROLN5 CKT 1   OPENS  A B'
COM '-------------------------------------------------------'
CONTINGENCY '835    '
COM 'Fault between Wheaton Tap and Red Cedar/Hydro Lane'
TRIP LINE FROM BUS 60282 TO BUS 60319 CKT 1
TRIP LINE FROM BUS 60319 TO BUS 60318 CKT 1
TRIP LINE FROM BUS 60319 TO BUS 60320 CKT 1
END
COM '840  Defined as multi-terminal'
COM 'A 60318-60368  WHEATON5-JEFRSRD5 CKT 1   OPENS  B'
COM 'B 60319-60318  WHEATTP5-WHEATON5 CKT 1   OPENS  A'
COM '-------------------------------------------------------'
CONTINGENCY '840    '
COM ' Fault on line from Wheaton looking towards Jef and
```

```
COM ' then to Eau Claire 161 kV'
TRIP LINE FROM BUS 60318 TO BUS 60368 CKT 1
TRIP LINE FROM BUS 60319 TO BUS 60318 CKT 1
END
COM '845  Defined as multi-terminal'
COM 'A 60306-60322  HOLCOMB7-CORNELL7   OPENS  B C'
COM 'B 69157-60322  ANDERSN7-CORNELL7   OPENS  A C'
COM 'C 60326-69157  JIMFLS 7-ANDERSN7   OPENS  A B'
COM '-------------------------------------------------------'
CONTINGENCY '845    '
TRIP LINE FROM BUS 60306 TO BUS 60322 CKT 1
TRIP LINE FROM BUS 69157 TO BUS 60322 CKT 1
TRIP LINE FROM BUS 60326 TO BUS 69157 CKT 1
END
COM '850 Defined as multi-terminal'
COM 'A 60313-60312  PINE LK7-PINE LK5      OPENS B C D E'
COM 'B 60329-60314  CRYSTAL5-PINELKT5      OPENS A C D E'
COM 'C 69565-60314  APL RVR5-PINELKT5      OPENS A B D E'
COM 'D 60312-60314  PINE LK5-PINELKT5      OPENS A B C E'
COM 'E 69565-69007  APL RVR5-APLRVR 8      OPENS A B C D
COM '-------------------------------------------------------'
CONTINGENCY '850      '
TRIP LINE FROM BUS 60313 TO BUS 60312 CKT 1
TRIP LINE FROM BUS 60329 TO BUS 60314 CKT 1
TRIP LINE FROM BUS 69565 TO BUS 60314 CKT 1
TRIP LINE FROM BUS 60312 TO BUS 60314 CKT 1
TRIP LINE FROM BUS 69565 TO BUS 69007 CKT 1
END
COM '875  Defined as multi-circuit, RW'
COM 'A 60302-60308  COULEE 5-LACROSS5 CKT 1   OPENS  B       RW'
COM 'B 69523-69535  GENOA  5-LAC TAP5 CKT 1   OPENS  A       RW'
COM '**    Defined as multi-terminal'
COM 'C 60308-69535 LACROSS5-LAC TAP5 CKT 1   OPENS D E'
COM 'D 60309-69535 MRSHLND5-LAC TAP5 CKT 1   OPENS C E'
COM 'E 69523-69535 GENOA  5-LAC TAP5 CKT 1   OPENS C D'
COM '-------------------------------------------------------'
CONTINGENCY '875       1'
TRIP LINE FROM BUS 60302 TO BUS 60308 CKT 1
TRIP LINE FROM BUS 69523 TO BUS 69535 CKT 1
COM 'Also trips the following because of B'
TRIP LINE FROM BUS 60308 TO BUS 69535 CKT 1
TRIP LINE FROM BUS 60309 TO BUS 69535 CKT 1
END
CONTINGENCY '875       2'
COM 'Multi-terminal portion'
TRIP LINE FROM BUS 60308 TO BUS 69535 CKT 1
TRIP LINE FROM BUS 60309 TO BUS 69535 CKT 1
TRIP LINE FROM BUS 69523 TO BUS 69535 CKT 1
END
COM '880  Defined as  tower'
COM 'A 69523-69527 GENOA  5-HARMONY5 CKT 1   OPENS  B  tower'
COM 'B 69523-34021 GENOA  5-LANSING5 CKT 1   OPENS  A  tower'
COM '-------------------------------------------------------'
CONTINGENCY '880    '
TRIP LINE FROM BUS 69523 TO BUS 69527 CKT 1
TRIP LINE FROM BUS 69523 TO BUS 34021 CKT 1
END
COM '885  Defined as multi-terminal'
COM 'A 69507-69511 SENECA 5-BELLCTR5 CKT 1   OPENS  B'
COM 'B 69507-69523 SENECA 5-GENOA  5 CKT 1   OPENS  A'
COM '-------------------------------------------------------'
CONTINGENCY '885    '
TRIP LINE FROM BUS 69507 TO BUS 69511 CKT 1
TRIP LINE FROM BUS 69507 TO BUS 69523 CKT 1
END
COM '  END WISCONSIN AREA CONTINGENCIES'
COM ' '
CONTINGENCY 'LAKF-FOX DBL'
TRIP LINE FROM BUS 34007 TO BUS 34008 CKT 1
TRIP LINE FROM BUS 34007 TO BUS 34008 CKT 2
END

END
```

APPENDIX D

SCREEN ACCC REPORT FOR GI-0304 INTERCONNECTION

SUMMER PEAK (GI-0304 vs PRE GI-0304)

```
SCREEN RESULTS FILE NAME: SP-GI-0304-accc-sc.dat

SCREENACCC PROGRAM (VERSION: BETA-14, 08/02/02, SCS)  ----- DATE: WED, SEP 01 2004  8:41

***** ACCC FILE #1: SP07AA.GI-0303-GR2-REV-accc.out
***** ACCC DATE   : THU, AUG 05 2004   9:39

GI-0303 SU PK CASE FROM 2002 SERIES,2007 SUMR PK
SP07AA.GI-0303.SAV POI: WHITE 115 KV BUS / SUMMER PEAK

ACCC FILE #1 SCANNING LIMIT/RATING:
  LOADING LIMIT   90.0% OF RATE: A

DISTRIBUTION FACTOR FILE:     temp.dfx
SUBSYSTEM DESCRIPTION FILE:   gr2.sub
MONITORED ELEMENT FILE:       gr2.mon
CONTINGENCY DESCRIPTION FILE: GR2.con

***** ACCC FILE #2: SP07AA.GI-0304-GR2-REV-accc.out
***** ACCC DATE   : FRI, AUG 06 2004   8:49

GI-0304 SU PK CASE FROM 2002 SERIES,2007 SUMR PK
SP07AA.GI-0304.SAV / SUMMER PEAK

ACCC FILE #2 SCANNING LIMIT/RATING:
  LOADING LIMIT   90.0% OF RATE: A

DISTRIBUTION FACTOR FILE:     temp.dfx
SUBSYSTEM DESCRIPTION FILE:   gr2.sub
MONITORED ELEMENT FILE:       gr2.mon
CONTINGENCY DESCRIPTION FILE: GR2.con


***** CRITERIA FOR COMPARING ACCC FILE #2 WITH ACCC FILE #1

  LOADING CHANGE BASED ON MINIMUM % RATING INCREASE OF: -999.00 %  AND MIN MVA INCREASE OF:    0.00 MVA

  VOLTAGE CHANGE BASED ON MINIMUM PU VOLTAGE CHANGE OF: -999.00000 PU


**** LOADING LIMITER CHANGES ****

==================================================================================================================
   1)  6001 YANKEE 7 -  6002 YANKGEN  CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 985  : 60119 LKYNKTN7 - 60279 BUFFRID7 CKT: 1   205.1   205.1   222.0   222.0    92.4    92.4     0.0
  SINGLE 1293 : 60287 NOBLES 7 - 60369 FENTON 7 CKT: C   204.9   204.9   222.0   222.0    92.3    92.3     0.0
  BASE CASE   : **       BASE CASE      **               201.6   201.6   222.0   222.0    90.8    90.8     0.0

==================================================================================================================
   2)  6001 YANKEE 7 - 66337 WHITE2 7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 985  : 60119 LKYNKTN7 - 60279 BUFFRID7 CKT: 1   388.5   388.4   310.0   310.0   123.2   123.2     0.0
  SINGLE 1085 : 60170 MARSHAL7 - 60171 LYON CO7 CKT: 1   341.5   341.5   310.0   310.0   107.5   107.5     0.0
  SINGLE 983  : 60119 LKYNKTN7 - 60171 LYON CO7 CKT: 1   339.8   339.8   310.0   310.0   106.9   107.0    -0.1
  SINGLE 1049 : 60148 MINVALY7 - 60171 LYON CO7 CKT: 1   337.5   337.5   310.0   310.0   106.2   106.2     0.0
  SINGLE 1003 : 60126 SPLT RK3 - 60286 NOBLES 3 CKT: C   333.0   333.0   310.0   310.0   104.6   104.6     0.0
  SINGLE 984  : 60119 LKYNKTN7 - 60171 LYON CO7 CKT: C   332.6   332.6   310.0   310.0   104.6   104.6     0.0
  SINGLE 1373 : 60371 ERIE RD7 - 66508 S3     7 CKT: 1   331.9   331.9   310.0   310.0   104.3   104.4    -0.1
  SINGLE 2466 : 66508 S3     7 - 66551 GRANITF7 CKT: 1   326.8   326.8   310.0   310.0   102.7   102.7     0.0
```

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SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   312.8   312.8   310.0   310.0    98.2    98.2     0.0
SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1   310.6   310.6   310.0   310.0    97.5    97.5     0.0
SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   307.9   .....   310.0   .....    96.9   .....   *NEW*
SINGLE 1    :  6001 YANKEE 7 - 60279 BUFFRID7 CKT: 1   301.0   301.0   310.0   310.0    94.1    94.1     0.0
SINGLE 2949 : 60214 HIBRDGE7 - 60010 HIBRD76G CKT: 1   .....   314.6   .....   310.0   .....    98.8  *ELIM*
*** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

==================================================================================================================
 3)  6450 PRIMGHAR -  6460 GI0304F1 CKT:  1  **NEW** PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
BASE CASE   : **       BASE CASE      **                80.3   .....    88.0   .....    91.3   .....   *NEW*

==================================================================================================================
 4) 34004 ELK    5 - 34223 ELK    8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
SINGLE 14   : 34004 ELK    5 - 34223 ELK    8 CKT: 2    59.2    59.2    33.6    33.6   176.1   176.1     0.0
BASE CASE   : **       BASE CASE      **                34.8    34.8    33.6    33.6   103.5   103.5     0.0
SINGLE 15   : 34005 HRN LK 5 - 34007 LAKEFLD5 CKT: 1    33.7    33.7    33.6    33.6   100.4   100.4     0.0
SINGLE 362  : 34219 FULDA J8 - 62717 FULDA  8 CKT: 1    32.9    32.9    33.6    33.6    98.0    98.0     0.0
SINGLE 367  : 34223 ELK    8 - 62717 FULDA  8 CKT: 1    31.7    31.7    33.6    33.6    94.5    94.5     0.0
SINGLE 1977 : 62720 WRTHNG 8 - 62721 WRT TP 8 CKT: 1    31.6    31.6    33.6    33.6    94.0    94.0     0.0

==================================================================================================================
 5) 34006 LAKEFLD3 -  3400 G164     CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
SINGLE 1003 : 60126 SPLT RK3 - 60286 NOBLES 3 CKT: C   203.2   203.1   222.0   222.0    91.5    91.5     0.0
SINGLE 2904 : 60108 WILMART3 -  8001 G261-ST  CKT: 1   201.9   201.8   222.0   222.0    91.0    90.9     0.1
SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1   201.9   201.8   222.0   222.0    90.9    90.9     0.0
BASE CASE   : **       BASE CASE      **               200.7   200.7   222.0   222.0    90.4    90.4     0.0

==================================================================================================================
 6) 34007 LAKEFLD5 -  6006 G262     CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
BASE CASE   : **       BASE CASE      **               201.4   201.4   220.0   220.0    91.5    91.6    -0.1

==================================================================================================================
 7) 34008 FOX LK 5 - 34011 FOXLK53G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
BASE CASE   : **       BASE CASE      **                86.6    86.6    85.0    85.0   101.9   101.9     0.0
SINGLE 32   : 34009 WINBAGO5 - 61932 RUTLAND5 CKT: 1    83.7    83.6    85.0    85.0    98.5    98.4     0.1
SINGLE 28   : 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1    82.7    82.6    85.0    85.0    97.3    97.2     0.1

==================================================================================================================
 8) 34015 LIME CK5 - 34016 EMERY  5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   330.9   .....   200.0   .....   162.2   .....   *NEW*
SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   299.2   296.1   200.0   200.0   146.6   145.2     1.4
SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1   290.3   287.4   200.0   200.0   142.3   140.9     1.4
SINGLE 32   : 34009 WINBAGO5 - 61932 RUTLAND5 CKT: 1   289.0   286.2   200.0   200.0   141.7   140.3     1.4
SINGLE 21   : 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1   283.0   280.0   200.0   200.0   138.7   137.2     1.5
SINGLE 28   : 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1   282.6   279.9   200.0   200.0   138.5   137.2     1.3
SINGLE 550  : 34393 MCHW1068 - 34395 EMERY S8 CKT: 1   281.2   278.7   200.0   200.0   137.9   136.6     1.3
SINGLE 33   : 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1   280.9   278.1   200.0   200.0   137.7   136.3     1.4
SINGLE 51   : 34016 EMERY  5 - 34396 EMERY N8 CKT: 1   280.1   277.6   200.0   200.0   137.3   136.1     1.2
SINGLE 50   : 34016 EMERY  5 - 34395 EMERY S8 CKT: 1   280.1   277.6   200.0   200.0   137.3   136.1     1.2
SINGLE 944  : 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1   279.0   276.6   200.0   200.0   136.8   135.6     1.2
SINGLE 539  : 34384 MCARMOR8 - 34396 EMERY N8 CKT: 1   274.1   271.6   200.0   200.0   134.4   133.1     1.3
SINGLE 538  : 34383 MC 25ST8 - 34385 MC NWT 8 CKT: 1   271.0   268.5   200.0   200.0   132.8   131.6     1.2
SINGLE 537  : 34383 MC 25ST8 - 34384 MCARMOR8 CKT: 1   271.0   268.5   200.0   200.0   132.8   131.6     1.2
SINGLE 541  : 34385 MC NWT 8 - 34387 MCLPCSS8 CKT: 1   268.9   266.5   200.0   200.0   131.8   130.6     1.2
SINGLE 155  : 34072 FRNKLIN7 - 34077 IA FALS7 CKT: 1   268.4   266.0   200.0   200.0   131.5   130.4     1.1
SINGLE 156  : 34072 FRNKLIN7 - 34571 FRNKLN_Y CKT: 1   268.4   266.0   200.0   200.0   131.5   130.4     1.1
SINGLE 52   : 34017 CGORDO_5 - 34139 HANCOCK5 CKT: 1   267.2   266.6   200.0   200.0   131.0   130.7     0.3
```

SINGLE 160	: 34075 ELDORA 7 - 34077 IA FALS7 CKT: 1	266.2	263.7	200.0	200.0	130.5	129.3	1.2
SINGLE 20	: 34006 LAKEFLD3 - 60286 NOBLES 3 CKT: C	266.1	263.7	200.0	200.0	130.5	129.3	1.2
SINGLE 552	: 34395 EMERY S8 - 34403 CL LAKT8 CKT: 1	266.3	263.9	200.0	200.0	130.5	129.4	1.1
SINGLE 543	: 34387 MCLPCSS8 - 34389 MC LPC 8 CKT: 1	265.9	263.5	200.0	200.0	130.3	129.2	1.1
SINGLE 556	: 34401 6THAVET8 - 34403 CL LAKT8 CKT: 1	265.5	263.1	200.0	200.0	130.2	129.0	1.2
SINGLE 549	: 34393 MCHW1068 - 34394 MC 5DEL8 CKT: 1	265.6	263.1	200.0	200.0	130.2	129.0	1.2
SINGLE 59	: 34019 HAZLTON5 - 61930 WINDSOR5 CKT: 1	265.4	263.0	200.0	200.0	130.1	128.9	1.2
SINGLE 55	: 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1	265.3	263.6	200.0	200.0	130.1	129.2	0.9
SINGLE 161	: 34075 ELDORA 7 - 34169 WELSBGT7 CKT: 1	265.3	262.8	200.0	200.0	130.0	128.8	1.2
SINGLE 23	: 34007 LAKEFLD5 - 34008 FOX LK 5 CKT: 2	264.9	262.4	200.0	200.0	129.9	128.6	1.3
SINGLE 1013	: 60133 SHEYNNE4 - 63336 AUDUBON4 CKT: 1	264.9	.....	200.0	.....	129.9	.....	*NEW*
SINGLE 557	: 34401 6THAVET8 - 34411 CLGRTLK8 CKT: 1	264.8	262.4	200.0	200.0	129.8	128.6	1.2
SINGLE 114	: 34051 TOLEDO 7 - 34066 M-TOWN 7 CKT: 1	264.8	262.3	200.0	200.0	129.8	128.6	1.2
SINGLE 951	: 60105 PR ISLD3 - 61950 BYRON 3 CKT: 1	264.8	262.0	200.0	200.0	129.8	128.4	1.4
SINGLE 955	: 60107 W FARIB7 - 61952 S FARIB5 CKT: 1	264.6	262.1	200.0	200.0	129.7	128.5	1.2
SINGLE 60	: 34020 HAZL S 5 - 34135 DUNDEE 5 CKT: 1	264.4	261.9	200.0	200.0	129.6	128.4	1.2
SINGLE 952	: 60107 W FARIB7 - 60265 LOON TP7 CKT: C	264.4	261.9	200.0	200.0	129.6	128.4	1.2
SINGLE 22	: 34007 LAKEFLD5 - 34008 FOX LK 5 CKT: 1	264.4	262.0	200.0	200.0	129.6	128.4	1.2
SINGLE 560	: 34405 CLNNGST8 - 34406 CLNNG S8 CKT: 1	264.5	262.1	200.0	200.0	129.6	128.5	1.1
SINGLE 561	: 34406 CLNNG S8 - 34407 NNG MTR8 CKT: 1	264.4	262.0	200.0	200.0	129.6	128.4	1.2
SINGLE 553	: 34396 EMERY N8 - 34405 CLNNGST8 CKT: 1	264.5	262.1	200.0	200.0	129.6	128.5	1.1
SINGLE 145	: 34066 M-TOWN 7 - 34085 BLRSTWN7 CKT: 1	264.2	261.7	200.0	200.0	129.5	128.3	1.2
SINGLE 429	: 34265 WALTERS8 - 34285 ALDEN J8 CKT: 1	264.2	261.7	200.0	200.0	129.5	128.3	1.2
SINGLE 455	: 34285 ALDEN J8 - 34286 ALEAWST8 CKT: 1	264.0	261.6	200.0	200.0	129.4	128.2	1.2
SINGLE 24	: 34007 LAKEFLD5 - 34137 TRIBOJI5 CKT: 1	263.9	.....	200.0	.....	129.4	.....	*NEW*
SINGLE 974	: 60114 ELM CRK3 - 60151 MNTCELO3 CKT: 1	264.0	261.6	200.0	200.0	129.4	128.2	1.2
SINGLE 115	: 34051 TOLEDO 7 - 34083 BL.PLN.7 CKT: 1	263.9	261.5	200.0	200.0	129.4	128.2	1.2
SINGLE 418	: 34258 WBGOJ S8 - 34259 WBGO T8 CKT: 1	263.7	261.3	200.0	200.0	129.3	128.1	1.2
SINGLE 419	: 34259 WBGO T8 - 62329 WNBGOTP8 CKT: 1	263.7	261.3	200.0	200.0	129.3	128.1	1.2
SINGLE 41	: 34013 WNBAGOS5 - 34258 WBGOJ S8 CKT: 1	263.7	261.3	200.0	200.0	129.3	128.1	1.2
SINGLE 9	: 6450 PRIMGHAR - 66566 SIOUXCY5 CKT: 1	263.9	.....	200.0	.....	129.3	.....	*NEW*
SINGLE 173	: 34084 PARNEL 5 - 34185 POWESHK5 CKT: 1	263.7	261.2	200.0	200.0	129.3	128.1	1.2
SINGLE 420	: 34260 DELEAST8 - 62329 WNBGOTP8 CKT: 1	263.6	261.1	200.0	200.0	129.2	128.0	1.2
SINGLE 4	: 6010 ELLSBRO - 60362 CHANRMB7 CKT: 1	263.5	261.1	200.0	200.0	129.2	128.0	1.2
SINGLE 30	: 34009 WINBAGO5 - 34257 WBGOJ N8 CKT: 1	263.6	261.2	200.0	200.0	129.2	128.0	1.2
SINGLE 163	: 34079 TRAER 5 - 34087 DYSART 5 CKT: 1	263.5	261.2	200.0	200.0	129.2	128.0	1.2
SINGLE 146	: 34066 M-TOWN 7 - 34169 WELSBGT7 CKT: 1	263.5	260.9	200.0	200.0	129.2	127.9	1.3
SINGLE 300	: 34185 POWESHK5 - 34191 REASNOR5 CKT: 1	263.5	261.0	200.0	200.0	129.2	128.0	1.2
SINGLE 70	: 34028 LORE 5 - 34033 TRK RIV5 CKT: 1	263.6	261.3	200.0	200.0	129.2	128.1	1.1
SINGLE 3	: 6010 ELLSBRO - 60119 LKYNKTN7 CKT: 1	263.5	261.1	200.0	200.0	129.2	128.0	1.2
SINGLE 177	: 34089 VINTON 5 - 34091 ARNOLD 5 CKT: 1	263.5	.....	200.0	.....	129.1	.....	*NEW*
SINGLE 234	: 34129 LIBERTY5 - 34135 DUNDEE 5 CKT: 1	263.4	261.0	200.0	200.0	129.1	127.9	1.2
SINGLE 421	: 34260 DELEAST8 - 62333 EASTON 8 CKT: 1	263.4	261.0	200.0	200.0	129.1	128.0	1.1
SINGLE 143	: 34065 NEVADA 7 - 34070 NEVADAT7 CKT: 1	263.5	261.1	200.0	200.0	129.1	128.0	1.1
SINGLE 453	: 34284 MINNLKT8 - 61938 WELLS CKT: 1	263.4	261.0	200.0	200.0	129.1	127.9	1.2
SINGLE 454	: 34284 MINNLKT8 - 62333 EASTON 8 CKT: 1	263.4	261.0	200.0	200.0	129.1	127.9	1.2
SINGLE 175	: 34085 BLRSTWN7 - 34099 PRAR CK7 CKT: 1	263.4	261.0	200.0	200.0	129.1	127.9	1.2
BASE CASE	: ** BASE CASE **	262.3	259.9	200.0	200.0	128.6	127.4	1.2
SINGLE 567	: 34416 IPWCRST8 - 34428 MADISNT8 CKT: 1	261.2	258.7	200.0	200.0	128.1	126.8	1.3
SINGLE 709	: 34606 GRNL CT8 - 34607 GRNCTTP8 CKT: 1	261.3	258.9	200.0	200.0	128.1	126.9	1.2
SINGLE 497	: 34318 ELGIN 8 - 69160 LTL VLY8 CKT: 1	261.3	258.9	200.0	200.0	128.1	126.9	1.2
SINGLE 244	: 34136 TRIBOJI8 - 34906 FLYCLD 8 CKT: 1	261.3	258.9	200.0	200.0	128.1	126.9	1.2
SINGLE 566	: 34415 CRESCO 8 - 34416 IPWCRST8 CKT: 1	261.2	258.7	200.0	200.0	128.1	126.8	1.3
SINGLE 159	: 34074 WELSBRG7 - 34530 WELSBRGY CKT: 1	261.2	258.7	200.0	200.0	128.0	126.8	1.2
SINGLE 31	: 34009 WINBAGO5 - 60120 BLUEETA5 CKT: 1	261.2	258.8	200.0	200.0	128.0	126.9	1.1
SINGLE 158	: 34074 WELSBRG7 - 34169 WELSBGT7 CKT: 1	261.2	258.7	200.0	200.0	128.0	126.8	1.2
SINGLE 466	: 34293 HAYWD#18 - 34305 GLENVIL8 CKT: 1	261.1	258.7	200.0	200.0	128.0	126.8	1.2
SINGLE 496	: 34318 ELGIN 8 - 34319 PLAINVW8 CKT: 1	261.2	258.8	200.0	200.0	128.0	126.9	1.1
SINGLE 457	: 34286 ALEAWST8 - 34288 ALEA NW8 CKT: 1	260.9	258.5	200.0	200.0	127.9	126.7	1.2
SINGLE 415	: 34256 WBGO 8 - 34257 WBGOJ N8 CKT: 1	260.9	258.5	200.0	200.0	127.9	126.7	1.2
SINGLE 527	: 34371 RICE 8 - 61980 RICE 5 CKT: 1	260.9	258.5	200.0	200.0	127.9	126.7	1.2
SINGLE 526	: 34371 RICE 8 - 34415 CRESCO 8 CKT: 1	260.7	258.3	200.0	200.0	127.8	126.6	1.2
SINGLE 462	: 34289 FAIRGNT8 - 34294 HAYWD#28 CKT: 1	260.6	258.2	200.0	200.0	127.7	126.5	1.2

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  SINGLE 43   : 34014 ADAMS  5 - 34306 ADAMS  8 CKT: 1   260.5   258.1   200.0   200.0   127.7   126.5     1.2
  SINGLE 53   : 34018 HAZLTON3 - 34019 HAZLTON5 CKT: 1   260.4   258.1   200.0   200.0   127.7   126.5     1.2
  SINGLE 949  : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 1   259.8   257.4   200.0   200.0   127.4   126.2     1.2
  SINGLE 950  : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2   259.8   257.3   200.0   200.0   127.4   126.1     1.3
  SINGLE 62   : 34021 LANSINGW - 34022 LANSING5 CKT: 1   259.8   257.5   200.0   200.0   127.4   126.2     1.2
  SINGLE 1003 : 60126 SPLT RK3 - 60286 NOBLES 3 CKT: C   259.2   256.8   200.0   200.0   127.1   125.9     1.2
  SINGLE 1008 : 60130 SPLTRTA3 - 66537 WHITE  3 CKT: 1   259.3   256.8   200.0   200.0   127.1   125.9     1.2
  SINGLE 1001 : 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1   259.3   256.8   200.0   200.0   127.1   125.9     1.2
  SINGLE 54   : 34018 HAZLTON3 - 34020 HAZL S 5 CKT: 2   258.8   256.3   200.0   200.0   126.9   125.7     1.2
  SINGLE 247  : 34137 TRIBOJI5 - 66563 SPENCER5 CKT: 1   258.6   254.5   200.0   200.0   126.8   124.8     2.0
  SINGLE 534  : 34379 LMCK W 8 - 34392 MCNEAST8 CKT: 1   258.4   256.0   200.0   200.0   126.7   125.5     1.2
  SINGLE 1009 : 60131 SPLTRTB3 - 66564 SIOUXCY3 CKT: 1   258.1   255.6   200.0   200.0   126.5   125.3     1.2
  SINGLE 1002 : 60126 SPLT RK3 - 60131 SPLTRTB3 CKT: 1   258.1   255.6   200.0   200.0   126.5   125.3     1.2
  SINGLE 34   : 34010 HAYWARD5 - 34014 ADAMS  5 CKT: 1   256.4   254.2   200.0   200.0   125.7   124.6     1.1
  SINGLE 49   : 34016 EMERY  5 - 34017 CGORDO_5 CKT: 1   251.2   250.7   200.0   200.0   123.2   122.9     0.3
  SINGLE 535  : 34380 LMCK E 8 - 34390 MCNWCSS8 CKT: 1   250.9   248.5   200.0   200.0   123.0   121.8     1.2
  SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1   245.5   245.0   200.0   200.0   120.3   120.1     0.2
  SINGLE 35   : 34010 HAYWARD5 - 34015 LIME CK5 CKT: 1   219.7   217.6   200.0   200.0   107.7   106.7     1.0
  SINGLE 42   : 34014 ADAMS  5 - 34015 LIME CK5 CKT: 1   197.7   196.1   200.0   200.0    96.9    96.1     0.8
  SINGLE 1012 : 60133 SHEYNNE4 - 66435 FARGO  4 CKT: 1   .....   261.0   .....   200.0   .....   127.9  *ELIM*
  SINGLE 1040 : 60145 FRANKLN7 - 61954 REDFLST7 CKT: P   .....   260.9   .....   200.0   .....   127.9  *ELIM*
  SINGLE 1041 : 60146 GRANCTY7 - 60161 STREGIS7 CKT: 1   .....   256.5   .....   200.0   .....   125.7  *ELIM*
  SINGLE 1047 : 60148 MINVALY7 - 60171 LYON CO7 CKT: 1   .....   261.0   .....   200.0   .....   127.9  *ELIM*
  SINGLE 1051 : 60148 MINVALY7 - 61954 REDFLST7 CKT: P   .....   261.1   .....   200.0   .....   128.0  *ELIM*
  *** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

==================================================================================================================
   9) 34051 TOLEDO 7 - 34154 TOLEDO 9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **                24.9    24.9    24.0    24.0   103.7   103.7     0.0

==================================================================================================================
  10) 34059 BOONE  7 - 34076 BNE JCT7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 132  : 34059 BOONE  7 - 34073 GR JCT 7 CKT: 1    72.3    72.3    60.0    60.0   118.5   118.4     0.1
  SINGLE 122  : 34054 GR JCT 5 - 34529 GRJCT5Y  CKT: 1    72.2    72.2    60.0    60.0   118.1   118.0     0.1
  SINGLE 157  : 34073 GR JCT 7 - 34529 GRJCT5Y  CKT: 1    72.2    72.2    60.0    60.0   118.0   118.0     0.0
  SINGLE 2747 : 34054 GR JCT 5 - 63771 DRAGER 5 CKT: 1    67.6    67.4    60.0    60.0   112.3   111.9     0.4
  SINGLE 117  : 34052 AMES   7 - 34076 BNE JCT7 CKT: 1    62.8    62.8    60.0    60.0   103.8   103.7     0.1
  SINGLE 2522 : 66565 SIOUXCY4 - 66567 DENISON4 CKT: 1    62.6    62.6    60.0    60.0   103.7   103.6     0.1
  SINGLE 112  : 34049 SCRANTN5 - 34050 GU CTR 5 CKT: 1    61.8    61.8    60.0    60.0   102.2   102.2     0.0
  SINGLE 113  : 34049 SCRANTN5 - 34054 GR JCT 5 CKT: 1    60.5    60.1    60.0    60.0   100.2    99.8     0.4
  SINGLE 109  : 34047 ANTA TP5 - 66561 DENISON5 CKT: 1    59.9    59.4    60.0    60.0    99.1    98.6     0.5
  SINGLE 2515 : 66561 DENISON5 - 66567 DENISON4 CKT: 1    58.6    58.6    60.0    60.0    97.0    97.0     0.0
  SINGLE 2812 : 34174 EICTAP 5 - 64096 BEACON 5 CKT: 1    57.4   .....    60.0   .....    95.0   .....   *NEW*
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    55.0    55.0    60.0    60.0    91.2    91.2     0.0
  SINGLE 129  : 34058 PERRY  5 - 34179 JASPER 5 CKT: 1   .....    54.6   .....    60.0   .....    90.3  *ELIM*
  SINGLE 957  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   .....    54.4   .....    60.0   .....    90.2  *ELIM*

==================================================================================================================
  11) 34059 BOONE  7 - 34163 BOONE  9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2754 : 34059 BOONE  7 - 34163 BOONE  9 CKT: 2    73.9    73.9    36.0    36.0   205.3   205.3     0.0
  BASE CASE   : **       BASE CASE      **                36.3    36.3    36.0    36.0   100.9   100.9     0.0

==================================================================================================================
  12) 34086 WILMSBG7 - 34153 WILMSBG9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2774 : 34086 WILMSBG7 - 34153 WILMSBG9 CKT: 2    18.7    18.7    13.0    13.0   144.1   144.1     0.0
  BASE CASE   : **       BASE CASE      **                13.4    13.4    13.0    13.0   103.1   103.1     0.0

==================================================================================================================
  13) 34105 HIAWATA5 - 34112 HIAWATA9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
```

BASE CASE : ** BASE CASE **	85.9	85.9	93.0	93.0	92.4	92.4	0.0

14) 34125 GR MND 8 - 34540 GR MND Y CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 289 : 34180 DENMARK5 - 34186 NEWPORT5 CKT: 1	25.7	25.7	24.0	24.0	107.1	107.1	0.0
SINGLE 2821 : 34186 NEWPORT5 - 63667 HWY61 5 CKT: 1	25.3	25.3	24.0	24.0	105.6	105.5	0.1
SINGLE 800 : 34715 W L TAP - 34717 SALS TAP CKT: 1	24.8	24.8	24.0	24.0	103.3	103.4	-0.1
SINGLE 209 : 34114 MUSSWTH8 - 34717 SALS TAP CKT: 1	24.8	24.8	24.0	24.0	103.3	103.4	-0.1
SINGLE 797 : 34714 NICH TAP - 34715 W L TAP CKT: 1	24.8	24.8	24.0	24.0	103.2	103.3	-0.1
SINGLE 803 : 34718 PIKE TAP - 34721 L TREE R CKT: 1	24.8	24.8	24.0	24.0	103.2	103.3	-0.1
SINGLE 2792 : 34114 MUSSWTH8 - 63670 ISETT 8 CKT: 1	24.8	.....	24.0	.....	103.2	.....	*NEW*
SINGLE 798 : 34714 NICH TAP - 34718 PIKE TAP CKT: 1	24.8	24.8	24.0	24.0	103.2	103.3	-0.1
BASE CASE : ** BASE CASE **	23.8	23.8	24.0	24.0	99.0	99.1	-0.1
SINGLE 75 : 34029 SALEM 3 - 34036 ROCK CK3 CKT: 1	22.7	22.7	24.0	24.0	94.8	94.8	0.0
SINGLE 2795 : 34122 E CALMS5 - 64425 DAVNPRT5 CKT: 1	22.6	22.5	24.0	24.0	94.0	93.9	0.1
SINGLE 82 : 34035 ROCKCKW5 - 34037 ROCK CK5 CKT: 1	22.3	22.3	24.0	24.0	92.9	92.9	0.0
SINGLE 86 : 34036 ROCK CK3 - 34037 ROCK CK5 CKT: 1	22.0	22.0	24.0	24.0	91.6	91.6	0.0
SINGLE 205 : 34113 FAIR 8 - 34870 MONTPELI CKT: 1	21.9	21.9	24.0	24.0	91.3	91.4	-0.1
SINGLE 2888 : 34870 MONTPELI - 64446 DEWTAP8 CKT: 1	21.9	21.9	24.0	24.0	91.3	91.4	-0.1
SINGLE 223 : 34125 GR MND 8 - 34819 GRMND TW CKT: 1	21.9	21.9	24.0	24.0	91.2	91.2	0.0
SINGLE 890 : 34817 DOME TAP - 34819 GRMND TW CKT: 1	21.9	21.9	24.0	24.0	91.1	91.1	0.0
SINGLE 888 : 34815 DIXON JC - 34817 DOME TAP CKT: 1	21.8	21.8	24.0	24.0	91.0	91.0	0.0
SINGLE 886 : 34812 BENNETT - 34815 DIXON JC CKT: 1	21.8	21.8	24.0	24.0	90.7	90.7	0.0
SINGLE 883 : 34810 WILTON J - 34812 BENNETT CKT: 1	21.6	21.6	24.0	24.0	90.1	90.1	0.0
SINGLE 802 : 34721 L TREE R - 34722 IOWA JCT CKT: 1	.....	24.8	.....	24.0	.....	103.3	*ELIM*

15) 34127 WYOMING5 - 34141 WYOMING9 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
BASE CASE : ** BASE CASE **	33.4	33.4	18.0	18.0	185.4	185.4	0.0

16) 34200 CNTRVIL8 - 34573 N CENT8 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 678 : 34573 N CENT8 - 34622 ISW TAP8 CKT: 1	56.3	56.3	48.0	48.0	117.2	117.2	0.0
SINGLE 722 : 34621 MORAVIT8 - 34622 ISW TAP8 CKT: 1	56.3	56.3	48.0	48.0	117.2	117.2	0.0
SINGLE 720 : 34619 AVERYTP8 - 34621 MORAVIT8 CKT: 1	52.8	52.8	48.0	48.0	110.0	110.1	-0.1
SINGLE 718 : 34618 TRAILJT8 - 34619 AVERYTP8 CKT: 1	52.8	52.8	48.0	48.0	110.0	110.0	0.0
SINGLE 719 : 34618 TRAILJT8 - 34895 TRAILTP8 CKT: 1	50.1	50.1	48.0	48.0	103.7	103.7	0.0
SINGLE 2893 : 34895 TRAILTP8 - 96487 2TRAIL CKT: 1	49.5	49.4	48.0	48.0	102.2	102.1	0.1
SINGLE 281 : 34177 APANOSE8 - 34554 APANOSEY CKT: 1	47.7	47.7	48.0	48.0	99.3	99.4	-0.1
SINGLE 299 : 34184 APANOSE5 - 34554 APANOSEY CKT: 1	47.7	47.7	48.0	48.0	99.3	99.4	-0.1
SINGLE 295 : 34182 WAPELLO5 - 34189 OTTUMWA5 CKT: 2	46.2	46.2	48.0	48.0	96.2	96.1	0.1
SINGLE 294 : 34182 WAPELLO5 - 34189 OTTUMWA5 CKT: 1	45.7	45.7	48.0	48.0	95.0	94.9	0.1
SINGLE 2819 : 34184 APANOSE5 - 30001 ADAIR CKT: 1	45.1	45.1	48.0	48.0	93.3	93.3	0.0
SINGLE 738 : 34639 LEON 8 - 34641 KELLERT8 CKT: 1	44.9	44.9	48.0	48.0	93.0	92.9	0.1
SINGLE 741 : 34641 KELLERT8 - 34643 GRRIVER8 CKT: 1	44.9	44.9	48.0	48.0	93.0	92.9	0.1
SINGLE 277 : 34175 CORYDON8 - 34635 ALERTON8 CKT: 1	44.9	44.9	48.0	48.0	93.0	92.9	0.1
SINGLE 734 : 34635 ALERTON8 - 34636 CLIO T8 CKT: 1	44.9	44.9	48.0	48.0	93.0	92.9	0.1
SINGLE 737 : 34636 CLIO T8 - 34639 LEON 8 CKT: 1	44.9	44.9	48.0	48.0	93.0	92.9	0.1
SINGLE 724 : 34624 NUMATAP8 - 34633 PROMISE8 CKT: 1	44.7	44.6	48.0	48.0	92.9	92.7	0.2
SINGLE 733 : 34633 PROMISE8 - 34634 HRVRDTP8 CKT: 1	44.7	44.6	48.0	48.0	92.9	92.7	0.2
SINGLE 326 : 34200 CNTRVIL8 - 34624 NUMATAP8 CKT: 1	44.7	44.6	48.0	48.0	92.9	92.7	0.2
SINGLE 276 : 34175 CORYDON8 - 34634 HRVRDTP8 CKT: 1	44.7	44.6	48.0	48.0	92.8	92.7	0.1
SINGLE 2868 : 34621 MORAVIT8 - 96482 2MORAVA CKT: 1	44.8	44.8	48.0	48.0	92.6	92.6	0.0
BASE CASE : ** BASE CASE **	43.5	43.5	48.0	48.0	90.1	90.0	0.1

17) 34225 HERONLK8 - 62355 MILOMA 8 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
BASE CASE : ** BASE CASE **	17.4	17.4	19.0	19.0	91.3	91.2	0.1

18) 34588 SLAKEN 8 - 34592 SLAKES 8 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 697 : 34592 SLAKES 8 - 66569 CRESTON8 CKT: 1	87.0	87.0	58.0	58.0	148.5	148.6	-0.1
SINGLE 2514 : 66560 CRESTON5 - 66569 CRESTON8 CKT: 1	73.0	73.0	58.0	58.0	124.6	124.7	-0.1
SINGLE 107 : 34047 ANTA TP5 - 34048 ANITA 5 CKT: 1	67.6	67.3	58.0	58.0	115.5	114.9	0.6
SINGLE 111 : 34048 ANITA 5 - 34524 ANITA Y CKT: 1	66.0	65.7	58.0	58.0	112.8	112.2	0.6
SINGLE 141 : 34064 ANITA 8 - 34524 ANITA Y CKT: 1	66.0	65.7	58.0	58.0	112.8	112.2	0.6
SINGLE 2823 : 34189 OTTUMWA5 - 34146 OTTUMW1G CKT: 1	65.0	64.7	58.0	58.0	110.9	110.4	0.5
SINGLE 751 : 34653 CRESTN8_ - 34654 ECRESTP8 CKT: 1	64.2	63.8	58.0	58.0	109.5	109.0	0.5
SINGLE 752 : 34654 ECRESTP8 - 66569 CRESTON8 CKT: 1	64.1	63.8	58.0	58.0	109.5	108.9	0.6
SINGLE 135 : 34060 WNTRST 5 - 66560 CRESTON5 CKT: 1	61.8	61.5	58.0	58.0	105.5	105.0	0.5
SINGLE 327 : 34202 LUCAS 8 - 34559 LUCAS Y CKT: 1	61.4	61.2	58.0	58.0	104.9	104.5	0.4
SINGLE 310 : 34189 OTTUMWA5 - 34192 LUCAS 5 CKT: 1	61.4	61.2	58.0	58.0	104.9	104.5	0.4
SINGLE 314 : 34192 LUCAS 5 - 34559 LUCAS Y CKT: 1	61.4	61.2	58.0	58.0	104.9	104.5	0.4
SINGLE 749 : 34650 ARISTAP8 - 34653 CRESTN8_ CKT: 1	60.5	60.2	58.0	58.0	103.4	102.9	0.5
SINGLE 747 : 34648 LENXTAP8 - 34650 ARISTAP8 CKT: 1	60.5	60.2	58.0	58.0	103.3	102.8	0.5
SINGLE 279 : 34176 MT AYR 8 - 34647 DIAGONL8 CKT: 1	60.5	60.2	58.0	58.0	103.3	102.8	0.5
SINGLE 745 : 34647 DIAGONL8 - 34648 LENXTAP8 CKT: 1	60.5	60.2	58.0	58.0	103.3	102.8	0.5
SINGLE 2522 : 66565 SIOUXCY4 - 66567 DENISON4 CKT: 1	59.6	59.3	58.0	58.0	101.7	101.3	0.4
SINGLE 2755 : 34060 WNTRST 5 - 64197 NORWLK5 CKT: 1	59.6	59.3	58.0	58.0	101.7	101.2	0.5
SINGLE 959 : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1	59.6	59.3	58.0	58.0	101.7	101.2	0.5
SINGLE 742 : 34643 GRRIVER8 - 34644 ELLSTNR8 CKT: 1	59.0	58.7	58.0	58.0	100.8	100.3	0.5
SINGLE 278 : 34176 MT AYR 8 - 34646 BEACNRC8 CKT: 1	59.0	58.8	58.0	58.0	100.8	100.3	0.5
SINGLE 2515 : 66561 DENISON5 - 66567 DENISON4 CKT: 1	59.0	58.8	58.0	58.0	100.8	100.3	0.5
SINGLE 133 : 34059 BOONE 7 - 34076 BNE JCT7 CKT: 1	59.0	58.8	58.0	58.0	100.8	100.3	0.5
SINGLE 744 : 34644 ELLSTNR8 - 34646 BEACNRC8 CKT: 1	59.0	58.7	58.0	58.0	100.7	100.2	0.5
SINGLE 958 : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1	58.9	58.7	58.0	58.0	100.6	100.2	0.4
SINGLE 108 : 34047 ANTA TP5 - 66560 CRESTON5 CKT: 1	58.9	58.8	58.0	58.0	100.5	100.4	0.1
SINGLE 109 : 34047 ANTA TP5 - 66561 DENISON5 CKT: 1	58.9	58.7	58.0	58.0	100.5	100.1	0.4
BASE CASE : ** BASE CASE **	57.9	57.6	58.0	58.0	98.8	98.3	0.5
SINGLE 3599 : 67131 LARAMIE3 - 67118 LARAM31G CKT: 1	56.5	56.3	58.0	58.0	96.5	96.1	0.4
SINGLE 696 : 34590 GRDRVRE8 - 34643 GRRIVER8 CKT: 1	56.4	56.2	58.0	58.0	96.3	95.9	0.4
SINGLE 688 : 34587 MURRAY 8 - 34589 HOPEVIL8 CKT: 1	56.4	56.2	58.0	58.0	96.3	95.9	0.4
SINGLE 694 : 34589 HOPEVIL8 - 34590 GRDRVRE8 CKT: 1	56.4	56.2	58.0	58.0	96.3	95.9	0.4
SINGLE 110 : 34048 ANITA 5 - 34050 GU CTR 5 CKT: 1	56.2	56.0	58.0	58.0	96.0	95.6	0.4
SINGLE 682 : 34583 ORIENT R - 34588 SLAKEN 8 CKT: 1	56.0	55.6	58.0	58.0	95.5	95.0	0.5
SINGLE 683 : 34583 ORIENT R - 34601 GRN MUN CKT: 1	55.9	55.5	58.0	58.0	95.4	94.8	0.6
SINGLE 139 : 34063 GRNFLD 8 - 34601 GRN MUN CKT: 1	55.8	55.5	58.0	58.0	95.3	94.7	0.6
SINGLE 738 : 34639 LEON 8 - 34641 KELLERT8 CKT: 1	55.7	55.5	58.0	58.0	95.1	94.7	0.4
SINGLE 741 : 34641 KELLERT8 - 34643 GRRIVER8 CKT: 1	55.7	55.5	58.0	58.0	95.1	94.8	0.3
SINGLE 737 : 34636 CLIO T8 - 34639 LEON 8 CKT: 1	55.7	55.5	58.0	58.0	95.0	94.7	0.3
SINGLE 734 : 34635 ALERTON8 - 34636 CLIO T8 CKT: 1	55.6	55.4	58.0	58.0	94.9	94.6	0.3
SINGLE 277 : 34175 CORYDON8 - 34635 ALERTON8 CKT: 1	55.6	55.4	58.0	58.0	94.9	94.5	0.4
SINGLE 689 : 34587 MURRAY 8 - 34658 OSCEOLA8 CKT: 1	53.3	53.2	58.0	58.0	91.0	90.8	0.2
SINGLE 2825 : 34202 LUCAS 8 - 64100 KNXVL 8 CKT: 1	.....	56.6	.....	58.0	.....	96.6	*ELIM*

19) 34592 SLAKES 8 - 34575 CRESTON9 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
BASE CASE : ** BASE CASE **	26.1	26.1	25.0	25.0	104.2	104.2	0.0

20) 34641 KELLERT8 - 34643 GRRIVER8 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 689 : 34587 MURRAY 8 - 34658 OSCEOLA8 CKT: 1	17.2	16.8	12.0	12.0	142.0	138.6	3.4
SINGLE 739 : 34640 WODBURN8 - 34659 OSCEREC8 CKT: 1	16.8	16.3	12.0	12.0	136.5	133.0	3.5
SINGLE 755 : 34658 OSCEOLA8 - 34659 OSCEREC8 CKT: 1	16.8	16.4	12.0	12.0	136.5	133.1	3.4
SINGLE 726 : 34625 LACONA 8 - 34640 WODBURN8 CKT: 1	16.7	16.3	12.0	12.0	135.4	131.9	3.5
SINGLE 725 : 34625 LACONA 8 - 34627 LUCAS T8 CKT: 1	16.7	16.2	12.0	12.0	135.3	131.8	3.5
SINGLE 328 : 34202 LUCAS 8 - 34627 LUCAS T8 CKT: 1	16.7	16.2	12.0	12.0	135.2	131.7	3.5
SINGLE 2823 : 34189 OTTUMWA5 - 34146 OTTUMW1G CKT: 1	16.3	16.0	12.0	12.0	135.2	132.7	2.5

SINGLE 325 : 34200 CNTRVIL8 - 34573 N CENT8 CKT: 1	14.4	14.1	12.0	12.0	118.4	115.9	2.5
SINGLE 135 : 34060 WNTRST 5 - 66560 CRESTON5 CKT: 1	13.4	13.1	12.0	12.0	109.8	107.1	2.7
SINGLE 959 : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1	13.3	13.0	12.0	12.0	108.6	106.1	2.5
SINGLE 2755 : 34060 WNTRST 5 - 64197 NORWLK5 CKT: 1	12.9	12.6	12.0	12.0	105.6	103.0	2.6
SINGLE 314 : 34192 LUCAS 5 - 34559 LUCAS Y CKT: 1	12.7	12.4	12.0	12.0	105.3	103.0	2.3
SINGLE 310 : 34189 OTTUMWA5 - 34192 LUCAS 5 CKT: 1	12.7	12.4	12.0	12.0	105.3	103.0	2.3
SINGLE 327 : 34202 LUCAS 8 - 34559 LUCAS Y CKT: 1	12.7	12.4	12.0	12.0	105.3	103.0	2.3
SINGLE 110 : 34048 ANITA 5 - 34050 GU CTR 5 CKT: 1	12.8	12.5	12.0	12.0	105.0	102.5	2.5
SINGLE 693 : 34588 SLAKEN 8 - 66586 CRESTNS8 CKT: 1	12.7	12.4	12.0	12.0	102.9	100.4	2.5
BASE CASE : ** BASE CASE **	11.7	11.4	12.0	12.0	95.4	93.0	2.4

21) 60156 PYNSVIL7 - 60702 PAYNES19 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
BASE CASE : ** BASE CASE **	30.2	30.2	28.0	28.0	107.8	107.8	0.0

22) 60156 PYNSVIL7 - 60760 PAYNES 8 CKT: P	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 1070 : 60156 PYNSVIL7 - 60760 PAYNES 8 CKT: P	70.9	70.8	47.0	47.0	151.0	150.7	0.3
SINGLE 1071 : 60156 PYNSVIL7 - 60760 PAYNES 8 CKT: P	70.9	70.8	47.0	47.0	151.0	150.7	0.3
SINGLE 1068 : 60156 PYNSVIL7 - 60162 WAKEFLD7 CKT: C	57.3	57.1	47.0	47.0	121.8	121.4	0.4
SINGLE 1068 : 60156 PYNSVIL7 - 60162 WAKEFLD7 CKT: C	57.3	57.1	47.0	47.0	121.8	121.4	0.4
SINGLE 1080 : 60162 WAKEFLD7 - 60717 WAKEFLD8 CKT: 1	55.1	55.1	47.0	47.0	117.3	117.2	0.1
SINGLE 1080 : 60162 WAKEFLD7 - 60717 WAKEFLD8 CKT: 1	55.1	55.1	47.0	47.0	117.3	117.2	0.1
SINGLE 2106 : 63222 ALEXAND7 - 67452 ALEXSS CKT: 1	51.1	51.0	47.0	47.0	108.8	108.6	0.2
SINGLE 2106 : 63222 ALEXAND7 - 67452 ALEXSS CKT: 1	51.1	51.0	47.0	47.0	108.8	108.6	0.2
SINGLE 1430 : 60748 WESTPRT8 - 60749 DGLAS C8 CKT: 1	50.9	50.9	47.0	47.0	108.3	108.3	0.0
SINGLE 1430 : 60748 WESTPRT8 - 60749 DGLAS C8 CKT: 1	50.9	50.9	47.0	47.0	108.3	108.3	0.0
SINGLE 2101 : 63219 GRANTCO7 - 63220 ELBOWLK7 CKT: 1	49.2	49.1	47.0	47.0	104.7	104.5	0.2
SINGLE 2101 : 63219 GRANTCO7 - 63220 ELBOWLK7 CKT: 1	49.2	49.1	47.0	47.0	104.7	104.5	0.2
SINGLE 1410 : 60707 BLUEHRN8 - 60717 WAKEFLD8 CKT: 1	48.6	48.5	47.0	47.0	103.3	103.2	0.1
SINGLE 1410 : 60707 BLUEHRN8 - 60717 WAKEFLD8 CKT: 1	48.6	48.5	47.0	47.0	103.3	103.2	0.1
SINGLE 1082 : 60163 WST CLD7 - 60732 WST CLD8 CKT: 1	48.4	48.3	47.0	47.0	102.9	102.8	0.1
SINGLE 1082 : 60163 WST CLD7 - 60732 WST CLD8 CKT: 1	48.4	48.3	47.0	47.0	102.9	102.8	0.1
SINGLE 2104 : 63220 ELBOWLK7 - 63221 BRANDN 7 CKT: 1	48.2	48.2	47.0	47.0	102.6	102.5	0.1
SINGLE 2104 : 63220 ELBOWLK7 - 63221 BRANDN 7 CKT: 1	48.2	48.2	47.0	47.0	102.6	102.5	0.1
SINGLE 1039 : 60144 DGLASCO7 - 63222 ALEXAND7 CKT: 1	47.7	47.7	47.0	47.0	101.6	101.5	0.1
SINGLE 1039 : 60144 DGLASCO7 - 63222 ALEXAND7 CKT: 1	47.7	47.7	47.0	47.0	101.6	101.5	0.1
SINGLE 1429 : 60747 VILLARD8 - 60748 WESTPRT8 CKT: 1	47.6	47.6	47.0	47.0	101.3	101.3	0.0
SINGLE 1429 : 60747 VILLARD8 - 60748 WESTPRT8 CKT: 1	47.6	47.6	47.0	47.0	101.3	101.3	0.0
SINGLE 3089 : 60747 VILLARD8 - 62756 LEVEN 8 CKT: 1	47.3	47.2	47.0	47.0	100.5	100.4	0.1
SINGLE 3089 : 60747 VILLARD8 - 62756 LEVEN 8 CKT: 1	47.3	47.2	47.0	47.0	100.5	100.4	0.1
SINGLE 2105 : 63221 BRANDN 7 - 67452 ALEXSS CKT: 1	47.1	47.1	47.0	47.0	100.3	100.1	0.2
SINGLE 2105 : 63221 BRANDN 7 - 67452 ALEXSS CKT: 1	47.1	47.1	47.0	47.0	100.3	100.1	0.2
SINGLE 2919 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1	47.0	46.9	47.0	47.0	99.9	99.8	0.1
SINGLE 2919 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1	47.0	46.9	47.0	47.0	99.9	99.8	0.1
SINGLE 2194 : 63329 WAHPETN4 - 63331 FERGSFL4 CKT: 1	46.7	46.6	47.0	47.0	99.4	99.2	0.2
SINGLE 2194 : 63329 WAHPETN4 - 63331 FERGSFL4 CKT: 1	46.7	46.6	47.0	47.0	99.4	99.2	0.2
SINGLE 3074 : 60732 WST CLD8 - 62843 LSAUKTP8 CKT: 1	46.6	46.6	47.0	47.0	99.2	99.1	0.1
SINGLE 3074 : 60732 WST CLD8 - 62843 LSAUKTP8 CKT: 1	46.6	46.6	47.0	47.0	99.2	99.1	0.1
SINGLE 1431 : 60749 DGLAS C8 - 60750 OSAKIS 8 CKT: 1	46.6	46.4	47.0	47.0	99.1	98.8	0.3
SINGLE 1431 : 60749 DGLAS C8 - 60750 OSAKIS 8 CKT: 1	46.6	46.4	47.0	47.0	99.1	98.8	0.3
SINGLE 1409 : 60707 BLUEHRN8 - 60711 RICHMND8 CKT: 1	46.4	46.4	47.0	47.0	98.8	98.7	0.1
SINGLE 1409 : 60707 BLUEHRN8 - 60711 RICHMND8 CKT: 1	46.4	46.4	47.0	47.0	98.8	98.7	0.1
SINGLE 3087 : 60746 GLENWD 8 - 62756 LEVEN 8 CKT: 1	46.1	46.1	47.0	47.0	98.1	98.0	0.1
SINGLE 3087 : 60746 GLENWD 8 - 62756 LEVEN 8 CKT: 1	46.1	46.1	47.0	47.0	98.1	98.0	0.1
SINGLE 2192 : 63327 HANKSON4 - 63329 WAHPETN4 CKT: 1	46.1	46.0	47.0	47.0	98.0	97.9	0.1
SINGLE 2192 : 63327 HANKSON4 - 63329 WAHPETN4 CKT: 1	46.1	46.0	47.0	47.0	98.0	97.9	0.1
SINGLE 958 : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1	46.0	46.0	47.0	47.0	97.9	97.8	0.1
SINGLE 958 : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1	46.0	46.0	47.0	47.0	97.9	97.8	0.1
SINGLE 2922 : 60156 PYNSVIL7 - 60702 PAYNES19 CKT: 1	45.9	45.8	47.0	47.0	97.7	97.5	0.2
SINGLE 2922 : 60156 PYNSVIL7 - 60702 PAYNES19 CKT: 1	45.9	45.8	47.0	47.0	97.7	97.5	0.2

SINGLE 2055	: 63051 HENNING4 - 63331 FERGSFL4 CKT: 1	45.9	45.8	47.0	47.0	97.6	97.4	0.2	
SINGLE 2055	: 63051 HENNING4 - 63331 FERGSFL4 CKT: 1	45.9	45.8	47.0	47.0	97.6	97.4	0.2	
SINGLE 2054	: 63051 HENNING4 - 63052 INMAN 4 CKT: 1	45.7	45.6	47.0	47.0	97.3	97.1	0.2	
SINGLE 2054	: 63051 HENNING4 - 63052 INMAN 4 CKT: 1	45.7	45.6	47.0	47.0	97.3	97.1	0.2	
SINGLE 2103	: 63219 GRANTCO7 - 66555 MORRIS 7 CKT: 1	45.6	45.6	47.0	47.0	97.1	96.9	0.2	
SINGLE 2103	: 63219 GRANTCO7 - 66555 MORRIS 7 CKT: 1	45.6	45.6	47.0	47.0	97.1	96.9	0.2	
SINGLE 1411	: 60710 FARM TP8 - 60711 RICHMND8 CKT: 1	45.4	45.4	47.0	47.0	96.6	96.6	0.0	
SINGLE 1411	: 60710 FARM TP8 - 60711 RICHMND8 CKT: 1	45.4	45.4	47.0	47.0	96.6	96.6	0.0	
SINGLE 959	: 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1	45.3	.....	47.0	.....	96.5	.....	*NEW*	
SINGLE 959	: 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1	45.3	.....	47.0	.....	96.5	.....	*NEW*	
SINGLE 2189	: 63314 BIGSTON4 - 63325 BROWNSV4 CKT: 1	45.2	45.2	47.0	47.0	96.2	96.1	0.1	
SINGLE 2189	: 63314 BIGSTON4 - 63325 BROWNSV4 CKT: 1	45.2	45.2	47.0	47.0	96.2	96.1	0.1	
SINGLE 1121	: 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1	45.2	45.1	47.0	47.0	96.1	95.9	0.2	
SINGLE 1121	: 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1	45.2	45.1	47.0	47.0	96.1	95.9	0.2	
SINGLE 1120	: 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C	45.2	45.1	47.0	47.0	96.1	95.9	0.2	
SINGLE 1120	: 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C	45.2	45.1	47.0	47.0	96.1	95.9	0.2	
SINGLE 1438	: 60759 STJOSPH8 - 61189 WATAB 8 CKT: 1	45.1	45.1	47.0	47.0	96.0	96.0	0.0	
SINGLE 1438	: 60759 STJOSPH8 - 61189 WATAB 8 CKT: 1	45.1	45.1	47.0	47.0	96.0	96.0	0.0	
SINGLE 2191	: 63325 BROWNSV4 - 63327 HANKSON4 CKT: 1	45.1	45.0	47.0	47.0	95.9	95.8	0.1	
SINGLE 2191	: 63325 BROWNSV4 - 63327 HANKSON4 CKT: 1	45.1	45.0	47.0	47.0	95.9	95.8	0.1	
SINGLE 1953	: 62527 ELMO 7 - 62531 INMAN 7 CKT: 1	45.1	45.0	47.0	47.0	95.9	95.8	0.1	
SINGLE 1953	: 62527 ELMO 7 - 62531 INMAN 7 CKT: 1	45.1	45.0	47.0	47.0	95.9	95.8	0.1	
SINGLE 2927	: 60160 SHERCO 3 - 60002 SHERC33G CKT: 1	45.0	45.0	47.0	47.0	95.8	95.7	0.1	
SINGLE 2927	: 60160 SHERCO 3 - 60002 SHERC33G CKT: 1	45.0	45.0	47.0	47.0	95.8	95.7	0.1	
SINGLE 1982	: 62752 MLTN TP7 - 67454 ALEXPLDM CKT: 1	44.9	44.9	47.0	47.0	95.6	95.4	0.2	
SINGLE 1982	: 62752 MLTN TP7 - 67454 ALEXPLDM CKT: 1	44.9	44.9	47.0	47.0	95.6	95.4	0.2	
SINGLE 1437	: 60758 JOHNS U8 - 61189 WATAB 8 CKT: 1	44.9	44.8	47.0	47.0	95.6	95.4	0.2	
SINGLE 1437	: 60758 JOHNS U8 - 61189 WATAB 8 CKT: 1	44.9	44.8	47.0	47.0	95.6	95.4	0.2	
SINGLE 1954	: 62527 ELMO 7 - 62752 MLTN TP7 CKT: 1	44.9	44.9	47.0	47.0	95.6	95.5	0.1	
SINGLE 1954	: 62527 ELMO 7 - 62752 MLTN TP7 CKT: 1	44.9	44.9	47.0	47.0	95.6	95.5	0.1	
SINGLE 1013	: 60133 SHEYNNE4 - 63336 AUDUBON4 CKT: 1	44.9	.....	47.0	.....	95.5	.....	*NEW*	
SINGLE 1013	: 60133 SHEYNNE4 - 63336 AUDUBON4 CKT: 1	44.9	.....	47.0	.....	95.5	.....	*NEW*	
SINGLE 1037	: 60144 DGLASCO7 - 60749 DGLAS C8 CKT: 1	44.8	44.7	47.0	47.0	95.3	95.2	0.1	
SINGLE 1037	: 60144 DGLASCO7 - 60749 DGLAS C8 CKT: 1	44.8	44.7	47.0	47.0	95.3	95.2	0.1	
SINGLE 1056	: 60150 MNVLTAP4 - 66550 GRANITF4 CKT: 1	44.8	44.7	47.0	47.0	95.3	95.1	0.2	
SINGLE 1056	: 60150 MNVLTAP4 - 66550 GRANITF4 CKT: 1	44.8	44.7	47.0	47.0	95.3	95.1	0.2	
SINGLE 1038	: 60144 DGLASCO7 - 60749 DGLAS C8 CKT: P	44.8	44.7	47.0	47.0	95.3	95.2	0.1	
SINGLE 1038	: 60144 DGLASCO7 - 60749 DGLAS C8 CKT: P	44.8	44.7	47.0	47.0	95.3	95.2	0.1	
SINGLE 2925	: 60160 SHERCO 3 - 60000 SHERC31G CKT: 1	44.7	44.6	47.0	47.0	95.2	94.9	0.3	
SINGLE 2925	: 60160 SHERCO 3 - 60000 SHERC31G CKT: 1	44.7	44.6	47.0	47.0	95.2	94.9	0.3	
SINGLE 2926	: 60160 SHERCO 3 - 60001 SHERC32G CKT: 1	44.7	44.6	47.0	47.0	95.2	94.9	0.3	
SINGLE 2926	: 60160 SHERCO 3 - 60001 SHERC32G CKT: 1	44.7	44.6	47.0	47.0	95.2	94.9	0.3	
SINGLE 1034	: 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1	44.7	44.7	47.0	47.0	95.2	95.1	0.1	
SINGLE 1034	: 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1	44.7	44.7	47.0	47.0	95.2	95.1	0.1	
SINGLE 1895	: 62427 WILLMAR8 - 63050 WILLMAR4 CKT: 1	44.7	44.6	47.0	47.0	95.1	94.9	0.2	
SINGLE 1895	: 62427 WILLMAR8 - 63050 WILLMAR4 CKT: 1	44.7	44.6	47.0	47.0	95.1	94.9	0.2	
SINGLE 1044	: 60146 GRANCTY7 - 60164 XRDS 7 CKT: 1	44.5	44.5	47.0	47.0	94.8	94.6	0.2	
SINGLE 1044	: 60146 GRANCTY7 - 60164 XRDS 7 CKT: 1	44.5	44.5	47.0	47.0	94.8	94.6	0.2	
SINGLE 2700	: 67453 ALEXSWM - 67454 ALEXPLDM CKT: 1	44.5	44.5	47.0	47.0	94.7	94.7	0.0	
SINGLE 2700	: 67453 ALEXSWM - 67454 ALEXPLDM CKT: 1	44.5	44.5	47.0	47.0	94.7	94.7	0.0	
SINGLE 2920	: 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1	44.5	44.4	47.0	47.0	94.6	94.5	0.1	
SINGLE 2920	: 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1	44.5	44.4	47.0	47.0	94.6	94.5	0.1	
SINGLE 1435	: 60755 FREEPRT8 - 60756 ALBANY 8 CKT: 1	44.5	44.4	47.0	47.0	94.6	94.5	0.1	
SINGLE 1435	: 60755 FREEPRT8 - 60756 ALBANY 8 CKT: 1	44.5	44.4	47.0	47.0	94.6	94.5	0.1	
BASE CASE	: ** BASE CASE **	43.2	43.1	47.0	47.0	91.9	91.7	0.2	
BASE CASE	: ** BASE CASE **	43.2	43.1	47.0	47.0	91.9	91.7	0.2	
BASE CASE	: ** BASE CASE **	.....	43.1	.....	47.0	.....	91.7	*ELIM*	
SINGLE 956	: 60108 WILMART3 - 60192 BLUE LK3 CKT: 1	.....	46.0	.....	47.0	.....	97.8	*ELIM*	
SINGLE 1012	: 60133 SHEYNNE4 - 66435 FARGO 4 CKT: 1	.....	44.1	.....	47.0	.....	93.9	*ELIM*	
SINGLE 1012	: 60133 SHEYNNE4 - 66435 FARGO 4 CKT: 1	.....	44.1	.....	47.0	.....	93.9	*ELIM*	
SINGLE 1032	: 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1	.....	44.7	.....	47.0	.....	95.1	*ELIM*	
SINGLE 1035	: 60144 DGLASCO7 - 60749 DGLAS C8 CKT: 1	.....	44.7	.....	47.0	.....	95.2	*ELIM*	
SINGLE 1036	: 60144 DGLASCO7 - 60749 DGLAS C8 CKT: P	.....	44.7	.....	47.0	.....	95.2	*ELIM*	

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SINGLE 1037 : 60144 DGLASCO7 - 63222 ALEXAND7 CKT: 1   .....    47.7   .....    47.0   .....   101.5  *ELIM*
SINGLE 1042 : 60146 GRANCTY7 - 60164 XRDS   7 CKT: 1   .....    44.5   .....    47.0   .....    94.6  *ELIM*
SINGLE 1054 : 60150 MNVLTAP4 - 66550 GRANITF4 CKT: 1   .....    44.7   .....    47.0   .....    95.1  *ELIM*
SINGLE 1066 : 60156 PYNSVIL7 - 60162 WAKEFLD7 CKT: C   .....    57.1   .....    47.0   .....   121.4  *ELIM*
SINGLE 1069 : 60156 PYNSVIL7 - 60760 PAYNES 8 CKT: P   .....    70.8   .....    47.0   .....   150.7  *ELIM*
SINGLE 1078 : 60162 WAKEFLD7 - 60717 WAKEFLD8 CKT: 1   .....    55.1   .....    47.0   .....   117.2  *ELIM*
SINGLE 1080 : 60163 WST CLD7 - 60732 WST CLD8 CKT: 1   .....    48.3   .....    47.0   .....   102.8  *ELIM*
SINGLE 1118 : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C   .....    45.1   .....    47.0   .....    95.9  *ELIM*
SINGLE 1119 : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1   .....    45.1   .....    47.0   .....    95.9  *ELIM*
SINGLE 1407 : 60707 BLUEHRN8 - 60711 RICHMND8 CKT: 1   .....    46.4   .....    47.0   .....    98.7  *ELIM*
SINGLE 1408 : 60707 BLUEHRN8 - 60717 WAKEFLD8 CKT: 1   .....    48.5   .....    47.0   .....   103.2  *ELIM*
SINGLE 1409 : 60710 FARM TP8 - 60711 RICHMND8 CKT: 1   .....    45.4   .....    47.0   .....    96.6  *ELIM*
SINGLE 1427 : 60747 VILLARD8 - 60748 WESTPRT8 CKT: 1   .....    47.6   .....    47.0   .....   101.3  *ELIM*
SINGLE 1428 : 60748 WESTPRT8 - 60749 DGLAS C8 CKT: 1   .....    50.9   .....    47.0   .....   108.3  *ELIM*
SINGLE 1429 : 60749 DGLAS C8 - 60750 OSAKIS 8 CKT: 1   .....    46.4   .....    47.0   .....    98.8  *ELIM*
SINGLE 1433 : 60755 FREEPRT8 - 60756 ALBANY 8 CKT: 1   .....    44.4   .....    47.0   .....    94.5  *ELIM*
SINGLE 1435 : 60758 JOHNS U8 - 61189 WATAB  8 CKT: 1   .....    44.8   .....    47.0   .....    95.4  *ELIM*
SINGLE 1436 : 60759 STJOSPH8 - 61189 WATAB  8 CKT: 1   .....    45.1   .....    47.0   .....    96.0  *ELIM*
SINGLE 1893 : 62427 WILLMAR8 - 63050 WILLMAR4 CKT: 1   .....    44.6   .....    47.0   .....    94.9  *ELIM*
SINGLE 1951 : 62527 ELMO   7 - 62531 INMAN  7 CKT: 1   .....    45.0   .....    47.0   .....    95.8  *ELIM*
SINGLE 1952 : 62527 ELMO   7 - 62752 MLTN TP7 CKT: 1   .....    44.9   .....    47.0   .....    95.5  *ELIM*
SINGLE 1980 : 62752 MLTN TP7 - 67454 ALEXPLDM CKT: 1   .....    44.9   .....    47.0   .....    95.4  *ELIM*
SINGLE 2052 : 63051 HENNING4 - 63052 INMAN  4 CKT: 1   .....    45.6   .....    47.0   .....    97.1  *ELIM*
SINGLE 2053 : 63051 HENNING4 - 63331 FERGSFL4 CKT: 1   .....    45.8   .....    47.0   .....    97.4  *ELIM*
SINGLE 2099 : 63219 GRANTCO7 - 63220 ELBOWLK7 CKT: 1   .....    49.1   .....    47.0   .....   104.5  *ELIM*
SINGLE 2101 : 63219 GRANTCO7 - 66555 MORRIS 7 CKT: 1   .....    45.6   .....    47.0   .....    96.9  *ELIM*
SINGLE 2102 : 63220 ELBOWLK7 - 63221 BRANDN 7 CKT: 1   .....    48.2   .....    47.0   .....   102.5  *ELIM*
SINGLE 2103 : 63221 BRANDN 7 - 67452 ALEXSS   CKT: 1   .....    47.1   .....    47.0   .....   100.1  *ELIM*
SINGLE 2104 : 63222 ALEXAND7 - 67452 ALEXSS   CKT: 1   .....    51.0   .....    47.0   .....   108.6  *ELIM*
SINGLE 2187 : 63314 BIGSTON4 - 63325 BROWNSV4 CKT: 1   .....    45.2   .....    47.0   .....    96.1  *ELIM*
SINGLE 2189 : 63325 BROWNSV4 - 63327 HANKSON4 CKT: 1   .....    45.0   .....    47.0   .....    95.8  *ELIM*
SINGLE 2190 : 63327 HANKSON4 - 63329 WAHPETN4 CKT: 1   .....    46.0   .....    47.0   .....    97.9  *ELIM*
SINGLE 2192 : 63329 WAHPETN4 - 63331 FERGSFL4 CKT: 1   .....    46.6   .....    47.0   .....    99.2  *ELIM*
SINGLE 2699 : 67453 ALEXSWM  - 67454 ALEXPLDM CKT: 1   .....    44.5   .....    47.0   .....    94.7  *ELIM*
SINGLE 2917 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1   .....    46.9   .....    47.0   .....    99.8  *ELIM*
SINGLE 2918 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1   .....    44.4   .....    47.0   .....    94.5  *ELIM*
SINGLE 2920 : 60156 PYNSVIL7 - 60702 PAYNES19 CKT: 1   .....    45.8   .....    47.0   .....    97.5  *ELIM*
SINGLE 2923 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1   .....    44.6   .....    47.0   .....    94.9  *ELIM*
SINGLE 2924 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1   .....    44.6   .....    47.0   .....    94.9  *ELIM*
SINGLE 2925 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1   .....    45.0   .....    47.0   .....    95.7  *ELIM*
SINGLE 3072 : 60732 WST CLD8 - 62843 LSAUKTP8 CKT: 1   .....    46.6   .....    47.0   .....    99.1  *ELIM*
SINGLE 3085 : 60746 GLENWD 8 - 62756 LEVEN  8 CKT: 1   .....    46.1   .....    47.0   .....    98.0  *ELIM*
SINGLE 3087 : 60747 VILLARD8 - 62756 LEVEN  8 CKT: 1   .....    47.2   .....    47.0   .....   100.4  *ELIM*
SINGLE 3089 : 60750 OSAKIS 8 - 62820 W UNION8 CKT: 1   .....    46.0   .....    47.0   .....    97.8  *ELIM*
SINGLE 3089 : 60750 OSAKIS 8 - 62820 W UNION8 CKT: 1   .....    46.0   .....    47.0   .....    97.8  *ELIM*
*** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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 23) 60160 SHERCO 3 - 60001 SHERC32G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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 670     1   : ** MULTIPLE CONTINGENCY **               733.2   733.1   800.0   800.0    91.7    91.6     0.1
             : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
             : 63031 BUNKER 3 - 60160 SHERCO 3 CKT: 1
             : 63031 BUNKER 3 - 60202 COON CK3 CKT: 1
             : 60202 COON CK3 - 61487 CNCMID2Y CKT: 1
             : 61487 CNCMID2Y - 60203 COON CK7 CKT: 1
             : 61487 CNCMID2Y - 60655 CNCTER29 CKT: 1
             : 63046 BUNKER 4 - 63031 BUNKER 3 CKT: 1
 022       1 : ** MULTIPLE CONTINGENCY **               731.5   731.5   800.0   800.0    91.4    91.4     0.0
             : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
             : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
             : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
             : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
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            : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
            : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
            : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
SINGLE 2920 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1   731.1   730.9   800.0   800.0    91.4    91.4     0.0
CNC-KOL/TER3: ** MULTIPLE CONTINGENCY **               730.8   730.8   800.0   800.0    91.3    91.4    -0.1
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
SINGLE 944  : 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1   726.1   726.0   800.0   800.0    90.8    90.7     0.1
022       5 : ** MULTIPLE CONTINGENCY **               725.6   725.6   800.0   800.0    90.7    90.7     0.0
            : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
            : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
            : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
SINGLE 1142 : 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1   725.2   725.0   800.0   800.0    90.7    90.6     0.1
670     2   : ** MULTIPLE CONTINGENCY **               725.5   725.4   800.0   800.0    90.7    90.7     0.0
            : 63031 BUNKER 3 - 60160 SHERCO 3 CKT: 1
            : 63031 BUNKER 3 - 60202 COON CK3 CKT: 1
            : 63046 BUNKER 4 - 63031 BUNKER 3 CKT: 1
BLL-PRI/IVH3: ** MULTIPLE CONTINGENCY **               725.1   725.0   800.0   800.0    90.6    90.6     0.0
            : 60192 BLUE LK3 - 60105 PR ISLD3 CKT: 1
            : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1   724.7   724.6   800.0   800.0    90.6    90.6     0.0
009   6     : ** MULTIPLE CONTINGENCY **               724.8   724.8   800.0   800.0    90.6    90.6     0.0
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
BLL-EDP/PKL3: ** MULTIPLE CONTINGENCY **               724.7   724.6   800.0   800.0    90.6    90.6     0.0
            : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
            : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1
009   8     : ** MULTIPLE CONTINGENCY **               723.9   723.9   800.0   800.0    90.5    90.5     0.0
            : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 1077 : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1   724.0   724.0   800.0   800.0    90.5    90.5     0.0
SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1   723.8   723.7   800.0   800.0    90.5    90.5     0.0
022       4 : ** MULTIPLE CONTINGENCY **               724.2   724.2   800.0   800.0    90.5    90.5     0.0
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
            : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
            : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
            : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
022      10 : ** MULTIPLE CONTINGENCY **               723.8   723.8   800.0   800.0    90.5    90.5     0.0
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
009   4     : ** MULTIPLE CONTINGENCY **               724.4   724.3   800.0   800.0    90.5    90.5     0.0
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
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             : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
             : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
             : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
             : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 2961 : 60240 RIVRSID7 - 60008 RIVRS78G CKT: 1   724.1   724.0   800.0   800.0    90.5    90.5     0.0
SINGLE 2925 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1   723.1   722.9   800.0   800.0    90.4    90.4     0.0
SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1   723.6   723.3   800.0   800.0    90.4    90.4     0.0
SINGLE 2960 : 60240 RIVRSID7 - 60007 RIVRS76G CKT: 1   722.9   722.8   800.0   800.0    90.4    90.3     0.1
SINGLE 1159 : 60202 COON CK3 - 63031 BUNKER 3 CKT: 1   723.3   723.3   800.0   800.0    90.4    90.4     0.0
IVH-BLL/RRK3: ** MULTIPLE CONTINGENCY **               722.9   722.7   800.0   800.0    90.4    90.3     0.1
             : 60217 INVRHLS3 - 60192 BLUE LK3 CKT: 1
             : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1
EDA-EDP/NMC7: ** MULTIPLE CONTINGENCY **               723.4   723.3   800.0   800.0    90.4    90.4     0.0
             : 60208 EDINA  7 - 60263 EDEN PR7 CKT: 1
             : 60208 EDINA  7 - 60280 NINE MI7 CKT: 1
SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1   722.4   722.2   800.0   800.0    90.3    90.3     0.0
SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1   722.0   721.8   800.0   800.0    90.3    90.2     0.1
SINGLE 1034 : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1   722.5   722.4   800.0   800.0    90.3    90.3     0.0
SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1   722.0   721.9   800.0   800.0    90.3    90.2     0.1
SINGLE 1152 : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1   722.1   722.1   800.0   800.0    90.3    90.3     0.0
CNC-DKN/SHC3: ** MULTIPLE CONTINGENCY **               722.1   722.0   800.0   800.0    90.3    90.2     0.1
             : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1
             : 60202 COON CK3 - 60272 MPLEGV23 CKT: 1
SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   722.8   722.5   800.0   800.0    90.3    90.3     0.0
022       9 : ** MULTIPLE CONTINGENCY **               722.3   722.3   800.0   800.0    90.3    90.3     0.0
             : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
             : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
PRI-RRK/RRK3: ** MULTIPLE CONTINGENCY **               722.5   722.4   800.0   800.0    90.3    90.3     0.0
             : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 1
             : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
PRI-BLL/RRK3: ** MULTIPLE CONTINGENCY **               722.7   722.5   800.0   800.0    90.3    90.3     0.0
             : 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1
             : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 1
SINGLE 1128 : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1   722.0   721.9   800.0   800.0    90.2    90.2     0.0
SINGLE 1069 : 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C   721.6   .....   800.0   .....    90.2   .....   *NEW*
SINGLE 1198 : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1   721.6   721.6   800.0   800.0    90.2    90.2     0.0
SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1   721.6   .....   800.0   .....    90.2   .....   *NEW*
SINGLE 3395 : 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1   721.5   .....   800.0   .....    90.2   .....   *NEW*
SINGLE 1258 : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1   721.8   721.8   800.0   800.0    90.2    90.2     0.0
SINGLE 1261 : 60252 TERMINL7 - 61491 TERMID2Y CKT: 1   721.6   721.6   800.0   800.0    90.2    90.2     0.0
SINGLE 1262 : 60252 TERMINL7 - 61492 TERMID1Y CKT: 1   721.6   721.6   800.0   800.0    90.2    90.2     0.0
SINGLE 1278 : 60270 MPLEGV13 - 63030 DICKNSN3 CKT: 1   721.8   721.8   800.0   800.0    90.2    90.2     0.0
SINGLE 1366 : 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C   721.6   .....   800.0   .....    90.2   .....   *NEW*
SINGLE 973  : 60114 ELM CRK3 - 60115 ELMCRK 7 CKT: 1   721.6   .....   800.0   .....    90.2   .....   *NEW*
SINGLE 974  : 60114 ELM CRK3 - 60151 MNTCELO3 CKT: 1   721.6   721.6   800.0   800.0    90.2    90.2     0.0
ALD-IDA/MEL7: ** MULTIPLE CONTINGENCY **               721.7   721.7   800.0   800.0    90.2    90.2     0.0
             : 60181 ALDRICH7 - 60216 INDIANA7 CKT: 1
             : 60182 ALDRICH7 - 60227 MEDLAKE7 CKT: 1
SINGLE 1781 : 62134 ELKR14S8 - 63043 ELK RIV4 CKT: 1   721.6   .....   800.0   .....    90.2   .....   *NEW*
SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1   721.7   721.6   800.0   800.0    90.2    90.2     0.0
SINGLE 948  : 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1   722.0   721.9   800.0   800.0    90.2    90.2     0.0
SINGLE 1057 : 60151 MNTCELO3 - 60152 MNTCELO4 CKT: 1   721.6   .....   800.0   .....    90.2   .....   *NEW*
SINGLE 2023 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1   721.7   721.6   800.0   800.0    90.2    90.2     0.0
SINGLE 2037 : 63031 BUNKER 3 - 63046 BUNKER 4 CKT: 1   721.8   721.6   800.0   800.0    90.2    90.2     0.0
SINGLE 2053 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1   721.8   721.7   800.0   800.0    90.2    90.2     0.0
SINGLE 2101 : 63219 GRANTCO7 - 63220 ELBOWLK7 CKT: 1   721.9   721.8   800.0   800.0    90.2    90.2     0.0
SINGLE 2919 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1   721.6   .....   800.0   .....    90.2   .....   *NEW*
SINGLE 1163 : 60203 COON CK7 - 60268 BRKLNPK7 CKT: 1   721.6   721.6   800.0   800.0    90.2    90.2     0.0
022       8 : ** MULTIPLE CONTINGENCY **               721.9   721.8   800.0   800.0    90.2    90.2     0.0
             : 60186 AS KING3 - 60221 KOLMNLK3 CKT: 1
             : 60199 CHIS CO3 - 60221 KOLMNLK3 CKT: 1
             : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 2
SINGLE 1166 : 60203 COON CK7 - 62090 PRKWOOD7 CKT: 1   721.9   721.8   800.0   800.0    90.2    90.2     0.0
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SINGLE 2939 : 60190 BLK DOG7 - 60011 BLK D75G CKT: 1   721.6   .....   800.0   .....    90.2   .....   *NEW*
660         : ** MULTIPLE CONTINGENCY **               721.7   721.6   800.0   800.0    90.2    90.2     0.0
            : 63043 ELK RIV4 - 63046 BUNKER 4 CKT: 1
            : 63043 ELK RIV4 - 62134 ELKR14S8 CKT: 2
SINGLE 2950 : 60214 HIBRDGE7 - 60009 HIBRD75G CKT: 1   721.8   721.7   800.0   800.0    90.2    90.2     0.0
SINGLE 2951 : 60214 HIBRDGE7 - 60010 HIBRD76G CKT: 1   721.9   721.8   800.0   800.0    90.2    90.2     0.0
SINGLE 1154 : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1   .....   721.6   .....   800.0   .....    90.2  *ELIM*
SINGLE 1163 : 60203 COON CK7 - 61488 CNCMID1Y CKT: 1   .....   721.6   .....   800.0   .....    90.2  *ELIM*
675         : ** MULTIPLE CONTINGENCY **               .....   722.4   .....   800.0   .....    90.3  *ELIM*
            : 60142 BENTON 3 - 63045 BENTON 4 CKT: 1
            : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1
            : 60142 BENTON 3 - 63045 BENTON 4 CKT: 2
680         : ** MULTIPLE CONTINGENCY **               .....   721.8   .....   800.0   .....    90.2  *ELIM*
            : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
            : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
700    1    : ** MULTIPLE CONTINGENCY **               .....   725.5   .....   800.0   .....    90.7  *ELIM*
            : 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1
            : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
            : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1
705       1 : ** MULTIPLE CONTINGENCY **               .....   724.9   .....   800.0   .....    90.6  *ELIM*
            : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1
            : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
            : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 1
705       3 : ** MULTIPLE CONTINGENCY **               .....   722.1   .....   800.0   .....    90.3  *ELIM*
            : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
            : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 1
765         : ** MULTIPLE CONTINGENCY **               .....   723.3   .....   800.0   .....    90.4  *ELIM*
            : 63048 RUSH CY4 - 60237 REDROCK4 CKT: 1
            : 60236 REDROCK3 - 60237 REDROCK4 CKT: 1
            : 60361 ROCKCR 4 - 63048 RUSH CY4 CKT: 1
795         : ** MULTIPLE CONTINGENCY **               .....   721.7   .....   800.0   .....    90.2  *ELIM*
            : 66550 GRANITF4 - 60150 MNVLTAP4 CKT: 1
            : 60148 MINVALY7 - 60149 MINVALT4 CKT: C
            : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1
            : 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1
            : 63054 PANTHER4 - 60742 PANTHER8 CKT: 1
*** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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24) 60160 SHERCO 3 - 60002 SHERC33G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 2920 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1   894.1   893.9   950.0   950.0    94.1    94.1     0.0
CNC-SHC/BUL3: ** MULTIPLE CONTINGENCY **               891.6   891.6   950.0   950.0    93.8    93.9    -0.1
            : 60202 COON CK3 - 60160 SHERCO 3 CKT: 1
            : 60202 COON CK3 - 63031 BUNKER 3 CKT: 1
SINGLE 944  : 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1   889.0   888.9   950.0   950.0    93.6    93.6     0.0
SINGLE 1142 : 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1   888.0   887.8   950.0   950.0    93.5    93.5     0.0
BLL-PRI/IVH3: ** MULTIPLE CONTINGENCY **               888.0   887.8   950.0   950.0    93.5    93.5     0.0
            : 60192 BLUE LK3 - 60105 PR ISLD3 CKT: 1
            : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
009   4     : ** MULTIPLE CONTINGENCY **               887.2   887.1   950.0   950.0    93.4    93.4     0.0
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
BLL-EDP/PKL3: ** MULTIPLE CONTINGENCY **               887.5   887.5   950.0   950.0    93.4    93.4     0.0
            : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
            : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1
SINGLE 2961 : 60240 RIVRSID7 - 60008 RIVRS78G CKT: 1   886.9   886.8   950.0   950.0    93.4    93.3     0.1
022       4 : ** MULTIPLE CONTINGENCY **               887.0   887.0   950.0   950.0    93.4    93.4     0.0
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
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	: 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1							
	: 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1							
	: 60251 TERMINL3 - 61492 TERMID1Y CKT: 1							
	: 61492 TERMID1Y - 60252 TERMINL7 CKT: 1							
	: 61492 TERMID1Y - 61187 TERTER19 CKT: 1							
SINGLE 1848	: 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1	887.5	887.4	950.0	950.0	93.4	93.4	0.0
SINGLE 1153	: 60202 COON CK3 - 60251 TERMINL3 CKT: 1	886.1	886.1	950.0	950.0	93.3	93.3	0.0
SINGLE 1778	: 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1	886.6	886.4	950.0	950.0	93.3	93.3	0.0
SINGLE 1078	: 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1	886.5	886.5	950.0	950.0	93.3	93.3	0.0
SINGLE 2925	: 60160 SHERCO 3 - 60000 SHERC31G CKT: 1	885.9	885.7	950.0	950.0	93.3	93.2	0.1
EDA-EDP/NMC7	: ** MULTIPLE CONTINGENCY **	886.1	886.1	950.0	950.0	93.3	93.3	0.0
	: 60208 EDINA 7 - 60263 EDEN PR7 CKT: 1							
	: 60208 EDINA 7 - 60280 NINE MI7 CKT: 1							
SINGLE 3362	: 61910 MILACA 4 - 63045 BENTON 4 CKT: 1	885.1	884.9	950.0	950.0	93.2	93.2	0.0
SINGLE 3372	: 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1	885.2	885.2	950.0	950.0	93.2	93.2	0.0
SINGLE 958	: 60108 WILMART3 - 60192 BLUE LK3 CKT: 1	885.5	885.3	950.0	950.0	93.2	93.2	0.0
SINGLE 1126	: 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1	885.1	885.1	950.0	950.0	93.2	93.2	0.0
SINGLE 2926	: 60160 SHERCO 3 - 60001 SHERC32G CKT: 1	885.8	885.6	950.0	950.0	93.2	93.2	0.0
SINGLE 2960	: 60240 RIVRSID7 - 60007 RIVRS76G CKT: 1	885.6	885.5	950.0	950.0	93.2	93.2	0.0
SINGLE 1034	: 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1	885.2	885.1	950.0	950.0	93.2	93.2	0.0
IVH-BLL/RRK3	: ** MULTIPLE CONTINGENCY **	885.6	885.5	950.0	950.0	93.2	93.2	0.0
	: 60217 INVRHLS3 - 60192 BLUE LK3 CKT: 1							
	: 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1							
PRI-RRK/RRK3	: ** MULTIPLE CONTINGENCY **	885.3	885.1	950.0	950.0	93.2	93.2	0.0
	: 60105 PR ISLD3 - 60236 REDROCK3 CKT: 1							
	: 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2							
PRI-BLL/RRK3	: ** MULTIPLE CONTINGENCY **	885.4	885.3	950.0	950.0	93.2	93.2	0.0
	: 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1							
	: 60105 PR ISLD3 - 60236 REDROCK3 CKT: 1							
SINGLE 1825	: 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1	884.4	884.3	950.0	950.0	93.1	93.1	0.0
SINGLE 1847	: 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1	884.7	884.7	950.0	950.0	93.1	93.1	0.0
SINGLE 1128	: 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1	884.7	884.6	950.0	950.0	93.1	93.1	0.0
SINGLE 2023	: 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1	884.4	884.3	950.0	950.0	93.1	93.1	0.0
SINGLE 2037	: 63031 BUNKER 3 - 63046 BUNKER 4 CKT: 1	884.5	884.4	950.0	950.0	93.1	93.1	0.0
SINGLE 2053	: 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1	884.5	884.4	950.0	950.0	93.1	93.1	0.0
SINGLE 2101	: 63219 GRANTCO7 - 63220 ELBOWLK7 CKT: 1	884.6	884.5	950.0	950.0	93.1	93.1	0.0
SINGLE 2919	: 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1	884.3	.....	950.0	.....	93.1	.....	*NEW*
SINGLE 1069	: 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C	884.3	.....	950.0	.....	93.1	.....	*NEW*
SINGLE 973	: 60114 ELM CRK3 - 60115 ELMCRK 7 CKT: 1	884.3	.....	950.0	.....	93.1	.....	*NEW*
SINGLE 2939	: 60190 BLK DOG7 - 60011 BLK D75G CKT: 1	884.3	.....	950.0	.....	93.1	.....	*NEW*
SINGLE 2950	: 60214 HIBRDGE7 - 60009 HIBRD75G CKT: 1	884.5	884.4	950.0	950.0	93.1	93.1	0.0
SINGLE 2951	: 60214 HIBRDGE7 - 60010 HIBRD76G CKT: 1	884.7	884.5	950.0	950.0	93.1	93.1	0.0
SINGLE 948	: 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1	884.7	884.6	950.0	950.0	93.1	93.1	0.0
SINGLE 3374	: 62297 BENTON 8 - 63045 BENTON 4 CKT: 1	884.3	.....	950.0	.....	93.1	.....	*NEW*
SINGLE 3395	: 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1	884.2	.....	950.0	.....	93.1	.....	*NEW*
CNC-DKN/SHC3	: ** MULTIPLE CONTINGENCY **	884.8	884.7	950.0	950.0	93.1	93.1	0.0
	: 60202 COON CK3 - 63030 DICKNSN3 CKT: 1							
	: 60202 COON CK3 - 60272 MPLEGV23 CKT: 1							
SINGLE 1166	: 60203 COON CK7 - 62090 PRKWOOD7 CKT: 1	884.6	884.5	950.0	950.0	93.1	93.1	0.0
KOL-CNC/TER3	: ** MULTIPLE CONTINGENCY **	884.9	884.9	950.0	950.0	93.1	93.2	-0.1
	: 60221 KOLMNLK3 - 60202 COON CK3 CKT: 1							
	: 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1							
KOL-ASK/CHI3	: ** MULTIPLE CONTINGENCY **	884.2	.....	950.0	.....	93.1	.....	*NEW*
	: 60221 KOLMNLK3 - 60186 AS KING3 CKT: 1							
	: 60221 KOLMNLK3 - 60199 CHIS CO3 CKT: 1							
SINGLE 1191	: 60213 GOPHER 7 - 60252 TERMINL7 CKT: 1	884.8	884.8	950.0	950.0	93.1	93.1	0.0
SINGLE 1216	: 60229 MOORELK7 - 60240 RIVRSID7 CKT: 1	884.4	884.4	950.0	950.0	93.1	93.1	0.0
SINGLE 1258	: 60251 TERMINL3 - 61492 TERMID1Y CKT: 1	884.7	884.7	950.0	950.0	93.1	93.1	0.0
SINGLE 1261	: 60252 TERMINL7 - 61491 TERMID2Y CKT: 1	884.3	884.3	950.0	950.0	93.1	93.1	0.0
SINGLE 1262	: 60252 TERMINL7 - 61492 TERMID1Y CKT: 1	884.3	884.3	950.0	950.0	93.1	93.1	0.0
SINGLE 1272	: 60258 WILSON 7 - 60280 NINE MI7 CKT: 1	884.7	884.7	950.0	950.0	93.1	93.1	0.0
SINGLE 1366	: 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C	884.3	.....	950.0	.....	93.1	.....	*NEW*
SINGLE 1684	: 61910 MILACA 4 - 62301 MILACA 8 CKT: 1	884.7	884.6	950.0	950.0	93.1	93.1	0.0

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SINGLE 1057 : 60151 MNTCELO3 - 60152 MNTCELO4 CKT: 1   884.3   .....   950.0   .....    93.1   .....   *NEW*
SINGLE 1781 : 62134 ELKR14S8 - 63043 ELK RIV4 CKT: 1   884.3   .....   950.0   .....    93.1   .....   *NEW*
022       8 : ** MULTIPLE CONTINGENCY **               .....   884.5   .....   950.0   .....    93.1  *ELIM*
            : 60186 AS KING3 - 60221 KOLMNLK3 CKT: 1
            : 60199 CHIS CO3 - 60221 KOLMNLK3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 2
022       9 : ** MULTIPLE CONTINGENCY **               .....   885.1   .....   950.0   .....    93.2  *ELIM*
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
022      10 : ** MULTIPLE CONTINGENCY **               .....   886.6   .....   950.0   .....    93.3  *ELIM*
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
022      12 : ** MULTIPLE CONTINGENCY **               .....   884.5   .....   950.0   .....    93.1  *ELIM*
            : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
            : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
            : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
            : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
660         : ** MULTIPLE CONTINGENCY **               .....   884.3   .....   950.0   .....    93.1  *ELIM*
            : 63043 ELK RIV4 - 63046 BUNKER 4 CKT: 1
            : 63043 ELK RIV4 - 62134 ELKR14S8 CKT: 2
665         : ** MULTIPLE CONTINGENCY **               .....   884.5   .....   950.0   .....    93.1  *ELIM*
            : 63043 ELK RIV4 - 60152 MNTCELO4 CKT: 1
            : 63043 ELK RIV4 - 62134 ELKR14S8 CKT: 1
670     1   : ** MULTIPLE CONTINGENCY **               .....   896.2   .....   950.0   .....    94.3  *ELIM*
            : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
            : 63031 BUNKER 3 - 60160 SHERCO 3 CKT: 1
            : 63031 BUNKER 3 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61487 CNCMID2Y CKT: 1
            : 61487 CNCMID2Y - 60203 COON CK7 CKT: 1
            : 61487 CNCMID2Y - 60655 CNCTER29 CKT: 1
            : 63046 BUNKER 4 - 63031 BUNKER 3 CKT: 1
670     2   : ** MULTIPLE CONTINGENCY **               .....   888.3   .....   950.0   .....    93.5  *ELIM*
            : 63031 BUNKER 3 - 60160 SHERCO 3 CKT: 1
            : 63031 BUNKER 3 - 60202 COON CK3 CKT: 1
            : 63046 BUNKER 4 - 63031 BUNKER 3 CKT: 1
670     3   : ** MULTIPLE CONTINGENCY **               .....   887.7   .....   950.0   .....    93.4  *ELIM*
            : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61487 CNCMID2Y CKT: 1
            : 61487 CNCMID2Y - 60203 COON CK7 CKT: 1
            : 61487 CNCMID2Y - 60655 CNCTER29 CKT: 1
675         : ** MULTIPLE CONTINGENCY **               .....   885.1   .....   950.0   .....    93.2  *ELIM*
            : 60142 BENTON 3 - 63045 BENTON 4 CKT: 1
            : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1
            : 60142 BENTON 3 - 63045 BENTON 4 CKT: 2
*** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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 25) 60170 MARSHAL7 - 60171 LYON CO7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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 SINGLE 1049 : 60148 MINVALY7 - 60171 LYON CO7 CKT: 1   203.5   202.9   127.9   127.9   156.3   155.9     0.4
 SINGLE 1293 : 60287 NOBLES 7 - 60369 FENTON 7 CKT: C   177.7   177.6   127.9   127.9   139.7   139.4     0.3
 SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   169.9   .....   127.9   .....   135.2   .....   *NEW*
 SINGLE 2501 : 66529 WATERTN3 - 66537 WHITE  3 CKT: 1   166.9   166.5   127.9   127.9   129.6   129.2     0.4
 SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   163.8   163.5   127.9   127.9   128.6   128.2     0.4
 SINGLE 2503 : 66530 WATERTN4 - 66550 GRANITF4 CKT: 1   163.2   162.9   127.9   127.9   127.7   127.4     0.3
 SINGLE 2449 : 66503 BLAIR  4 - 66550 GRANITF4 CKT: 1   162.2   161.1   127.9   127.9   126.9   126.9     0.0
 SINGLE 2238 : 66236 WATERT1T - 66529 WATERTN3 CKT: 1   164.2   163.7   127.9   127.9   126.9   126.5     0.4
 SINGLE 2239 : 66236 WATERT1T - 66530 WATERTN4 CKT: 1   164.2   163.7   127.9   127.9   126.9   126.5     0.4
 SINGLE 1396 : 60684 YELWMED8 - 60903 LYON CO8 CKT: 1   163.3   162.9   127.9   127.9   126.0   125.7     0.3
 SINGLE 994  : 60123 PIPESTN7 - 60125 PATHFDR7 CKT: 1   161.7   161.5   127.9   127.9   125.2   124.9     0.3
 SINGLE 1000 : 60125 PATHFDR7 - 60129 SPLT RK7 CKT: 1   161.8   161.5   127.9   127.9   125.2   125.0     0.2
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SINGLE 2448	: 66503 BLAIR 4	- 66530 WATERTN4	CKT: 1	161.6	161.2	127.9	127.9	124.9	124.6	0.3
SINGLE 1392	: 60683 MINNVAL8	- 60684 YELWMED8	CKT: 1	161.8	161.4	127.9	127.9	124.9	124.6	0.3
SINGLE 2927	: 60160 SHERCO 3	- 60002 SHERC33G	CKT: 1	159.3	159.1	127.9	127.9	124.1	123.7	0.4
SINGLE 21	: 34006 LAKEFLD3	- 60331 LKFLDXL3	CKT: 1	159.4	158.9	127.9	127.9	123.6	123.1	0.5
SINGLE 2926	: 60160 SHERCO 3	- 60001 SHERC32G	CKT: 1	158.4	158.1	127.9	127.9	122.9	122.6	0.3
SINGLE 2925	: 60160 SHERCO 3	- 60000 SHERC31G	CKT: 1	158.4	158.1	127.9	127.9	122.9	122.6	0.3
SINGLE 1088	: 60171 LYON CO7	- 60903 LYON CO8	CKT: 1	159.1	158.8	127.9	127.9	122.6	122.3	0.3
SINGLE 2078	: 63195 BIGSTONY	- 63214 BIGSTON7	CKT: 1	158.4	158.1	127.9	127.9	122.6	122.3	0.3
SINGLE 2079	: 63195 BIGSTONY	- 63314 BIGSTON4	CKT: 1	158.4	158.1	127.9	127.9	122.6	122.3	0.3
SINGLE 2920	: 60151 MNTCELO3	- 60005 MNTCE31G	CKT: 1	157.7	157.3	127.9	127.9	122.1	121.8	0.3
SINGLE 20	: 34006 LAKEFLD3	- 60286 NOBLES 3	CKT: C	157.8	157.5	127.9	127.9	121.9	121.7	0.2
SINGLE 2937	: 60186 AS KING3	- 60006 KING 31G	CKT: 1	157.3	156.9	127.9	127.9	121.7	121.4	0.3
SINGLE 1371	: 60362 CHANRMB7	- 60369 FENTON 7	CKT: C	157.1	156.8	127.9	127.9	121.3	121.1	0.2
SINGLE 2900	: 60105 PR ISLD3	- 60003 PR IS31G	CKT: 1	156.6	156.3	127.9	127.9	121.1	120.8	0.3
SINGLE 2901	: 60105 PR ISLD3	- 60004 PR IS32G	CKT: 1	156.5	156.2	127.9	127.9	121.0	120.7	0.3
SINGLE 2097	: 63213 MARIETT7	- 63214 BIGSTON7	CKT: 1	156.4	156.1	127.9	127.9	120.8	120.5	0.3
SINGLE 2096	: 63212 BURR 7	- 63213 MARIETT7	CKT: 1	156.3	156.0	127.9	127.9	120.7	120.4	0.3
SINGLE 1003	: 60126 SPLT RK3	- 60286 NOBLES 3	CKT: C	155.9	155.5	127.9	127.9	120.4	120.0	0.4
SINGLE 1009	: 60131 SPLTRTB3	- 66564 SIOUXCY3	CKT: 1	155.2	154.8	127.9	127.9	119.9	119.6	0.3
SINGLE 1002	: 60126 SPLT RK3	- 60131 SPLTRTB3	CKT: 1	155.2	154.9	127.9	127.9	119.9	119.6	0.3
SINGLE 2094	: 63211 CANBY 7	- 63212 BURR 7	CKT: 1	155.2	154.8	127.9	127.9	119.8	119.5	0.3
SINGLE 1	: 6001 YANKEE 7	- 60279 BUFFRID7	CKT: 1	155.0	154.6	127.9	127.9	119.7	119.4	0.3
SINGLE 996	: 60123 PIPESTN7	- 60362 CHANRMB7	CKT: 1	155.1	154.7	127.9	127.9	119.7	119.4	0.3
SINGLE 32	: 34009 WINBAGO5	- 61932 RUTLAND5	CKT: 1	155.0	154.6	127.9	127.9	119.7	119.4	0.3
SINGLE 2961	: 60240 RIVRSID7	- 60008 RIVRS78G	CKT: 1	155.0	154.6	127.9	127.9	119.7	119.3	0.4
SINGLE 2451	: 66504 BROOKNG7	- 66538 WHITE 7	CKT: 1	154.9	154.5	127.9	127.9	119.6	119.2	0.4
SINGLE 962	: 60110 WILMART7	- 60111 BODE 7	CKT: 1	154.6	154.2	127.9	127.9	119.4	119.1	0.3
SINGLE 2373	: 66435 FARGO 4	- 66553 MOORHED4	CKT: 1	154.6	154.2	127.9	127.9	119.4	119.1	0.3
SINGLE 969	: 60111 BODE 7	- 60112 FTRIDLY7	CKT: 1	154.5	154.1	127.9	127.9	119.4	119.0	0.4
SINGLE 28	: 34008 FOX LK 5	- 61932 RUTLAND5	CKT: 1	154.6	154.2	127.9	127.9	119.4	119.1	0.3
SINGLE 1375	: 60374 FIBROMN7	- 62001 BENSON 7	CKT: 1	154.5	154.2	127.9	127.9	119.4	119.1	0.3
SINGLE 2942	: 60200 BLK DG27	- 60014 BLK D74G	CKT: 1	154.5	154.2	127.9	127.9	119.3	119.0	0.3
SINGLE 2951	: 60214 HIBRDGE7	- 60010 HIBRD76G	CKT: 1	154.5	154.1	127.9	127.9	119.3	118.9	0.4
SINGLE 1034	: 60142 BENTON 3	- 60160 SHERCO 3	CKT: 1	154.5	154.1	127.9	127.9	119.3	119.0	0.3
SINGLE 2960	: 60240 RIVRSID7	- 60007 RIVRS76G	CKT: 1	154.4	154.0	127.9	127.9	119.2	118.9	0.3
SINGLE 2590	: 66791 CENTER 3	- 67316 COYOTE 3	CKT: 1	154.4	154.0	127.9	127.9	119.2	118.8	0.4
SINGLE 2193	: 63327 HANKSON4	- 63363 FORMAN 4	CKT: 1	154.3	153.9	127.9	127.9	119.1	118.7	0.4
SINGLE 992	: 60122 LAWRENC7	- 60834 LAWRENC8	CKT: 1	154.2	153.8	127.9	127.9	119.0	118.7	0.3
SINGLE 2940	: 60190 BLK DOG7	- 60012 BLK D76G	CKT: 1	154.1	153.8	127.9	127.9	119.0	118.7	0.3
SINGLE 2904	: 60108 WILMART3	- 8001 G261-ST	CKT: 1	154.1	153.7	127.9	127.9	119.0	118.7	0.3
SINGLE 2200	: 63362 OAKES 4	- 67326 ELLENDL4	CKT: 1	154.1	153.7	127.9	127.9	118.9	118.6	0.3
BASE CASE	: ** BASE CASE	**		153.1	152.7	127.9	127.9	118.1	117.8	0.3
SINGLE 1372	: 60371 ERIE RD7	- 60372 SARATOG7	CKT: 1	152.0	151.6	127.9	127.9	117.4	117.1	0.3
SINGLE 2508	: 66550 GRANITF4	- 66554 MORRIS 4	CKT: 1	152.0	151.6	127.9	127.9	117.3	117.0	0.3
SINGLE 2024	: 62980 MCLEOD 4	- 62981 MCLEOD 7	CKT: 1	152.1	151.7	127.9	127.9	117.3	117.0	0.3
SINGLE 2706	: 34006 LAKEFLD3	- 3400 G164	CKT: 1	152.0	151.7	127.9	127.9	117.3	117.0	0.3
SINGLE 2103	: 63219 GRANTCO7	- 66555 MORRIS 7	CKT: 1	152.0	151.7	127.9	127.9	117.3	117.0	0.3
SINGLE 2992	: 60304 EAU CL 3	- 39244 ARP 345	CKT: 1	152.1	.....	127.9	.....	117.3	.....	*NEW*
SINGLE 1001	: 60126 SPLT RK3	- 60130 SPLTRTA3	CKT: 1	151.7	151.3	127.9	127.9	117.2	116.8	0.4
SINGLE 1008	: 60130 SPLTRTA3	- 66537 WHITE 3	CKT: 1	151.8	151.4	127.9	127.9	117.2	116.9	0.3
SINGLE 1068	: 60156 PYNSVIL7	- 60162 WAKEFLD7	CKT: C	151.9	151.5	127.9	127.9	117.1	116.8	0.3
SINGLE 1116	: 60186 AS KING3	- 60304 EAU CL 3	CKT: 1	151.8	151.5	127.9	127.9	117.1	116.8	0.3
SINGLE 3161	: 60835 CHNDLRT8	- 6410 G272	CKT: 1	151.8	151.4	127.9	127.9	117.1	116.8	0.3
SINGLE 1042	: 60145 FRANKLN7	- 61954 REDFLST7	CKT: P	151.7	151.4	127.9	127.9	117.0	116.7	0.3
SINGLE 1053	: 60148 MINVALY7	- 61954 REDFLST7	CKT: P	151.6	151.2	127.9	127.9	116.9	116.6	0.3
SINGLE 2191	: 63325 BROWNSV4	- 63327 HANKSON4	CKT: 1	151.2	150.8	127.9	127.9	116.8	116.5	0.3
SINGLE 2297	: 66298 GRANITF8	- 66551 GRANITF7	CKT: 1	151.3	151.0	127.9	127.9	116.8	116.5	0.3
SINGLE 2189	: 63314 BIGSTON4	- 63325 BROWNSV4	CKT: 1	151.0	150.7	127.9	127.9	116.7	116.3	0.4
SINGLE 1511	: 60859 ROCKTAP8	- 60860 PIPESTN8	CKT: 1	151.2	150.8	127.9	127.9	116.5	116.2	0.3
SINGLE 941	: 60015 ANSON CG	- 61475 ANS TR2Y	CKT: 2	150.6	150.2	127.9	127.9	116.1	115.8	0.3
SINGLE 940	: 60015 ANSON CG	- 60129 SPLT RK7	CKT: 1	150.6	150.2	127.9	127.9	116.1	115.8	0.3
SINGLE 3164	: 60852 ROCKRIV8	- 62710 CHANDLR8	CKT: 1	150.6	150.3	127.9	127.9	116.1	115.8	0.3
SINGLE 3168	: 60855 TRACYSW8	- 62741 WLNTGTP8	CKT: 1	150.7	150.3	127.9	127.9	116.1	115.8	0.3

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SINGLE 1054 : 60148 MINVALY7 - 66551 GRANITF7 CKT: 1   150.4   150.0   127.9   127.9   116.0   115.7     0.3
SINGLE 1509 : 60852 ROCKRIV8 - 60859 ROCKTAP8 CKT: 1   150.2   149.9   127.9   127.9   115.8   115.5     0.3
SINGLE 3167 : 60855 TRACYSW8 - 62713 LKSRHTP8 CKT: 1   149.8   149.5   127.9   127.9   115.4   115.1     0.3
SINGLE 3162 : 60835 CHNDLRT8 - 62710 CHANDLR8 CKT: 1   149.7   149.3   127.9   127.9   115.3   115.1     0.2
SINGLE 2703 :  6001 YANKEE 7 -  6003 G176     CKT: 1   149.5   149.2   127.9   127.9   115.3   115.0     0.3
SINGLE 3169 : 60856 TEPEOTA8 - 62713 LKSRHTP8 CKT: 1   149.5   149.2   127.9   127.9   115.2   114.9     0.3
SINGLE 1120 : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C   149.2   148.9   127.9   127.9   115.0   114.7     0.3
SINGLE 2053 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1   149.0   148.6   127.9   127.9   115.0   114.7     0.3
SINGLE 1121 : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1   149.2   148.9   127.9   127.9   115.0   114.7     0.3
SINGLE 1056 : 60150 MNVLTAP4 - 66550 GRANITF4 CKT: 1   148.6   148.2   127.9   127.9   114.9   114.6     0.3
SINGLE 1510 : 60857 SLAYTON8 - 60858 HADLEY 8 CKT: 1   148.4   148.1   127.9   127.9   114.5   114.2     0.3
SINGLE 2976 : 60287 NOBLES 7 -  6430 G287     CKT: 1   148.4   148.1   127.9   127.9   114.4   114.1     0.3
SINGLE 3163 : 60835 CHNDLRT8 - 62715 LKWILSN8 CKT: 1   148.3   148.0   127.9   127.9   114.4   114.1     0.3
SINGLE 1366 : 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C   147.6   147.2   127.9   127.9   113.8   113.5     0.3
SINGLE 1069 : 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C   147.6   147.2   127.9   127.9   113.7   113.5     0.2
SINGLE 2702 :  6001 YANKEE 7 -  6002 YANKGEN  CKT: 1   146.0   145.7   127.9   127.9   112.4   112.1     0.3
SINGLE 2919 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1   143.9   143.6   127.9   127.9   110.7   110.4     0.3
SINGLE 2467 : 66508 S3     7 - 66552 MARS ER7 CKT: 1   143.6   143.2   127.9   127.9   110.7   110.4     0.3
SINGLE 3023 : 60369 FENTON 7 -  6036 G162     CKT: 1   143.7   143.4   127.9   127.9   110.6   110.3     0.3
SINGLE 1086 : 60170 MARSHAL7 - 60371 ERIE RD7 CKT: 1   143.1   142.8   127.9   127.9   110.1   109.8     0.3
SINGLE 984  : 60119 LKYNKTN7 - 60171 LYON CO7 CKT: C   136.9   136.6   127.9   127.9   106.7   106.5     0.2
SINGLE 983  : 60119 LKYNKTN7 - 60171 LYON CO7 CKT: 1   131.9   131.6   127.9   127.9   101.9   101.6     0.3
SINGLE 985  : 60119 LKYNKTN7 - 60279 BUFFRID7 CKT: 1   128.0   127.7   127.9   127.9    98.1    97.8     0.3
SINGLE 3    :  6010 ELLSBRO  - 60119 LKYNKTN7 CKT: 1   127.2   126.9   127.9   127.9    97.4    97.2     0.2
SINGLE 4    :  6010 ELLSBRO  - 60362 CHANRMB7 CKT: 1   127.2   126.9   127.9   127.9    97.4    97.2     0.2
SINGLE 3168 : 60856 TEPEOTA8 - 62714 CURRIE 8 CKT: 1   .....   149.1   .....   127.9   .....   114.9  *ELIM*
SINGLE 3169 : 60857 SLAYTON8 - 62714 CURRIE 8 CKT: 1   .....   148.8   .....   127.9   .....   114.7  *ELIM*
*** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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 26) 60200 BLK DG27 - 60013 BLK D73G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 944  : 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1   128.9   128.9   133.0   133.0    96.9    96.9     0.0
SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   128.9   128.9   133.0   133.0    96.9    96.9     0.0
SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   128.9   .....   133.0   .....    96.9   .....   *NEW*
SINGLE 974  : 60114 ELM CRK3 - 60151 MNTCELO3 CKT: 1   128.9   128.9   133.0   133.0    96.9    96.9     0.0
SINGLE 1069 : 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C   128.9   128.8   133.0   133.0    96.9    96.9     0.0
SINGLE 1128 : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1   128.9   128.9   133.0   133.0    96.9    96.9     0.0
SINGLE 1129 : 60193 BLUE LK7 - 60215 HYLNDLK7 CKT: 1   128.9   128.9   133.0   133.0    96.9    96.9     0.0
SINGLE 1142 : 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1   128.9   128.9   133.0   133.0    96.9    96.9     0.0
SINGLE 1176 : 60208 EDINA  7 - 60263 EDEN PR7 CKT: 1   128.9   128.9   133.0   133.0    96.9    96.9     0.0
SINGLE 1180 : 60209 ELLOTPK7 - 60246 SO TOWN7 CKT: 1   128.9   128.9   133.0   133.0    96.9    96.9     0.0
SINGLE 1197 : 60217 INVRHLS3 - 60218 INVRHLS7 CKT: 1   128.8   128.7   133.0   133.0    96.9    96.8     0.1
SINGLE 1202 : 60218 INVRHLS7 - 61478 INV TR1Y CKT: 1   128.9   128.7   133.0   133.0    96.9    96.8     0.1
SINGLE 1224 : 60234 PARKERS7 - 60259 BASCRK 7 CKT: 1   128.9   128.9   133.0   133.0    96.9    96.9     0.0
SINGLE 1271 : 60258 WILSON 7 - 60260 BLOOMGT7 CKT: 1   128.9   128.9   133.0   133.0    96.9    96.9     0.0
SINGLE 1273 : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 1   128.9   128.9   133.0   133.0    96.9    96.9     0.0
SINGLE 1274 : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 2   128.9   128.9   133.0   133.0    96.9    96.9     0.0
SINGLE 1366 : 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C   128.9   128.9   133.0   133.0    96.9    96.9     0.0
SINGLE 2053 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1   128.9   128.9   133.0   133.0    96.9    96.9     0.0
SINGLE 2900 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1   128.9   128.7   133.0   133.0    96.9    96.8     0.1
SINGLE 2901 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1   128.9   128.6   133.0   133.0    96.9    96.7     0.2
SINGLE 2920 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1   128.9   128.9   133.0   133.0    96.9    96.9     0.0
SINGLE 2925 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1   128.9   128.9   133.0   133.0    96.9    96.9     0.0
SINGLE 2926 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1   128.9   128.9   133.0   133.0    96.9    96.9     0.0
SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1   128.9   128.9   133.0   133.0    96.9    96.9     0.0
SINGLE 2939 : 60190 BLK DOG7 - 60011 BLK D75G CKT: 1   128.9   128.9   133.0   133.0    96.9    96.9     0.0
SINGLE 2940 : 60190 BLK DOG7 - 60012 BLK D76G CKT: 1   128.9   128.9   133.0   133.0    96.9    96.9     0.0
SINGLE 2942 : 60200 BLK DG27 - 60014 BLK D74G CKT: 1   128.9   128.9   133.0   133.0    96.9    96.9     0.0
SINGLE 2950 : 60214 HIBRDGE7 - 60009 HIBRD75G CKT: 1   128.9   128.9   133.0   133.0    96.9    96.9     0.0
SINGLE 2951 : 60214 HIBRDGE7 - 60010 HIBRD76G CKT: 1   128.9   128.9   133.0   133.0    96.9    96.9     0.0
SINGLE 2960 : 60240 RIVRSID7 - 60007 RIVRS76G CKT: 1   128.8   128.6   133.0   133.0    96.9    96.7     0.2
SINGLE 2961 : 60240 RIVRSID7 - 60008 RIVRS78G CKT: 1   128.9   128.9   133.0   133.0    96.9    96.9     0.0
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SHC-CNC/ECK3:	** MULTIPLE CONTINGENCY **	128.9	128.9	133.0	133.0	96.9	96.9	0.0
:	60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1							
:	60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1							
PKL-DKN/ECK3:	** MULTIPLE CONTINGENCY **	128.9	128.9	133.0	133.0	96.9	96.9	0.0
:	60233 PARKERS3 - 60270 MPLEGV13 CKT: 1							
:	60233 PARKERS3 - 60114 ELM CRK3 CKT: 1							
BLL-EDP/PKL3:	** MULTIPLE CONTINGENCY **	128.9	128.9	133.0	133.0	96.9	96.9	0.0
:	60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1							
:	60192 BLUE LK3 - 60233 PARKERS3 CKT: 1							
SINGLE 2953 :	60215 HYLNDLK7 - 60261 DEANLAK7 CKT: 1	128.8	128.5	133.0	133.0	96.8	96.6	0.2
SINGLE 2937 :	60186 AS KING3 - 60006 KING 31G CKT: 1	128.7	128.4	133.0	133.0	96.8	96.6	0.2
SINGLE 1214 :	60227 MEDLAKE7 - 60259 BASCRK 7 CKT: 1	128.7	128.5	133.0	133.0	96.8	96.6	0.2
SHC-CNC/BUL3:	** MULTIPLE CONTINGENCY **	128.6	128.5	133.0	133.0	96.7	96.6	0.1
:	60160 SHERCO 3 - 60202 COON CK3 CKT: 1							
:	60160 SHERCO 3 - 60031 BUNKER 3 CKT: 1							
SINGLE 1171 :	60206 CROWRVR7 - 62925 DICKNSN7 CKT: 1	128.5	128.3	133.0	133.0	96.6	96.5	0.1
SINGLE 948 :	60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1	128.4	128.1	133.0	133.0	96.5	96.4	0.1
CNC-KOL/TER3:	** MULTIPLE CONTINGENCY **	128.3	128.2	133.0	133.0	96.5	96.4	0.1
:	60202 COON CK3 - 60221 KOLMNLK3 CKT: 1							
:	60202 COON CK3 - 60251 TERMINL3 CKT: 1							
SINGLE 1198 :	60217 INVRHLS3 - 60236 REDROCK3 CKT: 1	128.3	128.1	133.0	133.0	96.4	96.3	0.1
SINGLE 2029 :	62985 HUTCHPK8 - 62986 HUTCHMN8 CKT: 1	128.1	127.9	133.0	133.0	96.3	96.2	0.1
CNC-DKN/SHC3:	** MULTIPLE CONTINGENCY **	128.0	127.8	133.0	133.0	96.2	96.1	0.1
:	60202 COON CK3 - 63030 DICKNSN3 CKT: 1							
:	60202 COON CK3 - 60272 MPLEGV23 CKT: 1							
SINGLE 2192 :	63327 HANKSON4 - 63329 WAHPETN4 CKT: 1	127.9	127.6	133.0	133.0	96.2	96.0	0.2
SINGLE 2903 :	60107 W FARIB7 - 62865 AIRTECH7 CKT: 1	127.9	127.8	133.0	133.0	96.2	96.1	0.1
SINGLE 2189 :	63314 BIGSTON4 - 63325 BROWNSV4 CKT: 1	127.8	127.6	133.0	133.0	96.1	95.9	0.2
SINGLE 1058 :	60151 MNTCELO3 - 60153 MNTCELO7 CKT: 1	127.8	127.5	133.0	133.0	96.1	95.9	0.2
SINGLE 2898 :	60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1	127.8	127.7	133.0	133.0	96.1	96.0	0.1
SINGLE 945 :	60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1	127.8	127.7	133.0	133.0	96.1	96.0	0.1
SINGLE 1199 :	60218 INVRHLS7 - 60220 INVRGRV7 CKT: 1	127.8	127.7	133.0	133.0	96.1	96.0	0.1
SINGLE 977 :	60115 ELMCRK 7 - 62923 ARBORLK7 CKT: 1	127.7	127.6	133.0	133.0	96.0	95.9	0.1
SINGLE 2191 :	63325 BROWNSV4 - 63327 HANKSON4 CKT: 1	127.7	127.5	133.0	133.0	96.0	95.9	0.1
SINGLE 1126 :	60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1	127.6	127.5	133.0	133.0	96.0	95.8	0.2
SINGLE 2055 :	63051 HENNING4 - 63331 FERGSFL4 CKT: 1	127.7	127.4	133.0	133.0	96.0	95.8	0.2
SINGLE 3024 :	60650 WILMART8 - 62336 JHNSNTP8 CKT: 1	127.6	127.5	133.0	133.0	96.0	95.9	0.1
SINGLE 3340 :	61478 INV TR1Y - 60028 INV 71G CKT: 1	127.7	127.5	133.0	133.0	96.0	95.9	0.1
SINGLE 1034 :	60142 BENTON 3 - 60160 SHERCO 3 CKT: 1	127.5	127.3	133.0	133.0	95.9	95.7	0.2
SINGLE 949 :	60105 PR ISLD3 - 60236 REDROCK3 CKT: 1	127.5	127.3	133.0	133.0	95.9	95.7	0.2
SINGLE 950 :	60105 PR ISLD3 - 60236 REDROCK3 CKT: 2	127.6	127.4	133.0	133.0	95.9	95.8	0.1
SINGLE 1001 :	60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1	127.6	127.3	133.0	133.0	95.9	95.7	0.2
SINGLE 1293 :	60287 NOBLES 7 - 60369 FENTON 7 CKT: C	127.6	127.4	133.0	133.0	95.9	95.8	0.1
SINGLE 1008 :	60130 SPLTRTA3 - 66537 WHITE 3 CKT: 1	127.6	127.4	133.0	133.0	95.9	95.8	0.1
SINGLE 2194 :	63329 WAHPETN4 - 63331 FERGSFL4 CKT: 1	127.5	127.3	133.0	133.0	95.9	95.7	0.2
SINGLE 1995 :	62921 CEDARIL7 - 62923 ARBORLK7 CKT: 1	127.6	127.4	133.0	133.0	95.9	95.8	0.1
SINGLE 3342 :	61479 INV TR2Y - 60030 INV 73G CKT: 2	127.4	127.2	133.0	133.0	95.8	95.7	0.1
SINGLE 2054 :	63051 HENNING4 - 63052 INMAN 4 CKT: 1	127.5	127.3	133.0	133.0	95.8	95.7	0.1
SINGLE 1221 :	60233 PARKERS3 - 60270 MPLEGV13 CKT: 1	127.4	127.3	133.0	133.0	95.8	95.7	0.1
SINGLE 1203 :	60218 INVRHLS7 - 61479 INV TR2Y CKT: 2	127.4	127.2	133.0	133.0	95.8	95.7	0.1
SINGLE 1278 :	60270 MPLEGV13 - 63030 DICKNSN3 CKT: 1	127.4	127.3	133.0	133.0	95.8	95.7	0.1
SINGLE 3153 :	60826 TRAVRSE8 - 62350 TRAVERS8 CKT: 1	127.5	127.3	133.0	133.0	95.8	95.7	0.1
SINGLE 1096 :	60180 AIRPRT 7 - 60239 ROGRSLK7 CKT: C	127.4	127.2	133.0	133.0	95.8	95.7	0.1
SINGLE 2956 :	60224 LONG LK7 - 60230 OAKDALE7 CKT: 1	127.3	.....	133.0	.....	95.7	.....	*NEW*
SINGLE 1158 :	60202 COON CK3 - 63030 DICKNSN3 CKT: 1	127.3	.....	133.0	.....	95.7	.....	*NEW*
SINGLE 1059 :	60151 MNTCELO3 - 60160 SHERCO 3 CKT: 1	127.3	.....	133.0	.....	95.7	.....	*NEW*
SINGLE 1117 :	60187 AS KING7 - 60231 OAKPARK7 CKT: 1	127.3	127.1	133.0	133.0	95.7	95.6	0.1
SINGLE 1993 :	62920 BASS LK7 - 62921 CEDARIL7 CKT: 1	127.3	127.2	133.0	133.0	95.7	95.6	0.1
SINGLE 2955 :	60223 KOCHREF7 - 62229 APPVLTE7 CKT: 1	127.3	127.2	133.0	133.0	95.7	95.6	0.1
SINGLE 3341 :	61478 INV TR1Y - 60029 INV 72G CKT: 1	127.3	127.2	133.0	133.0	95.7	95.6	0.1
BASE CASE :	** BASE CASE **	126.3	126.1	133.0	133.0	94.9	94.8	0.1
SINGLE 3592 :	67101 ANTELOP3 - 67103 ANTEL31G CKT: 1	125.1	125.0	133.0	133.0	94.1	94.0	0.1
SINGLE 3593 :	67101 ANTELOP3 - 67107 ANTEL32G CKT: 1	125.1	125.0	133.0	133.0	94.1	94.0	0.1

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SINGLE 2238 : 66236 WATERT1T - 66529 WATERTN3 CKT: 1   125.2   125.1   133.0   133.0    94.1    94.0     0.1
SINGLE 2239 : 66236 WATERT1T - 66530 WATERTN4 CKT: 1   125.2   125.1   133.0   133.0    94.1    94.0     0.1
SINGLE 3400 : 63041 COAL CR4 - 63000 COAL 41G CKT: 1   125.1   125.0   133.0   133.0    94.0    94.0     0.0
SINGLE 3401 : 63041 COAL CR4 - 63001 COAL 42G CKT: 1   125.1   125.0   133.0   133.0    94.0    94.0     0.0
SINGLE 2962 : 60242 SAVAGE 7 - 62668 EGLCKTP7 CKT: 1   124.7   124.6   133.0   133.0    93.8    93.7     0.1
SINGLE 1148 : 60200 BLK DG27 - 60258 WILSON 7 CKT: 2   124.7   124.6   133.0   133.0    93.8    93.7     0.1
SINGLE 3451 : 63314 BIGSTON4 - 63315 BIGSTN1G CKT: 1   124.5   124.4   133.0   133.0    93.6    93.5     0.1
SINGLE 2943 : 60200 BLK DG27 - 62230 PILOTKB7 CKT: 1   124.0   123.9   133.0   133.0    93.3    93.2     0.1
SINGLE 1175 : 60208 EDINA  7 - 60249 STLSPRK7 CKT: 1   123.9   123.8   133.0   133.0    93.2    93.1     0.1
SINGLE 1121 : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1   123.9   123.9   133.0   133.0    93.2    93.1     0.1
SINGLE 1120 : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C   123.9   123.8   133.0   133.0    93.2    93.1     0.1
SINGLE 1122 : 60190 BLK DOG7 - 60242 SAVAGE 7 CKT: 1   123.7   123.7   133.0   133.0    93.0    93.0     0.0
SINGLE 1124 : 60190 BLK DOG7 - 60258 WILSON 7 CKT: 3   121.8   121.7   133.0   133.0    91.6    91.5     0.1
SINGLE 1123 : 60190 BLK DOG7 - 60258 WILSON 7 CKT: 1   121.8   121.7   133.0   133.0    91.6    91.5     0.1
SINGLE 1177 : 60208 EDINA  7 - 60280 NINE MI7 CKT: 1   121.4   121.4   133.0   133.0    91.3    91.2     0.1
SINGLE 2938 : 60188 RIVERWD7 - 62225 BURNVIL7 CKT: 1   121.5   121.4   133.0   133.0    91.3    91.3     0.0
SINGLE 1119 : 60188 RIVERWD7 - 60200 BLK DG27 CKT: 1   121.4   121.3   133.0   133.0    91.2    91.2     0.0
SINGLE 1272 : 60258 WILSON 7 - 60280 NINE MI7 CKT: 1   120.2   120.1   133.0   133.0    90.4    90.3     0.1
SINGLE 2447 : 66503 BLAIR  4 - 66550 GRANITF4 CKT: 1   .....   127.2   .....   133.0   .....    95.7  *ELIM*
BLL-PRI/IVH3: ** MULTIPLE CONTINGENCY **               .....   128.9   .....   133.0   .....    96.9  *ELIM*
            : 60192 BLUE LK3 - 60105 PR ISLD3 CKT: 1
            : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
KOL-ASK/CHI3: ** MULTIPLE CONTINGENCY **               .....   127.1   .....   133.0   .....    95.6  *ELIM*
            : 60221 KOLMNLK3 - 60186 AS KING3 CKT: 1
            : 60221 KOLMNLK3 - 60199 CHIS CO3 CKT: 1
IVH-BLL/RRK3: ** MULTIPLE CONTINGENCY **               .....   128.9   .....   133.0   .....    96.9  *ELIM*
            : 60217 INVRHLS3 - 60192 BLUE LK3 CKT: 1
            : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1
*** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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27) 60200 BLK DG27 - 60014 BLK D74G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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BASE CASE   : **       BASE CASE      **              201.0   201.0   192.0   192.0   104.7   104.7     0.0
SINGLE 1167 : 60204 COTTAGE7 - 60238 REDROCK7 CKT: 1   199.9   199.7   192.0   192.0   104.1   104.0     0.1
SINGLE 2501 : 66529 WATERTN3 - 66537 WHITE  3 CKT: 1   200.0   199.7   192.0   192.0   104.1   104.0     0.1
SINGLE 2702 :  6001 YANKEE 7 -  6002 YANKGEN  CKT: 1   199.9   199.7   192.0   192.0   104.1   104.0     0.1
SINGLE 2967 : 60257 BLUFFCK7 - 60367 MNRIVER7 CKT: 1   199.8   199.6   192.0   192.0   104.1   103.9     0.2
SINGLE 3577 : 66752 DRAYTON4 - 67557 LETELER4 CKT: 1   199.9   199.6   192.0   192.0   104.1   104.0     0.1
SINGLE 3599 : 67131 LARAMIE3 - 67118 LARAM31G CKT: 1   199.8   199.6   192.0   192.0   104.1   103.9     0.2
SCO-MRR/EXC7: ** MULTIPLE CONTINGENCY **               199.9   199.7   192.0   192.0   104.1   104.0     0.1
            : 60244 SCOTTCO7 - 60367 MNRIVER7 CKT: 1
            : 60890 SCOTTCO8 - 60889 CHASKAS8 CKT: 1
050    2    : ** MULTIPLE CONTINGENCY **               199.9   199.7   192.0   192.0   104.1   104.0     0.1
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
SINGLE 3395 : 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1   199.7   199.5   192.0   192.0   104.0   103.9     0.1
SINGLE 1529 : 60890 SCOTTCO8 - 60896 SHAKOPE8 CKT: 1   199.8   199.5   192.0   192.0   104.0   103.9     0.1
SINGLE 1237 : 60238 REDROCK7 - 60336 NSSJCT 7 CKT: 1   199.7   199.5   192.0   192.0   104.0   103.9     0.1
SINGLE 3625 : 67316 COYOTE 3 - 67315 COYOTE1G CKT: 1   199.8   199.6   192.0   192.0   104.0   103.9     0.1
SINGLE 1362 : 60336 NSSJCT 7 - 60337 NSSTAP 7 CKT: 1   199.7   199.5   192.0   192.0   104.0   103.9     0.1
050    1    : ** MULTIPLE CONTINGENCY **               199.7   199.5   192.0   192.0   104.0   103.9     0.1
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
            : 39901 COC DPC  - 38342 COC 69   CKT: 1
            : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
SINGLE 1363 : 60337 NSSTAP 7 - 60338 NSSTL  7 CKT: 1   199.7   199.5   192.0   192.0   104.0   103.9     0.1
SINGLE 2238 : 66236 WATERT1T - 66529 WATERTN3 CKT: 1   199.4   199.2   192.0   192.0   103.9   103.8     0.1
SINGLE 2239 : 66236 WATERT1T - 66530 WATERTN4 CKT: 1   199.4   199.2   192.0   192.0   103.9   103.8     0.1
WATERT1T    : ** MULTIPLE CONTINGENCY **               199.4   199.2   192.0   192.0   103.9   103.8     0.1
            : 66236 WATERT1T - 66237 WATERT19 CKT: 1
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             : 66236 WATERT1T - 66529 WATERTN3 CKT: 1
             : 66236 WATERT1T - 66530 WATERTN4 CKT: 1
SINGLE 3592 : 67101 ANTELOP3 - 67103 ANTEL31G CKT: 1   199.3   199.1   192.0   192.0   103.8   103.7     0.1
SINGLE 3593 : 67101 ANTELOP3 - 67107 ANTEL32G CKT: 1   199.3   199.1   192.0   192.0   103.8   103.7     0.1
SINGLE 3401 : 63041 COAL CR4 - 63001 COAL 42G CKT: 1   199.2   199.0   192.0   192.0   103.7   103.6     0.1
SINGLE 3400 : 63041 COAL CR4 - 63000 COAL 41G CKT: 1   199.2   199.0   192.0   192.0   103.7   103.6     0.1
795          : ** MULTIPLE CONTINGENCY **              198.8   198.6   192.0   192.0   103.5   103.4     0.1
             : 66550 GRANITF4 - 60150 MNVLTAP4 CKT: 1
             : 60148 MINVALY7 - 60149 MINVALT4 CKT: C
             : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1
             : 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1
             : 63054 PANTHER4 - 60742 PANTHER8 CKT: 1
MEL-ALD/CDR7: ** MULTIPLE CONTINGENCY **               198.5   198.3   192.0   192.0   103.4   103.3     0.1
             : 60227 MEDLAKE7 - 60182 ALDRICH7 CKT: 1
             : 60234 PARKERS7 - 60346 CEDARLK7 CKT: P
SINGLE 2962 : 60242 SAVAGE 7 - 62668 EGLCKTP7 CKT: 1   198.4   198.2   192.0   192.0   103.3   103.2     0.1
SINGLE 1148 : 60200 BLK DG27 - 60258 WILSON 7 CKT: 2   198.4   198.1   192.0   192.0   103.3   103.2     0.1
SLP-MEL/CDR7: ** MULTIPLE CONTINGENCY **               198.0   197.8   192.0   192.0   103.1   103.0     0.1
             : 60249 STLSPRK7 - 60182 ALDRICH7 CKT: P
             : 60249 STLSPRK7 - 60346 CEDARLK7 CKT: P
SINGLE 3451 : 63314 BIGSTON4 - 63315 BIGSTN1G CKT: 1   198.0   197.8   192.0   192.0   103.1   103.0     0.1
SLP-MEL/PKL7: ** MULTIPLE CONTINGENCY **               197.9   197.6   192.0   192.0   103.1   102.9     0.2
             : 60249 STLSPRK7 - 60182 ALDRICH7 CKT: P
             : 60249 STLSPRK7 - 60346 CEDARLK7 CKT: P
             : 60346 CEDARLK7 - 60234 PARKERS7 CKT: P
MEL-ALD/SLP7: ** MULTIPLE CONTINGENCY **               197.8   197.6   192.0   192.0   103.0   102.9     0.1
             : 60227 MEDLAKE7 - 60182 ALDRICH7 CKT: 1
             : 60234 PARKERS7 - 60346 CEDARLK7 CKT: P
             : 60249 STLSPRK7 - 60346 CEDARLK7 CKT: P
815          : ** MULTIPLE CONTINGENCY **              197.5   197.3   192.0   192.0   102.9   102.8     0.1
             : 62225 BURNVIL7 - 62226 FISCHER7 CKT: 1
             : 62226 FISCHER7 - 60343 WILLPIP7 CKT: 1
             : 60343 WILLPIP7 - 62228 APPVLTW7 CKT: 1
             : 62228 APPVLTW7 - 62227 JOHNCAK7 CKT: 1
SINGLE 2943 : 60200 BLK DG27 - 62230 PILOTKB7 CKT: 1   197.0   196.7   192.0   192.0   102.6   102.5     0.1
810    C1    : ** MULTIPLE CONTINGENCY **              196.8   196.6   192.0   192.0   102.5   102.4     0.1
             : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1
             : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C
SINGLE 1121 : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1   196.7   196.6   192.0   192.0   102.5   102.4     0.1
SINGLE 1175 : 60208 EDINA  7 - 60249 STLSPRK7 CKT: 1   196.7   196.5   192.0   192.0   102.5   102.3     0.2
SINGLE 1120 : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C   196.7   196.5   192.0   192.0   102.4   102.4     0.0
SINGLE 1122 : 60190 BLK DOG7 - 60242 SAVAGE 7 CKT: 1   196.3   196.1   192.0   192.0   102.3   102.1     0.2
715       2 : ** MULTIPLE CONTINGENCY **               195.8   195.6   192.0   192.0   102.0   101.9     0.1
             : 62666 GLNDALE7 - 60243 SCOTTAP7 CKT: 1
             : 60242 SAVAGE 7 - 62668 EGLCKTP7 CKT: 1
             : 62666 GLNDALE7 - 62672 GLNDALE8 CKT: 1
             : 60243 SCOTTAP7 - 60244 SCOTTCO7 CKT: 1
             : 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1
             : 60194 CARVRCO7 - 60931 CARVRCO8 CKT: 1
             : 60190 BLK DOG7 - 60242 SAVAGE 7 CKT: 1
             : 62668 EGLCKTP7 - 62975 SHAKOPE7 CKT: 1
             : 62975 SHAKOPE7 - 60244 SCOTTCO7 CKT: 1
             : 60244 SCOTTCO7 - 60890 SCOTTCO8 CKT: 2
PKL-CDR/BCR7: ** MULTIPLE CONTINGENCY **               194.7   194.5   192.0   192.0   101.4   101.3     0.1
             : 60234 PARKERS7 - 60346 CEDARLK7 CKT: P
             : 60234 PARKERS7 - 60259 BASCRK 7 CKT: 1
MEL-BCR/CDR7: ** MULTIPLE CONTINGENCY **               194.3   194.1   192.0   192.0   101.2   101.1     0.1
             : 60227 MEDLAKE7 - 60259 BASCRK 7 CKT: 1
             : 60234 PARKERS7 - 60346 CEDARLK7 CKT: P
715       5 : ** MULTIPLE CONTINGENCY **               194.3   194.1   192.0   192.0   101.2   101.1     0.1
             : 60190 BLK DOG7 - 60242 SAVAGE 7 CKT: 1
             : 60242 SAVAGE 7 - 62668 EGLCKTP7 CKT: 1
             : 62668 EGLCKTP7 - 62975 SHAKOPE7 CKT: 1
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              : 62975 SHAKOPE7 - 60244 SCOTTCO7 CKT: 1
              : 60244 SCOTTCO7 - 60890 SCOTTCO8 CKT: 2
  MEL-BCR/PKL7: ** MULTIPLE CONTINGENCY **              193.9   193.6   192.0   192.0   101.0   100.9     0.1
              : 60227 MEDLAKE7 - 60259 BASCRK 7 CKT: 1
              : 60234 PARKERS7 - 60346 CEDARLK7 CKT: P
              : 60249 STLSPRK7 - 60346 CEDARLK7 CKT: P
  715       1 : ** MULTIPLE CONTINGENCY **              194.0   193.8   192.0   192.0   101.0   100.9     0.1
              : 60200 BLK DG27 - 62666 GLNDALE7 CKT: 1
              : 60190 BLK DOG7 - 60242 SAVAGE 7 CKT: 1
              : 62666 GLNDALE7 - 62672 GLNDALE8 CKT: 2
              : 60242 SAVAGE 7 - 62668 EGLCKTP7 CKT: 1
              : 62668 EGLCKTP7 - 62975 SHAKOPE7 CKT: 1
              : 62975 SHAKOPE7 - 60244 SCOTTCO7 CKT: 1
              : 60244 SCOTTCO7 - 60890 SCOTTCO8 CKT: 2
  SINGLE 1123 : 60190 BLK DOG7 - 60258 WILSON 7 CKT: 1   192.0   191.8   192.0   192.0   100.0    99.9     0.1
  SINGLE 1124 : 60190 BLK DOG7 - 60258 WILSON 7 CKT: 3   192.0   191.8   192.0   192.0   100.0    99.9     0.1
  EDA-EDP/NMC7: ** MULTIPLE CONTINGENCY **              191.5   191.2   192.0   192.0    99.7    99.6     0.1
              : 60208 EDINA  7 - 60263 EDEN PR7 CKT: 1
              : 60208 EDINA  7 - 60280 NINE MI7 CKT: 1
  SINGLE 1177 : 60208 EDINA  7 - 60280 NINE MI7 CKT: 1   191.2   191.0   192.0   192.0    99.6    99.5     0.1
  SINGLE 2938 : 60188 RIVERWD7 - 62225 BURNVIL7 CKT: 1   191.3   191.1   192.0   192.0    99.6    99.5     0.1
  SINGLE 1119 : 60188 RIVERWD7 - 60200 BLK DG27 CKT: 1   191.0   190.8   192.0   192.0    99.5    99.4     0.1
  SINGLE 1272 : 60258 WILSON 7 - 60280 NINE MI7 CKT: 1   188.5   188.3   192.0   192.0    98.2    98.1     0.1
  SINGLE 1101 : 60182 ALDRICH7 - 60227 MEDLAKE7 CKT: 1   .....   199.8   .....   192.0   .....   104.1  *ELIM*
  SINGLE 1102 : 60182 ALDRICH7 - 60249 STLSPRK7 CKT: P   .....   199.8   .....   192.0   .....   104.1  *ELIM*
  SINGLE 1266 : 60256 WSTGATE7 - 60332 GLENLK 7 CKT: C   .....   199.9   .....   192.0   .....   104.1  *ELIM*
  SINGLE 2963 : 60244 SCOTTCO7 - 60367 MNRIVER7 CKT: 1   .....   199.8   .....   192.0   .....   104.1  *ELIM*
  SINGLE 3021 : 60369 FENTON 7 -  6036 G162     CKT: 1   .....   199.9   .....   192.0   .....   104.1  *ELIM*
  SINGLE 3540 : 66537 WHITE  3 -  6653 GI0108   CKT: 1   .....   199.8   .....   192.0   .....   104.1  *ELIM*
  RRK-AFT/WDY7: ** MULTIPLE CONTINGENCY **              .....   199.9   .....   192.0   .....   104.1  *ELIM*
              : 60238 REDROCK7 - 60179 AFTON  7 CKT: 1
              : 60238 REDROCK7 - 60344 WOODBUR7 CKT: 1

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  28) 60214 HIBRDGE7 - 60009 HIBRD75G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **              125.7   125.7   133.0   133.0    94.5    94.5     0.0
  022       5 : ** MULTIPLE CONTINGENCY **              122.8   122.7   133.0   133.0    92.3    92.3     0.0
              : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
              : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
              : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
              : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
              : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
              : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
              : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
              : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
  022       1 : ** MULTIPLE CONTINGENCY **              122.3   122.1   133.0   133.0    91.9    91.8     0.1
              : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
              : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
              : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
              : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
              : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
              : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
              : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
              : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
              : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
              : 61491 TERMID2Y - 61188 TERTER29 CKT: 1

==================================================================================================================
  29) 60214 HIBRDGE7 - 60010 HIBRD76G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **              179.5   179.5   192.0   192.0    93.5    93.5     0.0
```

30) 60240 RIVRSID7 - 60008 RIVRS78G CKT: 1		PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
BASE CASE	: ** BASE CASE **	261.8	261.8	275.0	275.0	95.2	95.2	0.0
SINGLE 1158	: 60202 COON CK3 - 63030 DICKNSN3 CKT: 1	260.8	260.7	275.0	275.0	94.8	94.8	0.0
SINGLE 1196	: 60216 INDIANA7 - 60351 CRYSTAL7 CKT: P	260.6	260.5	275.0	275.0	94.8	94.7	0.1
SINGLE 1751	: 62113 NORTHTW8 - 62123 WOODCRT8 CKT: 1	260.8	260.7	275.0	275.0	94.8	94.8	0.0
SINGLE 1999	: 62925 DICKNSN7 - 63030 DICKNSN3 CKT: 1	260.8	260.7	275.0	275.0	94.8	94.8	0.0
SINGLE 1119	: 60188 RIVERWD7 - 60200 BLK DG27 CKT: 1	260.5	260.4	275.0	275.0	94.7	94.7	0.0
SINGLE 1219	: 60232 OSSEO 7 - 60351 CRYSTAL7 CKT: P	260.5	260.4	275.0	275.0	94.7	94.7	0.0
SINGLE 1159	: 60202 COON CK3 - 63031 BUNKER 3 CKT: 1	260.3	260.2	275.0	275.0	94.7	94.6	0.1
SINGLE 1181	: 60210 FIFTHST7 - 60226 MAIN ST7 CKT: 1	260.5	260.4	275.0	275.0	94.7	94.7	0.0
SINGLE 2937	: 60186 AS KING3 - 60006 KING 31G CKT: 1	260.3	260.0	275.0	275.0	94.7	94.5	0.2
SINGLE 2938	: 60188 RIVERWD7 - 62225 BURNVIL7 CKT: 1	260.5	260.4	275.0	275.0	94.7	94.7	0.0
SINGLE 1995	: 62921 CEDARIL7 - 62923 ARBORLK7 CKT: 1	260.2	260.1	275.0	275.0	94.6	94.6	0.0
805	: ** MULTIPLE CONTINGENCY **	260.3	260.2	275.0	275.0	94.6	94.6	0.0
	: 60187 AS KING7 - 60176 BAYTOWN7 CKT: 1							
	: 60222 KOLMNLK7 - 60224 LONG LK7 CKT: 1							
	: 60224 LONG LK7 - 60176 BAYTOWN7 CKT: 1							
SINGLE 977	: 60115 ELMCRK 7 - 62923 ARBORLK7 CKT: 1	260.0	259.9	275.0	275.0	94.5	94.5	0.0
022 12	: ** MULTIPLE CONTINGENCY **	259.5	259.4	275.0	275.0	94.4	94.3	0.1
	: 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1							
	: 60251 TERMINL3 - 61492 TERMID1Y CKT: 1							
	: 61492 TERMID1Y - 60252 TERMINL7 CKT: 1							
	: 61492 TERMID1Y - 61187 TERTER19 CKT: 1							
SINGLE 1766	: 62123 WOODCRT8 - 62132 PRKWOOD8 CKT: 1	259.6	259.5	275.0	275.0	94.4	94.4	0.0
SINGLE 1261	: 60252 TERMINL7 - 61491 TERMID2Y CKT: 1	258.6	258.5	275.0	275.0	94.0	94.0	0.0
SINGLE 1262	: 60252 TERMINL7 - 61492 TERMID1Y CKT: 1	258.6	258.5	275.0	275.0	94.0	94.0	0.0
SINGLE 1257	: 60251 TERMINL3 - 61491 TERMID2Y CKT: 1	258.2	258.1	275.0	275.0	93.9	93.9	0.0
SINGLE 1258	: 60251 TERMINL3 - 61492 TERMID1Y CKT: 1	258.2	258.2	275.0	275.0	93.9	93.9	0.0
RIV TRIPLE	: ** MULTIPLE CONTINGENCY **	258.0	258.0	275.0	275.0	93.8	93.8	0.0
	: 60240 RIVRSID7 - 60226 MAIN ST7 CKT: 1							
	: 60240 RIVRSID7 - 60209 ELLOTPK7 CKT: 1							
	: 60240 RIVRSID7 - 60210 FIFTHST7 CKT: 1							
SINGLE 1105	: 60183 APACHE 7 - 60184 APACHET7 CKT: 1	257.4	257.3	275.0	275.0	93.6	93.6	0.0
X0802-0803P1	: ** MULTIPLE CONTINGENCY **	257.1	257.0	275.0	275.0	93.5	93.5	0.0
	: 60252 TERMINL7 - 60241 ROSE PL7 CKT: 1							
	: 60252 TERMINL7 - 60184 APACHET7 CKT: 1							
	: 60184 APACHET7 - 60183 APACHE 7 CKT: 1							
X0802-0803P2	: ** MULTIPLE CONTINGENCY **	257.1	257.0	275.0	275.0	93.5	93.5	0.0
	: 60252 TERMINL7 - 60241 ROSE PL7 CKT: 1							
	: 60252 TERMINL7 - 60184 APACHET7 CKT: 1							
	: 60184 APACHET7 - 60185 ARDNHLS7 CKT: 1							
022 5	: ** MULTIPLE CONTINGENCY **	257.0	257.0	275.0	275.0	93.5	93.4	0.1
	: 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1							
	: 60202 COON CK3 - 60251 TERMINL3 CKT: 1							
	: 60251 TERMINL3 - 61492 TERMID1Y CKT: 1							
	: 61492 TERMID1Y - 60252 TERMINL7 CKT: 1							
	: 61492 TERMID1Y - 61187 TERTER19 CKT: 1							
	: 60251 TERMINL3 - 61491 TERMID2Y CKT: 1							
	: 61491 TERMID2Y - 60252 TERMINL7 CKT: 1							
	: 61491 TERMID2Y - 61188 TERTER29 CKT: 1							
SINGLE 1161	: 60203 COON CK7 - 60253 TWIN LK7 CKT: 1	257.1	257.0	275.0	275.0	93.5	93.5	0.0
TER-RPL/AHI7	: ** MULTIPLE CONTINGENCY **	257.1	257.1	275.0	275.0	93.5	93.5	0.0
	: 60252 TERMINL7 - 60241 ROSE PL7 CKT: 1							
	: 60252 TERMINL7 - 60184 APACHET7 CKT: 1							
	: 60184 APACHET7 - 60183 APACHE 7 CKT: 1							
	: 60184 APACHET7 - 60185 ARDNHLS7 CKT: 1							
SINGLE 1163	: 60203 COON CK7 - 60268 BRKLNPK7 CKT: 1	256.0	255.9	275.0	275.0	93.1	93.0	0.1
TWL-CNC/RIV7	: ** MULTIPLE CONTINGENCY **	255.1	255.0	275.0	275.0	92.8	92.7	0.1
	: 60253 TWIN LK7 - 60203 COON CK7 CKT: 1							
	: 60253 TWIN LK7 - 60240 RIVRSID7 CKT: 1							
ALD-IDA/MEL7	: ** MULTIPLE CONTINGENCY **	254.4	254.3	275.0	275.0	92.5	92.5	0.0

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              : 60181 ALDRICH7 - 60216 INDIANA7 CKT: 1
              : 60182 ALDRICH7 - 60227 MEDLAKE7 CKT: 1
  SINGLE 1099 : 60181 ALDRICH7 - 60216 INDIANA7 CKT: 1   254.1   254.0   275.0   275.0    92.4    92.4     0.0
  SINGLE 1244 : 60240 RIVRSID7 - 60268 BRKLNPK7 CKT: 1   254.2   254.1   275.0   275.0    92.4    92.4     0.0
  SINGLE 1180 : 60209 ELLOTPK7 - 60246 SO TOWN7 CKT: 1   254.2   254.1   275.0   275.0    92.4    92.4     0.0
  SINGLE 1243 : 60240 RIVRSID7 - 60253 TWIN LK7 CKT: 1   253.4   253.4   275.0   275.0    92.2    92.1     0.1
  SINGLE 1106 : 60183 APACHE 7 - 60240 RIVRSID7 CKT: 1   252.9   252.8   275.0   275.0    92.0    91.9     0.1
  SINGLE 1216 : 60229 MOORELK7 - 60240 RIVRSID7 CKT: 1   252.7   252.6   275.0   275.0    91.9    91.9     0.0
  MOL-RIV/CNC7: ** MULTIPLE CONTINGENCY **               249.5   249.5   275.0   275.0    90.7    90.7     0.0
              : 60229 MOORELK7 - 60203 COON CK7 CKT: 1
              : 60229 MOORELK7 - 60240 RIVRSID7 CKT: 1
  022      10 : ** MULTIPLE CONTINGENCY **               .....   260.7   .....   275.0   .....    94.8  *ELIM*
              : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
              : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
              : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
              : 61491 TERMID2Y - 61188 TERTER29 CKT: 1

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  31) 60264 LOON LK7 - 61976 LOON LK8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   125.7   124.9    75.0    75.0   167.6   166.5     1.1
  SINGLE 952  : 60107 W FARIB7 - 60265 LOON TP7 CKT: C   115.2   114.5    75.0    75.0   153.6   152.6     1.0
  SINGLE 955  : 60107 W FARIB7 - 61952 S FARIB5 CKT: 1   105.4   104.7    75.0    75.0   140.5   139.6     0.9
  SINGLE 1699 : 61952 S FARIB5 - 61964 OWATNNA5 CKT: 1   105.4   104.7    75.0    75.0   140.5   139.6     0.9
  SINGLE 1697 : 61948 BYRON  5 - 61950 BYRON  3 CKT: 1    97.3    96.9    75.0    75.0   129.8   129.3     0.5
  SINGLE 964  : 60110 WILMART7 - 60194 CARVRCO7 CKT: 1    89.8    89.4    75.0    75.0   119.8   119.2     0.6
  SINGLE 1700 : 61964 OWATNNA5 - 61968 OWATANA2 CKT: 2    89.4    89.0    75.0    75.0   119.2   118.7     0.5
  SINGLE 1701 : 61964 OWATNNA5 - 61972 OWATANA1 CKT: 1    89.4    89.0    75.0    75.0   119.2   118.7     0.5
  SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1    89.3    88.8    75.0    75.0   119.0   118.4     0.6
  SINGLE 2838 : 34300 MONTGMY8 - 34310 MONTGG19 CKT: 1    88.8    88.4    75.0    75.0   118.4   117.9     0.5
  705       1 : ** MULTIPLE CONTINGENCY **                88.7    88.3    75.0    75.0   118.3   117.8     0.5
              : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1
              : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
              : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 1
  BLL-EDP/PKL3: ** MULTIPLE CONTINGENCY **                 88.6    88.2    75.0    75.0   118.2   117.6     0.6
              : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
              : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1
  SINGLE 471  : 34298 MEDFRDJ8 - 61968 OWATANA2 CKT: 1    88.2    87.8    75.0    75.0   117.6   117.1     0.5
  SINGLE 33   : 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1    88.1    87.6    75.0    75.0   117.4   116.8     0.6
  SINGLE 3365 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1    88.1    87.7    75.0    75.0   117.4   117.0     0.4
  BLL-PRI/IVH3: ** MULTIPLE CONTINGENCY **                 87.6    87.1    75.0    75.0   116.8   116.2     0.6
              : 60192 BLUE LK3 - 60105 PR ISLD3 CKT: 1
              : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
  SINGLE 1126 : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1    87.2    86.8    75.0    75.0   116.3   115.7     0.6
  SINGLE 3153 : 60826 TRAVRSE8 - 62350 TRAVERS8 CKT: 1    87.2    86.8    75.0    75.0   116.3   115.7     0.6
  SINGLE 2717 : 34014 ADAMS  5 - 69547 ROCHSTR5 CKT: 1    87.2    86.8    75.0    75.0   116.3   115.7     0.6
  CNC-KOL/TER3: ** MULTIPLE CONTINGENCY **                 87.1    86.7    75.0    75.0   116.2   115.6     0.6
              : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
              : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
  SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1    87.2    86.7    75.0    75.0   116.2   115.7     0.5
  SINGLE 470  : 34298 MEDFRDJ8 - 34299 WASECAJ8 CKT: 1    87.1    86.7    75.0    75.0   116.1   115.6     0.5
  SINGLE 3410 : 63070 PL VLLY5 - 63032 PL VLLY3 CKT: 1    87.1    86.6    75.0    75.0   116.1   115.5     0.6
  ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                 87.1    86.7    75.0    75.0   116.1   115.6     0.5
              : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
  022       3 : ** MULTIPLE CONTINGENCY **                 87.0    86.6    75.0    75.0   116.1   115.5     0.6
              : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
              : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
              : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
              : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
              : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
              : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
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SINGLE 962  : 60110 WILMART7 - 60111 BODE   7 CKT: 1    87.0    86.6    75.0    75.0   116.1   115.5     0.6
SINGLE 3408 : 63070 PL VLLY5 - 63007 PVS  52G CKT: 1    87.0    86.6    75.0    75.0   116.0   115.5     0.5
SINGLE 3024 : 60650 WILMART8 - 62336 JHNSNTP8 CKT: 1    87.0    86.6    75.0    75.0   116.0   115.5     0.5
SINGLE 969  : 60111 BODE   7 - 60112 FTRIDLY7 CKT: 1    87.0    86.6    75.0    75.0   116.0   115.4     0.6
SINGLE 1129 : 60193 BLUE LK7 - 60215 HYLNDLK7 CKT: 1    87.0    86.6    75.0    75.0   116.0   115.4     0.6
SINGLE 3395 : 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1    86.9    86.5    75.0    75.0   115.9   115.3     0.6
SINGLE 46   : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1    86.8    86.4    75.0    75.0   115.8   115.2     0.6
EDP-WSG/WSG7: ** MULTIPLE CONTINGENCY **                86.8    86.4    75.0    75.0   115.8   115.2     0.6
            : 60263 EDEN PR7 - 60256 WSTGATE7 CKT: 1
            : 60263 EDEN PR7 - 60256 WSTGATE7 CKT: 2
SINGLE 3409 : 63070 PL VLLY5 - 63008 PVS  53G CKT: 1    86.9    86.5    75.0    75.0   115.8   115.3     0.5
050    2    : ** MULTIPLE CONTINGENCY **                86.9    86.5    75.0    75.0   115.8   115.3     0.5
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
SINGLE 42   : 34014 ADAMS  5 - 34015 LIME CK5 CKT: 1    86.8   .....    75.0   .....   115.8   .....   *NEW*
715       2 : ** MULTIPLE CONTINGENCY **                86.8    86.4    75.0    75.0   115.8   115.2     0.6
            : 62666 GLNDALE7 - 60243 SCOTTAP7 CKT: 1
            : 60242 SAVAGE 7 - 62668 EGLCKTP7 CKT: 1
            : 62666 GLNDALE7 - 62672 GLNDALE8 CKT: 1
            : 60243 SCOTTAP7 - 60244 SCOTTCO7 CKT: 1
            : 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1
            : 60194 CARVRCO7 - 60931 CARVRCO8 CKT: 1
            : 60190 BLK DOG7 - 60242 SAVAGE 7 CKT: 1
            : 62668 EGLCKTP7 - 62975 SHAKOPE7 CKT: 1
            : 62975 SHAKOPE7 - 60244 SCOTTCO7 CKT: 1
            : 60244 SCOTTCO7 - 60890 SCOTTCO8 CKT: 2
BASE CASE   : **       BASE CASE      **                85.8    85.4    75.0    75.0   114.4   113.9     0.5
SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1    84.8   .....    75.0   .....   113.1   .....   *NEW*
SINGLE 1681 : 61161 BYRON  8 - 61948 BYRON  5 CKT: 1    84.8    84.4    75.0    75.0   113.1   112.5     0.6
SINGLE 3006 : 60331 LKFLDXL3 -  6015 G263     CKT: 1    84.8    84.3    75.0    75.0   113.0   112.5     0.5
SINGLE 3023 : 60369 FENTON 7 -  6036 G162     CKT: 1    84.8    84.4    75.0    75.0   113.0   112.5     0.5
SINGLE 472  : 34298 MEDFRDJ8 - 62886 OWATNNA8 CKT: 1    84.8    84.3    75.0    75.0   113.0   112.5     0.5
SINGLE 940  : 60015 ANSON CG - 60129 SPLT RK7 CKT: 1    84.7    84.3    75.0    75.0   113.0   112.4     0.6
SINGLE 941  : 60015 ANSON CG - 61475 ANS TR2Y CKT: 2    84.7    84.3    75.0    75.0   113.0   112.4     0.6
SINGLE 950  : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2    84.8    84.4    75.0    75.0   113.0   112.5     0.5
SINGLE 2976 : 60287 NOBLES 7 -  6430 G287     CKT: 1    84.7    84.3    75.0    75.0   112.9   112.3     0.6
SINGLE 447  : 34279 PRAT T 8 - 34296 STELCTR8 CKT: 1    84.7    84.2    75.0    75.0   112.9   112.3     0.6
SINGLE 3625 : 67316 COYOTE 3 - 67315 COYOTE1G CKT: 1    84.7    84.3    75.0    75.0   112.9   112.3     0.6
825         : ** MULTIPLE CONTINGENCY **                84.7    84.4    75.0    75.0   112.9   112.5     0.4
            : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
            : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
            : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1
SINGLE 3593 : 67101 ANTELOP3 - 67107 ANTEL32G CKT: 1    84.5    84.1    75.0    75.0   112.6   112.1     0.5
SINGLE 20   : 34006 LAKEFLD3 - 60286 NOBLES 3 CKT: C    84.5    84.0    75.0    75.0   112.6   112.0     0.6
SINGLE 3592 : 67101 ANTELOP3 - 67103 ANTEL31G CKT: 1    84.5    84.1    75.0    75.0   112.6   112.1     0.5
SINGLE 3599 : 67131 LARAMIE3 - 67118 LARAM31G CKT: 1    84.4    84.0    75.0    75.0   112.5   112.0     0.5
SINGLE 3111 : 60783 JORDAN 8 - 62684 MERRIAM8 CKT: 1    84.2    83.8    75.0    75.0   112.3   111.8     0.5
SINGLE 3400 : 63041 COAL CR4 - 63000 COAL 41G CKT: 1    84.2    83.8    75.0    75.0   112.3   111.8     0.5
SINGLE 3401 : 63041 COAL CR4 - 63001 COAL 42G CKT: 1    84.2    83.8    75.0    75.0   112.3   111.7     0.6
SINGLE 956  : 60108 WILMART3 - 60110 WILMART7 CKT: 1    84.2    83.8    75.0    75.0   112.3   111.7     0.6
SINGLE 2708 : 34007 LAKEFLD5 -  6006 G262     CKT: 1    84.2    83.8    75.0    75.0   112.3   111.7     0.6
SINGLE 448  : 34279 PRAT T 8 - 61972 OWATANA1 CKT: 1    84.1    83.7    75.0    75.0   112.2   111.6     0.6
SINGLE 957  : 60108 WILMART3 - 60110 WILMART7 CKT: 2    84.1    83.7    75.0    75.0   112.2   111.7     0.5
SINGLE 2706 : 34006 LAKEFLD3 -  3400 G164     CKT: 1    84.1    83.7    75.0    75.0   112.2   111.6     0.6
SINGLE 3451 : 63314 BIGSTON4 - 63315 BIGSTN1G CKT: 1    84.1    83.7    75.0    75.0   112.1   111.6     0.5
SINGLE 1702 : 61968 OWATANA2 - 61972 OWATANA1 CKT: 1    84.0    83.6    75.0    75.0   112.0   111.5     0.5
SINGLE 3009 : 60331 LKFLDXL3 - 63093 LGS  56Y CKT: 1    83.9    83.5    75.0    75.0   111.9   111.4     0.5
SINGLE 3007 : 60331 LKFLDXL3 - 63091 LGS  12Y CKT: 1    83.9    83.5    75.0    75.0   111.9   111.4     0.5
SINGLE 3008 : 60331 LKFLDXL3 - 63092 LGS  34Y CKT: 1    83.9    83.5    75.0    75.0   111.9   111.4     0.5
PRI-BLL/RRK3: ** MULTIPLE CONTINGENCY **                83.4    83.0    75.0    75.0   111.2   110.6     0.6
            : 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1
            : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 1
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  SINGLE 972  : 60113 DOME   7 - 60830 EASTWD18 CKT: P    83.4    83.0    75.0    75.0   111.1   110.6     0.5
  SINGLE 963  : 60110 WILMART7 - 60113 DOME   7 CKT: C    83.3    82.9    75.0    75.0   111.1   110.5     0.6
  SINGLE 2905 : 60110 WILMART7 -  8006 G261-CT1 CKT: 1    81.7    81.3    75.0    75.0   108.9   108.4     0.5
  SINGLE 2906 : 60110 WILMART7 -  8007 G261-CT2 CKT: 1    81.7    81.3    75.0    75.0   108.9   108.4     0.5
  SINGLE 968  : 60110 WILMART7 - 60830 EASTWD18 CKT: P    81.1    80.8    75.0    75.0   108.2   107.7     0.5
  SINGLE 3364 : 61948 BYRON  5 - 61906 MAPLE LF CKT: 1    81.0    80.6    75.0    75.0   107.9   107.4     0.5
  SINGLE 477  : 34301 NEWPRAG8 - 60936 NPRAG2T8 CKT: 1    80.9    80.5    75.0    75.0   107.8   107.3     0.5
  SINGLE 2904 : 60108 WILMART3 -  8001 G261-ST  CKT: 1    80.7    80.3    75.0    75.0   107.7   107.1     0.6
  SINGLE 476  : 34300 MONTGMY8 - 62876 FRLK TP8 CKT: 1    80.8    80.4    75.0    75.0   107.7   107.2     0.5
  SINGLE 1454 : 60783 JORDAN 8 - 60936 NPRAG2T8 CKT: 1    80.8    80.4    75.0    75.0   107.7   107.1     0.6
  PRI-RRK/RRK3: ** MULTIPLE CONTINGENCY **                80.6    80.1    75.0    75.0   107.4   106.9     0.5
              : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 1
              : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
  SINGLE 474  : 34299 WASECAJ8 - 62876 FRLK TP8 CKT: 1    80.0    79.6    75.0    75.0   106.7   106.1     0.6
  SINGLE 21   : 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1    79.9    79.7    75.0    75.0   106.6   106.3     0.3
  SINGLE 473  : 34299 WASECAJ8 - 61160 MERIDAN8 CKT: 1    78.4    78.0    75.0    75.0   104.5   104.1     0.4
  SINGLE 475  : 34300 MONTGMY8 - 34301 NEWPRAG8 CKT: 1    78.3    77.9    75.0    75.0   104.4   103.9     0.5
  SINGLE 1698 : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1    78.2    78.1    75.0    75.0   104.3   104.1     0.2
  BYN-WOW/KAN5: ** MULTIPLE CONTINGENCY **                78.2    78.0    75.0    75.0   104.2   104.0     0.2
              : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1
              : 61161 BYRON  8 - 60799 KASSON 8 CKT: 1
  SINGLE 1703 : 61972 OWATANA1 - 61976 LOON LK8 CKT: 1    78.1    77.8    75.0    75.0   104.1   103.7     0.4
  SINGLE 482  : 34308 WASECAT8 - 61160 MERIDAN8 CKT: 1    77.8    77.5    75.0    75.0   103.8   103.3     0.5
  SINGLE 481  : 34308 WASECAT8 - 60829 WAS MUN8 CKT: 1    77.8    77.4    75.0    75.0   103.7   103.2     0.5
  SINGLE 947  : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 1   .....    84.4   .....    75.0   .....   112.5  *ELIM*

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  32) 60286 NOBLES 3 - 60287 NOBLES 7 CKT:  C          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  SINGLE 2029 : 62985 HUTCHPK8 - 62986 HUTCHMN8 CKT: 1   449.2   .....   448.0   .....   100.3   .....   *NEW*
  SINGLE 1202 : 60218 INVRHLS7 - 61478 INV TR1Y CKT: 1   449.2   .....   448.0   .....   100.3   .....   *NEW*
  SINGLE 1371 : 60362 CHANRMB7 - 60369 FENTON 7 CKT: C   417.1   417.1   448.0   448.0    93.1    93.1     0.0
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   408.7   .....   448.0   .....    91.2   .....   *NEW*
  SINGLE 2898 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1   .....   446.7   .....   448.0   .....    99.7  *ELIM*
  SINGLE 2899 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1   .....   446.8   .....   448.0   .....    99.7  *ELIM*
  SINGLE 2902 : 60108 WILMART3 -  8001 G261-ST  CKT: 1   .....   449.7   .....   448.0   .....   100.4  *ELIM*
  *** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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  33) 60331 LKFLDXL3 -  6015 G263     CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  BASE CASE   : **       BASE CASE      **               105.1   105.1   110.0   110.0    95.6    95.6     0.0

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  34) 60369 FENTON 7 -  6036 G162     CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 3    :  6010 ELLSBRO  - 60119 LKYNKTN7 CKT: 1   201.9   201.9   222.0   222.0    91.0    91.0     0.0
  BASE CASE   : **       BASE CASE      **               200.7   200.7   222.0   222.0    90.4    90.4     0.0

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  35) 60710 FARM TP8 - 62839 BGFSHTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  SINGLE 1082 : 60163 WST CLD7 - 60732 WST CLD8 CKT: 1    57.0    57.0    19.3    19.3   310.6   310.3     0.3
  SINGLE 3074 : 60732 WST CLD8 - 62843 LSAUKTP8 CKT: 1    48.9    48.9    19.3    19.3   255.6   255.3     0.3
  SINGLE 3098 : 60759 STJOSPH8 - 62843 LSAUKTP8 CKT: 1    48.9    48.9    19.3    19.3   255.6   255.3     0.3
  SINGLE 1438 : 60759 STJOSPH8 - 61189 WATAB  8 CKT: 1    44.0    44.0    19.3    19.3   235.5   235.4     0.1
  SINGLE 3099 : 60760 PAYNES 8 - 62824 ZION TP8 CKT: 1    44.5    44.4    19.3    19.3   230.5   230.2     0.3
  SINGLE 3106 : 60768 ELRSATP8 - 62824 ZION TP8 CKT: 1    43.8    43.7    19.3    19.3   226.8   226.3     0.5
  SINGLE 1433 : 60752 BLCKOAK8 - 60754 MELRSMU8 CKT: 1    42.2    42.2    19.3    19.3   219.7   219.4     0.3
  SINGLE 3097 : 60758 JOHNS U8 - 62831 BRCKWTP8 CKT: 1    41.1    41.1    19.3    19.3   218.9   218.8     0.1
  SINGLE 1434 : 60753 MEIRGRV8 - 60768 ELRSATP8 CKT: 1    41.6    41.4    19.3    19.3   215.4   214.4     1.0
  SINGLE 1432 : 60752 BLCKOAK8 - 60753 MEIRGRV8 CKT: 1    40.9    40.9    19.3    19.3   212.0   211.5     0.5
  SINGLE 1431 : 60749 DGLAS C8 - 60750 OSAKIS 8 CKT: 1    39.4    39.4    19.3    19.3   205.3   205.4    -0.1
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SINGLE 3091 : 60750 OSAKIS 8 - 62820 W UNION8 CKT: 1    38.4    38.4    19.3    19.3   199.9   199.8     0.1
SINGLE 2106 : 63222 ALEXAND7 - 67452 ALEXSS   CKT: 1    36.8    36.8    19.3    19.3   191.2   190.9     0.3
SINGLE 1044 : 60146 GRANCTY7 - 60164 XRDS   7 CKT: 1    36.8    36.8    19.3    19.3   190.5   190.2     0.3
SINGLE 2101 : 63219 GRANTCO7 - 63220 ELBOWLK7 CKT: 1    36.2    36.1    19.3    19.3   188.3   188.0     0.3
SINGLE 3096 : 60757 AVON   8 - 62831 BRCKWTP8 CKT: 1    35.8    35.8    19.3    19.3   186.4   186.4     0.0
SINGLE 1427 : 60743 BELGRAD8 - 60760 PAYNES 8 CKT: 1    36.0    36.0    19.3    19.3   186.2   185.8     0.4
SINGLE 1034 : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1    35.5    35.5    19.3    19.3   185.7   184.8     0.9
SINGLE 3055 : 60717 WAKEFLD8 - 62846 FRHV TP8 CKT: 1    36.2    36.2    19.3    19.3   185.5   185.5     0.0
SINGLE 2104 : 63220 ELBOWLK7 - 63221 BRANDN 7 CKT: 1    35.4    35.4    19.3    19.3   184.1   183.9     0.2
SINGLE 3051 : 60705 LUXBGTP8 - 62846 FRHV TP8 CKT: 1    35.7    35.7    19.3    19.3   183.0   183.1    -0.1
SINGLE 3083 : 60743 BELGRAD8 - 62827 CROW LK8 CKT: 1    35.4    35.4    19.3    19.3   182.9   182.8     0.1
SINGLE 3049 : 60705 LUXBGTP8 - 62620 WATKINS8 CKT: 1    35.4    35.3    19.3    19.3   181.4   181.5    -0.1
SCL-SAK/WAK7: ** MULTIPLE CONTINGENCY **                34.9    34.9    19.3    19.3   180.7   180.4     0.3
            : 60157 STCLOUD7 - 60159 STCTPW 7 CKT: 1
            : 60157 STCLOUD7 - 60154 SAUK RV7 CKT: 1
SINGLE 3047 : 60703 WATKINS8 - 62620 WATKINS8 CKT: 1    34.9    34.9    19.3    19.3   179.6   179.7    -0.1
SINGLE 1039 : 60144 DGLASCO7 - 63222 ALEXAND7 CKT: 1    34.7    34.6    19.3    19.3   179.3   179.1     0.2
SINGLE 1407 : 60703 WATKINS8 - 60704 KIMBALL8 CKT: 1    34.8    34.7    19.3    19.3   178.7   178.8    -0.1
SINGLE 3085 : 60744 BROOTEN8 - 62827 CROW LK8 CKT: 1    34.6    34.5    19.3    19.3   178.4   178.3     0.1
SINGLE 2194 : 63329 WAHPETN4 - 63331 FERGSFL4 CKT: 1    34.4    34.4    19.3    19.3   178.3   177.9     0.4
SINGLE 2105 : 63221 BRANDN 7 - 67452 ALEXSS   CKT: 1    34.5    34.5    19.3    19.3   178.2   178.0     0.2
SINGLE 2055 : 63051 HENNING4 - 63331 FERGSFL4 CKT: 1    34.2    34.2    19.3    19.3   177.2   176.9     0.3
SINGLE 1083 : 60164 XRDS   7 - 60165 MEI INT7 CKT: 1    34.4    34.4    19.3    19.3   177.1   176.9     0.2
SINGLE 1064 : 60154 SAUK RV7 - 60157 STCLOUD7 CKT: 1    34.2    34.2    19.3    19.3   176.9   176.7     0.2
SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    33.9    33.8    19.3    19.3   176.5   176.4     0.1
SINGLE 2192 : 63327 HANKSON4 - 63329 WAHPETN4 CKT: 1    34.1    34.0    19.3    19.3   176.4   176.0     0.4
SINGLE 2054 : 63051 HENNING4 - 63052 INMAN  4 CKT: 1    34.0    34.0    19.3    19.3   176.2   175.9     0.3
SINGLE 1120 : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C    34.1    34.0    19.3    19.3   176.1   175.5     0.6
SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    33.8    33.7    19.3    19.3   175.7   175.1     0.6
SINGLE 1121 : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1    33.9    33.9    19.3    19.3   175.6   175.2     0.4
SINGLE 1076 : 60159 STCTPW 7 - 60162 WAKEFLD7 CKT: 1    33.7    33.6    19.3    19.3   175.6   174.9     0.7
SINGLE 1408 : 60704 KIMBALL8 - 60761 SOUTHVN8 CKT: 1    33.9    33.9    19.3    19.3   175.0   175.1    -0.1
SINGLE 3084 : 60744 BROOTEN8 - 62826 BANGRTP8 CKT: 1    33.9    33.9    19.3    19.3   174.9   174.8     0.1
SINGLE 1412 : 60712 ANNDALE8 - 60761 SOUTHVN8 CKT: 1    33.9    33.9    19.3    19.3   174.7   174.8    -0.1
SINGLE 2103 : 63219 GRANTCO7 - 66555 MORRIS 7 CKT: 1    33.7    33.7    19.3    19.3   174.6   173.8     0.8
SINGLE 2925 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1    33.5    33.5    19.3    19.3   173.9   173.9     0.0
SINGLE 2926 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1    33.5    33.5    19.3    19.3   173.9   173.9     0.0
SINGLE 2189 : 63314 BIGSTON4 - 63325 BROWNSV4 CKT: 1    33.6    33.5    19.3    19.3   173.9   173.7     0.2
SINGLE 2191 : 63325 BROWNSV4 - 63327 HANKSON4 CKT: 1    33.5    33.5    19.3    19.3   173.5   173.2     0.3
SINGLE 1081 : 60163 WST CLD7 - 60165 MEI INT7 CKT: 1    33.4    33.4    19.3    19.3   173.4   172.7     0.7
SINGLE 1013 : 60133 SHEYNNE4 - 63336 AUDUBON4 CKT: 1    33.5   .....    19.3   .....   173.3   .....   *NEW*
SINGLE 1045 : 60146 GRANCTY7 - 60348 BENCTP7  CKT: 1    33.5    33.5    19.3    19.3   173.0   172.8     0.2
SINGLE 3104 : 60767 WLMSTAP8 - 62826 BANGRTP8 CKT: 1    33.5    33.5    19.3    19.3   173.0   173.0     0.0
SINGLE 1035 : 60143 BENTON 7 - 60146 GRANCTY7 CKT: 1    33.4    33.3    19.3    19.3   172.5   172.2     0.3
SINGLE 2922 : 60156 PYNSVIL7 - 60702 PAYNES19 CKT: 1    33.7    33.7    19.3    19.3   172.4   172.5    -0.1
BASE CASE   : **       BASE CASE      **               32.3    32.3    19.3    19.3   167.2   167.3    -0.1
009   7     : ** MULTIPLE CONTINGENCY **               31.3    31.3    19.3    19.3   161.7   161.8    -0.1
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 1787 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1    31.2    31.2    19.3    19.3   161.3   161.4    -0.1
SHC-CNC/BUL3: ** MULTIPLE CONTINGENCY **                31.2    31.2    19.3    19.3   161.2   161.3    -0.1
            : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
            : 60160 SHERCO 3 - 63031 BUNKER 3 CKT: 1
009   1     : ** MULTIPLE CONTINGENCY **               31.1    31.1    19.3    19.3   161.1   160.7     0.4
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 60151 MNTCELO3 - 60160 SHERCO 3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
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              : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 2024 : 62980 MCLEOD 4 - 62981 MCLEOD 7 CKT: 1    31.1    31.0    19.3    19.3   161.1   160.9     0.2
SINGLE 974  : 60114 ELM CRK3 - 60151 MNTCELO3 CKT: 1    31.1    31.1    19.3    19.3   160.8   160.9    -0.1
SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1    31.0    31.0    19.3    19.3   160.8   160.5     0.3
SINGLE 1171 : 60206 CROWRVR7 - 62925 DICKNSN7 CKT: 1    30.9    30.9    19.3    19.3   160.7   160.4     0.3
SINGLE 1999 : 62925 DICKNSN7 - 63030 DICKNSN3 CKT: 1    31.1    31.1    19.3    19.3   160.7   160.4     0.3
SINGLE 3094 : 60756 ALBANY 8 - 62830 ALBANY 8 CKT: 1    31.1    31.1    19.3    19.3   160.6   160.7    -0.1
SINGLE 2013 : 62938 OTSEGO 8 - 63020 ELK RIV8 CKT: 1    30.9    30.8    19.3    19.3   160.5   160.2     0.3
SINGLE 3451 : 63314 BIGSTON4 - 63315 BIGSTN1G CKT: 1    31.2    31.2    19.3    19.3   160.5   160.6    -0.1
665         : ** MULTIPLE CONTINGENCY **                31.1   .....    19.3   .....   160.5   .....   *NEW*
              : 63043 ELK RIV4 - 60152 MNTCELO4 CKT: 1
              : 63043 ELK RIV4 - 62134 ELKR14S8 CKT: 1
SINGLE 1142 : 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1    30.8    30.7    19.3    19.3   160.1   159.6     0.5
SINGLE 944  : 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1    30.8    30.8    19.3    19.3   160.0   159.4     0.6
DKN-CRO/STB7: ** MULTIPLE CONTINGENCY **                30.8    30.7    19.3    19.3   160.0   159.7     0.3
              : 62925 DICKNSN7 - 60206 CROWRVR7 CKT: 1
              : 62925 DICKNSN7 - 62667 ST BONI7 CKT: 1
SINGLE 3092 : 60752 BLCKOAK8 - 62847 GROVE  8 CKT: 1    31.1    31.0    19.3    19.3   159.7   159.4     0.3
SINGLE 1043 : 60146 GRANCTY7 - 60161 STREGIS7 CKT: 1    31.2    31.2    19.3    19.3   159.6   159.7    -0.1
SINGLE 1070 : 60156 PYNSVIL7 - 60760 PAYNES 8 CKT: P    30.8    30.8    19.3    19.3   159.2   159.3    -0.1
SINGLE 1071 : 60156 PYNSVIL7 - 60760 PAYNES 8 CKT: P    30.8    30.8    19.3    19.3   159.2   159.3    -0.1
SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1    30.5    30.4    19.3    19.3   158.7   158.3     0.4
SINGLE 2503 : 66530 WATERTN4 - 66550 GRANITF4 CKT: 1    30.4    30.4    19.3    19.3   157.8   157.5     0.3
009   2     : ** MULTIPLE CONTINGENCY **                30.4    30.4    19.3    19.3   157.0   157.2    -0.2
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
              : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1
              : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
              : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
              : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
              : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SHC-CNC/ECK3: ** MULTIPLE CONTINGENCY **                30.3    30.3    19.3    19.3   156.6   156.7    -0.1
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1
SINGLE 3087 : 60746 GLENWD 8 - 62756 LEVEN  8 CKT: 1    30.0    30.0    19.3    19.3   155.8   155.6     0.2
SINGLE 2449 : 66503 BLAIR  4 - 66550 GRANITF4 CKT: 1    30.1    29.9    19.3    19.3   155.8   155.0     0.8
SINGLE 3073 : 60732 WST CLD8 - 62841 WESTWD 8 CKT: 1    29.9    29.9    19.3    19.3   154.1   154.2    -0.1
SINGLE 1429 : 60747 VILLARD8 - 60748 WESTPRT8 CKT: 1    29.2    29.2    19.3    19.3   151.4   151.3     0.1
SINGLE 1411 : 60710 FARM TP8 - 60711 RICHMND8 CKT: 1    28.9    28.9    19.3    19.3   151.1   150.6     0.5
SINGLE 1430 : 60748 WESTPRT8 - 60749 DGLAS C8 CKT: 1    27.9    27.9    19.3    19.3   145.6   145.8    -0.2
SINGLE 1409 : 60707 BLUEHRN8 - 60711 RICHMND8 CKT: 1    27.8    27.8    19.3    19.3   145.1   144.8     0.3
SINGLE 1399 : 60686 E MELRO8 - 60754 MELRSMU8 CKT: 1    28.2    28.1    19.3    19.3   144.7   144.3     0.4
SINGLE 3039 : 60686 E MELRO8 - 62829 MILWDTP8 CKT: 1    27.1    27.0    19.3    19.3   139.1   138.6     0.5
SINGLE 3052 : 60710 FARM TP8 - 62837 MUNSNTP8 CKT: 1    25.4    25.4    19.3    19.3   132.4   132.3     0.1
SINGLE 1410 : 60707 BLUEHRN8 - 60717 WAKEFLD8 CKT: 1    24.9    24.9    19.3    19.3   131.3   131.1     0.2
SINGLE 3093 : 60755 FREEPRT8 - 62829 MILWDTP8 CKT: 1    25.3    25.2    19.3    19.3   129.6   129.2     0.4
SINGLE 1435 : 60755 FREEPRT8 - 60756 ALBANY 8 CKT: 1    24.0    24.0    19.3    19.3   123.2   122.8     0.4
SINGLE 3100 : 60760 PAYNES 8 - 62835 ROSCOTP8 CKT: P    23.5    23.5    19.3    19.3   122.9   122.9     0.0
SINGLE 2053 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1    22.0    22.0    19.3    19.3   115.5   115.4     0.1
SINGLE 1080 : 60162 WAKEFLD7 - 60717 WAKEFLD8 CKT: 1    20.0    19.9    19.3    19.3   105.0   104.5     0.5
SINGLE 1366 : 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C    19.5    19.4    19.3    19.3   102.9   102.8     0.1
SINGLE 1069 : 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C    19.5    19.5    19.3    19.3   102.8   102.8     0.0
500         : ** MULTIPLE CONTINGENCY **                19.4    19.4    19.3    19.3   102.2   102.1     0.1
              : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
              : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1
SINGLE 1069 : 60156 PYNSVIL7 - 60760 PAYNES 8 CKT: P   .....    30.8   .....    19.3   .....   159.3  *ELIM*
SINGLE 1998 : 62929 ALBERTV8 - 62938 OTSEGO 8 CKT: 1   .....    31.3   .....    19.3   .....   162.5  *ELIM*
SINGLE 2021 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1   .....    31.3   .....    19.3   .....   162.2  *ELIM*
*** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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 36) 60756 ALBANY 8 - 62838 FARMING8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 1082	: 60163 WST CLD7 - 60732 WST CLD8 CKT: 1	47.8	47.8	27.6	27.6	193.0	192.8	0.2
SINGLE 3074	: 60732 WST CLD8 - 62843 LSAUKTP8 CKT: 1	41.1	41.1	27.6	27.6	155.2	155.1	0.1
SINGLE 3098	: 60759 STJOSPH8 - 62843 LSAUKTP8 CKT: 1	41.1	41.1	27.6	27.6	155.1	155.1	0.0
SINGLE 1438	: 60759 STJOSPH8 - 61189 WATAB 8 CKT: 1	36.1	36.1	27.6	27.6	140.8	140.6	0.2
SINGLE 3099	: 60760 PAYNES 8 - 62824 ZION TP8 CKT: 1	37.2	37.2	27.6	27.6	138.4	138.3	0.1
SINGLE 3106	: 60768 ELRSATP8 - 62824 ZION TP8 CKT: 1	36.6	36.5	27.6	27.6	136.2	135.7	0.5
SINGLE 1437	: 60758 JOHNS U8 - 61189 WATAB 8 CKT: 1	35.1	35.1	27.6	27.6	136.0	136.7	-0.7
SINGLE 1433	: 60752 BLCKOAK8 - 60754 MELRSMU8 CKT: 1	34.9	34.8	27.6	27.6	130.5	130.3	0.2
SINGLE 3097	: 60758 JOHNS U8 - 62831 BRCKWTP8 CKT: 1	34.2	34.2	27.6	27.6	129.2	129.2	0.0
SINGLE 1434	: 60753 MEIRGRV8 - 60768 ELRSATP8 CKT: 1	34.5	34.4	27.6	27.6	127.9	127.5	0.4
SINGLE 1432	: 60752 BLCKOAK8 - 60753 MEIRGRV8 CKT: 1	33.9	33.9	27.6	27.6	125.8	125.4	0.4
SINGLE 3091	: 60750 OSAKIS 8 - 62820 W UNION8 CKT: 1	31.5	31.5	27.6	27.6	117.3	117.2	0.1
SINGLE 2106	: 63222 ALEXAND7 - 67452 ALEXSS CKT: 1	30.1	30.0	27.6	27.6	111.4	111.2	0.2
SINGLE 1044	: 60146 GRANCTY7 - 60164 XRDS 7 CKT: 1	30.1	30.1	27.6	27.6	111.1	110.9	0.2
SINGLE 2101	: 63219 GRANTCO7 - 63220 ELBOWLK7 CKT: 1	29.3	29.3	27.6	27.6	109.0	108.8	0.2
SINGLE 1427	: 60743 BELGRAD8 - 60760 PAYNES 8 CKT: 1	29.2	29.2	27.6	27.6	107.8	107.7	0.1
SINGLE 1034	: 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1	28.9	28.8	27.6	27.6	107.5	106.9	0.6
SINGLE 3055	: 60717 WAKEFLD8 - 62846 FRHV TP8 CKT: 1	29.5	29.4	27.6	27.6	107.5	107.5	0.0
675	: ** MULTIPLE CONTINGENCY **	28.9	28.8	27.6	27.6	107.5	106.9	0.6
	: 60142 BENTON 3 - 63045 BENTON 4 CKT: 1							
	: 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1							
	: 60142 BENTON 3 - 63045 BENTON 4 CKT: 2							
SINGLE 3096	: 60757 AVON 8 - 62831 BRCKWTP8 CKT: 1	28.7	28.7	27.6	27.6	107.1	107.1	0.0
SINGLE 2104	: 63220 ELBOWLK7 - 63221 BRANDN 7 CKT: 1	28.7	28.7	27.6	27.6	106.3	106.2	0.1
SINGLE 3051	: 60705 LUXBGTP8 - 62846 FRHV TP8 CKT: 1	28.9	28.9	27.6	27.6	105.8	105.8	0.0
SINGLE 3083	: 60743 BELGRAD8 - 62827 CROW LK8 CKT: 1	28.7	28.7	27.6	27.6	105.7	105.6	0.1
SINGLE 3049	: 60705 LUXBGTP8 - 62620 WATKINS8 CKT: 1	28.6	28.6	27.6	27.6	104.6	104.6	0.0
SCL-SAK/WAK7	: ** MULTIPLE CONTINGENCY **	28.2	28.2	27.6	27.6	104.1	103.9	0.2
	: 60157 STCLOUD7 - 60159 STCTPW 7 CKT: 1							
	: 60157 STCLOUD7 - 60154 SAUK RV7 CKT: 1							
SINGLE 3047	: 60703 WATKINS8 - 62620 WATKINS8 CKT: 1	28.2	28.2	27.6	27.6	103.4	103.4	0.0
SINGLE 1039	: 60144 DGLASCO7 - 63222 ALEXAND7 CKT: 1	28.0	28.0	27.6	27.6	103.3	103.1	0.2
SINGLE 1407	: 60703 WATKINS8 - 60704 KIMBALL8 CKT: 1	28.0	28.0	27.6	27.6	102.7	102.7	0.0
SINGLE 2194	: 63329 WAHPETN4 - 63331 FERGSFL4 CKT: 1	27.9	27.8	27.6	27.6	102.7	102.3	0.4
SINGLE 3085	: 60744 BROOTEN8 - 62827 CROW LK8 CKT: 1	27.9	27.9	27.6	27.6	102.5	102.5	0.0
SINGLE 2105	: 63221 BRANDN 7 - 67452 ALEXSS CKT: 1	27.8	27.8	27.6	27.6	102.4	102.2	0.2
SINGLE 1083	: 60164 XRDS 7 - 60165 MEI INT7 CKT: 1	28.0	27.9	27.6	27.6	102.2	102.0	0.2
SINGLE 2055	: 63051 HENNING4 - 63331 FERGSFL4 CKT: 1	27.6	27.5	27.6	27.6	101.8	101.5	0.3
SINGLE 1064	: 60154 SAUK RV7 - 60157 STCLOUD7 CKT: 1	27.5	27.5	27.6	27.6	101.4	101.3	0.1
SINGLE 2192	: 63327 HANKSON4 - 63329 WAHPETN4 CKT: 1	27.5	27.4	27.6	27.6	101.2	101.0	0.2
SINGLE 958	: 60108 WILMART3 - 60192 BLUE LK3 CKT: 1	27.2	27.2	27.6	27.6	101.0	100.9	0.1
SINGLE 2054	: 63051 HENNING4 - 63052 INMAN 4 CKT: 1	27.4	27.3	27.6	27.6	101.0	100.7	0.3
SINGLE 1076	: 60159 STCTPW 7 - 60162 WAKEFLD7 CKT: 1	27.2	27.2	27.6	27.6	100.9	100.5	0.4
756	: ** MULTIPLE CONTINGENCY **	27.2	27.2	27.6	27.6	100.9	100.5	0.4
	: 62815 I94PARK7 - 62816 STAUGST7 CKT: 1							
	: 60162 WAKEFLD7 - 60159 STCTPW 7 CKT: 1							
	: 60157 STCLOUD7 - 60159 STCTPW 7 CKT: 1							
	: 62816 STAUGST7 - 60159 STCTPW 7 CKT: 1							
SINGLE 1120	: 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C	27.4	27.3	27.6	27.6	100.7	100.4	0.3
SINGLE 1121	: 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1	27.3	27.2	27.6	27.6	100.6	100.3	0.3
810 C1	: ** MULTIPLE CONTINGENCY **	27.3	27.2	27.6	27.6	100.6	100.3	0.3
	: 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1							
	: 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C							
SINGLE 2927	: 60160 SHERCO 3 - 60002 SHERC33G CKT: 1	27.1	27.1	27.6	27.6	100.5	100.1	0.4
SINGLE 1408	: 60704 KIMBALL8 - 60761 SOUTHVN8 CKT: 1	27.3	27.2	27.6	27.6	100.1	100.1	0.0
SINGLE 3084	: 60744 BROOTEN8 - 62826 BANGRTP8 CKT: 1	27.2	27.2	27.6	27.6	100.0	99.9	0.1
SINGLE 1412	: 60712 ANNDALE8 - 60761 SOUTHVN8 CKT: 1	27.2	27.2	27.6	27.6	99.9	99.9	0.0
SINGLE 2103	: 63219 GRANTCO7 - 66555 MORRIS 7 CKT: 1	27.1	27.0	27.6	27.6	99.8	99.3	0.5
SINGLE 2189	: 63314 BIGSTON4 - 63325 BROWNSV4 CKT: 1	27.0	26.9	27.6	27.6	99.4	99.2	0.2
SINGLE 2926	: 60160 SHERCO 3 - 60001 SHERC32G CKT: 1	26.9	26.9	27.6	27.6	99.3	99.3	0.0
SINGLE 2925	: 60160 SHERCO 3 - 60000 SHERC31G CKT: 1	26.9	26.9	27.6	27.6	99.3	99.3	0.0
SINGLE 2191	: 63325 BROWNSV4 - 63327 HANKSON4 CKT: 1	26.9	26.8	27.6	27.6	99.1	98.9	0.2
750	: ** MULTIPLE CONTINGENCY **	26.8	26.8	27.6	27.6	99.1	99.1	0.0

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              : 62817 LSAUKTP7 - 60144 DGLASCO7 CKT: 1
              : 60144 DGLASCO7 - 60749 DGLAS C8 CKT: 1
SINGLE 1035 : 60143 BENTON 7 - 60146 GRANCTY7 CKT: 1    27.0    27.0    27.6    27.6    99.0    98.8     0.2
SINGLE 1013 : 60133 SHEYNNE4 - 63336 AUDUBON4 CKT: 1    26.9    26.8    27.6    27.6    99.0    98.5     0.5
SINGLE 3104 : 60767 WLMSTAP8 - 62826 BANGRTP8 CKT: 1    26.9    26.9    27.6    27.6    98.8    98.7     0.1
SINGLE 1045 : 60146 GRANCTY7 - 60348 BENCTP7  CKT: 1    26.8    26.8    27.6    27.6    98.7    98.5     0.2
SINGLE 1081 : 60163 WST CLD7 - 60165 MEI INT7 CKT: 1    26.7    26.7    27.6    27.6    98.7    98.3     0.4
SINGLE 2922 : 60156 PYNSVIL7 - 60702 PAYNES19 CKT: 1    27.0    27.0    27.6    27.6    98.3    98.4    -0.1
SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    26.7    26.7    27.6    27.6    98.1    98.3    -0.2
SINGLE 2201 : 63369 JAMESTN3 - 66791 CENTER 3 CKT: 1    26.5    26.4    27.6    27.6    97.8    97.1     0.7
BASE CASE   : **       BASE CASE      **               25.7    25.7    27.6    27.6    94.5    94.6    -0.1
SINGLE 1436 : 60756 ALBANY 8 - 60757 AVON   8 CKT: 1    24.1    24.1    27.6    27.6    92.2    92.2     0.0
009   7     : ** MULTIPLE CONTINGENCY **               24.7    24.7    27.6    27.6    90.7    90.7     0.0
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
              : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
              : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
              : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
              : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 1787 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1    24.6    24.6    27.6    27.6    90.4    90.4     0.0
SINGLE 2024 : 62980 MCLEOD 4 - 62981 MCLEOD 7 CKT: 1    24.5    24.4    27.6    27.6    90.3    90.2     0.1
SHC-CNC/BUL3: ** MULTIPLE CONTINGENCY **               24.6    24.6    27.6    27.6    90.3    90.3     0.0
              : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
              : 60160 SHERCO 3 - 63031 BUNKER 3 CKT: 1
009   1     : ** MULTIPLE CONTINGENCY **               24.5   .....    27.6   .....    90.2   .....   *NEW*
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
              : 60151 MNTCELO3 - 60160 SHERCO 3 CKT: 1
              : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
              : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
              : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 3094 : 60756 ALBANY 8 - 62830 ALBANY 8 CKT: 1    24.6    24.6    27.6    27.6    90.2    90.2     0.0
670     1   : ** MULTIPLE CONTINGENCY **               24.6   .....    27.6   .....    90.2   .....   *NEW*
              : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
              : 63031 BUNKER 3 - 60160 SHERCO 3 CKT: 1
              : 63031 BUNKER 3 - 60202 COON CK3 CKT: 1
              : 60202 COON CK3 - 61487 CNCMID2Y CKT: 1
              : 61487 CNCMID2Y - 60203 COON CK7 CKT: 1
              : 61487 CNCMID2Y - 60655 CNCTER29 CKT: 1
              : 63046 BUNKER 4 - 63031 BUNKER 3 CKT: 1
SINGLE 1999 : 62925 DICKNSN7 - 63030 DICKNSN3 CKT: 1    24.5   .....    27.6   .....    90.1   .....   *NEW*
SINGLE 974  : 60114 ELM CRK3 - 60151 MNTCELO3 CKT: 1    24.5    24.5    27.6    27.6    90.1    90.1     0.0
SINGLE 3451 : 63314 BIGSTON4 - 63315 BIGSTN1G CKT: 1    24.6    24.6    27.6    27.6    90.0    90.1    -0.1
SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1    24.4   .....    27.6   .....    90.0   .....   *NEW*

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 37) 60786 DUNDAS 8 - 60788 VALLYTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    86.3    85.9    48.0    48.0   187.2   186.3     0.9
SINGLE 947  : 60105 PR ISLD3 - 60106 PR ISLD5 CKT: 1    63.8    63.7    48.0    48.0   137.9   137.6     0.3
SINGLE 2902 : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1    63.8    63.7    48.0    48.0   137.9   137.6     0.3
SINGLE 1465 : 60791 FARIBLT8 - 60794 NRSTRND8 CKT: P    64.2    64.0    48.0    48.0   136.8   136.5     0.3
SPC-PRI/CTF5: ** MULTIPLE CONTINGENCY **               63.1    63.0    48.0    48.0   136.5   136.2     0.3
              : 63071 SPRNGCK5 - 60106 PR ISLD5 CKT: 1
              : 63071 SPRNGCK5 - 60103 CANNFLS5 CKT: 1
740     1   : ** MULTIPLE CONTINGENCY **               63.1    63.0    48.0    48.0   136.5   136.2     0.3
              : 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1
              : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1
              : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1
SINGLE 1459 : 60787 NOFIELD8 - 60801 CNFLSTR8 CKT: 1    62.8    62.7    48.0    48.0   136.3   136.2     0.1
SINGLE 3118 : 60794 NRSTRND8 - 62389 KENYON 8 CKT: 1    63.6    63.4    48.0    48.0   135.6   135.2     0.4
SINGLE 955  : 60107 W FARIB7 - 61952 S FARIB5 CKT: 1    63.4    63.1    48.0    48.0   135.3   134.8     0.5
SINGLE 1699 : 61952 S FARIB5 - 61964 OWATNNA5 CKT: 1    63.4    63.1    48.0    48.0   135.3   134.8     0.5
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SINGLE 3188	: 60905 FRMNGTN8 - 62259 LKMARN 8 CKT: 1	62.3	62.1	48.0	48.0	135.1	134.8	0.3
SINGLE 3120	: 60797 KENYNTP8 - 62389 KENYON 8 CKT: 1	63.3	63.1	48.0	48.0	134.9	134.6	0.3
SINGLE 946	: 60104 CANNFLS7 - 60801 CNFLSTR8 CKT: 1	61.8	61.7	48.0	48.0	133.7	133.5	0.2
700 1	: ** MULTIPLE CONTINGENCY **	62.3	62.1	48.0	48.0	133.1	132.8	0.3
	: 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1							
	: 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1							
	: 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1							
IVH-BLL/RRK3	: ** MULTIPLE CONTINGENCY **	62.2	62.0	48.0	48.0	132.8	132.5	0.3
	: 60217 INVRHLS3 - 60192 BLUE LK3 CKT: 1							
	: 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1							
SINGLE 1468	: 60796 KENYON 8 - 60797 KENYNTP8 CKT: 1	62.1	62.0	48.0	48.0	132.4	132.0	0.4
SINGLE 1197	: 60217 INVRHLS3 - 60218 INVRHLS7 CKT: 1	61.5	61.4	48.0	48.0	131.4	131.1	0.3
SINGLE 1469	: 60796 KENYON 8 - 60819 CHERYTP8 CKT: 1	61.6	61.4	48.0	48.0	131.1	130.8	0.3
SINGLE 2927	: 60160 SHERCO 3 - 60002 SHERC33G CKT: 1	61.2	61.0	48.0	48.0	130.5	130.1	0.4
SINGLE 1480	: 60818 ZUMBRTA8 - 60819 CHERYTP8 CKT: 1	61.1	60.9	48.0	48.0	130.1	129.7	0.4
SINGLE 1698	: 61948 BYRON 5 - 61964 OWATNNA5 CKT: 1	60.5	60.3	48.0	48.0	129.0	128.4	0.6
BYN-WOW/KAN5	: ** MULTIPLE CONTINGENCY **	60.4	60.2	48.0	48.0	128.7	128.2	0.5
	: 61948 BYRON 5 - 61964 OWATNNA5 CKT: 1							
	: 61161 BYRON 8 - 60799 KASSON 8 CKT: 1							
SINGLE 2926	: 60160 SHERCO 3 - 60001 SHERC32G CKT: 1	60.3	60.2	48.0	48.0	128.6	128.3	0.3
SINGLE 2925	: 60160 SHERCO 3 - 60000 SHERC31G CKT: 1	60.3	60.2	48.0	48.0	128.6	128.3	0.3
SINGLE 2937	: 60186 AS KING3 - 60006 KING 31G CKT: 1	59.9	59.7	48.0	48.0	127.6	127.3	0.3
SINGLE 2900	: 60105 PR ISLD3 - 60003 PR IS31G CKT: 1	59.8	59.6	48.0	48.0	127.4	127.1	0.3
SINGLE 945	: 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1	59.3	59.1	48.0	48.0	127.3	127.0	0.3
SINGLE 2898	: 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1	59.3	59.2	48.0	48.0	127.3	127.1	0.2
740 2	: ** MULTIPLE CONTINGENCY **	59.3	59.2	48.0	48.0	127.3	127.1	0.2
	: 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1							
	: 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1							
SINGLE 2920	: 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1	59.7	59.6	48.0	48.0	127.2	126.9	0.3
SINGLE 2901	: 60105 PR ISLD3 - 60004 PR IS32G CKT: 1	59.7	59.6	48.0	48.0	127.2	126.9	0.3
SINGLE 3013	: 60342 WHAST 7 - 62258 WHASTNG8 CKT: 1	59.5	59.3	48.0	48.0	127.0	126.7	0.3
705 1	: ** MULTIPLE CONTINGENCY **	59.4	59.2	48.0	48.0	126.6	126.2	0.4
	: 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1							
	: 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1							
	: 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 1							
SINGLE 944	: 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1	59.4	59.2	48.0	48.0	126.5	126.2	0.3
SINGLE 1142	: 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1	59.3	59.2	48.0	48.0	126.4	126.1	0.3
BLL-EDP/PKL3	: ** MULTIPLE CONTINGENCY **	59.2	59.0	48.0	48.0	126.1	125.7	0.4
	: 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1							
	: 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1							
SINGLE 964	: 60110 WILMART7 - 60194 CARVRCO7 CKT: 1	59.2	59.0	48.0	48.0	126.0	125.7	0.3
SINGLE 3115	: 60789 CIRCLTP8 - 62872 FARIBLT8 CKT: 1	59.4	59.3	48.0	48.0	125.8	125.5	0.3
SINGLE 2942	: 60200 BLK DG27 - 60014 BLK D74G CKT: 1	58.9	58.9	48.0	48.0	125.7	125.9	-0.2
SINGLE 3364	: 61948 BYRON 5 - 61906 MAPLE LF CKT: 1	58.8	58.6	48.0	48.0	125.2	124.8	0.4
SINGLE 1200	: 60218 INVRHLS7 - 60223 KOCHREF7 CKT: 1	58.7	58.5	48.0	48.0	125.0	124.7	0.3
715 4	: ** MULTIPLE CONTINGENCY **	58.5	58.4	48.0	48.0	124.8	124.5	0.3
	: 62666 GLNDALE7 - 60243 SCOTTAP7 CKT: 1							
	: 62666 GLNDALE7 - 62672 GLNDALE8 CKT: 1							
	: 60243 SCOTTAP7 - 60244 SCOTTCO7 CKT: 1							
	: 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1							
	: 60194 CARVRCO7 - 60931 CARVRCO8 CKT: 1							
BLL-PRI/IVH3	: ** MULTIPLE CONTINGENCY **	58.6	58.5	48.0	48.0	124.8	124.4	0.4
	: 60192 BLUE LK3 - 60105 PR ISLD3 CKT: 1							
	: 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1							
SINGLE 3144	: 60817 BURNSID8 - 62387 SPRNGCK8 CKT: 1	58.5	58.4	48.0	48.0	124.8	124.5	0.3
SINGLE 1126	: 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1	58.4	58.2	48.0	48.0	124.2	123.9	0.3
SINGLE 1202	: 60218 INVRHLS7 - 61478 INV TR1Y CKT: 1	58.2	58.1	48.0	48.0	124.2	123.9	0.3
PRI-RRK/RRK3	: ** MULTIPLE CONTINGENCY **	58.3	58.2	48.0	48.0	124.2	123.9	0.3
	: 60105 PR ISLD3 - 60236 REDROCK3 CKT: 1							
	: 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2							
SINGLE 3395	: 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1	58.3	58.2	48.0	48.0	124.2	123.9	0.3
SINGLE 2941	: 60200 BLK DG27 - 60013 BLK D73G CKT: 1	58.3	58.1	48.0	48.0	124.2	123.9	0.3
SINGLE 2961	: 60240 RIVRSID7 - 60008 RIVRS78G CKT: 1	58.2	58.1	48.0	48.0	124.0	123.7	0.3

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715       2 : ** MULTIPLE CONTINGENCY **                58.0    57.9    48.0    48.0   123.7   123.4     0.3
            : 62666 GLNDALE7 - 60243 SCOTTAP7 CKT: 1
            : 60242 SAVAGE 7 - 62668 EGLCKTP7 CKT: 1
            : 62666 GLNDALE7 - 62672 GLNDALE8 CKT: 1
            : 60243 SCOTTAP7 - 60244 SCOTTCO7 CKT: 1
            : 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1
            : 60194 CARVRCO7 - 60931 CARVRCO8 CKT: 1
            : 60190 BLK DOG7 - 60242 SAVAGE 7 CKT: 1
            : 62668 EGLCKTP7 - 62975 SHAKOPE7 CKT: 1
            : 62975 SHAKOPE7 - 60244 SCOTTCO7 CKT: 1
            : 60244 SCOTTCO7 - 60890 SCOTTCO8 CKT: 2
022       1 : ** MULTIPLE CONTINGENCY **                58.1    58.0    48.0    48.0   123.7   123.4     0.3
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
            : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
            : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
            : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
795         : ** MULTIPLE CONTINGENCY **                58.1    57.9    48.0    48.0   123.7   123.4     0.3
            : 66550 GRANITF4 - 60150 MNVLTAP4 CKT: 1
            : 60148 MINVALY7 - 60149 MINVALT4 CKT: C
            : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1
            : 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1
            : 63054 PANTHER4 - 60742 PANTHER8 CKT: 1
SINGLE 3233 : 60982 ALMA   8 - 68874 ALMA 8   CKT: 1    58.0    57.8    48.0    48.0   123.5   123.2     0.3
SINGLE 1199 : 60218 INVRHLS7 - 60220 INVRGRV7 CKT: 1    58.0    57.8    48.0    48.0   123.4   123.1     0.3
SINGLE 2951 : 60214 HIBRDGE7 - 60010 HIBRD76G CKT: 1    58.0    57.8    48.0    48.0   123.4   123.1     0.3
SINGLE 3153 : 60826 TRAVRSE8 - 62350 TRAVERS8 CKT: 1    58.0    57.8    48.0    48.0   123.4   123.1     0.3
SINGLE 1587 : 60982 ALMA   8 - 60983 NELSON 8 CKT: 1    57.9    57.7    48.0    48.0   123.3   123.0     0.3
SINGLE 2919 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1    57.9    57.7    48.0    48.0   123.2   122.8     0.4
SINGLE 1120 : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C    57.9    57.7    48.0    48.0   123.2   122.9     0.3
SINGLE 1121 : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1    57.9    57.7    48.0    48.0   123.2   122.9     0.3
715       3 : ** MULTIPLE CONTINGENCY **                57.8    57.7    48.0    48.0   123.2   122.9     0.3
            : 60200 BLK DG27 - 62666 GLNDALE7 CKT: 1
            : 62666 GLNDALE7 - 62672 GLNDALE8 CKT: 2
810   C1    : ** MULTIPLE CONTINGENCY **                57.9    57.7    48.0    48.0   123.2   122.9     0.3
            : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1
            : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C
SCO-SSK/CAR7: ** MULTIPLE CONTINGENCY **                57.8    57.7    48.0    48.0   123.1   122.8     0.3
            : 60244 SCOTTCO7 - 62975 SHAKOPE7 CKT: 1
            : 60244 SCOTTCO7 - 60243 SCOTTAP7 CKT: 1
            : 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1
            : 60243 SCOTTAP7 - 62666 GLNDALE7 CKT: 1
SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1    57.8   .....    48.0   .....   123.0   .....   *NEW*
SINGLE 3114 : 60788 VALLYTP8 - 62870 VLLYGRV8 CKT: 1    57.9    57.8    48.0    48.0   123.0   122.7     0.3
BASE CASE   : **       BASE CASE      **                56.8    56.7    48.0    48.0   120.8   120.5     0.3
SINGLE 3123 : 60803 MIESTAP8 - 62238 MIESVIL8 CKT: 1    55.8    55.7    48.0    48.0   118.5   118.2     0.3
SINGLE 956  : 60108 WILMART3 - 60110 WILMART7 CKT: 1    55.7    55.6    48.0    48.0   118.5   118.3     0.2
SINGLE 957  : 60108 WILMART3 - 60110 WILMART7 CKT: 2    55.7    55.6    48.0    48.0   118.4   118.2     0.2
PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                55.6    55.6    48.0    48.0   118.3   118.3     0.0
            : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
            : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
SINGLE 972  : 60113 DOME   7 - 60830 EASTWD18 CKT: P    55.5    55.4    48.0    48.0   118.0   117.8     0.2
ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                55.5    55.4    48.0    48.0   118.0   117.7     0.3
            : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
SINGLE 963  : 60110 WILMART7 - 60113 DOME   7 CKT: C    55.5    55.4    48.0    48.0   118.0   117.7     0.3
SINGLE 1532 : 60897 LEBNON 8 - 60905 FRMNGTN8 CKT: 1    55.5    55.4    48.0    48.0   117.7   117.4     0.3
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SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1    55.3    55.2    48.0    48.0   117.6   117.3     0.3
050    2    : ** MULTIPLE CONTINGENCY **               55.2    55.1    48.0    48.0   117.3   117.1     0.2
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
050    1    : ** MULTIPLE CONTINGENCY **               55.2    55.1    48.0    48.0   117.3   117.1     0.2
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
            : 39901 COC DPC  - 38342 COC 69   CKT: 1
            : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
SINGLE 1473 : 60801 CNFLSTR8 - 60802 CANFLS 8 CKT: 1    55.2    55.0    48.0    48.0   117.2   116.9     0.3
SINGLE 2904 : 60108 WILMART3 -  8001 G261-ST  CKT: 1    54.9    54.7    48.0    48.0   116.6   116.3     0.3
SINGLE 2906 : 60110 WILMART7 -  8007 G261-CT2 CKT: 1    54.8    54.7    48.0    48.0   116.4   116.2     0.2
SINGLE 2905 : 60110 WILMART7 -  8006 G261-CT1 CKT: 1    54.8    54.7    48.0    48.0   116.4   116.2     0.2
SINGLE 3127 : 60805 WATRVIL8 - 62679 ELYSNTP8 CKT: 1    54.6    54.5    48.0    48.0   115.8   115.6     0.2
SINGLE 21   : 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1    54.4    54.4    48.0    48.0   115.6   115.5     0.1
SINGLE 968  : 60110 WILMART7 - 60830 EASTWD18 CKT: P    54.4    54.2    48.0    48.0   115.5   115.3     0.2
SINGLE 1462 : 60790 FAIRPRK8 - 60791 FARIBLT8 CKT: 1    54.2    54.1    48.0    48.0   115.5   115.2     0.3
SINGLE 3131 : 60808 EAGLELK8 - 62679 ELYSNTP8 CKT: 1    54.1    54.0    48.0    48.0   114.9   114.6     0.3
SINGLE 3129 : 60808 EAGLELK8 - 62347 EAGLELK8 CKT: 1    54.0    53.9    48.0    48.0   114.7   114.4     0.3
SINGLE 3157 : 60831 EASTWD28 - 62347 EAGLELK8 CKT: 1    53.7    53.6    48.0    48.0   114.1   113.9     0.2
SINGLE 3187 : 60905 FRMNGTN8 - 62256 CSTL RK8 CKT: 1    52.7    52.6    48.0    48.0   113.5   113.2     0.3
SINGLE 953  : 60107 W FARIB7 - 60792 WFARBLT8 CKT: 1    53.2    53.1    48.0    48.0   113.1   112.8     0.3
SINGLE 1377 : 60650 WILMART8 - 60831 EASTWD28 CKT: 1    53.3    53.1    48.0    48.0   113.1   112.8     0.3
SINGLE 1464 : 60791 FARIBLT8 - 60792 WFARBLT8 CKT: 1    51.3    51.2    48.0    48.0   110.0   109.8     0.2
SINGLE 1697 : 61948 BYRON  5 - 61950 BYRON  3 CKT: 1    51.5    51.4    48.0    48.0   109.3   109.0     0.3
SINGLE 3113 : 60787 NOFIELD8 - 62256 CSTL RK8 CKT: 1    50.0    49.9    48.0    48.0   107.2   106.9     0.3
SINGLE 2903 : 60107 W FARIB7 - 62865 AIRTECH7 CKT: 1    49.7    49.6    48.0    48.0   105.4   105.0     0.4
SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    49.6    49.5    48.0    48.0   104.7   104.6     0.1
SINGLE 1463 : 60790 FAIRPRK8 - 60792 WFARBLT8 CKT: 1    47.4    47.3    48.0    48.0   102.8   102.6     0.2
SINGLE 954  : 60107 W FARIB7 - 60792 WFARBLT8 CKT: P    42.9    42.8    48.0    48.0    90.9    90.6     0.3
SINGLE 952  : 60107 W FARIB7 - 60265 LOON TP7 CKT: C    42.6    42.6    48.0    48.0    90.1    90.1     0.0
815         : ** MULTIPLE CONTINGENCY **              .....    55.5   .....    48.0   .....   117.9  *ELIM*
            : 62225 BURNVIL7 - 62226 FISCHER7 CKT: 1
            : 62226 FISCHER7 - 60343 WILLPIP7 CKT: 1
            : 60343 WILLPIP7 - 62228 APPVLTW7 CKT: 1
            : 62228 APPVLTW7 - 62227 JOHNCAK7 CKT: 1
*** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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38) 60788 VALLYTP8 - 60789 CIRCLTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    90.0    89.6    48.0    48.0   194.4   193.5     0.9
SINGLE 947  : 60105 PR ISLD3 - 60106 PR ISLD5 CKT: 1    67.5    67.4    48.0    48.0   145.4   145.1     0.3
SINGLE 2902 : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1    67.5    67.4    48.0    48.0   145.4   145.1     0.3
SINGLE 1465 : 60791 FARIBLT8 - 60794 NRSTRND8 CKT: P    67.7    67.6    48.0    48.0   144.1   143.7     0.4
SINGLE 1459 : 60787 NOFIELD8 - 60801 CNFLSTR8 CKT: 1    66.7    66.6    48.0    48.0   144.1   144.0     0.1
SPC-PRI/CTF5: ** MULTIPLE CONTINGENCY **                66.9    66.8    48.0    48.0   144.0   143.8     0.2
            : 63071 SPRNGCK5 - 60106 PR ISLD5 CKT: 1
            : 63071 SPRNGCK5 - 60103 CANNFLS5 CKT: 1
740    1    : ** MULTIPLE CONTINGENCY **                66.9    66.8    48.0    48.0   144.0   143.8     0.2
            : 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1
            : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1
            : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1
SINGLE 3188 : 60905 FRMNGTN8 - 62259 LKMARN 8 CKT: 1    66.1    66.0    48.0    48.0   142.9   142.6     0.3
SINGLE 3118 : 60794 NRSTRND8 - 62389 KENYON 8 CKT: 1    67.2    67.0    48.0    48.0   142.8   142.4     0.4
SINGLE 1699 : 61952 S FARIB5 - 61964 OWATNNA5 CKT: 1    66.9    66.7    48.0    48.0   142.5   142.0     0.5
SINGLE 955  : 60107 W FARIB7 - 61952 S FARIB5 CKT: 1    66.9    66.7    48.0    48.0   142.5   142.0     0.5
SINGLE 3120 : 60797 KENYNTP8 - 62389 KENYON 8 CKT: 1    66.9    66.7    48.0    48.0   142.1   141.8     0.3
SINGLE 946  : 60104 CANNFLS7 - 60801 CNFLSTR8 CKT: 1    65.6    65.5    48.0    48.0   141.4   141.2     0.2
700    1    : ** MULTIPLE CONTINGENCY **                65.9    65.7    48.0    48.0   140.4   140.0     0.4
            : 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1
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            : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
            : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1
IVH-BLL/RRK3: ** MULTIPLE CONTINGENCY **                65.8    65.6    48.0    48.0   140.0   139.7     0.3
            : 60217 INVRHLS3 - 60192 BLUE LK3 CKT: 1
            : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1
SINGLE 1468 : 60796 KENYON 8 - 60797 KENYNTP8 CKT: 1    65.7    65.5    48.0    48.0   139.6   139.2     0.4
SINGLE 1197 : 60217 INVRHLS3 - 60218 INVRHLS7 CKT: 1    65.1    65.0    48.0    48.0   138.6   138.3     0.3
SINGLE 1469 : 60796 KENYON 8 - 60819 CHERYTP8 CKT: 1    65.1    64.9    48.0    48.0   138.3   137.9     0.4
SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    64.7    64.6    48.0    48.0   137.7   137.3     0.4
SINGLE 1480 : 60818 ZUMBRTA8 - 60819 CHERYTP8 CKT: 1    64.6    64.5    48.0    48.0   137.2   136.9     0.3
SINGLE 1698 : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1    64.1    63.8    48.0    48.0   136.2   135.6     0.6
BYN-WOW/KAN5: ** MULTIPLE CONTINGENCY **                63.9    63.7    48.0    48.0   135.9   135.4     0.5
            : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1
            : 61161 BYRON  8 - 60799 KASSON 8 CKT: 1
SINGLE 2926 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1    63.9    63.7    48.0    48.0   135.8   135.5     0.3
SINGLE 2925 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1    63.9    63.7    48.0    48.0   135.8   135.5     0.3
SINGLE 2937 : 60186 AS KING3 - 60006 KING 31G CKT: 1    63.4    63.3    48.0    48.0   134.8   134.5     0.3
SINGLE 945  : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1    63.0    62.8    48.0    48.0   134.8   134.5     0.3
SINGLE 2898 : 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1    63.0    62.8    48.0    48.0   134.8   134.5     0.3
740    2    : ** MULTIPLE CONTINGENCY **                63.0    62.8    48.0    48.0   134.8   134.5     0.3
            : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1
            : 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1
SINGLE 2900 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1    63.3    63.2    48.0    48.0   134.6   134.3     0.3
SINGLE 2920 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1    63.2    63.1    48.0    48.0   134.4   134.1     0.3
SINGLE 2901 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1    63.3    63.1    48.0    48.0   134.4   134.1     0.3
SINGLE 3013 : 60342 WHAST  7 - 62258 WHASTNG8 CKT: 1    63.1    62.9    48.0    48.0   134.2   134.0     0.2
705       1 : ** MULTIPLE CONTINGENCY **                62.9    62.8    48.0    48.0   133.8   133.5     0.3
            : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1
            : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
            : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 1
SINGLE 944  : 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1    62.9    62.8    48.0    48.0   133.7   133.4     0.3
SINGLE 1142 : 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1    62.9    62.7    48.0    48.0   133.6   133.3     0.3
BLL-EDP/PKL3: ** MULTIPLE CONTINGENCY **                62.7    62.6    48.0    48.0   133.3   132.9     0.4
            : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
            : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1
SINGLE 964  : 60110 WILMART7 - 60194 CARVRCO7 CKT: 1    62.7    62.6    48.0    48.0   133.2   132.9     0.3
SINGLE 3115 : 60789 CIRCLTP8 - 62872 FARIBLT8 CKT: 1    63.0    62.9    48.0    48.0   133.0   132.7     0.3
SINGLE 2942 : 60200 BLK DG27 - 60014 BLK D74G CKT: 1    62.5    62.5    48.0    48.0   132.9   133.2    -0.3
SINGLE 3364 : 61948 BYRON  5 - 61906 MAPLE LF CKT: 1    62.3    62.2    48.0    48.0   132.3   132.0     0.3
SINGLE 1200 : 60218 INVRHLS7 - 60223 KOCHREF7 CKT: 1    62.2    62.1    48.0    48.0   132.2   131.9     0.3
715       4 : ** MULTIPLE CONTINGENCY **                62.1    62.0    48.0    48.0   132.1   131.8     0.3
            : 62666 GLNDALE7 - 60243 SCOTTAP7 CKT: 1
            : 62666 GLNDALE7 - 62672 GLNDALE8 CKT: 1
            : 60243 SCOTTAP7 - 60244 SCOTTCO7 CKT: 1
            : 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1
            : 60194 CARVRCO7 - 60931 CARVRCO8 CKT: 1
SINGLE 3144 : 60817 BURNSID8 - 62387 SPRNGCK8 CKT: 1    62.1    61.9    48.0    48.0   132.0   131.8     0.2
BLL-PRI/IVH3: ** MULTIPLE CONTINGENCY **                62.2    62.0    48.0    48.0   132.0   131.6     0.4
            : 60192 BLUE LK3 - 60105 PR ISLD3 CKT: 1
            : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
SINGLE 2941 : 60200 BLK DG27 - 60013 BLK D73G CKT: 1    61.8    61.7    48.0    48.0   131.5   131.2     0.3
PRI-RRK/RRK3: ** MULTIPLE CONTINGENCY **                61.8    61.7    48.0    48.0   131.4   131.1     0.3
            : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 1
            : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
SINGLE 1202 : 60218 INVRHLS7 - 61478 INV TR1Y CKT: 1    61.8    61.7    48.0    48.0   131.4   131.1     0.3
SINGLE 1126 : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1    61.9    61.8    48.0    48.0   131.4   131.0     0.4
SINGLE 3395 : 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1    61.9    61.7    48.0    48.0   131.4   131.1     0.3
SINGLE 2961 : 60240 RIVRSID7 - 60008 RIVRS78G CKT: 1    61.8    61.6    48.0    48.0   131.2   130.9     0.3
715       2 : ** MULTIPLE CONTINGENCY **                61.6    61.4    48.0    48.0   130.9   130.6     0.3
            : 62666 GLNDALE7 - 60243 SCOTTAP7 CKT: 1
            : 60242 SAVAGE 7 - 62668 EGLCKTP7 CKT: 1
            : 62666 GLNDALE7 - 62672 GLNDALE8 CKT: 1
            : 60243 SCOTTAP7 - 60244 SCOTTCO7 CKT: 1
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             : 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1
             : 60194 CARVRCO7 - 60931 CARVRCO8 CKT: 1
             : 60190 BLK DOG7 - 60242 SAVAGE 7 CKT: 1
             : 62668 EGLCKTP7 - 62975 SHAKOPE7 CKT: 1
             : 62975 SHAKOPE7 - 60244 SCOTTCO7 CKT: 1
             : 60244 SCOTTCO7 - 60890 SCOTTCO8 CKT: 2
022        1 : ** MULTIPLE CONTINGENCY **                61.7    61.5    48.0    48.0   130.9   130.6     0.3
             : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
             : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
             : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
             : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
             : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
             : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
             : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
             : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
             : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
             : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
SINGLE 3233 : 60982 ALMA   8 - 68874 ALMA 8   CKT: 1    61.5    61.4    48.0    48.0   130.7   130.4     0.3
SINGLE 3153 : 60826 TRAVRSE8 - 62350 TRAVERS8 CKT: 1    61.5    61.4    48.0    48.0   130.6   130.3     0.3
SINGLE 1199 : 60218 INVRHLS7 - 60220 INVRGRV7 CKT: 1    61.5    61.4    48.0    48.0   130.6   130.3     0.3
SINGLE 2951 : 60214 HIBRDGE7 - 60010 HIBRD76G CKT: 1    61.5    61.4    48.0    48.0   130.6   130.3     0.3
SINGLE 2943 : 60200 BLK DG27 - 62230 PILOTKB7 CKT: 1    61.4    61.2    48.0    48.0   130.5   130.2     0.3
SINGLE 1587 : 60982 ALMA   8 - 60983 NELSON 8 CKT: 1    61.4    61.3    48.0    48.0   130.5   130.2     0.3
SINGLE 1120 : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C    61.4    61.3    48.0    48.0   130.4   130.1     0.3
SINGLE 1121 : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1    61.4    61.3    48.0    48.0   130.4   130.1     0.3
715        3 : ** MULTIPLE CONTINGENCY **                61.4    61.3    48.0    48.0   130.4   130.1     0.3
             : 60200 BLK DG27 - 62666 GLNDALE7 CKT: 1
             : 62666 GLNDALE7 - 62672 GLNDALE8 CKT: 2
SCO-SSK/CAR7: ** MULTIPLE CONTINGENCY **                61.4    61.2    48.0    48.0   130.3   130.0     0.3
             : 60244 SCOTTCO7 - 62975 SHAKOPE7 CKT: 1
             : 60244 SCOTTCO7 - 60243 SCOTTAP7 CKT: 1
             : 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1
             : 60243 SCOTTAP7 - 62666 GLNDALE7 CKT: 1
SINGLE 2919 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1    61.4    61.3    48.0    48.0   130.3   130.0     0.3
SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1    61.3   .....    48.0   .....   130.2   .....   *NEW*
BASE CASE   : **       BASE CASE      **                60.3    60.2    48.0    48.0   128.0   127.7     0.3
SINGLE 3123 : 60803 MIESTAP8 - 62238 MIESVIL8 CKT: 1    59.3    59.2    48.0    48.0   125.7   125.4     0.3
SINGLE 956  : 60108 WILMART3 - 60110 WILMART7 CKT: 1    59.3    59.2    48.0    48.0   125.7   125.5     0.2
SINGLE 957  : 60108 WILMART3 - 60110 WILMART7 CKT: 2    59.2    59.1    48.0    48.0   125.6   125.4     0.2
PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                59.2    59.2    48.0    48.0   125.5   125.5     0.0
             : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
             : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                59.0    58.9    48.0    48.0   125.2   124.9     0.3
             : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
SINGLE 963  : 60110 WILMART7 - 60113 DOME   7 CKT: C    59.0    58.9    48.0    48.0   125.2   124.9     0.3
SINGLE 972  : 60113 DOME   7 - 60830 EASTWD18 CKT: P    59.0    58.9    48.0    48.0   125.2   124.9     0.3
SINGLE 3114 : 60788 VALLYTP8 - 62870 VLLYGRV8 CKT: 1    58.9    58.8    48.0    48.0   124.8   124.5     0.3
SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1    58.9    58.7    48.0    48.0   124.8   124.5     0.3
SINGLE 1532 : 60897 LEBNON 8 - 60905 FRMNGTN8 CKT: 1    59.0    58.9    48.0    48.0   124.7   124.5     0.2
050    2    : ** MULTIPLE CONTINGENCY **                58.7    58.6    48.0    48.0   124.5   124.3     0.2
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
050    1    : ** MULTIPLE CONTINGENCY **                58.7    58.6    48.0    48.0   124.5   124.3     0.2
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
SINGLE 1473 : 60801 CNFLSTR8 - 60802 CANFLS 8 CKT: 1    58.7    58.5    48.0    48.0   124.3   124.0     0.3
SINGLE 2904 : 60108 WILMART3 -  8001 G261-ST  CKT: 1    58.4    58.3    48.0    48.0   123.8   123.5     0.3
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SINGLE 2905 : 60110 WILMART7 -  8006 G261-CT1 CKT: 1    58.3    58.2    48.0    48.0   123.6   123.3     0.3
SINGLE 2906 : 60110 WILMART7 -  8007 G261-CT2 CKT: 1    58.3    58.2    48.0    48.0   123.6   123.3     0.3
SINGLE 3127 : 60805 WATRVIL8 - 62679 ELYSNTP8 CKT: 1    58.2    58.1    48.0    48.0   123.0   122.8     0.2
SINGLE 21   : 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1    57.9    57.9    48.0    48.0   122.8   122.6     0.2
SINGLE 968  : 60110 WILMART7 - 60830 EASTWD18 CKT: P    57.9    57.8    48.0    48.0   122.7   122.4     0.3
SINGLE 1462 : 60790 FAIRPRK8 - 60791 FARIBLT8 CKT: 1    57.7    57.6    48.0    48.0   122.6   122.4     0.2
SINGLE 3131 : 60808 EAGLELK8 - 62679 ELYSNTP8 CKT: 1    57.7    57.6    48.0    48.0   122.0   121.8     0.2
SINGLE 3129 : 60808 EAGLELK8 - 62347 EAGLELK8 CKT: 1    57.6    57.5    48.0    48.0   121.9   121.6     0.3
SINGLE 3157 : 60831 EASTWD28 - 62347 EAGLELK8 CKT: 1    57.3    57.2    48.0    48.0   121.3   121.0     0.3
SINGLE 3187 : 60905 FRMNGTN8 - 62256 CSTL RK8 CKT: 1    56.5    56.3    48.0    48.0   121.2   120.9     0.3
SINGLE 1377 : 60650 WILMART8 - 60831 EASTWD28 CKT: 1    56.8    56.7    48.0    48.0   120.3   120.0     0.3
SINGLE 953  : 60107 W FARIB7 - 60792 WFARBLT8 CKT: 1    56.8    56.6    48.0    48.0   120.3   120.0     0.3
SINGLE 1464 : 60791 FARIBLT8 - 60792 WFARBLT8 CKT: 1    54.7    54.6    48.0    48.0   117.2   116.9     0.3
SINGLE 1697 : 61948 BYRON  5 - 61950 BYRON  3 CKT: 1    55.0    54.9    48.0    48.0   116.5   116.2     0.3
SINGLE 3113 : 60787 NOFIELD8 - 62256 CSTL RK8 CKT: 1    53.7    53.6    48.0    48.0   114.8   114.5     0.3
SINGLE 2903 : 60107 W FARIB7 - 62865 AIRTECH7 CKT: 1    53.4    53.2    48.0    48.0   112.8   112.4     0.4
SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    53.1   .....    48.0   .....   111.9   .....   *NEW*
SINGLE 1463 : 60790 FAIRPRK8 - 60792 WFARBLT8 CKT: 1    50.7    50.6    48.0    48.0   109.9   109.6     0.3
SINGLE 954  : 60107 W FARIB7 - 60792 WFARBLT8 CKT: P    46.4    46.3    48.0    48.0    98.1    97.9     0.2
SINGLE 952  : 60107 W FARIB7 - 60265 LOON TP7 CKT: C    46.2    46.2    48.0    48.0    97.4    97.4     0.0
795         : ** MULTIPLE CONTINGENCY **               .....    61.5   .....    48.0   .....   130.5  *ELIM*
            : 66550 GRANITF4 - 60150 MNVLTAP4 CKT: 1
            : 60148 MINVALY7 - 60149 MINVALT4 CKT: C
            : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1
            : 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1
            : 63054 PANTHER4 - 60742 PANTHER8 CKT: 1
810   C1    : ** MULTIPLE CONTINGENCY **               .....    61.3   .....    48.0   .....   130.1  *ELIM*
            : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1
            : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C
*** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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39) 60789 CIRCLTP8 - 60790 FAIRPRK8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   100.6   100.1    48.0    48.0   207.8   206.8     1.0
SINGLE 2902 : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1    77.1    77.0    48.0    48.0   159.3   159.0     0.3
SINGLE 947  : 60105 PR ISLD3 - 60106 PR ISLD5 CKT: 1    77.1    77.0    48.0    48.0   159.2   159.0     0.2
SINGLE 1459 : 60787 NOFIELD8 - 60801 CNFLSTR8 CKT: 1    76.6    76.5    48.0    48.0   158.2   158.1     0.1
SPC-PRI/CTF5: ** MULTIPLE CONTINGENCY **                76.4    76.3    48.0    48.0   157.9   157.7     0.2
            : 63071 SPRNGCK5 - 60106 PR ISLD5 CKT: 1
            : 63071 SPRNGCK5 - 60103 CANNFLS5 CKT: 1
SINGLE 1465 : 60791 FARIBLT8 - 60794 NRSTRND8 CKT: P    76.6    76.4    48.0    48.0   157.3   157.0     0.3
SINGLE 3188 : 60905 FRMNGTN8 - 62259 LKMARN 8 CKT: 1    76.0    75.9    48.0    48.0   157.0   156.8     0.2
SINGLE 3118 : 60794 NRSTRND8 - 62389 KENYON 8 CKT: 1    75.9    75.7    48.0    48.0   156.0   155.7     0.3
SINGLE 955  : 60107 W FARIB7 - 61952 S FARIB5 CKT: 1    75.7    75.4    48.0    48.0   155.7   155.2     0.5
SINGLE 1699 : 61952 S FARIB5 - 61964 OWATNNA5 CKT: 1    75.7    75.4    48.0    48.0   155.7   155.2     0.5
SINGLE 946  : 60104 CANNFLS7 - 60801 CNFLSTR8 CKT: 1    75.2    75.1    48.0    48.0   155.4   155.1     0.3
SINGLE 3120 : 60797 KENYNTP8 - 62389 KENYON 8 CKT: 1    75.6    75.4    48.0    48.0   155.4   155.0     0.4
700    1    : ** MULTIPLE CONTINGENCY **                74.7    74.5    48.0    48.0   153.7   153.3     0.4
            : 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1
            : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
            : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1
IVH-BLL/RRK3: ** MULTIPLE CONTINGENCY **                74.5    74.4    48.0    48.0   153.4   153.1     0.3
            : 60217 INVRHLS3 - 60192 BLUE LK3 CKT: 1
            : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1
SINGLE 1468 : 60796 KENYON 8 - 60797 KENYNTP8 CKT: 1    74.3    74.1    48.0    48.0   152.8   152.4     0.4
SINGLE 1197 : 60217 INVRHLS3 - 60218 INVRHLS7 CKT: 1    73.8    73.7    48.0    48.0   151.9   151.6     0.3
SINGLE 1469 : 60796 KENYON 8 - 60819 CHERYTP8 CKT: 1    73.7    73.5    48.0    48.0   151.5   151.2     0.3
SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    73.4    73.2    48.0    48.0   150.9   150.6     0.3
SINGLE 1480 : 60818 ZUMBRTA8 - 60819 CHERYTP8 CKT: 1    73.2    73.0    48.0    48.0   150.4   150.1     0.3
SINGLE 1698 : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1    72.6    72.4    48.0    48.0   149.4   148.9     0.5
BYN-WOW/KAN5: ** MULTIPLE CONTINGENCY **                72.5    72.3    48.0    48.0   149.2   148.6     0.6
            : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1
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	: 61161 BYRON 8 - 60799 KASSON 8 CKT: 1								
SINGLE 2925	: 60160 SHERCO 3 - 60000 SHERC31G CKT: 1	72.5	72.3	48.0	48.0	149.1	148.7	0.4
SINGLE 2926	: 60160 SHERCO 3 - 60001 SHERC32G CKT: 1	72.5	72.3	48.0	48.0	149.1	148.8	0.3
SINGLE 2898	: 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1	72.1	72.0	48.0	48.0	148.6	148.3	0.3
SINGLE 945	: 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1	72.1	71.9	48.0	48.0	148.5	148.3	0.2
SINGLE 2937	: 60186 AS KING3 - 60006 KING 31G CKT: 1	72.0	71.8	48.0	48.0	148.0	147.7	0.3
SINGLE 2900	: 60105 PR ISLD3 - 60003 PR IS31G CKT: 1	71.9	71.7	48.0	48.0	147.9	147.6	0.3
SINGLE 2920	: 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1	71.8	71.6	48.0	48.0	147.7	147.4	0.3
SINGLE 2901	: 60105 PR ISLD3 - 60004 PR IS32G CKT: 1	71.8	71.7	48.0	48.0	147.7	147.4	0.3
SINGLE 3013	: 60342 WHAST 7 - 62258 WHASTNG8 CKT: 1	71.7	71.6	48.0	48.0	147.6	147.4	0.2
705 1	: ** MULTIPLE CONTINGENCY **	71.5	71.4	48.0	48.0	147.1	146.8	0.3
	: 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1							
	: 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1							
	: 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 1							
SINGLE 944	: 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1	71.4	71.3	48.0	48.0	147.0	146.7	0.3
SINGLE 1142	: 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1	71.4	71.3	48.0	48.0	146.9	146.6	0.3
BLL-EDP/PKL3	: ** MULTIPLE CONTINGENCY **	71.3	71.1	48.0	48.0	146.6	146.3	0.3
	: 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1							
	: 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1							
SINGLE 964	: 60110 WILMART7 - 60194 CARVRCO7 CKT: 1	71.2	71.1	48.0	48.0	146.5	146.2	0.3
SINGLE 3364	: 61948 BYRON 5 - 61906 MAPLE LF CKT: 1	70.8	70.6	48.0	48.0	145.6	145.3	0.3
SINGLE 1200	: 60218 INVRHLS7 - 60223 KOCHREF7 CKT: 1	70.7	70.6	48.0	48.0	145.5	145.2	0.3
SINGLE 3144	: 60817 BURNSID8 - 62387 SPRNGCK8 CKT: 1	70.7	70.5	48.0	48.0	145.4	145.2	0.2
BLL-PRI/IVH3	: ** MULTIPLE CONTINGENCY **	70.6	70.4	48.0	48.0	145.2	144.9	0.3
	: 60192 BLUE LK3 - 60105 PR ISLD3 CKT: 1							
	: 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1							
SINGLE 2941	: 60200 BLK DG27 - 60013 BLK D73G CKT: 1	70.4	70.3	48.0	48.0	144.9	144.6	0.3
SINGLE 1202	: 60218 INVRHLS7 - 61478 INV TR1Y CKT: 1	70.4	70.2	48.0	48.0	144.8	144.5	0.3
SINGLE 3395	: 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1	70.4	70.2	48.0	48.0	144.7	144.4	0.3
PRI-RRK/RRK3	: ** MULTIPLE CONTINGENCY **	70.3	70.2	48.0	48.0	144.7	144.4	0.3
	: 60105 PR ISLD3 - 60236 REDROCK3 CKT: 1							
	: 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2							
SINGLE 1126	: 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1	70.3	70.2	48.0	48.0	144.6	144.3	0.3
SINGLE 2961	: 60240 RIVRSID7 - 60008 RIVRS78G CKT: 1	70.3	70.1	48.0	48.0	144.5	144.2	0.3
022 1	: ** MULTIPLE CONTINGENCY **	70.1	70.0	48.0	48.0	144.2	143.9	0.3
	: 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1							
	: 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1							
	: 60202 COON CK3 - 60251 TERMINL3 CKT: 1							
	: 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1							
	: 60251 TERMINL3 - 61492 TERMID1Y CKT: 1							
	: 61492 TERMID1Y - 60252 TERMINL7 CKT: 1							
	: 61492 TERMID1Y - 61187 TERTER19 CKT: 1							
	: 60251 TERMINL3 - 61491 TERMID2Y CKT: 1							
	: 61491 TERMID2Y - 60252 TERMINL7 CKT: 1							
	: 61491 TERMID2Y - 61188 TERTER29 CKT: 1							
SINGLE 3233	: 60982 ALMA 8 - 68874 ALMA 8 CKT: 1	70.0	69.9	48.0	48.0	144.0	143.8	0.2
SINGLE 2943	: 60200 BLK DG27 - 62230 PILOTKB7 CKT: 1	70.0	69.8	48.0	48.0	144.0	143.7	0.3
SINGLE 1199	: 60218 INVRHLS7 - 60220 INVRGRV7 CKT: 1	70.0	69.8	48.0	48.0	143.9	143.6	0.3
SINGLE 1587	: 60982 ALMA 8 - 60983 NELSON 8 CKT: 1	69.9	69.8	48.0	48.0	143.9	143.6	0.3
SINGLE 3153	: 60826 TRAVRSE8 - 62350 TRAVERS8 CKT: 1	70.0	69.8	48.0	48.0	143.9	143.6	0.3
SINGLE 2951	: 60214 HIBRDGE7 - 60010 HIBRD76G CKT: 1	70.0	69.8	48.0	48.0	143.9	143.6	0.3
SINGLE 1121	: 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1	69.9	69.7	48.0	48.0	143.7	143.4	0.3
SCO-SSK/CAR7	: ** MULTIPLE CONTINGENCY **	69.8	69.7	48.0	48.0	143.7	143.3	0.4
	: 60244 SCOTTCO7 - 62975 SHAKOPE7 CKT: 1							
	: 60244 SCOTTCO7 - 60243 SCOTTAP7 CKT: 1							
	: 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1							
	: 60243 SCOTTAP7 - 62666 GLNDALE7 CKT: 1							
SINGLE 1120	: 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C	69.9	69.7	48.0	48.0	143.7	143.4	0.3
SINGLE 2919	: 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1	69.8	69.7	48.0	48.0	143.6	143.3	0.3
SINGLE 29	: 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1	69.8	69.6	48.0	48.0	143.5	143.2	0.3
022 3	: ** MULTIPLE CONTINGENCY **	69.8	69.6	48.0	48.0	143.5	143.2	0.3
	: 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1							
	: 60202 COON CK3 - 60251 TERMINL3 CKT: 1							

	: 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1							
	: 60251 TERMINL3 - 61491 TERMID2Y CKT: 1							
	: 61491 TERMID2Y - 60252 TERMINL7 CKT: 1							
	: 61491 TERMID2Y - 61188 TERTER29 CKT: 1							
SINGLE 2971	: 60276 AIRLAKE7 - 62234 LKMARN 7 CKT: 1	69.8	69.6	48.0	48.0	143.5	143.2	0.3
SINGLE 2960	: 60240 RIVRSID7 - 60007 RIVRS76G CKT: 1	69.8	69.6	48.0	48.0	143.5	143.2	0.3
022 5	: ** MULTIPLE CONTINGENCY **	69.7	69.6	48.0	48.0	143.4	143.1	0.3
	: 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1							
	: 60202 COON CK3 - 60251 TERMINL3 CKT: 1							
	: 60251 TERMINL3 - 61492 TERMID1Y CKT: 1							
	: 61492 TERMID1Y - 60252 TERMINL7 CKT: 1							
	: 61492 TERMID1Y - 61187 TERTER19 CKT: 1							
	: 60251 TERMINL3 - 61491 TERMID2Y CKT: 1							
	: 61491 TERMID2Y - 60252 TERMINL7 CKT: 1							
	: 61491 TERMID2Y - 61188 TERTER29 CKT: 1							
BASE CASE	: ** BASE CASE **	68.7	68.6	48.0	48.0	141.3	141.0	0.3
SINGLE 3122	: 60802 CANFLS 8 - 62390 SCANNON8 CKT: 1	67.7	67.5	48.0	48.0	139.1	138.8	0.3
SINGLE 956	: 60108 WILMART3 - 60110 WILMART7 CKT: 1	67.6	67.5	48.0	48.0	139.0	138.8	0.2
SINGLE 957	: 60108 WILMART3 - 60110 WILMART7 CKT: 2	67.6	67.4	48.0	48.0	138.9	138.7	0.2
SINGLE 3123	: 60803 MIESTAP8 - 62238 MIESVIL8 CKT: 1	67.6	67.4	48.0	48.0	138.9	138.6	0.3
PRI-BYN/RRK3	: ** MULTIPLE CONTINGENCY **	67.5	67.5	48.0	48.0	138.8	138.8	0.0
	: 60105 PR ISLD3 - 61950 BYRON 3 CKT: 1							
	: 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2							
ASK-RRK/ECL3	: ** MULTIPLE CONTINGENCY **	67.3	67.2	48.0	48.0	138.5	138.2	0.3
	: 60186 AS KING3 - 60236 REDROCK3 CKT: 1							
	: 60186 AS KING3 - 60304 EAU CL 3 CKT: 1							
	: 60304 EAU CL 3 - 39244 ARP 345 CKT: 1							
SINGLE 963	: 60110 WILMART7 - 60113 DOME 7 CKT: C	67.3	67.2	48.0	48.0	138.5	138.2	0.3
SINGLE 972	: 60113 DOME 7 - 60830 EASTWD18 CKT: P	67.4	67.2	48.0	48.0	138.5	138.2	0.3
SINGLE 1116	: 60186 AS KING3 - 60304 EAU CL 3 CKT: 1	67.2	67.0	48.0	48.0	138.1	137.8	0.3
SINGLE 3114	: 60788 VALLYTP8 - 62870 VLLYGRV8 CKT: 1	67.2	67.0	48.0	48.0	138.0	137.7	0.3
050 2	: ** MULTIPLE CONTINGENCY **	67.0	66.9	48.0	48.0	137.8	137.6	0.2
	: 60186 AS KING3 - 60304 EAU CL 3 CKT: 1							
	: 60304 EAU CL 3 - 39244 ARP 345 CKT: 1							
	: 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1							
SINGLE 1532	: 60897 LEBNON 8 - 60905 FRMNGTN8 CKT: 1	67.1	67.0	48.0	48.0	137.8	137.6	0.2
050 1	: ** MULTIPLE CONTINGENCY **	67.0	66.9	48.0	48.0	137.8	137.6	0.2
	: 60186 AS KING3 - 60304 EAU CL 3 CKT: 1							
	: 60304 EAU CL 3 - 39244 ARP 345 CKT: 1							
	: 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1							
	: 39901 COC DPC - 38342 COC 69 CKT: 1							
	: 38333 HLT 69 - 68821 MAUSTON CKT: 1							
SINGLE 1473	: 60801 CNFLSTR8 - 60802 CANFLS 8 CKT: 1	66.9	66.7	48.0	48.0	137.5	137.2	0.3
SINGLE 2904	: 60108 WILMART3 - 8001 G261-ST CKT: 1	66.7	66.5	48.0	48.0	137.1	136.8	0.3
SINGLE 2906	: 60110 WILMART7 - 8007 G261-CT2 CKT: 1	66.6	66.5	48.0	48.0	136.9	136.7	0.2
SINGLE 2905	: 60110 WILMART7 - 8006 G261-CT1 CKT: 1	66.6	66.5	48.0	48.0	136.9	136.7	0.2
SINGLE 3127	: 60805 WATRVIL8 - 62679 ELYSNTP8 CKT: 1	66.5	66.4	48.0	48.0	136.3	136.1	0.2
SINGLE 21	: 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1	66.2	66.2	48.0	48.0	136.1	135.9	0.2
SINGLE 968	: 60110 WILMART7 - 60830 EASTWD18 CKT: P	66.2	66.0	48.0	48.0	136.0	135.8	0.2
SINGLE 1462	: 60790 FAIRPRK8 - 60791 FARIBLT8 CKT: 1	66.0	65.8	48.0	48.0	136.0	135.7	0.3
SINGLE 3131	: 60808 EAGLELK8 - 62679 ELYSNTP8 CKT: 1	66.0	65.9	48.0	48.0	135.4	135.1	0.3
SINGLE 3129	: 60808 EAGLELK8 - 62347 EAGLELK8 CKT: 1	65.8	65.7	48.0	48.0	135.2	134.9	0.3
SINGLE 3187	: 60905 FRMNGTN8 - 62256 CSTL RK8 CKT: 1	65.6	65.4	48.0	48.0	135.2	135.0	0.2
SINGLE 3157	: 60831 EASTWD28 - 62347 EAGLELK8 CKT: 1	65.5	65.4	48.0	48.0	134.6	134.3	0.3
SINGLE 1377	: 60650 WILMART8 - 60831 EASTWD28 CKT: 1	65.0	64.9	48.0	48.0	133.7	133.4	0.3
SINGLE 953	: 60107 W FARIB7 - 60792 WFARBLT8 CKT: 1	65.0	64.9	48.0	48.0	133.6	133.3	0.3
SINGLE 3115	: 60789 CIRCLTP8 - 62872 FARIBLT8 CKT: 1	64.8	64.7	48.0	48.0	133.1	132.8	0.3
SINGLE 1464	: 60791 FARIBLT8 - 60792 WFARBLT8 CKT: 1	62.7	62.6	48.0	48.0	130.5	130.2	0.3
SINGLE 1697	: 61948 BYRON 5 - 61950 BYRON 3 CKT: 1	63.2	63.0	48.0	48.0	129.8	129.5	0.3
SINGLE 3113	: 60787 NOFIELD8 - 62256 CSTL RK8 CKT: 1	62.5	62.4	48.0	48.0	128.8	128.5	0.3
SINGLE 2903	: 60107 W FARIB7 - 62865 AIRTECH7 CKT: 1	61.7	61.5	48.0	48.0	126.4	126.0	0.4
SINGLE 959	: 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1	61.2	.....	48.0	.....	125.3	.....	*NEW*
SINGLE 1463	: 60790 FAIRPRK8 - 60792 WFARBLT8 CKT: 1	58.2	58.1	48.0	48.0	123.1	122.8	0.3

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  SINGLE 954  : 60107 W FARIB7 - 60792 WFARBLT8 CKT: P    54.2    54.1    48.0    48.0   111.6   111.3     0.3
  SINGLE 952  : 60107 W FARIB7 - 60265 LOON TP7 CKT: C    54.0    54.0    48.0    48.0   110.9   110.9     0.0
  715       2 : ** MULTIPLE CONTINGENCY **               .....    70.0   .....    48.0   .....   144.0  *ELIM*
              : 62666 GLNDALE7 - 60243 SCOTTAP7 CKT: 1
              : 60242 SAVAGE 7 - 62668 EGLCKTP7 CKT: 1
              : 62666 GLNDALE7 - 62672 GLNDALE8 CKT: 1
              : 60243 SCOTTAP7 - 60244 SCOTTCO7 CKT: 1
              : 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1
              : 60194 CARVRCO7 - 60931 CARVRCO8 CKT: 1
              : 60190 BLK DOG7 - 60242 SAVAGE 7 CKT: 1
              : 62668 EGLCKTP7 - 62975 SHAKOPE7 CKT: 1
              : 62975 SHAKOPE7 - 60244 SCOTTCO7 CKT: 1
              : 60244 SCOTTCO7 - 60890 SCOTTCO8 CKT: 2
  *** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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  40) 60790 FAIRPRK8 - 60792 WFARBLT8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  SINGLE 1464 : 60791 FARIBLT8 - 60792 WFARBLT8 CKT: 1   129.8   129.6    66.0    66.0   191.0   190.7     0.3
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    91.9    91.5    66.0    66.0   135.1   134.6     0.5
  SINGLE 1462 : 60790 FAIRPRK8 - 60791 FARIBLT8 CKT: 1    88.1    88.0    66.0    66.0   129.6   129.4     0.2
  SPC-PRI/CTF5: ** MULTIPLE CONTINGENCY **                75.1    75.0    66.0    66.0   112.8   112.7     0.1
              : 63071 SPRNGCK5 - 60106 PR ISLD5 CKT: 1
              : 63071 SPRNGCK5 - 60103 CANNFLS5 CKT: 1
  740     1   : ** MULTIPLE CONTINGENCY **                75.1    75.0    66.0    66.0   112.8   112.7     0.1
              : 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1
              : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1
              : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1
  SINGLE 947  : 60105 PR ISLD3 - 60106 PR ISLD5 CKT: 1    74.9    74.8    66.0    66.0   112.5   112.3     0.2
  SINGLE 2902 : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1    74.9    74.8    66.0    66.0   112.5   112.3     0.2
  SINGLE 946  : 60104 CANNFLS7 - 60801 CNFLSTR8 CKT: 1    71.7    71.6    66.0    66.0   107.7   107.6     0.1
  SINGLE 1699 : 61952 S FARIB5 - 61964 OWATNNA5 CKT: 1    71.6    71.5    66.0    66.0   107.2   106.9     0.3
  SINGLE 955  : 60107 W FARIB7 - 61952 S FARIB5 CKT: 1    71.6    71.5    66.0    66.0   107.2   106.9     0.3
  SINGLE 3188 : 60905 FRMNGTN8 - 62259 LKMARN 8 CKT: 1    71.1    71.0    66.0    66.0   106.8   106.7     0.1
  SINGLE 1459 : 60787 NOFIELD8 - 60801 CNFLSTR8 CKT: 1    70.7    70.6    66.0    66.0   106.2   106.1     0.1
  700     1   : ** MULTIPLE CONTINGENCY **                70.6    70.5    66.0    66.0   105.7   105.5     0.2
              : 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1
              : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
              : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1
  IVH-BLL/RRK3: ** MULTIPLE CONTINGENCY **                70.5    70.4    66.0    66.0   105.5   105.4     0.1
              : 60217 INVRHLS3 - 60192 BLUE LK3 CKT: 1
              : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1
  SINGLE 1197 : 60217 INVRHLS3 - 60218 INVRHLS7 CKT: 1    69.9    69.8    66.0    66.0   104.7   104.5     0.2
  SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    69.8    69.6    66.0    66.0   104.4   104.2     0.2
  SINGLE 1698 : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1    69.4    69.2    66.0    66.0   103.9   103.6     0.3
  SINGLE 3013 : 60342 WHAST  7 - 62258 WHASTNG8 CKT: 1    69.3    69.2    66.0    66.0   103.8   103.6     0.2
  BYN-WOW/KAN5: ** MULTIPLE CONTINGENCY **                69.3    69.1    66.0    66.0   103.7   103.4     0.3
              : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1
              : 61161 BYRON  8 - 60799 KASSON 8 CKT: 1
  SINGLE 2925 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1    69.1    69.0    66.0    66.0   103.4   103.2     0.2
  SINGLE 2926 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1    69.1    69.0    66.0    66.0   103.4   103.2     0.2
  SINGLE 2898 : 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1    68.9    68.8    66.0    66.0   103.3   103.1     0.2
  SINGLE 945  : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1    68.9    68.8    66.0    66.0   103.3   103.1     0.2
  740     2   : ** MULTIPLE CONTINGENCY **                68.9    68.8    66.0    66.0   103.3   103.1     0.2
              : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1
              : 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1
  SINGLE 2900 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1    69.0    68.9    66.0    66.0   103.2   103.0     0.2
  SINGLE 2901 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1    68.9    68.8    66.0    66.0   103.1   102.9     0.2
  SINGLE 2937 : 60186 AS KING3 - 60006 KING 31G CKT: 1    68.8    68.7    66.0    66.0   103.0   102.8     0.2
  SINGLE 2920 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1    68.7    68.5    66.0    66.0   102.7   102.5     0.2
  SINGLE 944  : 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1    68.5    68.4    66.0    66.0   102.5   102.3     0.2
  SINGLE 1142 : 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1    68.5    68.3    66.0    66.0   102.4   102.2     0.2
  SINGLE 964  : 60110 WILMART7 - 60194 CARVRCO7 CKT: 1    68.3    68.2    66.0    66.0   102.2   102.0     0.2
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705 1 :	** MULTIPLE CONTINGENCY **	68.2	68.1	66.0	66.0	102.1	101.9	0.2
:	60192 BLUE LK3 - 60233 PARKERS3 CKT: 1							
:	60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1							
:	60262 EDEN PR3 - 60263 EDEN PR7 CKT: 1							
SINGLE 3364 :	61948 BYRON 5 - 61906 MAPLE LF CKT: 1	68.1	68.0	66.0	66.0	101.8	101.6	0.2
BLL-EDP/PKL3:	** MULTIPLE CONTINGENCY **	68.1	68.0	66.0	66.0	101.8	101.7	0.1
:	60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1							
:	60192 BLUE LK3 - 60233 PARKERS3 CKT: 1							
SINGLE 3233 :	60982 ALMA 8 - 68874 ALMA 8 CKT: 1	68.0	67.9	66.0	66.0	101.7	101.6	0.1
SINGLE 1200 :	60218 INVRHLS7 - 60223 KOCHREF7 CKT: 1	68.0	67.9	66.0	66.0	101.7	101.5	0.2
BLL-PRI/IVH3:	** MULTIPLE CONTINGENCY **	67.9	67.8	66.0	66.0	101.6	101.4	0.2
:	60192 BLUE LK3 - 60105 PR ISLD3 CKT: 1							
:	60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1							
SINGLE 1587 :	60982 ALMA 8 - 60983 NELSON 8 CKT: 1	67.9	67.8	66.0	66.0	101.6	101.5	0.1
715 4 :	** MULTIPLE CONTINGENCY **	67.8	67.7	66.0	66.0	101.4	101.2	0.2
:	62666 GLNDALE7 - 60243 SCOTTAP7 CKT: 1							
:	62666 GLNDALE7 - 62672 GLNDALE8 CKT: 1							
:	60243 SCOTTAP7 - 60244 SCOTTCO7 CKT: 1							
:	60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1							
:	60194 CARVRCO7 - 60931 CARVRCO8 CKT: 1							
SINGLE 1126 :	60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1	67.7	67.6	66.0	66.0	101.3	101.1	0.2
SINGLE 3144 :	60817 BURNSID8 - 62387 SPRNGCK8 CKT: 1	67.7	67.6	66.0	66.0	101.3	101.1	0.2
SINGLE 1202 :	60218 INVRHLS7 - 61478 INV TR1Y CKT: 1	67.7	67.6	66.0	66.0	101.3	101.1	0.2
SINGLE 2941 :	60200 BLK DG27 - 60013 BLK D73G CKT: 1	67.7	67.5	66.0	66.0	101.2	101.1	0.1
SINGLE 3395 :	62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1	67.6	67.5	66.0	66.0	101.2	101.0	0.2
SINGLE 2961 :	60240 RIVRSID7 - 60008 RIVRS78G CKT: 1	67.6	67.5	66.0	66.0	101.1	100.9	0.2
BASE CASE :	** BASE CASE **	66.5	66.4	66.0	66.0	99.5	99.3	0.2
SINGLE 963 :	60110 WILMART7 - 60113 DOME 7 CKT: C	65.5	.....	66.0	.....	98.0	.....	*NEW*
SINGLE 1116 :	60186 AS KING3 - 60304 EAU CL 3 CKT: 1	65.5	65.4	66.0	66.0	97.9	97.8	0.1
PRI-BYN/RRK3:	** MULTIPLE CONTINGENCY **	65.4	.....	66.0	.....	97.8	.....	*NEW*
:	60105 PR ISLD3 - 61950 BYRON 3 CKT: 1							
:	60105 PR ISLD3 - 60236 REDROCK3 CKT: 2							
050 2 :	** MULTIPLE CONTINGENCY **	65.4	65.3	66.0	66.0	97.7	97.6	0.1
:	60186 AS KING3 - 60304 EAU CL 3 CKT: 1							
:	60304 EAU CL 3 - 39244 ARP 345 CKT: 1							
:	60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1							
050 1 :	** MULTIPLE CONTINGENCY **	65.4	65.3	66.0	66.0	97.7	97.6	0.1
:	60186 AS KING3 - 60304 EAU CL 3 CKT: 1							
:	60304 EAU CL 3 - 39244 ARP 345 CKT: 1							
:	60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1							
:	39901 COC DPC - 38342 COC 69 CKT: 1							
:	38333 HLT 69 - 68821 MAUSTON CKT: 1							
SINGLE 3187 :	60905 FRMNGTN8 - 62256 CSTL RK8 CKT: 1	64.9	64.8	66.0	66.0	97.3	97.2	0.1
SINGLE 2904 :	60108 WILMART3 - 8001 G261-ST CKT: 1	65.0	64.9	66.0	66.0	97.2	97.0	0.2
SINGLE 2905 :	60110 WILMART7 - 8006 G261-CT1 CKT: 1	65.0	64.8	66.0	66.0	97.1	96.9	0.2
SINGLE 2906 :	60110 WILMART7 - 8007 G261-CT2 CKT: 1	65.0	64.8	66.0	66.0	97.1	96.9	0.2
SINGLE 3127 :	60805 WATRVIL8 - 62679 ELYSNTP8 CKT: 1	64.9	64.8	66.0	66.0	96.8	96.7	0.1
SINGLE 21 :	34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1	64.6	64.6	66.0	66.0	96.6	96.5	0.1
SINGLE 968 :	60110 WILMART7 - 60830 EASTWD18 CKT: P	64.6	64.5	66.0	66.0	96.6	96.5	0.1
SINGLE 1480 :	60818 ZUMBRTA8 - 60819 CHERYTP8 CKT: 1	64.5	64.4	66.0	66.0	96.4	96.3	0.1
SINGLE 3131 :	60808 EAGLELK8 - 62679 ELYSNTP8 CKT: 1	64.5	64.4	66.0	66.0	96.3	96.2	0.1
SINGLE 3129 :	60808 EAGLELK8 - 62347 EAGLELK8 CKT: 1	64.4	64.3	66.0	66.0	96.2	96.0	0.2
SINGLE 1469 :	60796 KENYON 8 - 60819 CHERYTP8 CKT: 1	64.3	64.2	66.0	66.0	96.1	96.0	0.1
SINGLE 3115 :	60789 CIRCLTP8 - 62872 FARIBLT8 CKT: 1	65.2	65.1	66.0	66.0	95.9	95.7	0.2
SINGLE 3157 :	60831 EASTWD28 - 62347 EAGLELK8 CKT: 1	64.2	64.1	66.0	66.0	95.9	95.7	0.2
SINGLE 1468 :	60796 KENYON 8 - 60797 KENYNTP8 CKT: 1	64.0	63.9	66.0	66.0	95.7	95.6	0.1
SINGLE 1377 :	60650 WILMART8 - 60831 EASTWD28 CKT: 1	63.8	63.7	66.0	66.0	95.4	95.2	0.2
SINGLE 953 :	60107 W FARIB7 - 60792 WFARBLT8 CKT: 1	63.8	63.7	66.0	66.0	95.4	95.3	0.1
SINGLE 3120 :	60797 KENYNTP8 - 62389 KENYON 8 CKT: 1	63.6	63.5	66.0	66.0	95.0	94.9	0.1
SINGLE 3118 :	60794 NRSTRND8 - 62389 KENYON 8 CKT: 1	63.5	63.4	66.0	66.0	94.9	94.7	0.2
SINGLE 1465 :	60791 FARIBLT8 - 60794 NRSTRND8 CKT: P	63.2	63.2	66.0	66.0	94.5	94.4	0.1
SINGLE 3113 :	60787 NOFIELD8 - 62256 CSTL RK8 CKT: 1	63.1	63.0	66.0	66.0	94.5	94.3	0.2
SINGLE 1697 :	61948 BYRON 5 - 61950 BYRON 3 CKT: 1	62.4	62.3	66.0	66.0	93.3	93.2	0.1

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  SINGLE 2903 : 60107 W FARIB7 - 62865 AIRTECH7 CKT: 1    61.7    61.6    66.0    66.0    91.9    91.7     0.2
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    60.9    60.9    66.0    66.0    90.7    90.6     0.1

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  41) 60791 FARIBLT8 - 60792 WFARBLT8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  SINGLE 1463 : 60790 FAIRPRK8 - 60792 WFARBLT8 CKT: 1   131.7   131.5    47.0    47.0   272.1   271.7     0.4
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   100.2    99.8    47.0    47.0   206.9   206.1     0.8
  SPC-PRI/CTF5: ** MULTIPLE CONTINGENCY **                88.2    88.1    47.0    47.0   182.2   181.9     0.3
              : 63071 SPRNGCK5 - 60106 PR ISLD5 CKT: 1
              : 63071 SPRNGCK5 - 60103 CANNFLS5 CKT: 1
  740    1    : ** MULTIPLE CONTINGENCY **                88.2    88.1    47.0    47.0   182.2   181.9     0.3
              : 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1
              : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1
              : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1
  SINGLE 947  : 60105 PR ISLD3 - 60106 PR ISLD5 CKT: 1    86.7    86.6    47.0    47.0   179.2   179.0     0.2
  SINGLE 2902 : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1    86.8    86.6    47.0    47.0   179.2   179.0     0.2
  SINGLE 946  : 60104 CANNFLS7 - 60801 CNFLSTR8 CKT: 1    80.2    80.1    47.0    47.0   165.7   165.4     0.3
  SINGLE 1699 : 61952 S FARIB5 - 61964 OWATNNA5 CKT: 1    79.8    79.6    47.0    47.0   164.8   164.4     0.4
  SINGLE 955  : 60107 W FARIB7 - 61952 S FARIB5 CKT: 1    79.8    79.6    47.0    47.0   164.8   164.4     0.4
  700    1    : ** MULTIPLE CONTINGENCY **                78.1    77.9    47.0    47.0   161.2   160.9     0.3
              : 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1
              : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
              : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1
  SINGLE 3013 : 60342 WHAST  7 - 62258 WHASTNG8 CKT: 1    78.0    77.9    47.0    47.0   161.2   161.0     0.2
  IVH-BLL/RRK3: ** MULTIPLE CONTINGENCY **                78.0    77.8    47.0    47.0   161.1   160.8     0.3
              : 60217 INVRHLS3 - 60192 BLUE LK3 CKT: 1
              : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1
  SINGLE 3188 : 60905 FRMNGTN8 - 62259 LKMARN 8 CKT: 1    77.6    77.4    47.0    47.0   160.2   160.0     0.2
  SINGLE 1698 : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1    77.3    77.1    47.0    47.0   159.7   159.2     0.5
  SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    77.3    77.2    47.0    47.0   159.7   159.4     0.3
  SINGLE 1197 : 60217 INVRHLS3 - 60218 INVRHLS7 CKT: 1    77.2    77.1    47.0    47.0   159.6   159.3     0.3
  BYN-WOW/KAN5: ** MULTIPLE CONTINGENCY **                77.2    76.9    47.0    47.0   159.4   158.9     0.5
              : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1
              : 61161 BYRON  8 - 60799 KASSON 8 CKT: 1
  SINGLE 2900 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1    77.0    76.8    47.0    47.0   159.0   158.7     0.3
  SINGLE 2901 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1    76.9    76.8    47.0    47.0   158.8   158.5     0.3
  SINGLE 3159 : 60833 SPRCRKT8 - 62384 BLVDMTP8 CKT: 1    76.8    76.7    47.0    47.0   158.7   158.5     0.2
  SINGLE 3160 : 60833 SPRCRKT8 - 62387 SPRNGCK8 CKT: 1    76.8    76.7    47.0    47.0   158.7   158.5     0.2
  SINGLE 2926 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1    76.7    76.5    47.0    47.0   158.4   158.1     0.3
  SINGLE 2925 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1    76.7    76.5    47.0    47.0   158.3   158.1     0.2
  SINGLE 1473 : 60801 CNFLSTR8 - 60802 CANFLS 8 CKT: 1    76.7    76.5    47.0    47.0   158.3   158.1     0.2
  SINGLE 3233 : 60982 ALMA   8 - 68874 ALMA 8   CKT: 1    76.5    76.4    47.0    47.0   158.1   157.9     0.2
  SINGLE 2937 : 60186 AS KING3 - 60006 KING 31G CKT: 1    76.4    76.3    47.0    47.0   157.9   157.6     0.3
  SINGLE 1587 : 60982 ALMA   8 - 60983 NELSON 8 CKT: 1    76.4    76.3    47.0    47.0   157.8   157.5     0.3
  SINGLE 2898 : 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1    76.3    76.2    47.0    47.0   157.6   157.3     0.3
  740    2    : ** MULTIPLE CONTINGENCY **                76.3    76.2    47.0    47.0   157.6   157.3     0.3
              : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1
              : 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1
  SINGLE 945  : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1    76.2    76.1    47.0    47.0   157.5   157.3     0.2
  SINGLE 2920 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1    76.2    76.0    47.0    47.0   157.4   157.1     0.3
  SINGLE 944  : 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1    76.1    76.0    47.0    47.0   157.2   157.0     0.2
  SINGLE 1142 : 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1    76.1    76.0    47.0    47.0   157.2   156.9     0.3
  WEH-CHE/HAS7: ** MULTIPLE CONTINGENCY **                76.0    75.9    47.0    47.0   157.1   156.8     0.3
              : 60342 WHAST  7 - 60201 CHEMOLT7 CKT: 1
              : 62258 WHASTNG8 - 60915 HASTING8 CKT: 1
  SINGLE 964  : 60110 WILMART7 - 60194 CARVRCO7 CKT: 1    75.9    75.8    47.0    47.0   156.8   156.5     0.3
  SINGLE 3190 : 60915 HASTING8 - 62258 WHASTNG8 CKT: 1    75.9    75.8    47.0    47.0   156.8   156.5     0.3
  SINGLE 1459 : 60787 NOFIELD8 - 60801 CNFLSTR8 CKT: 1    75.9    75.8    47.0    47.0   156.7   156.5     0.2
  SINGLE 3364 : 61948 BYRON  5 - 61906 MAPLE LF CKT: 1    75.8    75.6    47.0    47.0   156.5   156.3     0.2
  BLL-PRI/IVH3: ** MULTIPLE CONTINGENCY **                75.7    75.5    47.0    47.0   156.3   155.9     0.4
              : 60192 BLUE LK3 - 60105 PR ISLD3 CKT: 1
              : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
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SINGLE 1486 : 60825 WABASHA8 - 60983 NELSON 8 CKT: 1    75.7    75.5    47.0    47.0   156.3   156.0     0.3
SINGLE 1200 : 60218 INVRHLS7 - 60223 KOCHREF7 CKT: 1    75.6    75.5    47.0    47.0   156.2   155.9     0.3
SINGLE 2971 : 60276 AIRLAKE7 - 62234 LKMARN 7 CKT: 1    75.4    75.3    47.0    47.0   155.8   155.5     0.3
SINGLE 3122 : 60802 CANFLS 8 - 62390 SCANNON8 CKT: 1    75.4    75.3    47.0    47.0   155.8   155.6     0.2
SINGLE 1126 : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1    75.4    75.2    47.0    47.0   155.7   155.4     0.3
705       1 : ** MULTIPLE CONTINGENCY **                75.3    75.2    47.0    47.0   155.5   155.3     0.2
            : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1
            : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
            : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 1
SINGLE 1202 : 60218 INVRHLS7 - 61478 INV TR1Y CKT: 1    75.2    75.1    47.0    47.0   155.4   155.1     0.3
BLL-EDP/PKL3: ** MULTIPLE CONTINGENCY **                75.2    75.0    47.0    47.0   155.3   155.0     0.3
            : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
            : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1
SINGLE 3395 : 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1    75.1    75.0    47.0    47.0   155.2   154.9     0.3
SINGLE 2961 : 60240 RIVRSID7 - 60008 RIVRS78G CKT: 1    75.1    74.9    47.0    47.0   155.1   154.8     0.3
SINGLE 2941 : 60200 BLK DG27 - 60013 BLK D73G CKT: 1    75.0    74.9    47.0    47.0   155.0   154.7     0.3
715       4 : ** MULTIPLE CONTINGENCY **                75.0    74.9    47.0    47.0   155.0   154.7     0.3
            : 62666 GLNDALE7 - 60243 SCOTTAP7 CKT: 1
            : 62666 GLNDALE7 - 62672 GLNDALE8 CKT: 1
            : 60243 SCOTTAP7 - 60244 SCOTTCO7 CKT: 1
            : 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1
            : 60194 CARVRCO7 - 60931 CARVRCO8 CKT: 1
022       1 : ** MULTIPLE CONTINGENCY **                75.0    74.9    47.0    47.0   155.0   154.7     0.3
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
            : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
            : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
            : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
SINGLE 3145 : 60818 ZUMBRTA8 - 62380 WELLSCK8 CKT: 1    75.0    74.9    47.0    47.0   155.0   154.8     0.2
BASE CASE   : **       BASE CASE      **                74.0    73.9    47.0    47.0   152.9   152.6     0.3
SINGLE 3149 : 60821 MAZEPPA8 - 62382 LENA TP8 CKT: 1    72.9    72.8    47.0    47.0   150.7   150.4     0.3
SINGLE 972  : 60113 DOME   7 - 60830 EASTWD18 CKT: P    72.9    72.8    47.0    47.0   150.6   150.3     0.3
SINGLE 3123 : 60803 MIESTAP8 - 62238 MIESVIL8 CKT: 1    72.9    72.7    47.0    47.0   150.5   150.2     0.3
050    1    : ** MULTIPLE CONTINGENCY **                72.9    72.7    47.0    47.0   150.5   150.3     0.2
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
            : 39901 COC DPC  - 38342 COC 69   CKT: 1
            : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
050    2    : ** MULTIPLE CONTINGENCY **                72.9    72.8    47.0    47.0   150.5   150.3     0.2
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
SINGLE 963  : 60110 WILMART7 - 60113 DOME   7 CKT: C    72.9    72.8    47.0    47.0   150.5   150.3     0.2
SINGLE 2899 : 60104 CANNFLS7 - 62235 EMPIRE 7 CKT: 1    72.7    72.5    47.0    47.0   150.1   149.8     0.3
PRI-RRK/RRK3: ** MULTIPLE CONTINGENCY **                72.6    72.5    47.0    47.0   150.0   149.7     0.3
            : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 1
            : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
SINGLE 3148 : 60820 LENATAP8 - 62382 LENA TP8 CKT: 1    72.5    72.3    47.0    47.0   149.7   149.4     0.3
SINGLE 3115 : 60789 CIRCLTP8 - 62872 FARIBLT8 CKT: 1    72.5    72.4    47.0    47.0   149.7   149.5     0.2
SINGLE 1481 : 60818 ZUMBRTA8 - 60820 LENATAP8 CKT: 1    72.5    72.3    47.0    47.0   149.7   149.4     0.3
PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                72.4    72.4    47.0    47.0   149.6   149.5     0.1
            : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
            : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
SINGLE 2904 : 60108 WILMART3 -  8001 G261-ST  CKT: 1    72.2    72.1    47.0    47.0   149.2   148.9     0.3
SINGLE 2905 : 60110 WILMART7 -  8006 G261-CT1 CKT: 1    72.2    72.1    47.0    47.0   149.2   148.9     0.3
SINGLE 2906 : 60110 WILMART7 -  8007 G261-CT2 CKT: 1    72.2    72.1    47.0    47.0   149.2   148.9     0.3
SINGLE 1467 : 60795 KENYNVL8 - 60797 KENYNTP8 CKT: 1    72.1    72.0    47.0    47.0   148.9   148.7     0.2
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SINGLE 3127 : 60805 WATRVIL8 - 62679 ELYSNTP8 CKT: 1	72.3	72.2	47.0	47.0	148.8	148.6	0.2
SINGLE 968 : 60110 WILMART7 - 60830 EASTWD18 CKT: P	71.9	71.8	47.0	47.0	148.5	148.3	0.2
SINGLE 3113 : 60787 NOFIELD8 - 62256 CSTL RK8 CKT: 1	71.9	71.8	47.0	47.0	148.5	148.3	0.2
SINGLE 21 : 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1	71.8	71.8	47.0	47.0	148.4	148.2	0.2
SINGLE 3131 : 60808 EAGLELK8 - 62679 ELYSNTP8 CKT: 1	71.8	71.7	47.0	47.0	148.1	147.8	0.3
SINGLE 3129 : 60808 EAGLELK8 - 62347 EAGLELK8 CKT: 1	71.7	71.6	47.0	47.0	147.8	147.6	0.2
SINGLE 3157 : 60831 EASTWD28 - 62347 EAGLELK8 CKT: 1	71.4	71.3	47.0	47.0	147.4	147.1	0.3
SINGLE 953 : 60107 W FARIB7 - 60792 WFARBLT8 CKT: 1	71.1	70.9	47.0	47.0	146.8	146.5	0.3
SINGLE 1377 : 60650 WILMART8 - 60831 EASTWD28 CKT: 1	71.0	70.9	47.0	47.0	146.7	146.4	0.3
SINGLE 1697 : 61948 BYRON 5 - 61950 BYRON 3 CKT: 1	69.4	69.3	47.0	47.0	143.4	143.1	0.3
SINGLE 2903 : 60107 W FARIB7 - 62865 AIRTECH7 CKT: 1	69.0	68.9	47.0	47.0	142.0	141.7	0.3
SINGLE 959 : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1	67.6	67.5	47.0	47.0	139.0	138.9	0.1
SINGLE 954 : 60107 W FARIB7 - 60792 WFARBLT8 CKT: P	62.6	62.5	47.0	47.0	129.6	129.4	0.2
SINGLE 1480 : 60818 ZUMBRTA8 - 60819 CHERYTP8 CKT: 1	62.4	62.4	47.0	47.0	129.0	128.9	0.1
SINGLE 1457 : 60786 DUNDAS 8 - 60787 NOFIELD8 CKT: 1	62.1	62.1	47.0	47.0	128.4	128.2	0.2
SINGLE 952 : 60107 W FARIB7 - 60265 LOON TP7 CKT: C	62.1	62.1	47.0	47.0	128.3	128.3	0.0
SINGLE 1469 : 60796 KENYON 8 - 60819 CHERYTP8 CKT: 1	61.2	61.1	47.0	47.0	126.4	126.3	0.1
SINGLE 1468 : 60796 KENYON 8 - 60797 KENYNTP8 CKT: 1	59.7	59.7	47.0	47.0	123.4	123.3	0.1
SINGLE 1276 : 60265 LOON TP7 - 60830 EASTWD18 CKT: P	59.6	59.6	47.0	47.0	123.1	123.2	-0.1
SINGLE 3120 : 60797 KENYNTP8 - 62389 KENYON 8 CKT: 1	56.9	56.8	47.0	47.0	117.4	117.3	0.1
SINGLE 1458 : 60786 DUNDAS 8 - 60788 VALLYTP8 CKT: 1	56.7	56.6	47.0	47.0	117.1	116.9	0.2
SINGLE 3118 : 60794 NRSTRND8 - 62389 KENYON 8 CKT: 1	56.1	56.1	47.0	47.0	115.9	115.8	0.1
SINGLE 1460 : 60788 VALLYTP8 - 60789 CIRCLTP8 CKT: 1	55.6	55.6	47.0	47.0	114.8	114.6	0.2
SINGLE 1465 : 60791 FARIBLT8 - 60794 NRSTRND8 CKT: P	54.7	54.6	47.0	47.0	113.0	112.9	0.1
SINGLE 1461 : 60789 CIRCLTP8 - 60790 FAIRPRK8 CKT: 1	53.7	53.6	47.0	47.0	110.7	110.5	0.2
SINGLE 1462 : 60790 FAIRPRK8 - 60791 FARIBLT8 CKT: 1	52.0	51.9	47.0	47.0	107.3	107.1	0.2

42) 60809 SJA SWS8 - 60709 STJMSMU8 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 959 : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1	70.2	69.7	36.0	36.0	196.5	194.7	1.8
SINGLE 28 : 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1	44.5	44.2	36.0	36.0	123.0	122.0	1.0
SINGLE 450 : 34280 TRUMANT8 - 61934 RUTLAND CKT: 1	41.6	41.3	36.0	36.0	114.8	114.1	0.7
SINGLE 383 : 34231 MT LAKE8 - 34281 MTLAKET8 CKT: 1	40.6	40.4	36.0	36.0	112.1	111.5	0.6
SINGLE 401 : 34248 TRUMANM8 - 34249 TRUMAN 8 CKT: 1	40.2	39.9	36.0	36.0	110.6	109.9	0.7
SINGLE 402 : 34248 TRUMANM8 - 34280 TRUMANT8 CKT: 1	40.2	40.0	36.0	36.0	110.6	109.9	0.7
SINGLE 403 : 34249 TRUMAN 8 - 62799 LWSVLTP8 CKT: 1	39.8	39.6	36.0	36.0	109.5	108.8	0.7
SINGLE 381 : 34230 COMFREY8 - 34281 MTLAKET8 CKT: 1	39.6	39.4	36.0	36.0	109.2	108.6	0.6
SINGLE 380 : 34230 COMFREY8 - 34240 DOTSON 8 CKT: 1	39.1	38.9	36.0	36.0	107.8	107.2	0.6
SINGLE 3197 : 60934 WATOWAN8 - 62804 SVEADTP8 CKT: 1	39.1	39.0	36.0	36.0	107.6	107.4	0.2
SINGLE 405 : 34250 LEWISVL8 - 62799 LWSVLTP8 CKT: 1	39.1	38.9	36.0	36.0	107.5	106.8	0.7
LAKF-FOX DBL: ** MULTIPLE CONTINGENCY **	38.6	38.3	36.0	36.0	106.4	105.5	0.9
: 34007 LAKEFLD5 - 34008 FOX LK 5 CKT: 1							
: 34007 LAKEFLD5 - 34008 FOX LK 5 CKT: 2							
SINGLE 3200 : 60935 BUTRFLD8 - 62804 SVEADTP8 CKT: 1	38.6	38.5	36.0	36.0	106.3	105.9	0.4
SINGLE 384 : 34231 MT LAKE8 - 60935 BUTRFLD8 CKT: 1	38.4	38.3	36.0	36.0	105.4	105.0	0.4
SINGLE 39 : 34012 FOXLAKE8 - 34275 WELCOMT8 CKT: 1	38.2	37.9	36.0	36.0	105.1	104.4	0.7
SINGLE 404 : 34250 LEWISVL8 - 34267 HANSKAT8 CKT: 1	37.9	37.7	36.0	36.0	104.9	104.3	0.6
SINGLE 441 : 34275 WELCOMT8 - 61942 10TH STR CKT: 1	37.7	37.5	36.0	36.0	103.8	103.1	0.7
SINGLE 393 : 34240 DOTSON 8 - 62065 DOTSON 8 CKT: 1	37.2	36.9	36.0	36.0	102.6	101.8	0.8
SINGLE 1722 : 62065 DOTSON 8 - 62066 LVNWRTH8 CKT: 1	36.6	36.4	36.0	36.0	100.9	100.2	0.7
SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1	36.0	35.9	36.0	36.0	99.7	99.1	0.6
SINGLE 1694 : 61934 RUTLAND - 61942 10TH STR CKT: 1	36.2	35.9	36.0	36.0	99.6	98.9	0.7
SINGLE 2925 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1	35.7	35.5	36.0	36.0	98.5	97.9	0.6
SINGLE 2926 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1	35.7	35.5	36.0	36.0	98.5	97.9	0.6
SINGLE 1723 : 62066 LVNWRTH8 - 62068 ALBIN 8 CKT: 1	35.7	35.5	36.0	36.0	98.4	97.7	0.7
SINGLE 406 : 34251 MADLIAJ8 - 34267 HANSKAT8 CKT: 1	35.8	35.5	36.0	36.0	98.3	97.3	1.0
SINGLE 1695 : 61936 FAIRMONT - 61942 10TH STR CKT: 2	35.5	35.3	36.0	36.0	97.8	97.2	0.6
SINGLE 372 : 34225 HERONLK8 - 62801 SSTORDN8 CKT: 1	35.4	35.2	36.0	36.0	97.7	97.2	0.5
SINGLE 2920 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1	35.4	35.1	36.0	36.0	97.7	96.9	0.8
SINGLE 2937 : 60186 AS KING3 - 60006 KING 31G CKT: 1	35.4	35.0	36.0	36.0	97.6	96.7	0.9
SINGLE 373 : 34226 STORDEN8 - 62791 JFFRSTP8 CKT: 1	35.3	35.1	36.0	36.0	97.4	96.9	0.5
SINGLE 374 : 34226 STORDEN8 - 62801 SSTORDN8 CKT: 1	35.4	35.2	36.0	36.0	97.4	96.8	0.6

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SINGLE 2900 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1    35.2    35.0    36.0    36.0    97.3    96.7     0.6
SINGLE 2901 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1    35.1    35.0    36.0    36.0    97.2    96.6     0.6
SINGLE 944  : 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1    35.2    34.9    36.0    36.0    97.1    96.3     0.8
SINGLE 1142 : 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1    35.2    34.9    36.0    36.0    97.1    96.3     0.8
SINGLE 2905 : 60110 WILMART7 -  8006 G261-CT1 CKT: 1    35.0    34.8    36.0    36.0    96.7    96.1     0.6
SINGLE 2906 : 60110 WILMART7 -  8007 G261-CT2 CKT: 1    35.0    34.8    36.0    36.0    96.7    96.1     0.6
SINGLE 1986 : 62791 JFFRSTP8 - 62800 NSTORDN8 CKT: 1    35.0    34.8    36.0    36.0    96.6    96.0     0.6
BASE CASE   : **       BASE CASE      **                33.9    33.7    36.0    36.0    93.4    92.9     0.5
SINGLE 3153 : 60826 TRAVRSE8 - 62350 TRAVERS8 CKT: 1    32.9   .....    36.0   .....    90.5   .....   *NEW*
SINGLE 2706 : 34006 LAKEFLD3 -  3400 G164     CKT: 1    32.8   .....    36.0   .....    90.3   .....   *NEW*

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43) 60809 SJA SWS8 - 62805 STJAMES8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    72.4    71.8    36.0    36.0   200.4   198.7     1.7
SINGLE 28   : 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1    46.4    46.0    36.0    36.0   127.3   126.2     1.1
SINGLE 450  : 34280 TRUMANT8 - 61934 RUTLAND  CKT: 1    43.3    43.1    36.0    36.0   119.0   118.3     0.7
SINGLE 383  : 34231 MT LAKE8 - 34281 MTLAKET8 CKT: 1    42.0    41.8    36.0    36.0   115.3   114.7     0.6
SINGLE 401  : 34248 TRUMANM8 - 34249 TRUMAN 8 CKT: 1    42.0    41.8    36.0    36.0   115.0   114.3     0.7
SINGLE 402  : 34248 TRUMANM8 - 34280 TRUMANT8 CKT: 1    42.0    41.8    36.0    36.0   115.0   114.3     0.7
SINGLE 403  : 34249 TRUMAN 8 - 62799 LWSVLTP8 CKT: 1    41.7    41.5    36.0    36.0   114.1   113.4     0.7
SINGLE 381  : 34230 COMFREY8 - 34281 MTLAKET8 CKT: 1    41.0    40.8    36.0    36.0   112.5   111.9     0.6
SINGLE 405  : 34250 LEWISVL8 - 62799 LWSVLTP8 CKT: 1    41.0    40.8    36.0    36.0   112.1   111.4     0.7
SINGLE 380  : 34230 COMFREY8 - 34240 DOTSON 8 CKT: 1    40.5    40.3    36.0    36.0   111.2   110.6     0.6
SINGLE 3197 : 60934 WATOWAN8 - 62804 SVEADTP8 CKT: 1    40.6    40.5    36.0    36.0   111.1   110.9     0.2
LAKF-FOX DBL: ** MULTIPLE CONTINGENCY **                40.3    40.0    36.0    36.0   110.6   109.6     1.0
            : 34007 LAKEFLD5 - 34008 FOX LK 5 CKT: 1
            : 34007 LAKEFLD5 - 34008 FOX LK 5 CKT: 2
SINGLE 3200 : 60935 BUTRFLD8 - 62804 SVEADTP8 CKT: 1    40.1    40.0    36.0    36.0   109.8   109.4     0.4
SINGLE 39   : 34012 FOXLAKE8 - 34275 WELCOMT8 CKT: 1    39.9    39.6    36.0    36.0   109.2   108.5     0.7
SINGLE 384  : 34231 MT LAKE8 - 60935 BUTRFLD8 CKT: 1    39.8    39.7    36.0    36.0   108.7   108.3     0.4
SINGLE 404  : 34250 LEWISVL8 - 34267 HANSKAT8 CKT: 1    39.4    39.1    36.0    36.0   108.3   107.6     0.7
SINGLE 441  : 34275 WELCOMT8 - 61942 10TH STR CKT: 1    39.4    39.2    36.0    36.0   107.9   107.2     0.7
SINGLE 393  : 34240 DOTSON 8 - 62065 DOTSON 8 CKT: 1    38.8    38.5    36.0    36.0   106.3   105.5     0.8
SINGLE 1722 : 62065 DOTSON 8 - 62066 LVNWRTH8 CKT: 1    38.2    37.9    36.0    36.0   104.7   104.0     0.7
SINGLE 1694 : 61934 RUTLAND  - 61942 10TH STR CKT: 1    37.8    37.6    36.0    36.0   103.6   102.9     0.7
SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    37.5    37.3    36.0    36.0   103.2   102.6     0.6
SINGLE 406  : 34251 MADLIAJ8 - 34267 HANSKAT8 CKT: 1    37.6    37.2    36.0    36.0   102.7   101.7     1.0
SINGLE 1723 : 62066 LVNWRTH8 - 62068 ALBIN  8 CKT: 1    37.3    37.1    36.0    36.0   102.3   101.5     0.8
SINGLE 2925 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1    37.1    36.9    36.0    36.0   102.0   101.4     0.6
SINGLE 2926 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1    37.1    36.9    36.0    36.0   102.0   101.4     0.6
SINGLE 1695 : 61936 FAIRMONT - 61942 10TH STR CKT: 2    37.0    36.8    36.0    36.0   101.5   100.9     0.6
SINGLE 372  : 34225 HERONLK8 - 62801 SSTORDN8 CKT: 1    36.8    36.6    36.0    36.0   101.1   100.5     0.6
SINGLE 2920 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1    36.8    36.5    36.0    36.0   101.1   100.5     0.6
SINGLE 2937 : 60186 AS KING3 - 60006 KING 31G CKT: 1    36.8    36.5    36.0    36.0   101.0   100.3     0.7
SINGLE 2900 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1    36.7    36.5    36.0    36.0   100.9   100.3     0.6
SINGLE 374  : 34226 STORDEN8 - 62801 SSTORDN8 CKT: 1    36.8    36.6    36.0    36.0   100.8   100.2     0.6
SINGLE 2901 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1    36.6    36.4    36.0    36.0   100.7   100.2     0.5
SINGLE 1142 : 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1    36.7    36.3    36.0    36.0   100.6    99.9     0.7
SINGLE 944  : 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1    36.7    36.4    36.0    36.0   100.6    99.9     0.7
SINGLE 373  : 34226 STORDEN8 - 62791 JFFRSTP8 CKT: 1    36.6    36.4    36.0    36.0   100.6   100.0     0.6
SINGLE 2905 : 60110 WILMART7 -  8006 G261-CT1 CKT: 1    36.5    36.3    36.0    36.0   100.2    99.7     0.5
SINGLE 2906 : 60110 WILMART7 -  8007 G261-CT2 CKT: 1    36.5    36.3    36.0    36.0   100.2    99.7     0.5
SINGLE 1986 : 62791 JFFRSTP8 - 62800 NSTORDN8 CKT: 1    36.4    36.2    36.0    36.0    99.9    99.3     0.6
BASE CASE   : **       BASE CASE      **                35.3    35.2    36.0    36.0    96.9    96.3     0.6
SINGLE 3153 : 60826 TRAVRSE8 - 62350 TRAVERS8 CKT: 1    34.3    34.1    36.0    36.0    94.0    93.4     0.6
SINGLE 391  : 34237 WINDOMT8 - 34238 WINDMSW8 CKT: 1    34.3    34.1    36.0    36.0    93.9    93.4     0.5
SINGLE 392  : 34237 WINDOMT8 - 62798 LKSD TP8 CKT: 1    34.3    34.1    36.0    36.0    93.9    93.4     0.5
SINGLE 2706 : 34006 LAKEFLD3 -  3400 G164     CKT: 1    34.2    34.0    36.0    36.0    93.7    93.1     0.6
SINGLE 20   : 34006 LAKEFLD3 - 60286 NOBLES 3 CKT: C    34.0    33.8    36.0    36.0    93.4    92.8     0.6
SINGLE 33   : 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1    34.0    33.8    36.0    36.0    93.1    92.6     0.5
SINGLE 3008 : 60331 LKFLDXL3 - 63092 LGS  34Y CKT: 1    33.8    33.6    36.0    36.0    92.9    92.3     0.6
SINGLE 3009 : 60331 LKFLDXL3 - 63093 LGS  56Y CKT: 1    33.8    33.6    36.0    36.0    92.9    92.3     0.6
```

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  SINGLE 3007 : 60331 LKFLDXL3 - 63091 LGS  12Y CKT: 1    33.8    33.6    36.0    36.0    92.9    92.3     0.6
  SINGLE 3199 : 60934 WATOWAN8 - 62806 ECHOLS 8 CKT: 1    33.8    33.6    36.0    36.0    92.3    91.8     0.5
  SINGLE 409  : 34252 HANSKA 8 - 34267 HANSKAT8 CKT: 1    33.8    33.5    36.0    36.0    92.2    91.4     0.8
  SINGLE 3390 : 62793 ODIN TP8 - 62806 ECHOLS 8 CKT: 1    33.4    33.3    36.0    36.0    91.4    90.9     0.5
  SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1    33.2    33.1    36.0    36.0    91.0    90.5     0.5
  SINGLE 388  : 34234 WILDERJ8 - 34238 WINDMSW8 CKT: 1    33.0    32.9    36.0    36.0    90.7    90.2     0.5
  SINGLE 1988 : 62793 ODIN TP8 - 62794 TRIMONT8 CKT: 1    33.1   .....    36.0   .....    90.4   .....   *NEW*
  SINGLE 387  : 34234 WILDERJ8 - 34235 LAKFLDM8 CKT: 1    32.9   .....    36.0   .....    90.3   .....   *NEW*
  SINGLE 374  : 34227 LAMBRTN8 - 62800 NSTORDN8 CKT: 1   .....    36.4   .....    36.0   .....    99.8  *ELIM*

==================================================================================================================
  44) 60835 CHNDLRT8 -  6410 G272     CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **                10.0    10.0    10.5    10.5    95.0    95.0     0.0

==================================================================================================================
  45) 60860 PIPESTN8 -  6490 G185     CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **                 4.5     4.5     5.0     5.0    90.1    90.1     0.0

==================================================================================================================
  46) 60890 SCOTTCO8 - 60896 SHAKOPE8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **                35.3    35.3    37.0    37.0    95.7    95.7     0.0

==================================================================================================================
  47) 60897 LEBNON 8 - 62244 EAGAN  8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2943 : 60200 BLK DG27 - 62230 PILOTKB7 CKT: 1    49.3    49.3    47.0    47.0   114.0   114.0     0.0
  SINGLE 1199 : 60218 INVRHLS7 - 60220 INVRGRV7 CKT: 1    49.3    49.3    47.0    47.0   111.2   111.2     0.0
  SINGLE 2954 : 60220 INVRGRV7 - 62230 PILOTKB7 CKT: 1    48.8    48.8    47.0    47.0   109.2   109.2     0.0
  BASE CASE   : **       BASE CASE      **                47.6    47.6    47.0    47.0   106.4   106.3     0.1
  SPC-PRI/CTF5: ** MULTIPLE CONTINGENCY **                46.5    46.5    47.0    47.0   104.2   104.2     0.0
              : 63071 SPRNGCK5 - 60106 PR ISLD5 CKT: 1
              : 63071 SPRNGCK5 - 60103 CANNFLS5 CKT: 1
  740    1    : ** MULTIPLE CONTINGENCY **                46.5    46.5    47.0    47.0   104.2   104.2     0.0
              : 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1
              : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1
              : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1
  SINGLE 947  : 60105 PR ISLD3 - 60106 PR ISLD5 CKT: 1    46.5    46.5    47.0    47.0   104.1   104.1     0.0
  SINGLE 2902 : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1    46.5    46.5    47.0    47.0   104.1   104.1     0.0
  SINGLE 1200 : 60218 INVRHLS7 - 60223 KOCHREF7 CKT: 1    46.4    46.4    47.0    47.0   103.5   103.5     0.0
  SINGLE 1458 : 60786 DUNDAS 8 - 60788 VALLYTP8 CKT: 1    46.3    46.3    47.0    47.0   103.3   103.3     0.0
  SINGLE 1460 : 60788 VALLYTP8 - 60789 CIRCLTP8 CKT: 1    46.1    46.1    47.0    47.0   103.0   103.0     0.0
  SINGLE 2938 : 60188 RIVERWD7 - 62225 BURNVIL7 CKT: 1    45.9    45.9    47.0    47.0   102.6   102.6     0.0
  SINGLE 1461 : 60789 CIRCLTP8 - 60790 FAIRPRK8 CKT: 1    45.9    45.9    47.0    47.0   102.5   102.5     0.0
  SINGLE 1119 : 60188 RIVERWD7 - 60200 BLK DG27 CKT: 1    45.5    45.5    47.0    47.0   101.8   101.8     0.0
  SINGLE 1532 : 60897 LEBNON 8 - 60905 FRMNGTN8 CKT: 1    44.9    44.9    47.0    47.0   101.7   101.7     0.0
  SINGLE 3188 : 60905 FRMNGTN8 - 62259 LKMARN 8 CKT: 1    42.3    42.3    47.0    47.0    97.2    97.2     0.0

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  48) 60934 WATOWAN8 - 62805 STJAMES8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    77.2    76.5    36.0    36.0   207.3   205.6     1.7
  SINGLE 28   : 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1    49.7    49.3    36.0    36.0   134.0   132.9     1.1
  SINGLE 450  : 34280 TRUMANT8 - 61934 RUTLAND  CKT: 1    46.5    46.3    36.0    36.0   125.7   125.0     0.7
  SINGLE 383  : 34231 MT LAKE8 - 34281 MTLAKET8 CKT: 1    45.4    45.1    36.0    36.0   122.2   121.6     0.6
  SINGLE 401  : 34248 TRUMANM8 - 34249 TRUMAN 8 CKT: 1    45.1    44.9    36.0    36.0   121.7   121.0     0.7
  SINGLE 402  : 34248 TRUMANM8 - 34280 TRUMANT8 CKT: 1    45.1    44.9    36.0    36.0   121.7   121.0     0.7
  SINGLE 403  : 34249 TRUMAN 8 - 62799 LWSVLTP8 CKT: 1    44.8    44.5    36.0    36.0   120.7   120.0     0.7
  SINGLE 381  : 34230 COMFREY8 - 34281 MTLAKET8 CKT: 1    44.3    44.1    36.0    36.0   119.4   118.8     0.6
  SINGLE 405  : 34250 LEWISVL8 - 62799 LWSVLTP8 CKT: 1    44.1    43.8    36.0    36.0   118.7   118.0     0.7
  SINGLE 380  : 34230 COMFREY8 - 34240 DOTSON 8 CKT: 1    43.8    43.6    36.0    36.0   118.1   117.4     0.7
```

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SINGLE 3197 : 60934 WATOWAN8 - 62804 SVEADTP8 CKT: 1    43.9    43.8    36.0    36.0   118.0   117.8     0.2
LAKF-FOX DBL: ** MULTIPLE CONTINGENCY **                43.4    43.1    36.0    36.0   117.3   116.4     0.9
            : 34007 LAKEFLD5 - 34008 FOX LK 5 CKT: 1
            : 34007 LAKEFLD5 - 34008 FOX LK 5 CKT: 2
SINGLE 3200 : 60935 BUTRFLD8 - 62804 SVEADTP8 CKT: 1    43.3    43.2    36.0    36.0   116.7   116.3     0.4
SINGLE 39   : 34012 FOXLAKE8 - 34275 WELCOMT8 CKT: 1    43.0    42.7    36.0    36.0   116.0   115.3     0.7
SINGLE 384  : 34231 MT LAKE8 - 60935 BUTRFLD8 CKT: 1    43.0    42.9    36.0    36.0   115.6   115.2     0.4
SINGLE 404  : 34250 LEWISVL8 - 34267 HANSKAT8 CKT: 1    42.6    42.3    36.0    36.0   115.2   114.5     0.7
SINGLE 441  : 34275 WELCOMT8 - 61942 10TH STR CKT: 1    42.5    42.2    36.0    36.0   114.7   114.0     0.7
SINGLE 393  : 34240 DOTSON 8 - 62065 DOTSON 8 CKT: 1    41.9    41.6    36.0    36.0   113.1   112.4     0.7
SINGLE 1722 : 62065 DOTSON 8 - 62066 LVNWRTH8 CKT: 1    41.3    41.0    36.0    36.0   111.5   110.8     0.7
SINGLE 1694 : 61934 RUTLAND  - 61942 10TH STR CKT: 1    40.9    40.6    36.0    36.0   110.4   109.6     0.8
SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    40.6    40.4    36.0    36.0   110.1   109.5     0.6
SINGLE 406  : 34251 MADLIAJ8 - 34267 HANSKAT8 CKT: 1    40.6    40.2    36.0    36.0   109.4   108.4     1.0
SINGLE 1723 : 62066 LVNWRTH8 - 62068 ALBIN  8 CKT: 1    40.4    40.1    36.0    36.0   109.1   108.3     0.8
SINGLE 2925 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1    40.2    40.0    36.0    36.0   108.9   108.2     0.7
SINGLE 2926 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1    40.2    40.0    36.0    36.0   108.9   108.3     0.6
SINGLE 1695 : 61936 FAIRMONT - 61942 10TH STR CKT: 2    40.1    39.9    36.0    36.0   108.3   107.8     0.5
SINGLE 372  : 34225 HERONLK8 - 62801 SSTORDN8 CKT: 1    39.9    39.7    36.0    36.0   108.0   107.4     0.6
SINGLE 2920 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1    39.9    39.6    36.0    36.0   108.0   107.3     0.7
SINGLE 2937 : 60186 AS KING3 - 60006 KING 31G CKT: 1    39.9    39.6    36.0    36.0   107.8   107.2     0.6
SINGLE 374  : 34226 STORDEN8 - 62801 SSTORDN8 CKT: 1    39.9    39.7    36.0    36.0   107.7   107.1     0.6
SINGLE 2900 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1    39.7    39.5    36.0    36.0   107.7   107.1     0.6
SINGLE 2901 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1    39.7    39.5    36.0    36.0   107.6   107.0     0.6
SINGLE 1142 : 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1    39.8    39.4    36.0    36.0   107.4   106.7     0.7
SINGLE 944  : 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1    39.8    39.4    36.0    36.0   107.4   106.8     0.6
SINGLE 373  : 34226 STORDEN8 - 62791 JFFRSTP8 CKT: 1    39.7    39.5    36.0    36.0   107.4   106.8     0.6
SINGLE 2905 : 60110 WILMART7 -  8006 G261-CT1 CKT: 1    39.6    39.4    36.0    36.0   107.1   106.5     0.6
SINGLE 2906 : 60110 WILMART7 -  8007 G261-CT2 CKT: 1    39.6    39.4    36.0    36.0   107.1   106.5     0.6
SINGLE 1986 : 62791 JFFRSTP8 - 62800 NSTORDN8 CKT: 1    39.5    39.3    36.0    36.0   106.8   106.2     0.6
SINGLE 376  : 34227 LAMBRTN8 - 62800 NSTORDN8 CKT: 1    39.4    39.4    36.0    36.0   106.5   106.6    -0.1
BASE CASE   : **       BASE CASE      **                38.4    38.2    36.0    36.0   103.7   103.2     0.5
SINGLE 3153 : 60826 TRAVRSE8 - 62350 TRAVERS8 CKT: 1    37.3    37.1    36.0    36.0   100.8   100.3     0.5
SINGLE 391  : 34237 WINDOMT8 - 34238 WINDMSW8 CKT: 1    37.3    37.2    36.0    36.0   100.7   100.2     0.5
SINGLE 392  : 34237 WINDOMT8 - 62798 LKSD TP8 CKT: 1    37.3    37.1    36.0    36.0   100.7   100.2     0.5
SINGLE 2706 : 34006 LAKEFLD3 -  3400 G164     CKT: 1    37.2    37.0    36.0    36.0   100.6   100.0     0.6
SINGLE 20   : 34006 LAKEFLD3 - 60286 NOBLES 3 CKT: C    37.0    36.8    36.0    36.0   100.2    99.6     0.6
SINGLE 33   : 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1    37.0    36.8    36.0    36.0    99.9    99.4     0.5
SINGLE 3008 : 60331 LKFLDXL3 - 63092 LGS  34Y CKT: 1    36.8    36.6    36.0    36.0    99.7    99.1     0.6
SINGLE 3009 : 60331 LKFLDXL3 - 63093 LGS  56Y CKT: 1    36.8    36.6    36.0    36.0    99.7    99.1     0.6
SINGLE 3007 : 60331 LKFLDXL3 - 63091 LGS  12Y CKT: 1    36.8    36.6    36.0    36.0    99.7    99.1     0.6
SINGLE 3199 : 60934 WATOWAN8 - 62806 ECHOLS 8 CKT: 1    36.9    36.7    36.0    36.0    99.2    98.7     0.5
SINGLE 409  : 34252 HANSKA 8 - 34267 HANSKAT8 CKT: 1    36.7    36.4    36.0    36.0    98.9    98.1     0.8
SINGLE 3390 : 62793 ODIN TP8 - 62806 ECHOLS 8 CKT: 1    36.5    36.3    36.0    36.0    98.3    97.8     0.5
SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1    36.2    36.1    36.0    36.0    97.9    97.4     0.5
SINGLE 388  : 34234 WILDERJ8 - 34238 WINDMSW8 CKT: 1    36.0    35.9    36.0    36.0    97.5    97.0     0.5
SINGLE 1988 : 62793 ODIN TP8 - 62794 TRIMONT8 CKT: 1    36.1    35.9    36.0    36.0    97.3    96.9     0.4
SINGLE 387  : 34234 WILDERJ8 - 34235 LAKFLDM8 CKT: 1    35.9    35.6    36.0    36.0    97.1    96.5     0.6
SINGLE 25   : 34007 LAKEFLD5 - 34241 LKFLD698 CKT: 1    35.6    35.4    36.0    36.0    96.2    95.7     0.5
SINGLE 396  : 34243 TRIMONT8 - 62794 TRIMONT8 CKT: 1    35.7    35.5    36.0    36.0    96.2    95.8     0.4
SINGLE 390  : 34235 LAKFLDM8 - 34241 LKFLD698 CKT: 1    35.6    35.4    36.0    36.0    96.2    95.7     0.5
SINGLE 1376 : 60650 WILMART8 - 60807 EASTWDT8 CKT: 1    35.5    35.5    36.0    36.0    96.1    96.1     0.0
SINGLE 3128 : 60807 EASTWDT8 - 62338 POHL TP8 CKT: 1    35.5    35.5    36.0    36.0    96.1    96.0     0.1
SINGLE 3134 : 60810 POHLRDT8 - 62338 POHL TP8 CKT: 1    35.5    35.5    36.0    36.0    96.1    96.0     0.1
SINGLE 397  : 34243 TRIMONT8 - 62795 SHERBRN8 CKT: 1    35.0    34.8    36.0    36.0    94.5    94.1     0.4
SINGLE 398  : 34244 SHERBRN8 - 62795 SHERBRN8 CKT: 1    34.6    34.4    36.0    36.0    93.5    93.1     0.4
SINGLE 38   : 34012 FOXLAKE8 - 34244 SHERBRN8 CKT: 1    34.4    33.8    36.0    36.0    92.8    91.5     1.3
SINGLE 32   : 34009 WINBAGO5 - 61932 RUTLAND5 CKT: 1    34.1    34.0    36.0    36.0    92.3    91.9     0.4

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 49) 60938 FTRIDGL8 - 62077 SCHLTP 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    52.1    51.9    37.0    37.0   138.2   137.4     0.8
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SINGLE 3153	: 60826 TRAVRSE8 - 62350 TRAVERS8 CKT: 1	43.9	43.8	37.0	37.0	115.5	115.2	0.3
SINGLE 3068	: 60728 FRANKLN8 - 60727 FARFXNU8 CKT: 1	43.5	43.4	37.0	37.0	114.5	114.2	0.3
SINGLE 3024	: 60650 WILMART8 - 62336 JHNSNTP8 CKT: 1	43.0	42.9	37.0	37.0	113.4	113.1	0.3
SINGLE 3395	: 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1	41.7	41.6	37.0	37.0	109.2	108.8	0.4
SINGLE 3066	: 60726 GIBBON 8 - 60769 CAIRO R8 CKT: 1	41.0	40.9	37.0	37.0	107.8	107.5	0.3
SINGLE 3152	: 60826 TRAVRSE8 - 62323 PNLPNTP8 CKT: 1	41.0	40.9	37.0	37.0	107.8	107.5	0.3
SINGLE 3067	: 60726 GIBBON 8 - 62075 CORNISH8 CKT: 1	40.1	40.0	37.0	37.0	105.4	105.1	0.3
SINGLE 3203	: 60940 NW ULM 8 - 62081 NEW ULM8 CKT: 1	40.1	40.0	37.0	37.0	104.9	104.6	0.3
SINGLE 1548	: 60938 FTRIDGL8 - 60940 NW ULM 8 CKT: 1	40.1	40.0	37.0	37.0	104.9	104.6	0.3
795	: ** MULTIPLE CONTINGENCY **	39.9	39.7	37.0	37.0	104.9	104.5	0.4
	: 66550 GRANITF4 - 60150 MNVLTAP4 CKT: 1							
	: 60148 MINVALY7 - 60149 MINVALT4 CKT: C							
	: 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1							
	: 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1							
	: 63054 PANTHER4 - 60742 PANTHER8 CKT: 1							
SINGLE 3064	: 60724 HENDRSN8 - 60868 LESR TP8 CKT: 1	39.6	39.5	37.0	37.0	104.3	104.0	0.3
SINGLE 3065	: 60724 HENDRSN8 - 62674 JSNLDTP8 CKT: 1	39.4	39.3	37.0	37.0	103.7	103.3	0.4
SINGLE 964	: 60110 WILMART7 - 60194 CARVRCO7 CKT: 1	39.3	39.2	37.0	37.0	103.6	103.2	0.4
SINGLE 2024	: 62980 MCLEOD 4 - 62981 MCLEOD 7 CKT: 1	39.5	39.4	37.0	37.0	103.3	103.0	0.3
SINGLE 2919	: 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1	39.2	39.1	37.0	37.0	102.9	102.6	0.3
SINGLE 3060	: 60721 ESSIG 8 - 62067 SRL JCT8 CKT: 1	39.2	39.1	37.0	37.0	102.8	102.5	0.3
SINGLE 3061	: 60721 ESSIG 8 - 62080 HOME TP8 CKT: 1	39.1	39.0	37.0	37.0	102.6	102.4	0.2
705 1	: ** MULTIPLE CONTINGENCY **	39.1	38.9	37.0	37.0	102.5	102.2	0.3
	: 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1							
	: 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1							
	: 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 1							
BLL-EDP/PKL3	: ** MULTIPLE CONTINGENCY **	39.0	38.8	37.0	37.0	102.3	102.0	0.3
	: 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1							
	: 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1							
SINGLE 970	: 60112 FTRIDLY7 - 60145 FRANKLN7 CKT: 1	39.1	38.6	37.0	37.0	102.0	101.0	1.0
SINGLE 2927	: 60160 SHERCO 3 - 60002 SHERC33G CKT: 1	38.5	38.4	37.0	37.0	101.3	101.0	0.3
SINGLE 2025	: 62981 MCLEOD 7 - 62983 HUTCH3M7 CKT: 1	38.4	38.3	37.0	37.0	100.7	100.4	0.3
500	: ** MULTIPLE CONTINGENCY **	38.3	38.1	37.0	37.0	100.2	99.9	0.3
	: 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1							
	: 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1							
SINGLE 2926	: 60160 SHERCO 3 - 60001 SHERC32G CKT: 1	38.0	37.9	37.0	37.0	99.9	99.6	0.3
SINGLE 2027	: 62982 HUTCHMN7 - 62986 HUTCHMN8 CKT: 1	38.0	38.0	37.0	37.0	99.9	99.7	0.2
SINGLE 2925	: 60160 SHERCO 3 - 60000 SHERC31G CKT: 1	38.0	37.9	37.0	37.0	99.9	99.6	0.3
SINGLE 2029	: 62985 HUTCHPK8 - 62986 HUTCHMN8 CKT: 1	38.1	38.0	37.0	37.0	99.7	99.4	0.3
SINGLE 2053	: 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1	38.0	37.9	37.0	37.0	99.6	99.3	0.3
SINGLE 1276	: 60265 LOON TP7 - 60830 EASTWD18 CKT: P	37.8	37.7	37.0	37.0	99.5	99.1	0.4
SINGLE 3399	: 62986 HUTCHMN8 - 62603 HSSNJCT8 CKT: 1	37.7	37.6	37.0	37.0	99.3	99.1	0.2
710 2	: ** MULTIPLE CONTINGENCY **	37.8	37.7	37.0	37.0	99.1	98.8	0.3
	: 62925 DICKNSN7 - 60206 CROWRVR7 CKT: 1							
	: 62925 DICKNSN7 - 62667 ST BONI7 CKT: 1							
	: 62667 ST BONI7 - 60277 WWACNIA7 CKT: 1							
	: 62667 ST BONI7 - 63021 ST BONI8 CKT: 1							
SINGLE 2920	: 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1	37.7	37.6	37.0	37.0	99.0	98.7	0.3
DKN-CRO/STB7	: ** MULTIPLE CONTINGENCY **	37.7	37.6	37.0	37.0	98.9	98.7	0.2
	: 62925 DICKNSN7 - 60206 CROWRVR7 CKT: 1							
	: 62925 DICKNSN7 - 62667 ST BONI7 CKT: 1							
SINGLE 2026	: 62982 HUTCHMN7 - 62983 HUTCH3M7 CKT: 1	37.7	37.6	37.0	37.0	98.8	98.6	0.2
SINGLE 1069	: 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C	37.6	37.5	37.0	37.0	98.8	98.5	0.3
SINGLE 1366	: 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C	37.7	37.6	37.0	37.0	98.7	98.5	0.2
SINGLE 1999	: 62925 DICKNSN7 - 63030 DICKNSN3 CKT: 1	37.7	37.6	37.0	37.0	98.7	98.5	0.2
SINGLE 944	: 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1	37.5	37.4	37.0	37.0	98.4	98.1	0.3
SINGLE 1142	: 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1	37.5	37.4	37.0	37.0	98.4	98.1	0.3
SINGLE 1040	: 60145 FRANKLN7 - 60728 FRANKLN8 CKT: 1	37.5	37.4	37.0	37.0	98.3	98.0	0.3
SINGLE 1041	: 60145 FRANKLN7 - 60728 FRANKLN8 CKT: 2	37.5	37.4	37.0	37.0	98.3	98.0	0.3
SINGLE 2937	: 60186 AS KING3 - 60006 KING 31G CKT: 1	37.4	37.3	37.0	37.0	98.2	97.9	0.3
SINGLE 1377	: 60650 WILMART8 - 60831 EASTWD28 CKT: 1	37.3	37.2	37.0	37.0	98.2	98.0	0.2
SINGLE 3157	: 60831 EASTWD28 - 62347 EAGLELK8 CKT: 1	37.1	37.0	37.0	37.0	97.8	97.5	0.3
SINGLE 3069	: 60728 FRANKLN8 - 60770 BIRCH R8 CKT: C	37.3	37.2	37.0	37.0	97.7	97.5	0.2

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  SINGLE 952  : 60107 W FARIB7 - 60265 LOON TP7 CKT: C    37.2    37.0    37.0    37.0    97.6    97.3     0.3
  SINGLE 3129 : 60808 EAGLELK8 - 62347 EAGLELK8 CKT: 1    37.1    37.0    37.0    37.0    97.6    97.3     0.3
  SINGLE 3037 : 60677 HENRYTR8 - 60770 BIRCH R8 CKT: C    37.2    37.1    37.0    37.0    97.5    97.2     0.3
  SINGLE 2900 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1    37.1    37.0    37.0    37.0    97.3    97.0     0.3
  SINGLE 3130 : 60808 EAGLELK8 - 62351 JMSTWTP8 CKT: 1    36.9    36.8    37.0    37.0    97.3    97.0     0.3
  SINGLE 1129 : 60193 BLUE LK7 - 60215 HYLNDLK7 CKT: 1    36.9    36.8    37.0    37.0    97.2    96.9     0.3
  SINGLE 2901 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1    37.1    37.0    37.0    37.0    97.2    97.0     0.2
  BASE CASE   : **       BASE CASE      **                35.9    35.8    37.0    37.0    94.4    94.1     0.3
  SINGLE 1415 : 60718 BIRDISL8 - 60742 PANTHER8 CKT: 1    34.9    34.8    37.0    37.0    91.9    91.7     0.2
  SINGLE 2904 : 60108 WILMART3 -  8001 G261-ST  CKT: 1    34.8    34.7    37.0    37.0    91.7    91.5     0.2
  SINGLE 2905 : 60110 WILMART7 -  8006 G261-CT1 CKT: 1    34.8    34.8    37.0    37.0    91.7    91.4     0.3
  SINGLE 2906 : 60110 WILMART7 -  8007 G261-CT2 CKT: 1    34.8    34.8    37.0    37.0    91.7    91.4     0.3
  SCO-SSK/CAR7: ** MULTIPLE CONTINGENCY **                34.8    34.7    37.0    37.0    91.6    91.4     0.2
              : 60244 SCOTTCO7 - 62975 SHAKOPE7 CKT: 1
              : 60244 SCOTTCO7 - 60243 SCOTTAP7 CKT: 1
              : 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1
              : 60243 SCOTTAP7 - 62666 GLNDALE7 CKT: 1
  SINGLE 3082 : 60742 PANTHER8 - 63054 PANTHER4 CKT: 1    34.6    34.5    37.0    37.0    91.3    91.0     0.3
  SINGLE 2028 : 62984 HUTCHPT8 - 62988 HTCHHTI8 CKT: 1    34.7    34.6    37.0    37.0    91.2    90.9     0.3
  SINGLE 3070 : 60728 FRANKLN8 - 62073 EDEN TP8 CKT: 1    34.7    34.6    37.0    37.0    91.2    91.0     0.2

==================================================================================================================
  50) 61478 INV TR1Y - 60028 INV  71G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **                63.8    63.8    70.0    70.0    91.2    91.2     0.0

==================================================================================================================
  51) 61478 INV TR1Y - 60029 INV  72G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **                63.9    63.9    70.0    70.0    91.3    91.3     0.0

==================================================================================================================
  52) 61481 WHT TR1Y - 60035 WHT  52G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **                63.7    63.7    70.0    70.0    91.1    91.1     0.0

==================================================================================================================
  53) 61601 CENTRDC4 - 66748 CENTER2G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **               477.4   477.4   465.0   465.0   102.7   102.7     0.0
  SINGLE 2198 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1   474.7   473.2   465.0   465.0   102.1   101.8     0.3
  SINGLE 3576 : 66751 CENTER 4 - 66756 SQBUTTE4 CKT: 1   473.2   473.2   465.0   465.0   101.8   101.8     0.0

==================================================================================================================
  54) 61601 CENTRDC4 - 66756 SQBUTTE4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **               458.1   458.1   478.0   478.0    92.9    92.9     0.0
  SINGLE 2198 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1   456.6   455.6   478.0   478.0    91.7    91.4     0.3
  SINGLE 3576 : 66751 CENTER 4 - 66756 SQBUTTE4 CKT: 1   455.6   455.6   478.0   478.0    91.4    91.4     0.0

==================================================================================================================
  55) 61640 BADOURA7 - 61840 BADOURA9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **                20.1    20.1    18.0    18.0   111.7   111.7     0.0

==================================================================================================================
  56) 61641 HUBBARD7 - 61841 HUBBARD9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **                19.0    19.0    12.0    12.0   158.1   158.2    -0.1

==================================================================================================================
  57) 61641 HUBBARD7 - 61841 HUBBARD9 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
```

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  BASE CASE   : **       BASE CASE      **                26.7    26.7    18.0    18.0   148.2   148.2     0.0

==================================================================================================================
  58) 61645 BAXTER 7 - 61845 BAXTER 9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **                25.4    25.4    21.0    21.0   120.7   120.7     0.0

==================================================================================================================
  59) 61648 PEQUOT 7 - 61848 PEQUOT 9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **                19.2    19.2    18.0    18.0   106.6   106.6     0.0

==================================================================================================================
  60) 61650 LITTLEF7 - 61850 LITTLEF9 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **                16.3    16.3    18.0    18.0    90.5    90.6    -0.1

==================================================================================================================
  61) 61652 BRAINRD7 - 61852 BRAINRD9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **                19.1    19.1    18.0    18.0   106.3   106.3     0.0

==================================================================================================================
  62) 61652 BRAINRD7 - 61852 BRAINRD9 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **                18.4    18.4    18.0    18.0   102.1   102.1     0.0

==================================================================================================================
  63) 61652 BRAINRD7 - 61852 BRAINRD9 CKT:  3          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **                18.1    18.1    18.0    18.0   100.6   100.6     0.0

==================================================================================================================
  64) 61676 HIBBARD7 - 61680 WNTR ST7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 3283 : 61051 STCRFL5G - 69565 APL RVR5 CKT: C   157.1   157.0   144.0   144.0   110.3   110.1     0.2
  SINGLE 1141 : 60196 CHI    7 - 60920 LINDSTM7 CKT: C   156.5   156.4   144.0   144.0   109.9   109.7     0.2
  SINGLE 1654 : 61051 STCRFL5G - 61131 LAW CRK5 CKT: C   155.6   155.4   144.0   144.0   109.1   109.0     0.1
  SINGLE 3191 : 60920 LINDSTM7 - 62276 SHAFER 7 CKT: C   155.4   155.2   144.0   144.0   109.0   108.8     0.2
  SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   154.7   154.3   144.0   144.0   108.9   108.7     0.2
  SINGLE 3321 : 61128 LAW CRK7 - 62276 SHAFER 7 CKT: C   155.0   154.2   144.0   144.0   108.7   108.9    -0.2
  SINGLE 1306 : 60296 SHELDNP7 - 60306 HOLCOMB7 CKT: 1   149.7   149.5   144.0   144.0   105.2   105.1     0.1
  SINGLE 1305 : 60296 SHELDNP7 - 60297 OSPREY 7 CKT: 1   148.6   148.4   144.0   144.0   104.4   104.2     0.2
  SINGLE 1118 : 60187 AS KING7 - 60325 WILOWRV7 CKT: 1   148.5   148.3   144.0   144.0   104.4   104.3     0.1
  SINGLE 1323 : 60306 HOLCOMB7 - 60322 CORNELL7 CKT: 1   148.2   148.1   144.0   144.0   104.1   104.0     0.1
  SINGLE 1304 : 60295 BAYFRNT7 - 60657 BAYFRT88 CKT: 1   147.5   147.4   144.0   144.0   103.6   103.5     0.1
  SINGLE 1385 : 60662 BIGFALL8 - 61129 WHTTAIL8 CKT: 1   146.3   146.1   144.0   144.0   102.9   102.8     0.1
  SINGLE 1345 : 60317 WHEATON5 - 61481 WHT TR1Y CKT: 1   146.4   146.3   144.0   144.0   102.8   102.6     0.2
  SINGLE 3019 : 60361 ROCKCR 4 - 61580 BEARCK 4 CKT: 1   146.8   146.6   144.0   144.0   102.7   102.6     0.1
  SINGLE 1350 : 60319 WHEATTP5 - 60320 HYDROLN5 CKT: 1   146.2   146.0   144.0   144.0   102.6   102.4     0.2
  SINGLE 1351 : 60320 HYDROLN5 - 60321 HYDROLN7 CKT: 1   146.2   146.0   144.0   144.0   102.6   102.4     0.2
  SINGLE 1336 : 60313 PINE LK7 - 60325 WILOWRV7 CKT: 1   145.7   145.5   144.0   144.0   102.3   102.1     0.2
  SINGLE 3364 : 61948 BYRON  5 - 61906 MAPLE LF CKT: 1   145.7   145.5   144.0   144.0   102.3   102.1     0.2
  SINGLE 1287 : 60283 S109   7 - 60298 PARKFLS7 CKT: 1   145.3   145.2   144.0   144.0   102.0   101.9     0.1
  SINGLE 1286 : 60283 S109   7 - 60297 OSPREY 7 CKT: 1   145.3   145.2   144.0   144.0   102.0   101.9     0.1
  SINGLE 2959 : 60238 REDROCK7 - 68966 GLENMONT CKT: 1   145.2   145.0   144.0   144.0   101.9   101.8     0.1
  SINGLE 1320 : 60305 EAU CLA5 - 60368 JEFRSRD5 CKT: 1   145.2   145.1   144.0   144.0   101.9   101.8     0.1
  SINGLE 3347 : 61481 WHT TR1Y - 60035 WHT  52G CKT: 1   145.1   145.0   144.0   144.0   101.9   101.7     0.2
  SINGLE 1352 : 60321 HYDROLN7 - 60326 JIMFLS 7 CKT: 1   145.2   145.1   144.0   144.0   101.9   101.8     0.1
  SINGLE 3004 : 60327 T RIVFL7 - 68966 GLENMONT CKT: 1   145.1   144.9   144.0   144.0   101.8   101.7     0.1
  SINGLE 1339 : 60314 PINELKT5 - 60329 CRYSTAL5 CKT: 1   144.9   144.7   144.0   144.0   101.8   101.7     0.1
  SINGLE 1112 : 60186 AS KING3 - 60187 AS KING7 CKT: 1   145.0   144.8   144.0   144.0   101.8   101.7     0.1
  SINGLE 1370 : 60361 ROCKCR 4 - 63048 RUSH CY4 CKT: 1   145.8   145.6   144.0   144.0   101.8   101.6     0.2
```

SINGLE 1347 :	60318 WHEATON5 -	60319 WHEATTP5	CKT: 1	145.1	144.9	144.0	144.0	101.8	101.7	0.1
SINGLE 1348 :	60318 WHEATON5 -	60368 JEFRSRD5	CKT: 1	145.1	144.9	144.0	144.0	101.8	101.7	0.1
SINGLE 1113 :	60186 AS KING3 -	60199 CHIS CO3	CKT: 1	144.8	144.7	144.0	144.0	101.8	101.6	0.2
SINGLE 3332 :	61193 HOFFMAN8 -	61184 HOFFMAN9	CKT: 1	144.9	144.7	144.0	144.0	101.7	101.5	0.2
SINGLE 1369 :	60361 ROCKCR 4 -	61192 ROCKCRK8	CKT: 1	144.8	144.7	144.0	144.0	101.7	101.5	0.2
SINGLE 1683 :	61192 ROCKCRK8 -	61193 HOFFMAN8	CKT: 1	144.8	144.7	144.0	144.0	101.7	101.5	0.2
SINGLE 3346 :	61481 WHT TR1Y -	60034 WHT 51G	CKT: 1	144.9	144.8	144.0	144.0	101.6	101.5	0.1
SINGLE 1297 :	60290 ST LAKE5 -	60293 FRMSINN5	CKT: 1	144.9	144.7	144.0	144.0	101.6	101.5	0.1
SINGLE 974 :	60114 ELM CRK3 -	60151 MNTCELO3	CKT: 1	144.7	144.5	144.0	144.0	101.6	101.4	0.2
SINGLE 1143 :	60197 CHIS CO2 -	61493 CHIS D1Y	CKT: 1	144.6	144.4	144.0	144.0	101.5	101.4	0.1
SINGLE 1697 :	61948 BYRON 5 -	61950 BYRON 3	CKT: 1	144.7	144.5	144.0	144.0	101.5	101.4	0.1
SINGLE 1144 :	60197 CHIS CO2 -	61494 CHIS D2Y	CKT: 1	144.6	144.4	144.0	144.0	101.5	101.4	0.1
SINGLE 3003 :	60326 JIMFLS 7 -	69157 ANDERSN7	CKT: 1	144.6	144.4	144.0	144.0	101.5	101.3	0.2
SINGLE 1146 :	60199 CHIS CO3 -	61493 CHIS D1Y	CKT: 1	144.5	144.4	144.0	144.0	101.5	101.3	0.2
SINGLE 1147 :	60199 CHIS CO3 -	61494 CHIS D2Y	CKT: 1	144.6	144.4	144.0	144.0	101.5	101.4	0.1
SINGLE 3029 :	60662 BIGFALL8 -	69035 FLAMBEAU	CKT: 1	144.6	144.5	144.0	144.0	101.5	101.3	0.2
SINGLE 1138 :	60196 CHI 7 -	60199 CHIS CO3	CKT: 1	144.5	144.3	144.0	144.0	101.4	101.3	0.1
SINGLE 1139 :	60196 CHI 7 -	60199 CHIS CO3	CKT: C	144.5	144.3	144.0	144.0	101.4	101.3	0.1
SINGLE 1316 :	60304 EAU CL 3 -	60305 EAU CLA5	CKT: 1	144.6	144.4	144.0	144.0	101.4	101.3	0.1
SINGLE 1317 :	60304 EAU CL 3 -	60305 EAU CLA5	CKT: 2	144.5	144.3	144.0	144.0	101.4	101.2	0.2
BASE CASE :	** BASE CASE	**		143.5	143.3	144.0	144.0	100.7	100.5	0.2
SINGLE 1230 :	60236 REDROCK3 -	60237 REDROCK4	CKT: 1	142.4	142.3	144.0	144.0	100.1	100.0	0.1
SINGLE 1627 :	61019 JIMFALL8 -	61078 EAGPTTP8	CKT: 1	142.4	142.2	144.0	144.0	99.9	99.7	0.2
SINGLE 3259 :	61024 RUSHRVR8 -	69163 CARR CK8	CKT: 1	142.4	142.3	144.0	144.0	99.9	99.7	0.2
SINGLE 1312 :	60301 PRENTCE7 -	61087 PRENTIC8	CKT: 1	142.2	142.1	144.0	144.0	99.8	99.6	0.2
SINGLE 3256 :	61023 PINE LK8 -	69163 CARR CK8	CKT: 1	142.4	142.2	144.0	144.0	99.8	99.7	0.1
SINGLE 2983 :	60292 IRONRIV7 -	69111 IRON RIV	CKT: 1	142.3	142.2	144.0	144.0	99.8	99.6	0.2
SINGLE 1887 :	62399 WASCOTT8 -	62402 FROG CR8	CKT: 1	142.3	142.1	144.0	144.0	99.8	99.6	0.2
SINGLE 3307 :	61087 PRENTIC8 -	69039 OGEMA	CKT: 1	142.2	142.1	144.0	144.0	99.8	99.6	0.2
SINGLE 3378 :	62402 FROG CR8 -	61631 MINONG 5	CKT: 1	142.3	142.1	144.0	144.0	99.8	99.6	0.2
SINGLE 1013 :	60133 SHEYNNE4 -	63336 AUDUBON4	CKT: 1	142.1	.....	144.0	.....	99.7	.....	*NEW*
SINGLE 2037 :	63031 BUNKER 3 -	63046 BUNKER 4	CKT: 1	142.4	142.3	144.0	144.0	99.7	99.6	0.1
SINGLE 2038 :	63040 BLAINE 4 -	63046 BUNKER 4	CKT: 1	142.4	141.7	144.0	144.0	99.7	99.9	-0.2
SINGLE 1884 :	62396 AMNICON8 -	62401 AMNCNTP8	CKT: 1	142.3	142.1	144.0	144.0	99.7	99.6	0.1
SINGLE 3293 :	61064 BARRMUN8 -	69028 T BARMUN	CKT: 1	142.1	141.9	144.0	144.0	99.6	99.4	0.2
SINGLE 2054 :	63051 HENNING4 -	63052 INMAN 4	CKT: 1	142.0	141.9	144.0	144.0	99.6	99.5	0.1
SINGLE 2194 :	63329 WAHPETN4 -	63331 FERGSFL4	CKT: 1	142.1	142.0	144.0	144.0	99.6	99.5	0.1
SINGLE 1355 :	60326 JIMFLS 7 -	61019 JIMFALL8	CKT: 1	142.1	141.9	144.0	144.0	99.6	99.5	0.1
SINGLE 2933 :	60175 ROSEAU 4 -	66757 MORANVI4	CKT: 1	142.1	142.0	144.0	144.0	99.5	99.4	0.1
SINGLE 2934 :	60175 ROSEAU 4 -	67576 RICHER 4	CKT: 1	142.1	142.0	144.0	144.0	99.5	99.4	0.1
SINGLE 2192 :	63327 HANKSON4 -	63329 WAHPETN4	CKT: 1	142.0	141.8	144.0	144.0	99.5	99.3	0.2
SINGLE 2055 :	63051 HENNING4 -	63331 FERGSFL4	CKT: 1	141.8	141.7	144.0	144.0	99.5	99.4	0.1
SINGLE 3377 :	62314 BEAR CK8 -	61580 BEARCK 4	CKT: 1	140.8	140.8	144.0	144.0	99.3	99.0	0.3
SINGLE 3318 :	61116 T RNDLK8 -	69050 SISTER B	CKT: 1	141.8	141.6	144.0	144.0	99.3	99.2	0.1
SINGLE 3027 :	60658 IRONWD88 -	60665 IRONWD 9	CKT: 1	141.5	141.4	144.0	144.0	99.2	99.1	0.1
SINGLE 2895 :	60101 FORBES 2 -	61550 FORB1JCT	CKT: 1	141.5	141.4	144.0	144.0	99.2	99.1	0.1
SINGLE 2896 :	60101 FORBES 2 -	61552 FORB2JCT	CKT: 1	141.5	141.4	144.0	144.0	99.2	99.1	0.1
SINGLE 1882 :	62395 BARDON 8 -	62401 AMNCNTP8	CKT: 1	141.5	141.4	144.0	144.0	99.2	99.1	0.1
SINGLE 3316 :	61094 HAYWAR G -	69047 LOU PAC	CKT: 1	141.2	141.0	144.0	144.0	98.9	98.7	0.2
SINGLE 1034 :	60142 BENTON 3 -	60160 SHERCO 3	CKT: 1	140.7	140.6	144.0	144.0	98.9	98.7	0.2
SINGLE 1678 :	61136 EDGWATR8 -	61137 SANDLK 8	CKT: 1	141.1	140.9	144.0	144.0	98.9	98.8	0.1
SINGLE 1384 :	60658 IRONWD88 -	61104 SAXONP88	CKT: 1	140.8	140.6	144.0	144.0	98.7	98.5	0.2
SINGLE 2920 :	60151 MNTCELO3 -	60005 MNTCE31G	CKT: 1	141.3	141.2	144.0	144.0	98.7	98.6	0.1
SINGLE 1387 :	60663 STONELK8 -	61137 SANDLK 8	CKT: 1	140.6	140.4	144.0	144.0	98.5	98.4	0.1
SINGLE 2925 :	60160 SHERCO 3 -	60000 SHERC31G	CKT: 1	140.9	140.8	144.0	144.0	98.4	98.2	0.2
SINGLE 1883 :	62395 BARDON 8 -	62403 STINSON8	CKT: 1	140.3	140.2	144.0	144.0	98.3	98.2	0.1
SINGLE 2926 :	60160 SHERCO 3 -	60001 SHERC32G	CKT: 1	140.9	140.8	144.0	144.0	98.3	98.2	0.1
SINGLE 1383 :	60657 BAYFRT88 -	61104 SAXONP88	CKT: 1	140.3	140.1	144.0	144.0	98.3	98.2	0.1
SINGLE 3000 :	60317 WHEATON5 -	69551 ELK MND5	CKT: 1	140.3	140.2	144.0	144.0	98.3	98.2	0.1
SINGLE 3379 :	62403 STINSON8 -	61683 STIN-MN7	CKT: 1	140.3	140.2	144.0	144.0	98.3	98.2	0.1
SINGLE 2927 :	60160 SHERCO 3 -	60002 SHERC33G	CKT: 1	140.3	140.2	144.0	144.0	97.9	97.7	0.2
SINGLE 1294 :	60288 IRONWD 7 -	60289 HURLEY 7	CKT: 1	139.5	139.4	144.0	144.0	97.8	97.7	0.1
SINGLE 1295 :	60288 IRONWD 7 -	60298 PARKFLS7	CKT: 1	139.3	139.1	144.0	144.0	97.6	97.5	0.1

```
  SINGLE 1296 : 60289 HURLEY 7 - 60350 GINGLES7 CKT: 1   138.8   138.6   144.0   144.0    97.2    97.1     0.1
  SINGLE 2992 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1   137.1   137.1   144.0   144.0    96.2    96.2     0.0
  SINGLE 1318 : 60305 EAU CLA5 - 60317 WHEATON5 CKT: 1   134.8   134.6   144.0   144.0    94.4    94.3     0.1
  SINGLE 2984 : 60295 BAYFRNT7 - 69105 PILSEN7  CKT: 1   129.7   129.7   144.0   144.0    91.8    91.5     0.3
  SINGLE 2981 : 60291 INOPUMP7 - 69105 PILSEN7  CKT: 1   129.5   129.5   144.0   144.0    91.6    91.4     0.2
  SINGLE 1299 : 60291 INOPUMP7 - 60292 IRONRIV7 CKT: 1   128.5   128.4   144.0   144.0    90.7    90.6     0.1
  SINGLE 1303 : 60295 BAYFRNT7 - 60350 GINGLES7 CKT: 1   128.2   128.0   144.0   144.0    90.1    90.0     0.1
  SINGLE 1143 : 60199 CHIS CO3 - 60221 KOLMNLK3 CKT: 1   .....   144.4   .....   144.0   .....   101.4  *ELIM*
  *** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

==================================================================================================================
  65) 61748 BOSWELL7 - 61776 BOSWE71G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1799 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1    77.1    77.1    78.0    78.0    98.9    98.9     0.0
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1    76.1    76.1    78.0    78.0    97.6    97.6     0.0

==================================================================================================================
  66) 61748 BOSWELL7 - 61777 BOSWE72G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1799 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1    79.1    79.1    78.0    78.0   101.4   101.4     0.0
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1    78.1    78.1    78.0    78.0   100.1   100.1     0.0
  BASE CASE   : **       BASE CASE      **                76.6    76.6    78.0    78.0    98.1    98.2    -0.1

==================================================================================================================
  67) 61910 MILACA 4 - 62301 MILACA 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1767 : 62124 ZIMERMN8 - 62149 N ER TP8 CKT: 1   108.6   105.2    96.0    96.0   116.3   116.4    -0.1
  SINGLE 1796 : 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1   108.6   105.2    96.0    96.0   116.3   116.4    -0.1
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1   107.1   106.9    96.0    96.0   114.7   114.6     0.1
  680         : ** MULTIPLE CONTINGENCY **               108.2   107.1    96.0    96.0   114.7   114.8    -0.1
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1   107.1   107.1    96.0    96.0   113.6   113.5     0.1
  SINGLE 1851 : 62297 BENTON 8 - 62300 MINDEN 8 CKT: 1   105.8   105.8    96.0    96.0   112.5   112.5     0.0
  SINGLE 1798 : 62180 RIVTON 8 - 62190 OKLWNTP8 CKT: 1   102.5   102.5    96.0    96.0   109.3   109.3     0.0
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1   101.4    99.5    96.0    96.0   108.4   108.4     0.0
  SINGLE 1852 : 62298 MAYHWTP8 - 62300 MINDEN 8 CKT: 1   102.1   102.0    96.0    96.0   108.3   108.3     0.0
  665         : ** MULTIPLE CONTINGENCY **               101.0   100.9    96.0    96.0   106.7   106.6     0.1
              : 63043 ELK RIV4 - 60152 MNTCELO4 CKT: 1
              : 63043 ELK RIV4 - 62134 ELKR14S8 CKT: 1
  SINGLE 1811 : 62190 OKLWNTP8 - 62191 PINCTRT8 CKT: 1    99.2    99.2    96.0    96.0   105.4   105.4     0.0
  SINGLE 1060 : 60152 MNTCELO4 - 63043 ELK RIV4 CKT: 1    96.9    96.6    96.0    96.0   101.9   101.8     0.1
  SINGLE 1813 : 62191 PINCTRT8 - 62651 VINLDTP8 CKT: 1    95.3    95.3    96.0    96.0   101.0   101.0     0.0
  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1    94.9    94.9    96.0    96.0   101.0   101.0     0.0
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1    94.1    94.1    96.0    96.0   100.1   100.0     0.1
  009   2     : ** MULTIPLE CONTINGENCY **                94.2    94.2    96.0    96.0    99.7    99.7     0.0
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
              : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1
              : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
              : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
              : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
              : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
  SINGLE 1971 : 62650 VINELND8 - 62651 VINLDTP8 CKT: 1    93.9    93.8    96.0    96.0    99.4    99.3     0.1
  SINGLE 1842 : 62286 PIPE2TP8 - 62298 MAYHWTP8 CKT: 1    93.9    93.8    96.0    96.0    99.3    99.2     0.1
  SHC-CNC/BUL3: ** MULTIPLE CONTINGENCY **                 93.2    93.2    96.0    96.0    98.6    98.6     0.0
              : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
              : 60160 SHERCO 3 - 63031 BUNKER 3 CKT: 1
  SHC-CNC/ECK3: ** MULTIPLE CONTINGENCY **                 93.3    93.3    96.0    96.0    98.6    98.6     0.0
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1
  SINGLE 1841 : 62286 PIPE2TP8 - 62290 MAYHWSW8 CKT: 1    92.2    92.2    96.0    96.0    97.5    97.5     0.0
  009   1     : ** MULTIPLE CONTINGENCY **                91.8    91.7    96.0    96.0    97.4    97.3     0.1
```

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              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
              : 60151 MNTCELO3 - 60160 SHERCO 3 CKT: 1
              : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
              : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
              : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
670     2     : ** MULTIPLE CONTINGENCY **                 91.4    91.4    96.0    96.0    97.1    97.1     0.0
              : 63031 BUNKER 3 - 60160 SHERCO 3 CKT: 1
              : 63031 BUNKER 3 - 60202 COON CK3 CKT: 1
              : 63046 BUNKER 4 - 63031 BUNKER 3 CKT: 1
SINGLE 1826 : 62275 PINECTY8 - 62285 RUSH SW8 CKT: 1    90.8    90.8    96.0    96.0    96.2    96.2     0.0
SINGLE 1824 : 62274 RUSHCYD8 - 62285 RUSH SW8 CKT: 1    90.8    90.8    96.0    96.0    96.2    96.2     0.0
SINGLE 1821 : 62272 GILMAN 8 - 62290 MAYHWSW8 CKT: 1    90.4    90.4    96.0    96.0    95.5    95.5     0.0
009   7     : ** MULTIPLE CONTINGENCY **                 90.2    90.2    96.0    96.0    95.3    95.3     0.0
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
              : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
              : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
              : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
              : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 2037 : 63031 BUNKER 3 - 63046 BUNKER 4 CKT: 1    89.7    89.7    96.0    96.0    95.2    95.2     0.0
SINGLE 974  : 60114 ELM CRK3 - 60151 MNTCELO3 CKT: 1    89.6    89.6    96.0    96.0    94.6    94.6     0.0
SINGLE 1782 : 62134 ELKR14S8 - 63043 ELK RIV4 CKT: 2    89.4    89.3    96.0    96.0    94.5    94.4     0.1
765           : ** MULTIPLE CONTINGENCY **                 89.2    89.2    96.0    96.0    94.5    94.5     0.0
              : 63048 RUSH CY4 - 60237 REDROCK4 CKT: 1
              : 60236 REDROCK3 - 60237 REDROCK4 CKT: 1
              : 60361 ROCKCR 4 - 63048 RUSH CY4 CKT: 1
660           : ** MULTIPLE CONTINGENCY **                 89.2    89.1    96.0    96.0    94.4    94.3     0.1
              : 63043 ELK RIV4 - 63046 BUNKER 4 CKT: 1
              : 63043 ELK RIV4 - 62134 ELKR14S8 CKT: 2
009   8     : ** MULTIPLE CONTINGENCY **                 89.7    89.6    96.0    96.0    94.4    94.4     0.0
              : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
              : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
              : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
              : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
              : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
009   6     : ** MULTIPLE CONTINGENCY **                 88.9    88.9    96.0    96.0    94.0    94.0     0.0
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
              : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
              : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
              : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 1079 : 60160 SHERCO 3 - 63031 BUNKER 3 CKT: 1    88.9    88.9    96.0    96.0    94.0    93.9     0.1
SINGLE 1790 : 62141 ISANTTP8 - 62296 INDSTTP8 CKT: 1    88.8    88.8    96.0    96.0    94.0    93.9     0.1
670     3     : ** MULTIPLE CONTINGENCY **                 88.9    88.9    96.0    96.0    93.9    93.9     0.0
              : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
              : 60202 COON CK3 - 61487 CNCMID2Y CKT: 1
              : 61487 CNCMID2Y - 60203 COON CK7 CKT: 1
              : 61487 CNCMID2Y - 60655 CNCTER29 CKT: 1
SINGLE 1744 : 62106 FOREST 8 - 62108 HUGO   8 CKT: 1    88.8    88.7    96.0    96.0    93.9    93.8     0.1
SINGLE 1972 : 62650 VINELND8 - 62652 RUMRVTP8 CKT: 1    88.9    88.8    96.0    96.0    93.9    93.8     0.1
CNC-KOL/TER3: ** MULTIPLE CONTINGENCY **                 88.7    88.5    96.0    96.0    93.7    93.6     0.1
              : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
              : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
022       3 : ** MULTIPLE CONTINGENCY **                 88.7    88.4    96.0    96.0    93.6    93.4     0.2
              : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
              : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
              : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
              : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
              : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
              : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
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SINGLE 1740 : 62104 COOPERC8 - 62143 ATHNSSW8 CKT: 1    88.4    88.4    96.0    96.0    93.6    93.4     0.2
SINGLE 1078 : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1    88.4    88.3    96.0    96.0    93.4    93.4     0.0
SINGLE 1154 : 60202 COON CK3 - 60272 MPLEGV23 CKT: 1    88.4    88.4    96.0    96.0    93.4    93.4     0.0
CNC-SHC/BUL3: ** MULTIPLE CONTINGENCY **                88.5    88.3    96.0    96.0    93.3    93.3     0.0
            : 60202 COON CK3 - 60160 SHERCO 3 CKT: 1
            : 60202 COON CK3 - 63031 BUNKER 3 CKT: 1
SINGLE 1933 : 62479 BALLCLB8 - 62487 DEER RV8 CKT: 1    88.0    88.0    96.0    96.0    93.0    93.0     0.0
SINGLE 1846 : 62293 RUSH CY8 - 62294 RUSH TP8 CKT: 1    87.9    87.8    96.0    96.0    93.0    92.8     0.2
SINGLE 1849 : 62294 RUSH TP8 - 63022 CAMBRDG8 CKT: 1    87.9    87.6    96.0    96.0    93.0    92.8     0.2
022       1 : ** MULTIPLE CONTINGENCY **                88.2    88.1    96.0    96.0    93.0    93.0     0.0
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
            : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
            : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
            : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
SINGLE 1773 : 62128 BLAINE 8 - 63040 BLAINE 4 CKT: 1    88.0    87.8    96.0    96.0    92.9    92.7     0.2
SINGLE 2038 : 63040 BLAINE 4 - 63046 BUNKER 4 CKT: 1    88.0    88.0    96.0    96.0    92.9    92.9     0.0
SINGLE 1059 : 60151 MNTCELO3 - 60160 SHERCO 3 CKT: 1    87.6    87.5    96.0    96.0    92.7    92.6     0.1
SINGLE 1770 : 62126 PIPELIN8 - 62134 ELKR14S8 CKT: 1    87.7    87.6    96.0    96.0    92.7    92.6     0.1
SINGLE 1795 : 62147 BNKRLK 8 - 63046 BUNKER 4 CKT: 1    88.0    87.8    96.0    96.0    92.7    92.7     0.0
PKL-DKN/ECK3: ** MULTIPLE CONTINGENCY **                87.7    87.7    96.0    96.0    92.6    92.6     0.0
            : 60233 PARKERS3 - 60270 MPLEGV13 CKT: 1
            : 60233 PARKERS3 - 60114 ELM CRK3 CKT: 1
009   5     : ** MULTIPLE CONTINGENCY **                87.7    87.7    96.0    96.0    92.6    92.6     0.0
            : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
            : 63030 DICKNSN3 - 60270 MPLEGV13 CKT: 1
            : 60270 MPLEGV13 - 60233 PARKERS3 CKT: 1
SINGLE 1932 : 62479 BALLCLB8 - 62483 BENA TP8 CKT: 1    87.6    87.6    96.0    96.0    92.5    92.6    -0.1
SINGLE 1936 : 62482 SALEMSW8 - 62483 BENA TP8 CKT: 1    87.5    87.5    96.0    96.0    92.4    92.4     0.0
SINGLE 1771 : 62126 PIPELIN8 - 62135 STFRNCS8 CKT: 1    87.5    87.3    96.0    96.0    92.4    92.3     0.1
SINGLE 1043 : 60146 GRANCTY7 - 60161 STREGIS7 CKT: 1    88.0    88.0    96.0    96.0    92.4    92.4     0.0
SINGLE 3055 : 60717 WAKEFLD8 - 62846 FRHV TP8 CKT: 1    87.5    87.5    96.0    96.0    92.4    92.4     0.0
SINGLE 1748 : 62110 JOHNSVL8 - 62132 PRKWOOD8 CKT: 1    87.3   .....    96.0   .....    92.3   .....   *NEW*
650         : ** MULTIPLE CONTINGENCY **                87.4    87.2    96.0    96.0    92.2    92.1     0.1
            : 62090 PRKWOOD7 - 60205 CRKEDLK7 CKT: 1
            : 62090 PRKWOOD7 - 62132 PRKWOOD8 CKT: 1
SINGLE 1230 : 60236 REDROCK3 - 60237 REDROCK4 CKT: 1    87.3    87.2    96.0    96.0    92.2    92.1     0.1
SINGLE 3051 : 60705 LUXBGTP8 - 62846 FRHV TP8 CKT: 1    87.3    87.3    96.0    96.0    92.2    92.2     0.0
SINGLE 1233 : 60237 REDROCK4 - 63048 RUSH CY4 CKT: 1    87.2    87.2    96.0    96.0    92.1    92.0     0.1
BASE CASE   : **       BASE CASE      **                86.2    86.2    96.0    96.0    91.0    91.0     0.0
SINGLE 1057 : 60151 MNTCELO3 - 60152 MNTCELO4 CKT: 1    85.2    84.8    96.0    96.0    90.4    90.3     0.1

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 68) 62090 PRKWOOD7 - 62132 PRKWOOD8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 1727 : 62090 PRKWOOD7 - 62132 PRKWOOD8 CKT: 2   157.7   157.7    84.0    84.0   187.8   187.7     0.1
SINGLE 1795 : 62147 BNKRLK 8 - 63046 BUNKER 4 CKT: 1   118.2   118.2    84.0    84.0   140.7   140.7     0.0
SINGLE 1773 : 62128 BLAINE 8 - 63040 BLAINE 4 CKT: 1   115.4   115.3    84.0    84.0   137.4   137.2     0.2
SINGLE 1060 : 60152 MNTCELO4 - 63043 ELK RIV4 CKT: 1   107.9   107.9    84.0    84.0   128.4   128.4     0.0
SINGLE 1736 : 62101 BUNKER 8 - 62147 BNKRLK 8 CKT: 1   103.7   103.7    84.0    84.0   123.4   123.5    -0.1
SINGLE 1057 : 60151 MNTCELO3 - 60152 MNTCELO4 CKT: 1   102.3   102.3    84.0    84.0   121.8   121.8     0.0
SINGLE 1034 : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1   101.8   101.7    84.0    84.0   121.2   121.1     0.1
SINGLE 1772 : 62128 BLAINE 8 - 62130 LXNGTSW8 CKT: 1   101.6   101.6    84.0    84.0   120.9   121.0    -0.1
SINGLE 1781 : 62134 ELKR14S8 - 63043 ELK RIV4 CKT: 1   101.4   101.4    84.0    84.0   120.7   120.7     0.0
SINGLE 1742 : 62105 DAYTON 8 - 62114 RDFTAP 8 CKT: 1   100.3   100.3    84.0    84.0   119.4   119.4     0.0
SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1    98.9    98.9    84.0    84.0   117.7   117.7     0.0
SINGLE 1770 : 62126 PIPELIN8 - 62134 ELKR14S8 CKT: 1    98.8    98.8    84.0    84.0   117.7   117.6     0.1
SINGLE 1771 : 62126 PIPELIN8 - 62135 STFRNCS8 CKT: 1    98.1    98.1    84.0    84.0   116.8   116.8     0.0
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SINGLE 1731	: 62098 ANOKA 8 - 62134 ELKR14S8 CKT: 1	97.7	97.7	84.0	84.0	116.3	116.3	0.0
SINGLE 1823	: 62273 MILACAD8 - 62301 MILACA 8 CKT: 1	97.1	97.1	84.0	84.0	115.6	115.6	0.0
SINGLE 1233	: 60237 REDROCK4 - 63048 RUSH CY4 CKT: 1	96.9	96.9	84.0	84.0	115.4	115.4	0.0
SINGLE 1743	: 62105 DAYTON 8 - 62146 ENTPRTP8 CKT: 1	96.8	96.8	84.0	84.0	115.2	115.2	0.0
SINGLE 1846	: 62293 RUSH CY8 - 62294 RUSH TP8 CKT: 1	96.5	96.4	84.0	84.0	114.9	114.8	0.1
SINGLE 1782	: 62134 ELKR14S8 - 63043 ELK RIV4 CKT: 2	96.4	96.4	84.0	84.0	114.7	114.8	-0.1
SINGLE 1847	: 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1	96.2	96.2	84.0	84.0	114.5	114.5	0.0
SINGLE 1825	: 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1	95.9	95.9	84.0	84.0	114.2	114.1	0.1
SINGLE 1230	: 60236 REDROCK3 - 60237 REDROCK4 CKT: 1	95.8	95.8	84.0	84.0	114.1	114.0	0.1
SINGLE 1370	: 60361 ROCKCR 4 - 63048 RUSH CY4 CKT: 1	95.2	95.2	84.0	84.0	113.3	113.4	-0.1
SINGLE 1791	: 62144 SDRVLSW8 - 62148 BNKLKTP8 CKT: 1	95.1	95.1	84.0	84.0	113.2	113.2	0.0
SINGLE 1834	: 62280 OGILVIE8 - 62301 MILACA 8 CKT: 1	95.0	95.0	84.0	84.0	113.1	113.1	0.0
SINGLE 1735	: 62101 BUNKER 8 - 62121 VILGTEN8 CKT: 1	94.9	94.9	84.0	84.0	113.0	113.0	0.0
SINGLE 1765	: 62122 WESTEND8 - 62138 BRGGLKS8 CKT: 1	94.9	94.9	84.0	84.0	113.0	113.0	0.0
SINGLE 1729	: 62097 ANDOVER8 - 62098 ANOKA 8 CKT: 1	94.9	94.9	84.0	84.0	113.0	113.0	0.0
SINGLE 1836	: 62280 OGILVIE8 - 62303 MORA 8 CKT: 1	94.8	94.8	84.0	84.0	112.9	112.9	0.0
SINGLE 1798	: 62180 RIVTON 8 - 62190 OKLWNTP8 CKT: 1	94.9	94.9	84.0	84.0	112.9	113.0	-0.1
SINGLE 1069	: 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C	94.7	94.7	84.0	84.0	112.7	112.7	0.0
SINGLE 1366	: 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C	94.7	94.7	84.0	84.0	112.7	112.7	0.0
BASE CASE	: ** BASE CASE **	93.6	93.6	84.0	84.0	111.4	111.5	-0.1
SINGLE 1153	: 60202 COON CK3 - 60251 TERMINL3 CKT: 1	92.6	92.6	84.0	84.0	110.2	110.2	0.0
SINGLE 1745	: 62106 FOREST 8 - 62140 MARTNTP8 CKT: 1	92.6	92.6	84.0	84.0	110.2	110.2	0.0
SINGLE 1158	: 60202 COON CK3 - 63030 DICKNSN3 CKT: 1	92.5	92.5	84.0	84.0	110.2	110.1	0.1
SINGLE 1733	: 62100 BIG LAK8 - 62142 REMMLTP8 CKT: 1	92.6	92.6	84.0	84.0	110.2	110.2	0.0
SINGLE 1261	: 60252 TERMINL7 - 61491 TERMID2Y CKT: 1	92.4	92.4	84.0	84.0	110.0	110.0	0.0
SINGLE 1262	: 60252 TERMINL7 - 61492 TERMID1Y CKT: 1	92.4	92.4	84.0	84.0	110.0	110.0	0.0
SINGLE 1058	: 60151 MNTCELO3 - 60153 MNTCELO7 CKT: 1	92.3	92.3	84.0	84.0	109.9	109.9	0.0
SINGLE 958	: 60108 WILMART3 - 60192 BLUE LK3 CKT: 1	92.1	92.1	84.0	84.0	109.7	109.6	0.1
SINGLE 1758	: 62118 SPRLKPK8 - 62131 HWY65SW8 CKT: 1	92.2	92.2	84.0	84.0	109.7	109.8	-0.1
SINGLE 1776	: 62131 HWY65SW8 - 62133 LXNGTN 8 CKT: 1	92.2	92.2	84.0	84.0	109.7	109.8	-0.1
SINGLE 1750	: 62111 MARTIN 8 - 62140 MARTNTP8 CKT: 1	92.1	92.1	84.0	84.0	109.6	109.7	-0.1
SINGLE 1767	: 62124 ZIMERMN8 - 62149 N ER TP8 CKT: 1	92.0	92.0	84.0	84.0	109.5	109.5	0.0
SINGLE 1190	: 60213 GOPHER 7 - 60226 MAIN ST7 CKT: 1	92.0	92.0	84.0	84.0	109.5	109.5	0.0
SINGLE 1779	: 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1	92.0	92.0	84.0	84.0	109.5	109.5	0.0
SINGLE 1796	: 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1	92.0	92.0	84.0	84.0	109.5	109.5	0.0
SINGLE 1797	: 62150 E BL TP8 - 62965 ELKRWS18 CKT: 1	91.9	91.9	84.0	84.0	109.4	109.4	0.0
SINGLE 1734	: 62100 BIG LAK8 - 62150 E BL TP8 CKT: 1	91.9	91.9	84.0	84.0	109.4	109.4	0.0
SINGLE 1754	: 62116 RAMSEY 8 - 62146 ENTPRTP8 CKT: 1	91.8	91.8	84.0	84.0	109.3	109.3	0.0
SINGLE 959	: 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1	91.6	.....	84.0	.....	109.0	.....	*NEW*
SINGLE 1746	: 62108 HUGO 8 - 62128 BLAINE 8 CKT: 1	91.5	91.4	84.0	84.0	109.0	108.8	0.2
SINGLE 1792	: 62144 SDRVLSW8 - 62152 HAMLAKE8 CKT: 1	91.5	91.5	84.0	84.0	108.9	109.0	-0.1
SINGLE 1778	: 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1	91.2	91.2	84.0	84.0	108.6	108.5	0.1
SINGLE 1744	: 62106 FOREST 8 - 62108 HUGO 8 CKT: 1	91.3	91.2	84.0	84.0	108.6	108.6	0.0
SINGLE 1739	: 62103 CIRCLEP8 - 62145 WHBRLTP8 CKT: 1	91.2	91.2	84.0	84.0	108.6	108.6	0.0
SINGLE 1078	: 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1	91.1	91.1	84.0	84.0	108.5	108.5	0.0
SINGLE 1762	: 62120 WHTBRTW8 - 62145 WHBRLTP8 CKT: 1	91.2	91.2	84.0	84.0	108.5	108.6	-0.1
SINGLE 1154	: 60202 COON CK3 - 60272 MPLEGV23 CKT: 1	91.1	91.1	84.0	84.0	108.4	108.5	-0.1
SINGLE 1747	: 62109 ISANTI 8 - 62141 ISANTTP8 CKT: 1	91.0	91.0	84.0	84.0	108.3	108.3	0.0
SINGLE 1077	: 60160 SHERCO 3 - 60202 COON CK3 CKT: 1	91.0	91.0	84.0	84.0	108.3	108.3	0.0
SINGLE 1516	: 60871 ANOKAMN8 - 62151 ENRGYPK8 CKT: 1	90.8	90.8	84.0	84.0	108.0	108.1	-0.1
SINGLE 1818	: 62270 INDSTRL8 - 62296 INDSTTP8 CKT: 1	90.7	90.7	84.0	84.0	107.9	108.0	-0.1
SINGLE 1789	: 62141 ISANTTP8 - 62143 ATHNSSW8 CKT: 1	90.4	90.4	84.0	84.0	107.6	107.6	0.0
SINGLE 1740	: 62104 COOPERC8 - 62143 ATHNSSW8 CKT: 1	90.2	90.1	84.0	84.0	107.4	107.3	0.1
SINGLE 1755	: 62116 RAMSEY 8 - 62147 BNKRLK 8 CKT: 1	89.1	89.0	84.0	84.0	106.0	106.0	0.0
SINGLE 1793	: 62146 ENTPRTP8 - 62151 ENRGYPK8 CKT: 1	89.0	89.0	84.0	84.0	105.9	105.9	0.0
SINGLE 1738	: 62103 CIRCLEP8 - 62130 LXNGTSW8 CKT: 1	88.9	88.9	84.0	84.0	105.8	105.8	0.0
SINGLE 1741	: 62104 COOPERC8 - 62144 SDRVLSW8 CKT: 1	88.5	88.5	84.0	84.0	105.4	105.4	0.0
SINGLE 974	: 60114 ELM CRK3 - 60151 MNTCELO3 CKT: 1	87.7	87.7	84.0	84.0	104.4	104.4	0.0
SINGLE 1748	: 62110 JOHNSVL8 - 62132 PRKWOOD8 CKT: 1	87.0	87.0	84.0	84.0	103.6	103.5	0.1
SINGLE 944	: 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1	86.7	86.6	84.0	84.0	103.2	103.1	0.1
SINGLE 973	: 60114 ELM CRK3 - 60115 ELMCRK 7 CKT: 1	86.2	86.1	84.0	84.0	102.6	102.6	0.0
SINGLE 1142	: 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1	85.7	85.7	84.0	84.0	102.1	102.0	0.1
SINGLE 1759	: 62118 SPRLKPK8 - 62132 PRKWOOD8 CKT: 1	85.8	85.8	84.0	84.0	102.1	102.1	0.0

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  SINGLE 1763 : 62121 VILGTEN8 - 62132 PRKWOOD8 CKT: 1    84.9    84.9    84.0    84.0   101.1   101.0     0.1
  SINGLE 1751 : 62113 NORTHTW8 - 62123 WOODCRT8 CKT: 1    76.0    76.0    84.0    84.0    90.5    90.5     0.0
  SINGLE 1846 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1   .....   110.3   .....    84.0   .....   131.4  *ELIM*
  *** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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  69) 62090 PRKWOOD7 - 62132 PRKWOOD8 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  SINGLE 1795 : 62147 BNKRLK 8 - 63046 BUNKER 4 CKT: 1   135.1   135.1   112.0   112.0   120.6   120.6     0.0
  SINGLE 1773 : 62128 BLAINE 8 - 63040 BLAINE 4 CKT: 1   132.0   131.9   112.0   112.0   117.9   117.8     0.1
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1   126.0   125.9   112.0   112.0   112.5   112.4     0.1
  SINGLE 1060 : 60152 MNTCELO4 - 63043 ELK RIV4 CKT: 1   123.9   123.9   112.0   112.0   110.6   110.7    -0.1
  SINGLE 1736 : 62101 BUNKER 8 - 62147 BNKRLK 8 CKT: 1   118.4   118.4   112.0   112.0   105.7   105.7     0.0
  SINGLE 1057 : 60151 MNTCELO3 - 60152 MNTCELO4 CKT: 1   117.1   117.0   112.0   112.0   104.5   104.5     0.0
  SINGLE 1034 : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1   116.4   116.4   112.0   112.0   104.0   103.9     0.1
  SINGLE 1781 : 62134 ELKR14S8 - 63043 ELK RIV4 CKT: 1   115.9   115.9   112.0   112.0   103.5   103.5     0.0
  SINGLE 1753 : 62114 RDFTAP 8 - 63020 ELK RIV8 CKT: 1   114.9   114.9   112.0   112.0   102.6   102.6     0.0
  SINGLE 1742 : 62105 DAYTON 8 - 62114 RDFTAP 8 CKT: 1   114.4   114.4   112.0   112.0   102.1   102.1     0.0
  SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1   112.7   112.7   112.0   112.0   100.6   100.6     0.0
  SINGLE 1770 : 62126 PIPELIN8 - 62134 ELKR14S8 CKT: 1   112.4   112.3   112.0   112.0   100.3   100.3     0.0
  SINGLE 1771 : 62126 PIPELIN8 - 62135 STFRNCS8 CKT: 1   111.6   111.5   112.0   112.0    99.6    99.6     0.0
  SINGLE 1731 : 62098 ANOKA  8 - 62134 ELKR14S8 CKT: 1   111.4   111.4   112.0   112.0    99.5    99.5     0.0
  SINGLE 1823 : 62273 MILACAD8 - 62301 MILACA 8 CKT: 1   110.5   110.5   112.0   112.0    98.6    98.7    -0.1
  SINGLE 1233 : 60237 REDROCK4 - 63048 RUSH CY4 CKT: 1   110.3   110.2   112.0   112.0    98.5    98.4     0.1
  SINGLE 1846 : 62293 RUSH CY8 - 62294 RUSH TP8 CKT: 1   109.6   109.5   112.0   112.0    97.8    97.8     0.0
  SINGLE 1849 : 62294 RUSH TP8 - 63022 CAMBRDG8 CKT: 1   109.6   109.5   112.0   112.0    97.8    97.8     0.0
  SINGLE 1831 : 62278 HARRIS 8 - 62293 RUSH CY8 CKT: 1   109.2   109.2   112.0   112.0    97.5    97.5     0.0
  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1   109.2   109.2   112.0   112.0    97.5    97.5     0.0
  SINGLE 1230 : 60236 REDROCK3 - 60237 REDROCK4 CKT: 1   109.1   109.1   112.0   112.0    97.4    97.4     0.0
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1   108.9   108.8   112.0   112.0    97.2    97.2     0.0
  SINGLE 1370 : 60361 ROCKCR 4 - 63048 RUSH CY4 CKT: 1   108.4   108.4   112.0   112.0    96.7    96.8    -0.1
  SINGLE 1791 : 62144 SDRVLSW8 - 62148 BNKLKTP8 CKT: 1   108.1   108.1   112.0   112.0    96.5    96.6    -0.1
  SINGLE 1729 : 62097 ANDOVER8 - 62098 ANOKA  8 CKT: 1   108.0   108.0   112.0   112.0    96.4    96.4     0.0
  SINGLE 1798 : 62180 RIVTON 8 - 62190 OKLWNTP8 CKT: 1   108.0   108.0   112.0   112.0    96.4    96.4     0.0
  SINGLE 1998 : 62925 DICKNSN7 - 62947 DICKIN 8 CKT: 1   108.0   108.0   112.0   112.0    96.4    96.4     0.0
  SINGLE 1836 : 62280 OGILVIE8 - 62303 MORA   8 CKT: 1   107.9   107.9   112.0   112.0    96.3    96.3     0.0
  SINGLE 1775 : 62130 LXNGTSW8 - 62133 LXNGTN 8 CKT: 1   107.9   107.9   112.0   112.0    96.3    96.4    -0.1
  SINGLE 1069 : 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C   107.7   107.7   112.0   112.0    96.2    96.2     0.0
  SINGLE 1966 : 62642 ONAMIA 8 - 62652 RUMRVTP8 CKT: 1   107.8   107.8   112.0   112.0    96.2    96.2     0.0
  SINGLE 1366 : 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C   107.7   107.7   112.0   112.0    96.2    96.2     0.0
  SINGLE 1999 : 62925 DICKNSN7 - 63030 DICKNSN3 CKT: 1   107.6   107.6   112.0   112.0    96.1    96.1     0.0
  SINGLE 1819 : 62271 LONGSDG8 - 62273 MILACAD8 CKT: 1   107.6   107.6   112.0   112.0    96.0    96.1    -0.1
  SINGLE 1783 : 62135 STFRNCS8 - 62143 ATHNSSW8 CKT: 1   107.5   107.5   112.0   112.0    96.0    96.0     0.0
  SINGLE 1995 : 62921 CEDARIL7 - 62923 ARBORLK7 CKT: 1   107.5   107.5   112.0   112.0    96.0    96.0     0.0
  SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   107.5   107.5   112.0   112.0    96.0    96.0     0.0
  SINGLE 1830 : 62278 HARRIS 8 - 62282 NBRNCH 8 CKT: 1   107.6   107.6   112.0   112.0    96.0    96.1    -0.1
  SINGLE 1811 : 62190 OKLWNTP8 - 62191 PINCTRT8 CKT: 1   107.5   107.5   112.0   112.0    95.9    96.0    -0.1
  SINGLE 1062 : 60153 MNTCELO7 - 60166 SALIDA 7 CKT: 1   107.4   .....   112.0   .....    95.9   .....   *NEW*
  SINGLE 1161 : 60203 COON CK7 - 60253 TWIN LK7 CKT: 1   107.4   107.4   112.0   112.0    95.9    95.9     0.0
  SINGLE 1059 : 60151 MNTCELO3 - 60160 SHERCO 3 CKT: 1   107.4   .....   112.0   .....    95.9   .....   *NEW*
  SINGLE 1145 : 60199 CHIS CO3 - 60221 KOLMNLK3 CKT: 1   105.3   105.2   112.0   112.0    94.0    93.9     0.1
  SINGLE 1733 : 62100 BIG LAK8 - 62142 REMMLTP8 CKT: 1   105.2   105.1   112.0   112.0    93.9    93.9     0.0
  SINGLE 1158 : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1   105.1   105.0   112.0   112.0    93.8    93.8     0.0
  SINGLE 1745 : 62106 FOREST 8 - 62140 MARTNTP8 CKT: 1   105.0   105.0   112.0   112.0    93.8    93.8     0.0
  SINGLE 1058 : 60151 MNTCELO3 - 60153 MNTCELO7 CKT: 1   105.0   104.9   112.0   112.0    93.7    93.7     0.0
  SINGLE 1262 : 60252 TERMINL7 - 61492 TERMID1Y CKT: 1   104.9   104.9   112.0   112.0    93.7    93.7     0.0
  SINGLE 2000 : 62929 ALBERTV8 - 62938 OTSEGO 8 CKT: 1   104.9   104.9   112.0   112.0    93.7    93.6     0.1
  SINGLE 1777 : 62134 ELKR14S8 - 62966 ELKREST8 CKT: 1   104.8   104.8   112.0   112.0    93.6    93.6     0.0
  SINGLE 1261 : 60252 TERMINL7 - 61491 TERMID2Y CKT: 1   104.9   104.9   112.0   112.0    93.6    93.7    -0.1
  SINGLE 1776 : 62131 HWY65SW8 - 62133 LXNGTN 8 CKT: 1   104.7   104.7   112.0   112.0    93.4    93.5    -0.1
  SINGLE 1750 : 62111 MARTIN 8 - 62140 MARTNTP8 CKT: 1   104.6   104.6   112.0   112.0    93.4    93.4     0.0
  SINGLE 1758 : 62118 SPRLKPK8 - 62131 HWY65SW8 CKT: 1   104.7   104.7   112.0   112.0    93.4    93.5    -0.1
  SINGLE 1754 : 62116 RAMSEY 8 - 62146 ENTPRTP8 CKT: 1   104.3   104.3   112.0   112.0    93.2    93.1     0.1
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SINGLE 1734 : 62100 BIG LAK8 - 62150 E BL TP8 CKT: 1   104.3   104.3   112.0   112.0    93.2    93.1     0.1
SINGLE 1767 : 62124 ZIMERMN8 - 62149 N ER TP8 CKT: 1   104.4   104.4   112.0   112.0    93.2    93.2     0.0
SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   104.4   104.3   112.0   112.0    93.2    93.2     0.0
SINGLE 1779 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1   104.4   104.4   112.0   112.0    93.2    93.2     0.0
SINGLE 1796 : 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1   104.4   104.4   112.0   112.0    93.2    93.2     0.0
SINGLE 1797 : 62150 E BL TP8 - 62965 ELKRWS18 CKT: 1   104.3   104.3   112.0   112.0    93.2    93.1     0.1
SINGLE 1792 : 62144 SDRVLSW8 - 62152 HAMLAKE8 CKT: 1   104.0   104.0   112.0   112.0    92.9    92.9     0.0
SINGLE 1191 : 60213 GOPHER 7 - 60252 TERMINL7 CKT: 1   103.9   103.9   112.0   112.0    92.8    92.8     0.0
SINGLE 1790 : 62141 ISANTTP8 - 62296 INDSTTP8 CKT: 1   104.0   104.0   112.0   112.0    92.8    92.8     0.0
SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   103.9   .....   112.0   .....    92.7   .....   *NEW*
SINGLE 1746 : 62108 HUGO   8 - 62128 BLAINE 8 CKT: 1   103.6   103.4   112.0   112.0    92.5    92.4     0.1
SINGLE 1744 : 62106 FOREST 8 - 62108 HUGO   8 CKT: 1   103.4   103.4   112.0   112.0    92.3    92.3     0.0
SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1   103.4   103.4   112.0   112.0    92.3    92.3     0.0
SINGLE 1154 : 60202 COON CK3 - 60272 MPLEGV23 CKT: 1   103.2   103.2   112.0   112.0    92.2    92.2     0.0
SINGLE 1077 : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1   103.2   103.2   112.0   112.0    92.1    92.1     0.0
SINGLE 1747 : 62109 ISANTI 8 - 62141 ISANTTP8 CKT: 1   103.2   103.2   112.0   112.0    92.1    92.2    -0.1
SINGLE 1516 : 60871 ANOKAMN8 - 62151 ENRGYPK8 CKT: 1   103.0   103.0   112.0   112.0    91.9    91.9     0.0
SINGLE 1818 : 62270 INDSTRL8 - 62296 INDSTTP8 CKT: 1   102.9   102.9   112.0   112.0    91.8    91.9    -0.1
SINGLE 1789 : 62141 ISANTTP8 - 62143 ATHNSSW8 CKT: 1   102.4   102.4   112.0   112.0    91.5    91.5     0.0
SINGLE 1740 : 62104 COOPERC8 - 62143 ATHNSSW8 CKT: 1   102.3   102.2   112.0   112.0    91.3    91.3     0.0
SINGLE 1755 : 62116 RAMSEY 8 - 62147 BNKRLK 8 CKT: 1   101.1   101.1   112.0   112.0    90.3    90.2     0.1
SINGLE 1118 : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C   .....   105.3   .....   112.0   .....    94.0  *ELIM*
SINGLE 1119 : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1   .....   105.3   .....   112.0   .....    94.0  *ELIM*
SINGLE 2006 : 62934 HOWARDL8 - 62943 VICTOR 8 CKT: 1   .....   107.5   .....   112.0   .....    96.0  *ELIM*
*** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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70) 62109 ISANTI 8 - 62141 ISANTTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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BASE CASE   : **       BASE CASE      **                18.1    18.1    17.3    17.3   111.1   111.1     0.0

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71) 62126 PIPELIN8 - 62134 ELKR14S8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 1741 : 62104 COOPERC8 - 62144 SDRVLSW8 CKT: 1    64.3    64.2    47.0    47.0   144.6   144.5     0.1
SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1    61.7    61.7    47.0    47.0   139.0   139.0     0.0
SINGLE 1740 : 62104 COOPERC8 - 62143 ATHNSSW8 CKT: 1    55.9    55.8    47.0    47.0   124.0   123.8     0.2
SINGLE 1846 : 62293 RUSH CY8 - 62294 RUSH TP8 CKT: 1    47.9    47.9    47.0    47.0   105.7   105.6     0.1
SINGLE 1849 : 62294 RUSH TP8 - 63022 CAMBRDG8 CKT: 1    47.9    47.9    47.0    47.0   105.7   105.6     0.1
SINGLE 1791 : 62144 SDRVLSW8 - 62148 BNKLKTP8 CKT: 1    46.2    46.1    47.0    47.0   100.9   100.9     0.0
SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1    45.5    45.5    47.0    47.0   100.0    99.9     0.1
SINGLE 1773 : 62128 BLAINE 8 - 63040 BLAINE 4 CKT: 1    45.8    45.8    47.0    47.0    99.7    99.6     0.1
SINGLE 1746 : 62108 HUGO   8 - 62128 BLAINE 8 CKT: 1    45.6    45.5    47.0    47.0    99.6    99.4     0.2
009   2     : ** MULTIPLE CONTINGENCY **                45.2    45.2    47.0    47.0    98.5    98.4     0.1
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1
            : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1    44.7    44.7    47.0    47.0    98.3    98.2     0.1
SINGLE 1748 : 62110 JOHNSVL8 - 62132 PRKWOOD8 CKT: 1    44.6    44.6    47.0    47.0    97.9    97.8     0.1
SINGLE 1731 : 62098 ANOKA  8 - 62134 ELKR14S8 CKT: 1    44.8    44.8    47.0    47.0    97.6    97.5     0.1
765         : ** MULTIPLE CONTINGENCY **                44.5    44.5    47.0    47.0    97.6    97.5     0.1
            : 63048 RUSH CY4 - 60237 REDROCK4 CKT: 1
            : 60236 REDROCK3 - 60237 REDROCK4 CKT: 1
            : 60361 ROCKCR 4 - 63048 RUSH CY4 CKT: 1
SINGLE 1744 : 62106 FOREST 8 - 62108 HUGO   8 CKT: 1    44.4    44.3    47.0    47.0    97.0    96.9     0.1
SINGLE 1753 : 62114 RDFTAP 8 - 63020 ELK RIV8 CKT: 1    44.7    44.7    47.0    47.0    97.0    96.9     0.1
SINGLE 1834 : 62280 OGILVIE8 - 62301 MILACA 8 CKT: 1    44.3    44.3    47.0    47.0    96.9    97.0    -0.1
SINGLE 1742 : 62105 DAYTON 8 - 62114 RDFTAP 8 CKT: 1    44.5    44.5    47.0    47.0    96.6    96.5     0.1
SINGLE 1836 : 62280 OGILVIE8 - 62303 MORA   8 CKT: 1    44.2    44.2    47.0    47.0    96.5    96.4     0.1
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SINGLE 1767 : 62124 ZIMERMN8 - 62149 N ER TP8 CKT: 1    44.3    44.2    47.0    47.0    96.0    95.9     0.1
SINGLE 1796 : 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1    44.3    44.2    47.0    47.0    96.0    95.9     0.1
SINGLE 1779 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1    44.2    44.2    47.0    47.0    96.0    95.9     0.1
SHC-CNC/ECK3: ** MULTIPLE CONTINGENCY **                43.9    43.9    47.0    47.0    95.5    95.5     0.0
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1
670     1   : ** MULTIPLE CONTINGENCY **                43.7    43.7    47.0    47.0    95.4    95.4     0.0
            : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
            : 63031 BUNKER 3 - 60160 SHERCO 3 CKT: 1
            : 63031 BUNKER 3 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61487 CNCMID2Y CKT: 1
            : 61487 CNCMID2Y - 60203 COON CK7 CKT: 1
            : 61487 CNCMID2Y - 60655 CNCTER29 CKT: 1
            : 63046 BUNKER 4 - 63031 BUNKER 3 CKT: 1
SINGLE 1832 : 62279 BRAHAM 8 - 62291 GRASTON8 CKT: 1    43.4    43.4    47.0    47.0    95.0    94.9     0.1
SINGLE 1166 : 60203 COON CK7 - 62090 PRKWOOD7 CKT: 1    43.6    43.6    47.0    47.0    95.0    94.9     0.1
SINGLE 1850 : 62296 INDSTTP8 - 63022 CAMBRDG8 CKT: 1    43.3    43.3    47.0    47.0    94.8    94.7     0.1
SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1    43.6    43.6    47.0    47.0    94.8    94.7     0.1
SINGLE 1795 : 62147 BNKRLK 8 - 63046 BUNKER 4 CKT: 1    43.4    43.3    47.0    47.0    94.5    94.4     0.1
SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1    43.2    43.2    47.0    47.0    94.4    94.3     0.1
SINGLE 1826 : 62275 PINECTY8 - 62285 RUSH SW8 CKT: 1    43.2    43.2    47.0    47.0    94.4    94.4     0.0
SINGLE 1824 : 62274 RUSHCYD8 - 62285 RUSH SW8 CKT: 1    43.2    43.2    47.0    47.0    94.4    94.4     0.0
SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1    43.2    43.1    47.0    47.0    94.3    94.2     0.1
CNC-SHC/BUL3: ** MULTIPLE CONTINGENCY **                43.2    43.2    47.0    47.0    94.1    94.1     0.0
            : 60202 COON CK3 - 60160 SHERCO 3 CKT: 1
            : 60202 COON CK3 - 63031 BUNKER 3 CKT: 1
SHC-CNC/BUL3: ** MULTIPLE CONTINGENCY **                43.1    43.1    47.0    47.0    94.0    93.9     0.1
            : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
            : 60160 SHERCO 3 - 63031 BUNKER 3 CKT: 1
SINGLE 1727 : 62090 PRKWOOD7 - 62132 PRKWOOD8 CKT: 2    43.1    43.1    47.0    47.0    94.0    93.9     0.1
009     8   : ** MULTIPLE CONTINGENCY **                43.2    43.2    47.0    47.0    93.9    93.8     0.1
            : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 1966 : 62642 ONAMIA 8 - 62652 RUMRVTP8 CKT: 1    43.0    43.0    47.0    47.0    93.8    93.8     0.0
SINGLE 1743 : 62105 DAYTON 8 - 62146 ENTPRTP8 CKT: 1    43.1    43.1    47.0    47.0    93.8    93.8     0.0
009     4   : ** MULTIPLE CONTINGENCY **                43.1    43.0    47.0    47.0    93.6    93.5     0.1
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 2023 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1    43.2    43.2    47.0    47.0    93.5    93.4     0.1
009     7   : ** MULTIPLE CONTINGENCY **                42.9    42.8    47.0    47.0    93.4    93.4     0.0
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 1726 : 62090 PRKWOOD7 - 62132 PRKWOOD8 CKT: 1    42.8    42.8    47.0    47.0    93.2    93.2     0.0
CNC-KOL/TER3: ** MULTIPLE CONTINGENCY **                42.8    42.8    47.0    47.0    93.2    93.1     0.1
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
022       3 : ** MULTIPLE CONTINGENCY **                42.7    42.7    47.0    47.0    93.1    93.0     0.1
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
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              : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
              : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
              : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
SINGLE 974    : 60114 ELM CRK3 - 60151 MNTCELO3 CKT: 1    42.7    42.7    47.0    47.0    93.0    92.9     0.1
650           : ** MULTIPLE CONTINGENCY **                42.7    42.6    47.0    47.0    93.0    92.9     0.1
              : 62090 PRKWOOD7 - 60205 CRKEDLK7 CKT: 1
              : 62090 PRKWOOD7 - 62132 PRKWOOD8 CKT: 1
SINGLE 3372   : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1    42.6    42.6    47.0    47.0    92.9    92.9     0.0
670     3     : ** MULTIPLE CONTINGENCY **                42.5    42.5    47.0    47.0    92.9    92.8     0.1
              : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
              : 60202 COON CK3 - 61487 CNCMID2Y CKT: 1
              : 61487 CNCMID2Y - 60203 COON CK7 CKT: 1
              : 61487 CNCMID2Y - 60655 CNCTER29 CKT: 1
009   6       : ** MULTIPLE CONTINGENCY **                42.6    42.5    47.0    47.0    92.9    92.9     0.0
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
              : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
              : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
              : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
022         1 : ** MULTIPLE CONTINGENCY **                42.6    42.6    47.0    47.0    92.8    92.8     0.0
              : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
              : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
              : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
              : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
              : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
              : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
              : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
              : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
              : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
              : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
SINGLE 1756   : 62117 SODERVL8 - 62128 BLAINE 8 CKT: 1    42.5    42.5    47.0    47.0    92.8    92.7     0.1
SINGLE 1780   : 62134 ELKR14S8 - 63020 ELK RIV8 CKT: 1    42.6    42.6    47.0    47.0    92.7    92.7     0.0
SINGLE 1233   : 60237 REDROCK4 - 63048 RUSH CY4 CKT: 1    42.5    42.5    47.0    47.0    92.6    92.5     0.1
SINGLE 1845   : 62291 GRASTON8 - 62303 MORA   8 CKT: 1    42.5    42.5    47.0    47.0    92.5    92.5     0.0
CNC-DKN/SHC3: ** MULTIPLE CONTINGENCY **                  42.5    42.5    47.0    47.0    92.4    92.3     0.1
              : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1
              : 60202 COON CK3 - 60272 MPLEGV23 CKT: 1
SINGLE 1230   : 60236 REDROCK3 - 60237 REDROCK4 CKT: 1    42.4    42.4    47.0    47.0    92.4    92.3     0.1
SINGLE 1729   : 62097 ANDOVER8 - 62098 ANOKA  8 CKT: 1    42.4    42.4    47.0    47.0    92.4    92.4     0.0
SINGLE 1797   : 62150 E BL TP8 - 62965 ELKRWS18 CKT: 1    42.6    42.6    47.0    47.0    92.3    92.2     0.1
SINGLE 1734   : 62100 BIG LAK8 - 62150 E BL TP8 CKT: 1    42.6    42.6    47.0    47.0    92.3    92.2     0.1
BASE CASE     : **       BASE CASE      **                41.4    41.4    47.0    47.0    90.1    90.1     0.0

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 72) 62128 BLAINE 8 - 63040 BLAINE 4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 1848   : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1   127.6   127.6    95.6    95.6   133.5   133.5     0.0
SINGLE 1759   : 62118 SPRLKPK8 - 62132 PRKWOOD8 CKT: 1   118.4   118.4    95.6    95.6   123.9   123.9     0.0
SINGLE 1795   : 62147 BNKRLK 8 - 63046 BUNKER 4 CKT: 1   111.5   111.5    95.6    95.6   116.6   116.6     0.0
SINGLE 1166   : 60203 COON CK7 - 62090 PRKWOOD7 CKT: 1   110.3   110.3    95.6    95.6   115.4   115.4     0.0
SINGLE 1831   : 62278 HARRIS 8 - 62293 RUSH CY8 CKT: 1   106.9   106.9    95.6    95.6   111.8   111.9    -0.1
SINGLE 1727   : 62090 PRKWOOD7 - 62132 PRKWOOD8 CKT: 2   106.8   106.8    95.6    95.6   111.7   111.7     0.0
SINGLE 1781   : 62134 ELKR14S8 - 63043 ELK RIV4 CKT: 1   100.4   100.4    95.6    95.6   105.0   105.0     0.0
SINGLE 1770   : 62126 PIPELIN8 - 62134 ELKR14S8 CKT: 1   100.3   100.3    95.6    95.6   104.9   104.9     0.0
SINGLE 1142   : 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1   100.0   100.0    95.6    95.6   104.6   104.6     0.0
SINGLE 1771   : 62126 PIPELIN8 - 62135 STFRNCS8 CKT: 1    99.6    99.6    95.6    95.6   104.1   104.2    -0.1
SINGLE 1159   : 60202 COON CK3 - 63031 BUNKER 3 CKT: 1    99.1    99.1    95.6    95.6   103.7   103.7     0.0
SINGLE 1794   : 62147 BNKRLK 8 - 62148 BNKLKTP8 CKT: 1    97.9    97.2    95.6    95.6   102.5   101.6     0.9
SINGLE 1165   : 60203 COON CK7 - 61488 CNCMID1Y CKT: 1    97.8    97.8    95.6    95.6   102.3   102.3     0.0
SINGLE 1156   : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1    97.8    97.8    95.6    95.6   102.3   102.3     0.0
SINGLE 1748   : 62110 JOHNSVL8 - 62132 PRKWOOD8 CKT: 1    97.7    97.7    95.6    95.6   102.2   102.2     0.0
SINGLE 1757   : 62117 SODERVL8 - 62144 SDRVLSW8 CKT: 1    97.7    97.7    95.6    95.6   102.2   102.2     0.0
SINGLE 1155   : 60202 COON CK3 - 61487 CNCMID2Y CKT: 1    97.7    97.7    95.6    95.6   102.2   102.2     0.0
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SINGLE 1164 : 60203 COON CK7 - 61487 CNCMID2Y CKT: 1    97.7    97.7    95.6    95.6   102.2   102.2     0.0
SINGLE 973  : 60114 ELM CRK3 - 60115 ELMCRK 7 CKT: 1    97.5    97.5    95.6    95.6   102.0   102.0     0.0
SINGLE 1731 : 62098 ANOKA  8 - 62134 ELKR14S8 CKT: 1    97.5    97.5    95.6    95.6   102.0   102.0     0.0
SINGLE 1776 : 62131 HWY65SW8 - 62133 LXNGTN 8 CKT: 1    97.2    97.2    95.6    95.6   101.7   101.7     0.0
SINGLE 1758 : 62118 SPRLKPK8 - 62131 HWY65SW8 CKT: 1    97.2    97.2    95.6    95.6   101.7   101.7     0.0
SINGLE 974  : 60114 ELM CRK3 - 60151 MNTCELO3 CKT: 1    96.3    96.3    95.6    95.6   100.7   100.8    -0.1
SINGLE 1736 : 62101 BUNKER 8 - 62147 BNKRLK 8 CKT: 1    96.2    96.2    95.6    95.6   100.6   100.6     0.0
SINGLE 1191 : 60213 GOPHER 7 - 60252 TERMINL7 CKT: 1    95.0    95.0    95.6    95.6    99.3    99.4    -0.1
SINGLE 2907 : 60115 ELMCRK 7 - 60177 CHAMPLN7 CKT: 1    95.0    95.0    95.6    95.6    99.3    99.4    -0.1
SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    94.6    94.6    95.6    95.6    99.0    99.0     0.0
SINGLE 1966 : 62642 ONAMIA 8 - 62652 RUMRVTP8 CKT: 1    94.6    94.6    95.6    95.6    99.0    99.0     0.0
SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    94.6   .....    95.6   .....    99.0   .....   *NEW*
SINGLE 2039 : 63040 BLAINE 4 - 63048 RUSH CY4 CKT: 1    94.6    94.6    95.6    95.6    98.9    98.9     0.0
SINGLE 1832 : 62279 BRAHAM 8 - 62291 GRASTON8 CKT: 1    94.5    94.5    95.6    95.6    98.9    98.9     0.0
SINGLE 1783 : 62135 STFRNCS8 - 62143 ATHNSSW8 CKT: 1    94.5    94.5    95.6    95.6    98.8    98.8     0.0
SINGLE 1836 : 62280 OGILVIE8 - 62303 MORA   8 CKT: 1    94.5    94.5    95.6    95.6    98.8    98.8     0.0
SINGLE 1063 : 60153 MNTCELO7 - 60269 HASSAN 7 CKT: 1    94.5    94.5    95.6    95.6    98.8    98.9    -0.1
SINGLE 1798 : 62180 RIVTON 8 - 62190 OKLWNTP8 CKT: 1    94.5    94.5    95.6    95.6    98.8    98.8     0.0
SINGLE 1849 : 62294 RUSH TP8 - 63022 CAMBRDG8 CKT: 1    94.4    94.4    95.6    95.6    98.7    98.8    -0.1
SINGLE 1145 : 60199 CHIS CO3 - 60221 KOLMNLK3 CKT: 1    94.3    94.3    95.6    95.6    98.7    98.7     0.0
SINGLE 1846 : 62293 RUSH CY8 - 62294 RUSH TP8 CKT: 1    94.4    94.4    95.6    95.6    98.7    98.7     0.0
SINGLE 1854 : 62302 ISLE   8 - 62642 ONAMIA 8 CKT: 1    94.3    94.3    95.6    95.6    98.6    98.7    -0.1
SINGLE 1153 : 60202 COON CK3 - 60251 TERMINL3 CKT: 1    94.3    94.3    95.6    95.6    98.6    98.6     0.0
SINGLE 1729 : 62097 ANDOVER8 - 62098 ANOKA  8 CKT: 1    94.3    94.3    95.6    95.6    98.6    98.6     0.0
SINGLE 2900 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1    94.2    94.2    95.6    95.6    98.6    98.6     0.0
SINGLE 2901 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1    94.2    94.2    95.6    95.6    98.6    98.6     0.0
SINGLE 1077 : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1    94.3    94.3    95.6    95.6    98.6    98.6     0.0
SINGLE 2908 : 60115 ELMCRK 7 - 62107 HENEPIN7 CKT: P    94.3    94.3    95.6    95.6    98.6    98.6     0.0
SINGLE 1058 : 60151 MNTCELO3 - 60153 MNTCELO7 CKT: 1    94.2    94.2    95.6    95.6    98.5    98.5     0.0
SINGLE 2919 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1    94.2    94.2    95.6    95.6    98.5    98.6    -0.1
SINGLE 1369 : 60361 ROCKCR 4 - 61192 ROCKCRK8 CKT: 1    94.1    94.1    95.6    95.6    98.4    98.4     0.0
SINGLE 1683 : 61192 ROCKCRK8 - 61193 HOFFMAN8 CKT: 1    94.1    94.1    95.6    95.6    98.4    98.4     0.0
SINGLE 1121 : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1    94.1   .....    95.6   .....    98.4   .....   *NEW*
SINGLE 1120 : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C    94.0   .....    95.6   .....    98.4   .....   *NEW*
SINGLE 1188 : 60212 GOOSELK7 - 60222 KOLMNLK7 CKT: 1    94.1    94.1    95.6    95.6    98.4    98.5    -0.1
SINGLE 1278 : 60270 MPLEGV13 - 63030 DICKNSN3 CKT: 1    94.1    94.1    95.6    95.6    98.4    98.4     0.0
SINGLE 1516 : 60871 ANOKAMN8 - 62151 ENRGYPK8 CKT: 1    92.0    92.0    95.6    95.6    96.2    96.3    -0.1
SINGLE 1230 : 60236 REDROCK3 - 60237 REDROCK4 CKT: 1    91.8    91.8    95.6    95.6    96.0    96.1    -0.1
SINGLE 1233 : 60237 REDROCK4 - 63048 RUSH CY4 CKT: 1    91.4    91.4    95.6    95.6    95.6    95.6     0.0
SINGLE 1747 : 62109 ISANTI 8 - 62141 ISANTTP8 CKT: 1    91.0    91.0    95.6    95.6    95.2    95.2     0.0
SINGLE 1818 : 62270 INDSTRL8 - 62296 INDSTTP8 CKT: 1    90.8    90.8    95.6    95.6    94.9    95.0    -0.1
SINGLE 1755 : 62116 RAMSEY 8 - 62147 BNKRLK 8 CKT: 1    90.5    90.5    95.6    95.6    94.7    94.7     0.0
SINGLE 1057 : 60151 MNTCELO3 - 60152 MNTCELO4 CKT: 1    90.5    90.5    95.6    95.6    94.6    94.7    -0.1
SINGLE 1763 : 62121 VILGTEN8 - 62132 PRKWOOD8 CKT: 1    89.3    89.3    95.6    95.6    93.4    93.4     0.0
SINGLE 1740 : 62104 COOPERC8 - 62143 ATHNSSW8 CKT: 1    89.3    89.3    95.6    95.6    93.4    93.4     0.0
SINGLE 1728 : 62096 AIRPORT8 - 62113 NORTHTW8 CKT: 1    89.0    89.0    95.6    95.6    93.1    93.1     0.0
SINGLE 1741 : 62104 COOPERC8 - 62144 SDRVLSW8 CKT: 1    88.3    88.3    95.6    95.6    92.4    92.4     0.0
SINGLE 1060 : 60152 MNTCELO4 - 63043 ELK RIV4 CKT: 1    88.2    88.2    95.6    95.6    92.3    92.3     0.0
SINGLE 1745 : 62106 FOREST 8 - 62140 MARTNTP8 CKT: 1    86.4    86.4    95.6    95.6    90.3    90.4    -0.1
SINGLE 1787 : 62141 ISANTTP8 - 62143 ATHNSSW8 CKT: 1   .....    94.1   .....    95.6   .....    98.4  *ELIM*
SINGLE 2933 : 60178 CHAMP T7 - 60177 CHAMPLN7 CKT: 1   .....    94.6   .....    95.6   .....    99.0  *ELIM*
SINGLE 2938 : 60190 BLK DOG7 - 60012 BLK D76G CKT: 1   .....    94.1   .....    95.6   .....    98.4  *ELIM*
*** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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 73) 62147 BNKRLK 8 - 63046 BUNKER 4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 1166 : 60203 COON CK7 - 62090 PRKWOOD7 CKT: 1   133.7   133.7   112.0   112.0   119.4   119.4     0.0
SINGLE 1773 : 62128 BLAINE 8 - 63040 BLAINE 4 CKT: 1   130.2   130.2   112.0   112.0   116.3   116.2     0.1
SINGLE 1727 : 62090 PRKWOOD7 - 62132 PRKWOOD8 CKT: 2   127.6   127.6   112.0   112.0   113.9   113.9     0.0
SINGLE 1763 : 62121 VILGTEN8 - 62132 PRKWOOD8 CKT: 1   127.3   127.2   112.0   112.0   113.7   113.6     0.1
SINGLE 1781 : 62134 ELKR14S8 - 63043 ELK RIV4 CKT: 1   125.3   125.3   112.0   112.0   111.9   111.9     0.0
SINGLE 1753 : 62114 RDFTAP 8 - 63020 ELK RIV8 CKT: 1   124.8   124.8   112.0   112.0   111.4   111.4     0.0
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SINGLE 1848 :	62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1	124.7	124.7	112.0	112.0	111.3	111.3	0.0
SINGLE 1726 :	62090 PRKWOOD7 - 62132 PRKWOOD8 CKT: 1	124.0	122.9	112.0	112.0	110.7	109.7	1.0
SINGLE 1742 :	62105 DAYTON 8 - 62114 RDFTAP 8 CKT: 1	123.9	123.9	112.0	112.0	110.6	110.6	0.0
SINGLE 1159 :	60202 COON CK3 - 63031 BUNKER 3 CKT: 1	117.9	117.9	112.0	112.0	105.3	105.2	0.1
SINGLE 1743 :	62105 DAYTON 8 - 62146 ENTPRTP8 CKT: 1	115.9	115.9	112.0	112.0	103.5	103.5	0.0
SINGLE 1731 :	62098 ANOKA 8 - 62134 ELKR14S8 CKT: 1	115.2	115.2	112.0	112.0	102.8	102.9	-0.1
SHC-CNC/ECK3:	** MULTIPLE CONTINGENCY **	114.9	114.9	112.0	112.0	102.6	102.6	0.0
:	60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1							
:	60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1							
SINGLE 1156 :	60202 COON CK3 - 61488 CNCMID1Y CKT: 1	114.2	114.2	112.0	112.0	102.0	102.0	0.0
SINGLE 1165 :	60203 COON CK7 - 61488 CNCMID1Y CKT: 1	114.2	114.2	112.0	112.0	102.0	102.0	0.0
SINGLE 1164 :	60203 COON CK7 - 61487 CNCMID2Y CKT: 1	114.1	114.1	112.0	112.0	101.9	101.9	0.0
SINGLE 1155 :	60202 COON CK3 - 61487 CNCMID2Y CKT: 1	114.1	114.1	112.0	112.0	101.9	101.9	0.0
SINGLE 973 :	60114 ELM CRK3 - 60115 ELMCRK 7 CKT: 1	113.2	113.2	112.0	112.0	101.1	101.1	0.0
SINGLE 1772 :	62128 BLAINE 8 - 62130 LXNGTSW8 CKT: 1	113.1	113.1	112.0	112.0	101.0	101.0	0.0
SINGLE 974 :	60114 ELM CRK3 - 60151 MNTCELO3 CKT: 1	112.8	112.8	112.0	112.0	100.7	100.7	0.0
SINGLE 3362 :	61910 MILACA 4 - 63045 BENTON 4 CKT: 1	111.4	111.4	112.0	112.0	99.5	99.5	0.0
SINGLE 1770 :	62126 PIPELIN8 - 62134 ELKR14S8 CKT: 1	111.3	111.3	112.0	112.0	99.4	99.4	0.0
SINGLE 1771 :	62126 PIPELIN8 - 62135 STFRNCS8 CKT: 1	110.8	110.8	112.0	112.0	98.9	98.9	0.0
SINGLE 1849 :	62294 RUSH TP8 - 63022 CAMBRDG8 CKT: 1	110.6	110.6	112.0	112.0	98.8	98.8	0.0
SINGLE 1846 :	62293 RUSH CY8 - 62294 RUSH TP8 CKT: 1	110.6	110.6	112.0	112.0	98.7	98.8	-0.1
SINGLE 1756 :	62117 SODERVL8 - 62128 BLAINE 8 CKT: 1	110.4	110.4	112.0	112.0	98.6	98.6	0.0
SINGLE 1684 :	61910 MILACA 4 - 62301 MILACA 8 CKT: 1	110.4	110.4	112.0	112.0	98.6	98.6	0.0
SINGLE 1780 :	62134 ELKR14S8 - 63020 ELK RIV8 CKT: 1	110.1	110.1	112.0	112.0	98.3	98.3	0.0
SINGLE 3374 :	62297 BENTON 8 - 63045 BENTON 4 CKT: 1	110.0	110.0	112.0	112.0	98.2	98.2	0.0
SINGLE 2907 :	60115 ELMCRK 7 - 60177 CHAMPLN7 CKT: 1	110.0	110.0	112.0	112.0	98.2	98.2	0.0
SINGLE 1729 :	62097 ANDOVER8 - 62098 ANOKA 8 CKT: 1	109.8	109.8	112.0	112.0	98.0	98.0	0.0
SINGLE 1825 :	62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1	109.6	109.6	112.0	112.0	97.9	97.9	0.0
SINGLE 944 :	60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1	109.6	109.6	112.0	112.0	97.9	97.9	0.0
SINGLE 2935 :	60178 CHAMP T7 - 60177 CHAMPLN7 CKT: 1	109.5	109.5	112.0	112.0	97.8	97.8	0.0
SINGLE 1847 :	62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1	109.6	109.6	112.0	112.0	97.8	97.8	0.0
SINGLE 1787 :	62139 CABLETP8 - 62297 BENTON 8 CKT: 1	109.4	109.4	112.0	112.0	97.7	97.7	0.0
SINGLE 1823 :	62273 MILACAD8 - 62301 MILACA 8 CKT: 1	109.4	109.4	112.0	112.0	97.6	97.7	-0.1
SINGLE 1765 :	62122 WESTEND8 - 62138 BRGGLKS8 CKT: 1	109.2	109.2	112.0	112.0	97.5	97.5	0.0
SINGLE 2961 :	60240 RIVRSID7 - 60008 RIVRS78G CKT: 1	109.2	109.2	112.0	112.0	97.5	97.5	0.0
SINGLE 1058 :	60151 MNTCELO3 - 60153 MNTCELO7 CKT: 1	109.1	109.1	112.0	112.0	97.4	97.4	0.0
SINGLE 2960 :	60240 RIVRSID7 - 60007 RIVRS76G CKT: 1	109.0	108.6	112.0	112.0	97.4	97.0	0.4
SINGLE 3055 :	60717 WAKEFLD8 - 62846 FRHV TP8 CKT: 1	109.0	109.0	112.0	112.0	97.3	97.3	0.0
SINGLE 1850 :	62296 INDSTTP8 - 63022 CAMBRDG8 CKT: 1	109.0	109.0	112.0	112.0	97.3	97.3	0.0
SINGLE 1077 :	60160 SHERCO 3 - 60202 COON CK3 CKT: 1	108.9	108.9	112.0	112.0	97.2	97.2	0.0
SINGLE 1819 :	62271 LONGSDG8 - 62273 MILACAD8 CKT: 1	108.9	108.9	112.0	112.0	97.2	97.2	0.0
SINGLE 1059 :	60151 MNTCELO3 - 60160 SHERCO 3 CKT: 1	108.9	108.9	112.0	112.0	97.2	97.2	0.0
SINGLE 1798 :	62180 RIVTON 8 - 62190 OKLWNTP8 CKT: 1	108.8	108.8	112.0	112.0	97.1	97.1	0.0
SINGLE 959 :	60108 WILMART3 - 60331 LKFLDXL3 CKT: 1	108.7	.....	112.0	.....	97.1	.....	*NEW*
SINGLE 1191 :	60213 GOPHER 7 - 60252 TERMINL7 CKT: 1	108.7	108.7	112.0	112.0	97.0	97.0	0.0
SINGLE 958 :	60108 WILMART3 - 60192 BLUE LK3 CKT: 1	108.6	108.6	112.0	112.0	97.0	96.9	0.1
SINGLE 1966 :	62642 ONAMIA 8 - 62652 RUMRVTP8 CKT: 1	108.7	108.7	112.0	112.0	97.0	97.0	0.0
SINGLE 3372 :	62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1	108.6	108.6	112.0	112.0	96.9	96.9	0.0
SINGLE 1748 :	62110 JOHNSVL8 - 62132 PRKWOOD8 CKT: 1	108.5	108.5	112.0	112.0	96.9	96.9	0.0
BASE CASE :	** BASE CASE **	107.4	107.4	112.0	112.0	95.9	95.9	0.0
SINGLE 1160 :	60203 COON CK7 - 60229 MOORELK7 CKT: 1	106.4	106.4	112.0	112.0	95.0	95.0	0.0
SINGLE 1758 :	62118 SPRLKPK8 - 62131 HWY65SW8 CKT: 1	106.3	106.3	112.0	112.0	94.9	94.9	0.0
SINGLE 1776 :	62131 HWY65SW8 - 62133 LXNGTN 8 CKT: 1	106.3	106.3	112.0	112.0	94.9	94.9	0.0
SINGLE 2013 :	62938 OTSEGO 8 - 63020 ELK RIV8 CKT: 1	106.1	106.1	112.0	112.0	94.8	94.8	0.0
SINGLE 1757 :	62117 SODERVL8 - 62144 SDRVLSW8 CKT: 1	106.0	106.0	112.0	112.0	94.6	94.6	0.0
SINGLE 1734 :	62100 BIG LAK8 - 62150 E BL TP8 CKT: 1	106.0	106.0	112.0	112.0	94.6	94.6	0.0
SINGLE 1233 :	60237 REDROCK4 - 63048 RUSH CY4 CKT: 1	106.0	106.0	112.0	112.0	94.6	94.6	0.0
SINGLE 1797 :	62150 E BL TP8 - 62965 ELKRWS18 CKT: 1	106.0	106.0	112.0	112.0	94.6	94.6	0.0
SINGLE 1744 :	62106 FOREST 8 - 62108 HUGO 8 CKT: 1	105.9	105.9	112.0	112.0	94.6	94.6	0.0
SINGLE 3019 :	60361 ROCKCR 4 - 61580 BEARCK 4 CKT: 1	105.8	105.5	112.0	112.0	94.5	94.2	0.3
SINGLE 2920 :	60151 MNTCELO3 - 60005 MNTCE31G CKT: 1	105.9	105.9	112.0	112.0	94.5	94.5	0.0
SINGLE 1735 :	62101 BUNKER 8 - 62121 VILGTEN8 CKT: 1	105.9	105.9	112.0	112.0	94.5	94.6	-0.1
SINGLE 2926 :	60160 SHERCO 3 - 60001 SHERC32G CKT: 1	105.8	105.8	112.0	112.0	94.4	94.4	0.0

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  SINGLE 2925 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1   105.8   105.8   112.0   112.0    94.4    94.4     0.0
  SINGLE 1818 : 62270 INDSTRL8 - 62296 INDSTTP8 CKT: 1   105.6   105.6   112.0   112.0    94.3    94.3     0.0
  SINGLE 1158 : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1   105.5   105.5   112.0   112.0    94.2    94.2     0.0
  SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1   105.5   105.5   112.0   112.0    94.2    94.2     0.0
  SINGLE 1738 : 62103 CIRCLEP8 - 62130 LXNGTSW8 CKT: 1   105.4   105.4   112.0   112.0    94.1    94.1     0.0
  SINGLE 2023 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1   105.2   105.2   112.0   112.0    94.0    94.0     0.0
  SHC-CNC/BUL3: ** MULTIPLE CONTINGENCY **               104.8   104.8   112.0   112.0    93.6    93.6     0.0
              : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
              : 60160 SHERCO 3 - 63031 BUNKER 3 CKT: 1
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1   104.7   104.7   112.0   112.0    93.5    93.5     0.0
  SINGLE 1790 : 62141 ISANTTP8 - 62296 INDSTTP8 CKT: 1   104.5   104.5   112.0   112.0    93.3    93.3     0.0
  SINGLE 1754 : 62116 RAMSEY 8 - 62146 ENTPRTP8 CKT: 1   103.9   103.9   112.0   112.0    92.8    92.8     0.0
  SINGLE 1516 : 60871 ANOKAMN8 - 62151 ENRGYPK8 CKT: 1   103.7   103.7   112.0   112.0    92.6    92.6     0.0
  SINGLE 1057 : 60151 MNTCELO3 - 60152 MNTCELO4 CKT: 1   103.3   103.3   112.0   112.0    92.2    92.3    -0.1
  SINGLE 1740 : 62104 COOPERC8 - 62143 ATHNSSW8 CKT: 1   103.2   103.2   112.0   112.0    92.1    92.1     0.0
  SINGLE 1728 : 62096 AIRPORT8 - 62113 NORTHTW8 CKT: 1   101.9   101.9   112.0   112.0    91.0    91.0     0.0
  SINGLE 1789 : 62141 ISANTTP8 - 62143 ATHNSSW8 CKT: 1   101.5   101.5   112.0   112.0    90.6    90.7    -0.1
  SINGLE 1793 : 62146 ENTPRTP8 - 62151 ENRGYPK8 CKT: 1   101.4   101.4   112.0   112.0    90.5    90.6    -0.1
  SINGLE 1759 : 62118 SPRLKPK8 - 62132 PRKWOOD8 CKT: 1   101.4   101.4   112.0   112.0    90.5    90.6    -0.1
  SINGLE 1791 : 62144 SDRVLSW8 - 62148 BNKLKTP8 CKT: 1   101.1   101.1   112.0   112.0    90.2    90.3    -0.1
  SINGLE 1741 : 62104 COOPERC8 - 62144 SDRVLSW8 CKT: 1   100.8   100.8   112.0   112.0    90.0    90.0     0.0
  CNC-SHC/BUL3: ** MULTIPLE CONTINGENCY **               .....   126.8   .....   112.0   .....   113.2  *ELIM*
              : 60202 COON CK3 - 60160 SHERCO 3 CKT: 1
              : 60202 COON CK3 - 63031 BUNKER 3 CKT: 1
  *** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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  74) 62275 PINECTY8 - 62285 RUSH SW8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  SINGLE 1849 : 62294 RUSH TP8 - 63022 CAMBRDG8 CKT: 1    38.2    38.2    24.3    24.3   163.3   163.1     0.2
  SINGLE 1846 : 62293 RUSH CY8 - 62294 RUSH TP8 CKT: 1    38.2    38.2    24.3    24.3   163.1   162.9     0.2
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1    33.2    33.2    24.3    24.3   144.8   144.7     0.1
  SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1    33.2    33.2    24.3    24.3   144.7   144.9    -0.2
  SINGLE 1836 : 62280 OGILVIE8 - 62303 MORA   8 CKT: 1    32.2    32.2    24.3    24.3   136.6   136.6     0.0
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1    28.6    28.6    24.3    24.3   124.0   124.1    -0.1
  SINGLE 1966 : 62642 ONAMIA 8 - 62652 RUMRVTP8 CKT: 1    28.2    28.2    24.3    24.3   122.3   122.5    -0.2
  SINGLE 1034 : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1    27.6    27.6    24.3    24.3   118.1   118.1     0.0
  675         : ** MULTIPLE CONTINGENCY **                27.6    27.6    24.3    24.3   118.1   118.1     0.0
              : 60142 BENTON 3 - 63045 BENTON 4 CKT: 1
              : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1
              : 60142 BENTON 3 - 63045 BENTON 4 CKT: 2
  SINGLE 1845 : 62291 GRASTON8 - 62303 MORA   8 CKT: 1    28.1    28.1    24.3    24.3   117.9   117.9     0.0
  SINGLE 1798 : 62180 RIVTON 8 - 62190 OKLWNTP8 CKT: 1    27.4    27.4    24.3    24.3   117.8   117.9    -0.1
  SINGLE 1779 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1    27.0    27.0    24.3    24.3   115.6   115.7    -0.1
  SINGLE 1796 : 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1    27.0    27.0    24.3    24.3   115.6   115.8    -0.2
  SINGLE 1767 : 62124 ZIMERMN8 - 62149 N ER TP8 CKT: 1    27.0    27.0    24.3    24.3   115.6   115.8    -0.2
  SINGLE 1811 : 62190 OKLWNTP8 - 62191 PINCTRT8 CKT: 1    26.7    26.7    24.3    24.3   114.1   114.2    -0.1
  SINGLE 1770 : 62126 PIPELIN8 - 62134 ELKR14S8 CKT: 1    26.1    26.1    24.3    24.3   113.4   113.3     0.1
  SINGLE 1831 : 62278 HARRIS 8 - 62293 RUSH CY8 CKT: 1    27.3    27.3    24.3    24.3   113.2   113.4    -0.2
  SINGLE 1740 : 62104 COOPERC8 - 62143 ATHNSSW8 CKT: 1    26.1    26.1    24.3    24.3   113.0   112.8     0.2
  SINGLE 1854 : 62302 ISLE   8 - 62642 ONAMIA 8 CKT: 1    26.3    26.3    24.3    24.3   112.6   112.8    -0.2
  SINGLE 1771 : 62126 PIPELIN8 - 62135 STFRNCS8 CKT: 1    25.9    25.9    24.3    24.3   112.1   112.0     0.1
  SINGLE 1851 : 62297 BENTON 8 - 62300 MINDEN 8 CKT: 1    26.2    26.2    24.3    24.3   111.8   111.9    -0.1
  SINGLE 1830 : 62278 HARRIS 8 - 62282 NBRNCH 8 CKT: 1    26.5    26.5    24.3    24.3   110.4   110.6    -0.2
  SINGLE 1813 : 62191 PINCTRT8 - 62651 VINLDTP8 CKT: 1    25.9    25.9    24.3    24.3   110.3   110.4    -0.1
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1    25.8    25.8    24.3    24.3   110.0   110.1    -0.1
  SINGLE 1852 : 62298 MAYHWTP8 - 62300 MINDEN 8 CKT: 1    25.8    25.8    24.3    24.3   109.9   109.9     0.0
  SINGLE 1971 : 62650 VINELND8 - 62651 VINLDTP8 CKT: 1    25.6    25.6    24.3    24.3   108.9   109.0    -0.1
  SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    25.6    25.6    24.3    24.3   108.4   108.5    -0.1
  SINGLE 1781 : 62134 ELKR14S8 - 63043 ELK RIV4 CKT: 1    25.3   .....    24.3   .....   107.6   .....   *NEW*
  SINGLE 2925 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1    25.4   .....    24.3   .....   107.4   .....   *NEW*
  SINGLE 2926 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1    25.4   .....    24.3   .....   107.4   .....   *NEW*
  022       3 : ** MULTIPLE CONTINGENCY **                23.2    23.2    24.3    24.3    98.8    98.8     0.0
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              : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
              : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
              : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
              : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
              : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
              : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
  SINGLE 3019 : 60361 ROCKCR 4 - 61580 BEARCK 4 CKT: 1    23.1    23.1    24.3    24.3    98.7    98.6     0.1
  CNC-KOL/TER3: ** MULTIPLE CONTINGENCY **                23.1    23.1    24.3    24.3    98.4    98.5    -0.1
              : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
              : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
  SINGLE 1230 : 60236 REDROCK3 - 60237 REDROCK4 CKT: 1    23.0    23.0    24.3    24.3    98.4    98.3     0.1
  SINGLE 1819 : 62271 LONGSDG8 - 62273 MILACAD8 CKT: 1    23.2    23.2    24.3    24.3    98.2    98.4    -0.2
  670     2   : ** MULTIPLE CONTINGENCY **                22.8    22.8    24.3    24.3    98.2    98.2     0.0
              : 63031 BUNKER 3 - 60160 SHERCO 3 CKT: 1
              : 63031 BUNKER 3 - 60202 COON CK3 CKT: 1
              : 63046 BUNKER 4 - 63031 BUNKER 3 CKT: 1
  SHC-CNC/BUL3: ** MULTIPLE CONTINGENCY **                23.0    23.0    24.3    24.3    97.8    98.0    -0.2
              : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
              : 60160 SHERCO 3 - 63031 BUNKER 3 CKT: 1
  SINGLE 1233 : 60237 REDROCK4 - 63048 RUSH CY4 CKT: 1    22.7    22.7    24.3    24.3    97.7    97.6     0.1
  009   2     : ** MULTIPLE CONTINGENCY **                22.8    22.8    24.3    24.3    97.2    97.4    -0.2
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
              : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1
              : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
              : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
              : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
              : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
  SINGLE 1818 : 62270 INDSTRL8 - 62296 INDSTTP8 CKT: 1    22.9    22.9    24.3    24.3    95.6    95.8    -0.2
  670     1   : ** MULTIPLE CONTINGENCY **                22.1    22.1    24.3    24.3    95.5    95.6    -0.1
              : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
              : 63031 BUNKER 3 - 60160 SHERCO 3 CKT: 1
              : 63031 BUNKER 3 - 60202 COON CK3 CKT: 1
              : 60202 COON CK3 - 61487 CNCMID2Y CKT: 1
              : 61487 CNCMID2Y - 60203 COON CK7 CKT: 1
              : 61487 CNCMID2Y - 60655 CNCTER29 CKT: 1
              : 63046 BUNKER 4 - 63031 BUNKER 3 CKT: 1
  SINGLE 2038 : 63040 BLAINE 4 - 63046 BUNKER 4 CKT: 1    21.7    21.5    24.3    24.3    93.2    92.9     0.3
  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1    16.0    16.0    24.3    24.3    92.9    92.9     0.0
  SINGLE 1827 : 62275 PINECTY8 - 62291 GRASTON8 CKT: 1    21.3    21.3    24.3    24.3    90.0    90.0     0.0

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  75) 62293 RUSH CY8 - 63048 RUSH CY4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1746 : 62108 HUGO   8 - 62128 BLAINE 8 CKT: 1   139.2   139.1    84.0    84.0   165.7   165.6     0.1
  SINGLE 1744 : 62106 FOREST 8 - 62108 HUGO   8 CKT: 1   128.4   128.4    84.0    84.0   152.9   152.9     0.0
  SINGLE 1773 : 62128 BLAINE 8 - 63040 BLAINE 4 CKT: 1   116.8   116.7    84.0    84.0   139.1   139.0     0.1
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1   114.6   114.6    84.0    84.0   136.4   136.4     0.0
  SINGLE 1770 : 62126 PIPELIN8 - 62134 ELKR14S8 CKT: 1   113.9   113.9    84.0    84.0   135.6   135.6     0.0
  SINGLE 1771 : 62126 PIPELIN8 - 62135 STFRNCS8 CKT: 1   112.4   112.4    84.0    84.0   133.9   133.8     0.1
  SINGLE 1740 : 62104 COOPERC8 - 62143 ATHNSSW8 CKT: 1   111.9   111.9    84.0    84.0   133.2   133.2     0.0
  SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1   107.4   107.4    84.0    84.0   127.8   127.9    -0.1
  SINGLE 1795 : 62147 BNKRLK 8 - 63046 BUNKER 4 CKT: 1   107.1   107.1    84.0    84.0   127.5   127.5     0.0
  SINGLE 1034 : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1   106.9   106.9    84.0    84.0   127.2   127.3    -0.1
  SINGLE 2926 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1   106.6   106.6    84.0    84.0   126.9   126.9     0.0
  SINGLE 2925 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1   106.6   106.6    84.0    84.0   126.9   126.9     0.0
  SINGLE 1781 : 62134 ELKR14S8 - 63043 ELK RIV4 CKT: 1   106.3   106.3    84.0    84.0   126.6   126.6     0.0
  BLL-EDP/PKL3: ** MULTIPLE CONTINGENCY **               106.3   106.3    84.0    84.0   126.5   126.6    -0.1
              : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
              : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1
  SINGLE 2920 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1   105.9   105.9    84.0    84.0   126.0   126.1    -0.1
  SINGLE 1748 : 62110 JOHNSVL8 - 62132 PRKWOOD8 CKT: 1   105.7   105.6    84.0    84.0   125.8   125.8     0.0
  SINGLE 1854 : 62302 ISLE   8 - 62642 ONAMIA 8 CKT: 1   105.6   105.6    84.0    84.0   125.7   125.8    -0.1
```

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  SINGLE 1166 : 60203 COON CK7 - 62090 PRKWOOD7 CKT: 1   105.4   105.4    84.0    84.0   125.5   125.5     0.0
  KOL-ASK/CHI3: ** MULTIPLE CONTINGENCY **               105.3   105.3    84.0    84.0   125.3   125.4    -0.1
              : 60221 KOLMNLK3 - 60186 AS KING3 CKT: 1
              : 60221 KOLMNLK3 - 60199 CHIS CO3 CKT: 1
  SINGLE 1759 : 62118 SPRLKPK8 - 62132 PRKWOOD8 CKT: 1   104.3   104.3    84.0    84.0   124.1   124.2    -0.1
  SINGLE 2937 : 60186 AS KING3 - 60006 KING 31G CKT: 1   104.1   .....    84.0   .....   124.0   .....   *NEW*
  CNC-DKN/SHC3: ** MULTIPLE CONTINGENCY **               102.1   102.1    84.0    84.0   121.5   121.6    -0.1
              : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1
              : 60202 COON CK3 - 60272 MPLEGV23 CKT: 1
  BLL-PRI/IVH3: ** MULTIPLE CONTINGENCY **               101.8   101.8    84.0    84.0   121.2   121.2     0.0
              : 60192 BLUE LK3 - 60105 PR ISLD3 CKT: 1
              : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
  SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   101.5   101.5    84.0    84.0   120.8   120.9    -0.1
  PRI-RRK/RRK3: ** MULTIPLE CONTINGENCY **               100.9   100.9    84.0    84.0   120.1   120.1     0.0
              : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 1
              : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
  SINGLE 3019 : 60361 ROCKCR 4 - 61580 BEARCK 4 CKT: 1    97.6    97.5    84.0    84.0   116.2   116.1     0.1
  SINGLE 1230 : 60236 REDROCK3 - 60237 REDROCK4 CKT: 1    96.9    96.9    84.0    84.0   115.3   115.3     0.0
  SINGLE 2038 : 63040 BLAINE 4 - 63046 BUNKER 4 CKT: 1    95.9    95.4    84.0    84.0   114.2   113.6     0.6
  SINGLE 1233 : 60237 REDROCK4 - 63048 RUSH CY4 CKT: 1    95.5    95.5    84.0    84.0   113.7   113.7     0.0
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1    90.9    90.8    84.0    84.0   108.2   108.1     0.1
  SINGLE 1849 : 62294 RUSH TP8 - 63022 CAMBRDG8 CKT: 1    87.5    87.4    84.0    84.0   104.1   104.0     0.1
  SINGLE 1846 : 62293 RUSH CY8 - 62294 RUSH TP8 CKT: 1    87.4    87.4    84.0    84.0   104.1   104.0     0.1
  022       1 : ** MULTIPLE CONTINGENCY **               .....    99.4   .....    84.0   .....   118.4  *ELIM*
              : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
              : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
              : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
              : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
              : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
              : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
              : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
              : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
              : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
              : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
  *** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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  76) 62368 RNDLKTP8 - 62371 WLKFLTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **                20.1    20.1    19.0    19.0   109.4   109.3     0.1
  SINGLE 395  : 34242 JACKN M8 - 62366 ENTRPRS8 CKT: 1    17.2    17.2    19.0    19.0    92.2    92.2     0.0

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  77) 62642 ONAMIA 8 - 62652 RUMRVTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1    27.4    27.4    24.3    24.3   123.6   123.6     0.0
  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1    25.3    25.3    24.3    24.3   113.1   113.1     0.0
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1    24.7    24.7    24.3    24.3   110.2   110.1     0.1
  SINGLE 1789 : 62141 ISANTTP8 - 62143 ATHNSSW8 CKT: 1    24.2    24.2    24.3    24.3   106.1   106.1     0.0
  SINGLE 1835 : 62280 OGILVIE8 - 62302 ISLE   8 CKT: 1    24.3    24.3    24.3    24.3   105.8   105.6     0.2
  SINGLE 944  : 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1    23.8    23.7    24.3    24.3   102.6   102.5     0.1
  SINGLE 1142 : 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1    23.8    23.8    24.3    24.3   102.6   102.5     0.1
  SINGLE 1824 : 62274 RUSHCYD8 - 62285 RUSH SW8 CKT: 1    23.4    23.4    24.3    24.3   102.2   102.2     0.0
  SINGLE 1826 : 62275 PINECTY8 - 62285 RUSH SW8 CKT: 1    23.4    23.4    24.3    24.3   102.2   102.2     0.0
  SINGLE 1746 : 62108 HUGO   8 - 62128 BLAINE 8 CKT: 1    22.8    22.8    24.3    24.3    98.9    98.7     0.2
  SINGLE 1741 : 62104 COOPERC8 - 62144 SDRVLSW8 CKT: 1    22.7    22.7    24.3    24.3    98.7    98.6     0.1
  765         : ** MULTIPLE CONTINGENCY **                22.5    22.5    24.3    24.3    97.8    97.8     0.0
              : 63048 RUSH CY4 - 60237 REDROCK4 CKT: 1
              : 60236 REDROCK3 - 60237 REDROCK4 CKT: 1
              : 60361 ROCKCR 4 - 63048 RUSH CY4 CKT: 1
  BASE CASE   : **       BASE CASE      **                21.3    21.2    24.3    24.3    91.8    91.7     0.1
  SINGLE 1769 : 62126 PIPELIN8 - 62135 STFRNCS8 CKT: 1   .....    22.2   .....    24.3   .....    96.2  *ELIM*
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  78) 62925 DICKNSN7 - 62667 ST BONI7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    83.1   .....    71.4   .....   116.4   .....   *NEW*
  SINGLE 1145 : 60199 CHIS CO3 - 60221 KOLMNLK3 CKT: 1    64.7   .....    71.4   .....    90.9   .....   *NEW*
  SINGLE 1013 : 60133 SHEYNNE4 - 63336 AUDUBON4 CKT: 1    64.5   .....    71.4   .....    90.7   .....   *NEW*
  SINGLE 1776 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1   .....    64.9   .....    71.4   .....    91.2  *ELIM*
  SINGLE 1846 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1   .....    64.6   .....    71.4   .....    90.9  *ELIM*
  SINGLE 1994 : 62924 MEDINA 7 - 62951 MEDINA 8 CKT: 1   .....    64.4   .....    71.4   .....    90.5  *ELIM*
  *** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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  79) 62933 HIGHLND8 - 62934 HOWARDL8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1    29.9    29.9    13.7    13.7   246.1   246.2    -0.1
  SINGLE 3055 : 60717 WAKEFLD8 - 62846 FRHV TP8 CKT: 1    29.3    29.2    13.7    13.7   216.0   215.7     0.3
  SINGLE 2013 : 62938 OTSEGO 8 - 63020 ELK RIV8 CKT: 1    28.0    28.0    13.7    13.7   210.4   210.5    -0.1
  SINGLE 3051 : 60705 LUXBGTP8 - 62846 FRHV TP8 CKT: 1    27.7    27.7    13.7    13.7   204.5   204.1     0.4
  680         : ** MULTIPLE CONTINGENCY **                26.8    26.8    13.7    13.7   199.6   199.7    -0.1
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1    26.8    26.7    13.7    13.7   199.3   198.6     0.7
  SINGLE 2023 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1    26.7    26.6    13.7    13.7   198.5   198.1     0.4
  SINGLE 3049 : 60705 LUXBGTP8 - 62620 WATKINS8 CKT: 1    26.9    26.8    13.7    13.7   197.7   197.4     0.3
  SINGLE 1787 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1    26.0    25.9    13.7    13.7   193.1   192.4     0.7
  SINGLE 3047 : 60703 WATKINS8 - 62620 WATKINS8 CKT: 1    25.6    25.6    13.7    13.7   189.7   189.4     0.3
  665         : ** MULTIPLE CONTINGENCY **                25.6    25.6    13.7    13.7   188.7   188.5     0.2
              : 63043 ELK RIV4 - 60152 MNTCELO4 CKT: 1
              : 63043 ELK RIV4 - 62134 ELKR14S8 CKT: 1
  SINGLE 2000 : 62929 ALBERTV8 - 62938 OTSEGO 8 CKT: 1    25.2    25.2    13.7    13.7   188.1   187.7     0.4
  SINGLE 1407 : 60703 WATKINS8 - 60704 KIMBALL8 CKT: 1    25.2    25.1    13.7    13.7   186.1   185.7     0.4
  SINGLE 1785 : 62138 BRGGLKS8 - 62139 CABLETP8 CKT: 1    24.8    24.8    13.7    13.7   183.6   183.7    -0.1
  675         : ** MULTIPLE CONTINGENCY **                24.4    24.3    13.7    13.7   178.8   178.2     0.6
              : 60142 BENTON 3 - 63045 BENTON 4 CKT: 1
              : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1
              : 60142 BENTON 3 - 63045 BENTON 4 CKT: 2
  SINGLE 1034 : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1    24.4    24.3    13.7    13.7   178.8   178.2     0.6
  SINGLE 1765 : 62122 WESTEND8 - 62138 BRGGLKS8 CKT: 1    24.0    24.0    13.7    13.7   177.6   177.5     0.1
  SINGLE 1366 : 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C    24.1    23.9    13.7    13.7   176.4   175.5     0.9
  SINGLE 1069 : 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C    23.9    23.9    13.7    13.7   175.6   175.5     0.1
  SINGLE 1781 : 62134 ELKR14S8 - 63043 ELK RIV4 CKT: 1    23.8    23.7    13.7    13.7   175.1   174.4     0.7
  SINGLE 1080 : 60162 WAKEFLD7 - 60717 WAKEFLD8 CKT: 1    23.9    23.8    13.7    13.7   174.9   174.4     0.5
  SINGLE 1797 : 62150 E BL TP8 - 62965 ELKRWS18 CKT: 1    23.5    23.5    13.7    13.7   174.2   173.9     0.3
  SINGLE 1734 : 62100 BIG LAK8 - 62150 E BL TP8 CKT: 1    23.5    23.5    13.7    13.7   174.2   173.9     0.3
  SINGLE 1408 : 60704 KIMBALL8 - 60761 SOUTHVN8 CKT: 1    23.4    23.4    13.7    13.7   172.5   172.2     0.3
  SINGLE 1412 : 60712 ANNDALE8 - 60761 SOUTHVN8 CKT: 1    23.3    23.2    13.7    13.7   171.4   171.0     0.4
  500         : ** MULTIPLE CONTINGENCY **                23.0    23.0    13.7    13.7   168.9   168.4     0.5
              : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
              : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1
  SINGLE 1060 : 60152 MNTCELO4 - 63043 ELK RIV4 CKT: 1    22.8    22.8    13.7    13.7   167.6   167.4     0.2
  SINGLE 2001 : 62929 ALBERTV8 - 62949 BLKLKTP8 CKT: 1    22.6    22.5    13.7    13.7   167.4   167.0     0.4
  SINGLE 2031 : 62986 HUTCHMN8 - 62988 HTCHHTI8 CKT: 1    22.7    22.7    13.7    13.7   166.8   166.6     0.2
  SINGLE 1120 : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C    22.6    22.5    13.7    13.7   166.0   165.4     0.6
  810   C1    : ** MULTIPLE CONTINGENCY **                22.6    22.5    13.7    13.7   165.8   165.0     0.8
              : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1
              : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C
  SINGLE 1121 : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1    22.6    22.5    13.7    13.7   165.7   165.0     0.7
  SINGLE 1057 : 60151 MNTCELO3 - 60152 MNTCELO4 CKT: 1    22.4    22.4    13.7    13.7   164.6   164.1     0.5
  SINGLE 1158 : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1    22.4    22.4    13.7    13.7   164.1   163.6     0.5
  SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    22.3    22.3    13.7    13.7   163.9   163.5     0.4
  SINGLE 2037 : 63031 BUNKER 3 - 63046 BUNKER 4 CKT: 1    22.3    22.3    13.7    13.7   163.8   163.3     0.5
  CNC-DKN/SHC3: ** MULTIPLE CONTINGENCY **                22.2    22.2    13.7    13.7   162.5   162.2     0.3
              : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1
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            : 60202 COON CK3 - 60272 MPLEGV23 CKT: 1
009   4     : ** MULTIPLE CONTINGENCY **                 22.2    22.1    13.7    13.7   162.1   161.8     0.3
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 2926 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1    21.9    21.9    13.7    13.7   160.6   160.4     0.2
SINGLE 2925 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1    21.9    21.9    13.7    13.7   160.6   160.3     0.3
SINGLE 2053 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1    21.9    21.7    13.7    13.7   160.2   159.5     0.7
SINGLE 1764 : 62122 WESTEND8 - 62125 BECKER 8 CKT: 1    21.7    21.7    13.7    13.7   160.2   159.9     0.3
SINGLE 1733 : 62100 BIG LAK8 - 62142 REMMLTP8 CKT: 1    21.7    21.6    13.7    13.7   159.9   159.4     0.5
SINGLE 2028 : 62984 HUTCHPT8 - 62988 HTCHHTI8 CKT: 1    21.8    21.7    13.7    13.7   159.7   159.5     0.2
SINGLE 1769 : 62125 BECKER 8 - 62939 SILVERC8 CKT: 1    21.6    21.5    13.7    13.7   159.4   159.2     0.2
670     2   : ** MULTIPLE CONTINGENCY **                 21.7    21.7    13.7    13.7   159.0   158.6     0.4
            : 63031 BUNKER 3 - 60160 SHERCO 3 CKT: 1
            : 63031 BUNKER 3 - 60202 COON CK3 CKT: 1
            : 63046 BUNKER 4 - 63031 BUNKER 3 CKT: 1
SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    21.5    21.5    13.7    13.7   158.7   158.7     0.0
SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1    21.5    21.5    13.7    13.7   158.1   157.4     0.7
SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1    21.5    21.5    13.7    13.7   158.0   157.5     0.5
SINGLE 1782 : 62134 ELKR14S8 - 63043 ELK RIV4 CKT: 2    21.5    21.5    13.7    13.7   158.0   158.1    -0.1
SINGLE 1381 : 60652 CROWRV 8 - 62931 DELANO 8 CKT: 1    21.6    21.5    13.7    13.7   157.9   157.7     0.2
SINGLE 2920 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1    21.5    21.4    13.7    13.7   157.7   157.4     0.3
SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1    21.5    21.5    13.7    13.7   157.7   157.3     0.4
660         : ** MULTIPLE CONTINGENCY **                 21.4    21.4    13.7    13.7   157.3   157.0     0.3
            : 63043 ELK RIV4 - 63046 BUNKER 4 CKT: 1
            : 63043 ELK RIV4 - 62134 ELKR14S8 CKT: 2
SINGLE 2009 : 62935 MAPLELK8 - 62949 BLKLKTP8 CKT: 1    20.9    20.9    13.7    13.7   154.4   154.2     0.2
009   8     : ** MULTIPLE CONTINGENCY **                 21.0    20.9    13.7    13.7   153.8   153.3     0.5
            : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 1413 : 60712 ANNDALE8 - 60765 MAPLELK8 CKT: 1    20.8   .....    13.7   .....   153.4   .....   *NEW*
SINGLE 1823 : 62273 MILACAD8 - 62301 MILACA 8 CKT: 1    20.9    20.9    13.7    13.7   153.3   153.1     0.2
BASE CASE   : **       BASE CASE      **                19.8    19.8    13.7    13.7   145.6   145.5     0.1
SINGLE 1753 : 62114 RDFTAP 8 - 63020 ELK RIV8 CKT: 1    18.8    18.8    13.7    13.7   138.0   137.9     0.1
SINGLE 975  : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1    18.8    18.8    13.7    13.7   137.9   137.8     0.1
SINGLE 1159 : 60202 COON CK3 - 63031 BUNKER 3 CKT: 1    18.7    18.7    13.7    13.7   137.6   137.5     0.1
SHC-CNC/BUL3: ** MULTIPLE CONTINGENCY **                 18.8    18.7    13.7    13.7   137.6   137.5     0.1
            : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
            : 60160 SHERCO 3 - 63031 BUNKER 3 CKT: 1
009   1     : ** MULTIPLE CONTINGENCY **                 18.6    18.6    13.7    13.7   136.7   136.4     0.3
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 60151 MNTCELO3 - 60160 SHERCO 3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 1892 : 62427 WILLMAR8 - 62437 SVEATAP8 CKT: 1    18.6    18.6    13.7    13.7   136.6   136.3     0.3
022       1 : ** MULTIPLE CONTINGENCY **                 18.6    18.6    13.7    13.7   136.4   136.3     0.1
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
            : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
            : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
            : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
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            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
022       3 : ** MULTIPLE CONTINGENCY **                18.5    18.4    13.7    13.7   135.6   135.1     0.5
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
CNC-KOL/TER3: ** MULTIPLE CONTINGENCY **                18.4    18.4    13.7    13.7   135.1   134.8     0.3
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
SINGLE 2014 : 62939 SILVERC8 - 62944 GOOSETP8 CKT: 1    18.4    18.4    13.7    13.7   134.9   134.9     0.0
SINGLE 1056 : 60150 MNVLTAP4 - 66550 GRANITF4 CKT: 1    18.3    18.2    13.7    13.7   134.0   133.7     0.3
009   7     : ** MULTIPLE CONTINGENCY **                18.0    17.9    13.7    13.7   132.2   131.6     0.6
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 2005 : 62932 GOOSELK8 - 62944 GOOSETP8 CKT: 1    17.9    17.9    13.7    13.7   130.7   130.6     0.1
SINGLE 2026 : 62982 HUTCHMN7 - 62983 HUTCH3M7 CKT: 1    17.6    17.5    13.7    13.7   129.1   128.3     0.8
SINGLE 974  : 60114 ELM CRK3 - 60151 MNTCELO3 CKT: 1    17.2    17.2    13.7    13.7   126.0   125.9     0.1
CNC-SHC/BUL3: ** MULTIPLE CONTINGENCY **                17.1    17.1    13.7    13.7   125.4   125.2     0.2
            : 60202 COON CK3 - 60160 SHERCO 3 CKT: 1
            : 60202 COON CK3 - 63031 BUNKER 3 CKT: 1
SINGLE 2025 : 62981 MCLEOD 7 - 62983 HUTCH3M7 CKT: 1    16.7    16.6    13.7    13.7   122.8   122.0     0.8
SINGLE 2029 : 62985 HUTCHPK8 - 62986 HUTCHMN8 CKT: 1    16.5    16.4    13.7    13.7   121.4   121.1     0.3
009   2     : ** MULTIPLE CONTINGENCY **                16.5    16.5    13.7    13.7   121.1   121.0     0.1
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1
            : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 2027 : 62982 HUTCHMN7 - 62986 HUTCHMN8 CKT: 1    16.3    16.3    13.7    13.7   120.2   119.9     0.3
SHC-CNC/ECK3: ** MULTIPLE CONTINGENCY **                15.9    15.9    13.7    13.7   116.4   116.4     0.0
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1
SINGLE 2010 : 62935 MAPLELK8 - 63024 MAPLE 1G CKT: 1    15.9    15.9    13.7    13.7   115.8   115.8     0.0
SINGLE 2019 : 62944 GOOSETP8 - 63024 MAPLE 1G CKT: 1    15.9    15.9    13.7    13.7   115.8   115.8     0.0
SINGLE 3395 : 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1    15.7    15.7    13.7    13.7   115.3   115.3     0.0
SINGLE 2024 : 62980 MCLEOD 4 - 62981 MCLEOD 7 CKT: 1    15.3    15.2    13.7    13.7   112.7   112.2     0.5
SINGLE 2018 : 62943 VICTOR 8 - 62945 WNSTNSP8 CKT: 1    15.1    15.1    13.7    13.7   111.3   111.5    -0.2
SINGLE 2020 : 62945 WNSTNSP8 - 62946 LKJENTP8 CKT: 1    15.1    15.1    13.7    13.7   111.3   111.5    -0.2
SINGLE 2919 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1    15.1    15.1    13.7    13.7   111.0   111.0     0.0
SINGLE 1171 : 60206 CROWRVR7 - 62925 DICKNSN7 CKT: 1    15.0    14.9    13.7    13.7   110.7   110.1     0.6
SINGLE 1999 : 62925 DICKNSN7 - 63030 DICKNSN3 CKT: 1    15.0    14.9    13.7    13.7   109.6   109.1     0.5
795         : ** MULTIPLE CONTINGENCY **                14.9    14.9    13.7    13.7   109.1   109.2    -0.1
            : 66550 GRANITF4 - 60150 MNVLTAP4 CKT: 1
            : 60148 MINVALY7 - 60149 MINVALT4 CKT: C
            : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1
            : 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1
            : 63054 PANTHER4 - 60742 PANTHER8 CKT: 1
DKN-CRO/STB7: ** MULTIPLE CONTINGENCY **                14.7    14.6    13.7    13.7   108.2   107.3     0.9
            : 62925 DICKNSN7 - 60206 CROWRVR7 CKT: 1
            : 62925 DICKNSN7 - 62667 ST BONI7 CKT: 1
710   2     : ** MULTIPLE CONTINGENCY **                14.6    14.6    13.7    13.7   107.9   107.4     0.5
            : 62925 DICKNSN7 - 60206 CROWRVR7 CKT: 1
            : 62925 DICKNSN7 - 62667 ST BONI7 CKT: 1
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             : 62667 ST BONI7 - 60277 WWACNIA7 CKT: 1
             : 62667 ST BONI7 - 63021 ST BONI8 CKT: 1
  SINGLE 3393 : 62946 LKJENTP8 - 62601 HOOK LK8 CKT: 1    14.5    14.5    13.7    13.7   107.2   107.4    -0.2
  SINGLE 1382 : 60652 CROWRV 8 - 62943 VICTOR 8 CKT: 1    13.4    13.4    13.7    13.7   100.8   100.9    -0.1
  SINGLE 1169 : 60206 CROWRVR7 - 60652 CROWRV 8 CKT: 1    12.6    12.5    13.7    13.7    94.5    94.2     0.3
  SINGLE 3398 : 62986 HUTCHMN8 - 62601 HOOK LK8 CKT: 1    12.6    12.6    13.7    13.7    94.2    94.3    -0.1

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  80) 62933 HIGHLND8 - 62935 MAPLELK8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1    26.2    26.2    13.7    13.7   215.2   215.2     0.0
  SINGLE 3055 : 60717 WAKEFLD8 - 62846 FRHV TP8 CKT: 1    24.9    24.8    13.7    13.7   191.1   190.7     0.4
  SINGLE 3051 : 60705 LUXBGTP8 - 62846 FRHV TP8 CKT: 1    23.4    23.3    13.7    13.7   179.4   179.0     0.4
  SINGLE 3049 : 60705 LUXBGTP8 - 62620 WATKINS8 CKT: 1    22.7    22.6    13.7    13.7   173.0   172.6     0.4
  680         : ** MULTIPLE CONTINGENCY **                22.1    22.1    13.7    13.7   172.2   172.2     0.0
             : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
             : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1    22.0    21.9    13.7    13.7   171.7   171.0     0.7
  SINGLE 2023 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1    21.9    21.8    13.7    13.7   170.9   170.5     0.4
  SINGLE 1787 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1    21.4    21.3    13.7    13.7   166.0   165.4     0.6
  SINGLE 3047 : 60703 WATKINS8 - 62620 WATKINS8 CKT: 1    21.3    21.2    13.7    13.7   163.8   163.5     0.3
  665         : ** MULTIPLE CONTINGENCY **                21.4    21.4    13.7    13.7   163.4   163.2     0.2
             : 63043 ELK RIV4 - 60152 MNTCELO4 CKT: 1
             : 63043 ELK RIV4 - 62134 ELKR14S8 CKT: 1
  SINGLE 1407 : 60703 WATKINS8 - 60704 KIMBALL8 CKT: 1    20.9    20.8    13.7    13.7   160.4   160.0     0.4
  SINGLE 2000 : 62929 ALBERTV8 - 62938 OTSEGO 8 CKT: 1    20.4    20.4    13.7    13.7   159.7   159.5     0.2
  SINGLE 1785 : 62138 BRGGLKS8 - 62139 CABLETP8 CKT: 1    20.3    20.3    13.7    13.7   157.0   157.0     0.0
  675         : ** MULTIPLE CONTINGENCY **                20.3    20.3    13.7    13.7   154.2   153.7     0.5
             : 60142 BENTON 3 - 63045 BENTON 4 CKT: 1
             : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1
             : 60142 BENTON 3 - 63045 BENTON 4 CKT: 2
  SINGLE 1034 : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1    20.3    20.3    13.7    13.7   154.2   153.7     0.5
  SINGLE 1366 : 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C    20.2    20.1    13.7    13.7   152.8   152.0     0.8
  SINGLE 1069 : 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C    20.1    20.1    13.7    13.7   152.1   152.0     0.1
  SINGLE 1765 : 62122 WESTEND8 - 62138 BRGGLKS8 CKT: 1    19.6    19.6    13.7    13.7   151.1   151.0     0.1
  SINGLE 1080 : 60162 WAKEFLD7 - 60717 WAKEFLD8 CKT: 1    20.0    19.9    13.7    13.7   151.0   150.6     0.4
  SINGLE 1781 : 62134 ELKR14S8 - 63043 ELK RIV4 CKT: 1    19.8    19.7    13.7    13.7   150.3   149.7     0.6
  SINGLE 1797 : 62150 E BL TP8 - 62965 ELKRWS18 CKT: 1    19.2    19.2    13.7    13.7   147.7   147.4     0.3
  SINGLE 1734 : 62100 BIG LAK8 - 62150 E BL TP8 CKT: 1    19.2    19.2    13.7    13.7   147.7   147.4     0.3
  SINGLE 1408 : 60704 KIMBALL8 - 60761 SOUTHVN8 CKT: 1    19.3    19.2    13.7    13.7   147.1   146.7     0.4
  SINGLE 1412 : 60712 ANNDALE8 - 60761 SOUTHVN8 CKT: 1    19.2    19.1    13.7    13.7   146.0   145.6     0.4
  500         : ** MULTIPLE CONTINGENCY **                19.2    19.2    13.7    13.7   145.2   144.7     0.5
             : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
             : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1
  SINGLE 1060 : 60152 MNTCELO4 - 63043 ELK RIV4 CKT: 1    18.9    18.9    13.7    13.7   143.1   142.9     0.2
  SINGLE 2031 : 62986 HUTCHMN8 - 62988 HTCHHTI8 CKT: 1    18.8    18.8    13.7    13.7   142.4   142.3     0.1
  SINGLE 1120 : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C    18.7    18.6    13.7    13.7   141.4   140.8     0.6
  SINGLE 1121 : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1    18.6    18.6    13.7    13.7   141.2   140.5     0.7
  810   C1    : ** MULTIPLE CONTINGENCY **                18.6    18.6    13.7    13.7   141.2   140.5     0.7
             : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1
             : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C
  SINGLE 1057 : 60151 MNTCELO3 - 60152 MNTCELO4 CKT: 1    18.5    18.4    13.7    13.7   140.0   139.6     0.4
  SINGLE 2001 : 62929 ALBERTV8 - 62949 BLKLKTP8 CKT: 1    18.1    18.1    13.7    13.7   139.9   139.6     0.3
  SINGLE 1158 : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1    18.5    18.5    13.7    13.7   139.8   139.4     0.4
  SINGLE 2037 : 63031 BUNKER 3 - 63046 BUNKER 4 CKT: 1    18.4    18.3    13.7    13.7   139.2   138.8     0.4
  SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    18.3    18.3    13.7    13.7   139.1   138.7     0.4
  CNC-DKN/SHC3: ** MULTIPLE CONTINGENCY **                18.3    18.3    13.7    13.7   138.1   137.8     0.3
             : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1
             : 60202 COON CK3 - 60272 MPLEGV23 CKT: 1
  009   4     : ** MULTIPLE CONTINGENCY **                18.3    18.2    13.7    13.7   137.7   137.3     0.4
             : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
             : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
             : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
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            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 2926 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1    17.9    17.9    13.7    13.7   135.9   135.6     0.3
SINGLE 2925 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1    17.9    17.9    13.7    13.7   135.9   135.6     0.3
SINGLE 2053 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1    17.9    17.8    13.7    13.7   135.7   135.1     0.6
SINGLE 2028 : 62984 HUTCHPT8 - 62988 HTCHHTI8 CKT: 1    17.9    17.9    13.7    13.7   135.5   135.3     0.2
SINGLE 1764 : 62122 WESTEND8 - 62125 BECKER 8 CKT: 1    17.7    17.6    13.7    13.7   134.6   134.3     0.3
670     2   : ** MULTIPLE CONTINGENCY **                17.7    17.7    13.7    13.7   134.1   133.8     0.3
            : 63031 BUNKER 3 - 60160 SHERCO 3 CKT: 1
            : 63031 BUNKER 3 - 60202 COON CK3 CKT: 1
            : 63046 BUNKER 4 - 63031 BUNKER 3 CKT: 1
SINGLE 1733 : 62100 BIG LAK8 - 62142 REMMLTP8 CKT: 1    17.6    17.5    13.7    13.7   133.9   133.4     0.5
SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    17.6    17.6    13.7    13.7   133.8   133.6     0.2
SINGLE 1782 : 62134 ELKR14S8 - 63043 ELK RIV4 CKT: 2    17.6    17.6    13.7    13.7   133.4   133.3     0.1
SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1    17.6    17.5    13.7    13.7   133.3   132.7     0.6
SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1    17.6    17.5    13.7    13.7   133.2   132.6     0.6
SINGLE 2920 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1    17.5    17.5    13.7    13.7   132.9   132.7     0.2
SINGLE 1381 : 60652 CROWRV 8 - 62931 DELANO 8 CKT: 1    17.6    17.6    13.7    13.7   132.9   132.8     0.1
SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1    17.6    17.6    13.7    13.7   132.9   132.6     0.3
SINGLE 1769 : 62125 BECKER 8 - 62939 SILVERC8 CKT: 1    17.3    17.3    13.7    13.7   132.6   132.5     0.1
660         : ** MULTIPLE CONTINGENCY **                17.5    17.5    13.7    13.7   132.4   132.1     0.3
            : 63043 ELK RIV4 - 63046 BUNKER 4 CKT: 1
            : 63043 ELK RIV4 - 62134 ELKR14S8 CKT: 2
009   8     : ** MULTIPLE CONTINGENCY **                17.1    17.1    13.7    13.7   129.1   128.6     0.5
            : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 1823 : 62273 MILACAD8 - 62301 MILACA 8 CKT: 1    17.0    17.0    13.7    13.7   128.4   128.2     0.2
BASE CASE   : **       BASE CASE      **                15.9    15.9    13.7    13.7   120.5   120.4     0.1
SINGLE 975  : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1    14.9    14.9    13.7    13.7   112.7   112.5     0.2
SINGLE 1159 : 60202 COON CK3 - 63031 BUNKER 3 CKT: 1    14.8    14.8    13.7    13.7   112.1   112.0     0.1
SHC-CNC/BUL3: ** MULTIPLE CONTINGENCY **                14.8    14.8    13.7    13.7   112.1   112.0     0.1
            : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
            : 60160 SHERCO 3 - 63031 BUNKER 3 CKT: 1
009   1     : ** MULTIPLE CONTINGENCY **                14.7    14.7    13.7    13.7   111.3   110.9     0.4
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 60151 MNTCELO3 - 60160 SHERCO 3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 1892 : 62427 WILLMAR8 - 62437 SVEATAP8 CKT: 1    14.7    14.7    13.7    13.7   111.1   110.7     0.4
022       1 : ** MULTIPLE CONTINGENCY **                14.7    14.7    13.7    13.7   111.0   110.9     0.1
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
            : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
            : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
            : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
022       3 : ** MULTIPLE CONTINGENCY **                14.6    14.6    13.7    13.7   110.1   109.7     0.4
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
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              : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
              : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
  CNC-KOL/TER3: ** MULTIPLE CONTINGENCY **                14.5    14.5    13.7    13.7   109.7   109.5     0.2
              : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
              : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
  SINGLE 2014 : 62939 SILVERC8 - 62944 GOOSETP8 CKT: 1    14.5    14.5    13.7    13.7   109.6   109.6     0.0
  SINGLE 1056 : 60150 MNVLTAP4 - 66550 GRANITF4 CKT: 1    14.3    14.3    13.7    13.7   108.3   107.9     0.4
  SINGLE 2005 : 62932 GOOSELK8 - 62944 GOOSETP8 CKT: 1    14.2    14.2    13.7    13.7   106.6   106.4     0.2
  009   7     : ** MULTIPLE CONTINGENCY **                14.1    14.0    13.7    13.7   106.6   106.0     0.6
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
              : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
              : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
              : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
              : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
  SINGLE 2026 : 62982 HUTCHMN7 - 62983 HUTCH3M7 CKT: 1    13.7    13.6    13.7    13.7   103.3   102.5     0.8
  SINGLE 974  : 60114 ELM CRK3 - 60151 MNTCELO3 CKT: 1    13.3    13.2    13.7    13.7   100.0    99.9     0.1
  CNC-SHC/BUL3: ** MULTIPLE CONTINGENCY **                13.2    13.2    13.7    13.7    99.7    99.5     0.2
              : 60202 COON CK3 - 60160 SHERCO 3 CKT: 1
              : 60202 COON CK3 - 63031 BUNKER 3 CKT: 1
  SINGLE 2025 : 62981 MCLEOD 7 - 62983 HUTCH3M7 CKT: 1    12.8    12.7    13.7    13.7    96.4    95.9     0.5
  SINGLE 2029 : 62985 HUTCHPK8 - 62986 HUTCHMN8 CKT: 1    12.6    12.6    13.7    13.7    95.5    95.1     0.4
  009   2     : ** MULTIPLE CONTINGENCY **                12.6    12.6    13.7    13.7    95.1    94.9     0.2
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
              : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1
              : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
              : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
              : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
              : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
  SINGLE 2027 : 62982 HUTCHMN7 - 62986 HUTCHMN8 CKT: 1    12.5    12.4    13.7    13.7    94.4    94.1     0.3
  SINGLE 2019 : 62944 GOOSETP8 - 63024 MAPLE 1G CKT: 1    12.4    12.4    13.7    13.7    92.1    92.0     0.1
  SINGLE 2010 : 62935 MAPLELK8 - 63024 MAPLE 1G CKT: 1    12.4    12.4    13.7    13.7    92.1    92.0     0.1
  SHC-CNC/ECK3: ** MULTIPLE CONTINGENCY **                12.0   .....    13.7   .....    90.1   .....   *NEW*
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1

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  81) 62934 HOWARDL8 - 62943 VICTOR 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1    39.1    39.1    17.3    17.3   236.2   236.2     0.0
  SINGLE 3055 : 60717 WAKEFLD8 - 62846 FRHV TP8 CKT: 1    35.8    35.7    17.3    17.3   207.1   206.8     0.3
  SINGLE 2013 : 62938 OTSEGO 8 - 63020 ELK RIV8 CKT: 1    35.1    35.1    17.3    17.3   206.2   206.2     0.0
  SINGLE 3051 : 60705 LUXBGTP8 - 62846 FRHV TP8 CKT: 1    34.2    34.2    17.3    17.3   198.2   197.9     0.3
  680         : ** MULTIPLE CONTINGENCY **                33.7    33.7    17.3    17.3   196.4   196.6    -0.2
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1    33.7    33.6    17.3    17.3   196.2   195.6     0.6
  SINGLE 2023 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1    33.6    33.6    17.3    17.3   195.9   195.5     0.4
  SINGLE 3049 : 60705 LUXBGTP8 - 62620 WATKINS8 CKT: 1    33.3    33.3    17.3    17.3   192.4   192.2     0.2
  SINGLE 1787 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1    32.8    32.7    17.3    17.3   191.0   190.4     0.6
  SINGLE 2000 : 62929 ALBERTV8 - 62938 OTSEGO 8 CKT: 1    32.2    32.1    17.3    17.3   187.9   187.5     0.4
  SINGLE 3047 : 60703 WATKINS8 - 62620 WATKINS8 CKT: 1    32.3    32.2    17.3    17.3   187.2   187.0     0.2
  665         : ** MULTIPLE CONTINGENCY **                32.2    32.1    17.3    17.3   185.8   185.7     0.1
              : 63043 ELK RIV4 - 60152 MNTCELO4 CKT: 1
              : 63043 ELK RIV4 - 62134 ELKR14S8 CKT: 1
  SINGLE 1407 : 60703 WATKINS8 - 60704 KIMBALL8 CKT: 1    31.8    31.7    17.3    17.3   184.2   184.0     0.2
  SINGLE 1785 : 62138 BRGGLKS8 - 62139 CABLETP8 CKT: 1    31.5    31.5    17.3    17.3   183.0   183.3    -0.3
  SINGLE 1765 : 62122 WESTEND8 - 62138 BRGGLKS8 CKT: 1    30.7    30.7    17.3    17.3   178.2   178.2     0.0
  675         : ** MULTIPLE CONTINGENCY **                30.8    30.7    17.3    17.3   177.4   176.9     0.5
              : 60142 BENTON 3 - 63045 BENTON 4 CKT: 1
              : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1
              : 60142 BENTON 3 - 63045 BENTON 4 CKT: 2
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SINGLE 1034	: 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1	30.8	30.7	17.3	17.3	177.4	176.9	0.5
SINGLE 1797	: 62150 E BL TP8 - 62965 ELKRWS18 CKT: 1	30.3	30.2	17.3	17.3	175.6	175.4	0.2
SINGLE 1734	: 62100 BIG LAK8 - 62150 E BL TP8 CKT: 1	30.3	30.2	17.3	17.3	175.6	175.4	0.2
SINGLE 1781	: 62134 ELKR14S8 - 63043 ELK RIV4 CKT: 1	30.3	30.2	17.3	17.3	174.7	174.2	0.5
SINGLE 1366	: 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C	30.3	30.1	17.3	17.3	174.5	173.8	0.7
SINGLE 1069	: 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C	30.2	30.2	17.3	17.3	174.1	173.8	0.3
SINGLE 1080	: 60162 WAKEFLD7 - 60717 WAKEFLD8 CKT: 1	30.2	30.1	17.3	17.3	173.8	173.3	0.5
SINGLE 1408	: 60704 KIMBALL8 - 60761 SOUTHVN8 CKT: 1	30.0	29.9	17.3	17.3	173.2	173.0	0.2
SINGLE 1412	: 60712 ANNDALE8 - 60761 SOUTHVN8 CKT: 1	29.8	29.8	17.3	17.3	172.3	172.0	0.3
SINGLE 2001	: 62929 ALBERTV8 - 62949 BLKLKTP8 CKT: 1	29.4	29.3	17.3	17.3	170.9	170.7	0.2
500	: ** MULTIPLE CONTINGENCY **	29.3	29.2	17.3	17.3	168.8	168.5	0.3
	: 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1							
	: 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1							
SINGLE 1060	: 60152 MNTCELO4 - 63043 ELK RIV4 CKT: 1	29.2	29.2	17.3	17.3	168.6	168.5	0.1
SINGLE 2031	: 62986 HUTCHMN8 - 62988 HTCHHTI8 CKT: 1	29.1	29.1	17.3	17.3	168.0	167.9	0.1
SINGLE 1120	: 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C	29.0	28.9	17.3	17.3	167.5	166.9	0.6
SINGLE 1121	: 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1	29.0	28.9	17.3	17.3	167.3	166.5	0.8
810 C1	: ** MULTIPLE CONTINGENCY **	29.0	28.9	17.3	17.3	167.3	166.5	0.8
	: 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1							
	: 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C							
SINGLE 1057	: 60151 MNTCELO3 - 60152 MNTCELO4 CKT: 1	28.9	28.8	17.3	17.3	166.3	165.9	0.4
SINGLE 2927	: 60160 SHERCO 3 - 60002 SHERC33G CKT: 1	28.7	28.7	17.3	17.3	165.9	165.6	0.3
SINGLE 2037	: 63031 BUNKER 3 - 63046 BUNKER 4 CKT: 1	28.8	28.7	17.3	17.3	165.7	165.3	0.4
SINGLE 1158	: 60202 COON CK3 - 63030 DICKNSN3 CKT: 1	28.8	28.7	17.3	17.3	165.7	165.3	0.4
CNC-DKN/SHC3	: ** MULTIPLE CONTINGENCY **	28.7	28.6	17.3	17.3	164.6	164.3	0.3
	: 60202 COON CK3 - 63030 DICKNSN3 CKT: 1							
	: 60202 COON CK3 - 60272 MPLEGV23 CKT: 1							
009 4	: ** MULTIPLE CONTINGENCY **	28.6	28.5	17.3	17.3	164.3	163.9	0.4
	: 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1							
	: 60272 MPLEGV23 - 60202 COON CK3 CKT: 1							
	: 63030 DICKNSN3 - 60202 COON CK3 CKT: 1							
	: 60202 COON CK3 - 61488 CNCMID1Y CKT: 1							
	: 61488 CNCMID1Y - 60203 COON CK7 CKT: 1							
	: 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1							
SINGLE 1769	: 62125 BECKER 8 - 62939 SILVERC8 CKT: 1	28.3	28.3	17.3	17.3	164.0	163.9	0.1
SINGLE 1733	: 62100 BIG LAK8 - 62142 REMMLTP8 CKT: 1	28.3	28.3	17.3	17.3	163.9	163.6	0.3
SINGLE 1764	: 62122 WESTEND8 - 62125 BECKER 8 CKT: 1	28.3	28.3	17.3	17.3	163.8	163.6	0.2
SINGLE 2926	: 60160 SHERCO 3 - 60001 SHERC32G CKT: 1	28.3	28.3	17.3	17.3	163.3	163.1	0.2
SINGLE 2925	: 60160 SHERCO 3 - 60000 SHERC31G CKT: 1	28.3	28.3	17.3	17.3	163.2	163.1	0.1
SINGLE 2053	: 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1	28.3	28.1	17.3	17.3	162.8	162.1	0.7
SINGLE 2028	: 62984 HUTCHPT8 - 62988 HTCHHTI8 CKT: 1	28.2	28.2	17.3	17.3	162.8	162.8	0.0
670 2	: ** MULTIPLE CONTINGENCY **	28.2	28.1	17.3	17.3	162.2	161.9	0.3
	: 63031 BUNKER 3 - 60160 SHERCO 3 CKT: 1							
	: 63031 BUNKER 3 - 60202 COON CK3 CKT: 1							
	: 63046 BUNKER 4 - 63031 BUNKER 3 CKT: 1							
SINGLE 958	: 60108 WILMART3 - 60192 BLUE LK3 CKT: 1	28.0	28.0	17.3	17.3	162.1	162.1	0.0
SINGLE 3362	: 61910 MILACA 4 - 63045 BENTON 4 CKT: 1	28.0	27.9	17.3	17.3	161.5	160.9	0.6
SINGLE 1782	: 62134 ELKR14S8 - 63043 ELK RIV4 CKT: 2	28.0	28.0	17.3	17.3	161.5	161.4	0.1
SINGLE 1381	: 60652 CROWRV 8 - 62931 DELANO 8 CKT: 1	28.0	28.0	17.3	17.3	161.3	161.2	0.1
SINGLE 1684	: 61910 MILACA 4 - 62301 MILACA 8 CKT: 1	28.0	27.9	17.3	17.3	161.3	161.0	0.3
SINGLE 2920	: 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1	27.9	27.9	17.3	17.3	161.0	160.8	0.2
SINGLE 1848	: 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1	28.0	27.9	17.3	17.3	161.0	160.7	0.3
660	: ** MULTIPLE CONTINGENCY **	27.9	27.9	17.3	17.3	160.8	160.7	0.1
	: 63043 ELK RIV4 - 63046 BUNKER 4 CKT: 1							
	: 63043 ELK RIV4 - 62134 ELKR14S8 CKT: 2							
SINGLE 2009	: 62935 MAPLELK8 - 62949 BLKLKTP8 CKT: 1	27.6	27.6	17.3	17.3	160.2	160.1	0.1
SINGLE 1413	: 60712 ANNDALE8 - 60765 MAPLELK8 CKT: 1	27.4	27.4	17.3	17.3	158.5	158.2	0.3
009 8	: ** MULTIPLE CONTINGENCY **	27.5	27.4	17.3	17.3	158.1	157.7	0.4
	: 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1							
	: 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1							
	: 60272 MPLEGV23 - 60202 COON CK3 CKT: 1							
	: 63030 DICKNSN3 - 60202 COON CK3 CKT: 1							
	: 60202 COON CK3 - 61488 CNCMID1Y CKT: 1							

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            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 1823 : 62273 MILACAD8 - 62301 MILACA 8 CKT: 1    27.4    27.3    17.3    17.3   157.7   157.6     0.1
BASE CASE   : **       BASE CASE      **                26.3    26.3    17.3    17.3   151.8   151.8     0.0
SINGLE 975  : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1    25.3    25.3    17.3    17.3   146.0   146.0     0.0
SINGLE 1159 : 60202 COON CK3 - 63031 BUNKER 3 CKT: 1    25.3    25.3    17.3    17.3   145.9   145.9     0.0
SINGLE 1753 : 62114 RDFTAP 8 - 63020 ELK RIV8 CKT: 1    25.3    25.3    17.3    17.3   145.8   145.7     0.1
SINGLE 2022 : 62948 BLACKLK8 - 62949 BLKLKTP8 CKT: 1    25.3    25.3    17.3    17.3   145.5   145.4     0.1
009   1     : ** MULTIPLE CONTINGENCY **                25.2    25.2    17.3    17.3   145.2   145.0     0.2
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 60151 MNTCELO3 - 60160 SHERCO 3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 1892 : 62427 WILLMAR8 - 62437 SVEATAP8 CKT: 1    25.2    25.1    17.3    17.3   145.1   144.9     0.2
022       1 : ** MULTIPLE CONTINGENCY **                25.1    25.1    17.3    17.3   144.9   144.8     0.1
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
            : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
            : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
            : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
022       3 : ** MULTIPLE CONTINGENCY **                25.1    25.0    17.3    17.3   144.3   143.8     0.5
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
CNC-KOL/TER3: ** MULTIPLE CONTINGENCY **                25.0    24.9    17.3    17.3   143.9   143.6     0.3
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
SINGLE 2014 : 62939 SILVERC8 - 62944 GOOSETP8 CKT: 1    24.9    24.9    17.3    17.3   143.6   143.6     0.0
SINGLE 1056 : 60150 MNVLTAP4 - 66550 GRANITF4 CKT: 1    24.8    24.8    17.3    17.3   143.3   143.0     0.3
009   7     : ** MULTIPLE CONTINGENCY **                24.6    24.5    17.3    17.3   141.8   141.3     0.5
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 2005 : 62932 GOOSELK8 - 62944 GOOSETP8 CKT: 1    24.3    24.2    17.3    17.3   139.4   139.3     0.1
SINGLE 2026 : 62982 HUTCHMN7 - 62983 HUTCH3M7 CKT: 1    24.2    24.1    17.3    17.3   139.3   138.9     0.4
SINGLE 974  : 60114 ELM CRK3 - 60151 MNTCELO3 CKT: 1    23.8    23.8    17.3    17.3   137.2   137.2     0.0
CNC-SHC/BUL3: ** MULTIPLE CONTINGENCY **                23.7    23.6    17.3    17.3   136.6   136.5     0.1
            : 60202 COON CK3 - 60160 SHERCO 3 CKT: 1
            : 60202 COON CK3 - 63031 BUNKER 3 CKT: 1
SINGLE 2025 : 62981 MCLEOD 7 - 62983 HUTCH3M7 CKT: 1    23.4    23.2    17.3    17.3   134.8   134.1     0.7
SINGLE 2029 : 62985 HUTCHPK8 - 62986 HUTCHMN8 CKT: 1    23.1    23.0    17.3    17.3   133.6   133.4     0.2
009   2     : ** MULTIPLE CONTINGENCY **                23.2    23.2    17.3    17.3   133.4   133.4     0.0
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1
            : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 2027 : 62982 HUTCHMN7 - 62986 HUTCHMN8 CKT: 1    22.9    22.8    17.3    17.3   132.7   132.5     0.2
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SHC-CNC/ECK3: ** MULTIPLE CONTINGENCY **                22.6    22.5    17.3    17.3   130.0   129.9     0.1
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1
SINGLE 3395 : 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1    22.4    22.4    17.3    17.3   129.5   129.4     0.1
SINGLE 2019 : 62944 GOOSETP8 - 63024 MAPLE 1G CKT: 1    22.2    22.2    17.3    17.3   127.5   127.5     0.0
SINGLE 2010 : 62935 MAPLELK8 - 63024 MAPLE 1G CKT: 1    22.2    22.2    17.3    17.3   127.5   127.5     0.0
SINGLE 2024 : 62980 MCLEOD 4 - 62981 MCLEOD 7 CKT: 1    22.0    21.9    17.3    17.3   127.2   126.7     0.5
SINGLE 1171 : 60206 CROWRVR7 - 62925 DICKNSN7 CKT: 1    21.7    21.6    17.3    17.3   125.6   125.2     0.4
795         : ** MULTIPLE CONTINGENCY **                21.5    21.5    17.3    17.3   124.9   125.0    -0.1
            : 66550 GRANITF4 - 60150 MNVLTAP4 CKT: 1
            : 60148 MINVALY7 - 60149 MINVALT4 CKT: C
            : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1
            : 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1
            : 63054 PANTHER4 - 60742 PANTHER8 CKT: 1
SINGLE 1999 : 62925 DICKNSN7 - 63030 DICKNSN3 CKT: 1    21.7    21.6    17.3    17.3   124.9   124.5     0.4
DKN-CRO/STB7: ** MULTIPLE CONTINGENCY **                21.4    21.2    17.3    17.3   123.9   123.1     0.8
            : 62925 DICKNSN7 - 60206 CROWRVR7 CKT: 1
            : 62925 DICKNSN7 - 62667 ST BONI7 CKT: 1
710   2     : ** MULTIPLE CONTINGENCY **                21.3    21.3    17.3    17.3   123.6   123.2     0.4
            : 62925 DICKNSN7 - 60206 CROWRVR7 CKT: 1
            : 62925 DICKNSN7 - 62667 ST BONI7 CKT: 1
            : 62667 ST BONI7 - 60277 WWACNIA7 CKT: 1
            : 62667 ST BONI7 - 63021 ST BONI8 CKT: 1
SINGLE 3393 : 62946 LKJENTP8 - 62601 HOOK LK8 CKT: 1    21.2    21.2    17.3    17.3   122.9   123.0    -0.1
SINGLE 1382 : 60652 CROWRV 8 - 62943 VICTOR 8 CKT: 1    19.5    19.5    17.3    17.3   116.0   115.9     0.1
SINGLE 3398 : 62986 HUTCHMN8 - 62601 HOOK LK8 CKT: 1    19.2    19.2    17.3    17.3   112.6   112.7    -0.1
SINGLE 1169 : 60206 CROWRVR7 - 60652 CROWRV 8 CKT: 1    18.8    18.7    17.3    17.3   111.4   111.1     0.3
SHC-CNC/BUL3: ** MULTIPLE CONTINGENCY **               .....    25.3   .....    17.3   .....   145.9  *ELIM*
            : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
            : 60160 SHERCO 3 - 63031 BUNKER 3 CKT: 1

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 82) 62947 DICKIN 8 - 62950 ROCKFRD8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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710   2     : ** MULTIPLE CONTINGENCY **                44.4    44.4    30.2    30.2   143.2   143.3    -0.1
            : 62925 DICKNSN7 - 60206 CROWRVR7 CKT: 1
            : 62925 DICKNSN7 - 62667 ST BONI7 CKT: 1
            : 62667 ST BONI7 - 60277 WWACNIA7 CKT: 1
            : 62667 ST BONI7 - 63021 ST BONI8 CKT: 1
SINGLE 1171 : 60206 CROWRVR7 - 62925 DICKNSN7 CKT: 1    40.4    40.4    30.2    30.2   130.5   130.5     0.0
665         : ** MULTIPLE CONTINGENCY **                38.5    38.5    30.2    30.2   125.8   125.8     0.0
            : 63043 ELK RIV4 - 60152 MNTCELO4 CKT: 1
            : 63043 ELK RIV4 - 62134 ELKR14S8 CKT: 1
SINGLE 1169 : 60206 CROWRVR7 - 60652 CROWRV 8 CKT: 1    37.6    37.6    30.2    30.2   123.3   123.3     0.0
SINGLE 1781 : 62134 ELKR14S8 - 63043 ELK RIV4 CKT: 1    35.5    35.5    30.2    30.2   115.4   115.3     0.1
SINGLE 1381 : 60652 CROWRV 8 - 62931 DELANO 8 CKT: 1    35.0    35.0    30.2    30.2   114.8   114.8     0.0
009   4     : ** MULTIPLE CONTINGENCY **                35.1    35.1    30.2    30.2   113.4   113.3     0.1
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
CNC-DKN/SHC3: ** MULTIPLE CONTINGENCY **                35.1    35.0    30.2    30.2   113.3   113.2     0.1
            : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1
            : 60202 COON CK3 - 60272 MPLEGV23 CKT: 1
SINGLE 1158 : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1    35.0    34.9    30.2    30.2   112.9   112.8     0.1
SINGLE 1060 : 60152 MNTCELO4 - 63043 ELK RIV4 CKT: 1    34.7    34.7    30.2    30.2   112.6   112.6     0.0
SINGLE 2004 : 62931 DELANO 8 - 62941 CRCRNSW8 CKT: 1    34.1    34.1    30.2    30.2   111.1   111.0     0.1
655         : ** MULTIPLE CONTINGENCY **                33.5    33.5    30.2    30.2   110.0   110.0     0.0
            : 62924 MEDINA 7 - 60206 CROWRVR7 CKT: 1
            : 62924 MEDINA 7 - 62951 MEDINA 8 CKT: 1
009   8     : ** MULTIPLE CONTINGENCY **                34.1    34.0    30.2    30.2   109.8   109.7     0.1
```

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            : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 1996 : 62924 MEDINA 7 - 62951 MEDINA 8 CKT: 1    33.1    33.1    30.2    30.2   109.0   109.0     0.0
PKL-DKN/ECK3: ** MULTIPLE CONTINGENCY **                33.4    33.4    30.2    30.2   108.4   108.4     0.0
            : 60233 PARKERS3 - 60270 MPLEGV13 CKT: 1
            : 60233 PARKERS3 - 60114 ELM CRK3 CKT: 1
009   5     : ** MULTIPLE CONTINGENCY **                33.3    33.3    30.2    30.2   108.4   108.4     0.0
            : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
            : 63030 DICKNSN3 - 60270 MPLEGV13 CKT: 1
            : 60270 MPLEGV13 - 60233 PARKERS3 CKT: 1
SINGLE 1278 : 60270 MPLEGV13 - 63030 DICKNSN3 CKT: 1    33.3    33.3    30.2    30.2   108.2   108.2     0.0
SINGLE 1221 : 60233 PARKERS3 - 60270 MPLEGV13 CKT: 1    33.4    33.4    30.2    30.2   108.2   108.2     0.0
SINGLE 2037 : 63031 BUNKER 3 - 63046 BUNKER 4 CKT: 1    33.0    33.0    30.2    30.2   107.1   107.0     0.1
SINGLE 1057 : 60151 MNTCELO3 - 60152 MNTCELO4 CKT: 1    32.5    32.5    30.2    30.2   105.6   105.6     0.0
SINGLE 2011 : 62936 MARY LK8 - 62947 DICKIN 8 CKT: 1    32.5    32.5    30.2    30.2   105.2   105.2     0.0
675         : ** MULTIPLE CONTINGENCY **                32.2    32.2    30.2    30.2   104.6   104.5     0.1
            : 60142 BENTON 3 - 63045 BENTON 4 CKT: 1
            : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1
            : 60142 BENTON 3 - 63045 BENTON 4 CKT: 2
SINGLE 1034 : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1    32.2    32.2    30.2    30.2   104.6   104.5     0.1
SINGLE 1780 : 62134 ELKR14S8 - 63020 ELK RIV8 CKT: 1    32.2    32.2    30.2    30.2   104.5   104.5     0.0
670     2   : ** MULTIPLE CONTINGENCY **                32.2    32.1    30.2    30.2   104.4   104.4     0.0
            : 63031 BUNKER 3 - 60160 SHERCO 3 CKT: 1
            : 63031 BUNKER 3 - 60202 COON CK3 CKT: 1
            : 63046 BUNKER 4 - 63031 BUNKER 3 CKT: 1
SINGLE 1782 : 62134 ELKR14S8 - 63043 ELK RIV4 CKT: 2    32.0    32.0    30.2    30.2   104.0   104.1    -0.1
660         : ** MULTIPLE CONTINGENCY **                31.8    31.8    30.2    30.2   103.3   103.2     0.1
            : 63043 ELK RIV4 - 63046 BUNKER 4 CKT: 1
            : 63043 ELK RIV4 - 62134 ELKR14S8 CKT: 2
670     1   : ** MULTIPLE CONTINGENCY **                31.6    31.6    30.2    30.2   102.2   102.2     0.0
            : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
            : 63031 BUNKER 3 - 60160 SHERCO 3 CKT: 1
            : 63031 BUNKER 3 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61487 CNCMID2Y CKT: 1
            : 61487 CNCMID2Y - 60203 COON CK7 CKT: 1
            : 61487 CNCMID2Y - 60655 CNCTER29 CKT: 1
            : 63046 BUNKER 4 - 63031 BUNKER 3 CKT: 1
SINGLE 1444 : 60772 ORONO  8 - 62951 MEDINA 8 CKT: 1    31.2    31.2    30.2    30.2   102.1   102.1     0.0
SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1    31.2    31.2    30.2    30.2   101.5   101.5     0.0
SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1    31.3    31.2    30.2    30.2   101.5   101.4     0.1
SINGLE 1823 : 62273 MILACAD8 - 62301 MILACA 8 CKT: 1    31.2    31.2    30.2    30.2   101.4   101.4     0.0
SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1    31.1    31.1    30.2    30.2   101.1   101.1     0.0
680         : ** MULTIPLE CONTINGENCY **                31.1    31.1    30.2    30.2   101.1   101.0     0.1
            : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
            : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1    31.1    31.1    30.2    30.2   101.1   101.0     0.1
710   1     : ** MULTIPLE CONTINGENCY **                31.1    31.1    30.2    30.2   100.6   100.6     0.0
            : 62925 DICKNSN7 - 62667 ST BONI7 CKT: 1
            : 62667 ST BONI7 - 60277 WWACNIA7 CKT: 1
            : 62667 ST BONI7 - 63021 ST BONI8 CKT: 1
SINGLE 1166 : 60203 COON CK7 - 62090 PRKWOOD7 CKT: 1    30.7    30.7    30.2    30.2    99.7    99.6     0.1
SINGLE 1170 : 60206 CROWRVR7 - 62924 MEDINA 7 CKT: 1    30.7    30.7    30.2    30.2    99.6    99.6     0.0
SINGLE 1785 : 62138 BRGGLKS8 - 62139 CABLETP8 CKT: 1    30.6    30.5    30.2    30.2    99.2    99.2     0.0
SINGLE 1727 : 62090 PRKWOOD7 - 62132 PRKWOOD8 CKT: 2    30.4    30.4    30.2    30.2    98.8    98.8     0.0
SINGLE 1795 : 62147 BNKRLK 8 - 63046 BUNKER 4 CKT: 1    30.4    30.4    30.2    30.2    98.8    98.7     0.1
765         : ** MULTIPLE CONTINGENCY **                30.4    30.4    30.2    30.2    98.7    98.7     0.0
            : 63048 RUSH CY4 - 60237 REDROCK4 CKT: 1
            : 60236 REDROCK3 - 60237 REDROCK4 CKT: 1
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              : 60361 ROCKCR 4 - 63048 RUSH CY4 CKT: 1
SINGLE 1997 : 62925 DICKNSN7 - 62926 DCKSNSS7 CKT: 1    30.4    30.4    30.2    30.2    98.6    98.6     0.0
SINGLE 1067 : 60155 PULASKI7 - 62926 DCKSNSS7 CKT: 1    30.3    30.3    30.2    30.2    98.5    98.5     0.0
SINGLE 1765 : 62122 WESTEND8 - 62138 BRGGLKS8 CKT: 1    30.3    30.3    30.2    30.2    98.5    98.5     0.0
SINGLE 3055 : 60717 WAKEFLD8 - 62846 FRHV TP8 CKT: 1    30.3    30.3    30.2    30.2    98.4    98.4     0.0
SINGLE 1755 : 62116 RAMSEY 8 - 62147 BNKRLK 8 CKT: 1    30.3    30.3    30.2    30.2    98.4    98.4     0.0
BASE CASE   : **       BASE CASE      **                29.3    29.3    30.2    30.2    95.1    95.1     0.0
SINGLE 964  : 60110 WILMART7 - 60194 CARVRCO7 CKT: 1    28.2    28.2    30.2    30.2    92.1    92.1     0.0
SINGLE 1771 : 62126 PIPELIN8 - 62135 STFRNCS8 CKT: 1    28.2    28.2    30.2    30.2    91.6    91.6     0.0
705       1 : ** MULTIPLE CONTINGENCY **                28.0    28.0    30.2    30.2    91.5    91.5     0.0
              : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1
              : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
              : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 1
SINGLE 1061 : 60153 MNTCELO7 - 60155 PULASKI7 CKT: 1    28.0    28.0    30.2    30.2    91.4    91.4     0.0
SINGLE 1770 : 62126 PIPELIN8 - 62134 ELKR14S8 CKT: 1    28.1    28.1    30.2    30.2    91.3    91.3     0.0
SINGLE 1767 : 62124 ZIMERMN8 - 62149 N ER TP8 CKT: 1    28.2    28.2    30.2    30.2    91.3    91.3     0.0
SINGLE 2023 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1    28.1    28.1    30.2    30.2    91.3    91.2     0.1
SINGLE 1779 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1    28.2    28.2    30.2    30.2    91.3    91.3     0.0
SINGLE 1796 : 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1    28.2    28.2    30.2    30.2    91.3    91.3     0.0
009   7     : ** MULTIPLE CONTINGENCY **                28.0    28.0    30.2    30.2    91.1    91.1     0.0
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
              : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
              : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
              : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
              : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
MNN-HSN/LAP7: ** MULTIPLE CONTINGENCY **                27.9    27.9    30.2    30.2    91.0    91.0     0.0
              : 60153 MNTCELO7 - 60269 HASSAN 7 CKT: 1
              : 60153 MNTCELO7 - 60155 PULASKI7 CKT: 1
BLL-EDP/PKL3: ** MULTIPLE CONTINGENCY **                27.9    27.9    30.2    30.2    91.0    91.0     0.0
              : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
              : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1
SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    28.0    28.0    30.2    30.2    90.8    90.9    -0.1
SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1    27.9    27.9    30.2    30.2    90.8    90.7     0.1
SINGLE 1142 : 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1    27.9    27.7    30.2    30.2    90.7    90.0     0.7
SINGLE 944  : 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1    27.8    27.8    30.2    30.2    90.6    90.6     0.0
SINGLE 1742 : 62105 DAYTON 8 - 62114 RDFTAP 8 CKT: 1    27.8    27.8    30.2    30.2    90.3    90.3     0.0
SINGLE 1159 : 60202 COON CK3 - 63031 BUNKER 3 CKT: 1    27.6    27.6    30.2    30.2    90.2    90.2     0.0
SINGLE 1753 : 62114 RDFTAP 8 - 63020 ELK RIV8 CKT: 1    27.8    27.8    30.2    30.2    90.1    90.1     0.0

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 83) 62965 ELKRWS18 - 62967 ELKRWS28 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
680         : ** MULTIPLE CONTINGENCY **                78.0    77.9    53.0    53.0   149.6   149.7    -0.1
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1    77.5    77.5    53.0    53.0   149.0   149.0     0.0
SINGLE 1785 : 62138 BRGGLKS8 - 62139 CABLETP8 CKT: 1    69.7    69.6    53.0    53.0   133.1   133.3    -0.2
SINGLE 2013 : 62938 OTSEGO 8 - 63020 ELK RIV8 CKT: 1    57.0    57.0    53.0    53.0   108.0   108.1    -0.1
SINGLE 1768 : 62125 BECKER 8 - 62137 BCKRNSP8 CKT: 1    54.4    54.4    53.0    53.0   103.6   103.6     0.0
SINGLE 1760 : 62119 THOMPLK8 - 62137 BCKRNSP8 CKT: 1    54.5    54.5    53.0    53.0   103.6   103.6     0.0
675         : ** MULTIPLE CONTINGENCY **                54.1    54.1    53.0    53.0   102.8   102.8     0.0
              : 60142 BENTON 3 - 63045 BENTON 4 CKT: 1
              : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1
              : 60142 BENTON 3 - 63045 BENTON 4 CKT: 2
SINGLE 1034 : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1    54.1    54.1    53.0    53.0   102.8   102.8     0.0
SINGLE 2000 : 62929 ALBERTV8 - 62938 OTSEGO 8 CKT: 1    53.9    53.9    53.0    53.0   102.1   102.2    -0.1
SINGLE 3055 : 60717 WAKEFLD8 - 62846 FRHV TP8 CKT: 1    53.0    53.0    53.0    53.0   100.7   100.7     0.0
SINGLE 3051 : 60705 LUXBGTP8 - 62846 FRHV TP8 CKT: 1    52.1    52.1    53.0    53.0    99.0    99.1    -0.1
SINGLE 3049 : 60705 LUXBGTP8 - 62620 WATKINS8 CKT: 1    51.4    51.4    53.0    53.0    97.6    97.6     0.0
SINGLE 3047 : 60703 WATKINS8 - 62620 WATKINS8 CKT: 1    51.2    51.2    53.0    53.0    97.3    97.4    -0.1
SINGLE 2001 : 62929 ALBERTV8 - 62949 BLKLKTP8 CKT: 1    51.2    51.2    53.0    53.0    97.0    97.1    -0.1
SINGLE 1767 : 62124 ZIMERMN8 - 62149 N ER TP8 CKT: 1    50.1    50.1    53.0    53.0    94.5    94.5     0.0
```

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  SINGLE 2014 : 62939 SILVERC8 - 62944 GOOSETP8 CKT: 1    49.6    49.6    53.0    53.0    94.3    94.3     0.0
  500         : ** MULTIPLE CONTINGENCY **               49.6    49.6    53.0    53.0    94.2    94.2     0.0
              : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
              : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1
  SINGLE 1366 : 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C    49.5    49.5    53.0    53.0    94.1    94.2    -0.1
  SINGLE 1069 : 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C    49.5    49.5    53.0    53.0    94.1    94.2    -0.1
  SINGLE 1408 : 60704 KIMBALL8 - 60761 SOUTHVN8 CKT: 1    49.4    49.4    53.0    53.0    93.9    94.0    -0.1
  SINGLE 1412 : 60712 ANNDALE8 - 60761 SOUTHVN8 CKT: 1    49.3    49.3    53.0    53.0    93.7    93.8    -0.1
  SINGLE 1080 : 60162 WAKEFLD7 - 60717 WAKEFLD8 CKT: 1    49.4    49.4    53.0    53.0    93.4    93.4     0.0
  SINGLE 2914 : 60142 BENTON 3 - 63045 BENTON 4 CKT: 1    48.9    48.9    53.0    53.0    92.8    92.8     0.0
  SINGLE 2915 : 60142 BENTON 3 - 63045 BENTON 4 CKT: 2    48.8    48.8    53.0    53.0    92.7    92.7     0.0
  SINGLE 1770 : 62126 PIPELIN8 - 62134 ELKR14S8 CKT: 1    48.9    48.9    53.0    53.0    92.6    92.6     0.0
  SINGLE 1382 : 60652 CROWRV 8 - 62943 VICTOR 8 CKT: 1    48.6   .....    53.0   .....    92.4   .....   *NEW*
  SINGLE 1771 : 62126 PIPELIN8 - 62135 STFRNCS8 CKT: 1    48.8    48.8    53.0    53.0    92.3    92.4    -0.1
  SINGLE 2921 : 60152 MNTCELO4 - 63045 BENTON 4 CKT: 1    48.5    48.5    53.0    53.0    92.0    92.0     0.0
  SINGLE 1731 : 62098 ANOKA  8 - 62134 ELKR14S8 CKT: 1    48.5    48.5    53.0    53.0    91.9    92.0    -0.1
  SINGLE 1766 : 62123 WOODCRT8 - 62132 PRKWOOD8 CKT: 1    48.4    48.4    53.0    53.0    91.5    91.6    -0.1
  BASE CASE   : **       BASE CASE      **               47.4    47.4    53.0    53.0    90.0    90.1    -0.1

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  84) 62985 HUTCHPK8 - 62986 HUTCHMN8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **               54.4    54.4    52.1    52.1   103.3   103.2     0.1
  SINGLE 3055 : 60717 WAKEFLD8 - 62846 FRHV TP8 CKT: 1    53.4    53.3    52.1    52.1   101.1   100.9     0.2
  SINGLE 2008 : 62934 HOWARDL8 - 62943 VICTOR 8 CKT: 1    53.3    53.1    52.1    52.1   101.0   100.7     0.3
  SINGLE 971  : 60112 FTRIDLY7 - 60938 FTRIDGL8 CKT: 1    53.2    53.2    52.1    52.1   100.9   100.7     0.2
  SINGLE 1121 : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1    53.2    53.0    52.1    52.1   100.8   100.4     0.4
  009   8     : ** MULTIPLE CONTINGENCY **               53.2    53.1    52.1    52.1   100.8   100.6     0.2
              : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
              : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
              : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
              : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
              : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
  810   C1    : ** MULTIPLE CONTINGENCY **               53.2    53.0    52.1    52.1   100.8   100.4     0.4
              : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1
              : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C
  SINGLE 1158 : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1    53.0    52.8    52.1    52.1   100.4   100.1     0.3
  SINGLE 3451 : 63314 BIGSTON4 - 63315 BIGSTN1G CKT: 1    52.9    52.8    52.1    52.1   100.2   100.1     0.1
  009   4     : ** MULTIPLE CONTINGENCY **               52.9    52.8    52.1    52.1   100.2   100.0     0.2
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
              : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
              : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
              : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
              : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
  CNC-DKN/SHC3: ** MULTIPLE CONTINGENCY **               52.8    52.7    52.1    52.1   100.0    99.8     0.2
              : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1
              : 60202 COON CK3 - 60272 MPLEGV23 CKT: 1
  SINGLE 3396 : 62981 MCLEOD 7 - 60898 GLENCOE  CKT: C    52.6    52.5    52.1    52.1    99.7    99.5     0.2
  SINGLE 2030 : 62986 HUTCHMN8 - 62987 HUTCHCP8 CKT: 1    52.4    52.3    52.1    52.1    99.3    99.1     0.2
  SINGLE 1906 : 62439 HUTCHTP8 - 62987 HUTCHCP8 CKT: 1    52.4    52.3    52.1    52.1    99.3    99.1     0.2
  SINGLE 1905 : 62438 LITCHTP8 - 62439 HUTCHTP8 CKT: 1    52.3    52.2    52.1    52.1    99.0    98.9     0.1
  SINGLE 1120 : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C    51.1    50.9    52.1    52.1    96.9    96.4     0.5
  SINGLE 3399 : 62986 HUTCHMN8 - 62603 HSSNJCT8 CKT: 1    49.4    49.4    52.1    52.1    93.6    93.5     0.1
  SINGLE 2028 : 62984 HUTCHPT8 - 62988 HTCHHTI8 CKT: 1    48.0    47.9    52.1    52.1    90.9    90.8     0.1
  SINGLE 3399 : 63041 COAL CR4 - 63001 COAL 42G CKT: 1   .....    53.4   .....    52.1   .....   101.1  *ELIM*

==================================================================================================================
  85) 63041 COAL CR4 - 63000 COAL 41G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 3401 : 63041 COAL CR4 - 63001 COAL 42G CKT: 1   558.0   558.0   566.0   566.0    98.6    98.6     0.0
```

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  SINGLE 2201 : 63369 JAMESTN3 - 66791 CENTER 3 CKT: 1   540.2   540.1   566.0   566.0    95.4    95.4     0.0
  SINGLE 2198 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1   539.5   539.3   566.0   566.0    95.3    95.3     0.0
  SINGLE 2197 : 63358 BUFFALO3 - 63369 JAMESTN3 CKT: 1   539.6   539.4   566.0   566.0    95.3    95.3     0.0
  SINGLE 2182 : 63290 HARVEY 4 - 63381 UNDERWD4 CKT: 1   539.0   539.0   566.0   566.0    95.2    95.2     0.0
  SINGLE 2378 : 66437 GRNDFKS4 - 66759 PICKERT4 CKT: 1   538.9   .....   566.0   .....    95.2   .....   *NEW*
  SINGLE 2390 : 66444 JAMESTN4 - 66759 PICKERT4 CKT: 1   538.9   538.9   566.0   566.0    95.2    95.2     0.0
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   538.7   538.6   566.0   566.0    95.2    95.2     0.0
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   539.0   538.9   566.0   566.0    95.2    95.2     0.0
  SINGLE 1024 : 60138 SOURIS 7 - 60139 MALLARD7 CKT: 1   538.6   538.6   566.0   566.0    95.2    95.2     0.0
  SINGLE 2045 : 63042 COAL TP4 - 63044 MCHENRY4 CKT: 1   538.7   538.7   566.0   566.0    95.2    95.2     0.0
  BASE CASE   : **       BASE CASE      **               537.5   537.5   566.0   566.0    95.0    95.0     0.0
  SINGLE 2049 : 63047 RAMSEY 4 - 63056 BALTA  4 CKT: 1   536.4   536.4   566.0   566.0    94.8    94.8     0.0
  SINGLE 2051 : 63047 RAMSEY 4 - 66755 PRAIRIE4 CKT: 1   535.9   535.9   566.0   566.0    94.7    94.7     0.0

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  86) 63041 COAL CR4 - 63001 COAL 42G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  SINGLE 3400 : 63041 COAL CR4 - 63000 COAL 41G CKT: 1   562.2   561.8   590.0   590.0    95.3    95.2     0.1
  SINGLE 2201 : 63369 JAMESTN3 - 66791 CENTER 3 CKT: 1   544.1   544.0   590.0   590.0    92.2    92.2     0.0
  SINGLE 2198 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1   543.5   543.3   590.0   590.0    92.1    92.1     0.0
  SINGLE 2197 : 63358 BUFFALO3 - 63369 JAMESTN3 CKT: 1   543.5   543.3   590.0   590.0    92.1    92.1     0.0
  SINGLE 2182 : 63290 HARVEY 4 - 63381 UNDERWD4 CKT: 1   542.9   542.9   590.0   590.0    92.0    92.0     0.0
  SINGLE 2378 : 66437 GRNDFKS4 - 66759 PICKERT4 CKT: 1   542.9   .....   590.0   .....    92.0   .....   *NEW*
  SINGLE 2390 : 66444 JAMESTN4 - 66759 PICKERT4 CKT: 1   542.9   542.8   590.0   590.0    92.0    92.0     0.0
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   542.7   542.6   590.0   590.0    92.0    92.0     0.0
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   542.9   542.8   590.0   590.0    92.0    92.0     0.0
  SINGLE 1024 : 60138 SOURIS 7 - 60139 MALLARD7 CKT: 1   542.6   542.6   590.0   590.0    92.0    92.0     0.0
  SINGLE 2045 : 63042 COAL TP4 - 63044 MCHENRY4 CKT: 1   542.7   542.6   590.0   590.0    92.0    92.0     0.0
  BASE CASE   : **       BASE CASE      **               541.5   541.5   590.0   590.0    91.8    91.8     0.0
  SINGLE 2049 : 63047 RAMSEY 4 - 63056 BALTA  4 CKT: 1   540.4   540.4   590.0   590.0    91.6    91.6     0.0
  SINGLE 2051 : 63047 RAMSEY 4 - 66755 PRAIRIE4 CKT: 1   539.9   539.8   590.0   590.0    91.5    91.5     0.0

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  87) 63221 BRANDN 7 - 67455 BRANDN 9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  BASE CASE   : **       BASE CASE      **                23.2    23.2    12.0    12.0   193.5   193.5     0.0

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  88) 63223 HOOT LK7 - 63123 HOOT LK9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  BASE CASE   : **       BASE CASE      **                27.5    27.5    27.0    27.0   101.7   101.7     0.0

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  89) 63223 HOOT LK7 - 63323 HOOTLK2G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **                71.0    71.0    60.0    60.0   118.3   118.3     0.0
  SINGLE 2076 : 63194 FERGSFLY - 63231 FERGSFL7 CKT: 1    69.4    69.0    60.0    60.0   115.7   115.0     0.7
  SINGLE 2077 : 63194 FERGSFLY - 63331 FERGSFL4 CKT: 1    69.4    69.0    60.0    60.0   115.7   115.0     0.7
  SINGLE 2107 : 63223 HOOT LK7 - 63231 FERGSFL7 CKT: 1    69.1    69.0    60.0    60.0   115.1   115.1     0.0

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  90) 63223 HOOT LK7 - 63324 HOOTLK3G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  BASE CASE   : **       BASE CASE      **                93.0    93.0    84.0    84.0   110.7   110.7     0.0
  SINGLE 2076 : 63194 FERGSFLY - 63231 FERGSFL7 CKT: 1    91.2    90.8    84.0    84.0   108.5   108.0     0.5
  SINGLE 2077 : 63194 FERGSFLY - 63331 FERGSFL4 CKT: 1    91.2    90.8    84.0    84.0   108.5   108.0     0.5
  SINGLE 2107 : 63223 HOOT LK7 - 63231 FERGSFL7 CKT: 1    90.8    90.8    84.0    84.0   108.1   108.1     0.0

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  91) 63314 BIGSTON4 - 63315 BIGSTN1G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   467.1   466.9   471.5   471.5    99.1    99.0     0.1
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   467.1   467.0   471.5   471.5    99.1    99.1     0.0
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SINGLE 2927	: 60160 SHERCO 3 - 60002 SHERC33G CKT: 1	463.0	462.6	471.5	471.5	98.2	98.1	0.1
SINGLE 2503	: 66530 WATERTN4 - 66550 GRANITF4 CKT: 1	462.6	462.3	471.5	471.5	98.1	98.0	0.1
SINGLE 2198	: 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1	461.5	461.2	471.5	471.5	97.9	97.8	0.1
SINGLE 2201	: 63369 JAMESTN3 - 66791 CENTER 3 CKT: 1	461.7	461.5	471.5	471.5	97.9	97.9	0.0
SINGLE 2926	: 60160 SHERCO 3 - 60001 SHERC32G CKT: 1	461.2	460.9	471.5	471.5	97.8	97.7	0.1
SINGLE 2079	: 63195 BIGSTONY - 63314 BIGSTON4 CKT: 1	461.3	461.1	471.5	471.5	97.8	97.8	0.0
SINGLE 2197	: 63358 BUFFALO3 - 63369 JAMESTN3 CKT: 1	461.0	460.7	471.5	471.5	97.8	97.7	0.1
SINGLE 2078	: 63195 BIGSTONY - 63214 BIGSTON7 CKT: 1	461.3	461.1	471.5	471.5	97.8	97.8	0.0
SINGLE 2925	: 60160 SHERCO 3 - 60000 SHERC31G CKT: 1	461.2	460.9	471.5	471.5	97.8	97.7	0.1
SINGLE 2920	: 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1	460.2	459.9	471.5	471.5	97.6	97.5	0.1
SINGLE 3434	: 63223 HOOT LK7 - 63324 HOOTLK3G CKT: 1	459.5	459.4	471.5	471.5	97.5	97.4	0.1
SINGLE 2099	: 63215 HIWY12 7 - 63216 ORTONVL7 CKT: 1	459.6	459.4	471.5	471.5	97.5	97.4	0.1
SINGLE 21	: 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1	459.6	459.2	471.5	471.5	97.5	97.4	0.1
SINGLE 2098	: 63214 BIGSTON7 - 63215 HIWY12 7 CKT: 1	459.8	459.7	471.5	471.5	97.5	97.5	0.0
SINGLE 2195	: 63329 WAHPETN4 - 66754 MAPLE R4 CKT: 1	459.1	458.9	471.5	471.5	97.4	97.3	0.1
675	: ** MULTIPLE CONTINGENCY **	459.3	459.1	471.5	471.5	97.4	97.4	0.0
	: 60142 BENTON 3 - 63045 BENTON 4 CKT: 1							
	: 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1							
	: 60142 BENTON 3 - 63045 BENTON 4 CKT: 2							
SINGLE 1034	: 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1	459.3	459.1	471.5	471.5	97.4	97.4	0.0
SINGLE 1085	: 60170 MARSHAL7 - 60171 LYON CO7 CKT: 1	459.2	459.0	471.5	471.5	97.4	97.4	0.0
SINGLE 2937	: 60186 AS KING3 - 60006 KING 31G CKT: 1	459.4	459.1	471.5	471.5	97.4	97.4	0.0
SINGLE 1375	: 60374 FIBROMN7 - 62001 BENSON 7 CKT: 1	458.8	458.4	471.5	471.5	97.3	97.2	0.1
SINGLE 1008	: 60130 SPLTRTA3 - 66537 WHITE 3 CKT: 1	458.8	458.7	471.5	471.5	97.3	97.3	0.0
SINGLE 1013	: 60133 SHEYNNE4 - 63336 AUDUBON4 CKT: 1	458.5	458.0	471.5	471.5	97.3	97.1	0.2
SINGLE 1014	: 60133 SHEYNNE4 - 66435 FARGO 4 CKT: 1	458.7	458.5	471.5	471.5	97.3	97.3	0.0
SINGLE 944	: 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1	458.6	458.3	471.5	471.5	97.3	97.2	0.1
SINGLE 3433	: 63223 HOOT LK7 - 63323 HOOTLK2G CKT: 1	458.7	458.6	471.5	471.5	97.3	97.3	0.0
SINGLE 1001	: 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1	458.8	458.7	471.5	471.5	97.3	97.3	0.0
SINGLE 2373	: 66435 FARGO 4 - 66553 MOORHED4 CKT: 1	458.6	458.4	471.5	471.5	97.3	97.2	0.1
SINGLE 1142	: 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1	458.6	458.4	471.5	471.5	97.3	97.2	0.1
SINGLE 2900	: 60105 PR ISLD3 - 60003 PR IS31G CKT: 1	458.7	458.5	471.5	471.5	97.3	97.2	0.1
SINGLE 2901	: 60105 PR ISLD3 - 60004 PR IS32G CKT: 1	458.7	458.5	471.5	471.5	97.3	97.2	0.1
SINGLE 1293	: 60287 NOBLES 7 - 60369 FENTON 7 CKT: C	458.5	458.3	471.5	471.5	97.2	97.2	0.0
705 1	: ** MULTIPLE CONTINGENCY **	458.1	.....	471.5	.....	97.2	.....	*NEW*
	: 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1							
	: 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1							
	: 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 1							
SINGLE 1373	: 60371 ERIE RD7 - 66508 S3 7 CKT: 1	458.2	.....	471.5	.....	97.2	.....	*NEW*
SINGLE 2509	: 66553 MOORHED4 - 66554 MORRIS 4 CKT: 1	458.2	.....	471.5	.....	97.2	.....	*NEW*
BLL-EDP/PKL3	: ** MULTIPLE CONTINGENCY **	458.1	.....	471.5	.....	97.2	.....	*NEW*
	: 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1							
	: 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1							
BASE CASE	: ** BASE CASE **	457.1	457.1	471.5	471.5	96.9	97.0	-0.1
SINGLE 3401	: 63041 COAL CR4 - 63001 COAL 42G CKT: 1	456.1	456.1	471.5	471.5	96.7	96.7	0.0
SINGLE 3405	: 63052 INMAN 4 - 61611 WINGRIV4 CKT: 1	455.8	455.6	471.5	471.5	96.7	96.6	0.1
SINGLE 3430	: 63216 ORTONVL7 - 63116 ORTONVL9 CKT: 1	455.9	455.7	471.5	471.5	96.7	96.7	0.0
SINGLE 2055	: 63051 HENNING4 - 63331 FERGSFL4 CKT: 1	455.9	455.8	471.5	471.5	96.7	96.7	0.0
SINGLE 2189	: 63314 BIGSTON4 - 63325 BROWNSV4 CKT: 1	456.1	456.0	471.5	471.5	96.7	96.7	0.0
SINGLE 3542	: 66537 WHITE 3 - 6653 GI0108 CKT: 1	456.0	456.0	471.5	471.5	96.7	96.7	0.0
SINGLE 2194	: 63329 WAHPETN4 - 63331 FERGSFL4 CKT: 1	456.0	455.9	471.5	471.5	96.7	96.7	0.0
SINGLE 2665	: 67326 ELLENDL4 - 67327 ELLENDL7 CKT: 1	455.9	455.9	471.5	471.5	96.7	96.7	0.0
SINGLE 2702	: 6001 YANKEE 7 - 6002 YANKGEN CKT: 1	456.0	456.0	471.5	471.5	96.7	96.7	0.0
SINGLE 1710	: 62003 JOHNJCT7 - 63216 ORTONVL7 CKT: 1	456.0	455.9	471.5	471.5	96.7	96.7	0.0
SINGLE 3395	: 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1	455.9	.....	471.5	.....	96.7	.....	*NEW*
SINGLE 3400	: 63041 COAL CR4 - 63000 COAL 41G CKT: 1	456.1	456.1	471.5	471.5	96.7	96.7	0.0
SINGLE 3592	: 67101 ANTELOP3 - 67103 ANTEL31G CKT: 1	455.7	455.7	471.5	471.5	96.6	96.7	-0.1
SINGLE 3593	: 67101 ANTELOP3 - 67107 ANTEL32G CKT: 1	455.7	455.7	471.5	471.5	96.6	96.7	-0.1
SINGLE 2501	: 66529 WATERTN3 - 66537 WHITE 3 CKT: 1	455.6	455.6	471.5	471.5	96.6	96.6	0.0
SINGLE 2054	: 63051 HENNING4 - 63052 INMAN 4 CKT: 1	455.6	455.4	471.5	471.5	96.6	96.6	0.0
SINGLE 2192	: 63327 HANKSON4 - 63329 WAHPETN4 CKT: 1	454.8	454.7	471.5	471.5	96.5	96.4	0.1
SINGLE 2449	: 66503 BLAIR 4 - 66550 GRANITF4 CKT: 1	455.1	455.1	471.5	471.5	96.5	96.5	0.0
SINGLE 2238	: 66236 WATERT1T - 66529 WATERTN3 CKT: 1	454.6	454.6	471.5	471.5	96.4	96.4	0.0

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  WATERT1T    : ** MULTIPLE CONTINGENCY **                454.6   454.6   471.5   471.5    96.4    96.4     0.0
              : 66236 WATERT1T - 66237 WATERT19 CKT: 1
              : 66236 WATERT1T - 66529 WATERTN3 CKT: 1
              : 66236 WATERT1T - 66530 WATERTN4 CKT: 1
  SINGLE 2239 : 66236 WATERT1T - 66530 WATERTN4 CKT: 1   454.6   454.6   471.5   471.5    96.4    96.4     0.0
  SINGLE 2191 : 63325 BROWNSV4 - 63327 HANKSON4 CKT: 1   454.7   454.6   471.5   471.5    96.4    96.4     0.0
  SINGLE 2190 : 63314 BIGSTON4 - 66503 BLAIR  4 CKT: 1   454.6   454.5   471.5   471.5    96.4    96.4     0.0
  SINGLE 1709 : 62003 JOHNJCT7 - 66555 MORRIS 7 CKT: 1   .....   456.1   .....   471.5   .....    96.7  *ELIM*

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  92) 63875 RAUN   3 - 63883 NEAL  3G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  SINGLE 956  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   .....   513.6   .....   560.0   .....    91.7  *ELIM*

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  93) 63877 NEAL N 5 - 63881 NEAL  1G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  SINGLE 3556 : 66566 SIOUXCY5 - 63889 PLYMOTH5 CKT: 1   146.1   145.8   150.0   150.0    97.4    97.2     0.2
  SINGLE 133  : 34059 BOONE  7 - 34076 BNE JCT7 CKT: 1   144.2   143.9   150.0   150.0    96.1    95.9     0.2
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   144.0   143.4   150.0   150.0    96.0    95.6     0.4
  SINGLE 2522 : 66565 SIOUXCY4 - 66567 DENISON4 CKT: 1   143.7   143.4   150.0   150.0    95.8    95.6     0.2
  SINGLE 3554 : 66564 SIOUXCY3 - 63875 RAUN   3 CKT: 1   143.7   143.5   150.0   150.0    95.8    95.6     0.2
  SINGLE 3561 : 66581 SPENCER8 - 63710 WISDOM 8 CKT: 1   143.5   143.1   150.0   150.0    95.7    95.4     0.3
  SINGLE 9    :  6450 PRIMGHAR - 66566 SIOUXCY5 CKT: 1   143.6   .....   150.0   .....    95.7   .....   *NEW*
  SINGLE 3523 : 66506 FTTHOMP3 - 66571 GR ISLD3 CKT: 1   143.4   143.0   150.0   150.0    95.6    95.4     0.2
  SINGLE 3524 : 66509 FTRANDL4 - 64783 COLMBUS4 CKT: 1   143.4   143.1   150.0   150.0    95.6    95.4     0.2
  SINGLE 2531 : 66580 SPENCR 8 - 66581 SPENCER8 CKT: 1   143.4   142.9   150.0   150.0    95.6    95.3     0.3
  SINGLE 2472 : 66509 FTRANDL4 - 66565 SIOUXCY4 CKT: 1   143.3   143.0   150.0   150.0    95.5    95.3     0.2
  SINGLE 2517 : 66562 EAGLE  4 - 66578 PAHOJA 4 CKT: 1   143.3   143.0   150.0   150.0    95.5    95.4     0.1
  BASE CASE   : **       BASE CASE      **               142.2   141.9   150.0   150.0    94.8    94.6     0.2
  SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1   141.1   .....   150.0   .....    94.1   .....   *NEW*
  SINGLE 247  : 34137 TRIBOJI5 - 66563 SPENCER5 CKT: 1   140.9   140.8   150.0   150.0    93.9    93.9     0.0
  SINGLE 2518 : 66563 SPENCER5 - 66566 SIOUXCY5 CKT: 1   .....   143.1   .....   150.0   .....    95.4  *ELIM*

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  94) 64062 DMOINES5 - 64631 DMSMID18 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  SINGLE 2823 : 34189 OTTUMWA5 - 34146 OTTUMW1G CKT: 1    87.0    86.6    80.0    80.0   108.8   108.3     0.5
  SINGLE 2812 : 34174 EICTAP 5 - 64096 BEACON 5 CKT: 1    84.3    84.0    80.0    80.0   105.4   105.0     0.4
  SINGLE 354  : 34211 NEWTON 5 - 34561 NEWTON Y CKT: 1    83.0    82.6    80.0    80.0   103.7   103.2     0.5
  SINGLE 355  : 34212 NEWTON 8 - 34561 NEWTON Y CKT: 1    83.0    82.6    80.0    80.0   103.7   103.2     0.5
  SINGLE 2824 : 34191 REASNOR5 - 64062 DMOINES5 CKT: 1    82.6    82.1    80.0    80.0   103.3   102.6     0.7
  SINGLE 2827 : 34202 LUCAS  8 - 64100 KNXVL  8 CKT: 1    82.2    81.8    80.0    80.0   102.7   102.3     0.4
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    81.4    81.0    80.0    80.0   101.7   101.2     0.5
  SINGLE 2831 : 34212 NEWTON 8 - 64156 COLFAX 8 CKT: 1    80.9    80.5    80.0    80.0   101.1   100.6     0.5
  SINGLE 300  : 34185 POWESHK5 - 34191 REASNOR5 CKT: 1    80.8    80.3    80.0    80.0   100.9   100.4     0.5
  SINGLE 709  : 34606 GRNL CT8 - 34607 GRNCTTP8 CKT: 1    80.7    80.3    80.0    80.0   100.9   100.4     0.5
  SINGLE 327  : 34202 LUCAS  8 - 34559 LUCAS  Y CKT: 1    80.6    80.2    80.0    80.0   100.7   100.3     0.4
  SINGLE 332  : 34204 JASPER 8 - 34549 JASPER Y CKT: 1    80.5    80.1    80.0    80.0   100.7   100.2     0.5
  SINGLE 2816 : 34179 JASPER 5 - 64189 NEANKNY5 CKT: 1    80.6    80.2    80.0    80.0   100.7   100.2     0.5
  SINGLE 333  : 34204 JASPER 8 - 34574 AURORA 8 CKT: 1    80.5    80.1    80.0    80.0   100.7   100.2     0.5
  SINGLE 286  : 34179 JASPER 5 - 34549 JASPER Y CKT: 1    80.5    80.1    80.0    80.0   100.7   100.2     0.5
  SINGLE 310  : 34189 OTTUMWA5 - 34192 LUCAS  5 CKT: 1    80.6    80.2    80.0    80.0   100.7   100.3     0.4
  SINGLE 314  : 34192 LUCAS  5 - 34559 LUCAS  Y CKT: 1    80.6    80.2    80.0    80.0   100.7   100.3     0.4
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    80.5    80.1    80.0    80.0   100.6   100.1     0.5
  BASE CASE   : **       BASE CASE      **                79.0    78.6    80.0    80.0    98.8    98.3     0.5
  SINGLE 3625 : 67316 COYOTE 3 - 67315 COYOTE1G CKT: 1    78.0    77.6    80.0    80.0    97.5    97.0     0.5
  SINGLE 2920 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1    78.0    77.6    80.0    80.0    97.4    97.0     0.4
  SINGLE 3593 : 67101 ANTELOP3 - 67107 ANTEL32G CKT: 1    77.8    77.4    80.0    80.0    97.3    96.8     0.5
  SINGLE 3592 : 67101 ANTELOP3 - 67103 ANTEL31G CKT: 1    77.8    77.4    80.0    80.0    97.3    96.8     0.5
  SINGLE 2925 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1    77.7    77.4    80.0    80.0    97.2    96.7     0.5
  SINGLE 2926 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1    77.7    77.3    80.0    80.0    97.2    96.7     0.5
  SINGLE 3451 : 63314 BIGSTON4 - 63315 BIGSTN1G CKT: 1    77.7    77.4    80.0    80.0    97.2    96.7     0.5
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  SINGLE 3400 : 63041 COAL CR4 - 63000 COAL 41G CKT: 1    77.5    77.2    80.0    80.0    96.9    96.4     0.5
  SINGLE 3401 : 63041 COAL CR4 - 63001 COAL 42G CKT: 1    77.5    77.1    80.0    80.0    96.9    96.4     0.5
  SINGLE 173  : 34084 PARNEL 5 - 34185 POWESHK5 CKT: 1    77.5    77.1    80.0    80.0    96.8    96.4     0.4
  SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    77.5    77.1    80.0    80.0    96.8    96.3     0.5
  SINGLE 3599 : 67131 LARAMIE3 - 67118 LARAM31G CKT: 1    77.0    76.6    80.0    80.0    96.2    95.7     0.5

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  95) 64062 DMOINES5 - 64632 DMSMID28 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  SINGLE 2823 : 34189 OTTUMWA5 - 34146 OTTUMW1G CKT: 1    95.0    94.6    90.0    90.0   105.5   105.1     0.4
  SINGLE 2812 : 34174 EICTAP 5 - 64096 BEACON 5 CKT: 1    92.0    91.7    90.0    90.0   102.2   101.9     0.3
  SINGLE 354  : 34211 NEWTON 5 - 34561 NEWTON Y CKT: 1    90.6    90.1    90.0    90.0   100.6   100.2     0.4
  SINGLE 355  : 34212 NEWTON 8 - 34561 NEWTON Y CKT: 1    90.6    90.1    90.0    90.0   100.6   100.2     0.4
  SINGLE 2824 : 34191 REASNOR5 - 64062 DMOINES5 CKT: 1    90.2    89.6    90.0    90.0   100.2    99.6     0.6
  SINGLE 2827 : 34202 LUCAS  8 - 64100 KNXVL  8 CKT: 1    89.7    89.3    90.0    90.0    99.7    99.2     0.5
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    88.8    88.4    90.0    90.0    98.7    98.2     0.5
  SINGLE 2831 : 34212 NEWTON 8 - 64156 COLFAX 8 CKT: 1    88.3    87.9    90.0    90.0    98.1    97.7     0.4
  SINGLE 300  : 34185 POWESHK5 - 34191 REASNOR5 CKT: 1    88.1    87.6    90.0    90.0    97.9    97.4     0.5
  SINGLE 709  : 34606 GRNL CT8 - 34607 GRNCTTP8 CKT: 1    88.1    87.7    90.0    90.0    97.9    97.4     0.5
  SINGLE 327  : 34202 LUCAS  8 - 34559 LUCAS  Y CKT: 1    88.0    87.6    90.0    90.0    97.7    97.3     0.4
  SINGLE 332  : 34204 JASPER 8 - 34549 JASPER Y CKT: 1    87.9    87.5    90.0    90.0    97.7    97.2     0.5
  SINGLE 2816 : 34179 JASPER 5 - 64189 NEANKNY5 CKT: 1    88.0    87.5    90.0    90.0    97.7    97.2     0.5
  SINGLE 333  : 34204 JASPER 8 - 34574 AURORA 8 CKT: 1    87.9    87.5    90.0    90.0    97.7    97.2     0.5
  SINGLE 286  : 34179 JASPER 5 - 34549 JASPER Y CKT: 1    87.9    87.5    90.0    90.0    97.7    97.2     0.5
  SINGLE 310  : 34189 OTTUMWA5 - 34192 LUCAS  5 CKT: 1    88.0    87.6    90.0    90.0    97.7    97.3     0.4
  SINGLE 314  : 34192 LUCAS  5 - 34559 LUCAS  Y CKT: 1    88.0    87.6    90.0    90.0    97.7    97.3     0.4
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    87.8    87.4    90.0    90.0    97.6    97.1     0.5
  BASE CASE   : **       BASE CASE      **               86.2    85.8    90.0    90.0    95.8    95.4     0.4
  SINGLE 2772 : 34084 PARNEL 5 - 64351 HILLS  5 CKT: 1    85.2   .....    90.0   .....    94.7   .....   *NEW*
  SINGLE 2937 : 60186 AS KING3 - 60006 KING 31G CKT: 1    85.2    84.8    90.0    90.0    94.7    94.2     0.5
  SINGLE 292  : 34182 WAPELLO5 - 34183 JEFF   5 CKT: 1    85.2    84.7    90.0    90.0    94.6    94.2     0.4
  SINGLE 3625 : 67316 COYOTE 3 - 67315 COYOTE1G CKT: 1    85.1    84.7    90.0    90.0    94.6    94.1     0.5
  SINGLE 2920 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1    85.1    84.7    90.0    90.0    94.5    94.1     0.4
  SINGLE 3593 : 67101 ANTELOP3 - 67107 ANTEL32G CKT: 1    84.9    84.5    90.0    90.0    94.4    93.9     0.5
  SINGLE 3592 : 67101 ANTELOP3 - 67103 ANTEL31G CKT: 1    84.9    84.5    90.0    90.0    94.4    93.9     0.5
  SINGLE 2926 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1    84.9    84.4    90.0    90.0    94.3    93.8     0.5
  SINGLE 2925 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1    84.9    84.4    90.0    90.0    94.3    93.8     0.5
  SINGLE 3451 : 63314 BIGSTON4 - 63315 BIGSTN1G CKT: 1    84.9    84.4    90.0    90.0    94.3    93.8     0.5
  SINGLE 3400 : 63041 COAL CR4 - 63000 COAL 41G CKT: 1    84.6    84.2    90.0    90.0    94.0    93.6     0.4
  SINGLE 3401 : 63041 COAL CR4 - 63001 COAL 42G CKT: 1    84.6    84.2    90.0    90.0    94.0    93.6     0.4
  SINGLE 173  : 34084 PARNEL 5 - 34185 POWESHK5 CKT: 1    84.6    84.2    90.0    90.0    94.0    93.6     0.4
  SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    84.5    84.1    90.0    90.0    93.9    93.5     0.4
  SINGLE 3599 : 67131 LARAMIE3 - 67118 LARAM31G CKT: 1    84.0    83.6    90.0    90.0    93.3    92.9     0.4

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  96) 64203 NW FTDG5 - 64230 POMEROY5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   182.3   175.4   173.0   173.0   104.8   100.6     4.2
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   173.5   166.5   173.0   173.0    99.5    95.5     4.0
  SINGLE 3552 : 66563 SPENCER5 - 63713 OSGOOD 5 CKT: 1   173.1   165.2   173.0   173.0    99.1    94.5     4.6
  SINGLE 2747 : 34054 GR JCT 5 - 63771 DRAGER 5 CKT: 1   168.4   161.5   173.0   173.0    96.3    92.3     4.0
  SINGLE 21   : 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1   166.5   159.7   173.0   173.0    95.4    91.4     4.0
  SINGLE 32   : 34009 WINBAGO5 - 61932 RUTLAND5 CKT: 1   164.9   158.2   173.0   173.0    94.5    90.5     4.0
  SINGLE 28   : 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1   163.7   .....   173.0   .....    93.7   .....   *NEW*
  SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1   163.1   .....   173.0   .....    93.4   .....   *NEW*
  LAKF-FOX DBL: ** MULTIPLE CONTINGENCY **               162.7   .....   173.0   .....    93.2   .....   *NEW*
              : 34007 LAKEFLD5 - 34008 FOX LK 5 CKT: 1
              : 34007 LAKEFLD5 - 34008 FOX LK 5 CKT: 2
  SINGLE 3555 : 66565 SIOUXCY4 - 64994 TWIN CH4 CKT: 1   162.3   .....   173.0   .....    92.9   .....   *NEW*
  SINGLE 3523 : 66506 FTTHOMP3 - 66571 GR ISLD3 CKT: 1   162.0   .....   173.0   .....    92.8   .....   *NEW*
  SINGLE 3565 : 66593 J4IDAGR8 - 63893 LT SX  8 CKT: 1   162.0   .....   173.0   .....    92.8   .....   *NEW*
  ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **               162.0   .....   173.0   .....    92.8   .....   *NEW*
              : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
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            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
SINGLE 2720 : 34016 EMERY  5 - 34912 EMERYST1 CKT: 1   162.3   .....   173.0   .....    92.8   .....   *NEW*
050    2    : ** MULTIPLE CONTINGENCY **               161.9   .....   173.0   .....    92.7   .....   *NEW*
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
050    1    : ** MULTIPLE CONTINGENCY **               161.9   .....   173.0   .....    92.7   .....   *NEW*
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
            : 39901 COC DPC  - 38342 COC 69   CKT: 1
            : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
SINGLE 9    :  6450 PRIMGHAR - 66566 SIOUXCY5 CKT: 1   161.9   .....   173.0   .....    92.6   .....   *NEW*
SINGLE 2823 : 34189 OTTUMWA5 - 34146 OTTUMW1G CKT: 1   161.5   .....   173.0   .....    92.5   .....   *NEW*
SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   161.4   .....   173.0   .....    92.4   .....   *NEW*
SINGLE 33   : 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1   161.5   .....   173.0   .....    92.4   .....   *NEW*
SINGLE 120  : 34054 GR JCT 5 - 34058 PERRY  5 CKT: 1   161.6   .....   173.0   .....    92.4   .....   *NEW*
SINGLE 109  : 34047 ANTA TP5 - 66561 DENISON5 CKT: 1   161.1   .....   173.0   .....    92.3   .....   *NEW*
SINGLE 3553 : 66563 SPENCER5 - 63906 BVISTA 5 CKT: 1   161.2   158.2   173.0   173.0    92.3    90.5     1.8
SINGLE 2718 : 34016 EMERY  5 - 34910 EMERYGT1 CKT: 1   161.1   .....   173.0   .....    92.2   .....   *NEW*
SINGLE 2719 : 34016 EMERY  5 - 34911 EMERYGT2 CKT: 1   161.1   .....   173.0   .....    92.2   .....   *NEW*
SINGLE 992  : 60122 LAWRENC7 - 60834 LAWRENC8 CKT: 1   161.1   .....   173.0   .....    92.2   .....   *NEW*
SINGLE 2515 : 66561 DENISON5 - 66567 DENISON4 CKT: 1   161.1   .....   173.0   .....    92.2   .....   *NEW*
SINGLE 2777 : 34091 ARNOLD 5 - 34090 ARNOLD1G CKT: 1   161.0   .....   173.0   .....    92.2   .....   *NEW*
SINGLE 122  : 34054 GR JCT 5 - 34529 GRJCT5Y  CKT: 1   160.9   .....   173.0   .....    92.1   .....   *NEW*
050    3    : ** MULTIPLE CONTINGENCY **               160.9   .....   173.0   .....    92.1   .....   *NEW*
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 39901 COC DPC  - 38342 COC 69   CKT: 1
            : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
SINGLE 157  : 34073 GR JCT 7 - 34529 GRJCT5Y  CKT: 1   160.9   .....   173.0   .....    92.1   .....   *NEW*
SINGLE 132  : 34059 BOONE  7 - 34073 GR JCT 7 CKT: 1   160.9   .....   173.0   .....    92.0   .....   *NEW*
SINGLE 2992 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1   160.8   .....   173.0   .....    92.0   .....   *NEW*
SINGLE 24   : 34007 LAKEFLD5 - 34137 TRIBOJI5 CKT: 1   160.8   .....   173.0   .....    92.0   .....   *NEW*
825         : ** MULTIPLE CONTINGENCY **               160.8   .....   173.0   .....    92.0   .....   *NEW*
            : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
            : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
            : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1
SINGLE 2501 : 66529 WATERTN3 - 66537 WHITE  3 CKT: 1   160.8   .....   173.0   .....    92.0   .....   *NEW*
X0897-089801: ** MULTIPLE CONTINGENCY **               160.5   .....   173.0   .....    91.9   .....   *NEW*
            : 60215 HYLNDLK7 - 60193 BLUE LK7 CKT: 1
            : 60215 HYLNDLK7 - 60261 DEANLAK7 CKT: 1
            : 60261 DEANLAK7 - 60244 SCOTTCO7 CKT: 1
SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1   160.5   .....   173.0   .....    91.9   .....   *NEW*
535       1 : ** MULTIPLE CONTINGENCY **               160.4   .....   173.0   .....    91.8   .....   *NEW*
            : 60134 SHEYNNE7 - 60135 CASS CO7 CKT: 1
            : 66761 MODEROW7 - 60134 SHEYNNE7 CKT: 1
            : 66761 MODEROW7 - 60135 CASS CO7 CKT: 1
            : 60135 CASS CO7 - 60137 REDRIVR7 CKT: 1
795         : ** MULTIPLE CONTINGENCY **               160.3   .....   173.0   .....    91.8   .....   *NEW*
            : 66550 GRANITF4 - 60150 MNVLTAP4 CKT: 1
            : 60148 MINVALY7 - 60149 MINVALT4 CKT: C
            : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1
            : 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1
            : 63054 PANTHER4 - 60742 PANTHER8 CKT: 1
SINGLE 1493 : 60834 LAWRENC8 - 60863 SF M2 T8 CKT: 1   160.4   .....   173.0   .....    91.8   .....   *NEW*
SINGLE 1276 : 60265 LOON TP7 - 60830 EASTWD18 CKT: P   160.5   .....   173.0   .....    91.8   .....   *NEW*
SINGLE 2919 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1   160.2   .....   173.0   .....    91.7   .....   *NEW*
MOL-RIV/CNC7: ** MULTIPLE CONTINGENCY **               160.3   .....   173.0   .....    91.7   .....   *NEW*
            : 60229 MOORELK7 - 60203 COON CK7 CKT: 1
            : 60229 MOORELK7 - 60240 RIVRSID7 CKT: 1
SINGLE 2721 : 34016 EMERY  5 - 63774 SHEFFLD5 CKT: 1   160.2   .....   173.0   .....    91.7   .....   *NEW*
SINGLE 1508 : 60851 SX FLS 8 - 60863 SF M2 T8 CKT: 1   160.1   .....   173.0   .....    91.6   .....   *NEW*
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SINGLE 1362 : 60336 NSSJCT 7 - 60337 NSSTAP 7 CKT: 1   160.0   .....   173.0   .....    91.6   .....   *NEW*
SINGLE 1363 : 60337 NSSTAP 7 - 60338 NSSTL  7 CKT: 1   160.0   .....   173.0   .....    91.6   .....   *NEW*
SINGLE 1237 : 60238 REDROCK7 - 60336 NSSJCT 7 CKT: 1   160.0   .....   173.0   .....    91.6   .....   *NEW*
785         : ** MULTIPLE CONTINGENCY **               160.0   .....   173.0   .....    91.6   .....   *NEW*
            : 60129 SPLT RK7 - 60128 SPLT RK5 CKT: 1
            : 60128 SPLT RK5 -  6012 G253INT  CKT: 1
            :  6012 G253INT  - 34003 MAGNLIA5 CKT: 1
            : 34003 MAGNLIA5 - 34004 ELK    5 CKT: 1
            : 34004 ELK    5 - 34005 HRN LK 5 CKT: 1
            : 34005 HRN LK 5 - 34225 HERONLK8 CKT: 1
SINGLE 3395 : 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1   160.1   .....   173.0   .....    91.6   .....   *NEW*
SINGLE 2762 : 34066 M-TOWN 7 - 34088 M-TOWN3G CKT: 1   160.1   .....   173.0   .....    91.6   .....   *NEW*
SINGLE 3524 : 66509 FTRANDL4 - 64783 COLMBUS4 CKT: 1   160.0   .....   173.0   .....    91.6   .....   *NEW*
SINGLE 135  : 34060 WNTRST 5 - 66560 CRESTON5 CKT: 1   159.9   .....   173.0   .....    91.5   .....   *NEW*
SINGLE 1043 : 60146 GRANCTY7 - 60161 STREGIS7 CKT: 1   159.9   .....   173.0   .....    91.5   .....   *NEW*
SINGLE 952  : 60107 W FARIB7 - 60265 LOON TP7 CKT: C   159.9   .....   173.0   .....    91.5   .....   *NEW*
CNC-KOL/TER3: ** MULTIPLE CONTINGENCY **               159.9   .....   173.0   .....    91.5   .....   *NEW*
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
SINGLE 2238 : 66236 WATERT1T - 66529 WATERTN3 CKT: 1   160.0   .....   173.0   .....    91.5   .....   *NEW*
SINGLE 2239 : 66236 WATERT1T - 66530 WATERTN4 CKT: 1   160.0   .....   173.0   .....    91.5   .....   *NEW*
RRK-BCK/MAX7: ** MULTIPLE CONTINGENCY **               160.0   .....   173.0   .....    91.5   .....   *NEW*
            : 60238 REDROCK7 - 60266 BATTCRK7 CKT: P
            : 60238 REDROCK7 - 60336 NSSJCT 7 CKT: 1
SINGLE 2897 : 60102 ADAMS  3 - 63032 PL VLLY3 CKT: 1   159.9   .....   173.0   .....    91.5   .....   *NEW*
WATERT1T    : ** MULTIPLE CONTINGENCY **               160.0   .....   173.0   .....    91.5   .....   *NEW*
            : 66236 WATERT1T - 66237 WATERT19 CKT: 1
            : 66236 WATERT1T - 66529 WATERTN3 CKT: 1
            : 66236 WATERT1T - 66530 WATERTN4 CKT: 1
BASE CASE   : **       BASE CASE      **               158.8   .....   173.0   .....    90.9   .....   *NEW*
SINGLE 160  : 34075 ELDORA 7 - 34077 IA FALS7 CKT: 1   157.8   .....   173.0   .....    90.3   .....   *NEW*
SINGLE 137  : 34061 BNE JCT5 - 34076 BNE JCT7 CKT: 2   157.6   .....   173.0   .....    90.2   .....   *NEW*
SINGLE 3538 : 66520 OAHE   7 - 66559 OAHE  1G CKT: 1   157.6   .....   173.0   .....    90.2   .....   *NEW*
SINGLE 1130 : 60193 BLUE LK7 - 61476 BLL TR5Y CKT: 5   157.7   .....   173.0   .....    90.2   .....   *NEW*
SINGLE 2950 : 60214 HIBRDGE7 - 60009 HIBRD75G CKT: 1   157.7   .....   173.0   .....    90.2   .....   *NEW*
SINGLE 1131 : 60193 BLUE LK7 - 61477 BLL TR6Y CKT: 6   157.6   .....   173.0   .....    90.1   .....   *NEW*
SINGLE 3434 : 63223 HOOT LK7 - 63324 HOOTLK3G CKT: 1   157.5   .....   173.0   .....    90.1   .....   *NEW*
PRI-BLL/RRK3: ** MULTIPLE CONTINGENCY **               157.4   .....   173.0   .....    90.1   .....   *NEW*
            : 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1
            : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 1
SINGLE 2940 : 60190 BLK DOG7 - 60012 BLK D76G CKT: 1   157.5   .....   173.0   .....    90.1   .....   *NEW*
SINGLE 3577 : 66752 DRAYTON4 - 67557 LETELER4 CKT: 1   157.6   .....   173.0   .....    90.1   .....   *NEW*
SINGLE 2527 : 66573 STEGALL4 - 67206 STGXFMR4 CKT: 1   157.4   .....   173.0   .....    90.0   .....   *NEW*
SINGLE 2622 : 67135 STEGALL3 - 67207 STEGALTY CKT: 1   157.4   .....   173.0   .....    90.0   .....   *NEW*
SINGLE 2941 : 60200 BLK DG27 - 60013 BLK D73G CKT: 1   157.4   .....   173.0   .....    90.0   .....   *NEW*
SINGLE 2639 : 67206 STGXFMR4 - 67207 STEGALTY CKT: 1   157.4   .....   173.0   .....    90.0   .....   *NEW*
SINGLE 1202 : 60218 INVRHLS7 - 61478 INV TR1Y CKT: 1   157.5   .....   173.0   .....    90.0   .....   *NEW*

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 97) 64239 FRANKLN5 - 64285 BUTLER 5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 2722 : 34016 EMERY  5 - 64252 FLOYD  5 CKT: 1   263.8   260.2   181.0   181.0   146.0   144.0     2.0
SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   241.0   .....   181.0   .....   133.2   .....   *NEW*
SINGLE 46   : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1   236.3   232.9   181.0   181.0   130.3   128.5     1.8
SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   235.2   232.0   181.0   181.0   129.8   128.0     1.8
SINGLE 155  : 34072 FRNKLIN7 - 34077 IA FALS7 CKT: 1   235.7   232.3   181.0   181.0   129.8   127.9     1.9
SINGLE 156  : 34072 FRNKLIN7 - 34571 FRNKLN_Y CKT: 1   235.7   232.3   181.0   181.0   129.8   127.8     2.0
SINGLE 2863 : 34571 FRNKLN_Y - 64239 FRANKLN5 CKT: 1   235.7   232.3   181.0   181.0   129.8   127.8     2.0
SINGLE 163  : 34079 TRAER  5 - 34087 DYSART 5 CKT: 1   230.8   227.5   181.0   181.0   127.1   125.2     1.9
SINGLE 2775 : 34087 DYSART 5 - 64269 WASHBRN5 CKT: 1   230.2   227.6   181.0   181.0   127.0   125.4     1.6
SINGLE 2777 : 34091 ARNOLD 5 - 34090 ARNOLD1G CKT: 1   229.8   226.8   181.0   181.0   126.7   125.0     1.7
SINGLE 160  : 34075 ELDORA 7 - 34077 IA FALS7 CKT: 1   228.9   225.7   181.0   181.0   126.2   124.4     1.8
SINGLE 151  : 34068 M-TOWN 5 - 34079 TRAER  5 CKT: 1   228.1   224.9   181.0   181.0   125.7   123.8     1.9
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SINGLE 42	: 34014 ADAMS 5	- 34015 LIME CK5	CKT: 1	227.6	224.5	181.0	181.0	125.4	123.6	1.8
SINGLE 161	: 34075 ELDORA 7	- 34169 WELSBGT7	CKT: 1	226.3	223.1	181.0	181.0	124.8	123.0	1.8
SINGLE 21	: 34006 LAKEFLD3	- 60331 LKFLDXL3	CKT: 1	226.3	223.0	181.0	181.0	124.7	122.8	1.9
SINGLE 56	: 34018 HAZLTON3	- 60102 ADAMS 3	CKT: 1	226.2	222.3	181.0	181.0	124.6	122.4	2.2
SINGLE 2757	: 34061 BNE JCT5	- 64205 FT.DODG5	CKT: 1	224.6	221.5	181.0	181.0	123.7	121.8	1.9
SINGLE 35	: 34010 HAYWARD5	- 34015 LIME CK5	CKT: 1	223.8	220.6	181.0	181.0	123.2	121.4	1.8
SINGLE 54	: 34018 HAZLTON3	- 34020 HAZL S 5	CKT: 2	223.5	220.5	181.0	181.0	123.1	121.4	1.7
SINGLE 2733	: 34036 ROCK CK3	- 36382 QUAD ;	CKT: 1	222.7	219.6	181.0	181.0	122.6	120.9	1.7
SINGLE 2726	: 34021 LANSINGW	- 34024 LANS5 4G	CKT: 1	222.4	219.4	181.0	181.0	122.5	120.7	1.8
SINGLE 55	: 34018 HAZLTON3	- 34093 ARNOLD 3	CKT: 1	222.0	219.5	181.0	181.0	122.2	120.8	1.4
SINGLE 2785	: 34099 PRAR CK7	- 34098 PR CRK4G	CKT: 1	221.7	218.7	181.0	181.0	122.1	120.4	1.7
SINGLE 1116	: 60186 AS KING3	- 60304 EAU CL 3	CKT: 1	221.5	218.4	181.0	181.0	122.0	120.2	1.8
SINGLE 944	: 60101 FORBES 2	- 60198 CHIS-N 2	CKT: 1	221.4	218.4	181.0	181.0	121.9	120.2	1.7
SINGLE 147	: 34066 M-TOWN 7	- 34528 M-TOWN Y	CKT: 1	221.4	218.4	181.0	181.0	121.9	120.2	1.7
SINGLE 53	: 34018 HAZLTON3	- 34019 HAZLTON5	CKT: 1	221.4	218.3	181.0	181.0	121.9	120.1	1.8
SINGLE 153	: 34068 M-TOWN 5	- 34528 M-TOWN Y	CKT: 1	221.4	218.4	181.0	181.0	121.9	120.2	1.7
SINGLE 1142	: 60197 CHIS CO2	- 60198 CHIS-N 2	CKT: 1	221.4	218.4	181.0	181.0	121.9	120.2	1.7
SINGLE 2716	: 34014 ADAMS 5	- 69526 BVR CRK5	CKT: 1	221.3	218.3	181.0	181.0	121.9	120.1	1.8
SINGLE 114	: 34051 TOLEDO 7	- 34066 M-TOWN 7	CKT: 1	221.5	218.5	181.0	181.0	121.9	120.2	1.7
SINGLE 75	: 34029 SALEM 3	- 34036 ROCK CK3	CKT: 1	221.3	218.2	181.0	181.0	121.8	120.1	1.7
SINGLE 74	: 34029 SALEM 3	- 34030 SALEM 5	CKT: 1	221.2	218.2	181.0	181.0	121.8	120.1	1.7
SINGLE 32	: 34009 WINBAGO5	- 61932 RUTLAND5	CKT: 1	220.9	217.9	181.0	181.0	121.7	119.9	1.8
SINGLE 146	: 34066 M-TOWN 7	- 34169 WELSBGT7	CKT: 1	220.2	217.0	181.0	181.0	121.7	119.8	1.9
SINGLE 62	: 34021 LANSINGW	- 34022 LANSING5	CKT: 1	221.1	218.0	181.0	181.0	121.7	120.0	1.7
SINGLE 2778	: 34093 ARNOLD 3	- 64352 TIFFIN 3	CKT: 1	220.9	218.6	181.0	181.0	121.6	120.3	1.3
SINGLE 2897	: 60102 ADAMS 3	- 63032 PL VLLY3	CKT: 1	220.9	217.7	181.0	181.0	121.6	119.8	1.8
SINGLE 2710	: 34010 HAYWARD5	- 61984 AUSTIN 5	CKT: 1	220.8	217.7	181.0	181.0	121.5	119.8	1.7
SINGLE 28	: 34008 FOX LK 5	- 61932 RUTLAND5	CKT: 1	220.6	217.5	181.0	181.0	121.5	119.7	1.8
SINGLE 145	: 34066 M-TOWN 7	- 34085 BLRSTWN7	CKT: 1	220.7	217.6	181.0	181.0	121.5	119.7	1.8
SINGLE 1276	: 60265 LOON TP7	- 60830 EASTWD18	CKT: P	220.7	217.6	181.0	181.0	121.5	119.8	1.7
SINGLE 173	: 34084 PARNEL 5	- 34185 POWESHK5	CKT: 1	220.4	217.4	181.0	181.0	121.4	119.6	1.8
SINGLE 115	: 34051 TOLEDO 7	- 34083 BL.PLN.7	CKT: 1	220.5	217.4	181.0	181.0	121.4	119.6	1.8
SINGLE 992	: 60122 LAWRENC7	- 60834 LAWRENC8	CKT: 1	220.5	217.5	181.0	181.0	121.4	119.7	1.7
SINGLE 2501	: 66529 WATERTN3	- 66537 WHITE 3	CKT: 1	220.5	217.5	181.0	181.0	121.4	119.7	1.7
SINGLE 2736	: 34042 BVR CH65	- 34039 BVRCH52G	CKT: 1	220.4	217.3	181.0	181.0	121.3	119.6	1.7
SINGLE 2730	: 34022 LANSING5	- 69531 POSTVIL5	CKT: 1	220.3	217.2	181.0	181.0	121.3	119.5	1.8
SINGLE 1069	: 60156 PYNSVIL7	- 60356 PAYNES 4	CKT: C	220.1	217.1	181.0	181.0	121.2	119.5	1.7
SINGLE 2503	: 66530 WATERTN4	- 66550 GRANITF4	CKT: 1	220.1	217.1	181.0	181.0	121.2	119.4	1.8
SINGLE 34	: 34010 HAYWARD5	- 34014 ADAMS 5	CKT: 1	220.1	217.1	181.0	181.0	121.2	119.4	1.8
SINGLE 1366	: 60356 PAYNES 4	- 63050 WILLMAR4	CKT: C	220.1	217.1	181.0	181.0	121.2	119.5	1.7
SINGLE 1493	: 60834 LAWRENC8	- 60863 SF M2 T8	CKT: 1	220.0	217.0	181.0	181.0	121.1	119.4	1.7
SINGLE 2053	: 63050 WILLMAR4	- 66550 GRANITF4	CKT: 1	219.9	216.9	181.0	181.0	121.1	119.3	1.8
SINGLE 2192	: 63327 HANKSON4	- 63329 WAHPETN4	CKT: 1	219.9	216.9	181.0	181.0	121.1	119.3	1.8
SINGLE 2238	: 66236 WATERT1T	- 66529 WATERTN3	CKT: 1	219.9	216.9	181.0	181.0	121.1	119.3	1.8
SINGLE 2239	: 66236 WATERT1T	- 66530 WATERTN4	CKT: 1	219.9	216.9	181.0	181.0	121.1	119.3	1.8
SINGLE 2765	: 34075 ELDORA 7	- 34158 ELDORA 9	CKT: 1	220.2	217.2	181.0	181.0	121.1	119.4	1.7
SINGLE 2448	: 66503 BLAIR 4	- 66530 WATERTN4	CKT: 1	220.0	217.0	181.0	181.0	121.1	119.4	1.7
SINGLE 1120	: 60189 BLK DOG4	- 60190 BLK DOG7	CKT: C	219.9	216.9	181.0	181.0	121.1	119.3	1.8
SINGLE 1121	: 60189 BLK DOG4	- 62980 MCLEOD 4	CKT: 1	219.9	216.9	181.0	181.0	121.1	119.3	1.8
SINGLE 952	: 60107 W FARIB7	- 60265 LOON TP7	CKT: C	220.0	217.0	181.0	181.0	121.1	119.4	1.7
SINGLE 2824	: 34191 REASNOR5	- 64062 DMOINES5	CKT: 1	220.0	217.0	181.0	181.0	121.1	119.4	1.7
SINGLE 552	: 34395 EMERY S8	- 34403 CL LAKT8	CKT: 1	220.0	217.0	181.0	181.0	121.1	119.4	1.7
SINGLE 175	: 34085 BLRSTWN7	- 34099 PRAR CK7	CKT: 1	219.9	216.9	181.0	181.0	121.1	119.3	1.8
BASE CASE	: ** BASE CASE	**		218.8	215.8	181.0	181.0	120.5	118.7	1.8
SINGLE 2762	: 34066 M-TOWN 7	- 34088 M-TOWN3G	CKT: 1	217.8	214.8	181.0	181.0	119.9	118.2	1.7
SINGLE 177	: 34089 VINTON 5	- 34091 ARNOLD 5	CKT: 1	217.7	.....	181.0	.....	119.8	.....	*NEW*
SINGLE 2709	: 34008 FOX LK 5	- 34011 FOXLK53G	CKT: 1	217.5	214.5	181.0	181.0	119.7	118.0	1.7
SINGLE 247	: 34137 TRIBOJI5	- 66563 SPENCER5	CKT: 1	217.7	214.1	181.0	181.0	119.7	117.7	2.0
SINGLE 179	: 34091 ARNOLD 5	- 34111 FAIRFAX5	CKT: 1	217.5	214.5	181.0	181.0	119.7	118.0	1.7
SINGLE 1293	: 60287 NOBLES 7	- 60369 FENTON 7	CKT: C	217.4	214.4	181.0	181.0	119.6	117.9	1.7
SINGLE 71	: 34028 LORE 5	- 34129 LIBERTY5	CKT: 1	217.3	214.2	181.0	181.0	119.6	117.8	1.8
SINGLE 2703	: 6001 YANKEE 7	- 6003 G176	CKT: 1	217.4	214.4	181.0	181.0	119.6	117.9	1.7
SINGLE 1009	: 60131 SPLTRTB3	- 66564 SIOUXCY3	CKT: 1	217.2	214.1	181.0	181.0	119.5	117.8	1.7

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  SINGLE 1002 : 60126 SPLT RK3 - 60131 SPLTRTB3 CKT: 1   217.2   214.1   181.0   181.0   119.5   117.8     1.7
  SINGLE 1001 : 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1   217.0   214.0   181.0   181.0   119.4   117.7     1.7
  SINGLE 1008 : 60130 SPLTRTA3 - 66537 WHITE  3 CKT: 1   217.0   214.0   181.0   181.0   119.4   117.7     1.7
  SINGLE 2727 : 34021 LANSINGW - 69523 GENOA  5 CKT: 1   216.8   213.8   181.0   181.0   119.3   117.6     1.7
  SINGLE 2823 : 34189 OTTUMWA5 - 34146 OTTUMW1G CKT: 1   216.4   213.4   181.0   181.0   119.2   117.4     1.8
  SINGLE 2725 : 34020 HAZL S 5 - 64269 WASHBRN5 CKT: 1   216.5   213.7   181.0   181.0   119.2   117.6     1.6
  SINGLE 2705 :  6450 PRIMGHAR -  6460 GI0304F1 CKT: 1   216.5   .....   181.0   .....   119.1   .....   *NEW*
  SINGLE 2788 : 34105 HIAWATA5 - 34112 HIAWATA9 CKT: 1   216.5   213.5   181.0   181.0   119.1   117.4     1.7
  SINGLE 59   : 34019 HAZLTON5 - 61930 WINDSOR5 CKT: 1   216.3   213.3   181.0   181.0   119.0   117.3     1.7
  SINGLE 2464 : 66507 FTTHOMP4 - 66541 BIGBND24 CKT: 1   216.2   213.2   181.0   181.0   119.0   117.2     1.8
  SINGLE 2723 : 34017 CGORDO_5 - 34414 CGORDO1G CKT: 1   216.0   213.0   181.0   181.0   118.9   117.1     1.8
  SINGLE 2808 : 34137 TRIBOJI5 - 63897 G298SYS  CKT: 1   216.2   213.1   181.0   181.0   118.9   117.1     1.8
  SINGLE 2702 :  6001 YANKEE 7 -  6002 YANKGEN  CKT: 1   215.9   212.9   181.0   181.0   118.8   117.0     1.8
  SINGLE 234  : 34129 LIBERTY5 - 34135 DUNDEE 5 CKT: 1   215.7   212.7   181.0   181.0   118.7   117.0     1.7
  SINGLE 2706 : 34006 LAKEFLD3 -  3400 G164     CKT: 1   215.6   212.5   181.0   181.0   118.6   116.8     1.8
  SINGLE 2463 : 66507 FTTHOMP4 - 66540 BIGBND14 CKT: 1   215.2   212.2   181.0   181.0   118.4   116.7     1.7
  SINGLE 2708 : 34007 LAKEFLD5 -  6006 G262     CKT: 1   215.3   212.3   181.0   181.0   118.4   116.7     1.7
  SINGLE 940  : 60015 ANSON CG - 60129 SPLT RK7 CKT: 1   215.0   212.0   181.0   181.0   118.3   116.5     1.8
  SINGLE 941  : 60015 ANSON CG - 61475 ANS TR2Y CKT: 2   215.0   212.0   181.0   181.0   118.3   116.5     1.8
  SINGLE 60   : 34020 HAZL S 5 - 34135 DUNDEE 5 CKT: 1   212.1   209.2   181.0   181.0   116.7   115.0     1.7
  SINGLE 2721 : 34016 EMERY  5 - 63774 SHEFFLD5 CKT: 1   209.8   206.9   181.0   181.0   116.0   114.3     1.7
  SINGLE 2724 : 34019 HAZLTON5 - 64250 BLKHAWK5 CKT: 1   210.2   207.6   181.0   181.0   115.9   114.4     1.5
  SINGLE 2719 : 34016 EMERY  5 - 34911 EMERYGT2 CKT: 1   210.0   207.0   181.0   181.0   115.5   113.8     1.7
  SINGLE 2718 : 34016 EMERY  5 - 34910 EMERYGT1 CKT: 1   210.0   207.0   181.0   181.0   115.5   113.8     1.7
  SINGLE 2720 : 34016 EMERY  5 - 34912 EMERYST1 CKT: 1   205.2   202.2   181.0   181.0   112.9   111.2     1.7
  SINGLE 2902 : 60108 WILMART3 -  8001 G261-ST  CKT: 1   .....   213.3   .....   181.0   .....   117.2  *ELIM*
  SINGLE 2903 : 60110 WILMART7 -  8006 G261-CT1 CKT: 1   .....   214.5   .....   181.0   .....   117.9  *ELIM*
  SINGLE 2904 : 60110 WILMART7 -  8007 G261-CT2 CKT: 1   .....   214.5   .....   181.0   .....   117.9  *ELIM*
  *** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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  98) 64244 SAC GEN  - 64245 CLIPRG19 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  SINGLE 2531 : 66580 SPENCR 8 - 66581 SPENCER8 CKT: 1   167.9   167.7   100.0   100.0   167.9   167.7     0.2
  SINGLE 3561 : 66581 SPENCER8 - 63710 WISDOM 8 CKT: 1   167.6   167.4   100.0   100.0   167.6   167.4     0.2
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   165.1   164.8   100.0   100.0   165.1   164.8     0.3
  SINGLE 3553 : 66563 SPENCER5 - 63906 BVISTA 5 CKT: 1   164.9   164.7   100.0   100.0   164.9   164.7     0.2
  SINGLE 2520 : 66563 SPENCER5 - 66580 SPENCR 8 CKT: 1   163.7   .....   100.0   .....   163.7   .....   *NEW*
  SINGLE 52   : 34017 CGORDO_5 - 34139 HANCOCK5 CKT: 1   163.6   .....   100.0   .....   163.6   .....   *NEW*
  SINGLE 3552 : 66563 SPENCER5 - 63713 OSGOOD 5 CKT: 1   161.0   160.9   100.0   100.0   161.0   160.9     0.1

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  99) 64256 UNIONTP5 - 64285 BUTLER 5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  SINGLE 2722 : 34016 EMERY  5 - 64252 FLOYD  5 CKT: 1   247.0   243.8   181.0   181.0   141.6   139.6     2.0
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   226.2   .....   181.0   .....   128.8   .....   *NEW*
  SINGLE 46   : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1   221.4   218.2   181.0   181.0   125.9   124.1     1.8
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   220.9   217.9   181.0   181.0   125.4   123.6     1.8
  SINGLE 156  : 34072 FRNKLIN7 - 34571 FRNKLN_Y CKT: 1   221.1   217.9   181.0   181.0   125.3   123.5     1.8
  SINGLE 155  : 34072 FRNKLIN7 - 34077 IA FALS7 CKT: 1   221.1   217.9   181.0   181.0   125.3   123.5     1.8
  SINGLE 2863 : 34571 FRNKLN_Y - 64239 FRANKLN5 CKT: 1   221.1   217.9   181.0   181.0   125.3   123.5     1.8
  SINGLE 163  : 34079 TRAER  5 - 34087 DYSART 5 CKT: 1   216.6   213.3   181.0   181.0   122.8   120.8     2.0
  SINGLE 2775 : 34087 DYSART 5 - 64269 WASHBRN5 CKT: 1   215.2   212.7   181.0   181.0   122.6   121.0     1.6
  SINGLE 2777 : 34091 ARNOLD 5 - 34090 ARNOLD1G CKT: 1   215.7   212.9   181.0   181.0   122.3   120.6     1.7
  SINGLE 160  : 34075 ELDORA 7 - 34077 IA FALS7 CKT: 1   214.9   211.9   181.0   181.0   121.8   120.0     1.8
  SINGLE 151  : 34068 M-TOWN 5 - 34079 TRAER  5 CKT: 1   214.1   210.9   181.0   181.0   121.3   119.4     1.9
  SINGLE 42   : 34014 ADAMS  5 - 34015 LIME CK5 CKT: 1   213.6   210.7   181.0   181.0   121.0   119.2     1.8
  SINGLE 161  : 34075 ELDORA 7 - 34169 WELSBGT7 CKT: 1   212.5   209.5   181.0   181.0   120.4   118.6     1.8
  SINGLE 21   : 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1   212.5   209.3   181.0   181.0   120.3   118.4     1.9
  SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1   212.3   208.6   181.0   181.0   120.2   118.0     2.2
  SINGLE 2757 : 34061 BNE JCT5 - 64205 FT.DODG5 CKT: 1   210.8   207.8   181.0   181.0   119.3   117.5     1.8
  SINGLE 35   : 34010 HAYWARD5 - 34015 LIME CK5 CKT: 1   210.0   207.0   181.0   181.0   118.8   117.0     1.8
  SINGLE 54   : 34018 HAZLTON3 - 34020 HAZL S 5 CKT: 2   209.7   207.0   181.0   181.0   118.7   117.0     1.7
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SINGLE 2733	: 34036 ROCK CK3 - 36382 QUAD ;	CKT: 1	209.0	206.1	181.0	181.0	118.2	116.5	1.7
SINGLE 2726	: 34021 LANSINGW - 34024 LANS5 4G	CKT: 1	208.8	205.9	181.0	181.0	118.1	116.3	1.8
SINGLE 55	: 34018 HAZLTON3 - 34093 ARNOLD 3	CKT: 1	208.4	206.0	181.0	181.0	117.8	116.4	1.4
SINGLE 2785	: 34099 PRAR CK7 - 34098 PR CRK4G	CKT: 1	208.1	205.2	181.0	181.0	117.7	116.0	1.7
SINGLE 1116	: 60186 AS KING3 - 60304 EAU CL 3	CKT: 1	208.0	205.0	181.0	181.0	117.6	115.8	1.8
SINGLE 944	: 60101 FORBES 2 - 60198 CHIS-N 2	CKT: 1	207.8	205.0	181.0	181.0	117.5	115.8	1.7
SINGLE 147	: 34066 M-TOWN 7 - 34528 M-TOWN Y	CKT: 1	207.8	204.9	181.0	181.0	117.5	115.8	1.7
SINGLE 53	: 34018 HAZLTON3 - 34019 HAZLTON5	CKT: 1	207.8	204.8	181.0	181.0	117.5	115.7	1.8
SINGLE 153	: 34068 M-TOWN 5 - 34528 M-TOWN Y	CKT: 1	207.8	204.9	181.0	181.0	117.5	115.8	1.7
SINGLE 1142	: 60197 CHIS CO2 - 60198 CHIS-N 2	CKT: 1	207.8	205.0	181.0	181.0	117.5	115.8	1.7
SINGLE 2716	: 34014 ADAMS 5 - 69526 BVR CRK5	CKT: 1	207.7	204.8	181.0	181.0	117.5	115.7	1.8
SINGLE 114	: 34051 TOLEDO 7 - 34066 M-TOWN 7	CKT: 1	207.9	205.0	181.0	181.0	117.5	115.8	1.7
SINGLE 75	: 34029 SALEM 3 - 34036 ROCK CK3	CKT: 1	207.7	204.8	181.0	181.0	117.4	115.7	1.7
SINGLE 74	: 34029 SALEM 3 - 34030 SALEM 5	CKT: 1	207.6	204.8	181.0	181.0	117.4	115.7	1.7
SINGLE 32	: 34009 WINBAGO5 - 61932 RUTLAND5	CKT: 1	207.4	204.6	181.0	181.0	117.3	115.6	1.7
SINGLE 146	: 34066 M-TOWN 7 - 34169 WELSBGT7	CKT: 1	207.0	203.9	181.0	181.0	117.3	115.4	1.9
SINGLE 62	: 34021 LANSINGW - 34022 LANSING5	CKT: 1	207.5	204.6	181.0	181.0	117.3	115.6	1.7
SINGLE 2919	: 60150 MNVLTAP4 - 63054 PANTHER4	CKT: 1	207.5	204.6	181.0	181.0	117.3	115.6	1.7
SINGLE 2897	: 60102 ADAMS 3 - 63032 PL VLLY3	CKT: 1	207.3	204.3	181.0	181.0	117.2	115.4	1.8
SINGLE 2778	: 34093 ARNOLD 3 - 64352 TIFFIN 3	CKT: 1	207.3	205.2	181.0	181.0	117.2	115.9	1.3
SINGLE 1276	: 60265 LOON TP7 - 60830 EASTWD18	CKT: P	207.1	204.3	181.0	181.0	117.1	115.4	1.7
SINGLE 2501	: 66529 WATERTN3 - 66537 WHITE 3	CKT: 1	207.0	204.2	181.0	181.0	117.1	115.3	1.8
SINGLE 2710	: 34010 HAYWARD5 - 61984 AUSTIN 5	CKT: 1	207.2	204.3	181.0	181.0	117.1	115.4	1.7
SINGLE 28	: 34008 FOX LK 5 - 61932 RUTLAND5	CKT: 1	207.1	204.2	181.0	181.0	117.1	115.3	1.8
SINGLE 145	: 34066 M-TOWN 7 - 34085 BLRSTWN7	CKT: 1	207.1	204.2	181.0	181.0	117.1	115.3	1.8
SINGLE 992	: 60122 LAWRENC7 - 60834 LAWRENC8	CKT: 1	207.0	204.1	181.0	181.0	117.0	115.3	1.7
SINGLE 173	: 34084 PARNEL 5 - 34185 POWESHK5	CKT: 1	206.9	204.0	181.0	181.0	117.0	115.2	1.8
SINGLE 115	: 34051 TOLEDO 7 - 34083 BL.PLN.7	CKT: 1	206.9	204.0	181.0	181.0	117.0	115.2	1.8
SINGLE 2730	: 34022 LANSING5 - 69531 POSTVIL5	CKT: 1	206.8	203.9	181.0	181.0	116.9	115.1	1.8
SINGLE 2736	: 34042 BVR CH65 - 34039 BVRCH52G	CKT: 1	206.9	203.9	181.0	181.0	116.9	115.2	1.7
SINGLE 2503	: 66530 WATERTN4 - 66550 GRANITF4	CKT: 1	206.6	203.7	181.0	181.0	116.8	115.0	1.8
SINGLE 34	: 34010 HAYWARD5 - 34014 ADAMS 5	CKT: 1	206.6	203.7	181.0	181.0	116.8	115.0	1.8
SINGLE 1366	: 60356 PAYNES 4 - 63050 WILLMAR4	CKT: C	206.6	203.8	181.0	181.0	116.8	115.1	1.7
SINGLE 1069	: 60156 PYNSVIL7 - 60356 PAYNES 4	CKT: C	206.6	203.8	181.0	181.0	116.8	115.1	1.7
SINGLE 1121	: 60189 BLK DOG4 - 62980 MCLEOD 4	CKT: 1	206.4	203.6	181.0	181.0	116.7	115.0	1.7
SINGLE 2765	: 34075 ELDORA 7 - 34158 ELDORA 9	CKT: 1	206.6	203.8	181.0	181.0	116.7	115.0	1.7
SINGLE 952	: 60107 W FARIB7 - 60265 LOON TP7	CKT: C	206.5	203.6	181.0	181.0	116.7	115.0	1.7
SINGLE 552	: 34395 EMERY S8 - 34403 CL LAKT8	CKT: 1	206.5	203.6	181.0	181.0	116.7	115.0	1.7
SINGLE 175	: 34085 BLRSTWN7 - 34099 PRAR CK7	CKT: 1	206.4	.....	181.0	.....	116.7	.....	*NEW*
SINGLE 1493	: 60834 LAWRENC8 - 60863 SF M2 T8	CKT: 1	206.5	203.6	181.0	181.0	116.7	115.0	1.7
SINGLE 2824	: 34191 REASNOR5 - 64062 DMOINES5	CKT: 1	206.5	203.6	181.0	181.0	116.7	115.0	1.7
SINGLE 2053	: 63050 WILLMAR4 - 66550 GRANITF4	CKT: 1	206.4	203.6	181.0	181.0	116.7	115.0	1.7
SINGLE 2448	: 66503 BLAIR 4 - 66530 WATERTN4	CKT: 1	206.5	203.6	181.0	181.0	116.7	115.0	1.7
SINGLE 1120	: 60189 BLK DOG4 - 60190 BLK DOG7	CKT: C	206.4	.....	181.0	.....	116.7	.....	*NEW*
BASE CASE	: ** BASE CASE **		205.4	202.6	181.0	181.0	116.1	114.3	1.8
SINGLE 247	: 34137 TRIBOJI5 - 66563 SPENCER5	CKT: 1	204.3	200.9	181.0	181.0	115.4	113.3	2.1
SINGLE 177	: 34089 VINTON 5 - 34091 ARNOLD 5	CKT: 1	204.2	201.5	181.0	181.0	115.4	113.8	1.6
SINGLE 2709	: 34008 FOX LK 5 - 34011 FOXLK53G	CKT: 1	204.2	201.3	181.0	181.0	115.3	113.6	1.7
SINGLE 179	: 34091 ARNOLD 5 - 34111 FAIRFAX5	CKT: 1	204.1	201.3	181.0	181.0	115.3	113.6	1.7
SINGLE 2905	: 60110 WILMART7 - 8006 G261-CT1	CKT: 1	204.1	201.3	181.0	181.0	115.3	113.6	1.7
SINGLE 2906	: 60110 WILMART7 - 8007 G261-CT2	CKT: 1	204.1	201.3	181.0	181.0	115.3	113.6	1.7
SINGLE 1293	: 60287 NOBLES 7 - 60369 FENTON 7	CKT: C	204.1	201.2	181.0	181.0	115.3	113.5	1.8
SINGLE 71	: 34028 LORE 5 - 34129 LIBERTY5	CKT: 1	204.0	201.0	181.0	181.0	115.2	113.5	1.7
SINGLE 2703	: 6001 YANKEE 7 - 6003 G176	CKT: 1	204.0	201.2	181.0	181.0	115.2	113.5	1.7
SINGLE 1002	: 60126 SPLT RK3 - 60131 SPLTRTB3	CKT: 1	203.8	200.9	181.0	181.0	115.1	113.4	1.7
SINGLE 1009	: 60131 SPLTRTB3 - 66564 SIOUXCY3	CKT: 1	203.8	200.9	181.0	181.0	115.1	113.4	1.7
SINGLE 1008	: 60130 SPLTRTA3 - 66537 WHITE 3	CKT: 1	203.7	200.8	181.0	181.0	115.0	113.3	1.7
SINGLE 1001	: 60126 SPLT RK3 - 60130 SPLTRTA3	CKT: 1	203.7	200.8	181.0	181.0	115.0	113.3	1.7
SINGLE 2727	: 34021 LANSINGW - 69523 GENOA 5	CKT: 1	203.5	200.6	181.0	181.0	114.9	113.2	1.7
SINGLE 2725	: 34020 HAZL S 5 - 64269 WASHBRN5	CKT: 1	202.8	200.2	181.0	181.0	114.8	113.2	1.6
SINGLE 2823	: 34189 OTTUMWA5 - 34146 OTTUMW1G	CKT: 1	203.2	200.3	181.0	181.0	114.8	113.1	1.7
SINGLE 2788	: 34105 HIAWATA5 - 34112 HIAWATA9	CKT: 1	203.2	200.3	181.0	181.0	114.7	113.0	1.7
SINGLE 2705	: 6450 PRIMGHAR - 6460 GI0304F1	CKT: 1	203.2	.....	181.0	.....	114.7	.....	*NEW*

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 SINGLE 2464 : 66507 FTTHOMP4 - 66541 BIGBND24 CKT: 1   202.9   200.1   181.0   181.0   114.6   112.8     1.8
 SINGLE 59   : 34019 HAZLTON5 - 61930 WINDSOR5 CKT: 1   203.0   200.2   181.0   181.0   114.6   112.9     1.7
 SINGLE 2904 : 60108 WILMART3 -  8001 G261-ST  CKT: 1   203.0   200.1   181.0   181.0   114.6   112.8     1.8
 SINGLE 2723 : 34017 CGORDO_5 - 34414 CGORDO1G CKT: 1   202.8   199.9   181.0   181.0   114.5   112.8     1.7
 SINGLE 2808 : 34137 TRIBOJI5 - 63897 G298SYS  CKT: 1   202.8   200.0   181.0   181.0   114.5   112.8     1.7
 SINGLE 2702 :  6001 YANKEE 7 -  6002 YANKGEN  CKT: 1   202.6   199.8   181.0   181.0   114.4   112.7     1.7
 SINGLE 234  : 34129 LIBERTY5 - 34135 DUNDEE 5 CKT: 1   202.4   199.6   181.0   181.0   114.3   112.6     1.7
 SINGLE 2706 : 34006 LAKEFLD3 -  3400 G164     CKT: 1   202.3   199.4   181.0   181.0   114.2   112.4     1.8
 SINGLE 2708 : 34007 LAKEFLD5 -  6006 G262     CKT: 1   202.1   199.2   181.0   181.0   114.0   112.3     1.7
 SINGLE 2463 : 66507 FTTHOMP4 - 66540 BIGBND14 CKT: 1   202.0   199.1   181.0   181.0   114.0   112.3     1.7
 SINGLE 940  : 60015 ANSON CG - 60129 SPLT RK7 CKT: 1   201.8   198.9   181.0   181.0   113.9   112.1     1.8
 SINGLE 941  : 60015 ANSON CG - 61475 ANS TR2Y CKT: 2   201.8   198.9   181.0   181.0   113.9   112.1     1.8
 SINGLE 60   : 34020 HAZL S 5 - 34135 DUNDEE 5 CKT: 1   199.2   196.4   181.0   181.0   112.3   110.6     1.7
 SINGLE 2721 : 34016 EMERY  5 - 63774 SHEFFLD5 CKT: 1   197.2   194.4   181.0   181.0   111.6   109.9     1.7
 SINGLE 2724 : 34019 HAZLTON5 - 64250 BLKHAWK5 CKT: 1   195.6   193.3   181.0   181.0   111.4   110.0     1.4
 SINGLE 2718 : 34016 EMERY  5 - 34910 EMERYGT1 CKT: 1   197.2   194.4   181.0   181.0   111.1   109.4     1.7
 SINGLE 2719 : 34016 EMERY  5 - 34911 EMERYGT2 CKT: 1   197.2   194.4   181.0   181.0   111.1   109.4     1.7
 SINGLE 2720 : 34016 EMERY  5 - 34912 EMERYST1 CKT: 1   192.8   189.9   181.0   181.0   108.5   106.8     1.7
 SINGLE 2918 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1   .....   201.1   .....   181.0   .....   113.4  *ELIM*
 SINGLE 2923 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1   .....   200.8   .....   181.0   .....   113.3  *ELIM*
 SINGLE 2924 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1   .....   200.8   .....   181.0   .....   113.2  *ELIM*
 SINGLE 2925 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1   .....   200.5   .....   181.0   .....   113.0  *ELIM*
 *** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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 100) 64418 E MOLINE - 64671 SB39MID8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 2821 : 34186 NEWPORT5 - 63667 HWY61  5 CKT: 1   123.5   .....   125.0   .....    98.8   .....   *NEW*

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 101) 66441 GARRISN4 - 66457 GARISN1G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 2201 : 63369 JAMESTN3 - 66791 CENTER 3 CKT: 1    98.1    98.1   100.0   100.0    98.1    98.1     0.0
 SINGLE 2197 : 63358 BUFFALO3 - 63369 JAMESTN3 CKT: 1    97.5    97.4   100.0   100.0    97.5    97.4     0.1
 SINGLE 2198 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1    97.4    97.3   100.0   100.0    97.4    97.3     0.1
 BASE CASE   : **       BASE CASE      **                96.2    96.2   100.0   100.0    96.2    96.2     0.0

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 102) 66441 GARRISN4 - 66458 GARISN2G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 2201 : 63369 JAMESTN3 - 66791 CENTER 3 CKT: 1    98.1    98.1   100.0   100.0    98.1    98.1     0.0
 SINGLE 2197 : 63358 BUFFALO3 - 63369 JAMESTN3 CKT: 1    97.5    97.4   100.0   100.0    97.5    97.4     0.1
 SINGLE 2198 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1    97.4    97.3   100.0   100.0    97.4    97.3     0.1
 BASE CASE   : **       BASE CASE      **                96.2    96.2   100.0   100.0    96.2    96.2     0.0

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 103) 66441 GARRISN4 - 66459 GARISN3G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 2201 : 63369 JAMESTN3 - 66791 CENTER 3 CKT: 1    98.1    98.1   100.0   100.0    98.1    98.1     0.0
 SINGLE 2197 : 63358 BUFFALO3 - 63369 JAMESTN3 CKT: 1    97.5    97.4   100.0   100.0    97.5    97.4     0.1
 SINGLE 2198 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1    97.4    97.3   100.0   100.0    97.4    97.3     0.1
 BASE CASE   : **       BASE CASE      **                96.2    96.2   100.0   100.0    96.2    96.2     0.0

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 104) 66442 GARRISN7 - 66460 GARISN4G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 2385 : 66442 GARRISN7 - 66449 MAX    7 CKT: 1   104.4   104.4   100.0   100.0   104.4   104.4     0.0
 SINGLE 1026 : 60139 MALLARD7 - 66449 MAX    7 CKT: 1   104.1   104.1   100.0   100.0   104.1   104.1     0.0
 SINGLE 2599 : 67101 ANTELOP3 - 67183 CHAR.CK3 CKT: 1   103.9   103.9   100.0   100.0   103.9   103.9     0.0
 SINGLE 1024 : 60138 SOURIS 7 - 60139 MALLARD7 CKT: 1   103.4   103.4   100.0   100.0   103.4   103.4     0.0
 SINGLE 3590 : 66791 CENTER 3 - 66756 SQBUTTE4 CKT: 1   103.4   103.4   100.0   100.0   103.4   103.4     0.0
 SINGLE 2059 : 63185 RUGBY  Y - 63379 RUGBY  4 CKT: 1   103.4   .....   100.0   .....   103.4   .....   *NEW*
 BASE CASE   : **       BASE CASE      **                102.3   102.3   100.0   100.0   102.3   102.3     0.0
```

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  SINGLE 2198 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1   101.7   101.5   100.0   100.0   101.7   101.5     0.2
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   101.2   .....   100.0   .....   101.2   .....   *NEW*
  SINGLE 2197 : 63358 BUFFALO3 - 63369 JAMESTN3 CKT: 1   101.0   100.8   100.0   100.0   101.0   100.8     0.2
  SINGLE 1030 : 60140 MCHENRY7 - 63044 MCHENRY4 CKT: 1   100.2   100.2   100.0   100.0   100.2   100.2     0.0
  SINGLE 2590 : 66791 CENTER 3 - 67316 COYOTE 3 CKT: 1   100.1   100.0   100.0   100.0   100.1   100.0     0.1
  SINGLE 2386 : 66442 GARRISN7 - 67113 VOLTAIR7 CKT: 1   100.0   100.0   100.0   100.0   100.0   100.0     0.0
  SINGLE 2608 : 67106 LELANDO4 - 67108 LOGAN  4 CKT: 1    99.8    99.8   100.0   100.0    99.8    99.8     0.0
  SINGLE 2201 : 63369 JAMESTN3 - 66791 CENTER 3 CKT: 1    99.3    99.3   100.0   100.0    99.3    99.3     0.0
  SINGLE 2387 : 66442 GARRISN7 - 67308 BEULAH 7 CKT: 1    99.1    99.1   100.0   100.0    99.1    99.1     0.0
  SINGLE 2612 : 67108 LOGAN  4 - 67208 LOGAN TY CKT: 1    98.9    98.9   100.0   100.0    98.9    98.9     0.0
  SINGLE 2624 : 67155 LOGAN  7 - 67208 LOGAN TY CKT: 1    98.9    98.9   100.0   100.0    98.9    98.9     0.0
  SINGLE 2658 : 67308 BEULAH 7 - 67318 COYOTE 7 CKT: 1    98.6    98.6   100.0   100.0    98.6    98.6     0.0
  SINGLE 1028 : 60139 MALLARD7 - 67155 LOGAN  7 CKT: 1    98.1    98.1   100.0   100.0    98.1    98.1     0.0
  SINGLE 2662 : 67316 COYOTE 3 - 67318 COYOTE 7 CKT: 1    98.1    98.1   100.0   100.0    98.1    98.1     0.0
  SINGLE 2382 : 66441 GARRISN4 - 66442 GARRISN7 CKT: 1    97.1    97.1   100.0   100.0    97.1    97.1     0.0
  SINGLE 2175 : 63279 RUGBOTP7 - 66452 RUGBY  7 CKT: 1   .....   102.3   .....   100.0   .....   102.3  *ELIM*

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 105) 66504 BROOKNG7 - 66538 WHITE  7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2501 : 66529 WATERTN3 - 66537 WHITE  3 CKT: 1   218.1   217.2   160.0   160.0   133.8   133.2     0.6
  SINGLE 2239 : 66236 WATERT1T - 66530 WATERTN4 CKT: 1   204.7   204.1   160.0   160.0   124.5   124.2     0.3
  SINGLE 2238 : 66236 WATERT1T - 66529 WATERTN3 CKT: 1   204.7   204.1   160.0   160.0   124.5   124.2     0.3
  SINGLE 2292 : 66292 WHITE  T - 66538 WHITE  7 CKT: 1   193.7   193.7   160.0   160.0   119.2   119.2     0.0
  SINGLE 2291 : 66292 WHITE  T - 66537 WHITE  3 CKT: 1   193.7   193.7   160.0   160.0   119.2   119.2     0.0
  WHITE T1    : ** MULTIPLE CONTINGENCY **               193.7   193.7   160.0   160.0   119.2   119.2     0.0
              : 66292 WHITE  T - 66293 WHITE  9 CKT: 1
              : 66292 WHITE  T - 66537 WHITE  3 CKT: 1
              : 66292 WHITE  T - 66538 WHITE  7 CKT: 1
  SINGLE 2452 : 66505 FLANDRU7 - 66524 SIOUXFL7 CKT: 1   165.6   165.2   160.0   160.0   100.6   100.3     0.3
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   163.0   .....   160.0   .....    99.7   .....   *NEW*
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   159.5   159.3   160.0   160.0    97.3    97.1     0.2
  SINGLE 3451 : 63314 BIGSTON4 - 63315 BIGSTN1G CKT: 1   159.3   159.1   160.0   160.0    97.1    97.0     0.1
  SINGLE 985  : 60119 LKYNKTN7 - 60279 BUFFRID7 CKT: 1   157.5   157.3   160.0   160.0    96.3    96.2     0.1
  SINGLE 2478 : 66512 GROTON 7 - 67203 GROTONTY CKT: 1   157.8   157.6   160.0   160.0    96.2    96.1     0.1
  SINGLE 2626 : 67160 GROTON 3 - 67203 GROTONTY CKT: 1   157.8   157.6   160.0   160.0    96.2    96.1     0.1
  SINGLE 3400 : 63041 COAL CR4 - 63000 COAL 41G CKT: 1   156.8   156.6   160.0   160.0    95.6    95.5     0.1
  SINGLE 3401 : 63041 COAL CR4 - 63001 COAL 42G CKT: 1   156.8   156.7   160.0   160.0    95.6    95.5     0.1
  SINGLE 20   : 34006 LAKEFLD3 - 60286 NOBLES 3 CKT: C   156.5   156.3   160.0   160.0    95.5    95.4     0.1
  SINGLE 993  : 60122 LAWRENC7 - 66524 SIOUXFL7 CKT: 1   156.7   156.5   160.0   160.0    95.5    95.4     0.1
  SINGLE 1002 : 60126 SPLT RK3 - 60131 SPLTRTB3 CKT: 1   156.3   156.1   160.0   160.0    95.3    95.2     0.1
  SINGLE 21   : 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1   156.3   156.0   160.0   160.0    95.3    95.1     0.2
  SINGLE 1009 : 60131 SPLTRTB3 - 66564 SIOUXCY3 CKT: 1   156.3   156.1   160.0   160.0    95.2    95.1     0.1
  SINGLE 3593 : 67101 ANTELOP3 - 67107 ANTEL32G CKT: 1   155.9   155.7   160.0   160.0    95.0    94.9     0.1
  SINGLE 3625 : 67316 COYOTE 3 - 67315 COYOTE1G CKT: 1   155.8   155.6   160.0   160.0    95.0    94.9     0.1
  SINGLE 3592 : 67101 ANTELOP3 - 67103 ANTEL31G CKT: 1   155.9   155.7   160.0   160.0    95.0    94.9     0.1
  SINGLE 1085 : 60170 MARSHAL7 - 60171 LYON CO7 CKT: 1   155.4   155.3   160.0   160.0    94.9    94.8     0.1
  SINGLE 2913 : 60129 SPLT RK7 - 61496 SPLTRK2Y CKT: 1   155.5   155.3   160.0   160.0    94.8    94.7     0.1
  SINGLE 2910 : 60126 SPLT RK3 - 61495 SPLTRK1Y CKT: 1   155.5   155.3   160.0   160.0    94.8    94.7     0.1
  SINGLE 2911 : 60126 SPLT RK3 - 61496 SPLTRK2Y CKT: 1   155.5   155.3   160.0   160.0    94.8    94.7     0.1
  SINGLE 2912 : 60129 SPLT RK7 - 61495 SPLTRK1Y CKT: 1   155.5   155.3   160.0   160.0    94.8    94.7     0.1
  SINGLE 983  : 60119 LKYNKTN7 - 60171 LYON CO7 CKT: 1   155.2   155.0   160.0   160.0    94.7    94.6     0.1
  SINGLE 1049 : 60148 MINVALY7 - 60171 LYON CO7 CKT: 1   155.0   154.8   160.0   160.0    94.6    94.4     0.2
  SINGLE 2475 : 66512 GROTON 7 - 66533 BRISTOL7 CKT: 1   155.1   155.0   160.0   160.0    94.6    94.5     0.1
  SINGLE 994  : 60123 PIPESTN7 - 60125 PATHFDR7 CKT: 1   154.8   154.6   160.0   160.0    94.4    94.3     0.1
  SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1   154.9   154.7   160.0   160.0    94.4    94.3     0.1
  SINGLE 1000 : 60125 PATHFDR7 - 60129 SPLT RK7 CKT: 1   154.8   154.6   160.0   160.0    94.4    94.3     0.1
  SINGLE 2294 : 66294 IVANHOE7 - 66538 WHITE  7 CKT: 1   154.4   154.2   160.0   160.0    94.3    94.1     0.2
  SINGLE 2495 : 66522 SUMMIT-7 - 66533 BRISTOL7 CKT: 1   154.7   154.5   160.0   160.0    94.3    94.2     0.1
  SINGLE 990  : 60122 LAWRENC7 - 60129 SPLT RK7 CKT: 1   154.6   154.5   160.0   160.0    94.3    94.2     0.1
  SINGLE 984  : 60119 LKYNKTN7 - 60171 LYON CO7 CKT: C   154.6   154.4   160.0   160.0    94.3    94.2     0.1
  SINGLE 3575 : 66751 CENTER 4 - 66749 CENTER1G CKT: 1   154.6   154.4   160.0   160.0    94.2    94.1     0.1
  SINGLE 2293 : 66294 IVANHOE7 - 66295 IVANHOE8 CKT: 1   154.4   154.2   160.0   160.0    94.2    94.1     0.1
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SINGLE 1373 : 60371 ERIE RD7 - 66508 S3     7 CKT: 1   154.5   154.3   160.0   160.0    94.2    94.1     0.1
SINGLE 2925 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1   154.5   154.3   160.0   160.0    94.2    94.1     0.1
SINGLE 2926 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1   154.5   154.3   160.0   160.0    94.2    94.1     0.1
SINGLE 2241 : 66238 WATERT2T - 66531 WATERTN7 CKT: 1   154.3   154.1   160.0   160.0    94.1    94.0     0.1
SINGLE 2242 : 66241 WATERT3T - 66530 WATERTN4 CKT: 1   154.3   154.1   160.0   160.0    94.1    94.0     0.1
SINGLE 2243 : 66241 WATERT3T - 66531 WATERTN7 CKT: 1   154.3   154.1   160.0   160.0    94.1    94.0     0.1
SINGLE 2240 : 66238 WATERT2T - 66530 WATERTN4 CKT: 1   154.3   154.1   160.0   160.0    94.1    94.0     0.1
505         : ** MULTIPLE CONTINGENCY **               154.2   154.0   160.0   160.0    94.1    93.9     0.2
            : 66551 GRANITF7 - 66508 S3     7 CKT: 1
            : 66552 MARS ER7 - 66508 S3     7 CKT: 1
            : 60371 ERIE RD7 - 66508 S3     7 CKT: 1
SINGLE 2463 : 66507 FTTHOMP4 - 66540 BIGBND14 CKT: 1   154.4   154.2   160.0   160.0    94.1    94.0     0.1
SINGLE 2920 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1   154.2   154.0   160.0   160.0    94.0    93.9     0.1
SINGLE 3595 : 67105 LELANDO3 - 67111 LELAN32G CKT: 1   154.3   154.1   160.0   160.0    94.0    93.9     0.1
SINGLE 2483 : 66514 HURON  4 - 66530 WATERTN4 CKT: 2   154.1   154.0   160.0   160.0    94.0    93.9     0.1
SINGLE 3577 : 66752 DRAYTON4 - 67557 LETELER4 CKT: 1   154.2   154.0   160.0   160.0    94.0    93.9     0.1
SINGLE 2482 : 66514 HURON  4 - 66530 WATERTN4 CKT: 1   154.1   154.0   160.0   160.0    94.0    93.9     0.1
SINGLE 2464 : 66507 FTTHOMP4 - 66541 BIGBND24 CKT: 1   154.0   153.8   160.0   160.0    93.9    93.7     0.2
SINGLE 2937 : 60186 AS KING3 - 60006 KING 31G CKT: 1   154.1   153.9   160.0   160.0    93.9    93.8     0.1
SINGLE 2466 : 66508 S3     7 - 66551 GRANITF7 CKT: 1   154.0   153.8   160.0   160.0    93.9    93.8     0.1
SINGLE 991  : 60122 LAWRENC7 - 60129 SPLT RK7 CKT: 2   154.1   153.9   160.0   160.0    93.9    93.8     0.1
SINGLE 3402 : 63049 STANTON4 - 63002 STANT41G CKT: 1   154.0   153.9   160.0   160.0    93.9    93.8     0.1
SINGLE 2200 : 63362 OAKES  4 - 67326 ELLENDL4 CKT: 1   154.0   153.8   160.0   160.0    93.9    93.8     0.1
BLL-EDP/PKL3: ** MULTIPLE CONTINGENCY **               154.1   153.9   160.0   160.0    93.9    93.8     0.1
            : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
            : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1
SPK-CHC/WSF7: ** MULTIPLE CONTINGENCY **               154.0   153.8   160.0   160.0    93.9    93.8     0.1
            : 60129 SPLT RK7 - 60117 CHERRYC7 CKT: 1
            : 60129 SPLT RK7 - 60132 WSX FLS7 CKT: 1
SINGLE 3536 : 66519 OAHE   4 - 66557 OAHE4-5G CKT: 1   154.1   153.9   160.0   160.0    93.9    93.8     0.1
705       1 : ** MULTIPLE CONTINGENCY **               154.0   153.9   160.0   160.0    93.9    93.8     0.1
            : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1
            : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
            : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 1
SINGLE 3537 : 66519 OAHE   4 - 66558 OAHE6-7G CKT: 1   154.1   153.9   160.0   160.0    93.9    93.8     0.1
BASE CASE   : **       BASE CASE      **               152.9   152.7   160.0   160.0    93.2    93.1     0.1
SINGLE 2193 : 63327 HANKSON4 - 63363 FORMAN 4 CKT: 1   151.9   .....   160.0   .....    92.6   .....   *NEW*
SINGLE 1366 : 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C   151.7   151.6   160.0   160.0    92.5    92.4     0.1
SINGLE 1069 : 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C   151.7   151.6   160.0   160.0    92.5    92.4     0.1
SINGLE 2605 : 67105 LELANDO3 - 67160 GROTON 3 CKT: 1   151.8   151.6   160.0   160.0    92.5    92.3     0.2
SINGLE 2053 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1   151.7   151.5   160.0   160.0    92.5    92.4     0.1
SINGLE 2054 : 63051 HENNING4 - 63052 INMAN  4 CKT: 1   151.8   151.7   160.0   160.0    92.5    92.4     0.1
SINGLE 2055 : 63051 HENNING4 - 63331 FERGSFL4 CKT: 1   151.7   151.6   160.0   160.0    92.5    92.4     0.1
500         : ** MULTIPLE CONTINGENCY **               151.5   151.3   160.0   160.0    92.4    92.3     0.1
            : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
            : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1
SINGLE 2078 : 63195 BIGSTONY - 63214 BIGSTON7 CKT: 1   151.6   151.5   160.0   160.0    92.4    92.3     0.1
SINGLE 2194 : 63329 WAHPETN4 - 63331 FERGSFL4 CKT: 1   151.6   151.4   160.0   160.0    92.4    92.3     0.1
SINGLE 2079 : 63195 BIGSTONY - 63314 BIGSTON4 CKT: 1   151.6   151.5   160.0   160.0    92.4    92.3     0.1
SINGLE 2244 : 66242 WATERT18 - 66531 WATERTN7 CKT: 1   151.4   151.3   160.0   160.0    92.3    92.2     0.1
SINGLE 1056 : 60150 MNVLTAP4 - 66550 GRANITF4 CKT: 1   151.5   151.3   160.0   160.0    92.3    92.2     0.1
SINGLE 3395 : 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1   151.1   151.0   160.0   160.0    92.2    92.0     0.2
SINGLE 2381 : 66438 FORMAN 7 - 66522 SUMMIT-7 CKT: 1   150.9   150.7   160.0   160.0    92.0    91.9     0.1
SINGLE 3523 : 66506 FTTHOMP3 - 66571 GR ISLD3 CKT: 1   150.8   150.7   160.0   160.0    92.0    91.9     0.1
SINGLE 2919 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1   150.5   150.3   160.0   160.0    91.8    91.7     0.1
SINGLE 944  : 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1   150.5   150.4   160.0   160.0    91.8    91.7     0.1
SINGLE 1142 : 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1   150.5   150.4   160.0   160.0    91.8    91.7     0.1
SINGLE 2976 : 60287 NOBLES 7 -  6430 G287     CKT: 1   150.7   150.6   160.0   160.0    91.8    91.7     0.1
SINGLE 3023 : 60369 FENTON 7 -  6036 G162     CKT: 1   150.7   150.5   160.0   160.0    91.8    91.6     0.2
795         : ** MULTIPLE CONTINGENCY **               150.4   150.2   160.0   160.0    91.7    91.6     0.1
            : 66550 GRANITF4 - 60150 MNVLTAP4 CKT: 1
            : 60148 MINVALY7 - 60149 MINVALT4 CKT: C
            : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1
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             : 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1
             : 63054 PANTHER4 - 60742 PANTHER8 CKT: 1
  SINGLE 2192 : 63327 HANKSON4 - 63329 WAHPETN4 CKT: 1   150.2   150.0   160.0   160.0    91.5    91.4     0.1
  SINGLE 2270 : 66271 ARLNGTN8 - 66500 ARLNGTN7 CKT: 1   150.1   149.9   160.0   160.0    91.5    91.4     0.1
  SINGLE 2494 : 66522 SUMMIT-7 - 66531 WATERTN7 CKT: 1   150.0   149.8   160.0   160.0    91.4    91.3     0.1
  SINGLE 1003 : 60126 SPLT RK3 - 60286 NOBLES 3 CKT: C   150.2   150.0   160.0   160.0    91.4    91.3     0.1
  SINGLE 2449 : 66503 BLAIR  4 - 66550 GRANITF4 CKT: 1   149.5   149.4   160.0   160.0    91.1    91.0     0.1
  SINGLE 2448 : 66503 BLAIR  4 - 66530 WATERTN4 CKT: 1   149.2   149.1   160.0   160.0    90.9    90.8     0.1
  SINGLE 2443 : 66500 ARLNGTN7 - 66531 WATERTN7 CKT: 1   148.9   148.8   160.0   160.0    90.8    90.7     0.1
  SINGLE 2703 :  6001 YANKEE 7 -  6003 G176     CKT: 1   148.9   148.7   160.0   160.0    90.6    90.5     0.1
  SINGLE 2503 : 66530 WATERTN4 - 66550 GRANITF4 CKT: 1   148.7   148.5   160.0   160.0    90.6    90.5     0.1
  SINGLE 2230 : 66226 FLANDRUT - 66229 FLANDRU8 CKT: 1   148.1   .....   160.0   .....    90.1   .....   *NEW*
  WATERT1T    : ** MULTIPLE CONTINGENCY **               .....   204.1   .....   160.0   .....   124.2  *ELIM*
             : 66236 WATERT1T - 66237 WATERT19 CKT: 1
             : 66236 WATERT1T - 66529 WATERTN3 CKT: 1
             : 66236 WATERT1T - 66530 WATERTN4 CKT: 1
  WATERT2T    : ** MULTIPLE CONTINGENCY **               .....   154.1   .....   160.0   .....    94.0  *ELIM*
             : 66238 WATERT2T - 66239 WATERT29 CKT: 1
             : 66238 WATERT2T - 66530 WATERTN4 CKT: 1
             : 66238 WATERT2T - 66531 WATERTN7 CKT: 1
  WATERT3T    : ** MULTIPLE CONTINGENCY **               .....   154.1   .....   160.0   .....    94.0  *ELIM*
             : 66241 WATERT3T - 66530 WATERTN4 CKT: 1
             : 66241 WATERT3T - 66531 WATERTN7 CKT: 1
             : 66241 WATERT3T - 66240 WATERT39 CKT: 1
  *** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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 106) 66509 FTRANDL4 - 66549 FTRDL78G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 3400 : 63041 COAL CR4 - 63000 COAL 41G CKT: 1    90.2    90.2    98.0    98.0    92.1    92.0     0.1
  SINGLE 3401 : 63041 COAL CR4 - 63001 COAL 42G CKT: 1    90.2    90.2    98.0    98.0    92.1    92.0     0.1
  SINGLE 3592 : 67101 ANTELOP3 - 67103 ANTEL31G CKT: 1    90.0    90.0    98.0    98.0    91.9    91.9     0.0
  SINGLE 3593 : 67101 ANTELOP3 - 67107 ANTEL32G CKT: 1    90.0    90.0    98.0    98.0    91.9    91.9     0.0
  SINGLE 3525 : 66509 FTRANDL4 - 66547 FTRDL34G CKT: 1    90.0    89.9    98.0    98.0    91.8    91.8     0.0
  SINGLE 3526 : 66509 FTRANDL4 - 66548 FTRDL56G CKT: 1    90.0    90.0    98.0    98.0    91.8    91.8     0.0
  BASE CASE   : **       BASE CASE      **                89.0    88.9    98.0    98.0    90.8    90.8     0.0

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 107) 66519 OAHE   4 - 66557 OAHE4-5G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 3537 : 66519 OAHE   4 - 66558 OAHE6-7G CKT: 1   202.1   202.1   206.0   206.0    98.1    98.1     0.0
  SINGLE 3535 : 66519 OAHE   4 - 66556 OAHE2-3G CKT: 1   201.2   201.2   206.0   206.0    97.7    97.7     0.0
  BASE CASE   : **       BASE CASE      **               198.7   198.7   206.0   206.0    96.5    96.5     0.0
  SINGLE 3538 : 66520 OAHE   7 - 66559 OAHE  1G CKT: 1   197.7   197.7   206.0   206.0    96.0    96.0     0.0

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 108) 66519 OAHE   4 - 66558 OAHE6-7G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 3536 : 66519 OAHE   4 - 66557 OAHE4-5G CKT: 1   200.1   200.1   206.0   206.0    97.1    97.1     0.0
  SINGLE 3535 : 66519 OAHE   4 - 66556 OAHE2-3G CKT: 1   199.2   199.2   206.0   206.0    96.7    96.7     0.0
  BASE CASE   : **       BASE CASE      **               196.7   196.7   206.0   206.0    95.5    95.5     0.0
  SINGLE 3538 : 66520 OAHE   7 - 66559 OAHE  1G CKT: 1   195.7   195.7   206.0   206.0    95.0    95.0     0.0

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 109) 66581 SPENCER8 - 63710 WISDOM 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 244  : 34136 TRIBOJI8 - 34906 FLYCLD 8 CKT: 1   107.2   106.3   110.0   110.0    96.1    95.2     0.9
  SINGLE 2705 :  6450 PRIMGHAR -  6460 GI0304F1 CKT: 1   105.3   .....   110.0   .....    94.6   .....   *NEW*
  SINGLE 52   : 34017 CGORDO_5 - 34139 HANCOCK5 CKT: 1   102.4   .....   110.0   .....    92.9   .....   *NEW*
  050    1    : ** MULTIPLE CONTINGENCY **               102.8   .....   110.0   .....    92.9   .....   *NEW*
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
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              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
  050     2   : ** MULTIPLE CONTINGENCY **                102.8   .....   110.0   .....    92.9   .....   *NEW*
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
  SINGLE 240  : 34136 TRIBOJI8 - 34544 TRIBOJ1Y CKT: 1   102.8   .....   110.0   .....    92.0   .....   *NEW*
  SINGLE 19   : 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1   .....   104.0   .....   110.0   .....    94.3  *ELIM*
  SINGLE 956  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   .....   104.1   .....   110.0   .....    93.8  *ELIM*
  SINGLE 2518 : 66563 SPENCER5 - 66566 SIOUXCY5 CKT: 1   .....   103.5   .....   110.0   .....    93.4  *ELIM*
  SINGLE 2527 : 66574 SIOUXCY8 - 66592 L2UNION8 CKT: 1   .....   103.5   .....   110.0   .....    93.9  *ELIM*
  SINGLE 2718 : 34016 EMERY  5 - 34912 EMERYST1 CKT: 1   .....   104.2   .....   110.0   .....    94.5  *ELIM*
  SINGLE 3550 : 66563 SPENCER5 - 63713 OSGOOD 5 CKT: 1   .....   102.4   .....   110.0   .....    91.2  *ELIM*
  SINGLE 3561 : 66589 L1SXCTR8 - 63947 HOSPERS8 CKT: 1   .....   103.2   .....   110.0   .....    93.6  *ELIM*
  525       1 : ** MULTIPLE CONTINGENCY **                .....   104.2   .....   110.0   .....    94.5  *ELIM*
              : 60117 CHERRYC7 - 60132 WSX FLS7 CKT: 1
              : 60129 SPLT RK7 - 60132 WSX FLS7 CKT: 1

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 110) 66751 CENTER 4 - 66749 CENTER1G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  SINGLE 3400 : 63041 COAL CR4 - 63000 COAL 41G CKT: 1   242.0   242.0   256.0   256.0    94.5    94.5     0.0
  SINGLE 3401 : 63041 COAL CR4 - 63001 COAL 42G CKT: 1   242.0   242.0   256.0   256.0    94.5    94.5     0.0
  SINGLE 2665 : 67326 ELLENDL4 - 67327 ELLENDL7 CKT: 1   240.6   240.6   256.0   256.0    94.0    94.0     0.0
  SINGLE 2464 : 66507 FTTHOMP4 - 66541 BIGBND24 CKT: 1   239.6   239.6   256.0   256.0    93.6    93.6     0.0
  SINGLE 1013 : 60133 SHEYNNE4 - 63336 AUDUBON4 CKT: 1   239.7   .....   256.0   .....    93.6   .....   *NEW*
  SINGLE 2052 : 63049 STANTON4 - 67106 LELANDO4 CKT: 1   239.6   239.6   256.0   256.0    93.6    93.6     0.0
  SINGLE 3402 : 63049 STANTON4 - 63002 STANT41G CKT: 1   239.6   239.6   256.0   256.0    93.6    93.6     0.0
  SINGLE 2492 : 66519 OAHE   4 - 66521 SULLYBT4 CKT: 1   239.4   239.4   256.0   256.0    93.5    93.5     0.0
  SINGLE 2527 : 66573 STEGALL4 - 67206 STGXFMR4 CKT: 1   239.4   239.4   256.0   256.0    93.5    93.5     0.0
  SINGLE 2589 : 66789 BEMIDJIT - 67015 BEMIDJI8 CKT: 1   239.3   239.3   256.0   256.0    93.5    93.5     0.0
  SINGLE 2622 : 67135 STEGALL3 - 67207 STEGALTY CKT: 1   239.4   239.4   256.0   256.0    93.5    93.5     0.0
  SINGLE 2639 : 67206 STGXFMR4 - 67207 STEGALTY CKT: 1   239.4   239.4   256.0   256.0    93.5    93.5     0.0
  SINGLE 2126 : 63239 BAGLEY 7 - 63241 CLEARBR7 CKT: 1   239.3   .....   256.0   .....    93.5   .....   *NEW*
  SINGLE 2226 : 66220 BELFELDT - 66425 BELFELD4 CKT: 1   239.4   239.4   256.0   256.0    93.5    93.5     0.0
  SINGLE 3465 : 66220 BELFELDT - 66221 BELFELD9 CKT: 1   239.4   .....   256.0   .....    93.5   .....   *NEW*
  SINGLE 2135 : 63245 WILTON 7 - 66776 WILTON T CKT: 1   239.2   239.2   256.0   256.0    93.4    93.5    -0.1
  SINGLE 2607 : 67105 LELANDO3 - 67202 LELND2TY CKT: 1   239.1   239.1   256.0   256.0    93.4    93.4     0.0
  SINGLE 2611 : 67106 LELANDO4 - 67202 LELND2TY CKT: 1   239.1   239.1   256.0   256.0    93.4    93.4     0.0
  BASE CASE   : **       BASE CASE      **               238.1   238.1   256.0   256.0    93.0    93.0     0.0
  SINGLE 1017 : 60134 SHEYNNE7 - 60172 SHYSWCP7 CKT: 1   237.1   236.6   256.0   256.0    92.6    92.4     0.2
  SINGLE 2057 : 63056 BALTA  4 - 63379 RUGBY  4 CKT: 1   237.0   .....   256.0   .....    92.6   .....   *NEW*
  SINGLE 2351 : 66426 BISMARK4 - 66427 BISMARK7 CKT: 1   237.0   237.0   256.0   256.0    92.6    92.6     0.0
  SINGLE 2653 : 67304 BAKER  4 - 67310 BOWMAN 4 CKT: 1   237.1   .....   256.0   .....    92.6   .....   *NEW*
  SINGLE 2626 : 67160 GROTON 3 - 67203 GROTONTY CKT: 1   236.8   236.8   256.0   256.0    92.5    92.5     0.0
  SINGLE 2478 : 66512 GROTON 7 - 67203 GROTONTY CKT: 1   236.8   236.8   256.0   256.0    92.5    92.5     0.0
  SINGLE 2501 : 66529 WATERTN3 - 66537 WHITE  3 CKT: 1   236.9   236.9   256.0   256.0    92.5    92.5     0.0
  SINGLE 2160 : 63265 DEVILSE7 - 63266 RAMSEY 7 CKT: 1   236.6   236.6   256.0   256.0    92.4    92.4     0.0
  SINGLE 2048 : 63044 MCHENRY4 - 63056 BALTA  4 CKT: 1   236.5   236.1   256.0   256.0    92.4    92.2     0.2
  SINGLE 2574 : 66751 CENTER 4 - 67342 HESKETT4 CKT: 1   236.5   236.5   256.0   256.0    92.4    92.4     0.0
  SINGLE 2050 : 63047 RAMSEY 4 - 63266 RAMSEY 7 CKT: 1   236.6   236.6   256.0   256.0    92.4    92.4     0.0
  SINGLE 2352 : 66426 BISMARK4 - 66441 GARRISN4 CKT: 1   236.1   236.1   256.0   256.0    92.2    92.2     0.0
  SINGLE 2688 : 67401 ABDNJCT7 - 67402 ABDNSBT7 CKT: 1   236.1   236.1   256.0   256.0    92.2    92.2     0.0
  SINGLE 2056 : 63056 BALTA  4 - 63290 HARVEY 4 CKT: 1   236.0   235.6   256.0   256.0    92.2    92.0     0.2
  SINGLE 2448 : 66503 BLAIR  4 - 66530 WATERTN4 CKT: 1   235.7   235.7   256.0   256.0    92.1    92.1     0.0
  SINGLE 2182 : 63290 HARVEY 4 - 63381 UNDERWD4 CKT: 1   235.8   235.4   256.0   256.0    92.1    92.0     0.1
  SINGLE 2045 : 63042 COAL TP4 - 63044 MCHENRY4 CKT: 1   235.9   235.5   256.0   256.0    92.1    92.0     0.1
  SINGLE 2044 : 63041 COAL CR4 - 63381 UNDERWD4 CKT: 1   235.8   235.5   256.0   256.0    92.1    92.0     0.1
  SINGLE 3451 : 63314 BIGSTON4 - 63315 BIGSTN1G CKT: 1   235.0   235.0   256.0   256.0    91.8    91.8     0.0
  SINGLE 2356 : 66426 BISMARK4 - 67338 GLENHAM4 CKT: 1   235.1   235.1   256.0   256.0    91.8    91.8     0.0
  SINGLE 2336 : 66417 DICKNSN4 - 67342 HESKETT4 CKT: 1   234.3   234.3   256.0   256.0    91.5    91.5     0.0
  SINGLE 1014 : 60133 SHEYNNE4 - 66435 FARGO  4 CKT: 1   232.9   232.9   256.0   256.0    91.0    91.0     0.0
  SINGLE 3403 : 63049 STANTON4 - 66756 SQBUTTE4 CKT: 1   232.8   232.8   256.0   256.0    90.9    91.0    -0.1
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  SINGLE 942  : 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1   .....   236.6   .....   256.0   .....    92.4  *ELIM*
  SINGLE 2058 : 63186 WILTON Y - 63245 WILTON 7 CKT: 1   .....   237.1   .....   256.0   .....    92.6  *ELIM*
  SINGLE 2059 : 63186 WILTON Y - 63345 WILTON 4 CKT: 1   .....   237.1   .....   256.0   .....    92.6  *ELIM*
  SINGLE 2193 : 63329 WAHPETN4 - 66754 MAPLE R4 CKT: 1   .....   239.2   .....   256.0   .....    93.4  *ELIM*
  SINGLE 2376 : 66437 GRNDFKS4 - 66759 PICKERT4 CKT: 1   .....   237.0   .....   256.0   .....    92.6  *ELIM*
  *** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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 111) 67316 COYOTE 3 - 67315 COYOTE1G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  SINGLE 1014 : 60133 SHEYNNE4 - 66435 FARGO  4 CKT: 1   415.7   415.7   428.0   428.0    97.1    97.1     0.0
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   414.4   414.1   428.0   428.0    96.8    96.8     0.0
  SINGLE 2192 : 63327 HANKSON4 - 63329 WAHPETN4 CKT: 1   414.4   414.3   428.0   428.0    96.8    96.8     0.0
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   412.9   412.7   428.0   428.0    96.5    96.4     0.1
  SINGLE 2051 : 63047 RAMSEY 4 - 66755 PRAIRIE4 CKT: 1   412.6   412.5   428.0   428.0    96.4    96.4     0.0
  SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1   412.5   412.4   428.0   428.0    96.4    96.4     0.0
  SINGLE 2371 : 66435 FARGO  4 - 66444 JAMESTN4 CKT: 2   412.2   412.1   428.0   428.0    96.3    96.3     0.0
  SINGLE 2383 : 66441 GARRISN4 - 66444 JAMESTN4 CKT: 1   412.4   412.3   428.0   428.0    96.3    96.3     0.0
  SINGLE 2370 : 66435 FARGO  4 - 66444 JAMESTN4 CKT: 1   412.3   412.2   428.0   428.0    96.3    96.3     0.0
  SINGLE 2925 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1   411.7   411.6   428.0   428.0    96.2    96.2     0.0
  SINGLE 2926 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1   411.7   411.6   428.0   428.0    96.2    96.2     0.0
  SINGLE 2049 : 63047 RAMSEY 4 - 63056 BALTA  4 CKT: 1   411.6   411.5   428.0   428.0    96.2    96.2     0.0
  SINGLE 2353 : 66426 BISMARK4 - 66444 JAMESTN4 CKT: 1   411.5   411.4   428.0   428.0    96.1    96.1     0.0
  SINGLE 2391 : 66444 JAMESTN4 - 67328 WEBER  4 CKT: 1   411.4   411.3   428.0   428.0    96.1    96.1     0.0
  SINGLE 2678 : 67342 HESKETT4 - 67394 WISHEK 4 CKT: 1   411.1   411.1   428.0   428.0    96.1    96.1     0.0
  SINGLE 2920 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1   411.2   411.1   428.0   428.0    96.1    96.1     0.0
  SINGLE 2355 : 66426 BISMARK4 - 67328 WEBER  4 CKT: 1   411.3   411.2   428.0   428.0    96.1    96.1     0.0
  SINGLE 2191 : 63325 BROWNSV4 - 63327 HANKSON4 CKT: 1   411.4   411.3   428.0   428.0    96.1    96.1     0.0
  SINGLE 2189 : 63314 BIGSTON4 - 63325 BROWNSV4 CKT: 1   411.5   411.4   428.0   428.0    96.1    96.1     0.0
  SINGLE 3577 : 66752 DRAYTON4 - 67557 LETELER4 CKT: 1   411.4   411.3   428.0   428.0    96.1    96.1     0.0
  SINGLE 2390 : 66444 JAMESTN4 - 66759 PICKERT4 CKT: 1   410.7   410.6   428.0   428.0    96.0    95.9     0.1
  SINGLE 2200 : 63362 OAKES  4 - 67326 ELLENDL4 CKT: 1   410.8   410.8   428.0   428.0    96.0    96.0     0.0
  SINGLE 2605 : 67105 LELANDO3 - 67160 GROTON 3 CKT: 1   411.0   410.9   428.0   428.0    96.0    96.0     0.0
  SINGLE 2666 : 67326 ELLENDL4 - 67394 WISHEK 4 CKT: 1   410.9   410.8   428.0   428.0    96.0    96.0     0.0
  SINGLE 2937 : 60186 AS KING3 - 60006 KING 31G CKT: 1   410.8   410.7   428.0   428.0    96.0    96.0     0.0
  SINGLE 3434 : 63223 HOOT LK7 - 63324 HOOTLK3G CKT: 1   410.7   410.6   428.0   428.0    96.0    95.9     0.1
  SINGLE 2199 : 63362 OAKES  4 - 63363 FORMAN 4 CKT: 1   410.7   410.7   428.0   428.0    96.0    96.0     0.0
  SHY-CAS/CAS7: ** MULTIPLE CONTINGENCY **               410.8   410.7   428.0   428.0    96.0    96.0     0.0
              : 60134 SHEYNNE7 - 60135 CASS CO7 CKT: 1
              : 60134 SHEYNNE7 - 66761 MODEROW7 CKT: 1
  SINGLE 2579 : 66755 PRAIRIE4 - 66758 WINGER 4 CKT: 1   410.7   410.7   428.0   428.0    96.0    96.0     0.0
  SINGLE 2616 : 67120 HURON  3 - 67204 BRDLNDTY CKT: 1   410.5   410.4   428.0   428.0    95.9    95.9     0.0
  SINGLE 2638 : 67204 BRDLNDTY - 67205 BRDLAND4 CKT: 1   410.5   410.4   428.0   428.0    95.9    95.9     0.0
  SINGLE 1017 : 60134 SHEYNNE7 - 60172 SHYSWCP7 CKT: 1   410.3   410.3   428.0   428.0    95.9    95.9     0.0
  SINGLE 2900 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1   410.4   410.3   428.0   428.0    95.9    95.9     0.0
  SINGLE 2901 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1   410.4   410.3   428.0   428.0    95.9    95.9     0.0
  SINGLE 2193 : 63327 HANKSON4 - 63363 FORMAN 4 CKT: 1   410.5   410.5   428.0   428.0    95.9    95.9     0.0
  SINGLE 1034 : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1   410.5   410.4   428.0   428.0    95.9    95.9     0.0
  SINGLE 2448 : 66503 BLAIR  4 - 66530 WATERTN4 CKT: 1   410.4   410.4   428.0   428.0    95.9    95.9     0.0
  SINGLE 2449 : 66503 BLAIR  4 - 66550 GRANITF4 CKT: 1   410.4   410.4   428.0   428.0    95.9    95.9     0.0
  SINGLE 2484 : 66514 HURON  4 - 67205 BRDLAND4 CKT: 1   410.5   410.4   428.0   428.0    95.9    95.9     0.0
  SINGLE 3433 : 63223 HOOT LK7 - 63323 HOOTLK2G CKT: 1   410.2   410.2   428.0   428.0    95.9    95.8     0.1
  SINGLE 2503 : 66530 WATERTN4 - 66550 GRANITF4 CKT: 1   410.6   410.5   428.0   428.0    95.9    95.9     0.0
  SINGLE 3451 : 63314 BIGSTON4 - 63315 BIGSTN1G CKT: 1   410.3   410.3   428.0   428.0    95.9    95.9     0.0
  SINGLE 2574 : 66751 CENTER 4 - 67342 HESKETT4 CKT: 1   410.6   410.6   428.0   428.0    95.9    95.9     0.0
  SINGLE 2598 : 67101 ANTELOP3 - 67120 HURON  3 CKT: 1   410.5   410.4   428.0   428.0    95.9    95.9     0.0
  675         : ** MULTIPLE CONTINGENCY **               410.5   410.4   428.0   428.0    95.9    95.9     0.0
              : 60142 BENTON 3 - 63045 BENTON 4 CKT: 1
              : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1
              : 60142 BENTON 3 - 63045 BENTON 4 CKT: 2
  SINGLE 21   : 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1   410.5   410.4   428.0   428.0    95.9    95.9     0.0
  SINGLE 2098 : 63214 BIGSTON7 - 63215 HIWY12 7 CKT: 1   410.2   .....   428.0   .....    95.8   .....   *NEW*
  SINGLE 2078 : 63195 BIGSTONY - 63214 BIGSTON7 CKT: 1   410.2   .....   428.0   .....    95.8   .....   *NEW*
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SINGLE 2079 : 63195 BIGSTONY - 63314 BIGSTON4 CKT: 1   410.2   .....   428.0   .....    95.8   .....   *NEW*
SINGLE 3523 : 66506 FTTHOMP3 - 66571 GR ISLD3 CKT: 1   410.2   .....   428.0   .....    95.8   .....   *NEW*
BASE CASE   : **       BASE CASE      **               409.1   409.1   428.0   428.0    95.6    95.6     0.0
SINGLE 2387 : 66442 GARRISN7 - 67308 BEULAH 7 CKT: 1   407.8   407.8   428.0   428.0    95.3    95.3     0.0
SINGLE 3627 : 67343 HESKETT7 - 67345 HESKET2G CKT: 1   407.9   407.9   428.0   428.0    95.3    95.3     0.0
SINGLE 2337 : 66418 DKSN-ND7 - 67320 DICKSWH7 CKT: 1   407.9   407.9   428.0   428.0    95.3    95.3     0.0
535       1 : ** MULTIPLE CONTINGENCY **               407.8   407.7   428.0   428.0    95.3    95.3     0.0
            : 60134 SHEYNNE7 - 60135 CASS CO7 CKT: 1
            : 66761 MODEROW7 - 60134 SHEYNNE7 CKT: 1
            : 66761 MODEROW7 - 60135 CASS CO7 CKT: 1
            : 60135 CASS CO7 - 60137 REDRIVR7 CKT: 1
SINGLE 2663 : 67318 COYOTE 7 - 67320 DICKSWH7 CKT: 1   407.8   407.8   428.0   428.0    95.3    95.3     0.0
SINGLE 2599 : 67101 ANTELOP3 - 67183 CHAR.CK3 CKT: 1   407.6   407.6   428.0   428.0    95.2    95.2     0.0
SINGLE 1013 : 60133 SHEYNNE4 - 63336 AUDUBON4 CKT: 1   407.5   407.1   428.0   428.0    95.2    95.1     0.1
SINGLE 3595 : 67105 LELANDO3 - 67111 LELAN32G CKT: 1   407.5   407.5   428.0   428.0    95.2    95.2     0.0
SINGLE 2066 : 63189 MAPLER1Y - 66754 MAPLE R4 CKT: 1   407.6   407.5   428.0   428.0    95.2    95.2     0.0
SINGLE 2067 : 63189 MAPLER1Y - 66792 MAPLE R3 CKT: 1   407.6   407.5   428.0   428.0    95.2    95.2     0.0
SINGLE 2068 : 63190 MAPLER2Y - 66754 MAPLE R4 CKT: 1   407.6   407.5   428.0   428.0    95.2    95.2     0.0
SINGLE 2069 : 63190 MAPLER2Y - 66792 MAPLE R3 CKT: 1   407.6   407.5   428.0   428.0    95.2    95.2     0.0
MAPLER XFR1 : ** MULTIPLE CONTINGENCY **               407.6   407.5   428.0   428.0    95.2    95.2     0.0
            : 63189 MAPLER1Y - 63359 MAPLER19 CKT: 1
            : 63189 MAPLER1Y - 66754 MAPLE R4 CKT: 1
            : 63189 MAPLER1Y - 66792 MAPLE R3 CKT: 1
MAPLER XFR2 : ** MULTIPLE CONTINGENCY **               407.6   407.5   428.0   428.0    95.2    95.2     0.0
            : 63190 MAPLER2Y - 63360 MAPLER29 CKT: 1
            : 63190 MAPLER2Y - 66754 MAPLE R4 CKT: 1
            : 63190 MAPLER2Y - 66792 MAPLE R3 CKT: 1
SINGLE 3509 : 66442 GARRISN7 - 66460 GARISN4G CKT: 1   407.4   407.4   428.0   428.0    95.2    95.2     0.0
SINGLE 1015 : 60133 SHEYNNE4 - 66754 MAPLE R4 CKT: 1   407.2   407.1   428.0   428.0    95.1    95.1     0.0
SINGLE 3592 : 67101 ANTELOP3 - 67103 ANTEL31G CKT: 1   405.2   405.2   428.0   428.0    94.7    94.7     0.0
SINGLE 3593 : 67101 ANTELOP3 - 67107 ANTEL32G CKT: 1   405.2   405.2   428.0   428.0    94.7    94.7     0.0
SINGLE 2658 : 67308 BEULAH 7 - 67318 COYOTE 7 CKT: 1   404.7   404.7   428.0   428.0    94.6    94.6     0.0
SINGLE 3401 : 63041 COAL CR4 - 63001 COAL 42G CKT: 1   404.1   404.0   428.0   428.0    94.4    94.4     0.0
SINGLE 3400 : 63041 COAL CR4 - 63000 COAL 41G CKT: 1   404.1   404.1   428.0   428.0    94.4    94.4     0.0
SINGLE 3576 : 66751 CENTER 4 - 66756 SQBUTTE4 CKT: 1   403.4   403.4   428.0   428.0    94.3    94.3     0.0
SINGLE 3575 : 66751 CENTER 4 - 66749 CENTER1G CKT: 1   403.1   403.1   428.0   428.0    94.2    94.2     0.0
SINGLE 2662 : 67316 COYOTE 3 - 67318 COYOTE 7 CKT: 1   402.3   402.3   428.0   428.0    94.0    94.0     0.0
SINGLE 2201 : 63369 JAMESTN3 - 66791 CENTER 3 CKT: 1   401.2   401.2   428.0   428.0    93.7    93.7     0.0
SINGLE 2590 : 66791 CENTER 3 - 67316 COYOTE 3 CKT: 1   393.8   393.8   428.0   428.0    92.0    92.0     0.0
SINGLE 3590 : 66791 CENTER 3 - 66756 SQBUTTE4 CKT: 1   391.4   391.4   428.0   428.0    91.4    91.4     0.0
SINGLE 2197 : 63358 BUFFALO3 - 63369 JAMESTN3 CKT: 1   387.0   386.6   428.0   428.0    90.4    90.3     0.1

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 112) 67343 HESKETT7 - 67345 HESKET2G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 2590 : 66791 CENTER 3 - 67316 COYOTE 3 CKT: 1   131.2   131.2    80.0    80.0   164.0   164.0     0.0
SINGLE 2351 : 66426 BISMARK4 - 66427 BISMARK7 CKT: 1   130.8   130.8    80.0    80.0   163.5   163.5     0.0
SINGLE 2358 : 66427 BISMARK7 - 67329 ESTBMRK7 CKT: 1   130.0   130.0    80.0    80.0   162.4   162.4     0.0
SINGLE 2201 : 63369 JAMESTN3 - 66791 CENTER 3 CKT: 1   129.6   129.6    80.0    80.0   162.0   162.0     0.0
SINGLE 2197 : 63358 BUFFALO3 - 63369 JAMESTN3 CKT: 1   128.7   128.6    80.0    80.0   160.9   160.8     0.1
SINGLE 2198 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1   128.5   128.4    80.0    80.0   160.6   160.5     0.1
BASE CASE   : **       BASE CASE      **               127.5   127.5    80.0    80.0   159.4   159.4     0.0

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 113) *** NOT CONVERGED ***                            PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 2    :  6001 YANKEE 7 - 66337 WHITE2 7 CKT: 1     0.0     0.0     0.0     0.0     0.0     0.0     0.0
SINGLE 1292 : 60286 NOBLES 3 - 60287 NOBLES 7 CKT: C     0.0     0.0     0.0     0.0     0.0     0.0     0.0
SINGLE 2311 : 66337 WHITE2 7 - 66537 WHITE  3 CKT: P     0.0     0.0     0.0     0.0     0.0     0.0     0.0
BEN-GRC/SCL7: ** MULTIPLE CONTINGENCY **                 0.0     0.0     0.0     0.0     0.0     0.0     0.0
            : 60143 BENTON 7 - 60146 GRANCTY7 CKT: 1
            : 60143 BENTON 7 - 60348 BENCTP7  CKT: 1
            : 60348 BENCTP7  - 60157 STCLOUD7 CKT: 1
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114) 60208 EDINA 7 - 60263 EDEN PR7 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 1224 : 60234 PARKERS7 - 60259 BASCRK 7 CKT: 1	366.4	366.1	318.0	318.0	114.4	114.3	0.1
SINGLE 1214 : 60227 MEDLAKE7 - 60259 BASCRK 7 CKT: 1	356.2	356.0	318.0	318.0	111.2	111.1	0.1
SINGLE 1225 : 60234 PARKERS7 - 60346 CEDARLK7 CKT: P	342.2	342.0	318.0	318.0	106.6	106.5	0.1
SINGLE 1255 : 60249 STLSPRK7 - 60346 CEDARLK7 CKT: P	337.9	337.6	318.0	318.0	105.2	105.1	0.1
SINGLE 1197 : 60217 INVRHLS3 - 60218 INVRHLS7 CKT: 1	321.1	320.9	318.0	318.0	100.1	100.0	0.1
SINGLE 1126 : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1	318.2	317.7	318.0	318.0	99.5	99.3	0.2
SINGLE 1223 : 60233 PARKERS3 - 61490 PKLMID1Y CKT: 1	318.5	318.3	318.0	318.0	99.3	99.2	0.1
SINGLE 1226 : 60234 PARKERS7 - 61489 PKLMID2Y CKT: 1	318.6	318.4	318.0	318.0	99.3	99.2	0.1
SINGLE 1227 : 60234 PARKERS7 - 61490 PKLMID1Y CKT: 1	318.5	318.3	318.0	318.0	99.3	99.2	0.1
SINGLE 1222 : 60233 PARKERS3 - 61489 PKLMID2Y CKT: 1	318.6	318.4	318.0	318.0	99.3	99.2	0.1
SINGLE 1120 : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C	317.5	317.1	318.0	318.0	99.0	98.9	0.1
SINGLE 1121 : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1	317.5	317.1	318.0	318.0	99.0	98.9	0.1
SINGLE 973 : 60114 ELM CRK3 - 60115 ELMCRK 7 CKT: 1	304.3	304.1	318.0	318.0	94.8	94.7	0.1
SINGLE 1232 : 60236 REDROCK3 - 60238 REDROCK7 CKT: P	303.9	303.7	318.0	318.0	94.7	94.6	0.1
SINGLE 1231 : 60236 REDROCK3 - 60238 REDROCK7 CKT: P	303.9	303.7	318.0	318.0	94.7	94.6	0.1
SINGLE 1199 : 60218 INVRHLS7 - 60220 INVRGRV7 CKT: 1	303.0	302.8	318.0	318.0	94.4	94.3	0.1
SINGLE 1158 : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1	301.2	300.9	318.0	318.0	94.0	93.9	0.1
SINGLE 1234 : 60238 REDROCK7 - 60239 ROGRSLK7 CKT: P	301.1	300.9	318.0	318.0	93.8	93.7	0.1
SINGLE 1180 : 60209 ELLOTPK7 - 60246 SO TOWN7 CKT: 1	298.8	298.6	318.0	318.0	93.1	93.1	0.0
SINGLE 1103 : 60182 ALDRICH7 - 60227 MEDLAKE7 CKT: 1	298.3	298.0	318.0	318.0	92.8	92.8	0.0
SINGLE 1104 : 60182 ALDRICH7 - 60249 STLSPRK7 CKT: P	298.2	298.0	318.0	318.0	92.8	92.8	0.0
SINGLE 1153 : 60202 COON CK3 - 60251 TERMINL3 CKT: 1	296.9	296.7	318.0	318.0	92.5	92.5	0.0
SINGLE 1056 : 60150 MNVLTAP4 - 66550 GRANITF4 CKT: 1	296.8	296.6	318.0	318.0	92.5	92.4	0.1
SINGLE 1123 : 60190 BLK DOG7 - 60258 WILSON 7 CKT: 1	295.9	295.7	318.0	318.0	92.4	92.3	0.1
SINGLE 1148 : 60200 BLK DG27 - 60258 WILSON 7 CKT: 2	296.6	296.5	318.0	318.0	92.4	92.3	0.1
SINGLE 1124 : 60190 BLK DOG7 - 60258 WILSON 7 CKT: 3	295.9	295.7	318.0	318.0	92.4	92.3	0.1
SINGLE 1235 : 60238 REDROCK7 - 60248 STCKYDS7 CKT: 1	295.9	295.7	318.0	318.0	92.2	92.1	0.1
SINGLE 1260 : 60252 TERMINL7 - 60275 PRIOR 7 CKT: 1	295.9	295.6	318.0	318.0	92.2	92.1	0.1
SINGLE 1200 : 60218 INVRHLS7 - 60223 KOCHREF7 CKT: 1	295.8	295.6	318.0	318.0	92.1	92.0	0.1
SINGLE 1251 : 60244 SCOTTCO7 - 62975 SHAKOPE7 CKT: 1	295.4	295.2	318.0	318.0	92.0	91.9	0.1
SINGLE 1096 : 60180 AIRPRT 7 - 60239 ROGRSLK7 CKT: C	295.2	295.0	318.0	318.0	92.0	91.9	0.1
SINGLE 947 : 60105 PR ISLD3 - 60106 PR ISLD5 CKT: 1	295.2	295.0	318.0	318.0	92.0	91.9	0.1
SINGLE 1193 : 60214 HIBRDGE7 - 60239 ROGRSLK7 CKT: 1	294.9	294.7	318.0	318.0	91.9	91.8	0.1
SINGLE 952 : 60107 W FARIB7 - 60265 LOON TP7 CKT: C	294.9	294.6	318.0	318.0	91.9	91.8	0.1
SINGLE 950 : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2	294.5	294.3	318.0	318.0	91.8	91.7	0.1
SINGLE 1257 : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1	294.6	294.4	318.0	318.0	91.8	91.7	0.1
SINGLE 1258 : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1	294.5	294.3	318.0	318.0	91.8	91.7	0.1
SINGLE 1129 : 60193 BLUE LK7 - 60215 HYLNDLK7 CKT: 1	293.6	293.4	318.0	318.0	91.8	91.7	0.1
SINGLE 1261 : 60252 TERMINL7 - 61491 TERMID2Y CKT: 1	294.6	294.4	318.0	318.0	91.8	91.7	0.1
SINGLE 1262 : 60252 TERMINL7 - 61492 TERMID1Y CKT: 1	294.5	294.3	318.0	318.0	91.8	91.7	0.1
SINGLE 949 : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 1	294.3	294.1	318.0	318.0	91.7	91.7	0.0
SINGLE 1215 : 60228 MERIMPK7 - 60275 PRIOR 7 CKT: 1	294.1	293.9	318.0	318.0	91.6	91.5	0.1
SINGLE 1202 : 60218 INVRHLS7 - 61478 INV TR1Y CKT: 1	292.6	292.3	318.0	318.0	91.2	91.1	0.1
SINGLE 1078 : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1	292.6	292.4	318.0	318.0	91.2	91.1	0.1
SINGLE 1154 : 60202 COON CK3 - 60272 MPLEGV23 CKT: 1	292.6	292.4	318.0	318.0	91.2	91.1	0.1
SINGLE 1079 : 60160 SHERCO 3 - 63031 BUNKER 3 CKT: 1	292.7	292.5	318.0	318.0	91.2	91.2	0.0
SINGLE 1077 : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1	292.6	292.3	318.0	318.0	91.2	91.1	0.1
SINGLE 1142 : 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1	291.9	291.6	318.0	318.0	91.1	91.0	0.1
SINGLE 1171 : 60206 CROWRVR7 - 62925 DICKNSN7 CKT: 1	292.2	292.0	318.0	318.0	91.1	91.0	0.1
SINGLE 944 : 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1	292.0	291.8	318.0	318.0	91.1	91.1	0.0
SINGLE 1236 : 60238 REDROCK7 - 60266 BATTCRK7 CKT: P	291.7	291.5	318.0	318.0	90.9	90.8	0.1
SINGLE 1240 : 60239 ROGRSLK7 - 60260 BLOOMGT7 CKT: 1	292.0	291.8	318.0	318.0	90.9	90.9	0.0
SINGLE 1112 : 60186 AS KING3 - 60187 AS KING7 CKT: 1	291.6	291.4	318.0	318.0	90.9	90.8	0.1
SINGLE 1178 : 60209 ELLOTPK7 - 60226 MAIN ST7 CKT: 1	291.5	291.2	318.0	318.0	90.8	90.7	0.1
SINGLE 1127 : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1	291.5	291.3	318.0	318.0	90.8	90.7	0.1
SINGLE 1191 : 60213 GOPHER 7 - 60252 TERMINL7 CKT: 1	291.0	290.8	318.0	318.0	90.7	90.6	0.1
SINGLE 1152 : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1	291.0	290.7	318.0	318.0	90.7	90.6	0.1
SINGLE 969 : 60111 BODE 7 - 60112 FTRIDLY7 CKT: 1	291.0	290.8	318.0	318.0	90.7	90.6	0.1
SINGLE 945 : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1	291.2	291.0	318.0	318.0	90.7	90.7	0.0

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 SINGLE 1117 : 60187 AS KING7 - 60231 OAKPARK7 CKT: 1   291.2   291.0   318.0   318.0    90.7    90.7     0.0
 SINGLE 1161 : 60203 COON CK7 - 60253 TWIN LK7 CKT: 1   291.1   290.9   318.0   318.0    90.7    90.6     0.1
 SINGLE 1259 : 60252 TERMINL7 - 60255 WESTERN7 CKT: 1   291.3   291.1   318.0   318.0    90.7    90.7     0.0
 SINGLE 977  : 60115 ELMCRK 7 - 62923 ARBORLK7 CKT: 1   290.7   290.5   318.0   318.0    90.7    90.7     0.0
 SINGLE 1034 : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1   291.0   290.8   318.0   318.0    90.7    90.7     0.0
 SINGLE 962  : 60110 WILMART7 - 60111 BODE   7 CKT: 1   291.1   290.9   318.0   318.0    90.7    90.6     0.1
 SINGLE 1156 : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1   290.9   290.6   318.0   318.0    90.6    90.5     0.1
 SINGLE 1174 : 60207 DYTNBLF7 - 60266 BATTCRK7 CKT: P   290.9   290.7   318.0   318.0    90.6    90.5     0.1
 SINGLE 1057 : 60151 MNTCELO3 - 60152 MNTCELO4 CKT: 1   290.8   290.6   318.0   318.0    90.6    90.5     0.1
 SINGLE 1160 : 60203 COON CK7 - 60229 MOORELK7 CKT: 1   290.8   290.6   318.0   318.0    90.6    90.5     0.1
 SINGLE 1190 : 60213 GOPHER 7 - 60226 MAIN ST7 CKT: 1   290.7   290.4   318.0   318.0    90.6    90.5     0.1
 SINGLE 1155 : 60202 COON CK3 - 61487 CNCMID2Y CKT: 1   290.8   290.6   318.0   318.0    90.6    90.5     0.1
 SINGLE 1164 : 60203 COON CK7 - 61487 CNCMID2Y CKT: 1   290.8   290.6   318.0   318.0    90.6    90.5     0.1
 SINGLE 1165 : 60203 COON CK7 - 61488 CNCMID1Y CKT: 1   290.9   290.6   318.0   318.0    90.6    90.5     0.1
 SINGLE 1239 : 60239 ROGRSLK7 - 60248 STCKYDS7 CKT: 1   291.1   290.9   318.0   318.0    90.6    90.6     0.0
 SINGLE 1003 : 60126 SPLT RK3 - 60286 NOBLES 3 CKT: C   290.5   290.3   318.0   318.0    90.5    90.4     0.1
 SINGLE 1159 : 60202 COON CK3 - 63031 BUNKER 3 CKT: 1   290.8   290.5   318.0   318.0    90.5    90.5     0.0
 SINGLE 1085 : 60170 MARSHAL7 - 60171 LYON CO7 CKT: 1   290.4   290.2   318.0   318.0    90.5    90.4     0.1
 SINGLE 1060 : 60152 MNTCELO4 - 63043 ELK RIV4 CKT: 1   290.3   290.1   318.0   318.0    90.5    90.4     0.1
 SINGLE 3    :  6010 ELLSBRO  - 60119 LKYNKTN7 CKT: 1   290.1   289.9   318.0   318.0    90.4    90.3     0.1
 SINGLE 1125 : 60192 BLUE LK3 - 60193 BLUE LK7 CKT: 1   290.1   289.8   318.0   318.0    90.4    90.3     0.1
 SINGLE 4    :  6010 ELLSBRO  - 60362 CHANRMB7 CKT: 1   290.1   289.9   318.0   318.0    90.4    90.3     0.1
 SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1   289.9   289.7   318.0   318.0    90.4    90.3     0.1
 SINGLE 1207 : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1   289.9   289.7   318.0   318.0    90.3    90.2     0.1
 SINGLE 1208 : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 2   289.9   289.7   318.0   318.0    90.3    90.2     0.1
 SINGLE 1163 : 60203 COON CK7 - 60268 BRKLNPK7 CKT: 1   289.9   289.7   318.0   318.0    90.3    90.2     0.1
 SINGLE 1188 : 60212 GOOSELK7 - 60222 KOLMNLK7 CKT: 1   289.7   289.5   318.0   318.0    90.3    90.2     0.1
 SINGLE 1058 : 60151 MNTCELO3 - 60153 MNTCELO7 CKT: 1   289.7   289.5   318.0   318.0    90.3    90.3     0.0
 SINGLE 1209 : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1   289.6   289.4   318.0   318.0    90.2    90.1     0.1
 SINGLE 1211 : 60222 KOLMNLK7 - 60235 RAMSY  7 CKT: 1   289.7   289.4   318.0   318.0    90.2    90.2     0.0
 SINGLE 1049 : 60148 MINVALY7 - 60171 LYON CO7 CKT: 1   289.8   289.5   318.0   318.0    90.2    90.2     0.0
 SINGLE 968  : 60110 WILMART7 - 60830 EASTWD18 CKT: P   289.7   289.5   318.0   318.0    90.2    90.2     0.0
 SINGLE 1219 : 60232 OSSEO  7 - 60351 CRYSTAL7 CKT: P   289.7   289.5   318.0   318.0    90.2    90.2     0.0
 SINGLE 983  : 60119 LKYNKTN7 - 60171 LYON CO7 CKT: 1   289.7   289.5   318.0   318.0    90.2    90.1     0.1
 SINGLE 1196 : 60216 INDIANA7 - 60351 CRYSTAL7 CKT: P   289.7   289.5   318.0   318.0    90.2    90.2     0.0
 SINGLE 1094 : 60179 AFTON  7 - 60231 OAKPARK7 CKT: 1   289.6   289.4   318.0   318.0    90.2    90.1     0.1
 SINGLE 985  : 60119 LKYNKTN7 - 60279 BUFFRID7 CKT: 1   289.6   289.4   318.0   318.0    90.2    90.1     0.1
 SINGLE 957  : 60108 WILMART3 - 60110 WILMART7 CKT: 2   289.6   289.4   318.0   318.0    90.2    90.1     0.1
 SINGLE 1062 : 60153 MNTCELO7 - 60166 SALIDA 7 CKT: 1   289.7   289.4   318.0   318.0    90.2    90.1     0.1
 SINGLE 1075 : 60158 STCLTP 7 - 60166 SALIDA 7 CKT: 1   289.6   289.4   318.0   318.0    90.2    90.1     0.1
 SINGLE 956  : 60108 WILMART3 - 60110 WILMART7 CKT: 1   289.6   .....   318.0   .....    90.2   .....   *NEW*
 SINGLE 1230 : 60236 REDROCK3 - 60238 REDROCK7 CKT: P   .....   303.7   .....   318.0   .....    94.6  *ELIM*
 SINGLE 1263 : 60256 WSTGATE7 - 60257 BLUFFCK7 CKT: 1   .....   312.9   .....   318.0   .....    97.5  *ELIM*
 *** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

==================================================================================================================
 115) 60835 CHNDLRT8 - 62715 LKWILSN8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 3    :  6010 ELLSBRO  - 60119 LKYNKTN7 CKT: 1    43.6    43.5    47.0    47.0    94.1    93.8     0.3
 SINGLE 4    :  6010 ELLSBRO  - 60362 CHANRMB7 CKT: 1    43.6    43.5    47.0    47.0    94.1    93.8     0.3
 SINGLE 985  : 60119 LKYNKTN7 - 60279 BUFFRID7 CKT: 1    42.5    42.4    47.0    47.0    91.5    91.2     0.3
 SINGLE 1088 : 60171 LYON CO7 - 60903 LYON CO8 CKT: 1    40.9    40.8    47.0    47.0    90.5    90.3     0.2
 SINGLE 983  : 60119 LKYNKTN7 - 60171 LYON CO7 CKT: 1    42.1   .....    47.0   .....    90.1   .....   *NEW*

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 116) 60857 SLAYTON8 - 60858 HADLEY 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 3    :  6010 ELLSBRO  - 60119 LKYNKTN7 CKT: 1    42.9    42.8    47.0    47.0    93.0    92.7     0.3
 SINGLE 4    :  6010 ELLSBRO  - 60362 CHANRMB7 CKT: 1    42.9    42.8    47.0    47.0    93.0    92.7     0.3
 SINGLE 985  : 60119 LKYNKTN7 - 60279 BUFFRID7 CKT: 1    41.8    41.7    47.0    47.0    90.5    90.2     0.3

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 117) 60858 HADLEY 8 - 62715 LKWILSN8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
```

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  SINGLE 3    :  6010 ELLSBRO  - 60119 LKYNKTN7 CKT: 1    42.5    42.4    47.0    47.0    91.7    91.4     0.3
  SINGLE 4    :  6010 ELLSBRO  - 60362 CHANRMB7 CKT: 1    42.5    42.3    47.0    47.0    91.7    91.4     0.3

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 118) 34005 HRN LK 5 - 34007 LAKEFLD5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------------
  SINGLE 10   : 34003 MAGNLIA5 - 34004 ELK    5 CKT: 1   102.0   101.8   112.0   112.0    91.9    91.7     0.2

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 119) 34004 ELK    5 - 34223 ELK    8 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------------
  SINGLE 13   : 34004 ELK    5 - 34223 ELK    8 CKT: 1    64.2    64.2    30.0    30.0   214.0   214.0     0.0

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 120) 62003 JOHNJCT7 - 63216 ORTONVL7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------------
  SINGLE 2192 : 63327 HANKSON4 - 63329 WAHPETN4 CKT: 1   136.5   136.1    96.6    96.6   133.8   133.4     0.4
  SINGLE 2189 : 63314 BIGSTON4 - 63325 BROWNSV4 CKT: 1   134.4   134.0    96.6    96.6   131.7   131.3     0.4
  SINGLE 2191 : 63325 BROWNSV4 - 63327 HANKSON4 CKT: 1   131.3   130.9    96.6    96.6   128.6   128.3     0.3
  SINGLE 2449 : 66503 BLAIR  4 - 66550 GRANITF4 CKT: 1   116.9   116.7    96.6    96.6   114.7   114.5     0.2
  SINGLE 2190 : 63314 BIGSTON4 - 66503 BLAIR  4 CKT: 1   109.2   109.1    96.6    96.6   106.7   106.7     0.0
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   102.1   101.8    96.6    96.6   101.2   100.8     0.4
  SINGLE 2201 : 63369 JAMESTN3 - 66791 CENTER 3 CKT: 1   102.5   102.2    96.6    96.6   100.3   100.0     0.3
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   100.9   100.6    96.6    96.6    99.2    98.8     0.4
  SINGLE 2097 : 63213 MARIETT7 - 63214 BIGSTON7 CKT: 1   101.4   101.2    96.6    96.6    99.0    98.8     0.2
  SINGLE 2197 : 63358 BUFFALO3 - 63369 JAMESTN3 CKT: 1   100.9   100.6    96.6    96.6    98.7    98.4     0.3
  SINGLE 2096 : 63212 BURR   7 - 63213 MARIETT7 CKT: 1   101.2   100.9    96.6    96.6    98.7    98.5     0.2
  SINGLE 2198 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1   100.7   100.5    96.6    96.6    98.6    98.3     0.3
  SINGLE 2512 : 66554 MORRIS 4 - 66555 MORRIS 7 CKT: 1    99.1    98.8    96.6    96.6    97.1    96.8     0.3
  SINGLE 2508 : 66550 GRANITF4 - 66554 MORRIS 4 CKT: 1    99.4    99.1    96.6    96.6    97.1    96.8     0.3
  SINGLE 2503 : 66530 WATERTN4 - 66550 GRANITF4 CKT: 1    98.4    98.1    96.6    96.6    96.3    96.0     0.3
  SINGLE 2094 : 63211 CANBY  7 - 63212 BURR   7 CKT: 1    98.1    97.9    96.6    96.6    95.7    95.5     0.2
  SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    97.3    97.1    96.6    96.6    95.4    95.2     0.2
  SINGLE 2194 : 63329 WAHPETN4 - 63331 FERGSFL4 CKT: 1    96.9    96.6    96.6    96.6    94.7    94.5     0.2
  SINGLE 1375 : 60374 FIBROMN7 - 62001 BENSON 7 CKT: 1    96.2    95.9    96.6    96.6    94.2    93.9     0.3
  SINGLE 2373 : 66435 FARGO  4 - 66553 MOORHED4 CKT: 1    96.0    95.8    96.6    96.6    94.2    93.9     0.3
  SINGLE 2925 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1    96.1    95.9    96.6    96.6    94.2    93.9     0.3
  SINGLE 2926 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1    96.2    95.9    96.6    96.6    94.2    93.9     0.3
  SINGLE 3430 : 63216 ORTONVL7 - 63116 ORTONVL9 CKT: 1    96.7    96.5    96.6    96.6    94.0    93.7     0.3
  SINGLE 2053 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1    96.0    95.8    96.6    96.6    94.0    93.8     0.2
  SINGLE 1704 : 62000 MARSHLK7 - 63216 ORTONVL7 CKT: 1    96.2    95.9    96.6    96.6    93.7    93.5     0.2
  SINGLE 3434 : 63223 HOOT LK7 - 63324 HOOTLK3G CKT: 1    95.6    95.3    96.6    96.6    93.6    93.3     0.3
  SINGLE 2102 : 63219 GRANTCO7 - 63223 HOOT LK7 CKT: 1    95.5    95.3    96.6    96.6    93.5    93.3     0.2
  500         : ** MULTIPLE CONTINGENCY **               95.4    95.2    96.6    96.6    93.4    93.2     0.2
              : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
              : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1
  SINGLE 1001 : 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1    95.5    95.3    96.6    96.6    93.3    93.2     0.1
  SINGLE 1008 : 60130 SPLTRTA3 - 66537 WHITE  3 CKT: 1    95.4    95.3    96.6    96.6    93.3    93.1     0.2
  SINGLE 2920 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1    95.3    95.0    96.6    96.6    93.2    93.0     0.2
  SINGLE 21   : 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1    94.9    94.6    96.6    96.6    92.9    92.5     0.4
  SINGLE 2937 : 60186 AS KING3 - 60006 KING 31G CKT: 1    94.8    94.5    96.6    96.6    92.7    92.5     0.2
  SINGLE 1705 : 62000 MARSHLK7 - 63217 APPLETN7 CKT: 1    95.0    94.8    96.6    96.6    92.6    92.3     0.3
  SINGLE 3433 : 63223 HOOT LK7 - 63323 HOOTLK2G CKT: 1    94.5    94.3    96.6    96.6    92.4    92.2     0.2
  SINGLE 1368 : 60357 MAYNARD7 - 62005 KERKHOT7 CKT: 1    94.6    94.3    96.6    96.6    92.4    92.2     0.2
  SINGLE 2370 : 66435 FARGO  4 - 66444 JAMESTN4 CKT: 1    94.1    93.9    96.6    96.6    92.0    91.7     0.3
  SINGLE 2590 : 66791 CENTER 3 - 67316 COYOTE 3 CKT: 1    94.1    93.9    96.6    96.6    92.0    91.7     0.3
  SINGLE 2900 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1    93.9    93.7    96.6    96.6    91.9    91.6     0.3
  SINGLE 3625 : 67316 COYOTE 3 - 67315 COYOTE1G CKT: 1    94.2    93.9    96.6    96.6    91.9    91.7     0.2
  SINGLE 2371 : 66435 FARGO  4 - 66444 JAMESTN4 CKT: 2    94.0    93.8    96.6    96.6    91.9    91.7     0.2
  SINGLE 2901 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1    93.9    93.6    96.6    96.6    91.8    91.5     0.3
  SINGLE 3577 : 66752 DRAYTON4 - 67557 LETELER4 CKT: 1    93.9    93.7    96.6    96.6    91.7    91.5     0.2
  675         : ** MULTIPLE CONTINGENCY **               93.6    93.3    96.6    96.6    91.6    91.3     0.3
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                : 60142 BENTON 3 - 63045 BENTON 4 CKT: 1
                : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1
                : 60142 BENTON 3 - 63045 BENTON 4 CKT: 2
  SINGLE 1034 : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1    93.6    93.3    96.6    96.6    91.6    91.3     0.3
  SINGLE 1050 : 60148 MINVALY7 - 60357 MAYNARD7 CKT: 1    93.6    93.4    96.6    96.6    91.5    91.3     0.2
  SINGLE 3401 : 63041 COAL CR4 - 63001 COAL 42G CKT: 1    93.7    93.5    96.6    96.6    91.5    91.2     0.3
  SINGLE 2095 : 63211 CANBY  7 - 66551 GRANITF7 CKT: 1    93.6    93.4    96.6    96.6    91.5    91.2     0.3
  SINGLE 2071 : 63191 WAHPET1Y - 63329 WAHPETN4 CKT: 1    93.4    93.2    96.6    96.6    91.4    91.2     0.2
  SINGLE 2090 : 63201 WAHPET2Y - 63329 WAHPETN4 CKT: 1    93.4    93.2    96.6    96.6    91.4    91.2     0.2
  795         : ** MULTIPLE CONTINGENCY **               93.6    93.3    96.6    96.6    91.4    91.2     0.2
                : 66550 GRANITF4 - 60150 MNVLTAP4 CKT: 1
                : 60148 MINVALY7 - 60149 MINVALT4 CKT: C
                : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1
                : 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1
                : 63054 PANTHER4 - 60742 PANTHER8 CKT: 1
  SINGLE 1366 : 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C    93.5    93.3    96.6    96.6    91.4    91.2     0.2
  SINGLE 3400 : 63041 COAL CR4 - 63000 COAL 41G CKT: 1    93.7    93.5    96.6    96.6    91.4    91.2     0.2
  SINGLE 1069 : 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C    93.5    93.2    96.6    96.6    91.4    91.2     0.2
  SINGLE 1706 : 62001 BENSON 7 - 62002 WALDEN 7 CKT: 1    93.4    93.1    96.6    96.6    91.3    91.0     0.3
  SINGLE 2919 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1    93.5    93.2    96.6    96.6    91.3    91.1     0.2
  SINGLE 20   : 34006 LAKEFLD3 - 60286 NOBLES 3 CKT: C    93.2    92.9    96.6    96.6    91.1    90.8     0.3
  SINGLE 2383 : 66441 GARRISN4 - 66444 JAMESTN4 CKT: 1    93.3    93.0    96.6    96.6    91.1    90.9     0.2
  BLL-EDP/PKL3: ** MULTIPLE CONTINGENCY **                93.1    92.9    96.6    96.6    91.0    90.8     0.2
                : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
                : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1
  705       1 : ** MULTIPLE CONTINGENCY **                93.0    92.8    96.6    96.6    91.0    90.7     0.3
                : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1
                : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
                : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 1
  SINGLE 2051 : 63047 RAMSEY 4 - 66755 PRAIRIE4 CKT: 1    93.1    92.9    96.6    96.6    91.0    90.8     0.2
  SINGLE 3395 : 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1    93.1    92.9    96.6    96.6    90.9    90.7     0.2
  SINGLE 3428 : 63211 CANBY  7 - 63111 CANBY  9 CKT: 1    93.1    92.9    96.6    96.6    90.9    90.6     0.3
  SINGLE 2353 : 66426 BISMARK4 - 66444 JAMESTN4 CKT: 1    93.0    92.7    96.6    96.6    90.9    90.6     0.3
  SINGLE 2355 : 66426 BISMARK4 - 67328 WEBER  4 CKT: 1    92.9    92.7    96.6    96.6    90.8    90.6     0.2
  SINGLE 2391 : 66444 JAMESTN4 - 67328 WEBER  4 CKT: 1    93.0    92.7    96.6    96.6    90.8    90.6     0.2
  PRI-RRK/RRK3: ** MULTIPLE CONTINGENCY **                92.8    92.6    96.6    96.6    90.7    90.5     0.2
                : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 1
                : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
  SINGLE 2093 : 63210 TORONTO7 - 63212 BURR   7 CKT: 1    92.9    92.6    96.6    96.6    90.7    90.4     0.3
  SINGLE 1953 : 62527 ELMO   7 - 62531 INMAN  7 CKT: 1    92.7    92.5    96.6    96.6    90.6    90.4     0.2
  SINGLE 2961 : 60240 RIVRSID7 - 60008 RIVRS78G CKT: 1    92.7    92.4    96.6    96.6    90.6    90.3     0.3
  SINGLE 2049 : 63047 RAMSEY 4 - 63056 BALTA  4 CKT: 1    92.7    92.4    96.6    96.6    90.6    90.3     0.3
  SINGLE 1015 : 60133 SHEYNNE4 - 66754 MAPLE R4 CKT: 1    92.7    92.4    96.6    96.6    90.6    90.3     0.3
  SINGLE 1982 : 62752 MLTN TP7 - 67454 ALEXPLDM CKT: 1    92.6    92.3    96.6    96.6    90.5    90.3     0.2
  SINGLE 1954 : 62527 ELMO   7 - 62752 MLTN TP7 CKT: 1    92.6    92.3    96.6    96.6    90.5    90.3     0.2
  SINGLE 3369 : 62000 MARSHLK7 - 62038 MARSHLK9 CKT: 1    92.7    92.4    96.6    96.6    90.4    90.2     0.2
  SINGLE 2228 : 66224 BLAIR  8 - 66503 BLAIR  4 CKT: 1    92.4   .....    96.6   .....    90.3   .....   *NEW*
  SINGLE 2700 : 67453 ALEXSWM  - 67454 ALEXPLDM CKT: 1    92.4   .....    96.6   .....    90.3   .....   *NEW*
  SINGLE 1009 : 60131 SPLTRTB3 - 66564 SIOUXCY3 CKT: 1    92.4   .....    96.6   .....    90.3   .....   *NEW*
  SINGLE 1002 : 60126 SPLT RK3 - 60131 SPLTRTB3 CKT: 1    92.4   .....    96.6   .....    90.3   .....   *NEW*
  SINGLE 32   : 34009 WINBAGO5 - 61932 RUTLAND5 CKT: 1    92.4   .....    96.6   .....    90.3   .....   *NEW*

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 121) 60150 MNVLTAP4 - 66550 GRANITF4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   333.4   332.1   318.0   318.0   113.1   112.4     0.7
  500         : ** MULTIPLE CONTINGENCY **               344.8   343.4   318.0   318.0   112.0   111.5     0.5
                : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
                : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1
  SINGLE 2053 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1   341.9   340.7   318.0   318.0   111.2   110.7     0.5
  SINGLE 1069 : 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C   321.5   320.3   318.0   318.0   104.3   103.8     0.5
  SINGLE 1366 : 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C   321.0   319.7   318.0   318.0   104.2   103.8     0.4
  SINGLE 1142 : 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1   307.6   306.5   318.0   318.0   101.0   100.5     0.5
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  SINGLE 944  : 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1   307.6   306.4   318.0   318.0   101.0   100.5     0.5
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   299.7   298.6   318.0   318.0   100.5    99.9     0.6
  SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1   292.4   291.4   318.0   318.0    96.6    96.2     0.4
  SINGLE 2926 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1   287.6   286.6   318.0   318.0    94.6    94.2     0.4
  SINGLE 21   : 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1   288.7   287.0   318.0   318.0    94.6    93.9     0.7
  SINGLE 2925 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1   287.6   286.6   318.0   318.0    94.6    94.2     0.4
  SINGLE 2920 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1   284.2   283.2   318.0   318.0    93.2    92.8     0.4
  SINGLE 1008 : 60130 SPLTRTA3 - 66537 WHITE  3 CKT: 1   284.5   283.8   318.0   318.0    92.9    92.6     0.3
  SINGLE 1001 : 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1   284.6   283.8   318.0   318.0    92.9    92.6     0.3
  SINGLE 2937 : 60186 AS KING3 - 60006 KING 31G CKT: 1   283.7   282.6   318.0   318.0    92.8    92.4     0.4
  SINGLE 2900 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1   283.2   282.3   318.0   318.0    92.6    92.2     0.4
  SINGLE 2901 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1   282.8   281.8   318.0   318.0    92.4    92.0     0.4
  SINGLE 3069 : 60728 FRANKLN8 - 60770 BIRCH R8 CKT: C   279.9   278.9   318.0   318.0    90.9    90.6     0.3
  SINGLE 2189 : 63314 BIGSTON4 - 63325 BROWNSV4 CKT: 1   277.5   276.5   318.0   318.0    90.8    90.4     0.4
  705       1 : ** MULTIPLE CONTINGENCY **               277.7   276.7   318.0   318.0    90.7    90.3     0.4
              : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1
              : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
              : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 1
  SINGLE 2055 : 63051 HENNING4 - 63331 FERGSFL4 CKT: 1   277.7   276.6   318.0   318.0    90.6    90.2     0.4
  SINGLE 3037 : 60677 HENRYTR8 - 60770 BIRCH R8 CKT: C   278.7   277.7   318.0   318.0    90.5    90.1     0.4
  SINGLE 2191 : 63325 BROWNSV4 - 63327 HANKSON4 CKT: 1   276.7   275.7   318.0   318.0    90.5    90.1     0.4
  SINGLE 1068 : 60156 PYNSVIL7 - 60162 WAKEFLD7 CKT: C   279.2   .....   318.0   .....    90.4   .....   *NEW*
  SINGLE 2192 : 63327 HANKSON4 - 63329 WAHPETN4 CKT: 1   275.7   .....   318.0   .....    90.3   .....   *NEW*
  SINGLE 2054 : 63051 HENNING4 - 63052 INMAN  4 CKT: 1   276.9   .....   318.0   .....    90.3   .....   *NEW*
  SINGLE 1049 : 60148 MINVALY7 - 60171 LYON CO7 CKT: 1   278.0   .....   318.0   .....    90.3   .....   *NEW*
  SINGLE 1895 : 62427 WILLMAR8 - 63050 WILLMAR4 CKT: 1   278.3   .....   318.0   .....    90.1   .....   *NEW*
  SINGLE 1048 : 60148 MINVALY7 - 60149 MINVALT4 CKT: C   278.7   .....   318.0   .....    90.1   .....   *NEW*
  SINGLE 1055 : 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1   278.7   .....   318.0   .....    90.1   .....   *NEW*
  BLL-EDP/PKL3: ** MULTIPLE CONTINGENCY **               275.8   .....   318.0   .....    90.0   .....   *NEW*
              : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
              : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1

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 122) 64192 GDMEC    - 64193 GDMECGT1 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2823 : 34189 OTTUMWA5 - 34146 OTTUMW1G CKT: 1   188.0   186.5   200.0   200.0    94.0    93.3     0.7
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   185.5   183.8   200.0   200.0    92.8    91.9     0.9
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   182.3   181.2   200.0   200.0    91.1    90.6     0.5
  SINGLE 21   : 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1   180.2   .....   200.0   .....    90.1   .....   *NEW*
  SINGLE 2777 : 34091 ARNOLD 5 - 34090 ARNOLD1G CKT: 1   180.1   .....   200.0   .....    90.0   .....   *NEW*

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 123) 64192 GDMEC    - 64194 GDMECGT2 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2823 : 34189 OTTUMWA5 - 34146 OTTUMW1G CKT: 1   188.0   186.5   200.0   200.0    94.0    93.3     0.7
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   185.5   183.8   200.0   200.0    92.8    91.9     0.9
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   182.3   181.2   200.0   200.0    91.1    90.6     0.5
  SINGLE 21   : 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1   180.2   .....   200.0   .....    90.1   .....   *NEW*
  SINGLE 2777 : 34091 ARNOLD 5 - 34090 ARNOLD1G CKT: 1   180.1   .....   200.0   .....    90.0   .....   *NEW*

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 124) 66236 WATERT1T - 66529 WATERTN3 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1008 : 60130 SPLTRTA3 - 66537 WHITE  3 CKT: 1   445.0   444.5   400.0   400.0   111.3   111.1     0.2
  SINGLE 1001 : 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1   444.2   443.7   400.0   400.0   111.1   110.9     0.2
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   439.7   436.5   400.0   400.0   109.9   109.1     0.8
  SINGLE 3451 : 63314 BIGSTON4 - 63315 BIGSTN1G CKT: 1   428.2   425.8   400.0   400.0   107.0   106.4     0.6
  SINGLE 2451 : 66504 BROOKNG7 - 66538 WHITE  7 CKT: 1   405.4   402.9   400.0   400.0   101.3   100.7     0.6
  SINGLE 2626 : 67160 GROTON 3 - 67203 GROTONTY CKT: 1   398.2   395.5   400.0   400.0    99.5    98.9     0.6
  SINGLE 2478 : 66512 GROTON 7 - 67203 GROTONTY CKT: 1   398.2   395.5   400.0   400.0    99.5    98.9     0.6
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   397.3   394.4   400.0   400.0    99.3    98.6     0.7
  SINGLE 21   : 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1   364.5   360.9   400.0   400.0    91.1    90.2     0.9
  SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1   360.1   .....   400.0   .....    90.0   .....   *NEW*
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125) 66236 WATERT1T - 66530 WATERTN4 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 1008 : 60130 SPLTRTA3 - 66537 WHITE 3 CKT: 1	448.0	447.4	400.0	400.0	112.0	111.9	0.1
SINGLE 1001 : 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1	445.0	444.5	400.0	400.0	111.2	111.1	0.1
SINGLE 959 : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1	440.2	437.1	400.0	400.0	110.1	109.3	0.8
SINGLE 3451 : 63314 BIGSTON4 - 63315 BIGSTN1G CKT: 1	428.4	426.0	400.0	400.0	107.1	106.5	0.6
SINGLE 2451 : 66504 BROOKNG7 - 66538 WHITE 7 CKT: 1	406.0	403.5	400.0	400.0	101.5	100.9	0.6
SINGLE 2626 : 67160 GROTON 3 - 67203 GROTONTY CKT: 1	398.2	395.5	400.0	400.0	99.5	98.9	0.6
SINGLE 2478 : 66512 GROTON 7 - 67203 GROTONTY CKT: 1	398.2	395.5	400.0	400.0	99.5	98.9	0.6
SINGLE 958 : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1	397.4	394.5	400.0	400.0	99.3	98.6	0.7
SINGLE 21 : 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1	364.5	360.8	400.0	400.0	91.1	90.2	0.9
SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1	360.1	.....	400.0	.....	90.0	.....	*NEW*

126) 60284 WATOWAN7 - 60934 WATOWAN8 CKT: P	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 959 : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1	104.6	104.4	70.0	70.0	149.4	149.1	0.3
LAKF-FOX DBL: ** MULTIPLE CONTINGENCY **	73.9	73.4	70.0	70.0	105.6	104.9	0.7
: 34007 LAKEFLD5 - 34008 FOX 5 CKT: 1							
: 34007 LAKEFLD5 - 34008 FOX LK 5 CKT: 2							

127) 34012 FOXLAKE8 - 34275 WELCOMT8 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 28 : 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1	73.2	72.2	69.0	69.0	102.6	101.1	1.5

128) 34275 WELCOMT8 - 61942 10TH STR CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 28 : 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1	69.1	68.0	69.0	69.0	98.5	97.0	1.5

129) 34384 MCARMOR8 - 34396 EMERY N8 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 46 : 34015 LIME CK5 - 34016 EMERY 5 CKT: 1	85.7	85.1	51.0	51.0	164.7	163.5	1.2
SINGLE 550 : 34393 MCHW1068 - 34395 EMERY S8 CKT: 1	72.6	72.3	51.0	51.0	142.4	141.8	0.6
SINGLE 549 : 34393 MCHW1068 - 34394 MC 5DEL8 CKT: 1	58.1	57.9	51.0	51.0	114.1	113.7	0.4
SINGLE 535 : 34380 LMCK E 8 - 34390 MCNWCSS8 CKT: 1	54.8	54.7	51.0	51.0	107.7	107.5	0.2
SINGLE 544 : 34389 MC LPC 8 - 34390 MCNWCSS8 CKT: 1	49.5	49.5	51.0	51.0	97.5	97.5	0.0
SINGLE 959 : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1	49.3	49.1	51.0	51.0	96.6	96.2	0.4
SINGLE 2722 : 34016 EMERY 5 - 64252 FLOYD 5 CKT: 1	49.3	49.0	51.0	51.0	96.4	95.9	0.5
SINGLE 551 : 34395 EMERY S8 - 34396 EMERY N8 CKT: 1	48.3	48.1	51.0	51.0	94.4	94.0	0.4
SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1	47.5	47.3	51.0	51.0	92.8	92.5	0.3
SINGLE 29 : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1	47.2	47.0	51.0	51.0	92.3	91.9	0.4
SINGLE 552 : 34395 EMERY S8 - 34403 CL LAKT8 CKT: 1	47.3	47.1	51.0	51.0	92.2	91.9	0.3
SINGLE 32 : 34009 WINBAGO5 - 61932 RUTLAND5 CKT: 1	47.2	47.0	51.0	51.0	92.2	91.7	0.5
SINGLE 2926 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1	46.9	46.7	51.0	51.0	91.8	91.5	0.3
SINGLE 2925 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1	46.9	46.7	51.0	51.0	91.8	91.4	0.4
SINGLE 556 : 34401 6THAVET8 - 34403 CL LAKT8 CKT: 1	46.8	46.6	51.0	51.0	91.2	90.9	0.3
SINGLE 2900 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1	46.5	46.4	51.0	51.0	91.1	90.8	0.3
SINGLE 2901 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1	46.5	46.3	51.0	51.0	91.0	90.6	0.4
SINGLE 2920 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1	46.5	46.3	51.0	51.0	90.9	90.6	0.3
SINGLE 28 : 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1	46.5	46.3	51.0	51.0	90.9	90.5	0.4
SINGLE 2937 : 60186 AS KING3 - 60006 KING 31G CKT: 1	46.5	46.3	51.0	51.0	90.9	90.6	0.3
SINGLE 958 : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1	46.2	46.1	51.0	51.0	90.5	90.1	0.4
SINGLE 557 : 34401 6THAVET8 - 34411 CLGRTLK8 CKT: 1	46.3	.....	51.0	.....	90.3	.....	*NEW*

130) 61934 RUTLAND - 61942 10TH STR CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 28 : 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1	58.4	57.6	36.0	36.0	161.6	159.3	2.3

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  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    35.4    35.0    36.0    36.0    98.1    96.8     1.3

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 131) 34251 MADLIAJ8 - 60701 MADELVL8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    67.7    66.7    36.0    36.0   195.9   192.7     3.2
  SINGLE 32   : 34009 WINBAGO5 - 61932 RUTLAND5 CKT: 1    32.6   .....    36.0   .....    90.4   .....   *NEW*

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 132) 34280 TRUMANT8 - 61934 RUTLAND  CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 32   : 34009 WINBAGO5 - 61932 RUTLAND5 CKT: 1    36.5    36.1    36.0    36.0    99.5    98.3     1.2

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 133) 60701 MADELVL8 - 60816 BUTERTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    68.8    67.9    36.0    36.0   204.4   201.2     3.2
  SINGLE 32   : 34009 WINBAGO5 - 61932 RUTLAND5 CKT: 1    34.8    34.1    36.0    36.0    96.8    95.0     1.8

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 134) 34013 WNBAGOS5 - 34258 WBGOJ S8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    27.5    27.3    30.0    30.0    91.8    91.0     0.8
  SINGLE 33   : 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1    27.3   .....    30.0   .....    91.0   .....   *NEW*

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 135) 34014 ADAMS  5 - 34015 LIME CK5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 35   : 34010 HAYWARD5 - 34015 LIME CK5 CKT: 1   205.9   203.6   202.0   202.0   101.6   100.4     1.2
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   194.0   191.7   202.0   202.0    96.2    95.0     1.2
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   191.1   188.8   202.0   202.0    94.6    93.4     1.2
  SINGLE 2722 : 34016 EMERY  5 - 64252 FLOYD  5 CKT: 1   190.7   188.3   202.0   202.0    94.2    92.9     1.3

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 136) 34016 EMERY  5 - 64252 FLOYD  5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 46   : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1   235.0   232.0   217.0   217.0   106.2   104.8     1.4
  SINGLE 42   : 34014 ADAMS  5 - 34015 LIME CK5 CKT: 1   210.1   207.3   217.0   217.0    94.9    93.7     1.2
  SINGLE 35   : 34010 HAYWARD5 - 34015 LIME CK5 CKT: 1   201.8   .....   217.0   .....    91.2   .....   *NEW*

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 137) 34016 EMERY  5 - 34395 EMERY S8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 46   : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1   119.6   118.8   112.0   112.0   106.8   106.1     0.7
  SINGLE 51   : 34016 EMERY  5 - 34396 EMERY N8 CKT: 1   117.5   117.2   112.0   112.0   105.0   104.6     0.4

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 138) 34016 EMERY  5 - 34396 EMERY N8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 46   : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1   119.6   118.8   112.0   112.0   106.8   106.1     0.7
  SINGLE 50   : 34016 EMERY  5 - 34395 EMERY S8 CKT: 1   117.5   117.2   112.0   112.0   105.0   104.6     0.4

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 139) 34075 ELDORA 7 - 34077 IA FALS7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 46   : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1    56.4    55.4    60.0    60.0    92.9    91.3     1.6
  SINGLE 2762 : 34066 M-TOWN 7 - 34088 M-TOWN3G CKT: 1    55.5   .....    60.0   .....    91.4   .....   *NEW*
  SINGLE 2722 : 34016 EMERY  5 - 64252 FLOYD  5 CKT: 1    54.8   .....    60.0   .....    90.7   .....   *NEW*

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 140) 34383 MC 25ST8 - 34384 MCARMOR8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 46   : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1    72.7    72.1    69.0    69.0   105.4   104.6     0.8
```

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 141) 34383 MC 25ST8 - 34385 MC NWT 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 46   : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1    72.0    71.5    69.0    69.0   105.4   104.6     0.8

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 142) 34385 MC NWT 8 - 34387 MCLPCSS8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 46   : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1    64.5    64.0    60.0    60.0   109.0   108.0     1.0

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 143) 34387 MCLPCSS8 - 34389 MC LPC 8 CKT:  1  **NEW** PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 46   : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1    53.3   .....    60.0   .....    90.3   .....   *NEW*

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 144) 34393 MCHW1068 - 34394 MC 5DEL8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 539  : 34384 MCARMOR8 - 34396 EMERY N8 CKT: 1    56.6    56.5    60.0    60.0    95.8    95.5     0.3
  SINGLE 46   : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1    54.7    54.3    60.0    60.0    92.4    91.8     0.6

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 145) 34393 MCHW1068 - 34395 EMERY S8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 46   : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1   112.0   111.2   109.0   109.0   100.7    99.9     0.8

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 146) 34020 HAZL S 5 - 34439 HAZLTNS8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 58   : 34019 HAZLTON5 - 34440 HAZLTNN8 CKT: 1    31.7    31.7    30.0    30.0   105.7   105.8    -0.1

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 147) 34019 HAZLTON5 - 34440 HAZLTNN8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 61   : 34020 HAZL S 5 - 34439 HAZLTNS8 CKT: 1    32.5    32.5    30.0    30.0   108.3   108.4    -0.1

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 148) 34463 LORE W 8 - 34469 GARDLAN8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 641  : 34470 DBQ17TH8 - 34473 DBQ 8TH8 CKT: 1    37.6    37.6    36.0    36.0   102.3   102.3     0.0
  SINGLE 80   : 34032 8TH ST.5 - 34473 DBQ 8TH8 CKT: 1    33.9    33.8    36.0    36.0    92.3    92.0     0.3

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 149) 34041 BEVCHN28 - 34330 ADM100 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 96   : 34040 BEVCHN18 - 34333 ADM    8 CKT: 1   139.8   139.8    72.0    72.0   196.2   196.2     0.0
  SINGLE 93   : 34040 BEVCHN18 - 34041 BEVCHN28 CKT: 1    69.3    69.3    72.0    72.0    95.0    95.0     0.0

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 150) 34038 BVR CH 5 - 34041 BEVCHN28 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 94   : 34040 BEVCHN18 - 34042 BVR CH65 CKT: 1    74.1    74.1    74.7    74.7    99.2    99.2     0.0

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 151) 34038 BVR CH 5 - 34041 BEVCHN28 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 94   : 34040 BEVCHN18 - 34042 BVR CH65 CKT: 1    78.2    78.2    74.7    74.7   104.6   104.6     0.0

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 152) 34040 BEVCHN18 - 34041 BEVCHN28 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 94   : 34040 BEVCHN18 - 34042 BVR CH65 CKT: 1   119.5   119.5   126.0   126.0    94.1    94.1     0.0
```

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 153) 34330 ADM100 8 - 34333 ADM    8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 96   : 34040 BEVCHN18 - 34333 ADM    8 CKT: 1    97.6    97.6   104.0   104.0    95.2    95.2     0.0

==================================================================================================================
 154) 34040 BEVCHN18 - 34333 ADM    8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 100  : 34041 BEVCHN28 - 34330 ADM100 8 CKT: 1   139.5   139.5   103.0   103.0   134.6   134.7    -0.1
  SINGLE 509  : 34330 ADM100 8 - 34333 ADM    8 CKT: 1    97.6    97.6   103.0   103.0    93.6    93.6     0.0

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 155) 34061 BNE JCT5 - 34076 BNE JCT7 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 138  : 34061 BNE JCT5 - 34076 BNE JCT7 CKT: 3    77.5    77.4    60.0    60.0   129.1   129.0     0.1
  SINGLE 132  : 34059 BOONE  7 - 34073 GR JCT 7 CKT: 1    59.2    58.8    60.0    60.0    98.7    98.0     0.7
  SINGLE 157  : 34073 GR JCT 7 - 34529 GRJCT5Y  CKT: 1    59.1    58.7    60.0    60.0    98.6    97.9     0.7
  SINGLE 122  : 34054 GR JCT 5 - 34529 GRJCT5Y  CKT: 1    59.1    58.7    60.0    60.0    98.5    97.9     0.6
  SINGLE 154  : 34070 NEVADAT7 - 34071 FERNALD7 CKT: 1    56.8    56.8    60.0    60.0    94.7    94.7     0.0
  SINGLE 2747 : 34054 GR JCT 5 - 63771 DRAGER 5 CKT: 1    56.7    56.2    60.0    60.0    94.4    93.6     0.8
  SINGLE 110  : 34048 ANITA  5 - 34050 GU CTR 5 CKT: 1    55.4    55.1    60.0    60.0    92.3    91.8     0.5
  SINGLE 107  : 34047 ANTA TP5 - 34048 ANITA  5 CKT: 1    55.1    54.8    60.0    60.0    91.9    91.4     0.5

==================================================================================================================
 156) 34066 M-TOWN 7 - 34085 BLRSTWN7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 114  : 34051 TOLEDO 7 - 34066 M-TOWN 7 CKT: 1    58.8    57.5    60.0    60.0    93.3    91.3     2.0
  SINGLE 163  : 34079 TRAER  5 - 34087 DYSART 5 CKT: 1    57.1   .....    60.0   .....    90.7   .....   *NEW*

==================================================================================================================
 157) 34061 BNE JCT5 - 34076 BNE JCT7 CKT:  3          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 137  : 34061 BNE JCT5 - 34076 BNE JCT7 CKT: 2    71.9    71.8    45.0    45.0   159.8   159.6     0.2

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 158) 34051 TOLEDO 7 - 34066 M-TOWN 7 CKT:  1  **NEW** PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 163  : 34079 TRAER  5 - 34087 DYSART 5 CKT: 1    73.4   .....    77.0   .....    90.7   .....   *NEW*
  SINGLE 151  : 34068 M-TOWN 5 - 34079 TRAER  5 CKT: 1    72.9   .....    77.0   .....    90.2   .....   *NEW*

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 159) 63730 HAMPTON5 - 64647 HAMP MD5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 155  : 34072 FRNKLIN7 - 34077 IA FALS7 CKT: 1    77.0    77.0    84.0    84.0    91.7    91.7     0.0
  SINGLE 156  : 34072 FRNKLIN7 - 34571 FRNKLN_Y CKT: 1    77.0    77.0    84.0    84.0    91.7    91.7     0.0
  SINGLE 2863 : 34571 FRNKLN_Y - 64239 FRANKLN5 CKT: 1    77.0    77.0    84.0    84.0    91.7    91.7     0.0

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 160) 64647 HAMP MD5 - 63731 HAMPTON8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2720 : 34016 EMERY  5 - 64252 FLOYD  5 CKT: 1   .....    75.7   .....    84.0   .....    90.1  *ELIM*

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 161) 34149 FAIRFAX8 - 34749 KIRK JT  CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 196  : 34106 PCI    5 - 34536 PCI    Y CKT: 1    93.3    93.3    96.0    96.0    97.2    97.2     0.0
  SINGLE 261  : 34151 PCI    8 - 34536 PCI    Y CKT: 1    93.3    93.3    96.0    96.0    97.2    97.2     0.0

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 162) 34757 PCI EAST - 34760 OAKRIDGE CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 196  : 34106 PCI    5 - 34536 PCI    Y CKT: 1    91.2    91.2    96.0    96.0    97.1    97.1     0.0
```

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  SINGLE 261  : 34151 PCI    8 - 34536 PCI    Y CKT: 1    91.2    91.2    96.0    96.0    97.1    97.1     0.0

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 163) 34760 OAKRIDGE - 34761 KIRKWOOD CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 196  : 34106 PCI    5 - 34536 PCI    Y CKT: 1    91.5    91.5    96.0    96.0    97.1    97.1     0.0
  SINGLE 261  : 34151 PCI    8 - 34536 PCI    Y CKT: 1    91.5    91.5    96.0    96.0    97.1    97.1     0.0

=================================================================================================================
 164) 34125 GR MND 8 - 34819 GRMND TW CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1    22.0    22.0    21.0    21.0   130.5   130.5     0.0

=================================================================================================================
 165) 34817 DOME TAP - 34819 GRMND TW CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1    22.6    22.6    21.0    21.0   131.8   131.8     0.0
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1    22.6    22.6    21.0    21.0   131.8   131.8     0.0
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1    22.4    22.4    21.0    21.0   130.6   130.6     0.0

=================================================================================================================
 166) 34138 DUNDEE 8 - 34521 GRELYTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 234  : 34129 LIBERTY5 - 34135 DUNDEE 5 CKT: 1    24.3    23.9    24.0    24.0   100.8    99.2     1.6
  SINGLE 249  : 34138 DUNDEE 8 - 34490 MASONVL8 CKT: 1    23.8    23.6    24.0    24.0    98.9    98.1     0.8
  SINGLE 652  : 34490 MASONVL8 - 34491 PRAIRI_8 CKT: 1    23.5    23.3    24.0    24.0    97.8    97.0     0.8
  SINGLE 653  : 34491 PRAIRI_8 - 34492 MANCIND8 CKT: 1    22.6    22.4    24.0    24.0    93.8    92.9     0.9

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 167) 34138 DUNDEE 8 - 34543 DUNDEE2Y CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 234  : 34129 LIBERTY5 - 34135 DUNDEE 5 CKT: 1    58.6    58.1    59.0    59.0    99.3    98.5     0.8

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 168) 34003 MAGNLIA5 - 34215 MAGNLIA8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 244  : 34136 TRIBOJI8 - 34906 FLYCLD 8 CKT: 1    44.3    44.3    30.0    30.0   147.5   147.5     0.0

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 169) 34590 GRDRVRE8 - 34643 GRRIVER8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 749  : 34650 ARISTAP8 - 34653 CRESTN8_ CKT: 1    15.1    14.9    12.0    12.0   123.4   121.6     1.8
  SINGLE 747  : 34648 LENXTAP8 - 34650 ARISTAP8 CKT: 1    15.0    14.8    12.0    12.0   122.9   121.1     1.8
  SINGLE 745  : 34647 DIAGONL8 - 34648 LENXTAP8 CKT: 1    14.9    14.7    12.0    12.0   122.2   120.4     1.8
  SINGLE 279  : 34176 MT AYR 8 - 34647 DIAGONL8 CKT: 1    14.8    14.6    12.0    12.0   121.7   119.9     1.8
  SINGLE 689  : 34587 MURRAY 8 - 34658 OSCEOLA8 CKT: 1    12.6    12.4    12.0    12.0   104.0   102.0     2.0
  SINGLE 739  : 34640 WODBURN8 - 34659 OSCEREC8 CKT: 1    12.0    11.7    12.0    12.0    97.4    95.4     2.0
  SINGLE 755  : 34658 OSCEOLA8 - 34659 OSCEREC8 CKT: 1    12.0    11.7    12.0    12.0    97.4    95.4     2.0
  SINGLE 726  : 34625 LACONA 8 - 34640 WODBURN8 CKT: 1    11.9    11.7    12.0    12.0    96.8    94.8     2.0
  SINGLE 725  : 34625 LACONA 8 - 34627 LUCAS T8 CKT: 1    11.9    11.7    12.0    12.0    96.8    94.8     2.0
  SINGLE 328  : 34202 LUCAS  8 - 34627 LUCAS T8 CKT: 1    11.9    11.7    12.0    12.0    96.7    94.8     1.9

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 170) 34182 WAPELLO5 - 34553 WAPELO2Y CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 296  : 34182 WAPELLO5 - 34552 WAPELO1Y CKT: 1   147.9   147.6   131.0   131.0   112.9   112.6     0.3
  SINGLE 337  : 34206 WAPELLO8 - 34552 WAPELO1Y CKT: 1   147.9   147.6   131.0   131.0   112.9   112.6     0.3
  WAPELLO T1  : ** MULTIPLE CONTINGENCY **               147.9   147.6   131.0   131.0   112.9   112.6     0.3
              : 34552 WAPELO1Y - 34182 WAPELLO5 CKT: 1
              : 34552 WAPELO1Y - 34206 WAPELLO8 CKT: 1

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 171) 34206 WAPELLO8 - 34553 WAPELO2Y CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
```

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  SINGLE 296  : 34182 WAPELLO5 - 34552 WAPELO1Y CKT: 1   147.3   147.0   131.0   131.0   112.5   112.2     0.3
  SINGLE 337  : 34206 WAPELLO8 - 34552 WAPELO1Y CKT: 1   147.3   147.0   131.0   131.0   112.5   112.2     0.3
  WAPELLO T1  : ** MULTIPLE CONTINGENCY **               147.3   147.0   131.0   131.0   112.5   112.2     0.3
              : 34552 WAPELO1Y - 34182 WAPELLO5 CKT: 1
              : 34552 WAPELO1Y - 34206 WAPELLO8 CKT: 1

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 172) 34182 WAPELLO5 - 34552 WAPELO1Y CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------
  SINGLE 297  : 34182 WAPELLO5 - 34553 WAPELO2Y CKT: 2   147.7   147.4   131.0   131.0   112.7   112.5     0.2
  SINGLE 338  : 34206 WAPELLO8 - 34553 WAPELO2Y CKT: 2   147.7   147.4   131.0   131.0   112.7   112.5     0.2
  WAPELLO T2  : ** MULTIPLE CONTINGENCY **               147.7   147.4   131.0   131.0   112.7   112.5     0.2
              : 34553 WAPELO2Y - 34182 WAPELLO5 CKT: 2
              : 34553 WAPELO2Y - 34206 WAPELLO8 CKT: 2

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 173) 34206 WAPELLO8 - 34552 WAPELO1Y CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------
  SINGLE 297  : 34182 WAPELLO5 - 34553 WAPELO2Y CKT: 2   147.1   146.8   131.0   131.0   112.3   112.1     0.2
  SINGLE 338  : 34206 WAPELLO8 - 34553 WAPELO2Y CKT: 2   147.1   146.8   131.0   131.0   112.3   112.1     0.2
  WAPELLO T2  : ** MULTIPLE CONTINGENCY **               147.1   146.8   131.0   131.0   112.3   112.1     0.2
              : 34553 WAPELO2Y - 34182 WAPELLO5 CKT: 2
              : 34553 WAPELO2Y - 34206 WAPELLO8 CKT: 2

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 174) 34178 HENRYCO5 - 96439 2HENRY   CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------
  SINGLE 298  : 34183 JEFF   5 - 34560 JEFFCO Y CKT: 1    52.1    52.1    56.0    56.0    93.0    93.0     0.0
  SINGLE 316  : 34194 JEFF   8 - 34560 JEFFCO Y CKT: 1    52.1    52.1    56.0    56.0    93.0    93.0     0.0

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 175) 34573 N CENT8  - 34622 ISW TAP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------
  SINGLE 325  : 34200 CNTRVIL8 - 34573 N CENT8  CKT: 1    56.3    56.3    39.0    39.0   140.7   140.7     0.0

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 176) 34231 MT LAKE8 - 34281 MTLAKET8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------
  SINGLE 372  : 34225 HERONLK8 - 62801 SSTORDN8 CKT: 1    32.9    32.8    36.0    36.0    91.5    91.1     0.4

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 177) 60784 BELPLAN8 - 62675 ASSMPTN8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    24.8    24.6    19.3    19.3   127.9   127.2     0.7
  SINGLE 1132 : 60194 CARVRCO7 - 60243 SCOTTAP7 CKT: 1    22.9    22.8    19.3    19.3   116.8   116.3     0.5
  CAR-WWK/AGA7: ** MULTIPLE CONTINGENCY **                22.2    22.1    19.3    19.3   113.2   112.7     0.5
              : 60194 CARVRCO7 - 60277 WWACNIA7 CKT: 1
              : 60931 CARVRCO8 - 62676 AUGUSTA8 CKT: 1
  SCO-SSK/CAR7: ** MULTIPLE CONTINGENCY **                21.9    21.8    19.3    19.3   111.3   110.8     0.5
              : 60244 SCOTTCO7 - 62975 SHAKOPE7 CKT: 1
              : 60244 SCOTTCO7 - 60243 SCOTTAP7 CKT: 1
              : 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1
              : 60243 SCOTTAP7 - 62666 GLNDALE7 CKT: 1
  SINGLE 3195 : 60931 CARVRCO8 - 62676 AUGUSTA8 CKT: 1    21.6    21.5    19.3    19.3   109.7   109.3     0.4
  SINGLE 475  : 34300 MONTGMY8 - 34301 NEWPRAG8 CKT: 1    21.4    21.4    19.3    19.3   108.8   108.4     0.4
  715       2 : ** MULTIPLE CONTINGENCY **                20.9    20.8    19.3    19.3   106.7   106.2     0.5
              : 62666 GLNDALE7 - 60243 SCOTTAP7 CKT: 1
              : 60242 SAVAGE 7 - 62668 EGLCKTP7 CKT: 1
              : 62666 GLNDALE7 - 62672 GLNDALE8 CKT: 1
              : 60243 SCOTTAP7 - 60244 SCOTTCO7 CKT: 1
              : 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1
              : 60194 CARVRCO7 - 60931 CARVRCO8 CKT: 1
```

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             : 60190 BLK DOG7 - 60242 SAVAGE 7 CKT: 1
             : 62668 EGLCKTP7 - 62975 SHAKOPE7 CKT: 1
             : 62975 SHAKOPE7 - 60244 SCOTTCO7 CKT: 1
             : 60244 SCOTTCO7 - 60890 SCOTTCO8 CKT: 2
SINGLE 474   : 34299 WASECAJ8 - 62876 FRLK TP8 CKT: 1    20.3    20.3    19.3    19.3   103.2   102.9     0.3
SINGLE 2838  : 34300 MONTGMY8 - 34310 MONTGG19 CKT: 1    20.0    20.0    19.3    19.3   101.8   101.5     0.3
SINGLE 1276  : 60265 LOON TP7 - 60830 EASTWD18 CKT: P    20.0    19.9    19.3    19.3   101.7   101.2     0.5
715        4 : ** MULTIPLE CONTINGENCY **                19.9    19.8    19.3    19.3   101.6   101.1     0.5
             : 62666 GLNDALE7 - 60243 SCOTTAP7 CKT: 1
             : 62666 GLNDALE7 - 62672 GLNDALE8 CKT: 1
             : 60243 SCOTTAP7 - 60244 SCOTTCO7 CKT: 1
             : 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1
             : 60194 CARVRCO7 - 60931 CARVRCO8 CKT: 1
SINGLE 1129  : 60193 BLUE LK7 - 60215 HYLNDLK7 CKT: 1    19.6    19.6    19.3    19.3   101.0   100.6     0.4
EDP-WSG/WSG7: ** MULTIPLE CONTINGENCY **                  19.6    19.5    19.3    19.3   100.9   100.5     0.4
             : 60263 EDEN PR7 - 60256 WSTGATE7 CKT: 1
             : 60263 EDEN PR7 - 60256 WSTGATE7 CKT: 2
SINGLE 477   : 34301 NEWPRAG8 - 60936 NPRAG2T8 CKT: 1    19.7    19.7    19.3    19.3   100.3    99.9     0.4
SINGLE 1454  : 60783 JORDAN 8 - 60936 NPRAG2T8 CKT: 1    19.6    19.6    19.3    19.3   100.2    99.9     0.3
SINGLE 476   : 34300 MONTGMY8 - 62876 FRLK TP8 CKT: 1    19.7    19.6    19.3    19.3    99.9    99.5     0.4
SINGLE 1249  : 60244 SCOTTCO7 - 60890 SCOTTCO8 CKT: 1    19.3    19.3    19.3    19.3    98.8    98.5     0.3
SINGLE 1275  : 60264 LOON LK7 - 61976 LOON LK8 CKT: 1    19.4    19.3    19.3    19.3    98.4    98.0     0.4
SINGLE 2968  : 60264 LOON LK7 -  6999 WTV1     CKT: 1    19.4    19.3    19.3    19.3    98.4    98.0     0.4
SINGLE 1250  : 60244 SCOTTCO7 - 60890 SCOTTCO8 CKT: 2    19.2    19.2    19.3    19.3    98.1    97.8     0.3
715        1 : ** MULTIPLE CONTINGENCY **                19.0    19.0    19.3    19.3    97.2    96.9     0.3
             : 60200 BLK DG27 - 62666 GLNDALE7 CKT: 1
             : 60190 BLK DOG7 - 60242 SAVAGE 7 CKT: 1
             : 62666 GLNDALE7 - 62672 GLNDALE8 CKT: 2
             : 60242 SAVAGE 7 - 62668 EGLCKTP7 CKT: 1
             : 62668 EGLCKTP7 - 62975 SHAKOPE7 CKT: 1
             : 62975 SHAKOPE7 - 60244 SCOTTCO7 CKT: 1
             : 60244 SCOTTCO7 - 60890 SCOTTCO8 CKT: 2
PKL-DKN/ECK3: ** MULTIPLE CONTINGENCY **                  19.0    19.0    19.3    19.3    97.0    96.6     0.4
             : 60233 PARKERS3 - 60270 MPLEGV13 CKT: 1
             : 60233 PARKERS3 - 60114 ELM CRK3 CKT: 1
009    5     : ** MULTIPLE CONTINGENCY **                19.0    19.0    19.3    19.3    96.9    96.6     0.3
             : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
             : 63030 DICKNSN3 - 60270 MPLEGV13 CKT: 1
             : 60270 MPLEGV13 - 60233 PARKERS3 CKT: 1
SINGLE 1531  : 60893 DEEPHVN8 - 60894 WSTGAT28 CKT: 1    18.9    18.9    19.3    19.3    96.5    96.2     0.3
SINGLE 1269  : 60256 WSTGATE7 - 60894 WSTGAT28 CKT: 1    18.9    18.9    19.3    19.3    96.5    96.2     0.3
715        5 : ** MULTIPLE CONTINGENCY **                18.9    18.8    19.3    19.3    96.3    96.0     0.3
             : 60190 BLK DOG7 - 60242 SAVAGE 7 CKT: 1
             : 60242 SAVAGE 7 - 62668 EGLCKTP7 CKT: 1
             : 62668 EGLCKTP7 - 62975 SHAKOPE7 CKT: 1
             : 62975 SHAKOPE7 - 60244 SCOTTCO7 CKT: 1
             : 60244 SCOTTCO7 - 60890 SCOTTCO8 CKT: 2
SINGLE 1248  : 60243 SCOTTAP7 - 60244 SCOTTCO7 CKT: 1    18.6    18.5    19.3    19.3    94.8    94.5     0.3
SINGLE 2953  : 60215 HYLNDLK7 - 60261 DEANLAK7 CKT: 1    18.3    18.3    19.3    19.3    93.8    93.4     0.4
SINGLE 1523  : 60884 YNGAMER8 - 60931 CARVRCO8 CKT: 1    18.4    18.3    19.3    19.3    93.5    93.1     0.4
HYL-BLL/DLK7: ** MULTIPLE CONTINGENCY **                  18.3    18.2    19.3    19.3    93.5    93.1     0.4
             : 60215 HYLNDLK7 - 60193 BLUE LK7 CKT: 1
             : 60215 HYLNDLK7 - 60261 DEANLAK7 CKT: 1
SINGLE 1221  : 60233 PARKERS3 - 60270 MPLEGV13 CKT: 1    18.1    18.0    19.3    19.3    91.9    91.5     0.4
SINGLE 1278  : 60270 MPLEGV13 - 63030 DICKNSN3 CKT: 1    18.0    18.0    19.3    19.3    91.8    91.5     0.3
009    8     : ** MULTIPLE CONTINGENCY **                18.0    17.9    19.3    19.3    91.7    91.3     0.4
             : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
             : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
             : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
             : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
             : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
             : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
             : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
```

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  SINGLE 1525 : 60886 YAMTAP 8 - 60888 GLNCOTP8 CKT: 1    18.0    18.0    19.3    19.3    91.5    91.1     0.4
  SINGLE 1526 : 60886 YAMTAP 8 - 60931 CARVRCO8 CKT: 1    18.0    18.0    19.3    19.3    91.5    91.1     0.4
  CNC-DKN/SHC3: ** MULTIPLE CONTINGENCY **                17.9    17.9    19.3    19.3    91.3    90.9     0.4
              : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1
              : 60202 COON CK3 - 60272 MPLEGV23 CKT: 1
  SINGLE 1265 : 60256 WSTGATE7 - 60257 BLUFFCK7 CKT: 1    17.9    17.8    19.3    19.3    91.3    90.9     0.4
  009   4     : ** MULTIPLE CONTINGENCY **                18.0    17.9    19.3    19.3    91.3    91.0     0.3
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
              : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
              : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
              : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
              : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
  CNC-KOL/TER3: ** MULTIPLE CONTINGENCY **                17.9    17.8    19.3    19.3    91.0    90.6     0.4
              : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
              : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
  022       1 : ** MULTIPLE CONTINGENCY **                17.8    17.8    19.3    19.3    91.0    90.6     0.4
              : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
              : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
              : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
              : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
              : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
              : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
              : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
              : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
              : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
              : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
  022       3 : ** MULTIPLE CONTINGENCY **                17.9    17.8    19.3    19.3    91.0    90.6     0.4
              : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
              : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
              : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
              : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
              : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
              : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
  705       3 : ** MULTIPLE CONTINGENCY **                17.8    17.7    19.3    19.3    91.0    90.7     0.3
              : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
              : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 1
  SINGLE 1120 : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C    17.8    17.8    19.3    19.3    90.9    90.5     0.4
  SINGLE 1121 : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1    17.8    17.7    19.3    19.3    90.8    90.5     0.3
  810   C1    : ** MULTIPLE CONTINGENCY **                17.8    17.7    19.3    19.3    90.8    90.5     0.3
              : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1
              : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C
  SINGLE 2969 : 60265 LOON TP7 -  6999 WTV1     CKT: 1    17.8   .....    19.3   .....    90.3   .....   *NEW*
  SINGLE 1456 : 60785 NPRAG T8 - 61978 NEW PRAG CKT: 1    17.7   .....    19.3   .....    90.2   .....   *NEW*
  SINGLE 1158 : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1    17.8   .....    19.3   .....    90.2   .....   *NEW*
  SINGLE 3181 : 60885 MOUND  8 - 63021 ST BONI8 CKT: 1    17.8   .....    19.3   .....    90.1   .....   *NEW*

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 178) 34643 GRRIVER8 - 34644 ELLSTNR8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 686  : 34585 LORIMRR8 - 34588 SLAKEN 8 CKT: 1    16.8    16.5    12.0    12.0   137.6   134.6     3.0
  SINGLE 685  : 34585 LORIMRR8 - 34586 LORIMOR8 CKT: 1    16.8    16.4    12.0    12.0   137.3   134.3     3.0
  SINGLE 687  : 34586 LORIMOR8 - 34587 MURRAY 8 CKT: 1    16.7    16.4    12.0    12.0   136.9   134.0     2.9
  SINGLE 2823 : 34189 OTTUMWA5 - 34146 OTTUMW1G CKT: 1    12.0    11.8    12.0    12.0    99.9    98.2     1.7

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 179) 34650 ARISTAP8 - 34653 CRESTN8_ CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 686  : 34585 LORIMRR8 - 34588 SLAKEN 8 CKT: 1    24.2    23.8    24.0    24.0   100.0    98.4     1.6
  SINGLE 685  : 34585 LORIMRR8 - 34586 LORIMOR8 CKT: 1    24.1    23.8    24.0    24.0    99.9    98.3     1.6
  SINGLE 687  : 34586 LORIMOR8 - 34587 MURRAY 8 CKT: 1    24.1    23.7    24.0    24.0    99.7    98.2     1.5

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 180) 34592 SLAKES 8 - 66569 CRESTON8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 690  : 34588 SLAKEN 8 - 34592 SLAKES 8 CKT: 1    87.7    87.7    72.0    72.0   119.8   119.8     0.0

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 181) 34653 CRESTN8_ - 34654 ECRESTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 690  : 34588 SLAKEN 8 - 34592 SLAKES 8 CKT: 1    37.3    37.1    35.0    35.0   106.8   106.2     0.6

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 182) 60108 WILMART3 - 60192 BLUE LK3 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1  1181.7  1173.6  1195.0  1195.0    98.9    98.2     0.7
  SINGLE 2926 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1  1154.3  1146.1  1195.0  1195.0    96.4    95.7     0.7
  SINGLE 2925 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1  1154.1  1145.8  1195.0  1195.0    96.4    95.7     0.7
  SINGLE 2920 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1  1134.3  1125.6  1195.0  1195.0    94.7    93.9     0.8
  SINGLE 2937 : 60186 AS KING3 - 60006 KING 31G CKT: 1  1124.6  1115.9  1195.0  1195.0    93.9    93.1     0.8
  SINGLE 1276 : 60265 LOON TP7 - 60830 EASTWD18 CKT: P  1123.1  1113.2  1195.0  1195.0    93.7    92.9     0.8
  SINGLE 2900 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1  1116.2  1107.4  1195.0  1195.0    93.2    92.4     0.8
  SINGLE 2901 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1  1113.8  1105.0  1195.0  1195.0    93.0    92.2     0.8
  SINGLE 944  : 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1  1109.7  1100.9  1195.0  1195.0    92.6    91.9     0.7
  SINGLE 1142 : 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1  1109.7  1100.7  1195.0  1195.0    92.6    91.9     0.7
  SINGLE 964  : 60110 WILMART7 - 60194 CARVRCO7 CKT: 1  1097.3  1088.1  1195.0  1195.0    91.6    90.8     0.8
  SINGLE 952  : 60107 W FARIB7 - 60265 LOON TP7 CKT: C  1090.0  1080.6  1195.0  1195.0    91.0    90.2     0.8
  PKL-DKN/ECK3: ** MULTIPLE CONTINGENCY **              1078.4   .....  1195.0   .....    90.0   .....   *NEW*
              : 60233 PARKERS3 - 60270 MPLEGV13 CKT: 1
              : 60233 PARKERS3 - 60114 ELM CRK3 CKT: 1
  009   5     : ** MULTIPLE CONTINGENCY **              1078.4   .....  1195.0   .....    90.0   .....   *NEW*
              : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
              : 63030 DICKNSN3 - 60270 MPLEGV13 CKT: 1
              : 60270 MPLEGV13 - 60233 PARKERS3 CKT: 1

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 183) 60160 SHERCO 3 - 60000 SHERC31G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  670     1   : ** MULTIPLE CONTINGENCY **               731.7   731.5   800.0   800.0    91.5    91.4     0.1
              : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
              : 63031 BUNKER 3 - 60160 SHERCO 3 CKT: 1
              : 63031 BUNKER 3 - 60202 COON CK3 CKT: 1
              : 60202 COON CK3 - 61487 CNCMID2Y CKT: 1
              : 61487 CNCMID2Y - 60203 COON CK7 CKT: 1
              : 61487 CNCMID2Y - 60655 CNCTER29 CKT: 1
              : 63046 BUNKER 4 - 63031 BUNKER 3 CKT: 1
  SINGLE 2920 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1   729.5   729.3   800.0   800.0    91.2    91.2     0.0
  SHC-CNC/BUL3: ** MULTIPLE CONTINGENCY **               727.8   727.8   800.0   800.0    91.0    91.0     0.0
              : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
              : 60160 SHERCO 3 - 63031 BUNKER 3 CKT: 1
  CNC-SHC/BUL3: ** MULTIPLE CONTINGENCY **               727.1   727.1   800.0   800.0    90.9    90.9     0.0
              : 60202 COON CK3 - 60160 SHERCO 3 CKT: 1
              : 60202 COON CK3 - 63031 BUNKER 3 CKT: 1
  009   1     : ** MULTIPLE CONTINGENCY **               725.7   725.7   800.0   800.0    90.7    90.7     0.0
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
              : 60151 MNTCELO3 - 60160 SHERCO 3 CKT: 1
              : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
              : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
              : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
  SINGLE 944  : 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1   724.6   724.4   800.0   800.0    90.6    90.6     0.0
  SINGLE 1142 : 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1   723.6   723.4   800.0   800.0    90.5    90.4     0.1
  670     2   : ** MULTIPLE CONTINGENCY **               724.0   723.8   800.0   800.0    90.5    90.5     0.0
              : 63031 BUNKER 3 - 60160 SHERCO 3 CKT: 1
              : 63031 BUNKER 3 - 60202 COON CK3 CKT: 1
              : 63046 BUNKER 4 - 63031 BUNKER 3 CKT: 1
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700    1    : ** MULTIPLE CONTINGENCY **                724.1   723.9   800.0   800.0    90.5    90.5     0.0
            : 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1
            : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
            : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1
SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1   723.1   723.0   800.0   800.0    90.4    90.4     0.0
BLL-EDP/PKL3: ** MULTIPLE CONTINGENCY **                723.1   723.1   800.0   800.0    90.4    90.4     0.0
            : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
            : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1
670     3   : ** MULTIPLE CONTINGENCY **                723.3   723.3   800.0   800.0    90.4    90.4     0.0
            : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61487 CNCMID2Y CKT: 1
            : 61487 CNCMID2Y - 60203 COON CK7 CKT: 1
            : 61487 CNCMID2Y - 60655 CNCTER29 CKT: 1
BLL-PRI/IVH3: ** MULTIPLE CONTINGENCY **                723.6   723.4   800.0   800.0    90.4    90.4     0.0
            : 60192 BLUE LK3 - 60105 PR ISLD3 CKT: 1
            : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
705       1 : ** MULTIPLE CONTINGENCY **                723.6   723.4   800.0   800.0    90.4    90.4     0.0
            : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1
            : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
            : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 1
SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1   722.0   721.7   800.0   800.0    90.3    90.2     0.1
SINGLE 2961 : 60240 RIVRSID7 - 60008 RIVRS78G CKT: 1   722.5   722.4   800.0   800.0    90.3    90.3     0.0
SINGLE 1077 : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1   722.4   722.4   800.0   800.0    90.3    90.3     0.0
SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1   722.2   722.1   800.0   800.0    90.3    90.3     0.0
009   4     : ** MULTIPLE CONTINGENCY **                722.8   722.7   800.0   800.0    90.3    90.3     0.0
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
009   8     : ** MULTIPLE CONTINGENCY **                722.3   722.3   800.0   800.0    90.3    90.3     0.0
            : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 2960 : 60240 RIVRSID7 - 60007 RIVRS76G CKT: 1   721.3   721.2   800.0   800.0    90.2    90.2     0.0
IVH-BLL/RRK3: ** MULTIPLE CONTINGENCY **                721.3   721.2   800.0   800.0    90.2    90.1     0.1
            : 60217 INVRHLS3 - 60192 BLUE LK3 CKT: 1
            : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1
EDA-EDP/NMC7: ** MULTIPLE CONTINGENCY **                721.8   721.7   800.0   800.0    90.2    90.2     0.0
            : 60208 EDINA  7 - 60263 EDEN PR7 CKT: 1
            : 60208 EDINA  7 - 60280 NINE MI7 CKT: 1
SINGLE 2926 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1   721.4   721.2   800.0   800.0    90.2    90.2     0.0
SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   721.2   721.0   800.0   800.0    90.2    90.1     0.1
765         : ** MULTIPLE CONTINGENCY **                721.9   721.8   800.0   800.0    90.2    90.2     0.0
            : 63048 RUSH CY4 - 60237 REDROCK4 CKT: 1
            : 60236 REDROCK3 - 60237 REDROCK4 CKT: 1
            : 60361 ROCKCR 4 - 63048 RUSH CY4 CKT: 1
SINGLE 1152 : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1   720.5   720.5   800.0   800.0    90.1    90.1     0.0
SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1   720.4   720.3   800.0   800.0    90.1    90.0     0.1
SINGLE 1126 : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1   720.8   720.8   800.0   800.0    90.1    90.1     0.0
SINGLE 1154 : 60202 COON CK3 - 60272 MPLEGV23 CKT: 1   720.7   720.7   800.0   800.0    90.1    90.1     0.0
CNC-DKN/SHC3: ** MULTIPLE CONTINGENCY **                720.5   720.4   800.0   800.0    90.1    90.0     0.1
            : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1
            : 60202 COON CK3 - 60272 MPLEGV23 CKT: 1
SINGLE 1034 : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1   720.9   720.8   800.0   800.0    90.1    90.1     0.0
KOL-CNC/TER3: ** MULTIPLE CONTINGENCY **                720.6   720.6   800.0   800.0    90.1    90.1     0.0
            : 60221 KOLMNLK3 - 60202 COON CK3 CKT: 1
            : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
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SINGLE 1191 : 60213 GOPHER 7 - 60252 TERMINL7 CKT: 1   720.5   720.5   800.0   800.0    90.1    90.1     0.0
PRI-RRK/RRK3: ** MULTIPLE CONTINGENCY **               721.0   720.8   800.0   800.0    90.1    90.1     0.0
            : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 1
            : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
PRI-BLL/RRK3: ** MULTIPLE CONTINGENCY **               721.1   721.0   800.0   800.0    90.1    90.1     0.0
            : 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1
            : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 1
675         : ** MULTIPLE CONTINGENCY **               720.9   720.8   800.0   800.0    90.1    90.1     0.0
            : 60142 BENTON 3 - 63045 BENTON 4 CKT: 1
            : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1
            : 60142 BENTON 3 - 63045 BENTON 4 CKT: 2
680         : ** MULTIPLE CONTINGENCY **               720.4   720.2   800.0   800.0    90.1    90.0     0.1
            : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
            : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1   720.4   720.3   800.0   800.0    90.1    90.0     0.1
SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1   720.8   720.6   800.0   800.0    90.1    90.1     0.0
705       3 : ** MULTIPLE CONTINGENCY **               720.7   720.6   800.0   800.0    90.1    90.1     0.0
            : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
            : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 1
SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1   720.1   720.0   800.0   800.0    90.0    90.0     0.0
SINGLE 1166 : 60203 COON CK7 - 62090 PRKWOOD7 CKT: 1   720.3   720.2   800.0   800.0    90.0    90.0     0.0
SINGLE 2023 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1   720.1   .....   800.0   .....    90.0   .....   *NEW*
PKL-CDR/BCR7: ** MULTIPLE CONTINGENCY **               720.3   720.3   800.0   800.0    90.0    90.0     0.0
            : 60234 PARKERS7 - 60346 CEDARLK7 CKT: P
            : 60234 PARKERS7 - 60259 BASCRK 7 CKT: 1
SINGLE 2037 : 63031 BUNKER 3 - 63046 BUNKER 4 CKT: 1   720.2   720.1   800.0   800.0    90.0    90.0     0.0
SINGLE 2053 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1   720.2   720.1   800.0   800.0    90.0    90.0     0.0
SINGLE 2101 : 63219 GRANTCO7 - 63220 ELBOWLK7 CKT: 1   720.3   720.2   800.0   800.0    90.0    90.0     0.0
SINGLE 2919 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1   720.0   .....   800.0   .....    90.0   .....   *NEW*
SINGLE 1057 : 60151 MNTCELO3 - 60152 MNTCELO4 CKT: 1   720.0   .....   800.0   .....    90.0   .....   *NEW*
SINGLE 2939 : 60190 BLK DOG7 - 60011 BLK D75G CKT: 1   720.1   .....   800.0   .....    90.0   .....   *NEW*
SINGLE 2950 : 60214 HIBRDGE7 - 60009 HIBRD75G CKT: 1   720.2   720.1   800.0   800.0    90.0    90.0     0.0
SINGLE 2951 : 60214 HIBRDGE7 - 60010 HIBRD76G CKT: 1   720.4   720.2   800.0   800.0    90.0    90.0     0.0
022       8 : ** MULTIPLE CONTINGENCY **               720.3   720.2   800.0   800.0    90.0    90.0     0.0
            : 60186 AS KING3 - 60221 KOLMNLK3 CKT: 1
            : 60199 CHIS CO3 - 60221 KOLMNLK3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 2
SINGLE 1244 : 60240 RIVRSID7 - 60268 BRKLNPK7 CKT: 1   720.2   720.2   800.0   800.0    90.0    90.0     0.0
660         : ** MULTIPLE CONTINGENCY **               720.1   720.0   800.0   800.0    90.0    90.0     0.0
            : 63043 ELK RIV4 - 63046 BUNKER 4 CKT: 1
            : 63043 ELK RIV4 - 62134 ELKR14S8 CKT: 2
SINGLE 1366 : 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C   720.0   .....   800.0   .....    90.0   .....   *NEW*
SINGLE 1128 : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1   720.4   720.3   800.0   800.0    90.0    90.0     0.0
SINGLE 948  : 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1   720.4   720.3   800.0   800.0    90.0    90.0     0.0
SINGLE 1781 : 62134 ELKR14S8 - 63043 ELK RIV4 CKT: 1   720.1   .....   800.0   .....    90.0   .....   *NEW*
795         : ** MULTIPLE CONTINGENCY **               720.2   720.1   800.0   800.0    90.0    90.0     0.0
            : 66550 GRANITF4 - 60150 MNVLTAP4 CKT: 1
            : 60148 MINVALY7 - 60149 MINVALT4 CKT: C
            : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1
            : 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1
            : 63054 PANTHER4 - 60742 PANTHER8 CKT: 1
SINGLE 1159 : 60203 COON CK7 - 60253 TWIN LK7 CKT: 1   .....   720.0   .....   800.0   .....    90.0  *ELIM*
SINGLE 1161 : 60203 COON CK7 - 60268 BRKLNPK7 CKT: 1   .....   720.1   .....   800.0   .....    90.0  *ELIM*
SINGLE 1163 : 60203 COON CK7 - 61488 CNCMID1Y CKT: 1   .....   720.0   .....   800.0   .....    90.0  *ELIM*
SINGLE 1259 : 60252 TERMINL7 - 61491 TERMID2Y CKT: 1   .....   720.1   .....   800.0   .....    90.0  *ELIM*
SINGLE 1260 : 60252 TERMINL7 - 61492 TERMID1Y CKT: 1   .....   720.0   .....   800.0   .....    90.0  *ELIM*

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 184) 60190 BLK DOG7 - 60012 BLK D76G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   122.3   122.3   133.0   133.0    92.0    92.0     0.0
SINGLE 1129 : 60193 BLUE LK7 - 60215 HYLNDLK7 CKT: 1   122.3   122.2   133.0   133.0    92.0    91.9     0.1
SINGLE 1271 : 60258 WILSON 7 - 60260 BLOOMGT7 CKT: 1   122.3   122.3   133.0   133.0    92.0    92.0     0.0
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 SINGLE 2939 : 60190 BLK DOG7 - 60011 BLK D75G CKT: 1   122.3   122.3   133.0   133.0    92.0    92.0     0.0
 SINGLE 2942 : 60200 BLK DG27 - 60014 BLK D74G CKT: 1   122.3   122.3   133.0   133.0    92.0    92.0     0.0
 BLL-EDP/PKL3: ** MULTIPLE CONTINGENCY **               122.3   122.3   133.0   133.0    92.0    92.0     0.0
             : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
             : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1
 700    1    : ** MULTIPLE CONTINGENCY **               122.3   122.3   133.0   133.0    92.0    92.0     0.0
             : 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1
             : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
             : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1
 705       1 : ** MULTIPLE CONTINGENCY **               122.3   122.3   133.0   133.0    92.0    92.0     0.0
             : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1
             : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
             : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 1
 SINGLE 2941 : 60200 BLK DG27 - 60013 BLK D73G CKT: 1   121.5   121.3   133.0   133.0    91.4    91.2     0.2
 705       3 : ** MULTIPLE CONTINGENCY **               121.5   121.3   133.0   133.0    91.4    91.2     0.2
             : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
             : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 1
 SINGLE 944  : 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1   121.2   121.0   133.0   133.0    91.2    91.0     0.2
 009   2     : ** MULTIPLE CONTINGENCY **               121.1   120.9   133.0   133.0    91.0    90.9     0.1
             : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
             : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
             : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1
             : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
             : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
             : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
             : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
 SINGLE 1142 : 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1   120.8   120.5   133.0   133.0    90.8    90.6     0.2
 SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1   120.7   120.4   133.0   133.0    90.8    90.5     0.3
 SHC-CNC/ECK3: ** MULTIPLE CONTINGENCY **               120.3   120.1   133.0   133.0    90.5    90.3     0.2
             : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
             : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1
 SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   120.4   120.2   133.0   133.0    90.5    90.4     0.1
 SINGLE 1176 : 60208 EDINA  7 - 60263 EDEN PR7 CKT: 1   120.2   120.1   133.0   133.0    90.4    90.3     0.1
 IVH-BLL/RRK3: ** MULTIPLE CONTINGENCY **               119.8   .....   133.0   .....    90.1   .....   *NEW*
             : 60217 INVRHLS3 - 60192 BLUE LK3 CKT: 1
             : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1
 BLL-PRI/IVH3: ** MULTIPLE CONTINGENCY **               119.7   .....   133.0   .....    90.0   .....   *NEW*
             : 60192 BLUE LK3 - 60105 PR ISLD3 CKT: 1
             : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1

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 185) 60291 INOPUMP7 - 60292 IRONRIV7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 944  : 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1    76.2    76.1    85.0    85.0    91.4    91.0     0.4
 SINGLE 1142 : 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1    76.2    76.0    85.0    85.0    91.3    90.9     0.4

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 186) 60295 BAYFRNT7 - 69105 PILSEN7  CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 944  : 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1    73.3    73.1    80.0    80.0    92.7    92.3     0.4
 SINGLE 1142 : 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1    73.3    73.1    80.0    80.0    92.7    92.2     0.5

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 187) 60786 DUNDAS 8 - 60787 NOFIELD8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    70.0    69.7    48.0    48.0   156.3   155.4     0.9
 SINGLE 1465 : 60791 FARIBLT8 - 60794 NRSTRND8 CKT: P    48.5    48.4    48.0    48.0   105.9   105.6     0.3
 SINGLE 3118 : 60794 NRSTRND8 - 62389 KENYON 8 CKT: 1    48.0    47.9    48.0    48.0   104.7   104.4     0.3
 SINGLE 1699 : 61952 S FARIB5 - 61964 OWATNNA5 CKT: 1    47.7    47.5    48.0    48.0   104.4   103.9     0.5
 SINGLE 955  : 60107 W FARIB7 - 61952 S FARIB5 CKT: 1    47.7    47.5    48.0    48.0   104.3   103.9     0.4
 SINGLE 3120 : 60797 KENYNTP8 - 62389 KENYON 8 CKT: 1    47.7    47.6    48.0    48.0   104.1   103.8     0.3
 SINGLE 947  : 60105 PR ISLD3 - 60106 PR ISLD5 CKT: 1    46.6    46.5    48.0    48.0   104.0   103.7     0.3
 SINGLE 2902 : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1    46.6    46.5    48.0    48.0   104.0   103.7     0.3
```

SPC-PRI/CTF5:	** MULTIPLE CONTINGENCY **	45.9	45.8	48.0	48.0	102.4	102.2	0.2
	: 63071 SPRNGCK5 - 60106 PR ISLD5 CKT: 1							
	: 63071 SPRNGCK5 - 60103 CANNFLS5 CKT: 1							
740 1	: ** MULTIPLE CONTINGENCY **	45.9	45.8	48.0	48.0	102.4	102.2	0.2
	: 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1							
	: 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1							
	: 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1							
700 1	: ** MULTIPLE CONTINGENCY **	46.5	46.4	48.0	48.0	101.8	101.5	0.3
	: 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1							
	: 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1							
	: 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1							
SINGLE 1468	: 60796 KENYON 8 - 60797 KENYNTP8 CKT: 1	46.7	46.6	48.0	48.0	101.7	101.4	0.3
IVH-BLL/RRK3:	** MULTIPLE CONTINGENCY **	46.5	46.3	48.0	48.0	101.6	101.3	0.3
	: 60217 INVRHLS3 - 60192 BLUE LK3 CKT: 1							
	: 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1							
SINGLE 1469	: 60796 KENYON 8 - 60819 CHERYTP8 CKT: 1	46.2	46.0	48.0	48.0	100.5	100.2	0.3
SINGLE 1459	: 60787 NOFIELD8 - 60801 CNFLSTR8 CKT: 1	44.4	44.4	48.0	48.0	100.3	100.1	0.2
SINGLE 1197	: 60217 INVRHLS3 - 60218 INVRHLS7 CKT: 1	45.8	45.7	48.0	48.0	100.2	99.9	0.3
SINGLE 1480	: 60818 ZUMBRTA8 - 60819 CHERYTP8 CKT: 1	45.7	45.6	48.0	48.0	99.5	99.2	0.3
SINGLE 2927	: 60160 SHERCO 3 - 60002 SHERC33G CKT: 1	45.6	45.5	48.0	48.0	99.5	99.2	0.3
SINGLE 3188	: 60905 FRMNGTN8 - 62259 LKMARN 8 CKT: 1	44.1	43.9	48.0	48.0	99.3	99.0	0.3
SINGLE 946	: 60104 CANNFLS7 - 60801 CNFLSTR8 CKT: 1	44.1	44.0	48.0	48.0	98.8	98.6	0.2
SINGLE 1698	: 61948 BYRON 5 - 61964 OWATNNA5 CKT: 1	45.0	44.8	48.0	48.0	98.1	97.6	0.5
BYN-WOW/KAN5:	** MULTIPLE CONTINGENCY **	44.9	44.6	48.0	48.0	97.9	97.3	0.6
	: 61948 BYRON 5 - 61964 OWATNNA5 CKT: 1							
	: 61161 BYRON 8 - 60799 KASSON 8 CKT: 1							
SINGLE 2926	: 60160 SHERCO 3 - 60001 SHERC32G CKT: 1	44.8	44.7	48.0	48.0	97.7	97.4	0.3
SINGLE 2925	: 60160 SHERCO 3 - 60000 SHERC31G CKT: 1	44.8	44.7	48.0	48.0	97.7	97.3	0.4
SINGLE 2937	: 60186 AS KING3 - 60006 KING 31G CKT: 1	44.4	44.3	48.0	48.0	96.7	96.4	0.3
SINGLE 2900	: 60105 PR ISLD3 - 60003 PR IS31G CKT: 1	44.3	44.1	48.0	48.0	96.5	96.2	0.3
SINGLE 2901	: 60105 PR ISLD3 - 60004 PR IS32G CKT: 1	44.2	44.1	48.0	48.0	96.3	96.0	0.3
SINGLE 2920	: 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1	44.2	44.0	48.0	48.0	96.3	96.0	0.3
SINGLE 3013	: 60342 WHAST 7 - 62258 WHASTNG8 CKT: 1	43.6	43.5	48.0	48.0	95.5	95.2	0.3
SINGLE 944	: 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1	43.8	43.7	48.0	48.0	95.5	95.2	0.3
SINGLE 1142	: 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1	43.8	43.7	48.0	48.0	95.5	95.2	0.3
705 1	: ** MULTIPLE CONTINGENCY **	43.7	43.6	48.0	48.0	95.4	95.1	0.3
	: 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1							
	: 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1							
	: 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 1							
SINGLE 964	: 60110 WILMART7 - 60194 CARVRCO7 CKT: 1	43.7	43.6	48.0	48.0	95.2	94.8	0.4
BLL-EDP/PKL3:	** MULTIPLE CONTINGENCY **	43.6	43.5	48.0	48.0	95.0	94.7	0.3
	: 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1							
	: 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1							
SINGLE 3115	: 60789 CIRCLTP8 - 62872 FARIBLT8 CKT: 1	43.6	43.4	48.0	48.0	94.5	94.2	0.3
SINGLE 2942	: 60200 BLK DG27 - 60014 BLK D74G CKT: 1	43.3	43.0	48.0	48.0	94.4	94.1	0.3
SINGLE 3364	: 61948 BYRON 5 - 61906 MAPLE LF CKT: 1	43.3	43.2	48.0	48.0	94.3	94.0	0.3
BLL-PRI/IVH3:	** MULTIPLE CONTINGENCY **	43.2	43.0	48.0	48.0	94.0	93.6	0.4
	: 60192 BLUE LK3 - 60105 PR ISLD3 CKT: 1							
	: 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1							
SINGLE 1200	: 60218 INVRHLS7 - 60223 KOCHREF7 CKT: 1	43.1	43.0	48.0	48.0	93.9	93.6	0.3
SINGLE 2898	: 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1	42.4	42.3	48.0	48.0	93.8	93.6	0.2
SINGLE 945	: 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1	42.4	42.3	48.0	48.0	93.8	93.6	0.2
740 2	: ** MULTIPLE CONTINGENCY **	42.4	42.3	48.0	48.0	93.8	93.6	0.2
	: 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1							
	: 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1							
SINGLE 1126	: 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1	43.0	42.8	48.0	48.0	93.5	93.1	0.4
715 4	: ** MULTIPLE CONTINGENCY **	42.8	42.7	48.0	48.0	93.5	93.2	0.3
	: 62666 GLNDALE7 - 60243 SCOTTAP7 CKT: 1							
	: 62666 GLNDALE7 - 62672 GLNDALE8 CKT: 1							
	: 60243 SCOTTAP7 - 60244 SCOTTCO7 CKT: 1							
	: 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1							
	: 60194 CARVRCO7 - 60931 CARVRCO8 CKT: 1							
SINGLE 3395	: 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1	42.8	42.7	48.0	48.0	93.3	92.9	0.4

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 SINGLE 3144 : 60817 BURNSID8 - 62387 SPRNGCK8 CKT: 1    42.7    42.6    48.0    48.0    93.2    93.0     0.2
 PRI-RRK/RRK3: ** MULTIPLE CONTINGENCY **                42.7    42.6    48.0    48.0    93.1    92.8     0.3
             : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 1
             : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
 SINGLE 2961 : 60240 RIVRSID7 - 60008 RIVRS78G CKT: 1    42.7    42.5    48.0    48.0    92.9    92.6     0.3
 022       1 : ** MULTIPLE CONTINGENCY **                42.6    42.5    48.0    48.0    92.8    92.5     0.3
             : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
             : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
             : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
             : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
             : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
             : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
             : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
             : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
             : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
             : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
 SINGLE 1202 : 60218 INVRHLS7 - 61478 INV TR1Y CKT: 1    42.6    42.4    48.0    48.0    92.8    92.5     0.3
 SINGLE 2941 : 60200 BLK DG27 - 60013 BLK D73G CKT: 1    42.5    42.4    48.0    48.0    92.8    92.5     0.3
 795         : ** MULTIPLE CONTINGENCY **                42.6    42.4    48.0    48.0    92.7    92.3     0.4
             : 66550 GRANITF4 - 60150 MNVLTAP4 CKT: 1
             : 60148 MINVALY7 - 60149 MINVALT4 CKT: C
             : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1
             : 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1
             : 63054 PANTHER4 - 60742 PANTHER8 CKT: 1
 SINGLE 1199 : 60218 INVRHLS7 - 60220 INVRGRV7 CKT: 1    42.5    42.4    48.0    48.0    92.5    92.2     0.3
 SINGLE 3153 : 60826 TRAVRSE8 - 62350 TRAVERS8 CKT: 1    42.5    42.4    48.0    48.0    92.5    92.2     0.3
 SINGLE 3233 : 60982 ALMA   8 - 68874 ALMA 8   CKT: 1    42.4    42.3    48.0    48.0    92.4    92.1     0.3
 SINGLE 2951 : 60214 HIBRDGE7 - 60010 HIBRD76G CKT: 1    42.4    42.3    48.0    48.0    92.4    92.1     0.3
 SINGLE 2919 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1    42.4    42.2    48.0    48.0    92.2    91.9     0.3

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 188) 61615 ARROWHD4 - 61624 FORBES 4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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 SINGLE 1142 : 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1   400.0   399.7   320.0   320.0   123.0   122.9     0.1

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 189) 61653 RIVERTN7 - 62180 RIVTON 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1933 : 62479 BALLCLB8 - 62487 DEER RV8 CKT: 1    75.8    75.8    56.0    56.0   135.3   135.3     0.0
 SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1    66.7    66.7    56.0    56.0   119.0   119.1    -0.1
 SINGLE 1853 : 62301 MILACA 8 - 62652 RUMRVTP8 CKT: 1    59.0    58.5    56.0    56.0   105.4   104.4     1.0
 SINGLE 1806 : 62186 THUN LK8 - 62196 BLINDLK8 CKT: 1    58.0    58.0    56.0    56.0   103.5   103.6    -0.1
 SINGLE 1142 : 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1    55.0    55.0    56.0    56.0    98.3    98.3     0.0
 SINGLE 944  : 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1    55.0    54.9    56.0    56.0    98.2    98.1     0.1
 SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1    54.7    54.7    56.0    56.0    97.7    97.6     0.1
 SINGLE 1767 : 62124 ZIMERMN8 - 62149 N ER TP8 CKT: 1    53.9    53.9    56.0    56.0    96.3    96.3     0.0
 SINGLE 1796 : 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1    53.9    53.9    56.0    56.0    96.2    96.3    -0.1
 SINGLE 1779 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1    53.9    53.9    56.0    56.0    96.2    96.3    -0.1
 SINGLE 1805 : 62185 OX LAKE8 - 62196 BLINDLK8 CKT: 1    53.2    53.2    56.0    56.0    95.1    95.1     0.0
 SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1    52.9    52.9    56.0    56.0    94.5    94.5     0.0
 SINGLE 1851 : 62297 BENTON 8 - 62300 MINDEN 8 CKT: 1    52.3    52.3    56.0    56.0    93.5    93.4     0.1
 SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1    52.0    52.0    56.0    56.0    92.9    92.9     0.0
 SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1    52.0    51.9    56.0    56.0    92.8    92.7     0.1
 SINGLE 1034 : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1    52.0    52.0    56.0    56.0    92.8    92.8     0.0
 675         : ** MULTIPLE CONTINGENCY **                52.0    52.0    56.0    56.0    92.8    92.8     0.0
             : 60142 BENTON 3 - 63045 BENTON 4 CKT: 1
             : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1
             : 60142 BENTON 3 - 63045 BENTON 4 CKT: 2
 SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    51.8    51.6    56.0    56.0    92.4    92.2     0.2
 SINGLE 1852 : 62298 MAYHWTP8 - 62300 MINDEN 8 CKT: 1    51.6    51.6    56.0    56.0    92.2    92.2     0.0
 SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    51.5    51.5    56.0    56.0    91.9    91.9     0.0
 680         : ** MULTIPLE CONTINGENCY **                51.5    51.5    56.0    56.0    91.9    92.0    -0.1
             : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
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             : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
  SINGLE 1834 : 62280 OGILVIE8 - 62301 MILACA 8 CKT: 1    51.3    51.3    56.0    56.0    91.6    91.5     0.1
  SINGLE 1789 : 62141 ISANTTP8 - 62143 ATHNSSW8 CKT: 1    51.2    51.2    56.0    56.0    91.4    91.4     0.0
  SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    51.0    50.9    56.0    56.0    91.0    91.0     0.0
  SINGLE 1826 : 62275 PINECTY8 - 62285 RUSH SW8 CKT: 1    50.7    50.7    56.0    56.0    90.6    90.6     0.0
  SINGLE 1824 : 62274 RUSHCYD8 - 62285 RUSH SW8 CKT: 1    50.7    50.7    56.0    56.0    90.6    90.5     0.1
  SINGLE 1940 : 62485 WARBASW8 - 62488 BLCKBRY8 CKT: 1    50.7    50.5    56.0    56.0    90.6    90.2     0.4
  SINGLE 3383 : 62488 BLCKBRY8 - 61739 BLCKBRY7 CKT: 1    50.7    50.5    56.0    56.0    90.5    90.2     0.3
  SINGLE 1929 : 62476 BLKBRYD8 - 62486 LKHD TP8 CKT: 1    50.5   .....    56.0   .....    90.1   .....   *NEW*
  SINGLE 1939 : 62485 WARBASW8 - 62486 LKHD TP8 CKT: 1    50.5   .....    56.0   .....    90.1   .....   *NEW*

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 190) 61683 STIN-MN7 - 61684 STIN-WI7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  SINGLE 1142 : 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1   208.9   208.9   200.0   200.0   104.4   104.4     0.0

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 191) 61721 ETCO   7 - 61722 FORBES 7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 944  : 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1   125.2   125.1    98.0    98.0   125.9   125.6     0.3
  SINGLE 1142 : 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1   125.2   125.0    98.0    98.0   125.8   125.6     0.2
  ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                93.7    93.5    98.0    98.0    95.2    95.0     0.2
             : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
  050    1    : ** MULTIPLE CONTINGENCY **                93.2    93.0    98.0    98.0    94.5    94.3     0.2
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
  050    2    : ** MULTIPLE CONTINGENCY **                92.9    92.7    98.0    98.0    94.4    94.2     0.2
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
  SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1    92.3    92.2    98.0    98.0    93.7    93.5     0.2
  050    3    : ** MULTIPLE CONTINGENCY **                91.3    91.1    98.0    98.0    92.6    92.5     0.1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
  SINGLE 2933 : 60175 ROSEAU 4 - 66757 MORANVI4 CKT: 1    91.2    91.1    98.0    98.0    92.4    92.3     0.1
  SINGLE 2934 : 60175 ROSEAU 4 - 67576 RICHER 4 CKT: 1    91.2    91.1    98.0    98.0    92.4    92.3     0.1
  SINGLE 2992 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1    90.8    90.6    98.0    98.0    92.1    92.0     0.1
  CHI-WYO/LIN7: ** MULTIPLE CONTINGENCY **                90.6    90.4    98.0    98.0    91.9    91.7     0.2
             : 60196 CHI    7 - 60345 WYOMING7 CKT: 1
             : 60196 CHI    7 - 60920 LINDSTM7 CKT: C
  KOL-ASK/CHI3: ** MULTIPLE CONTINGENCY **                90.5    90.4    98.0    98.0    91.9    91.7     0.2
             : 60221 KOLMNLK3 - 60186 AS KING3 CKT: 1
             : 60221 KOLMNLK3 - 60199 CHIS CO3 CKT: 1
  022       8 : ** MULTIPLE CONTINGENCY **                90.4    90.3    98.0    98.0    91.7    91.6     0.1
             : 60186 AS KING3 - 60221 KOLMNLK3 CKT: 1
             : 60199 CHIS CO3 - 60221 KOLMNLK3 CKT: 1
             : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 2
  SINGLE 3283 : 61051 STCRFL5G - 69565 APL RVR5 CKT: C    90.0    89.9    98.0    98.0    91.3    91.1     0.2
  SINGLE 1141 : 60196 CHI    7 - 60920 LINDSTM7 CKT: C    90.0    89.9    98.0    98.0    91.3    91.2     0.1
  SINGLE 3577 : 66752 DRAYTON4 - 67557 LETELER4 CKT: 1    89.8    89.7    98.0    98.0    91.2    91.1     0.1
  022      11 : ** MULTIPLE CONTINGENCY **                89.8    89.6    98.0    98.0    91.1    91.0     0.1
             : 60199 CHIS CO3 - 60221 KOLMNLK3 CKT: 1
             : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 2
  SINGLE 3191 : 60920 LINDSTM7 - 62276 SHAFER 7 CKT: C    89.8    89.7    98.0    98.0    91.1    91.0     0.1
  SINGLE 1145 : 60199 CHIS CO3 - 60221 KOLMNLK3 CKT: 1    89.8    89.7    98.0    98.0    91.1    91.0     0.1
  ASK-CHI/KOL3: ** MULTIPLE CONTINGENCY **                89.8    89.7    98.0    98.0    91.1    91.0     0.1
             : 60186 AS KING3 - 60199 CHIS CO3 CKT: 1
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             : 60186 AS KING3 - 60221 KOLMNLK3 CKT: 1
  SINGLE 1654 : 61051 STCRFL5G - 61131 LAW CRK5 CKT: C    89.7    89.6    98.0    98.0    91.0    90.9     0.1
  SINGLE 1113 : 60186 AS KING3 - 60199 CHIS CO3 CKT: 1    89.6    89.5    98.0    98.0    90.9    90.8     0.1
  SINGLE 1942 : 62490 SHANNON8 - 62491 SIDE LK8 CKT: 1    89.0    88.9    98.0    98.0    90.4    90.3     0.1
  SINGLE 3384 : 62490 SHANNON8 - 61749 SHANNON7 CKT: 1    89.0    88.9    98.0    98.0    90.4    90.3     0.1
  SINGLE 1943 : 62491 SIDE LK8 - 62492 MEADWBK8 CKT: 1    88.8   .....    98.0   .....    90.2   .....   *NEW*
  SINGLE 2036 : 63040 BLAINE 4 - 63046 BUNKER 4 CKT: 1   .....    88.8   .....    98.0   .....    90.2  *ELIM*

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 192) 62297 BENTON 8 - 63045 BENTON 4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1   100.6    99.8    84.0    84.0   119.8   118.8     1.0
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1   100.4   100.4    84.0    84.0   119.5   119.5     0.0
  SINGLE 1734 : 62100 BIG LAK8 - 62150 E BL TP8 CKT: 1    94.8    94.8    84.0    84.0   112.9   112.9     0.0
  SINGLE 1797 : 62150 E BL TP8 - 62965 ELKRWS18 CKT: 1    94.8    94.8    84.0    84.0   112.9   112.8     0.1
  665         : ** MULTIPLE CONTINGENCY **                92.1   .....    84.0   .....   109.6   .....   *NEW*
              : 63043 ELK RIV4 - 60152 MNTCELO4 CKT: 1
              : 63043 ELK RIV4 - 62134 ELKR14S8 CKT: 1
  SINGLE 1060 : 60152 MNTCELO4 - 63043 ELK RIV4 CKT: 1    85.7    85.6    84.0    84.0   102.0   102.0     0.0
  SINGLE 1733 : 62100 BIG LAK8 - 62142 REMMLTP8 CKT: 1    85.2    85.1    84.0    84.0   101.4   101.3     0.1
  SINGLE 1781 : 62134 ELKR14S8 - 63043 ELK RIV4 CKT: 1    84.1    84.0    84.0    84.0   100.1   100.0     0.1
  670     1   : ** MULTIPLE CONTINGENCY **                83.6   .....    84.0   .....    99.6   .....   *NEW*
              : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
              : 63031 BUNKER 3 - 60160 SHERCO 3 CKT: 1
              : 63031 BUNKER 3 - 60202 COON CK3 CKT: 1
              : 60202 COON CK3 - 61487 CNCMID2Y CKT: 1
              : 61487 CNCMID2Y - 60203 COON CK7 CKT: 1
              : 61487 CNCMID2Y - 60655 CNCTER29 CKT: 1
              : 63046 BUNKER 4 - 63031 BUNKER 3 CKT: 1
  SINGLE 2019 : 62944 GOOSETP8 - 63024 MAPLE 1G CKT: 1    82.2    82.2    84.0    84.0    97.9    97.8     0.1
  SINGLE 2010 : 62935 MAPLELK8 - 63024 MAPLE 1G CKT: 1    82.2    82.2    84.0    84.0    97.9    97.8     0.1
  SINGLE 3055 : 60717 WAKEFLD8 - 62846 FRHV TP8 CKT: 1    82.2    82.2    84.0    84.0    97.9    97.8     0.1
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1    82.0    82.0    84.0    84.0    97.7    97.6     0.1
  009   2     : ** MULTIPLE CONTINGENCY **                81.8    81.8    84.0    84.0    97.4    97.3     0.1
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
              : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1
              : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
              : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
              : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
              : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1    81.4    81.4    84.0    84.0    96.9    96.9     0.0
  SINGLE 3051 : 60705 LUXBGTP8 - 62846 FRHV TP8 CKT: 1    81.2    81.2    84.0    84.0    96.7    96.6     0.1
  SHC-CNC/BUL3: ** MULTIPLE CONTINGENCY **                81.1    81.0    84.0    84.0    96.5    96.5     0.0
              : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
              : 60160 SHERCO 3 - 63031 BUNKER 3 CKT: 1
  SINGLE 2013 : 62938 OTSEGO 8 - 63020 ELK RIV8 CKT: 1    81.0    80.9    84.0    84.0    96.4    96.3     0.1
  670     2   : ** MULTIPLE CONTINGENCY **                80.7   .....    84.0   .....    96.1   .....   *NEW*
              : 63031 BUNKER 3 - 60160 SHERCO 3 CKT: 1
              : 63031 BUNKER 3 - 60202 COON CK3 CKT: 1
              : 63046 BUNKER 4 - 63031 BUNKER 3 CKT: 1
  SINGLE 2008 : 62934 HOWARDL8 - 62943 VICTOR 8 CKT: 1    80.6    80.5    84.0    84.0    95.9    95.9     0.0
  009   1     : ** MULTIPLE CONTINGENCY **                80.6    80.5    84.0    84.0    95.9    95.9     0.0
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
              : 60151 MNTCELO3 - 60160 SHERCO 3 CKT: 1
              : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
              : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
              : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
  SINGLE 3049 : 60705 LUXBGTP8 - 62620 WATKINS8 CKT: 1    80.5    80.5    84.0    84.0    95.9    95.8     0.1
  SHC-CNC/ECK3: ** MULTIPLE CONTINGENCY **                80.3    80.3    84.0    84.0    95.6    95.6     0.0
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1
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SINGLE 3047 : 60703 WATKINS8 - 62620 WATKINS8 CKT: 1    80.0    79.9    84.0    84.0    95.2    95.1     0.1
SINGLE 1798 : 62180 RIVTON 8 - 62190 OKLWNTP8 CKT: 1    79.7    79.7    84.0    84.0    94.9    94.9     0.0
SINGLE 1407 : 60703 WATKINS8 - 60704 KIMBALL8 CKT: 1    79.6    79.6    84.0    84.0    94.8    94.7     0.1
SINGLE 2037 : 63031 BUNKER 3 - 63046 BUNKER 4 CKT: 1    79.5    79.5    84.0    84.0    94.6    94.6     0.0
SINGLE 1782 : 62134 ELKR14S8 - 63043 ELK RIV4 CKT: 2    79.5    79.5    84.0    84.0    94.6    94.6     0.0
SINGLE 2000 : 62929 ALBERTV8 - 62938 OTSEGO 8 CKT: 1    79.4    79.4    84.0    84.0    94.5    94.5     0.0
SINGLE 2006 : 62933 HIGHLND8 - 62934 HOWARDL8 CKT: 1    79.2    79.2    84.0    84.0    94.3    94.3     0.0
SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1    79.2    79.1    84.0    84.0    94.2    94.2     0.0
660         : ** MULTIPLE CONTINGENCY **                79.0   .....    84.0   .....    94.1   .....   *NEW*
            : 63043 ELK RIV4 - 63046 BUNKER 4 CKT: 1
            : 63043 ELK RIV4 - 62134 ELKR14S8 CKT: 2
SINGLE 1761 : 62119 THOMPLK8 - 62142 REMMLTP8 CKT: 1    79.0    79.0    84.0    84.0    94.0    94.0     0.0
SINGLE 1811 : 62190 OKLWNTP8 - 62191 PINCTRT8 CKT: 1    78.8    78.8    84.0    84.0    93.8    93.8     0.0
SINGLE 1408 : 60704 KIMBALL8 - 60761 SOUTHVN8 CKT: 1    78.4    78.4    84.0    84.0    93.3    93.3     0.0
SINGLE 1412 : 60712 ANNDALE8 - 60761 SOUTHVN8 CKT: 1    78.3    78.2    84.0    84.0    93.2    93.1     0.1
SINGLE 1080 : 60162 WAKEFLD7 - 60717 WAKEFLD8 CKT: 1    78.3    78.2    84.0    84.0    93.2    93.1     0.1
SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1    78.1    78.1    84.0    84.0    93.0    93.0     0.0
009   7     : ** MULTIPLE CONTINGENCY **                78.1    78.1    84.0    84.0    93.0    93.0     0.0
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 1813 : 62191 PINCTRT8 - 62651 VINLDTP8 CKT: 1    77.8    77.8    84.0    84.0    92.6    92.6     0.0
009   8     : ** MULTIPLE CONTINGENCY **                77.8    77.8    84.0    84.0    92.6    92.6     0.0
            : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 2007 : 62933 HIGHLND8 - 62935 MAPLELK8 CKT: 1    77.8    77.8    84.0    84.0    92.6    92.6     0.0
SINGLE 974  : 60114 ELM CRK3 - 60151 MNTCELO3 CKT: 1    77.7    77.7    84.0    84.0    92.5    92.5     0.0
SINGLE 1169 : 60206 CROWRVR7 - 60652 CROWRV 8 CKT: 1    77.6    77.5    84.0    84.0    92.3    92.3     0.0
SINGLE 1795 : 62147 BNKRLK 8 - 63046 BUNKER 4 CKT: 1    77.4    77.4    84.0    84.0    92.2    92.1     0.1
SINGLE 1971 : 62650 VINELND8 - 62651 VINLDTP8 CKT: 1    77.5    77.4    84.0    84.0    92.2    92.2     0.0
SINGLE 1059 : 60151 MNTCELO3 - 60160 SHERCO 3 CKT: 1    77.4    77.4    84.0    84.0    92.2    92.1     0.1
SINGLE 1166 : 60203 COON CK7 - 62090 PRKWOOD7 CKT: 1    77.3    77.3    84.0    84.0    92.0    92.0     0.0
SINGLE 2001 : 62929 ALBERTV8 - 62949 BLKLKTP8 CKT: 1    77.3    77.3    84.0    84.0    92.0    92.0     0.0
009   4     : ** MULTIPLE CONTINGENCY **                77.2    77.2    84.0    84.0    91.9    91.9     0.0
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
009   6     : ** MULTIPLE CONTINGENCY **                77.2    77.2    84.0    84.0    91.9    91.9     0.0
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 2014 : 62939 SILVERC8 - 62944 GOOSETP8 CKT: 1    77.2    77.1    84.0    84.0    91.9    91.8     0.1
SINGLE 1741 : 62104 COOPERC8 - 62144 SDRVLSW8 CKT: 1    77.2    77.2    84.0    84.0    91.9    91.9     0.0
670     3   : ** MULTIPLE CONTINGENCY **                77.2   .....    84.0   .....    91.9   .....   *NEW*
            : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61487 CNCMID2Y CKT: 1
            : 61487 CNCMID2Y - 60203 COON CK7 CKT: 1
            : 61487 CNCMID2Y - 60655 CNCTER29 CKT: 1
SINGLE 1826 : 62275 PINECTY8 - 62285 RUSH SW8 CKT: 1    77.1    77.1    84.0    84.0    91.8    91.8     0.0
SINGLE 1079 : 60160 SHERCO 3 - 63031 BUNKER 3 CKT: 1    77.1    77.1    84.0    84.0    91.8    91.8     0.0
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SINGLE 1824 : 62274 RUSHCYD8 - 62285 RUSH SW8 CKT: 1    77.1    77.1    84.0    84.0    91.8    91.8     0.0
SINGLE 1966 : 62642 ONAMIA 8 - 62652 RUMRVTP8 CKT: 1    77.1    77.1    84.0    84.0    91.8    91.7     0.1
SINGLE 1727 : 62090 PRKWOOD7 - 62132 PRKWOOD8 CKT: 2    77.1    77.1    84.0    84.0    91.8    91.8     0.0
DKN-CRO/STB7: ** MULTIPLE CONTINGENCY **                77.0    77.0    84.0    84.0    91.7    91.7     0.0
            : 62925 DICKNSN7 - 60206 CROWRVR7 CKT: 1
            : 62925 DICKNSN7 - 62667 ST BONI7 CKT: 1
SINGLE 1171 : 60206 CROWRVR7 - 62925 DICKNSN7 CKT: 1    77.0    76.9    84.0    84.0    91.7    91.6     0.1
SINGLE 1082 : 60163 WST CLD7 - 60732 WST CLD8 CKT: 1    77.0    76.9    84.0    84.0    91.6    91.6     0.0
SINGLE 1755 : 62116 RAMSEY 8 - 62147 BNKRLK 8 CKT: 1    76.9    76.9    84.0    84.0    91.6    91.5     0.1
500         : ** MULTIPLE CONTINGENCY **                76.9   .....    84.0   .....    91.5   .....   *NEW*
            : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
            : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1
SINGLE 1726 : 62090 PRKWOOD7 - 62132 PRKWOOD8 CKT: 1    76.8    76.8    84.0    84.0    91.5    91.4     0.1
SINGLE 1999 : 62925 DICKNSN7 - 63030 DICKNSN3 CKT: 1    76.9    76.8    84.0    84.0    91.5    91.5     0.0
SINGLE 1154 : 60202 COON CK3 - 60272 MPLEGV23 CKT: 1    76.8    76.8    84.0    84.0    91.4    91.4     0.0
650         : ** MULTIPLE CONTINGENCY **                76.8   .....    84.0   .....    91.4   .....   *NEW*
            : 62090 PRKWOOD7 - 60205 CRKEDLK7 CKT: 1
            : 62090 PRKWOOD7 - 62132 PRKWOOD8 CKT: 1
SINGLE 1849 : 62294 RUSH TP8 - 63022 CAMBRDG8 CKT: 1    76.8    76.8    84.0    84.0    91.4    91.4     0.0
SINGLE 1078 : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1    76.8    76.7    84.0    84.0    91.4    91.4     0.0
SINGLE 1846 : 62293 RUSH CY8 - 62294 RUSH TP8 CKT: 1    76.8    76.7    84.0    84.0    91.4    91.4     0.0
CNC-DKN/SHC3: ** MULTIPLE CONTINGENCY **                76.8    76.8    84.0    84.0    91.4    91.4     0.0
            : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1
            : 60202 COON CK3 - 60272 MPLEGV23 CKT: 1
SINGLE 1069 : 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C    76.8    76.8    84.0    84.0    91.4    91.4     0.0
SINGLE 2053 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1    76.7    76.7    84.0    84.0    91.3    91.3     0.0
SINGLE 2919 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1    76.7    76.7    84.0    84.0    91.3    91.3     0.0
SINGLE 1746 : 62108 HUGO   8 - 62128 BLAINE 8 CKT: 1    76.7    76.6    84.0    84.0    91.3    91.2     0.1
SINGLE 1057 : 60151 MNTCELO3 - 60152 MNTCELO4 CKT: 1    76.7    76.7    84.0    84.0    91.3    91.3     0.0
SINGLE 1077 : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1    76.7    76.7    84.0    84.0    91.3    91.3     0.0
022       1 : ** MULTIPLE CONTINGENCY **                76.7   .....    84.0   .....    91.3   .....   *NEW*
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
            : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
            : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
            : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
SINGLE 1142 : 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1    76.6    76.6    84.0    84.0    91.2    91.2     0.0
SINGLE 944  : 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1    76.6    76.6    84.0    84.0    91.2    91.2     0.0
SINGLE 3395 : 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1    76.6    76.6    84.0    84.0    91.2    91.2     0.0
SINGLE 1789 : 62141 ISANTTP8 - 62143 ATHNSSW8 CKT: 1    76.5    76.5    84.0    84.0    91.1    91.1     0.0
SINGLE 2029 : 62985 HUTCHPK8 - 62986 HUTCHMN8 CKT: 1    76.5    76.5    84.0    84.0    91.1    91.0     0.1
SINGLE 1043 : 60146 GRANCTY7 - 60161 STREGIS7 CKT: 1    76.5    76.5    84.0    84.0    91.1    91.1     0.0
SINGLE 1744 : 62106 FOREST 8 - 62108 HUGO   8 CKT: 1    76.5    76.4    84.0    84.0    91.0    91.0     0.0
SINGLE 1233 : 60237 REDROCK4 - 63048 RUSH CY4 CKT: 1    76.3    76.3    84.0    84.0    90.9    90.8     0.1
SINGLE 2009 : 62935 MAPLELK8 - 62949 BLKLKTP8 CKT: 1    76.4    76.4    84.0    84.0    90.9    90.9     0.0
CNC-SHC/BUL3: ** MULTIPLE CONTINGENCY **                76.4    76.4    84.0    84.0    90.9    90.9     0.0
            : 60202 COON CK3 - 60160 SHERCO 3 CKT: 1
            : 60202 COON CK3 - 63031 BUNKER 3 CKT: 1
SINGLE 3398 : 62986 HUTCHMN8 - 62601 HOOK LK8 CKT: 1    76.3    76.3    84.0    84.0    90.8    90.8     0.0
SINGLE 2449 : 66503 BLAIR  4 - 66550 GRANITF4 CKT: 1    76.3    76.3    84.0    84.0    90.8    90.8     0.0
SINGLE 1430 : 60748 WESTPRT8 - 60749 DGLAS C8 CKT: 1    76.2    76.2    84.0    84.0    90.8    90.7     0.1
SINGLE 1431 : 60749 DGLAS C8 - 60750 OSAKIS 8 CKT: 1    76.3    76.2    84.0    84.0    90.8    90.7     0.1
SINGLE 1738 : 62104 COOPERC8 - 62143 ATHNSSW8 CKT: 1   .....    76.7   .....    84.0   .....    91.3  *ELIM*
SINGLE 1746 : 62110 JOHNSVL8 - 62132 PRKWOOD8 CKT: 1   .....    76.6   .....    84.0   .....    91.2  *ELIM*
SINGLE 1752 : 62116 RAMSEY 8 - 62146 ENTPRTP8 CKT: 1   .....    76.3   .....    84.0   .....    90.8  *ELIM*
SINGLE 1761 : 62121 VILGTEN8 - 62132 PRKWOOD8 CKT: 1   .....    76.3   .....    84.0   .....    90.9  *ELIM*
SINGLE 1771 : 62128 BLAINE 8 - 63040 BLAINE 4 CKT: 1   .....    76.6   .....    84.0   .....    91.2  *ELIM*
SINGLE 2022 : 62980 MCLEOD 4 - 62981 MCLEOD 7 CKT: 1   .....    76.7   .....    84.0   .....    91.4  *ELIM*
```

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 SINGLE 3089 : 60750 OSAKIS 8 - 62820 W UNION8 CKT: 1   .....    76.2   .....    84.0   .....    90.7  *ELIM*
 CNC-KOL/TER3: ** MULTIPLE CONTINGENCY **               .....    76.6   .....    84.0   .....    91.2  *ELIM*
             : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
             : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
 *** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

==================================================================================================================
 193) 63255 DONALDS7 - 66705 DRAYTON7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 944  : 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1   106.7   106.6   110.0   110.0    93.0    93.3    -0.3
 SINGLE 1142 : 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1   106.7   106.7   110.0   110.0    93.0    93.0     0.0

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 194) 60107 W FARIB7 - 60792 WFARBLT8 CKT:  P          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 953  : 60107 W FARIB7 - 60792 WFARBLT8 CKT: 1   121.3   121.3   112.0   112.0   108.3   108.3     0.0
 SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   112.0   111.4   112.0   112.0   100.0    99.5     0.5
 SINGLE 1377 : 60650 WILMART8 - 60831 EASTWD28 CKT: 1   104.8   104.7   112.0   112.0    93.5    93.5     0.0
 SINGLE 3157 : 60831 EASTWD28 - 62347 EAGLELK8 CKT: 1   102.7   102.6   112.0   112.0    91.7    91.6     0.1
 SPC-PRI/CTF5: ** MULTIPLE CONTINGENCY **               102.4   102.4   112.0   112.0    91.5    91.4     0.1
             : 63071 SPRNGCK5 - 60106 PR ISLD5 CKT: 1
             : 63071 SPRNGCK5 - 60103 CANNFLS5 CKT: 1
 740    1    : ** MULTIPLE CONTINGENCY **               102.4   102.4   112.0   112.0    91.5    91.4     0.1
             : 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1
             : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1
             : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1
 SINGLE 3129 : 60808 EAGLELK8 - 62347 EAGLELK8 CKT: 1   101.7   101.6   112.0   112.0    90.8    90.7     0.1
 SINGLE 947  : 60105 PR ISLD3 - 60106 PR ISLD5 CKT: 1   101.4   101.3   112.0   112.0    90.5    90.5     0.0
 SINGLE 2902 : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1   101.4   101.4   112.0   112.0    90.5    90.5     0.0

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 195) 60794 NRSTRND8 - 62389 KENYON 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    45.7    45.4    37.0    37.0   121.2   120.5     0.7
 SPC-PRI/CTF5: ** MULTIPLE CONTINGENCY **                41.4    41.3    37.0    37.0   111.4   111.2     0.2
             : 63071 SPRNGCK5 - 60106 PR ISLD5 CKT: 1
             : 63071 SPRNGCK5 - 60103 CANNFLS5 CKT: 1
 740    1    : ** MULTIPLE CONTINGENCY **                41.4    41.3    37.0    37.0   111.4   111.2     0.2
             : 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1
             : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1
             : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1
 SINGLE 947  : 60105 PR ISLD3 - 60106 PR ISLD5 CKT: 1    39.2    39.1    37.0    37.0   105.4   105.2     0.2
 SINGLE 2902 : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1    39.2    39.1    37.0    37.0   105.4   105.2     0.2
 SINGLE 1461 : 60789 CIRCLTP8 - 60790 FAIRPRK8 CKT: 1    39.1    39.0    37.0    37.0   103.0   102.7     0.3
 SINGLE 1460 : 60788 VALLYTP8 - 60789 CIRCLTP8 CKT: 1    37.9    37.8    37.0    37.0   100.2    99.9     0.3
 SINGLE 1458 : 60786 DUNDAS 8 - 60788 VALLYTP8 CKT: 1    37.3    37.2    37.0    37.0    98.6    98.3     0.3
 SINGLE 1457 : 60786 DUNDAS 8 - 60787 NOFIELD8 CKT: 1    34.4    34.2    37.0    37.0    91.0    90.6     0.4

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 196) 60796 KENYON 8 - 60797 KENYNTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    39.8    39.5    37.0    37.0   107.7   107.0     0.7
 SPC-PRI/CTF5: ** MULTIPLE CONTINGENCY **                34.8    34.7    37.0    37.0    96.3    96.0     0.3
             : 63071 SPRNGCK5 - 60106 PR ISLD5 CKT: 1
             : 63071 SPRNGCK5 - 60103 CANNFLS5 CKT: 1
 740    1    : ** MULTIPLE CONTINGENCY **                34.8    34.7    37.0    37.0    96.3    96.0     0.3
             : 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1
             : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1
             : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1
 SINGLE 947  : 60105 PR ISLD3 - 60106 PR ISLD5 CKT: 1    32.8    32.7    37.0    37.0    90.3    90.1     0.2
 SINGLE 2902 : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1    32.8    32.7    37.0    37.0    90.3    90.1     0.2

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 197) 60797 KENYNTP8 - 62389 KENYON 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    44.4    44.1    37.0    37.0   118.4   117.7     0.7
  SPC-PRI/CTF5: ** MULTIPLE CONTINGENCY **                40.0    39.9    37.0    37.0   108.3   108.1     0.2
              : 63071 SPRNGCK5 - 60106 PR ISLD5 CKT: 1
              : 63071 SPRNGCK5 - 60103 CANNFLS5 CKT: 1
  740    1    : ** MULTIPLE CONTINGENCY **                40.0    39.9    37.0    37.0   108.3   108.1     0.2
              : 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1
              : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1
              : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1
  SINGLE 947  : 60105 PR ISLD3 - 60106 PR ISLD5 CKT: 1    37.8    37.7    37.0    37.0   102.3   102.1     0.2
  SINGLE 2902 : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1    37.8    37.7    37.0    37.0   102.3   102.1     0.2
  SINGLE 1461 : 60789 CIRCLTP8 - 60790 FAIRPRK8 CKT: 1    37.8    37.7    37.0    37.0   100.2    99.9     0.3
  SINGLE 1460 : 60788 VALLYTP8 - 60789 CIRCLTP8 CKT: 1    36.7    36.6    37.0    37.0    97.4    97.1     0.3
  SINGLE 1458 : 60786 DUNDAS 8 - 60788 VALLYTP8 CKT: 1    36.1    35.9    37.0    37.0    95.8    95.5     0.3

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 198) 60103 CANNFLS5 - 63071 SPRNGCK5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                84.0    84.0    90.0    90.0    93.6    93.7    -0.1
              : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
              : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2

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 199) 60105 PR ISLD3 - 60003 PR IS31G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **               542.5   542.4   600.0   600.0    90.4    90.4     0.0
              : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
              : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
  SINGLE 2901 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1   541.8   541.6   600.0   600.0    90.3    90.3     0.0
  SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1   540.8   540.7   600.0   600.0    90.1    90.1     0.0

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 200) 60805 WATRVIL8 - 62679 ELYSNTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    45.8    45.3    37.0    37.0   123.1   121.8     1.3
  SINGLE 1276 : 60265 LOON TP7 - 60830 EASTWD18 CKT: P    39.5    39.1    37.0    37.0   105.6   104.6     1.0
  SINGLE 952  : 60107 W FARIB7 - 60265 LOON TP7 CKT: C    35.7    35.4    37.0    37.0    95.4    94.5     0.9

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 201) 60808 EAGLELK8 - 62347 EAGLELK8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 3024 : 60650 WILMART8 - 62336 JHNSNTP8 CKT: 1   105.1   104.9    72.0    72.0   146.1   145.8     0.3
  SINGLE 3152 : 60826 TRAVRSE8 - 62323 PNLPNTP8 CKT: 1    91.9    91.6    72.0    72.0   126.2   125.8     0.4
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    87.8    87.3    72.0    72.0   120.1   119.3     0.8
  SINGLE 1276 : 60265 LOON TP7 - 60830 EASTWD18 CKT: P    73.0    72.6    72.0    72.0    99.1    98.6     0.5
  SINGLE 1488 : 60826 TRAVRSE8 - 61974 ST PETER CKT: 1    68.3    68.1    72.0    72.0    94.9    94.6     0.3
  SINGLE 952  : 60107 W FARIB7 - 60265 LOON TP7 CKT: C    69.4    69.1    72.0    72.0    94.3    93.9     0.4

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 202) 60831 EASTWD28 - 62347 EAGLELK8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 3024 : 60650 WILMART8 - 62336 JHNSNTP8 CKT: 1   108.8   108.6    72.0    72.0   151.2   150.9     0.3
  SINGLE 3152 : 60826 TRAVRSE8 - 62323 PNLPNTP8 CKT: 1    96.0    95.7    72.0    72.0   131.1   130.7     0.4
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    91.7    91.2    72.0    72.0   124.9   124.1     0.8
  SINGLE 1276 : 60265 LOON TP7 - 60830 EASTWD18 CKT: P    76.7    76.3    72.0    72.0   103.9   103.4     0.5
  SINGLE 1488 : 60826 TRAVRSE8 - 61974 ST PETER CKT: 1    72.4    72.2    72.0    72.0   100.0    99.7     0.3
  SINGLE 952  : 60107 W FARIB7 - 60265 LOON TP7 CKT: C    73.1    72.8    72.0    72.0    99.1    98.6     0.5
  SINGLE 954  : 60107 W FARIB7 - 60792 WFARBLT8 CKT: P    68.8    68.6    72.0    72.0    93.3    93.0     0.3

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 203) 60107 W FARIB7 - 60792 WFARBLT8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
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  SINGLE 954  : 60107 W FARIB7 - 60792 WFARBLT8 CKT: P   100.2   100.2    70.0    70.0   143.2   143.1     0.1

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 204) 34010 HAYWARD5 - 34013 WNBAGOS5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   194.6   191.9   167.0   167.0   120.6   118.6     2.0

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 205) 34300 MONTGMY8 - 34301 NEWPRAG8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    33.9    33.8    36.0    36.0    92.9    92.5     0.4

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 206) 60107 W FARIB7 - 60265 LOON TP7 CKT:  C          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   339.9   337.3   310.0   310.0   111.1   110.0     1.1

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 207) 60108 WILMART3 - 60110 WILMART7 CKT:  1  **NEW** PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   405.9   .....   448.0   .....    90.6   .....   *NEW*

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 208) 60108 WILMART3 - 60110 WILMART7 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   415.7   411.9   448.0   448.0    92.8    92.0     0.8

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 209) 60110 WILMART7 - 60111 BODE   7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   126.6   126.0   139.0   139.0    93.0    92.4     0.6

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 210) 60110 WILMART7 - 60650 WILMART8 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    63.2    63.0    70.0    70.0    90.3    90.1     0.2

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 211) 60145 FRANKLN7 - 60728 FRANKLN8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1041 : 60145 FRANKLN7 - 60728 FRANKLN8 CKT: 2    63.5    63.4    47.0    47.0   135.2   134.9     0.3
  SINGLE 2919 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1    63.0    62.8    47.0    47.0   134.1   133.7     0.4
  795         : ** MULTIPLE CONTINGENCY **                55.5    55.5    47.0    47.0   118.0   118.1    -0.1
              : 66550 GRANITF4 - 60150 MNVLTAP4 CKT: 1
              : 60148 MINVALY7 - 60149 MINVALT4 CKT: C
              : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1
              : 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1
              : 63054 PANTHER4 - 60742 PANTHER8 CKT: 1
  SINGLE 3082 : 60742 PANTHER8 - 63054 PANTHER4 CKT: 1    49.8    49.7    47.0    47.0   106.0   105.8     0.2
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    47.8    47.7    47.0    47.0   101.8   101.5     0.3
  SINGLE 971  : 60112 FTRIDLY7 - 60938 FTRIDGL8 CKT: 1    47.3    47.2    47.0    47.0   100.7   100.5     0.2
  SINGLE 1415 : 60718 BIRDISL8 - 60742 PANTHER8 CKT: 1    45.6    45.6    47.0    47.0    97.1    97.0     0.1
  SINGLE 1056 : 60150 MNVLTAP4 - 66550 GRANITF4 CKT: 1    43.5    43.4    47.0    47.0    92.6    92.4     0.2
  SINGLE 3203 : 60940 NW ULM 8 - 62081 NEW ULM8 CKT: 1    42.6    42.6    47.0    47.0    90.7    90.6     0.1
  SINGLE 1548 : 60938 FTRIDGL8 - 60940 NW ULM 8 CKT: 1    42.6    42.6    47.0    47.0    90.7    90.6     0.1

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 212) 60145 FRANKLN7 - 60728 FRANKLN8 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1040 : 60145 FRANKLN7 - 60728 FRANKLN8 CKT: 1    63.5    63.4    47.0    47.0   135.2   134.9     0.3
  SINGLE 2919 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1    63.0    62.8    47.0    47.0   134.1   133.7     0.4
  795         : ** MULTIPLE CONTINGENCY **                55.5    55.5    47.0    47.0   118.0   118.1    -0.1
              : 66550 GRANITF4 - 60150 MNVLTAP4 CKT: 1
```

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              : 60148 MINVALY7 - 60149 MINVALT4 CKT: C
              : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1
              : 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1
              : 63054 PANTHER4 - 60742 PANTHER8 CKT: 1
  SINGLE 3082 : 60742 PANTHER8 - 63054 PANTHER4 CKT: 1    49.8    49.7    47.0    47.0   106.0   105.8     0.2
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    47.8    47.7    47.0    47.0   101.8   101.5     0.3
  SINGLE 971  : 60112 FTRIDLY7 - 60938 FTRIDGL8 CKT: 1    47.3    47.2    47.0    47.0   100.7   100.5     0.2
  SINGLE 1415 : 60718 BIRDISL8 - 60742 PANTHER8 CKT: 1    45.6    45.6    47.0    47.0    97.1    97.0     0.1
  SINGLE 1056 : 60150 MNVLTAP4 - 66550 GRANITF4 CKT: 1    43.5    43.4    47.0    47.0    92.6    92.4     0.2
  SINGLE 3203 : 60940 NW ULM 8 - 62081 NEW ULM8 CKT: 1    42.6    42.6    47.0    47.0    90.7    90.6     0.1
  SINGLE 1548 : 60938 FTRIDGL8 - 60940 NW ULM 8 CKT: 1    42.6    42.6    47.0    47.0    90.7    90.6     0.1

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 213) 60170 MARSHAL7 - 60371 ERIE RD7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1087 : 60170 MARSHAL7 - 60373 SOUTH E7 CKT: 1   148.7   148.3   127.9   127.9   116.1   115.9     0.2
  SINGLE 1049 : 60148 MINVALY7 - 60171 LYON CO7 CKT: 1   143.2   142.8   127.9   127.9   112.2   111.8     0.4
  SINGLE 1374 : 60372 SARATOG7 - 60373 SOUTH E7 CKT: 1   135.1   134.8   127.9   127.9   105.6   105.4     0.2
  SINGLE 1372 : 60371 ERIE RD7 - 60372 SARATOG7 CKT: 1   130.6   130.2   127.9   127.9   102.4   102.2     0.2
  SINGLE 1293 : 60287 NOBLES 7 - 60369 FENTON 7 CKT: C   124.3   124.1   127.9   127.9    98.6    98.4     0.2
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   118.4   118.2   127.9   127.9    95.8    95.3     0.5
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   114.0   113.7   127.9   127.9    90.9    90.5     0.4
  SINGLE 2501 : 66529 WATERTN3 - 66537 WHITE  3 CKT: 1   116.0   115.7   127.9   127.9    90.8    90.5     0.3

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 214) 60194 CARVRCO7 - 60243 SCOTTAP7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   135.1   134.2   139.0   139.0   104.0   103.0     1.0

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 215) 60194 CARVRCO7 - 60277 WWACNIA7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    72.3    71.3    71.4    71.4   108.4   106.5     1.9

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 216) 60203 COON CK7 - 62090 PRKWOOD7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2037 : 63031 BUNKER 3 - 63046 BUNKER 4 CKT: 1   243.2   243.2   239.0   239.0   104.0   104.0     0.0
  SINGLE 1773 : 62128 BLAINE 8 - 63040 BLAINE 4 CKT: 1   238.9   238.9   239.0   239.0   102.4   102.4     0.0
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1   230.7   230.7   239.0   239.0    98.9    98.9     0.0
  BLL-EDP/PKL3: ** MULTIPLE CONTINGENCY **               220.8   220.8   239.0   239.0    94.3    94.3     0.0
              : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
              : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1
  SINGLE 1781 : 62134 ELKR14S8 - 63043 ELK RIV4 CKT: 1   219.1   219.1   239.0   239.0    93.4    93.4     0.0
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1   214.3   214.3   239.0   239.0    91.4    91.4     0.0
  ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **               213.8   213.8   239.0   239.0    91.0    91.1    -0.1
              : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
  SINGLE 1771 : 62126 PIPELIN8 - 62135 STFRNCS8 CKT: 1   212.6   212.6   239.0   239.0    90.7    90.7     0.0
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1   212.4   212.4   239.0   239.0    90.6    90.6     0.0
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   212.2   212.2   239.0   239.0    90.5    90.4     0.1
  SINGLE 1741 : 62105 DAYTON 8 - 62146 ENTPRTP8 CKT: 1   .....   211.4   .....   239.0   .....    90.0  *ELIM*

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 217) 60265 LOON TP7 - 60830 EASTWD18 CKT:  P          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   424.7   420.6   310.0   310.0   136.2   134.7     1.5

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 218) 60719 LAFAYET8 - 60725 WINTHRP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    42.2    42.0    37.0    37.0   116.5   115.8     0.7
```

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  SINGLE 3153 : 60826 TRAVRSE8 - 62350 TRAVERS8 CKT: 1    34.8    34.6    37.0    37.0    95.1    94.6     0.5
  SINGLE 3068 : 60728 FRANKLN8 - 60727 FARFXNU8 CKT: 1    34.3    34.2    37.0    37.0    93.6    93.3     0.3
  SINGLE 3024 : 60650 WILMART8 - 62336 JHNSNTP8 CKT: 1    34.0    33.9    37.0    37.0    93.3    93.0     0.3

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 219) 60719 LAFAYET8 - 62079 LAFAYTT8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    46.1    45.9    37.0    37.0   127.0   126.2     0.8
  SINGLE 3153 : 60826 TRAVRSE8 - 62350 TRAVERS8 CKT: 1    38.2    38.1    37.0    37.0   104.2   103.7     0.5
  SINGLE 3068 : 60728 FRANKLN8 - 60727 FARFXNU8 CKT: 1    37.9    37.8    37.0    37.0   103.4   103.0     0.4
  SINGLE 3024 : 60650 WILMART8 - 62336 JHNSNTP8 CKT: 1    37.3    37.2    37.0    37.0   102.0   101.7     0.3
  SINGLE 3395 : 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1    36.6    36.5    37.0    37.0    98.4    98.0     0.4
  SINGLE 3066 : 60726 GIBBON 8 - 60769 CAIRO R8 CKT: 1    35.8    35.7    37.0    37.0    96.9    96.6     0.3
  SINGLE 3152 : 60826 TRAVRSE8 - 62323 PNLPNTP8 CKT: 1    35.7    35.6    37.0    37.0    96.8    96.5     0.3
  SINGLE 3067 : 60726 GIBBON 8 - 62075 CORNISH8 CKT: 1    35.0    34.9    37.0    37.0    94.6    94.2     0.4
  795         : ** MULTIPLE CONTINGENCY **                34.9    34.8    37.0    37.0    94.3    94.1     0.2
              : 66550 GRANITF4 - 60150 MNVLTAP4 CKT: 1
              : 60148 MINVALY7 - 60149 MINVALT4 CKT: C
              : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1
              : 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1
              : 63054 PANTHER4 - 60742 PANTHER8 CKT: 1
  SINGLE 1548 : 60938 FTRIDGL8 - 60940 NW ULM 8 CKT: 1    35.0    34.9    37.0    37.0    94.1    93.9     0.2
  SINGLE 3203 : 60940 NW ULM 8 - 62081 NEW ULM8 CKT: 1    35.0    34.9    37.0    37.0    94.1    93.9     0.2
  SINGLE 3064 : 60724 HENDRSN8 - 60868 LESR TP8 CKT: 1    34.6    34.5    37.0    37.0    93.4    93.1     0.3
  SINGLE 3065 : 60724 HENDRSN8 - 62674 JSNLDTP8 CKT: 1    34.4    34.3    37.0    37.0    92.8    92.5     0.3
  SINGLE 964  : 60110 WILMART7 - 60194 CARVRCO7 CKT: 1    34.3    34.2    37.0    37.0    92.7    92.3     0.4
  SINGLE 2024 : 62980 MCLEOD 4 - 62981 MCLEOD 7 CKT: 1    34.5    34.4    37.0    37.0    92.6    92.3     0.3
  SINGLE 2919 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1    34.2    34.1    37.0    37.0    92.1    91.8     0.3
  SINGLE 3060 : 60721 ESSIG  8 - 62067 SRL JCT8 CKT: 1    34.2    34.1    37.0    37.0    92.0    91.7     0.3
  SINGLE 3061 : 60721 ESSIG  8 - 62080 HOME TP8 CKT: 1    34.1    34.1    37.0    37.0    91.9    91.6     0.3
  705       1 : ** MULTIPLE CONTINGENCY **                34.0    33.9    37.0    37.0    91.6    91.3     0.3
              : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1
              : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
              : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 1
  BLL-EDP/PKL3: ** MULTIPLE CONTINGENCY **                33.9    33.8    37.0    37.0    91.4    91.1     0.3
              : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
              : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1
  SINGLE 970  : 60112 FTRIDLY7 - 60145 FRANKLN7 CKT: 1    33.9    33.5    37.0    37.0    90.9    90.1     0.8
  SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    33.5    33.4    37.0    37.0    90.4    90.1     0.3
  SINGLE 2025 : 62981 MCLEOD 7 - 62983 HUTCH3M7 CKT: 1    33.6   .....    37.0   .....    90.0   .....   *NEW*

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 220) 60796 KENYON 8 - 60819 CHERYTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    37.4    37.2    37.0    37.0   102.1   101.4     0.7
  SPC-PRI/CTF5: ** MULTIPLE CONTINGENCY **                32.3   .....    37.0   .....    90.1   .....   *NEW*
              : 63071 SPRNGCK5 - 60106 PR ISLD5 CKT: 1
              : 63071 SPRNGCK5 - 60103 CANNFLS5 CKT: 1
  740     1   : ** MULTIPLE CONTINGENCY **                32.3   .....    37.0   .....    90.1   .....   *NEW*
              : 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1
              : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1
              : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1

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 221) 60808 EAGLELK8 - 62679 ELYSNTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    48.5    48.1    48.0    48.0    99.7    98.6     1.1

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 222) 60818 ZUMBRTA8 - 60819 CHERYTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    35.2    35.0    37.0    37.0    97.8    97.1     0.7
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 223) 62429 PNNCKTP8 - 66298 GRANITF8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2053 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1    43.3    43.2    24.3    24.3   179.3   178.7     0.6
  500         : ** MULTIPLE CONTINGENCY **                32.6    32.5    24.3    24.3   134.8   134.5     0.3
              : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
              : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1
  SINGLE 1895 : 62427 WILLMAR8 - 63050 WILLMAR4 CKT: 1    29.7    29.7    24.3    24.3   122.8   122.6     0.2
  690         : ** MULTIPLE CONTINGENCY **                27.1    27.0    24.3    24.3   111.9   111.7     0.2
              : 62425 WILLMAR7 - 62005 KERKHOT7 CKT: C
              : 60357 MAYNARD7 - 62005 KERKHOT7 CKT: 1
              : 62005 KERKHOT7 - 62006 KERKHO 7 CKT: 1
              : 62006 KERKHO 7 - 62001 BENSON 7 CKT: 1
  690     P1  : ** MULTIPLE CONTINGENCY **                27.1    27.0    24.3    24.3   111.9   111.7     0.2
              : 62425 WILLMAR7 - 62005 KERKHOT7 CKT: C
              : 60357 MAYNARD7 - 62005 KERKHOT7 CKT: 1
              : 62005 KERKHOT7 - 62006 KERKHO 7 CKT: 1
              : 62006 KERKHO 7 - 62001 BENSON 7 CKT: 1
  640         : ** MULTIPLE CONTINGENCY **                27.1    27.0    24.3    24.3   111.7   111.4     0.3
              : 62425 WILLMAR7 - 62427 WILLMAR8 CKT: 1
              : 62425 WILLMAR7 - 62005 KERKHOT7 CKT: C
  SINGLE 1889 : 62425 WILLMAR7 - 62427 WILLMAR8 CKT: 1    27.1    27.0    24.3    24.3   111.7   111.4     0.3
  SINGLE 1714 : 62005 KERKHOT7 - 62425 WILLMAR7 CKT: C    27.1    27.0    24.3    24.3   111.7   111.4     0.3
  SINGLE 1368 : 60357 MAYNARD7 - 62005 KERKHOT7 CKT: 1    23.6    23.6    24.3    24.3    96.8    96.5     0.3
  795         : ** MULTIPLE CONTINGENCY **                23.6    23.6    24.3    24.3    96.5    96.2     0.3
              : 66550 GRANITF4 - 60150 MNVLTAP4 CKT: 1
              : 60148 MINVALY7 - 60149 MINVALT4 CKT: C
              : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1
              : 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1
              : 63054 PANTHER4 - 60742 PANTHER8 CKT: 1
  SINGLE 2919 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1    23.6    23.6    24.3    24.3    96.3    95.9     0.4
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    22.3    22.3    24.3    24.3    95.5    95.0     0.5
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    22.5    22.5    24.3    24.3    95.3    94.9     0.4
  SINGLE 3395 : 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1    22.8    22.7    24.3    24.3    92.6    92.3     0.3
  SINGLE 1050 : 60148 MINVALY7 - 60357 MAYNARD7 CKT: 1    22.5    22.5    24.3    24.3    92.4    92.1     0.3

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 224) 62980 MCLEOD 4 - 63054 PANTHER4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   290.2   288.9   319.0   319.0   100.3    99.6     0.7
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   279.9   278.1   319.0   319.0    97.1    96.3     0.8
  500         : ** MULTIPLE CONTINGENCY **               276.1   274.9   319.0   319.0    92.4    91.9     0.5
              : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
              : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1

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 225) 63327 HANKSON4 - 63329 WAHPETN4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2201 : 63369 JAMESTN3 - 66791 CENTER 3 CKT: 1   329.1   328.3   320.0   320.0   104.7   104.3     0.4
  SINGLE 2197 : 63358 BUFFALO3 - 63369 JAMESTN3 CKT: 1   319.0   318.2   320.0   320.0   101.2   100.9     0.3
  SINGLE 2198 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1   316.8   316.0   320.0   320.0   100.7   100.4     0.3
  SINGLE 2079 : 63195 BIGSTONY - 63314 BIGSTON4 CKT: 1   315.1   314.2   320.0   320.0    99.6    99.3     0.3
  SINGLE 2078 : 63195 BIGSTONY - 63214 BIGSTON7 CKT: 1   315.1   314.2   320.0   320.0    99.6    99.3     0.3
  SINGLE 2098 : 63214 BIGSTON7 - 63215 HIWY12 7 CKT: 1   305.0   304.1   320.0   320.0    96.2    95.9     0.3
  SINGLE 2099 : 63215 HIWY12 7 - 63216 ORTONVL7 CKT: 1   300.9   300.0   320.0   320.0    94.7    94.4     0.3
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   293.3   292.0   320.0   320.0    94.0    93.4     0.6
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   291.5   290.4   320.0   320.0    92.7    92.3     0.4
  SINGLE 2449 : 66503 BLAIR  4 - 66550 GRANITF4 CKT: 1   292.2   291.5   320.0   320.0    92.3    92.1     0.2
  SINGLE 1710 : 62003 JOHNJCT7 - 63216 ORTONVL7 CKT: 1   288.5   287.6   320.0   320.0    90.7    90.4     0.3

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 226) 34007 LAKEFLD5 - 34008 FOX LK 5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
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  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   162.0   158.4   160.0   160.0   104.3   102.1     2.2

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 227) 34008 FOX LK 5 - 61932 RUTLAND5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   368.5   362.8   434.0   434.0    92.3    90.8     1.5

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 228) 34009 WINBAGO5 - 61932 RUTLAND5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   381.6   375.7   434.0   434.0    95.6    94.0     1.6

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 229) 34251 MADLIAJ8 - 60716 STJ EAS8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    51.5    51.0    36.0    36.0   145.8   144.1     1.7

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 230) 60109 WILMART5 - 60110 WILMART7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   183.4   180.3   187.0   187.0    98.1    96.4     1.7

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 231) 60150 MNVLTAP4 - 63054 PANTHER4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   347.5   345.9   388.0   388.0    96.6    95.9     0.7
  500         : ** MULTIPLE CONTINGENCY **               328.2   .....   388.0   .....    90.3   .....   *NEW*
              : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
              : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1

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 232) 60684 YELWMED8 - 60903 LYON CO8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1085 : 60170 MARSHAL7 - 60171 LYON CO7 CKT: 1    55.3    55.2    47.0    47.0   115.7   115.3     0.4
  SINGLE 1049 : 60148 MINVALY7 - 60171 LYON CO7 CKT: 1    54.6    54.4    47.0    47.0   113.7   113.3     0.4
  SINGLE 1373 : 60371 ERIE RD7 - 66508 S3     7 CKT: 1    48.5    48.4    47.0    47.0   101.3   100.9     0.4
  505         : ** MULTIPLE CONTINGENCY **                48.0    47.8    47.0    47.0    99.9    99.6     0.3
              : 66551 GRANITF7 - 66508 S3     7 CKT: 1
              : 66552 MARS ER7 - 66508 S3     7 CKT: 1
              : 60371 ERIE RD7 - 66508 S3     7 CKT: 1
  SINGLE 1293 : 60287 NOBLES 7 - 60369 FENTON 7 CKT: C    44.6    44.6    47.0    47.0    95.7    95.5     0.2
  SINGLE 2466 : 66508 S3     7 - 66551 GRANITF7 CKT: 1    44.7    44.5    47.0    47.0    93.7    93.4     0.3
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    43.1    43.0    47.0    47.0    93.6    93.1     0.5

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 233) 60716 STJ EAS8 - 60709 STJMSMU8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    56.9    56.4    36.0    36.0   159.7   158.0     1.7

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 234) 60810 POHLRDT8 - 60812 BALLARD8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    67.4    66.3    66.0    66.0   104.5   102.8     1.7

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 235) 60810 POHLRDT8 - 62338 POHL TP8 CKT:  1  **NEW** PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    61.1   .....    68.0   .....    91.4   .....   *NEW*

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 236) 60812 BALLARD8 - 62348 CENTURY8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    66.3    65.3    66.0    66.0   104.7   102.9     1.8
```

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 237) 60814 RAPIDAN8 - 60815 GARDNTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    65.9    65.0    66.0    66.0   105.4   103.6     1.8

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 238) 60814 RAPIDAN8 - 62348 CENTURY8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    68.0    67.0    66.0    66.0   107.6   105.8     1.8

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 239) 60815 GARDNTP8 - 60700 LKCRYST8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    65.6    64.7    66.0    66.0   105.4   103.7     1.7

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 240) 60816 BUTERTP8 - 60700 LKCRYST8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    66.3    65.4    66.0    66.0   107.0   105.2     1.8

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 241) 64250 BLKHAWK5 - 64256 UNIONTP5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2722 : 34016 EMERY  5 - 64252 FLOYD  5 CKT: 1   174.1   171.2   181.0   181.0    99.5    97.7     1.8
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   159.0   .....   181.0   .....    90.3   .....   *NEW*

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 242) 66530 WATERTN4 - 66539 WATERSVC CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   153.4   153.4   150.0   150.0   102.3   102.3     0.0

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 243) 60151 MNTCELO3 - 60152 MNTCELO4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1034 : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1   441.2   441.2   336.0   336.0   131.3   131.3     0.0
  675         : ** MULTIPLE CONTINGENCY **               441.2   441.2   336.0   336.0   131.3   131.3     0.0
              : 60142 BENTON 3 - 63045 BENTON 4 CKT: 1
              : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1
              : 60142 BENTON 3 - 63045 BENTON 4 CKT: 2
  670     1   : ** MULTIPLE CONTINGENCY **               372.6   372.6   336.0   336.0   110.9   110.9     0.0
              : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
              : 63031 BUNKER 3 - 60160 SHERCO 3 CKT: 1
              : 63031 BUNKER 3 - 60202 COON CK3 CKT: 1
              : 60202 COON CK3 - 61487 CNCMID2Y CKT: 1
              : 61487 CNCMID2Y - 60203 COON CK7 CKT: 1
              : 61487 CNCMID2Y - 60655 CNCTER29 CKT: 1
              : 63046 BUNKER 4 - 63031 BUNKER 3 CKT: 1
  670     2   : ** MULTIPLE CONTINGENCY **               344.7   344.6   336.0   336.0   102.6   102.6     0.0
              : 63031 BUNKER 3 - 60160 SHERCO 3 CKT: 1
              : 63031 BUNKER 3 - 60202 COON CK3 CKT: 1
              : 63046 BUNKER 4 - 63031 BUNKER 3 CKT: 1
  SINGLE 2037 : 63031 BUNKER 3 - 63046 BUNKER 4 CKT: 1   333.3   333.1   336.0   336.0    99.2    99.1     0.1
  SINGLE 2914 : 60142 BENTON 3 - 63045 BENTON 4 CKT: 1   305.3   305.3   336.0   336.0    90.9    90.9     0.0
  SINGLE 2915 : 60142 BENTON 3 - 63045 BENTON 4 CKT: 2   303.3   303.3   336.0   336.0    90.3    90.3     0.0

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 244) 60114 ELM CRK3 - 60115 ELMCRK 7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  009   7     : ** MULTIPLE CONTINGENCY **               518.8   518.7   448.0   448.0   115.8   115.8     0.0
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
              : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
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                : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
                : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
                : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
  009   8       : ** MULTIPLE CONTINGENCY **                503.5   503.5   448.0   448.0   112.4   112.4     0.0
                : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
                : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
                : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
                : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
                : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
                : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
                : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
  PKL-DKN/ECK3: ** MULTIPLE CONTINGENCY **                457.8   457.8   448.0   448.0   102.2   102.2     0.0
                : 60233 PARKERS3 - 60270 MPLEGV13 CKT: 1
                : 60233 PARKERS3 - 60114 ELM CRK3 CKT: 1
  009   5       : ** MULTIPLE CONTINGENCY **                458.0   458.0   448.0   448.0   102.2   102.2     0.0
                : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
                : 63030 DICKNSN3 - 60270 MPLEGV13 CKT: 1
                : 60270 MPLEGV13 - 60233 PARKERS3 CKT: 1
  670     1     : ** MULTIPLE CONTINGENCY **                452.6   452.2   448.0   448.0   101.0   100.9     0.1
                : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
                : 63031 BUNKER 3 - 60160 SHERCO 3 CKT: 1
                : 63031 BUNKER 3 - 60202 COON CK3 CKT: 1
                : 60202 COON CK3 - 61487 CNCMID2Y CKT: 1
                : 61487 CNCMID2Y - 60203 COON CK7 CKT: 1
                : 61487 CNCMID2Y - 60655 CNCTER29 CKT: 1
                : 63046 BUNKER 4 - 63031 BUNKER 3 CKT: 1
  009   4       : ** MULTIPLE CONTINGENCY **                446.5   446.1   448.0   448.0    99.7    99.6     0.1
                : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
                : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
                : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
                : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
                : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
                : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
  SINGLE 975    : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1   435.0   434.9   448.0   448.0    97.1    97.1     0.0
  SHC-CNC/BUL3: ** MULTIPLE CONTINGENCY **                421.9   421.5   448.0   448.0    94.2    94.1     0.1
                : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
                : 60160 SHERCO 3 - 63031 BUNKER 3 CKT: 1
  CNC-DKN/SHC3: ** MULTIPLE CONTINGENCY **                416.1   415.6   448.0   448.0    92.9    92.8     0.1
                : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1
                : 60202 COON CK3 - 60272 MPLEGV23 CKT: 1
  009   6       : ** MULTIPLE CONTINGENCY **                414.6   414.3   448.0   448.0    92.6    92.5     0.1
                : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
                : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
                : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
                : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
                : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
  670     3     : ** MULTIPLE CONTINGENCY **                413.7   413.4   448.0   448.0    92.4    92.3     0.1
                : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
                : 60202 COON CK3 - 61487 CNCMID2Y CKT: 1
                : 61487 CNCMID2Y - 60203 COON CK7 CKT: 1
                : 61487 CNCMID2Y - 60655 CNCTER29 CKT: 1
  CNC-SHC/BUL3: ** MULTIPLE CONTINGENCY **                405.6   405.2   448.0   448.0    90.5    90.5     0.0
                : 60202 COON CK3 - 60160 SHERCO 3 CKT: 1
                : 60202 COON CK3 - 63031 BUNKER 3 CKT: 1

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 245) 60119 LKYNKTN7 - 60171 LYON CO7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 984    : 60119 LKYNKTN7 - 60171 LYON CO7 CKT: C   262.1   261.3   274.0   274.0    93.8    93.5     0.3

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 246) 63223 HOOT LK7 - 63233 EDGETAP7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
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 SINGLE 2055 : 63051 HENNING4 - 63331 FERGSFL4 CKT: 1    97.5    97.4    96.0    96.0   100.4   100.2     0.2
 SINGLE 2054 : 63051 HENNING4 - 63052 INMAN  4 CKT: 1    95.6    95.4    96.0    96.0    98.0    97.8     0.2
 SINGLE 1013 : 60133 SHEYNNE4 - 63336 AUDUBON4 CKT: 1    88.7    88.3    96.0    96.0    93.2    92.4     0.8

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 247) 60133 SHEYNNE4 - 66754 MAPLE R4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1014 : 60133 SHEYNNE4 - 66435 FARGO  4 CKT: 1   285.7   285.6   318.0   318.0    90.5    90.5     0.0

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 248) 66203 FARGO  8 - 66436 FARGO  7 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1014 : 60133 SHEYNNE4 - 66435 FARGO  4 CKT: 1    92.8    92.8   100.0   100.0    92.8    92.8     0.0

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 249) 66203 FARGO  8 - 67000 MAPLE R8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1014 : 60133 SHEYNNE4 - 66435 FARGO  4 CKT: 1    76.7    76.7    41.0    41.0   179.2   179.2     0.0
 SHY-CAS/CAS7: ** MULTIPLE CONTINGENCY **                60.9    60.9    41.0    41.0   142.5   142.4     0.1
             : 60134 SHEYNNE7 - 60135 CASS CO7 CKT: 1
             : 60134 SHEYNNE7 - 66761 MODEROW7 CKT: 1
 SINGLE 2585 : 66783 MAPLE RT - 67000 MAPLE R8 CKT: 1    58.1    58.1    41.0    41.0   135.7   135.7     0.0
 SINGLE 1023 : 60136 MAPLE R7 - 66783 MAPLE RT CKT: 1    58.1    58.1    41.0    41.0   135.7   135.7     0.0
 SINGLE 1022 : 60136 MAPLE R7 - 66754 MAPLE R4 CKT: 1    52.6    52.6    41.0    41.0   123.4   123.4     0.0
 535       1 : ** MULTIPLE CONTINGENCY **                40.7    40.7    41.0    41.0    95.4    95.3     0.1
             : 60134 SHEYNNE7 - 60135 CASS CO7 CKT: 1
             : 66761 MODEROW7 - 60134 SHEYNNE7 CKT: 1
             : 66761 MODEROW7 - 60135 CASS CO7 CKT: 1
             : 60135 CASS CO7 - 60137 REDRIVR7 CKT: 1
 SINGLE 1019 : 60135 CASS CO7 - 60137 REDRIVR7 CKT: 1    40.6    40.6    41.0    41.0    95.1    95.2    -0.1

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 250) 60136 MAPLE R7 - 66754 MAPLE R4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SHY-CAS/CAS7: ** MULTIPLE CONTINGENCY **               261.9   261.9   187.0   187.0   140.0   140.1    -0.1
             : 60134 SHEYNNE7 - 60135 CASS CO7 CKT: 1
             : 60134 SHEYNNE7 - 66761 MODEROW7 CKT: 1
 SINGLE 1015 : 60133 SHEYNNE4 - 66754 MAPLE R4 CKT: 1   179.9   179.9   187.0   187.0    96.2    96.2     0.0

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 251) 60134 SHEYNNE7 - 66761 MODEROW7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1016 : 60134 SHEYNNE7 - 60135 CASS CO7 CKT: 1   150.3   150.3   119.0   119.0   124.9   124.9     0.0
 SINGLE 1022 : 60136 MAPLE R7 - 66754 MAPLE R4 CKT: 1   128.2   128.2   119.0   119.0   107.5   107.5     0.0
 SINGLE 1021 : 60136 MAPLE R7 - 60137 REDRIVR7 CKT: 1   126.8   126.8   119.0   119.0   107.4   107.4     0.0

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 252) 60135 CASS CO7 - 66761 MODEROW7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1016 : 60134 SHEYNNE7 - 60135 CASS CO7 CKT: 1   131.7   131.7   119.0   119.0   110.0   110.0     0.0
 SINGLE 1022 : 60136 MAPLE R7 - 66754 MAPLE R4 CKT: 1   109.8   109.8   119.0   119.0    92.6    92.6     0.0

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 253) 60134 SHEYNNE7 - 60135 CASS CO7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1018 : 60134 SHEYNNE7 - 66761 MODEROW7 CKT: 1   148.3   148.3   119.0   119.0   123.9   124.0    -0.1
 SINGLE 1020 : 60135 CASS CO7 - 66761 MODEROW7 CKT: 1   132.8   132.8   119.0   119.0   110.8   110.9    -0.1
 SINGLE 1021 : 60136 MAPLE R7 - 60137 REDRIVR7 CKT: 1   116.2   116.2   119.0   119.0    99.1    99.0     0.1
 SINGLE 1022 : 60136 MAPLE R7 - 66754 MAPLE R4 CKT: 1   117.6   117.6   119.0   119.0    99.1    99.1     0.0

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 254) 60144 DGLASCO7 - 60749 DGLAS C8 CKT:  P          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
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 750          : ** MULTIPLE CONTINGENCY **                 49.8    49.6    47.0    47.0   105.9   105.5     0.4
              : 62817 LSAUKTP7 - 60144 DGLASCO7 CKT: 1
              : 60144 DGLASCO7 - 60749 DGLAS C8 CKT: 1

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 255) 60742 PANTHER8 - 63054 PANTHER4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 3395 : 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1    89.3    89.1    70.0    70.0   127.5   127.3     0.2
 SINGLE 3069 : 60728 FRANKLN8 - 60770 BIRCH R8 CKT: C    76.3    76.3    70.0    70.0   109.0   108.9     0.1
 SINGLE 3037 : 60677 HENRYTR8 - 60770 BIRCH R8 CKT: C    73.7    73.6    70.0    70.0   105.2   105.2     0.0
 SINGLE 1053 : 60148 MINVALY7 - 61954 REDFLST7 CKT: P    72.8    72.8    70.0    70.0   104.0   104.0     0.0
 SINGLE 1042 : 60145 FRANKLN7 - 61954 REDFLST7 CKT: P    69.4    68.9    70.0    70.0    99.1    98.5     0.6

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 256) 60371 ERIE RD7 - 66508 S3     7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1049 : 60148 MINVALY7 - 60171 LYON CO7 CKT: 1   142.4   141.8   140.0   140.0   101.9   101.5     0.4

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 257) 60683 MINNVAL8 - 60684 YELWMED8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1085 : 60170 MARSHAL7 - 60171 LYON CO7 CKT: 1    48.9    48.8    47.0    47.0   105.7   105.3     0.4
 SINGLE 1049 : 60148 MINVALY7 - 60171 LYON CO7 CKT: 1    48.5    48.4    47.0    47.0   104.0   103.6     0.4
 SINGLE 1373 : 60371 ERIE RD7 - 66508 S3     7 CKT: 1    42.7    42.5    47.0    47.0    91.5    91.1     0.4
 505          : ** MULTIPLE CONTINGENCY **                 42.2   .....    47.0   .....    90.2   .....   *NEW*
              : 66551 GRANITF7 - 66508 S3     7 CKT: 1
              : 66552 MARS ER7 - 66508 S3     7 CKT: 1
              : 60371 ERIE RD7 - 66508 S3     7 CKT: 1

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 258) 66508 S3     7 - 66551 GRANITF7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1049 : 60148 MINVALY7 - 60171 LYON CO7 CKT: 1   111.3   110.8   120.0   120.0    93.7    93.3     0.4

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 259) 60148 MINVALY7 - 60683 MINNVAL8 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1051 : 60148 MINVALY7 - 60683 MINNVAL8 CKT: 1    42.9    42.9    47.0    47.0    91.3    91.4    -0.1

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 260) 60148 MINVALY7 - 60149 MINVALT4 CKT:  C          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1056 : 60150 MNVLTAP4 - 66550 GRANITF4 CKT: 1   193.2   192.4   187.0   187.0   103.3   102.9     0.4

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 261) 62925 DICKNSN7 - 62947 DICKIN 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 710   2      : ** MULTIPLE CONTINGENCY **                 54.0    54.0    46.7    46.7   115.7   115.7     0.0
              : 62925 DICKNSN7 - 60206 CROWRVR7 CKT: 1
              : 62925 DICKNSN7 - 62667 ST BONI7 CKT: 1
              : 62667 ST BONI7 - 60277 WWACNIA7 CKT: 1
              : 62667 ST BONI7 - 63021 ST BONI8 CKT: 1
 SINGLE 1171 : 60206 CROWRVR7 - 62925 DICKNSN7 CKT: 1    50.1    50.1    46.7    46.7   107.3   107.3     0.0
 665          : ** MULTIPLE CONTINGENCY **                 48.7    48.7    46.7    46.7   104.2   104.2     0.0
              : 63043 ELK RIV4 - 60152 MNTCELO4 CKT: 1
              : 63043 ELK RIV4 - 62134 ELKR14S8 CKT: 1
 SINGLE 1169 : 60206 CROWRVR7 - 60652 CROWRV 8 CKT: 1    47.8    47.8    46.7    46.7   102.4   102.4     0.0
 SINGLE 1781 : 62134 ELKR14S8 - 63043 ELK RIV4 CKT: 1    45.1    45.1    46.7    46.7    96.7    96.6     0.1
 SINGLE 1381 : 60652 CROWRV 8 - 62931 DELANO 8 CKT: 1    45.1    45.1    46.7    46.7    96.6    96.6     0.0
 CNC-DKN/SHC3: ** MULTIPLE CONTINGENCY **                 44.6    44.6    46.7    46.7    95.6    95.5     0.1
              : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1
              : 60202 COON CK3 - 60272 MPLEGV23 CKT: 1
 009   4      : ** MULTIPLE CONTINGENCY **                 44.7    44.6    46.7    46.7    95.6    95.6     0.0
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              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
              : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
              : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
              : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
              : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
  SINGLE 1158 : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1    44.6    44.6    46.7    46.7    95.5    95.4     0.1
  SINGLE 1060 : 60152 MNTCELO4 - 63043 ELK RIV4 CKT: 1    44.2    44.2    46.7    46.7    94.7    94.7     0.0
  SINGLE 2004 : 62931 DELANO 8 - 62941 CRCRNSW8 CKT: 1    43.9    43.9    46.7    46.7    94.0    94.0     0.0
  009   8     : ** MULTIPLE CONTINGENCY **               43.8    43.7    46.7    46.7    93.7    93.6     0.1
              : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
              : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
              : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
              : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
              : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
  655         : ** MULTIPLE CONTINGENCY **               43.7    43.7    46.7    46.7    93.6    93.6     0.0
              : 62924 MEDINA 7 - 60206 CROWRVR7 CKT: 1
              : 62924 MEDINA 7 - 62951 MEDINA 8 CKT: 1
  SINGLE 1996 : 62924 MEDINA 7 - 62951 MEDINA 8 CKT: 1    43.3    43.3    46.7    46.7    92.7    92.7     0.0
  SINGLE 1221 : 60233 PARKERS3 - 60270 MPLEGV13 CKT: 1    43.0    43.0    46.7    46.7    92.0    92.0     0.0
  PKL-DKN/ECK3: ** MULTIPLE CONTINGENCY **               43.0    43.0    46.7    46.7    92.0    92.0     0.0
              : 60233 PARKERS3 - 60270 MPLEGV13 CKT: 1
              : 60233 PARKERS3 - 60114 ELM CRK3 CKT: 1
  SINGLE 1278 : 60270 MPLEGV13 - 63030 DICKNSN3 CKT: 1    42.9    42.9    46.7    46.7    91.8    91.9    -0.1
  009   5     : ** MULTIPLE CONTINGENCY **               42.9    42.9    46.7    46.7    91.8    91.8     0.0
              : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
              : 63030 DICKNSN3 - 60270 MPLEGV13 CKT: 1
              : 60270 MPLEGV13 - 60233 PARKERS3 CKT: 1
  SINGLE 2037 : 63031 BUNKER 3 - 63046 BUNKER 4 CKT: 1    42.6    42.6    46.7    46.7    91.2    91.1     0.1
  SINGLE 1057 : 60151 MNTCELO3 - 60152 MNTCELO4 CKT: 1    42.1    42.1    46.7    46.7    90.1    90.1     0.0

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 262) 63031 BUNKER 3 - 63046 BUNKER 4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1060 : 60152 MNTCELO4 - 63043 ELK RIV4 CKT: 1   341.8   341.8   336.0   336.0   101.7   101.7     0.0
  665         : ** MULTIPLE CONTINGENCY **               314.6   314.5   336.0   336.0    93.6    93.6     0.0
              : 63043 ELK RIV4 - 60152 MNTCELO4 CKT: 1
              : 63043 ELK RIV4 - 62134 ELKR14S8 CKT: 1

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 263) 60163 WST CLD7 - 60732 WST CLD8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 3053 : 60710 FARM TP8 - 62839 BGFSHTP8 CKT: 1    55.9    55.9    47.0    47.0   119.0   119.0     0.0
  500         : ** MULTIPLE CONTINGENCY **               49.5    49.5    47.0    47.0   105.4   105.4     0.0
              : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
              : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1
  SINGLE 1366 : 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C    49.4    49.4    47.0    47.0   105.0   105.1    -0.1
  SINGLE 2053 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1    46.7    46.7    47.0    47.0    99.3    99.4    -0.1
  SINGLE 1080 : 60162 WAKEFLD7 - 60717 WAKEFLD8 CKT: 1    45.3    45.3    47.0    47.0    96.5    96.5     0.0
  SINGLE 3091 : 60750 OSAKIS 8 - 62820 W UNION8 CKT: 1    44.7    44.7    47.0    47.0    95.2    95.2     0.0
  SINGLE 3106 : 60768 ELRSATP8 - 62824 ZION TP8 CKT: 1    42.7    42.6    47.0    47.0    90.8    90.7     0.1

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 264) 60749 DGLAS C8 - 60750 OSAKIS 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 3099 : 60760 PAYNES 8 - 62824 ZION TP8 CKT: 1    41.3    41.3    37.0    37.0   111.1   111.1     0.0
  SINGLE 3106 : 60768 ELRSATP8 - 62824 ZION TP8 CKT: 1    40.8    40.5    37.0    37.0   109.4   108.6     0.8
  SINGLE 1069 : 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C    39.1    39.1    37.0    37.0   103.9   103.7     0.2
  SINGLE 1366 : 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C    39.1    39.0    37.0    37.0   103.8   103.7     0.1
  500         : ** MULTIPLE CONTINGENCY **               39.0    39.0    37.0    37.0   103.7   103.6     0.1
              : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
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              : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1
  SINGLE 1434 : 60753 MEIRGRV8 - 60768 ELRSATP8 CKT: 1    37.4    37.2    37.0    37.0   100.4    99.9     0.5
  SINGLE 1082 : 60163 WST CLD7 - 60732 WST CLD8 CKT: 1    37.3    37.3    37.0    37.0    99.4    99.4     0.0
  SINGLE 1432 : 60752 BLCKOAK8 - 60753 MEIRGRV8 CKT: 1    36.8    36.6    37.0    37.0    98.8    98.0     0.8
  SINGLE 1435 : 60755 FREEPRT8 - 60756 ALBANY 8 CKT: 1    36.0    36.0    37.0    37.0    96.7    96.6     0.1
  SINGLE 2053 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1    36.2    36.2    37.0    37.0    95.9    95.8     0.1
  SINGLE 1430 : 60748 WESTPRT8 - 60749 DGLAS C8 CKT: 1    34.4    34.2    37.0    37.0    90.9    90.5     0.4

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 265) 60750 OSAKIS 8 - 62820 W UNION8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 3099 : 60760 PAYNES 8 - 62824 ZION TP8 CKT: 1    36.7    36.7    37.0    37.0   103.3   103.3     0.0
  SINGLE 3106 : 60768 ELRSATP8 - 62824 ZION TP8 CKT: 1    36.2    35.9    37.0    37.0   101.7   100.8     0.9
  SINGLE 1069 : 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C    36.0    36.0    37.0    37.0    96.2    96.1     0.1
  SINGLE 1366 : 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C    36.0    36.0    37.0    37.0    96.2    96.1     0.1
  500         : ** MULTIPLE CONTINGENCY **                36.0    35.9    37.0    37.0    96.1    96.0     0.1
              : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
              : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1
  SINGLE 1434 : 60753 MEIRGRV8 - 60768 ELRSATP8 CKT: 1    33.1    33.0    37.0    37.0    92.7    92.1     0.6
  SINGLE 1082 : 60163 WST CLD7 - 60732 WST CLD8 CKT: 1    33.0    33.0    37.0    37.0    91.7    91.6     0.1
  SINGLE 1432 : 60752 BLCKOAK8 - 60753 MEIRGRV8 CKT: 1    32.6    32.4    37.0    37.0    90.9    90.2     0.7

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 266) 62427 WILLMAR8 - 63050 WILLMAR4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1714 : 62005 KERKHOT7 - 62425 WILLMAR7 CKT: C    84.8    84.8    84.0    84.0   100.9   100.9     0.0
  SINGLE 1889 : 62425 WILLMAR7 - 62427 WILLMAR8 CKT: 1    84.8    84.8    84.0    84.0   100.9   100.9     0.0
  640         : ** MULTIPLE CONTINGENCY **                84.8    84.8    84.0    84.0   100.9   100.9     0.0
              : 62425 WILLMAR7 - 62427 WILLMAR8 CKT: 1
              : 62425 WILLMAR7 - 62005 KERKHOT7 CKT: C
  690         : ** MULTIPLE CONTINGENCY **                84.8    84.8    84.0    84.0   100.9   101.0    -0.1
              : 62425 WILLMAR7 - 62005 KERKHOT7 CKT: C
              : 60357 MAYNARD7 - 62005 KERKHOT7 CKT: 1
              : 62005 KERKHOT7 - 62006 KERKHO 7 CKT: 1
              : 62006 KERKHO 7 - 62001 BENSON 7 CKT: 1
  690    P1   : ** MULTIPLE CONTINGENCY **                84.8    84.8    84.0    84.0   100.9   101.0    -0.1
              : 62425 WILLMAR7 - 62005 KERKHOT7 CKT: C
              : 60357 MAYNARD7 - 62005 KERKHOT7 CKT: 1
              : 62005 KERKHOT7 - 62006 KERKHO 7 CKT: 1
              : 62006 KERKHO 7 - 62001 BENSON 7 CKT: 1
  SINGLE 1069 : 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C    77.8    77.7    84.0    84.0    92.7    92.5     0.2
  SINGLE 1366 : 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C    77.2    77.1    84.0    84.0    91.9    91.8     0.1

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 267) 63219 GRANTCO7 - 66555 MORRIS 7 CKT:  1           PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2194 : 63329 WAHPETN4 - 63331 FERGSFL4 CKT: 1   112.3   111.9    96.0    96.0   119.3   118.9     0.4
  SINGLE 2102 : 63219 GRANTCO7 - 63223 HOOT LK7 CKT: 1    96.0    95.8    96.0    96.0   102.6   102.4     0.2
  SINGLE 2192 : 63327 HANKSON4 - 63329 WAHPETN4 CKT: 1    91.6    91.3    96.0    96.0    97.8    97.4     0.4
  SINGLE 2189 : 63314 BIGSTON4 - 63325 BROWNSV4 CKT: 1    86.0    85.7    96.0    96.0    91.8    91.5     0.3
  SINGLE 3434 : 63223 HOOT LK7 - 63324 HOOTLK3G CKT: 1    85.6    85.3    96.0    96.0    90.9    90.5     0.4
  SINGLE 1069 : 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C    86.0    85.7    96.0    96.0    90.7    90.4     0.3
  SINGLE 1366 : 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C    85.9    85.6    96.0    96.0    90.7    90.4     0.3
  SINGLE 2191 : 63325 BROWNSV4 - 63327 HANKSON4 CKT: 1    85.0    84.7    96.0    96.0    90.7    90.4     0.3
  795         : ** MULTIPLE CONTINGENCY **                85.5   .....    96.0   .....    90.0   .....   *NEW*
              : 66550 GRANITF4 - 60150 MNVLTAP4 CKT: 1
              : 60148 MINVALY7 - 60149 MINVALT4 CKT: C
              : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1
              : 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1
              : 63054 PANTHER4 - 60742 PANTHER8 CKT: 1

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 268) 60162 WAKEFLD7 - 60717 WAKEFLD8 CKT:  1           PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
```

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-----------------------------------------------------------------------------------------------------------------
  SINGLE 3100 : 60760 PAYNES 8 - 62835 ROSCOTP8 CKT: P    71.3    71.3    70.0    70.0   101.8   101.8     0.0
  SINGLE 3052 : 60710 FARM TP8 - 62837 MUNSNTP8 CKT: 1    67.5    67.5    70.0    70.0    96.4    96.4     0.0
  SINGLE 1082 : 60163 WST CLD7 - 60732 WST CLD8 CKT: 1    67.1    67.1    70.0    70.0    95.9    95.9     0.0

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 269) 60170 MARSHAL7 - 60373 SOUTH E7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1086 : 60170 MARSHAL7 - 60371 ERIE RD7 CKT: 1   139.9   139.6   127.9   127.9   108.9   108.6     0.3

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 270) 60371 ERIE RD7 - 60372 SARATOG7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1086 : 60170 MARSHAL7 - 60371 ERIE RD7 CKT: 1   119.5   119.2   127.9   127.9    94.3    94.1     0.2

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 271) 60372 SARATOG7 - 60373 SOUTH E7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1086 : 60170 MARSHAL7 - 60371 ERIE RD7 CKT: 1   124.9   124.6   127.9   127.9    97.9    97.7     0.2

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 272) 60305 EAU CLA5 - 60317 WHEATON5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   266.7   265.5   272.0   272.0    94.5    94.0     0.5

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 273) 60312 PINE LK5 - 60313 PINE LK7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1118 : 60187 AS KING7 - 60325 WILOWRV7 CKT: 1   118.7   118.6   112.0   112.0   106.0   105.9     0.1

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 274) 60343 WILLPIP7 - 62228 APPVLTW7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1119 : 60188 RIVERWD7 - 60200 BLK DG27 CKT: 1   195.6   195.6   224.1   224.1    94.9    94.9     0.0

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 275) 60256 WSTGATE7 - 60894 WSTGAT28 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1528 : 60889 CHASKAS8 - 60892 EXCELSR8 CKT: 1    65.9    65.9    47.0    47.0   140.3   140.3     0.0
  SCO-MRR/EXC7: ** MULTIPLE CONTINGENCY **                66.0    66.0    47.0    47.0   140.3   140.3     0.0
              : 60244 SCOTTCO7 - 60367 MNRIVER7 CKT: 1
              : 60890 SCOTTCO8 - 60889 CHASKAS8 CKT: 1
  SINGLE 1527 : 60889 CHASKAS8 - 60890 SCOTTCO8 CKT: 1    65.9    65.9    47.0    47.0   140.2   140.2     0.0
  SINGLE 1530 : 60892 EXCELSR8 - 60893 DEEPHVN8 CKT: 1    45.4    45.4    47.0    47.0    96.6    96.6     0.0
  SINGLE 1129 : 60193 BLUE LK7 - 60215 HYLNDLK7 CKT: 1    42.4    42.4    47.0    47.0    90.2    90.2     0.0

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 276) 61477 BLL TR6Y - 60026 BLL  73G CKT:  6          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1130 : 60193 BLUE LK7 - 61476 BLL TR5Y CKT: 5    55.2    55.1    60.0    60.0    92.0    91.8     0.2
  700    1    : ** MULTIPLE CONTINGENCY **                54.4    54.3    60.0    60.0    90.7    90.6     0.1
              : 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1
              : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
              : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1

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 277) 61477 BLL TR6Y - 60027 BLL  74G CKT:  6          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1130 : 60193 BLUE LK7 - 61476 BLL TR5Y CKT: 5    56.9    56.8    60.0    60.0    94.8    94.6     0.2
  700    1    : ** MULTIPLE CONTINGENCY **                56.2    56.1    60.0    60.0    93.6    93.5     0.1
              : 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1
              : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
              : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1
```

```
 BLL-PRI/IVH3: ** MULTIPLE CONTINGENCY **                55.6    55.5    60.0    60.0    92.6    92.4     0.2
             : 60192 BLUE LK3 - 60105 PR ISLD3 CKT: 1
             : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1

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 278) 61476 BLL TR5Y - 60024 BLL  71G CKT:  5          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1131 : 60193 BLUE LK7 - 61477 BLL TR6Y CKT: 6    55.0    54.9    60.0    60.0    91.7    91.5     0.2
 700    1    : ** MULTIPLE CONTINGENCY **                54.4    54.3    60.0    60.0    90.7    90.6     0.1
             : 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1
             : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
             : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1

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 279) 61476 BLL TR5Y - 60025 BLL  72G CKT:  5          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1131 : 60193 BLUE LK7 - 61477 BLL TR6Y CKT: 6    55.0    54.9    60.0    60.0    91.7    91.5     0.2
 700    1    : ** MULTIPLE CONTINGENCY **                54.4    54.3    60.0    60.0    90.7    90.6     0.1
             : 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1
             : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
             : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1

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 280) 60202 COON CK3 - 61488 CNCMID1Y CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 022       1 : ** MULTIPLE CONTINGENCY **               606.9   606.5   672.0   672.0    90.3    90.2     0.1
             : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
             : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
             : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
             : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
             : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
             : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
             : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
             : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
             : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
             : 61491 TERMID2Y - 61188 TERTER29 CKT: 1

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 281) 60203 COON CK7 - 61488 CNCMID1Y CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 022       1 : ** MULTIPLE CONTINGENCY **               606.9   606.5   672.0   672.0    90.3    90.2     0.1
             : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
             : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
             : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
             : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
             : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
             : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
             : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
             : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
             : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
             : 61491 TERMID2Y - 61188 TERTER29 CKT: 1

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 282) 60178 CHAMP T7 - 60177 CHAMPLN7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 2908 : 60115 ELMCRK 7 - 62107 HENEPIN7 CKT: P   135.3   134.9   140.0   140.0    97.1    96.9     0.2
 009   8     : ** MULTIPLE CONTINGENCY **               132.5   132.3   140.0   140.0    95.1    94.9     0.2
             : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
             : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
             : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
             : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
             : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
             : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
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             : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
  SINGLE 2958 : 60232 OSSEO  7 - 62107 HENEPIN7 CKT: P   131.5   131.2   140.0   140.0    94.4    94.2     0.2
  SINGLE 1166 : 60203 COON CK7 - 62090 PRKWOOD7 CKT: 1   129.4   129.2   140.0   140.0    94.0    93.8     0.2

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 283) 62101 BUNKER 8 - 62147 BNKRLK 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  009   2     : ** MULTIPLE CONTINGENCY **                72.5    72.5    67.9    67.9   104.7   104.6     0.1
             : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
             : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
             : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1
             : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
             : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
             : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
             : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
  SINGLE 1763 : 62121 VILGTEN8 - 62132 PRKWOOD8 CKT: 1    66.8    66.7    67.9    67.9    96.4    96.3     0.1

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 284) 62940 GRNFNSP8 - 62950 ROCKFRD8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  DKN-CRO/STB7: ** MULTIPLE CONTINGENCY **                33.3    33.3    30.2    30.2   107.9   108.0    -0.1
             : 62925 DICKNSN7 - 60206 CROWRVR7 CKT: 1
             : 62925 DICKNSN7 - 62667 ST BONI7 CKT: 1
  SINGLE 1171 : 60206 CROWRVR7 - 62925 DICKNSN7 CKT: 1    29.3    29.3    30.2    30.2    95.2    95.2     0.0

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 285) 60184 APACHET7 - 60185 ARDNHLS7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1188 : 60212 GOOSELK7 - 60222 KOLMNLK7 CKT: 1   220.7   220.5   229.0   229.0    96.6    96.5     0.1

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 286) 60233 PARKERS3 - 61490 PKLMID1Y CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1222 : 60233 PARKERS3 - 61489 PKLMID2Y CKT: 1   472.6   472.6   450.0   450.0   105.0   105.0     0.0
  SINGLE 1226 : 60234 PARKERS7 - 61489 PKLMID2Y CKT: 1   472.6   472.6   450.0   450.0   105.0   105.0     0.0

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 287) 60234 PARKERS7 - 61490 PKLMID1Y CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1222 : 60233 PARKERS3 - 61489 PKLMID2Y CKT: 1   472.6   472.6   450.0   450.0   105.0   105.0     0.0
  SINGLE 1226 : 60234 PARKERS7 - 61489 PKLMID2Y CKT: 1   472.6   472.6   450.0   450.0   105.0   105.0     0.0

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 288) 60233 PARKERS3 - 61489 PKLMID2Y CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1223 : 60233 PARKERS3 - 61490 PKLMID1Y CKT: 1   471.9   471.8   450.0   450.0   104.9   104.9     0.0
  SINGLE 1227 : 60234 PARKERS7 - 61490 PKLMID1Y CKT: 1   471.9   471.9   450.0   450.0   104.9   104.9     0.0

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 289) 60234 PARKERS7 - 61489 PKLMID2Y CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1223 : 60233 PARKERS3 - 61490 PKLMID1Y CKT: 1   471.8   471.8   450.0   450.0   104.9   104.9     0.0
  SINGLE 1227 : 60234 PARKERS7 - 61490 PKLMID1Y CKT: 1   471.9   471.9   450.0   450.0   104.9   104.9     0.0

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 290) 60234 PARKERS7 - 60346 CEDARLK7 CKT:  P          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  EDA-EDP/NMC7: ** MULTIPLE CONTINGENCY **               258.5   258.5   239.0   239.0   114.0   114.0     0.0
             : 60208 EDINA  7 - 60263 EDEN PR7 CKT: 1
             : 60208 EDINA  7 - 60280 NINE MI7 CKT: 1
  SINGLE 1224 : 60234 PARKERS7 - 60259 BASCRK 7 CKT: 1   211.5   211.5   239.0   239.0    90.4    90.4     0.0

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 291) 60236 REDROCK3 - 60238 REDROCK7 CKT:  P          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1230 : 60236 REDROCK3 - 60238 REDROCK7 CKT: P   .....   635.9   .....   672.0   .....    94.6  *ELIM*

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 292) 60224 LONG LK7 - 60230 OAKDALE7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  RRK-AFT/WDY7: ** MULTIPLE CONTINGENCY **               287.9   287.9   239.0   239.0   121.9   121.9     0.0
              : 60238 REDROCK7 - 60179 AFTON  7 CKT: 1
              : 60238 REDROCK7 - 60344 WOODBUR7 CKT: 1
  SINGLE 1238 : 60238 REDROCK7 - 60344 WOODBUR7 CKT: 1   287.9   287.9   239.0   239.0   121.8   121.8     0.0

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 293) 60889 CHASKAS8 - 60892 EXCELSR8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1269 : 60256 WSTGATE7 - 60894 WSTGAT28 CKT: 1    64.9    64.9    68.0    68.0    94.5    94.5     0.0
  SINGLE 1531 : 60893 DEEPHVN8 - 60894 WSTGAT28 CKT: 1    64.9    64.9    68.0    68.0    94.5    94.5     0.0

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 294) 60262 EDEN PR3 - 60263 EDEN PR7 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1273 : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 1   497.4   497.4   448.0   448.0   111.0   111.0     0.0

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 295) 60262 EDEN PR3 - 60263 EDEN PR7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  705       2 : ** MULTIPLE CONTINGENCY **               545.4   544.9   448.0   448.0   121.8   121.6     0.2
              : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1
              : 60233 PARKERS3 - 60262 EDEN PR3 CKT: 1
              : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 2
  SINGLE 1274 : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 2   515.5   515.4   448.0   448.0   115.1   115.0     0.1
  705       4 : ** MULTIPLE CONTINGENCY **               510.3   510.2   448.0   448.0   113.9   113.9     0.0
              : 60233 PARKERS3 - 60262 EDEN PR3 CKT: 1
              : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 2

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 296) 60107 W FARIB7 - 62865 AIRTECH7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1276 : 60265 LOON TP7 - 60830 EASTWD18 CKT: P   134.6   134.3   139.0   139.0    96.5    96.3     0.2

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 297) 60658 IRONWD88 - 60665 IRONWD 9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1304 : 60295 BAYFRNT7 - 60657 BAYFRT88 CKT: 1    43.9    43.9    25.0    25.0   175.5   175.5     0.0
  SINGLE 1303 : 60295 BAYFRNT7 - 60350 GINGLES7 CKT: 1    35.2    35.1    25.0    25.0   140.7   140.5     0.2
  SINGLE 1296 : 60289 HURLEY 7 - 60350 GINGLES7 CKT: 1    28.6    28.6    25.0    25.0   114.5   114.3     0.2
  SINGLE 1294 : 60288 IRONWD 7 - 60289 HURLEY 7 CKT: 1    27.0    27.0    25.0    25.0   108.2   108.0     0.2

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 298) 60293 FRMSINN5 - 60664 FRMRSIN8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1298 : 60290 ST LAKE5 - 60663 STONELK8 CKT: 2    45.7    45.7    50.0    50.0    91.4    91.4     0.0

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 299) 60297 OSPREY 7 - 60662 BIGFALL8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1306 : 60296 SHELDNP7 - 60306 HOLCOMB7 CKT: 1    28.7    28.7    25.0    25.0   114.7   114.7     0.0
  SINGLE 1305 : 60296 SHELDNP7 - 60297 OSPREY 7 CKT: 1    25.6    25.6    25.0    25.0   102.5   102.5     0.0
  GNG-HUR/SAX7: ** MULTIPLE CONTINGENCY **                24.8    24.7    25.0    25.0    99.0    98.8     0.2
              : 60350 GINGLES7 - 60289 HURLEY 7 CKT: 1
              : 60657 BAYFRT88 - 61104 SAXONP88 CKT: 1

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 300) 60302 COULEE 5 - 60967 COULEE 8 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1314 : 60302 COULEE 5 - 60967 COULEE 8 CKT: 1   101.3   101.3   112.0   112.0    90.4    90.5    -0.1

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 301) 60302 COULEE 5 - 60967 COULEE 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1315 : 60302 COULEE 5 - 60967 COULEE 8 CKT: 2    79.0    79.0    70.0    70.0   112.8   112.9    -0.1

=================================================================================================================
 302) 60308 LACROSS5 - 60973 LAX    8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1329 : 60308 LACROSS5 - 60973 LAX    8 CKT: 2    67.9    67.8    70.0    70.0    97.0    96.9     0.1
  SINGLE 1315 : 60302 COULEE 5 - 60967 COULEE 8 CKT: 2    64.2    64.1    70.0    70.0    91.7    91.6     0.1

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 303) 60308 LACROSS5 - 60973 LAX    8 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1328 : 60308 LACROSS5 - 60973 LAX    8 CKT: 1    68.1    68.0    70.0    70.0    97.3    97.2     0.1
  SINGLE 1315 : 60302 COULEE 5 - 60967 COULEE 8 CKT: 2    64.5    64.4    70.0    70.0    92.1    92.0     0.1

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 304) 60305 EAU CLA5 - 61001 EAUCLAI8 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1354 : 60323 SEVN ML5 - 61071 SEVN ML8 CKT: 1   104.1   104.0   112.0   112.0    92.9    92.9     0.0
  SINGLE 1321 : 60305 EAU CLA5 - 61001 EAUCLAI8 CKT: 1   101.0   101.0   112.0   112.0    90.2    90.2     0.0

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 305) 60323 SEVN ML5 - 61071 SEVN ML8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1599 : 60997 T TRUAX8 - 61001 EAUCLAI8 CKT: 1   115.3   115.3   112.0   112.0   103.0   103.0     0.0
  SINGLE 1600 : 60997 T TRUAX8 - 61057 TRUAX  8 CKT: 1   115.3   115.3   112.0   112.0   103.0   103.0     0.0
  SINGLE 1610 : 61001 EAUCLAI8 - 61059 STRLNG18 CKT: 1   113.8   113.8   112.0   112.0   101.6   101.7    -0.1
  SINGLE 1321 : 60305 EAU CLA5 - 61001 EAUCLAI8 CKT: 1   113.7   113.7   112.0   112.0   101.5   101.5     0.0
  SINGLE 1605 : 61000 T FOLSO8 - 61059 STRLNG18 CKT: 1   109.4   109.4   112.0   112.0    97.7    97.7     0.0
  SINGLE 1604 : 61000 T FOLSO8 - 61058 MAD ST18 CKT: 1   109.4   109.4   112.0   112.0    97.7    97.7     0.0
  SINGLE 1596 : 60996 SHAWTOW8 - 61058 MAD ST18 CKT: 1   103.5   103.5   112.0   112.0    92.4    92.4     0.0

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 306) 60310 MONROCO5 - 60949 MONROCO8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1561 : 60953 WSTSALE8 - 60973 LAX    8 CKT: 1    75.8    75.6    70.0    70.0   108.3   108.0     0.3
  885         : ** MULTIPLE CONTINGENCY **                71.7    71.4    70.0    70.0   102.4   102.1     0.3
              : 69507 SENECA 5 - 69511 BELLCTR5 CKT: 1
              : 69507 SENECA 5 - 69523 GENOA  5 CKT: 1
  SINGLE 3207 : 60944 VIROQUA8 - 68812 WESTBY   CKT: 1    66.2    66.1    70.0    70.0    94.6    94.4     0.2
  SINGLE 3288 : 61056 T WESTB8 - 68812 WESTBY   CKT: 1    65.0    64.9    70.0    70.0    92.9    92.7     0.2
  SINGLE 3222 : 60966 JACKCO 8 - 68860 BROCKW_8 CKT: 1    64.9    64.8    70.0    70.0    92.8    92.5     0.3
  SINGLE 1325 : 60307 JACKSON5 - 60966 JACKCO 8 CKT: 1    64.1    64.0    70.0    70.0    91.6    91.4     0.2
  SINGLE 1324 : 60307 JACKSON5 - 60316 TREMVAL5 CKT: 1    64.1    63.9    70.0    70.0    91.5    91.3     0.2
  SINGLE 3245 : 60995 IRONMDT8 - 68860 BROCKW_8 CKT: 1    63.1   .....    70.0   .....    90.2   .....   *NEW*
  SINGLE 1570 : 60962 T ALB  8 - 60963 T BRF  8 CKT: 1    63.1   .....    70.0   .....    90.2   .....   *NEW*
  SINGLE 1571 : 60963 T BRF  8 - 60995 IRONMDT8 CKT: 1    63.1   .....    70.0   .....    90.2   .....   *NEW*

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 307) 60309 MRSHLND5 - 60977 MARSHLA8 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1330 : 60309 MRSHLND5 - 60977 MARSHLA8 CKT: 1   109.9   109.9   112.0   112.0    98.1    98.1     0.0

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 308) 60315 T-CRNRS7 - 60666 T CORNE8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1616 : 61006 WISSOTAG - 61250 LFY TAP8 CKT: 1   .....    56.3   .....    62.5   .....    90.2  *ELIM*
```

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==================================================================================================================
 309) 60307 JACKSON5 - 60966 JACKCO 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1558 : 60949 MONROCO8 - 60955 SPARTA28 CKT: 1    48.6    48.6    47.0    47.0   103.4   103.4     0.0
  SINGLE 1586 : 60979 TREMVAL8 - 60985 BLAIR  8 CKT: 1    46.6    46.6    47.0    47.0    99.2    99.1     0.1
  SINGLE 1590 : 60985 BLAIR  8 - 61139 T FLY C8 CKT: 1    44.6    44.6    47.0    47.0    94.9    94.8     0.1
  SINGLE 1665 : 61080 BAD TAP8 - 61139 T FLY C8 CKT: 1    44.1    44.1    47.0    47.0    93.9    93.8     0.1
  SINGLE 1344 : 60316 TREMVAL5 - 60979 TREMVAL8 CKT: 1    44.0    43.9    47.0    47.0    93.5    93.5     0.0

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 310) 60305 EAU CLA5 - 61001 EAUCLAI8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1354 : 60323 SEVN ML5 - 61071 SEVN ML8 CKT: 1   102.7   102.7   112.0   112.0    91.7    91.7     0.0

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 311) 60792 WFARBLT8 - 62869 WALCTTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1377 : 60650 WILMART8 - 60831 EASTWD28 CKT: 1    35.0    35.0    37.0    37.0    93.4    93.5    -0.1

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 312) 60826 TRAVRSE8 - 61974 ST PETER CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1377 : 60650 WILMART8 - 60831 EASTWD28 CKT: 1    52.4    52.4    48.0    48.0   117.8   117.6     0.2
  SINGLE 3157 : 60831 EASTWD28 - 62347 EAGLELK8 CKT: 1    48.1    48.1    48.0    48.0   106.7   106.5     0.2
  SINGLE 3129 : 60808 EAGLELK8 - 62347 EAGLELK8 CKT: 1    45.9    45.8    48.0    48.0   101.1   100.9     0.2
  SINGLE 3130 : 60808 EAGLELK8 - 62351 JMSTWTP8 CKT: 1    43.7    43.7    48.0    48.0    96.9    96.9     0.0

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 313) 60739 DASSEL 8 - 62617 BIGSWAN8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1419 : 60734 MONTRSE8 - 60891 DELANOT8 CKT: 1    34.6    34.6    37.0    37.0    93.9    93.9     0.0
  SINGLE 1379 : 60652 CROWRV 8 - 60891 DELANOT8 CKT: 1    34.6    34.6    37.0    37.0    93.8    93.8     0.0

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 314) 60295 BAYFRNT7 - 60657 BAYFRT88 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  BFT-GNG/SAX7: ** MULTIPLE CONTINGENCY **                59.0    59.0    50.0    50.0   118.0   118.0     0.0
              : 60295 BAYFRNT7 - 60350 GINGLES7 CKT: 1
              : 60657 BAYFRT88 - 61104 SAXONP88 CKT: 1
  SINGLE 1383 : 60657 BAYFRT88 - 61104 SAXONP88 CKT: 1    58.2    58.2    50.0    50.0   116.4   116.4     0.0
  GNG-HUR/SAX7: ** MULTIPLE CONTINGENCY **                58.0    58.0    50.0    50.0   116.0   116.1    -0.1
              : 60350 GINGLES7 - 60289 HURLEY 7 CKT: 1
              : 60657 BAYFRT88 - 61104 SAXONP88 CKT: 1
  SINGLE 1384 : 60658 IRONWD88 - 61104 SAXONP88 CKT: 1    53.4    53.4    50.0    50.0   106.7   106.7     0.0
  SINGLE 3027 : 60658 IRONWD88 - 60665 IRONWD 9 CKT: 1    45.9    45.9    50.0    50.0    91.8    91.8     0.0

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 315) 60748 WESTPRT8 - 60749 DGLAS C8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 3083 : 60743 BELGRAD8 - 62827 CROW LK8 CKT: 1    42.9    42.9    37.0    37.0   126.4   126.5    -0.1

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 316) 60743 BELGRAD8 - 60760 PAYNES 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1430 : 60748 WESTPRT8 - 60749 DGLAS C8 CKT: 1    48.2    48.2    36.0    36.0   166.6   166.5     0.1
  SINGLE 1429 : 60747 VILLARD8 - 60748 WESTPRT8 CKT: 1    41.3    41.3    36.0    36.0   132.6   132.4     0.2
  SINGLE 3087 : 60746 GLENWD 8 - 62756 LEVEN  8 CKT: 1    40.5    40.5    36.0    36.0   112.3   112.3     0.0
  SINGLE 2106 : 63222 ALEXAND7 - 67452 ALEXSS   CKT: 1    34.9    34.9    36.0    36.0    96.8    96.7     0.1
  SINGLE 2101 : 63219 GRANTCO7 - 63220 ELBOWLK7 CKT: 1    32.7    32.7    36.0    36.0    90.6    90.6     0.0

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 317) 60743 BELGRAD8 - 62827 CROW LK8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
```

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-----------------------------------------------------------------------------------------------------------------
  SINGLE 1430 : 60748 WESTPRT8 - 60749 DGLAS C8 CKT: 1    46.1    46.0    37.0    37.0   156.3   156.2     0.1
  SINGLE 1429 : 60747 VILLARD8 - 60748 WESTPRT8 CKT: 1    39.8    39.6    37.0    37.0   124.3   123.7     0.6
  SINGLE 3087 : 60746 GLENWD 8 - 62756 LEVEN  8 CKT: 1    34.6    34.6    37.0    37.0   104.2   104.2     0.0

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 318) 60744 BROOTEN8 - 62826 BANGRTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1430 : 60748 WESTPRT8 - 60749 DGLAS C8 CKT: 1    33.1    33.1    37.0    37.0   126.4   126.3     0.1
  SINGLE 1429 : 60747 VILLARD8 - 60748 WESTPRT8 CKT: 1    28.8    28.6    37.0    37.0    96.0    95.2     0.8

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 319) 60744 BROOTEN8 - 62827 CROW LK8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1430 : 60748 WESTPRT8 - 60749 DGLAS C8 CKT: 1    37.9    37.9    37.0    37.0   141.6   141.5     0.1
  SINGLE 1429 : 60747 VILLARD8 - 60748 WESTPRT8 CKT: 1    32.8    32.6    37.0    37.0   109.4   108.7     0.7

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 320) 60745 SEDAN  8 - 60767 WLMSTAP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1430 : 60748 WESTPRT8 - 60749 DGLAS C8 CKT: 1    25.7    25.7    37.0    37.0   105.3   105.2     0.1

=================================================================================================================
 321) 60745 SEDAN  8 - 62757 GLENWD 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1430 : 60748 WESTPRT8 - 60749 DGLAS C8 CKT: 1    23.9    23.8    37.0    37.0   104.8   104.7     0.1

=================================================================================================================
 322) 60746 GLENWD 8 - 62757 GLENWD 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1430 : 60748 WESTPRT8 - 60749 DGLAS C8 CKT: 1    21.0    21.0    37.0    37.0    94.8    94.8     0.0

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 323) 60767 WLMSTAP8 - 62826 BANGRTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1430 : 60748 WESTPRT8 - 60749 DGLAS C8 CKT: 1    30.6    30.5    37.0    37.0   118.7   118.6     0.1

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 324) 60760 PAYNES 8 - 62824 ZION TP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1431 : 60749 DGLAS C8 - 60750 OSAKIS 8 CKT: 1    43.4    43.4    48.0    48.0    92.4    92.4     0.0

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 325) 60905 FRMNGTN8 - 62259 LKMARN 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1461 : 60789 CIRCLTP8 - 60790 FAIRPRK8 CKT: 1    61.5    61.4    66.0    66.0    94.4    94.3     0.1
  SINGLE 1460 : 60788 VALLYTP8 - 60789 CIRCLTP8 CKT: 1    59.3    59.3    66.0    66.0    90.8    90.7     0.1

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 326) 60790 FAIRPRK8 - 60791 FARIBLT8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1463 : 60790 FAIRPRK8 - 60792 WFARBLT8 CKT: 1    80.0    79.8    48.0    48.0   165.7   165.5     0.2

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 327) 60829 WAS MUN8 - 61976 LOON LK8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1476 : 60806 WASECA 8 - 61976 LOON LK8 CKT: 1    62.8    62.7    67.0    67.0    91.3    91.1     0.2

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 328) 60915 HASTING8 - 62258 WHASTNG8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1484 : 60823 REDWING8 - 61031 BAY CIT8 CKT: 1    59.2    59.2    68.0    68.0    91.3    91.3     0.0
```

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 329) 60806 WASECA 8 - 61976 LOON LK8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1491 : 60829 WAS MUN8 - 61976 LOON LK8 CKT: 1    62.7    62.6    67.0    67.0    91.1    90.9     0.2

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 330) 60893 DEEPHVN8 - 60894 WSTGAT28 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SCO-MRR/EXC7: ** MULTIPLE CONTINGENCY **                65.1    65.1    62.0    62.0   107.9   107.9     0.0
              : 60244 SCOTTCO7 - 60367 MNRIVER7 CKT: 1
              : 60890 SCOTTCO8 - 60889 CHASKAS8 CKT: 1
  SINGLE 1528 : 60889 CHASKAS8 - 60892 EXCELSR8 CKT: 1    65.1    65.1    62.0    62.0   107.2   107.2     0.0
  SINGLE 1527 : 60889 CHASKAS8 - 60890 SCOTTCO8 CKT: 1    65.1    65.1    62.0    62.0   107.1   107.1     0.0

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 331) 60967 COULEE 8 - 69114 MT LAX   CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1579 : 60972 ONALASK8 - 60973 LAX    8 CKT: 1    55.1    55.1    47.0    47.0   117.9   117.9     0.0

==================================================================================================================
 332) 60823 REDWING8 - 60824 FRONTNC8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 3233 : 60982 ALMA   8 - 68874 ALMA 8   CKT: 1    52.1    52.1    48.0    48.0   118.9   118.9     0.0
  SINGLE 1587 : 60982 ALMA   8 - 60983 NELSON 8 CKT: 1    48.9    48.9    48.0    48.0   110.4   110.4     0.0

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 333) 60824 FRONTNC8 - 61960 LAKECITY CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 3233 : 60982 ALMA   8 - 68874 ALMA 8   CKT: 1    46.7    46.7    48.0    48.0   114.5   114.5     0.0
  SINGLE 1587 : 60982 ALMA   8 - 60983 NELSON 8 CKT: 1    44.1    44.1    48.0    48.0   105.9   105.9     0.0

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 334) 61071 SEVN ML8 - 68918 ELCO     CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1610 : 61001 EAUCLAI8 - 61059 STRLNG18 CKT: 1    73.6    73.6    48.0    48.0   148.9   148.8     0.1
  SINGLE 1605 : 61000 T FOLSO8 - 61059 STRLNG18 CKT: 1    65.9    65.9    48.0    48.0   133.4   133.3     0.1
  SINGLE 1604 : 61000 T FOLSO8 - 61058 MAD ST18 CKT: 1    65.9    65.9    48.0    48.0   133.4   133.4     0.0
  SINGLE 1596 : 60996 SHAWTOW8 - 61058 MAD ST18 CKT: 1    53.6    53.6    48.0    48.0   108.2   108.2     0.0

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 335) 61077 LONDON 8 - 68952 EQUITY   CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1610 : 61001 EAUCLAI8 - 61059 STRLNG18 CKT: 1    62.7    62.7    47.0    47.0   138.2   138.1     0.1
  SINGLE 1605 : 61000 T FOLSO8 - 61059 STRLNG18 CKT: 1    56.0    56.0    47.0    47.0   122.5   122.4     0.1
  SINGLE 1604 : 61000 T FOLSO8 - 61058 MAD ST18 CKT: 1    56.0    56.0    47.0    47.0   122.5   122.4     0.1
  SINGLE 1596 : 60996 SHAWTOW8 - 61058 MAD ST18 CKT: 1    44.9    44.9    47.0    47.0    96.8    96.7     0.1

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 336) 61054 RICE LK8 - 61143 RL TP1 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 3297 : 61072 POK TAP8 - 69028 T BARMUN CKT: 1    47.6    47.6    42.0    42.0   112.2   112.1     0.1
  SINGLE 1664 : 61074 T CAM N8 - 61075 CMR TAP8 CKT: 1    47.6    47.6    42.0    42.0   112.1   112.1     0.0
  SINGLE 1663 : 61072 POK TAP8 - 61075 CMR TAP8 CKT: 1    47.6    47.6    42.0    42.0   112.1   112.1     0.0
  SINGLE 1656 : 61054 RICE LK8 - 61074 T CAM N8 CKT: 1    42.4    42.4    42.0    42.0   104.5   104.4     0.1

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 337) 62124 ZIMERMN8 - 62149 N ER TP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1823 : 62273 MILACAD8 - 62301 MILACA 8 CKT: 1    76.3    76.3    53.0    53.0   164.4   164.4     0.0
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1    62.9    62.8    53.0    53.0   129.1   129.0     0.1
  SINGLE 1819 : 62271 LONGSDG8 - 62273 MILACAD8 CKT: 1    53.8    53.8    53.0    53.0   109.0   109.1    -0.1
  SINGLE 1692 : 61922 PRINCTAP - 62292 PRINCTN8 CKT: 1    46.7    46.7    53.0    53.0    93.4    93.4     0.0
  SINGLE 1820 : 62271 LONGSDG8 - 62292 PRINCTN8 CKT: 1    46.6    46.6    53.0    53.0    93.3    93.3     0.0
```

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 338) 62134 ELKR14S8 - 62968 ELKRNTH8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1823 : 62273 MILACAD8 - 62301 MILACA 8 CKT: 1    83.3    83.3    53.0    53.0   164.2   164.2     0.0
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1    66.6    66.6    53.0    53.0   129.0   128.8     0.2
  SINGLE 1819 : 62271 LONGSDG8 - 62273 MILACAD8 CKT: 1    56.6    56.6    53.0    53.0   109.0   109.0     0.0
  SINGLE 1692 : 61922 PRINCTAP - 62292 PRINCTN8 CKT: 1    48.7    48.7    53.0    53.0    93.3    93.3     0.0
  SINGLE 1820 : 62271 LONGSDG8 - 62292 PRINCTN8 CKT: 1    48.7    48.7    53.0    53.0    93.2    93.2     0.0

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 339) 62134 ELKR14S8 - 63043 ELK RIV4 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1781 : 62134 ELKR14S8 - 63043 ELK RIV4 CKT: 1   147.0   146.9    95.6    95.6   153.7   153.7     0.0
  665         : ** MULTIPLE CONTINGENCY **               111.9   111.9    95.6    95.6   117.0   117.1    -0.1
              : 63043 ELK RIV4 - 60152 MNTCELO4 CKT: 1
              : 63043 ELK RIV4 - 62134 ELKR14S8 CKT: 1
  680         : ** MULTIPLE CONTINGENCY **                92.9    92.3    95.6    95.6    97.2    96.5     0.7
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
  SINGLE 1823 : 62273 MILACAD8 - 62301 MILACA 8 CKT: 1    92.5    92.5    95.6    95.6    96.7    96.7     0.0
  SINGLE 1795 : 62147 BNKRLK 8 - 63046 BUNKER 4 CKT: 1    92.2    92.2    95.6    95.6    96.4    96.4     0.0
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1    91.8    91.8    95.6    95.6    96.0    96.0     0.0
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1    91.7    91.7    95.6    95.6    95.9    95.9     0.0
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1    90.4    90.4    95.6    95.6    94.6    94.6     0.0
  009   2     : ** MULTIPLE CONTINGENCY **               89.8    89.8    95.6    95.6    93.9    93.9     0.0
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
              : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1
              : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
              : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
              : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
              : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
  SINGLE 1785 : 62138 BRGGLKS8 - 62139 CABLETP8 CKT: 1    87.6    87.0    95.6    95.6    91.6    91.0     0.6
  SHC-CNC/ECK3: ** MULTIPLE CONTINGENCY **                86.9    86.9    95.6    95.6    90.9    90.9     0.0
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1
  SINGLE 1755 : 62116 RAMSEY 8 - 62147 BNKRLK 8 CKT: 1    86.6    86.6    95.6    95.6    90.6    90.6     0.0
  CNC-SHC/BUL3: ** MULTIPLE CONTINGENCY **                86.5    86.5    95.6    95.6    90.4    90.5    -0.1
              : 60202 COON CK3 - 60160 SHERCO 3 CKT: 1
              : 60202 COON CK3 - 63031 BUNKER 3 CKT: 1
  SINGLE 1773 : 62128 BLAINE 8 - 63040 BLAINE 4 CKT: 1    86.4    86.4    95.6    95.6    90.4    90.3     0.1

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 340) 62149 N ER TP8 - 62968 ELKRNTH8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1823 : 62273 MILACAD8 - 62301 MILACA 8 CKT: 1    80.8    80.8    53.0    53.0   164.3   164.3     0.0
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1    65.3    65.2    53.0    53.0   129.0   128.9     0.1
  SINGLE 1819 : 62271 LONGSDG8 - 62273 MILACAD8 CKT: 1    55.6    55.6    53.0    53.0   109.0   109.0     0.0
  SINGLE 1692 : 61922 PRINCTAP - 62292 PRINCTN8 CKT: 1    48.0    48.0    53.0    53.0    93.3    93.3     0.0
  SINGLE 1820 : 62271 LONGSDG8 - 62292 PRINCTN8 CKT: 1    48.0    48.0    53.0    53.0    93.2    93.3    -0.1

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 341) 62272 GILMAN 8 - 62290 MAYHWSW8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1    29.6    29.4    19.3    19.3   160.2   159.6     0.6
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1    29.5    29.5    19.3    19.3   160.0   159.9     0.1
  SINGLE 1851 : 62297 BENTON 8 - 62300 MINDEN 8 CKT: 1    22.9    22.9    19.3    19.3   148.5   148.6    -0.1
  680         : ** MULTIPLE CONTINGENCY **                20.0    20.0    19.3    19.3   121.6   122.0    -0.4
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1    19.8    19.8    19.3    19.3   120.6   120.6     0.0
  SINGLE 1852 : 62298 MAYHWTP8 - 62300 MINDEN 8 CKT: 1    18.0    18.0    19.3    19.3   110.2   110.4    -0.2
```

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 342) 62274 RUSHCYD8 - 62299 ADRIANR8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1849 : 62294 RUSH TP8 - 63022 CAMBRDG8 CKT: 1    53.0    53.0    53.0    53.0    98.0    97.9     0.1
  SINGLE 1846 : 62293 RUSH CY8 - 62294 RUSH TP8 CKT: 1    53.0    52.9    53.0    53.0    97.9    97.8     0.1
  SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1    47.3    47.3    53.0    53.0    90.3    90.4    -0.1
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1    47.3    47.3    53.0    53.0    90.3    90.3     0.0

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 343) 62293 RUSH CY8 - 62299 ADRIANR8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1849 : 62294 RUSH TP8 - 63022 CAMBRDG8 CKT: 1    56.4    56.4    53.0    53.0   104.0   103.9     0.1
  SINGLE 1846 : 62293 RUSH CY8 - 62294 RUSH TP8 CKT: 1    56.4    56.4    53.0    53.0   103.9   103.8     0.1
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1    50.7    50.7    53.0    53.0    96.6    96.5     0.1
  SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1    50.7    50.7    53.0    53.0    96.5    96.6    -0.1
  SINGLE 1789 : 62141 ISANTTP8 - 62143 ATHNSSW8 CKT: 1    47.1    47.1    53.0    53.0    93.4    93.4     0.0
  SINGLE 1836 : 62280 OGILVIE8 - 62303 MORA   8 CKT: 1    49.2    49.2    53.0    53.0    92.1    92.2    -0.1

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 344) 60740 LTCHMUT8 - 61912 LITCHFLD CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1685 : 61912 LITCHFLD - 62438 LITCHTP8 CKT: 1    19.3    19.3    20.0    20.0   100.6   100.6     0.0

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 345) 62427 WILLMAR8 - 62429 PNNCKTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2053 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1    39.6    39.5    24.3    24.3   170.2   169.7     0.5
  500         : ** MULTIPLE CONTINGENCY **                29.2    29.1    24.3    24.3   125.4   125.1     0.3
              : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
              : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1
  SINGLE 1895 : 62427 WILLMAR8 - 63050 WILLMAR4 CKT: 1    26.5    26.5    24.3    24.3   113.3   113.1     0.2
  690         : ** MULTIPLE CONTINGENCY **                24.5    24.5    24.3    24.3   102.9   102.6     0.3
              : 62425 WILLMAR7 - 62005 KERKHOT7 CKT: C
              : 60357 MAYNARD7 - 62005 KERKHOT7 CKT: 1
              : 62005 KERKHOT7 - 62006 KERKHO 7 CKT: 1
              : 62006 KERKHO 7 - 62001 BENSON 7 CKT: 1
  690    P1   : ** MULTIPLE CONTINGENCY **                24.5    24.5    24.3    24.3   102.9   102.6     0.3
              : 62425 WILLMAR7 - 62005 KERKHOT7 CKT: C
              : 60357 MAYNARD7 - 62005 KERKHOT7 CKT: 1
              : 62005 KERKHOT7 - 62006 KERKHO 7 CKT: 1
              : 62006 KERKHO 7 - 62001 BENSON 7 CKT: 1
  640         : ** MULTIPLE CONTINGENCY **                24.5    24.4    24.3    24.3   102.6   102.4     0.2
              : 62425 WILLMAR7 - 62427 WILLMAR8 CKT: 1
              : 62425 WILLMAR7 - 62005 KERKHOT7 CKT: C
  SINGLE 1889 : 62425 WILLMAR7 - 62427 WILLMAR8 CKT: 1    24.5    24.4    24.3    24.3   102.6   102.4     0.2
  SINGLE 1714 : 62005 KERKHOT7 - 62425 WILLMAR7 CKT: C    24.5    24.4    24.3    24.3   102.6   102.4     0.2

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 346) 66298 GRANITF8 - 66551 GRANITF7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2053 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1    57.6    57.4    42.0    42.0   137.0   136.8     0.2
  500         : ** MULTIPLE CONTINGENCY **                46.8    46.8    42.0    42.0   111.5   111.4     0.1
              : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
              : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1
  SINGLE 1895 : 62427 WILLMAR8 - 63050 WILLMAR4 CKT: 1    43.9    43.9    42.0    42.0   104.6   104.5     0.1
  690         : ** MULTIPLE CONTINGENCY **                41.0    41.0    42.0    42.0    97.7    97.6     0.1
              : 62425 WILLMAR7 - 62005 KERKHOT7 CKT: C
              : 60357 MAYNARD7 - 62005 KERKHOT7 CKT: 1
              : 62005 KERKHOT7 - 62006 KERKHO 7 CKT: 1
              : 62006 KERKHO 7 - 62001 BENSON 7 CKT: 1
  690    P1   : ** MULTIPLE CONTINGENCY **                41.0    41.0    42.0    42.0    97.7    97.6     0.1
              : 62425 WILLMAR7 - 62005 KERKHOT7 CKT: C
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              : 60357 MAYNARD7 - 62005 KERKHOT7 CKT: 1
              : 62005 KERKHOT7 - 62006 KERKHO 7 CKT: 1
              : 62006 KERKHO 7 - 62001 BENSON 7 CKT: 1
  640         : ** MULTIPLE CONTINGENCY **                41.0    40.9    42.0    42.0    97.6    97.5     0.1
              : 62425 WILLMAR7 - 62427 WILLMAR8 CKT: 1
              : 62425 WILLMAR7 - 62005 KERKHOT7 CKT: C
  SINGLE 1889 : 62425 WILLMAR7 - 62427 WILLMAR8 CKT: 1    41.0    41.0    42.0    42.0    97.6    97.5     0.1
  SINGLE 1714 : 62005 KERKHOT7 - 62425 WILLMAR7 CKT: C    41.0    40.9    42.0    42.0    97.6    97.5     0.1

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 347) 62935 MAPLELK8 - 63024 MAPLE 1G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1    58.7    58.7    24.3    24.3   286.9   286.9     0.0
  SINGLE 2023 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1    39.2    39.1    24.3    24.3   177.7   177.3     0.4
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1    33.7    33.7    24.3    24.3   152.7   152.5     0.2
  SINGLE 1787 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1    32.1    32.0    24.3    24.3   144.5   144.3     0.2
  SINGLE 1785 : 62138 BRGGLKS8 - 62139 CABLETP8 CKT: 1    28.7    28.7    24.3    24.3   127.8   128.3    -0.5
  SINGLE 1797 : 62150 E BL TP8 - 62965 ELKRWS18 CKT: 1    28.4    28.4    24.3    24.3   126.2   126.0     0.2
  SINGLE 1734 : 62100 BIG LAK8 - 62150 E BL TP8 CKT: 1    28.5    28.4    24.3    24.3   126.2   126.1     0.1
  SINGLE 1765 : 62122 WESTEND8 - 62138 BRGGLKS8 CKT: 1    26.4    26.3    24.3    24.3   117.1   116.9     0.2
  SINGLE 1733 : 62100 BIG LAK8 - 62142 REMMLTP8 CKT: 1    21.4    21.3    24.3    24.3    93.7    93.5     0.2
  SINGLE 1769 : 62125 BECKER 8 - 62939 SILVERC8 CKT: 1    20.7    20.7    24.3    24.3    91.5    91.5     0.0

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 348) 62944 GOOSETP8 - 63024 MAPLE 1G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2023 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1    39.0    38.9    24.3    24.3   177.8   177.3     0.5
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1    33.5    33.5    24.3    24.3   152.7   152.5     0.2
  680         : ** MULTIPLE CONTINGENCY **                32.9    32.9    24.3    24.3   149.5   150.1    -0.6
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
  SINGLE 1787 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1    32.0    31.9    24.3    24.3   144.5   144.3     0.2
  SINGLE 1785 : 62138 BRGGLKS8 - 62139 CABLETP8 CKT: 1    28.6    28.6    24.3    24.3   127.8   128.3    -0.5
  SINGLE 1797 : 62150 E BL TP8 - 62965 ELKRWS18 CKT: 1    28.4    28.3    24.3    24.3   126.2   126.1     0.1
  SINGLE 1734 : 62100 BIG LAK8 - 62150 E BL TP8 CKT: 1    28.4    28.3    24.3    24.3   126.2   126.1     0.1
  SINGLE 1765 : 62122 WESTEND8 - 62138 BRGGLKS8 CKT: 1    26.3    26.2    24.3    24.3   117.1   116.9     0.2
  SINGLE 1733 : 62100 BIG LAK8 - 62142 REMMLTP8 CKT: 1    21.3    21.3    24.3    24.3    93.7    93.5     0.2
  SINGLE 1769 : 62125 BECKER 8 - 62939 SILVERC8 CKT: 1    20.7    20.7    24.3    24.3    91.5    91.6    -0.1

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 349) 62279 BRAHAM 8 - 62291 GRASTON8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1849 : 62294 RUSH TP8 - 63022 CAMBRDG8 CKT: 1    27.5    27.5    19.3    19.3   156.7   156.7     0.0
  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1    18.7    18.7    19.3    19.3   118.7   118.7     0.0
  SINGLE 1741 : 62104 COOPERC8 - 62144 SDRVLSW8 CKT: 1    19.5    19.5    19.3    19.3   111.7   111.7     0.0
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1    15.7    15.7    19.3    19.3    97.3    97.1     0.2
  SINGLE 1740 : 62104 COOPERC8 - 62143 ATHNSSW8 CKT: 1    16.7    16.7    19.3    19.3    93.2    93.5    -0.3

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 350) 62116 RAMSEY 8 - 62147 BNKRLK 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1753 : 62114 RDFTAP 8 - 63020 ELK RIV8 CKT: 1    71.4    71.4    67.9    67.9   108.0   108.0     0.0
  SINGLE 1742 : 62105 DAYTON 8 - 62114 RDFTAP 8 CKT: 1    68.9    68.9    67.9    67.9   104.0   104.0     0.0

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 351) 62141 ISANTTP8 - 62143 ATHNSSW8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1    78.3    78.3    53.0    53.0   179.6   179.5     0.1
  SINGLE 1849 : 62294 RUSH TP8 - 63022 CAMBRDG8 CKT: 1    52.1    51.9    53.0    53.0   109.3   108.9     0.4
  SINGLE 1846 : 62293 RUSH CY8 - 62294 RUSH TP8 CKT: 1    52.1    51.9    53.0    53.0   109.2   108.9     0.3
  SINGLE 1746 : 62108 HUGO   8 - 62128 BLAINE 8 CKT: 1    50.4    50.2    53.0    53.0   101.6   101.1     0.5
  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1    46.2    46.2    53.0    53.0    96.1    96.1     0.0
  SINGLE 1744 : 62106 FOREST 8 - 62108 HUGO   8 CKT: 1    46.3    46.2    53.0    53.0    93.0    92.9     0.1
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  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1    44.8    44.7    53.0    53.0    92.6    92.3     0.3

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 352) 62278 HARRIS 8 - 62293 RUSH CY8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1746 : 62108 HUGO   8 - 62128 BLAINE 8 CKT: 1    65.4    65.2    53.0    53.0   138.3   137.5     0.8
  SINGLE 1744 : 62106 FOREST 8 - 62108 HUGO   8 CKT: 1    50.4    50.4    53.0    53.0   102.4   102.3     0.1

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 353) 62104 COOPERC8 - 62144 SDRVLSW8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1    68.4    68.4    53.0    53.0   146.5   146.4     0.1
  SINGLE 1770 : 62126 PIPELIN8 - 62134 ELKR14S8 CKT: 1    65.8    65.8    53.0    53.0   136.0   135.8     0.2
  SINGLE 1771 : 62126 PIPELIN8 - 62135 STFRNCS8 CKT: 1    62.9    62.8    53.0    53.0   128.7   128.5     0.2
  SINGLE 1849 : 62294 RUSH TP8 - 63022 CAMBRDG8 CKT: 1    50.0    49.9    53.0    53.0   101.5   101.3     0.2
  SINGLE 1846 : 62293 RUSH CY8 - 62294 RUSH TP8 CKT: 1    50.0    49.9    53.0    53.0   101.4   101.2     0.2
  SINGLE 1746 : 62108 HUGO   8 - 62128 BLAINE 8 CKT: 1    48.3    48.1    53.0    53.0    96.2    95.9     0.3
  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1    46.1    46.1    53.0    53.0    93.1    93.0     0.1
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1    45.1    45.0    53.0    53.0    90.7    90.5     0.2
  SINGLE 1783 : 62135 STFRNCS8 - 62143 ATHNSSW8 CKT: 1    45.8    45.8    53.0    53.0    90.5    90.5     0.0

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 354) 62140 MARTNTP8 - 62282 NBRNCH 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1746 : 62108 HUGO   8 - 62128 BLAINE 8 CKT: 1    39.1    39.0    53.0    53.0    95.8    95.0     0.8

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 355) 62278 HARRIS 8 - 62282 NBRNCH 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1746 : 62108 HUGO   8 - 62128 BLAINE 8 CKT: 1    56.1    56.0    53.0    53.0   125.9   125.1     0.8

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 356) 62144 SDRVLSW8 - 62148 BNKLKTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1748 : 62110 JOHNSVL8 - 62132 PRKWOOD8 CKT: 1    58.6    58.6    53.0    53.0   114.4   114.3     0.1
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1    54.8    54.8    53.0    53.0   106.7   106.7     0.0
  SINGLE 1773 : 62128 BLAINE 8 - 63040 BLAINE 4 CKT: 1    53.8    53.7    53.0    53.0   103.0   103.0     0.0
  SINGLE 1770 : 62126 PIPELIN8 - 62134 ELKR14S8 CKT: 1    51.5    51.5    53.0    53.0    99.3    99.2     0.1
  SINGLE 1771 : 62126 PIPELIN8 - 62135 STFRNCS8 CKT: 1    49.5    49.5    53.0    53.0    95.2    95.1     0.1

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 357) 62105 DAYTON 8 - 62114 RDFTAP 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1755 : 62116 RAMSEY 8 - 62147 BNKRLK 8 CKT: 1    69.2    69.2    67.9    67.9   104.2   104.1     0.1

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 358) 62114 RDFTAP 8 - 63020 ELK RIV8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1755 : 62116 RAMSEY 8 - 62147 BNKRLK 8 CKT: 1    73.4    73.4    67.9    67.9   107.7   107.7     0.0
  SINGLE 1795 : 62147 BNKRLK 8 - 63046 BUNKER 4 CKT: 1    62.9    62.9    67.9    67.9    91.9    91.9     0.0

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 359) 62128 BLAINE 8 - 62130 LXNGTSW8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1759 : 62118 SPRLKPK8 - 62132 PRKWOOD8 CKT: 1    66.6    66.6    67.9    67.9    98.1    98.1     0.0

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 360) 62100 BIG LAK8 - 62150 E BL TP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1    32.9    32.9    53.0    53.0   119.6   119.3     0.3
  680         : ** MULTIPLE CONTINGENCY **                58.4    58.2    53.0    53.0   115.9   115.9     0.0
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
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 SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1    57.9    57.9    53.0    53.0   115.2   115.3    -0.1
 SINGLE 1785 : 62138 BRGGLKS8 - 62139 CABLETP8 CKT: 1    50.6    50.4    53.0    53.0    99.4    99.5    -0.1
 SINGLE 1765 : 62122 WESTEND8 - 62138 BRGGLKS8 CKT: 1    47.3    47.3    53.0    53.0    93.0    93.1    -0.1

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 361) 62150 E BL TP8 - 62965 ELKRWS18 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1    31.7    31.7    53.0    53.0   119.5   119.4     0.1
 680         : ** MULTIPLE CONTINGENCY **                59.1    58.9    53.0    53.0   115.9   115.9     0.0
             : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
             : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
 SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1    58.6    58.6    53.0    53.0   115.2   115.2     0.0
 SINGLE 1785 : 62138 BRGGLKS8 - 62139 CABLETP8 CKT: 1    51.1    50.9    53.0    53.0    99.4    99.5    -0.1

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 362) 62271 LONGSDG8 - 62273 MILACAD8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1779 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1    56.9    56.9    68.8    68.8    95.4    95.5    -0.1
 SINGLE 1796 : 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1    56.9    56.9    68.8    68.8    95.4    95.5    -0.1

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 363) 62273 MILACAD8 - 62301 MILACA 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1767 : 62124 ZIMERMN8 - 62149 N ER TP8 CKT: 1    81.1    81.1    68.8    68.8   125.1   125.1     0.0
 SINGLE 1779 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1    81.0    81.0    68.8    68.8   124.9   125.0    -0.1

==================================================================================================================
 364) 62104 COOPERC8 - 62143 ATHNSSW8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1    53.7    53.7    53.0    53.0   118.2   118.1     0.1
 SINGLE 1770 : 62126 PIPELIN8 - 62134 ELKR14S8 CKT: 1    51.7    51.7    53.0    53.0   108.7   108.6     0.1
 SINGLE 1771 : 62126 PIPELIN8 - 62135 STFRNCS8 CKT: 1    48.9    48.9    53.0    53.0   101.7   101.6     0.1

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 365) 62118 SPRLKPK8 - 62132 PRKWOOD8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1773 : 62128 BLAINE 8 - 63040 BLAINE 4 CKT: 1    82.7    82.7    53.0    53.0   155.7   155.6     0.1
 SINGLE 1772 : 62128 BLAINE 8 - 62130 LXNGTSW8 CKT: 1    66.7    66.7    53.0    53.0   125.2   125.2     0.0
 SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1    49.0    49.0    53.0    53.0    91.3    91.2     0.1

==================================================================================================================
 366) 62118 SPRLKPK8 - 62131 HWY65SW8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1773 : 62128 BLAINE 8 - 63040 BLAINE 4 CKT: 1    53.3    53.2    53.0    53.0   101.4   101.3     0.1

==================================================================================================================
 367) 62131 HWY65SW8 - 62133 LXNGTN 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1773 : 62128 BLAINE 8 - 63040 BLAINE 4 CKT: 1    52.3    52.2    53.0    53.0   101.4   101.3     0.1

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 368) 60703 WATKINS8 - 62620 WATKINS8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1    33.8    33.8    36.0    36.0    97.8    97.8     0.0

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 369) 60717 WAKEFLD8 - 62846 FRHV TP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1    43.7    43.7    48.0    48.0    91.6    91.5     0.1

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 370) 62100 BIG LAK8 - 62142 REMMLTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
```

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  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1    45.3    45.3    53.0    53.0   161.3   160.9     0.4
  680         : ** MULTIPLE CONTINGENCY **               44.9    44.7    53.0    53.0    90.7    90.6     0.1
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1

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 371) 62119 THOMPLK8 - 62137 BCKRNSP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1    76.3    76.2    53.0    53.0   225.4   224.8     0.6
  SINGLE 2023 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1    56.1    55.9    53.0    53.0   127.2   126.6     0.6

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 372) 62119 THOMPLK8 - 62142 REMMLTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1    56.2    56.1    53.0    53.0   191.1   190.5     0.6
  SINGLE 2023 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1    41.9    41.8    53.0    53.0    99.5    98.9     0.6

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 373) 62122 WESTEND8 - 62138 BRGGLKS8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1    73.4    73.4    88.6    88.6   105.0   104.9     0.1

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 374) 62125 BECKER 8 - 62137 BCKRNSP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1    83.4    83.4    53.0    53.0   224.6   224.2     0.4
  SINGLE 2023 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1    57.9    57.7    53.0    53.0   126.9   126.4     0.5

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 375) 62138 BRGGLKS8 - 62139 CABLETP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1    80.9    80.9    88.6    88.6   112.0   112.0     0.0

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 376) 62938 OTSEGO 8 - 63020 ELK RIV8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1    55.4    55.4    53.0    53.0   104.8   104.9    -0.1

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 377) 62939 SILVERC8 - 62944 GOOSETP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1    46.5    46.5    53.0    53.0   110.2   110.2     0.0

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 378) 62134 ELKR14S8 - 63043 ELK RIV4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  660         : ** MULTIPLE CONTINGENCY **              187.9   187.0   187.0   187.0   100.5   100.0     0.5
              : 63043 ELK RIV4 - 63046 BUNKER 4 CKT: 1
              : 63043 ELK RIV4 - 62134 ELKR14S8 CKT: 2
  SINGLE 1782 : 62134 ELKR14S8 - 63043 ELK RIV4 CKT: 2   183.6   183.2   187.0   187.0    98.2    97.9     0.3

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 379) 62134 ELKR14S8 - 62967 ELKRWS28 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  680         : ** MULTIPLE CONTINGENCY **               98.7    98.6   101.9   101.9    98.5    98.6    -0.1
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1    98.2    98.2   101.9   101.9    98.2    98.2     0.0
  SINGLE 1783 : 62138 BRGGLKS8 - 62139 CABLETP8 CKT: 1   .....    90.3   .....   101.9   .....    90.1  *ELIM*

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 380) 62279 BRAHAM 8 - 63022 CAMBRDG8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
```

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  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1    28.5    28.5    19.3    19.3   176.8   176.9    -0.1
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1    25.4    25.4    19.3    19.3   154.4   154.1     0.3
  SINGLE 1849 : 62294 RUSH TP8 - 63022 CAMBRDG8 CKT: 1    17.6    17.6    19.3    19.3   103.8   103.9    -0.1
  SINGLE 1846 : 62293 RUSH CY8 - 62294 RUSH TP8 CKT: 1    17.5    17.5    19.3    19.3   103.4   103.5    -0.1

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 381) 62280 OGILVIE8 - 62301 MILACA 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1    45.7    45.7    41.5    41.5   126.4   126.4     0.0
  SINGLE 1966 : 62642 ONAMIA 8 - 62652 RUMRVTP8 CKT: 1    50.9    50.8    41.5    41.5   125.9   125.8     0.1
  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1    39.7    39.7    41.5    41.5   107.0   107.0     0.0
  SINGLE 1854 : 62302 ISLE   8 - 62642 ONAMIA 8 CKT: 1    42.0    42.0    41.5    41.5   103.1   103.0     0.1
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1    41.2    41.1    41.5    41.5   102.6   102.5     0.1
  SINGLE 1789 : 62141 ISANTTP8 - 62143 ATHNSSW8 CKT: 1    40.3    40.3    41.5    41.5    99.5    99.4     0.1
  SINGLE 1853 : 62301 MILACA 8 - 62652 RUMRVTP8 CKT: 1    39.1    39.1    41.5    41.5    95.1    95.2    -0.1
  SINGLE 1826 : 62275 PINECTY8 - 62285 RUSH SW8 CKT: 1    36.5    36.5    41.5    41.5    90.1    90.1     0.0
  SINGLE 1824 : 62274 RUSHCYD8 - 62285 RUSH SW8 CKT: 1    36.5    36.5    41.5    41.5    90.1    90.1     0.0

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 382) 62293 RUSH CY8 - 62294 RUSH TP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1789 : 62141 ISANTTP8 - 62143 ATHNSSW8 CKT: 1    58.2    58.2    53.0    53.0   117.1   117.1     0.0
  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1    58.8    58.8    53.0    53.0   111.7   111.7     0.0
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1    56.3    56.3    53.0    53.0   106.6   106.6     0.0

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 383) 62294 RUSH TP8 - 63022 CAMBRDG8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1    50.8    50.8    53.0    53.0   106.9   106.9     0.0

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 384) 62121 VILGTEN8 - 62132 PRKWOOD8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1795 : 62147 BNKRLK 8 - 63046 BUNKER 4 CKT: 1    86.9    86.9    88.6    88.6    96.9    96.9     0.0

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 385) 62280 OGILVIE8 - 62302 ISLE   8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1966 : 62642 ONAMIA 8 - 62652 RUMRVTP8 CKT: 1    24.2    24.2    13.7    13.7   255.2   255.4    -0.2
  SINGLE 1854 : 62302 ISLE   8 - 62642 ONAMIA 8 CKT: 1    18.7    18.7    13.7    13.7   145.6   145.7    -0.1
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1    14.9    14.9    13.7    13.7   138.3   138.1     0.2
  SINGLE 1798 : 62180 RIVTON 8 - 62190 OKLWNTP8 CKT: 1    12.0    12.0    13.7    13.7   103.7   103.8    -0.1

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 386) 62301 MILACA 8 - 62652 RUMRVTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1    41.0    41.0    41.5    41.5   126.2   126.1     0.1
  SINGLE 1798 : 62180 RIVTON 8 - 62190 OKLWNTP8 CKT: 1    36.1    36.1    41.5    41.5   102.7   102.7     0.0

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 387) 61739 BLCKBRY7 - 62488 BLCKBRY8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1799 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1    31.6    31.6    29.9    29.9   105.6   105.7    -0.1

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 388) 61780 DEER RV7 - 62450 DEER RV7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1799 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1    57.5    57.5    49.0    49.0   120.3   120.2     0.1
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1    50.6    50.5    49.0    49.0   104.7   104.5     0.2

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 389) 62450 DEER RV7 - 62487 DEER RV8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
```

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  SINGLE 1799 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1    57.0    57.0    56.0    56.0   101.8   101.8     0.0
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1    50.7    50.5    56.0    56.0    90.5    90.1     0.4

================================================================================================================
 390) 62479 BALLCLB8 - 62483 BENA TP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
----------------------------------------------------------------------------------------------------------------
  SINGLE 1799 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1    48.2    48.2    52.0    52.0   117.5   117.6    -0.1
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1    42.3    42.2    52.0    52.0    94.7    94.6     0.1

================================================================================================================
 391) 62479 BALLCLB8 - 62487 DEER RV8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
----------------------------------------------------------------------------------------------------------------
  SINGLE 1799 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1    54.5    54.5    52.0    52.0   127.9   127.9     0.0
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1    47.8    47.8    52.0    52.0   104.5   104.4     0.1

================================================================================================================
 392) 62482 SALEMSW8 - 62483 BENA TP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
----------------------------------------------------------------------------------------------------------------
  SINGLE 1799 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1    40.4    40.4    53.0    53.0   110.4   110.4     0.0

================================================================================================================
 393) 62099 BALDWIN8 - 62124 ZIMERMN8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
----------------------------------------------------------------------------------------------------------------
  SINGLE 1823 : 62273 MILACAD8 - 62301 MILACA 8 CKT: 1    49.5    49.5    53.0    53.0   111.0   111.0     0.0

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 394) 62275 PINECTY8 - 62291 GRASTON8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
----------------------------------------------------------------------------------------------------------------
  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1    38.0    38.0    41.5    41.5   124.1   124.1     0.0
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1    34.3    34.3    41.5    41.5   107.3   107.2     0.1

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 395) 62106 FOREST 8 - 62108 HUGO   8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
----------------------------------------------------------------------------------------------------------------
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1    64.0    64.0    53.0    53.0   139.2   139.2     0.0
  SINGLE 1831 : 62278 HARRIS 8 - 62293 RUSH CY8 CKT: 1    48.5    48.5    53.0    53.0    98.2    98.2     0.0

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 396) 62108 HUGO   8 - 62128 BLAINE 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
----------------------------------------------------------------------------------------------------------------
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1    78.8    78.8    68.8    68.8   122.7   122.7     0.0
  SINGLE 1831 : 62278 HARRIS 8 - 62293 RUSH CY8 CKT: 1    60.7    60.7    68.8    68.8    90.6    90.6     0.0

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 397) 62302 ISLE   8 - 62642 ONAMIA 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
----------------------------------------------------------------------------------------------------------------
  SINGLE 1834 : 62280 OGILVIE8 - 62301 MILACA 8 CKT: 1    27.1    27.1    24.3    24.3   118.7   118.8    -0.1
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1    20.0    20.0    24.3    24.3    90.3    90.2     0.1

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 398) 62106 FOREST 8 - 62140 MARTNTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
----------------------------------------------------------------------------------------------------------------
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1    45.3    45.3    53.0    53.0   101.6   101.6     0.0

================================================================================================================
 399) 62141 ISANTTP8 - 62296 INDSTTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
----------------------------------------------------------------------------------------------------------------
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1    56.9    56.9    53.0    53.0   138.3   138.3     0.0

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 400) 62280 OGILVIE8 - 62303 MORA   8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
----------------------------------------------------------------------------------------------------------------
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1    41.4    41.3    41.5    41.5   114.4   114.3     0.1
```

401) 62272 GILMAN 8 - 62301 MILACA 8 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 1851 : 62297 BENTON 8 - 62300 MINDEN 8 CKT: 1	29.2	29.2	36.6	36.6	96.3	96.3	0.0

402) 62993 WILSWTP8 - 62994 WILMRTP8 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 1893 : 62427 WILLMAR8 - 62992 WILMRSO8 CKT: 1	46.7	46.7	24.3	24.3	195.7	195.7	0.0
SINGLE 2035 : 62992 WILMRSO8 - 62995 WILMR E8 CKT: 1	31.5	31.5	24.3	24.3	130.7	130.6	0.1
SINGLE 2033 : 62990 WILMRMN8 - 62995 WILMR E8 CKT: 1	25.1	25.1	24.3	24.3	103.1	103.1	0.0

403) 62427 WILLMAR8 - 62992 WILMRSO8 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 1894 : 62427 WILLMAR8 - 62993 WILSWTP8 CKT: 1	58.2	58.2	57.4	57.4	99.8	99.7	0.1

404) 62445 4CORNRS7 - 62472 4CORNRS8 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 1910 : 62459 CRMWLLD8 - 62470 CROMWLL8 CKT: 1	22.4	22.4	23.9	23.9	93.9	93.9	0.0

405) 62464 LKHD GW8 - 62465 BRANDEN8 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 3382 : 62470 CROMWLL8 - 61655 CROMWLL7 CKT: 1	17.0	17.0	13.7	13.7	127.0	127.1	-0.1
SINGLE 1910 : 62459 CRMWLLD8 - 62470 CROMWLL8 CKT: 1	15.8	15.8	13.7	13.7	119.1	119.0	0.1

406) 62464 LKHD GW8 - 62471 GOWANSW8 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 3382 : 62470 CROMWLL8 - 61655 CROMWLL7 CKT: 1	16.7	16.7	13.7	13.7	126.3	126.4	-0.1
SINGLE 1910 : 62459 CRMWLLD8 - 62470 CROMWLL8 CKT: 1	15.5	15.5	13.7	13.7	118.4	118.4	0.0

407) 62465 BRANDEN8 - 62466 GRANDLK8 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 3382 : 62470 CROMWLL8 - 61655 CROMWLL7 CKT: 1	18.7	18.7	13.7	13.7	135.9	136.0	-0.1
SINGLE 1910 : 62459 CRMWLLD8 - 62470 CROMWLL8 CKT: 1	17.6	17.6	13.7	13.7	128.6	128.5	0.1
SINGLE 3377 : 62314 BEAR CK8 - 61580 BEARCK 4 CKT: 1	12.5	12.5	13.7	13.7	90.2	90.4	-0.2

408) 62306 HARRY M8 - 62307 DENHAM 8 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 3377 : 62314 BEAR CK8 - 61580 BEARCK 4 CKT: 1	15.1	15.1	13.7	13.7	124.3	123.9	0.4
SINGLE 1921 : 62468 KETTLER8 - 62470 CROMWLL8 CKT: 1	17.0	17.0	13.7	13.7	123.9	123.9	0.0
SINGLE 3382 : 62470 CROMWLL8 - 61655 CROMWLL7 CKT: 1	16.4	16.3	13.7	13.7	118.9	118.8	0.1

409) 62192 CRSSLKS8 - 62194 FFTYLKS8 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 1933 : 62479 BALLCLB8 - 62487 DEER RV8 CKT: 1	34.6	34.6	32.1	32.1	110.3	110.3	0.0

410) 62185 OX LAKE8 - 62194 FFTYLKS8 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 1933 : 62479 BALLCLB8 - 62487 DEER RV8 CKT: 1	26.9	26.9	32.1	32.1	90.9	90.8	0.1

411) 60652 CROWRV 8 - 62931 DELANO 8 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
655 : ** MULTIPLE CONTINGENCY **	44.8	44.7	41.5	41.5	108.7	108.6	0.1

```
             : 62924 MEDINA 7 - 60206 CROWRVR7 CKT: 1
             : 62924 MEDINA 7 - 62951 MEDINA 8 CKT: 1
  SINGLE 1996 : 62924 MEDINA 7 - 62951 MEDINA 8 CKT: 1    43.5    43.5    41.5    41.5   105.7   105.6     0.1
  SINGLE 1998 : 62925 DICKNSN7 - 62947 DICKIN 8 CKT: 1    38.8    38.8    41.5    41.5    93.3    93.2     0.1

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 412) 60148 MINVALY7 - 60357 MAYNARD7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2053 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1    78.6    78.4    78.0    78.0   106.2   105.9     0.3

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 413) 60357 MAYNARD7 - 62005 KERKHOT7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2053 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1    75.0    74.9    78.0    78.0   106.6   106.2     0.4

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 414) 62425 WILLMAR7 - 62427 WILLMAR8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2053 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1    96.4    96.3    84.0    84.0   114.8   114.6     0.2
  500         : ** MULTIPLE CONTINGENCY **                76.4    76.4    84.0    84.0    91.0    90.9     0.1
             : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
             : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1

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 415) 63187 WINGER Y - 63238 WINGER 7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2060 : 63186 WILTON Y - 63245 WILTON 7 CKT: 1   133.4   132.8   140.0   140.0    95.3    94.8     0.5
  SINGLE 2061 : 63186 WILTON Y - 63345 WILTON 4 CKT: 1   133.4   132.8   140.0   140.0    95.3    94.8     0.5
  SINGLE 2196 : 63345 WILTON 4 - 66758 WINGER 4 CKT: 1   132.1   132.0   140.0   140.0    94.4    94.3     0.1

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 416) 63187 WINGER Y - 66758 WINGER 4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2060 : 63186 WILTON Y - 63245 WILTON 7 CKT: 1   135.0   134.4   140.0   140.0    96.4    96.0     0.4
  SINGLE 2061 : 63186 WILTON Y - 63345 WILTON 4 CKT: 1   135.0   134.4   140.0   140.0    96.4    96.0     0.4
  SINGLE 2196 : 63345 WILTON 4 - 66758 WINGER 4 CKT: 1   133.4   133.2   140.0   140.0    95.3    95.2     0.1

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 417) 63238 WINGER 7 - 63239 BAGLEY 7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2196 : 63345 WILTON 4 - 66758 WINGER 4 CKT: 1    99.4    99.3    96.0    96.0   100.5   100.4     0.1
  SINGLE 2061 : 63186 WILTON Y - 63345 WILTON 4 CKT: 1    99.9    99.4    96.0    96.0   100.3   100.1     0.2
  SINGLE 2060 : 63186 WILTON Y - 63245 WILTON 7 CKT: 1    99.9    99.4    96.0    96.0   100.3   100.1     0.2

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 418) 63190 MAPLER2Y - 66754 MAPLE R4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2066 : 63189 MAPLER1Y - 66754 MAPLE R4 CKT: 1   348.5   348.2   336.0   336.0   103.7   103.6     0.1
  SINGLE 2067 : 63189 MAPLER1Y - 66792 MAPLE R3 CKT: 1   348.5   348.2   336.0   336.0   103.7   103.6     0.1
  MAPLER XFR1 : ** MULTIPLE CONTINGENCY **               348.5   348.2   336.0   336.0   103.7   103.6     0.1
             : 63189 MAPLER1Y - 63359 MAPLER19 CKT: 1
             : 63189 MAPLER1Y - 66754 MAPLE R4 CKT: 1
             : 63189 MAPLER1Y - 66792 MAPLE R3 CKT: 1

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 419) 63190 MAPLER2Y - 66792 MAPLE R3 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2066 : 63189 MAPLER1Y - 66754 MAPLE R4 CKT: 1   351.4   351.1   336.0   336.0   104.6   104.5     0.1
  SINGLE 2067 : 63189 MAPLER1Y - 66792 MAPLE R3 CKT: 1   351.4   351.1   336.0   336.0   104.6   104.5     0.1
  MAPLER XFR1 : ** MULTIPLE CONTINGENCY **               351.3   351.1   336.0   336.0   104.6   104.5     0.1
             : 63189 MAPLER1Y - 63359 MAPLER19 CKT: 1
             : 63189 MAPLER1Y - 66754 MAPLE R4 CKT: 1
             : 63189 MAPLER1Y - 66792 MAPLE R3 CKT: 1
```

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==================================================================================================================
 420) 63189 MAPLER1Y - 66754 MAPLE R4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2068 : 63190 MAPLER2Y - 66754 MAPLE R4 CKT: 1   348.5   348.2   336.0   336.0   103.7   103.6     0.1
  SINGLE 2069 : 63190 MAPLER2Y - 66792 MAPLE R3 CKT: 1   348.5   348.2   336.0   336.0   103.7   103.6     0.1
  MAPLER XFR2 : ** MULTIPLE CONTINGENCY **               348.5   348.2   336.0   336.0   103.7   103.6     0.1
              : 63190 MAPLER2Y - 63360 MAPLER29 CKT: 1
              : 63190 MAPLER2Y - 66754 MAPLE R4 CKT: 1
              : 63190 MAPLER2Y - 66792 MAPLE R3 CKT: 1

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 421) 63189 MAPLER1Y - 66792 MAPLE R3 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2068 : 63190 MAPLER2Y - 66754 MAPLE R4 CKT: 1   351.4   351.1   336.0   336.0   104.6   104.5     0.1
  SINGLE 2069 : 63190 MAPLER2Y - 66792 MAPLE R3 CKT: 1   351.4   351.1   336.0   336.0   104.6   104.5     0.1
  MAPLER XFR2 : ** MULTIPLE CONTINGENCY **               351.3   351.1   336.0   336.0   104.6   104.5     0.1
              : 63190 MAPLER2Y - 63360 MAPLER29 CKT: 1
              : 63190 MAPLER2Y - 66754 MAPLE R4 CKT: 1
              : 63190 MAPLER2Y - 66792 MAPLE R3 CKT: 1

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 422) 63219 GRANTCO7 - 63223 HOOT LK7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2103 : 63219 GRANTCO7 - 66555 MORRIS 7 CKT: 1    82.4    82.3    96.0    96.0    91.2    91.0     0.2

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 423) 63195 BIGSTONY - 63214 BIGSTON7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2189 : 63314 BIGSTON4 - 63325 BROWNSV4 CKT: 1   245.6   245.2   233.0   233.0   105.4   105.2     0.2
  SINGLE 2192 : 63327 HANKSON4 - 63329 WAHPETN4 CKT: 1   243.8   243.3   233.0   233.0   104.6   104.4     0.2
  SINGLE 2191 : 63325 BROWNSV4 - 63327 HANKSON4 CKT: 1   241.5   241.1   233.0   233.0   103.6   103.5     0.1
  SINGLE 2449 : 66503 BLAIR  4 - 66550 GRANITF4 CKT: 1   236.5   236.3   233.0   233.0   101.5   101.4     0.1
  SINGLE 2190 : 63314 BIGSTON4 - 66503 BLAIR  4 CKT: 1   218.4   218.4   233.0   233.0    93.7    93.7     0.0

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 424) 63195 BIGSTONY - 63314 BIGSTON4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2189 : 63314 BIGSTON4 - 63325 BROWNSV4 CKT: 1   245.6   245.2   233.0   233.0   105.4   105.2     0.2
  SINGLE 2192 : 63327 HANKSON4 - 63329 WAHPETN4 CKT: 1   243.7   243.3   233.0   233.0   104.6   104.4     0.2
  SINGLE 2191 : 63325 BROWNSV4 - 63327 HANKSON4 CKT: 1   241.5   241.1   233.0   233.0   103.6   103.5     0.1
  SINGLE 2449 : 66503 BLAIR  4 - 66550 GRANITF4 CKT: 1   236.5   236.2   233.0   233.0   101.5   101.4     0.1
  SINGLE 2190 : 63314 BIGSTON4 - 66503 BLAIR  4 CKT: 1   218.4   218.4   233.0   233.0    93.7    93.7     0.0

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 425) 66896 MASTER 8 - 66897 GUNCLUB8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2206 : 66202 GRNDFKS8 - 66443 GRNDFKS7 CKT: 1    28.3    28.3    31.0    31.0    90.3    90.3     0.0

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 426) 66405 FTPECK 4 - 66406 FTPECK 7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2318 : 66403 DAWSONC4 - 66405 FTPECK 4 CKT: 1    83.8    83.8    67.0    67.0   125.0   125.0     0.0

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 427) 67307 BISM NW7 - 67343 HESKETT7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2679 : 67343 HESKETT7 - 67367 MANDANW7 CKT: 1   119.1   119.1    88.0    88.0   133.0   133.0     0.0
  SINGLE 2684 : 67365 MANDANS7 - 67367 MANDANW7 CKT: 1   119.1   119.1    88.0    88.0   133.0   133.0     0.0
  SINGLE 2351 : 66426 BISMARK4 - 66427 BISMARK7 CKT: 1   106.3   106.3    88.0    88.0   124.1   124.1     0.0
  SINGLE 2656 : 67306 BISM DT7 - 67365 MANDANS7 CKT: 1   106.1   106.1    88.0    88.0   118.6   118.6     0.0
  SINGLE 2358 : 66427 BISMARK7 - 67329 ESTBMRK7 CKT: 1    93.5    93.5    88.0    88.0   108.4   108.4     0.0
  SINGLE 2590 : 66791 CENTER 3 - 67316 COYOTE 3 CKT: 1    87.3    87.3    88.0    88.0    99.5    99.5     0.0
```

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  SINGLE 2201 : 63369 JAMESTN3 - 66791 CENTER 3 CKT: 1    85.7    85.7    88.0    88.0    97.0    97.0     0.0
  SINGLE 2197 : 63358 BUFFALO3 - 63369 JAMESTN3 CKT: 1    84.2    84.2    88.0    88.0    95.0    94.9     0.1
  SINGLE 2198 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1    84.0    84.0    88.0    88.0    94.6    94.5     0.1

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 428) 66479 MARTIN 7 - 67153 VETALTP7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2408 : 66475 BONESTL7 - 66510 FTRANDL7 CKT: 1    53.6    53.6    60.0    60.0    90.3    90.3     0.0

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 429) 66475 BONESTL7 - 66510 FTRANDL7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2416 : 66479 MARTIN 7 - 67153 VETALTP7 CKT: 1    57.8    57.7    60.0    60.0    93.6    93.4     0.2
  SINGLE 2421 : 66482 MISSION7 - 67153 VETALTP7 CKT: 1    56.2    56.1    60.0    60.0    90.9    90.7     0.2

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 430) 66292 WHITE  T - 66537 WHITE  3 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2451 : 66504 BROOKNG7 - 66538 WHITE  7 CKT: 1   196.0   196.0   200.0   200.0    98.0    98.0     0.0

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 431) 66292 WHITE  T - 66538 WHITE  7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2451 : 66504 BROOKNG7 - 66538 WHITE  7 CKT: 1   193.8   193.8   200.0   200.0    96.9    96.9     0.0

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 432) 66503 BLAIR  4 - 66550 GRANITF4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2503 : 66530 WATERTN4 - 66550 GRANITF4 CKT: 1   362.6   361.5   398.0   398.0    95.1    94.8     0.3

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 433) 66553 MOORHED4 - 66587 MOORHED7 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2510 : 66553 MOORHED4 - 66587 MOORHED7 CKT: 1    68.3    68.3    67.0    67.0   102.0   102.0     0.0

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 434) 66553 MOORHED4 - 66587 MOORHED7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2511 : 66553 MOORHED4 - 66587 MOORHED7 CKT: 2    68.3    68.3    67.0    67.0   101.9   101.9     0.0

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 435) 66594 J5ONAWA8 - 63886 SALIX 8  CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2522 : 66565 SIOUXCY4 - 66567 DENISON4 CKT: 1    39.6    39.1    41.0    41.0    94.2    93.1     1.1

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 436) 66418 DKSN-ND7 - 67320 DICKSWH7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2590 : 66791 CENTER 3 - 67316 COYOTE 3 CKT: 1    71.4    71.4    79.7    79.7    90.3    90.4    -0.1

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 437) 66442 GARRISN7 - 67308 BEULAH 7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2590 : 66791 CENTER 3 - 67316 COYOTE 3 CKT: 1   120.6   120.5   120.0   120.0    96.2    96.2     0.0

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 438) 66756 SQBUTTE4 - 66791 CENTER 3 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2590 : 66791 CENTER 3 - 67316 COYOTE 3 CKT: 1   343.5   343.2   336.0   336.0   102.2   102.1     0.1

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 439) 67308 BEULAH 7 - 67318 COYOTE 7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
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  SINGLE 2590 : 66791 CENTER 3 - 67316 COYOTE 3 CKT: 1   291.6   291.6   101.4   101.4   271.5   271.4     0.1

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 440) 67308 BEULAH 7 - 67343 HESKETT7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2590 : 66791 CENTER 3 - 67316 COYOTE 3 CKT: 1   102.6   102.6    88.0    88.0   111.7   111.7     0.0

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 441) 67316 COYOTE 3 - 67318 COYOTE 7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2590 : 66791 CENTER 3 - 67316 COYOTE 3 CKT: 1   387.9   387.8   168.0   168.0   230.9   230.9     0.0

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 442) 67318 COYOTE 7 - 67320 DICKSWH7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2590 : 66791 CENTER 3 - 67316 COYOTE 3 CKT: 1    87.6    87.6    79.7    79.7   103.7   103.8    -0.1

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 443) 67105 LELANDO3 - 67201 LELND1TY CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2607 : 67105 LELANDO3 - 67202 LELND2TY CKT: 1   330.6   329.3   250.0   250.0   132.2   131.7     0.5
  SINGLE 2611 : 67106 LELANDO4 - 67202 LELND2TY CKT: 1   330.6   329.3   250.0   250.0   132.2   131.7     0.5
  LELANDO T2  : ** MULTIPLE CONTINGENCY **               330.6   329.3   250.0   250.0   132.2   131.7     0.5
              : 67202 LELND2TY - 67105 LELANDO3 CKT: 1
              : 67202 LELND2TY - 67106 LELANDO4 CKT: 1

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 444) 67106 LELANDO4 - 67201 LELND1TY CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2607 : 67105 LELANDO3 - 67202 LELND2TY CKT: 1   330.6   329.3   250.0   250.0   132.2   131.7     0.5
  SINGLE 2611 : 67106 LELANDO4 - 67202 LELND2TY CKT: 1   330.6   329.3   250.0   250.0   132.2   131.7     0.5
  LELANDO T2  : ** MULTIPLE CONTINGENCY **               330.6   329.3   250.0   250.0   132.2   131.7     0.5
              : 67202 LELND2TY - 67105 LELANDO3 CKT: 1
              : 67202 LELND2TY - 67106 LELANDO4 CKT: 1

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 445) 67218 AVSDC7TY - 67219 AVSDC8TY CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2646 : 67218 AVSDC7TY - 67222 AVSD11TY CKT: 1    56.7    56.7    60.0    60.0    90.7    90.7     0.0

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 446) 66426 BISMARK4 - 66427 BISMARK7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 3627 : 67343 HESKETT7 - 67345 HESKET2G CKT: 1   112.6   112.6   100.0   100.0   112.6   112.6     0.0
  SINGLE 2657 : 67307 BISM NW7 - 67343 HESKETT7 CKT: 1    91.8    91.7   100.0   100.0    91.8    91.7     0.1

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 447) 67401 ABDNJCT7 - 67402 ABDNSBT7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2678 : 67342 HESKETT4 - 67394 WISHEK 4 CKT: 1    84.6    84.3    80.0    80.0   106.2   105.9     0.3
  SINGLE 2666 : 67326 ELLENDL4 - 67394 WISHEK 4 CKT: 1    81.8    81.6    80.0    80.0   103.0   102.7     0.3

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 448) 67306 BISM DT7 - 67329 ESTBMRK7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2684 : 67365 MANDANS7 - 67367 MANDANW7 CKT: 1    74.1    74.1    67.7    67.7   110.2   110.2     0.0
  SINGLE 2679 : 67343 HESKETT7 - 67367 MANDANW7 CKT: 1    74.0    74.0    67.7    67.7   110.1   110.1     0.0

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 449) 34020 HAZL S 5 - 34135 DUNDEE 5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2733 : 34036 ROCK CK3 - 36382 QUAD ;   CKT: 1   153.4   151.6   167.0   167.0    92.5    91.5     1.0
```

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==================================================================================================================
 450) 34043 SAVANNA5 - 34347 SAVNA N9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2737 : 34043 SAVANNA5 - 34346 SAVNA S9 CKT: 1    22.6    22.6    22.4    22.4   101.0   101.0     0.0

==================================================================================================================
 451) 34043 SAVANNA5 - 34346 SAVNA S9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2738 : 34043 SAVANNA5 - 34347 SAVNA N9 CKT: 1    22.6    22.6    22.4    22.4   101.0   101.0     0.0

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 452) 34058 PERRY  5 - 34166 PERRY  9 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2750 : 34058 PERRY  5 - 34166 PERRY  9 CKT: 1    45.5    45.5    46.0    46.0    98.8    98.8     0.0

==================================================================================================================
 453) 34058 PERRY  5 - 34166 PERRY  9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2751 : 34058 PERRY  5 - 34166 PERRY  9 CKT: 2    45.5    45.5    46.0    46.0    98.9    98.9     0.0

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 454) 34054 GR JCT 5 - 34529 GRJCT5Y  CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2757 : 34061 BNE JCT5 - 64205 FT.DODG5 CKT: 1    45.4   .....    50.0   .....    90.8   .....   *NEW*

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 455) 34059 BOONE  7 - 34073 GR JCT 7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 133  : 34059 BOONE  7 - 34076 BNE JCT7 CKT: 1    72.3    72.3    50.0    50.0   150.2   151.1    -0.9
  SINGLE 2757 : 34061 BNE JCT5 - 64205 FT.DODG5 CKT: 1    45.5    44.7    50.0    50.0    91.6    90.0     1.6

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 456) 34073 GR JCT 7 - 34529 GRJCT5Y  CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 133  : 34059 BOONE  7 - 34076 BNE JCT7 CKT: 1    74.3    74.3    50.0    50.0   148.6   148.7    -0.1
  SINGLE 2757 : 34061 BNE JCT5 - 64205 FT.DODG5 CKT: 1    45.5   .....    50.0   .....    91.0   .....   *NEW*

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 457) 34066 M-TOWN 7 - 34159 M-TOWN 9 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2763 : 34066 M-TOWN 7 - 34159 M-TOWN 9 CKT: 1   108.8   108.8    93.0    93.0   117.0   117.0     0.0

==================================================================================================================
 458) 34066 M-TOWN 7 - 34159 M-TOWN 9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2764 : 34066 M-TOWN 7 - 34159 M-TOWN 9 CKT: 2   108.8   108.8    93.0    93.0   117.0   117.0     0.0

==================================================================================================================
 459) 34077 IA FALS7 - 34168 IA FALS9 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2766 : 34077 IA FALS7 - 34168 IA FALS9 CKT: 1    28.9    28.9    20.0    20.0   144.7   144.7     0.0

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 460) 34077 IA FALS7 - 34168 IA FALS9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2767 : 34077 IA FALS7 - 34168 IA FALS9 CKT: 2    29.1    29.1    20.0    20.0   145.3   145.3     0.0

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 461) 34086 WILMSBG7 - 34153 WILMSBG9 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2773 : 34086 WILMSBG7 - 34153 WILMSBG9 CKT: 1    19.1    19.1    13.0    13.0   146.9   146.9     0.0

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 462) 34097 6 ST   7 - 34100 6 ST 26G CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 2781 : 34097 6 ST   7 - 34100 6 ST 26G CKT: 1    96.8    96.8    93.0    93.0   104.1   104.1     0.0

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 463) 34097 6 ST   7 - 34100 6 ST 26G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 2782 : 34097 6 ST   7 - 34100 6 ST 26G CKT: 2    96.9    96.9    93.0    93.0   104.2   104.2     0.0

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 464) 34103 MARION 7 - 34104 MARION 9 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 2786 : 34103 MARION 7 - 34104 MARION 9 CKT: 1    68.7    68.7    50.0    50.0   137.4   137.4     0.0

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 465) 34103 MARION 7 - 34104 MARION 9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 2787 : 34103 MARION 7 - 34104 MARION 9 CKT: 2    68.7    68.7    56.0    56.0   122.7   122.7     0.0

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 466) 34133 DUNDEE 7 - 34119 DUNDEE 9 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 2805 : 34133 DUNDEE 7 - 34119 DUNDEE 9 CKT: 1    18.3    18.3    13.0    13.0   140.7   140.7     0.0

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 467) 34133 DUNDEE 7 - 34119 DUNDEE 9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 2806 : 34133 DUNDEE 7 - 34119 DUNDEE 9 CKT: 2    18.3    18.3    13.0    13.0   140.9   140.9     0.0

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 468) 60108 WILMART3 - 60331 LKFLDXL3 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1  1123.2  1111.5  1165.0  1165.0    94.4    93.4     1.0
  SINGLE 2926 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1  1092.7  1081.1  1165.0  1165.0    91.7    90.7     1.0
  SINGLE 2925 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1  1092.4  1080.8  1165.0  1165.0    91.7    90.7     1.0
  SINGLE 2904 : 60108 WILMART3 -  8001 G261-ST  CKT: 1  1073.0   .....  1165.0   .....    90.3   .....   *NEW*

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 469) 62437 SVEATAP8 - 62438 LITCHTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  795          : ** MULTIPLE CONTINGENCY **               43.7    43.5    41.5    41.5   104.7   104.2     0.5
               : 66550 GRANITF4 - 60150 MNVLTAP4 CKT: 1
               : 60148 MINVALY7 - 60149 MINVALT4 CKT: C
               : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1
               : 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1
               : 63054 PANTHER4 - 60742 PANTHER8 CKT: 1
  SINGLE 2919 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1    43.6    43.4    41.5    41.5   104.2   103.7     0.5

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 470) 60279 BUFFRID7 - 60708 BUFFRIDG CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 2974 : 60279 BUFFRID7 - 60708 BUFFRIDG CKT: 1   210.8   210.8   120.0   120.0   175.7   175.7     0.0

=================================================================================================================
 471) 60279 BUFFRID7 - 60708 BUFFRIDG CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 2975 : 60279 BUFFRID7 - 60708 BUFFRIDG CKT: 2   210.8   210.8   120.0   120.0   175.7   175.7     0.0

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 472) 60803 MIESTAP8 - 62238 MIESVIL8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 3013 : 60342 WHAST  7 - 62258 WHASTNG8 CKT: 1    50.5    50.5    36.3    36.3   144.9   144.8     0.1
```

473) 60362 CHANRMB7 - 60715 CHANRMB9 CKT: 2	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 3020 : 60362 CHANRMB7 - 60715 CHANRMB9 CKT: 1	141.8	141.8	120.0	120.0	118.2	118.2	0.0
SINGLE 3022 : 60362 CHANRMB7 - 60715 CHANRMB9 CKT: 3	141.8	141.8	120.0	120.0	118.2	118.2	0.0

474) 60362 CHANRMB7 - 60715 CHANRMB9 CKT: 3	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 3020 : 60362 CHANRMB7 - 60715 CHANRMB9 CKT: 1	141.8	141.8	120.0	120.0	118.2	118.2	0.0
SINGLE 3021 : 60362 CHANRMB7 - 60715 CHANRMB9 CKT: 2	141.8	141.8	120.0	120.0	118.2	118.2	0.0

475) 60362 CHANRMB7 - 60715 CHANRMB9 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 3021 : 60362 CHANRMB7 - 60715 CHANRMB9 CKT: 2	141.8	141.8	120.0	120.0	118.2	118.2	0.0
SINGLE 3022 : 60362 CHANRMB7 - 60715 CHANRMB9 CKT: 3	141.8	141.8	120.0	120.0	118.2	118.2	0.0

476) 60650 WILMART8 - 60831 EASTWD28 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 3024 : 60650 WILMART8 - 62336 JHNSNTP8 CKT: 1	116.7	116.5	115.0	115.0	100.7	100.5	0.2

477) 60808 EAGLELK8 - 62351 JMSTWTP8 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 3024 : 60650 WILMART8 - 62336 JHNSNTP8 CKT: 1	81.4	81.3	53.7	53.7	157.5	157.3	0.2
SINGLE 3152 : 60826 TRAVRSE8 - 62323 PNLPNTP8 CKT: 1	67.8	67.7	53.7	53.7	125.3	125.1	0.2

478) 60827 LKEMILY8 - 61974 ST PETER CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 3152 : 60826 TRAVRSE8 - 62323 PNLPNTP8 CKT: 1	42.8	42.7	48.0	48.0	94.0	93.7	0.3

479) 60827 LKEMILY8 - 62681 CLVLAND8 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 3024 : 60650 WILMART8 - 62336 JHNSNTP8 CKT: 1	60.6	60.6	48.0	48.0	136.9	137.0	-0.1
SINGLE 3152 : 60826 TRAVRSE8 - 62323 PNLPNTP8 CKT: 1	47.9	47.8	48.0	48.0	103.7	103.5	0.2

480) 60718 BIRDISL8 - 60682 KNGMN R8 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 3036 : 60677 HENRYTR8 - 60733 HENRY R8 CKT: 1	34.0	34.0	37.0	37.0	93.7	93.7	0.0

481) 60765 MAPLELK8 - 62935 MAPLELK8 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 3055 : 60717 WAKEFLD8 - 62846 FRHV TP8 CKT: 1	31.9	31.9	24.0	24.0	142.9	142.9	0.0
SINGLE 3051 : 60705 LUXBGTP8 - 62846 FRHV TP8 CKT: 1	26.4	26.4	24.0	24.0	118.2	118.2	0.0
SINGLE 3049 : 60705 LUXBGTP8 - 62620 WATKINS8 CKT: 1	23.9	23.9	24.0	24.0	106.3	106.3	0.0

482) 60677 HENRYTR8 - 60733 HENRY R8 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 3056 : 60718 BIRDISL8 - 60682 KNGMN R8 CKT: 1	35.3	35.2	37.0	37.0	101.4	101.4	0.0

483) 60734 MONTRSE8 - 60891 DELANOT8 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 3076 : 60739 DASSEL 8 - 62617 BIGSWAN8 CKT: 1	36.3	36.3	36.0	36.0	107.0	107.0	0.0

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 484) 34251 MADLIAJ8 - 34267 HANSKAT8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 3198 : 60934 WATOWAN8 - 62805 STJAMES8 CKT: 1    28.6    28.3    27.0    27.0   108.2   106.8     1.4
  SINGLE 3133 : 60809 SJA SWS8 - 62805 STJAMES8 CKT: 1    27.2    26.8    27.0    27.0   102.2   100.8     1.4
  SINGLE 3132 : 60809 SJA SWS8 - 60709 STJMSMU8 CKT: 1    25.8    25.4    27.0    27.0    97.8    96.5     1.3

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 485) 60282 REDCDR 5 - 61070 REDCDR 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 3264 : 61028 ELMWOOD8 - 68884 RCK ELM8 CKT: 1    63.8    63.8    70.0    70.0    91.2    91.1     0.1

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 486) 34014 ADAMS  5 - 69547 ROCHSTR5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 3364 : 61948 BYRON  5 - 61906 MAPLE LF CKT: 1   210.2   210.2   201.0   201.0   103.5   103.4     0.1

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 487) 61656 MAHTOWA7 - 61807 MAH 46 9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 3377 : 62314 BEAR CK8 - 61580 BEARCK 4 CKT: 1    13.2    13.2    13.0    13.0   101.2   101.3    -0.1

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 488) 62468 KETTLER8 - 62470 CROMWLL8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 3377 : 62314 BEAR CK8 - 61580 BEARCK 4 CKT: 1    31.8    31.8    28.1    28.1   119.7   119.4     0.3

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 489) 60741 LKLILLN8 - 60766 COSMSTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 3395 : 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1    33.1    32.9    37.0    37.0    91.8    91.1     0.7

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 490) 60741 LKLILLN8 - 62590 MLVILTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 3395 : 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1    37.6    37.3    37.0    37.0    98.7    97.8     0.9

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 491) 60742 PANTHER8 - 62590 MLVILTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 3395 : 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1    37.7    37.4    37.0    37.0    98.9    98.1     0.8

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 492) 66509 FTRANDL4 - 66548 FTRDL56G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 3400 : 63041 COAL CR4 - 63000 COAL 41G CKT: 1    89.2    89.2    98.0    98.0    91.0    91.0     0.0
  SINGLE 3401 : 63041 COAL CR4 - 63001 COAL 42G CKT: 1    89.2    89.2    98.0    98.0    91.0    91.0     0.0
  SINGLE 3525 : 66509 FTRANDL4 - 66547 FTRDL34G CKT: 1    89.0    88.9    98.0    98.0    90.8    90.7     0.1
  SINGLE 3527 : 66509 FTRANDL4 - 66549 FTRDL78G CKT: 1    89.0    89.0    98.0    98.0    90.8    90.8     0.0
  SINGLE 3592 : 67101 ANTELOP3 - 67103 ANTEL31G CKT: 1    89.0    89.0    98.0    98.0    90.8    90.8     0.0
  SINGLE 3593 : 67101 ANTELOP3 - 67107 ANTEL32G CKT: 1    89.0    89.0    98.0    98.0    90.8    90.8     0.0

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 493) 34014 ADAMS  5 - 61984 AUSTIN 5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 3410 : 63070 PL VLLY5 - 63032 PL VLLY3 CKT: 1   218.7   217.1   223.0   223.0    97.0    96.2     0.8

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 494) 63256 DONDPIP7 - 63356 DON PIP9 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 3446 : 63256 DONDPIP7 - 63356 DON PIP9 CKT: 1    14.4    14.4    14.0    14.0   103.1   103.1     0.0

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 495) 66503 BLAIR  4 - 66530 WATERTN4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
```

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-----------------------------------------------------------------------------------------------------------------
  SINGLE 3451 : 63314 BIGSTON4 - 63315 BIGSTN1G CKT: 1   381.4   379.9   398.0   398.0    95.9    95.5     0.4

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 496) 66405 FTPECK 4 - 66415 FTPECK5G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 3495 : 66405 FTPECK 4 - 66414 FTPECK4G CKT: 1    46.2    46.2    48.0    48.0    96.2    96.2     0.0

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 497) 66405 FTPECK 4 - 66414 FTPECK4G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 3496 : 66405 FTPECK 4 - 66415 FTPECK5G CKT: 1    46.2    46.2    48.0    48.0    96.2    96.2     0.0

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 498) 66406 FTPECK 7 - 66410 FTPECK3G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 3498 : 66406 FTPECK 7 - 66410 FTPECK3G CKT: 2    20.0    20.0    22.0    22.0    90.9    90.9     0.0

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 499) 66510 FTRANDL7 - 66546 FTRDL12G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 3528 : 66510 FTRANDL7 - 64965 SPENCER7 CKT: 1    88.2    88.2    98.0    98.0    90.0    90.0     0.0

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 500) 66511 GAVINS 7 - 64751 BLMFLD 7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 3528 : 66510 FTRANDL7 - 64965 SPENCER7 CKT: 1    76.7    76.4    80.0    80.0    93.1    92.7     0.4

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 501) 66538 WHITE  7 -  6440 GI0303F1 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 3543 : 66538 WHITE  7 -  6440 GI0303F1 CKT: 1   201.2   201.2   120.0   120.0   167.6   167.6     0.0

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 502) 66538 WHITE  7 -  6440 GI0303F1 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 3544 : 66538 WHITE  7 -  6440 GI0303F1 CKT: 2   201.2   201.2   120.0   120.0   167.6   167.6     0.0

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 503) 66794 MORANV3T - 66999 MORANVI8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 3577 : 66752 DRAYTON4 - 67557 LETELER4 CKT: 1    52.3    52.3    50.0    50.0   104.5   104.5     0.0

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 504) 60153 MNTCELO7 - 60269 HASSAN 7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  009   2     : ** MULTIPLE CONTINGENCY **               160.2   160.1   140.0   140.0   116.7   116.7     0.0
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
              : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1
              : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
              : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
              : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
              : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
  SHC-CNC/ECK3: ** MULTIPLE CONTINGENCY **               129.4   129.3   140.0   140.0    93.1    93.0     0.1
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1

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 505) 60203 COON CK7 - 60253 TWIN LK7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  022       1 : ** MULTIPLE CONTINGENCY **               382.2   381.8   371.0   371.0   103.9   103.8     0.1
              : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
```

```
              : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
              : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
              : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
              : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
              : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
              : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
              : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
              : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
              : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
  022       3 : ** MULTIPLE CONTINGENCY **               354.3   353.8   371.0   371.0    96.3    96.2     0.1
              : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
              : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
              : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
              : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
              : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
              : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
  CNC-KOL/TER3: ** MULTIPLE CONTINGENCY **               346.3   345.7   371.0   371.0    94.1    94.0     0.1
              : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
              : 60202 COON CK3 - 60251 TERMINL3 CKT: 1

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 506) 60215 HYLNDLK7 - 60261 DEANLAK7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  705       1 : ** MULTIPLE CONTINGENCY **               186.0   185.8   194.0   194.0    95.3    95.3     0.0
              : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1
              : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
              : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 1
  BLL-EDP/PKL3: ** MULTIPLE CONTINGENCY **               182.7   182.5   194.0   194.0    92.5    92.4     0.1
              : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
              : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1

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 507) 60181 ALDRICH7 - 60210 FIFTHST7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  RIV TRIPLE  : ** MULTIPLE CONTINGENCY **               215.9   215.7   207.0   207.0   101.7   101.6     0.1
              : 60240 RIVRSID7 - 60226 MAIN ST7 CKT: 1
              : 60240 RIVRSID7 - 60209 ELLOTPK7 CKT: 1
              : 60240 RIVRSID7 - 60210 FIFTHST7 CKT: 1

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 508)     0 ICH7115. -     0          CKT:             PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  PKL-CDR/BCR7: ** MULTIPLE CONTINGENCY **                 0.0     0.0     0.0     0.0     0.0     0.0     0.0
              : 60234 PARKERS7 - 60346 CEDARLK7 CKT: P
              : 60234 PARKERS7 - 60259 BASCRK 7 CKT: 1
  MEL-BCR/PKL7: ** MULTIPLE CONTINGENCY **                 0.0     0.0     0.0     0.0     0.0     0.0     0.0
              : 60227 MEDLAKE7 - 60259 BASCRK 7 CKT: 1
              : 60234 PARKERS7 - 60346 CEDARLK7 CKT: P
              : 60249 STLSPRK7 - 60346 CEDARLK7 CKT: P
  MEL-BCR/CDR7: ** MULTIPLE CONTINGENCY **                 0.0     0.0     0.0     0.0     0.0     0.0     0.0
              : 60227 MEDLAKE7 - 60259 BASCRK 7 CKT: 1
              : 60234 PARKERS7 - 60346 CEDARLK7 CKT: P
  SINGLE 2995 : 60314 PINELKT5 - 69565 APL RVR5 CKT: 1   .....     0.0   .....     0.0   .....     0.0  *ELIM*

==================================================================================================================
 509) 60249 STLSPRK7 - 60346 CEDARLK7 CKT:  P          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  EDA-EDP/NMC7: ** MULTIPLE CONTINGENCY **               247.7   247.7   239.0   239.0   109.5   109.5     0.0
              : 60208 EDINA  7 - 60263 EDEN PR7 CKT: 1
              : 60208 EDINA  7 - 60280 NINE MI7 CKT: 1

==================================================================================================================
 510) 60136 MAPLE R7 - 60137 REDRIVR7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
```

```
-----------------------------------------------------------------------------------------------------------------
  SHY-CAS/CAS7: ** MULTIPLE CONTINGENCY **                241.9   241.9   159.0   159.0   153.5   153.4     0.1
              : 60134 SHEYNNE7 - 60135 CASS CO7 CKT: 1
              : 60134 SHEYNNE7 - 66761 MODEROW7 CKT: 1

=================================================================================================================
 511) 60117 CHERRYC7 - 60124 LINCNCO7 CKT:  1           PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SPK-CHC/WSF7: ** MULTIPLE CONTINGENCY **                166.9   166.9   191.0   191.0    92.8    92.8     0.0
              : 60129 SPLT RK7 - 60117 CHERRYC7 CKT: 1
              : 60129 SPLT RK7 - 60132 WSX FLS7 CKT: 1

=================================================================================================================
 512) 60121 MINEHAH7 - 60122 LAWRENC7 CKT:  1           PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SPK-CHC/WSF7: ** MULTIPLE CONTINGENCY **                291.8   291.8   240.0   240.0   122.7   122.7     0.0
              : 60129 SPLT RK7 - 60117 CHERRYC7 CKT: 1
              : 60129 SPLT RK7 - 60132 WSX FLS7 CKT: 1

=================================================================================================================
 513) 60121 MINEHAH7 - 60124 LINCNCO7 CKT:  1           PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SPK-CHC/WSF7: ** MULTIPLE CONTINGENCY **                250.9   250.9   240.0   240.0   107.7   107.7     0.0
              : 60129 SPLT RK7 - 60117 CHERRYC7 CKT: 1
              : 60129 SPLT RK7 - 60132 WSX FLS7 CKT: 1

=================================================================================================================
 514) 60124 LINCNCO7 - 60836 LINCLNC8 CKT:  1           PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  525      1  : ** MULTIPLE CONTINGENCY **                203.8   203.8    70.0    70.0   291.1   291.1     0.0
              : 60117 CHERRYC7 - 60132 WSX FLS7 CKT: 1
              : 60129 SPLT RK7 - 60132 WSX FLS7 CKT: 1
  SPK-CHC/WSF7: ** MULTIPLE CONTINGENCY **                 69.7    69.7    70.0    70.0    99.6    99.6     0.0
              : 60129 SPLT RK7 - 60117 CHERRYC7 CKT: 1
              : 60129 SPLT RK7 - 60132 WSX FLS7 CKT: 1

=================================================================================================================
 515) 60251 TERMINL3 - 61491 TERMID2Y CKT:  1           PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  022      4 : ** MULTIPLE CONTINGENCY **                638.0   637.1   672.0   672.0    94.9    94.8     0.1
              : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
              : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
              : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
              : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
              : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
              : 61492 TERMID1Y - 61187 TERTER19 CKT: 1

=================================================================================================================
 516) 60252 TERMINL7 - 61491 TERMID2Y CKT:  1           PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  022      4 : ** MULTIPLE CONTINGENCY **                638.0   637.1   672.0   672.0    94.9    94.8     0.1
              : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
              : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
              : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
              : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
              : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
              : 61492 TERMID1Y - 61187 TERTER19 CKT: 1

=================================================================================================================
 517) 60132 WSX FLS7 - 60850 WSX FLS8 CKT:  1           PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  525      1  : ** MULTIPLE CONTINGENCY **                103.5   103.5    70.0    70.0   147.9   147.9     0.0
              : 60117 CHERRYC7 - 60132 WSX FLS7 CKT: 1
```

```
              : 60129 SPLT RK7 - 60132 WSX FLS7 CKT: 1

==================================================================================================================
 518) 60836 LINCLNC8 - 60837 LINCTAP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  525      1  : ** MULTIPLE CONTINGENCY **               157.1   157.1    84.0    84.0   235.3   235.3     0.0
              : 60117 CHERRYC7 - 60132 WSX FLS7 CKT: 1
              : 60129 SPLT RK7 - 60132 WSX FLS7 CKT: 1

==================================================================================================================
 519) 60837 LINCTAP8 - 60849 SSX FLS8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  525      1  : ** MULTIPLE CONTINGENCY **               152.4   152.4    68.0    68.0   291.0   291.0     0.0
              : 60117 CHERRYC7 - 60132 WSX FLS7 CKT: 1
              : 60129 SPLT RK7 - 60132 WSX FLS7 CKT: 1

==================================================================================================================
 520) 60849 SSX FLS8 - 60850 WSX FLS8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  525      1  : ** MULTIPLE CONTINGENCY **               102.0   102.0    68.0    68.0   209.1   209.1     0.0
              : 60117 CHERRYC7 - 60132 WSX FLS7 CKT: 1
              : 60129 SPLT RK7 - 60132 WSX FLS7 CKT: 1

==================================================================================================================
 521) 60152 MNTCELO4 - 63043 ELK RIV4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  670     1   : ** MULTIPLE CONTINGENCY **               355.9   355.6   400.0   400.0    94.2    94.1     0.1
              : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
              : 63031 BUNKER 3 - 60160 SHERCO 3 CKT: 1
              : 63031 BUNKER 3 - 60202 COON CK3 CKT: 1
              : 60202 COON CK3 - 61487 CNCMID2Y CKT: 1
              : 61487 CNCMID2Y - 60203 COON CK7 CKT: 1
              : 61487 CNCMID2Y - 60655 CNCTER29 CKT: 1
              : 63046 BUNKER 4 - 63031 BUNKER 3 CKT: 1

==================================================================================================================
 522) 60884 YNGAMER8 - 60931 CARVRCO8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  710   2     : ** MULTIPLE CONTINGENCY **                50.1    50.1    47.0    47.0   106.8   106.7     0.1
              : 62925 DICKNSN7 - 60206 CROWRVR7 CKT: 1
              : 62925 DICKNSN7 - 62667 ST BONI7 CKT: 1
              : 62667 ST BONI7 - 60277 WWACNIA7 CKT: 1
              : 62667 ST BONI7 - 63021 ST BONI8 CKT: 1
  710   1     : ** MULTIPLE CONTINGENCY **                48.7    48.7    47.0    47.0   103.7   103.6     0.1
              : 62925 DICKNSN7 - 62667 ST BONI7 CKT: 1
              : 62667 ST BONI7 - 60277 WWACNIA7 CKT: 1
              : 62667 ST BONI7 - 63021 ST BONI8 CKT: 1

==================================================================================================================
 523) 60194 CARVRCO7 - 60931 CARVRCO8 CKT:  P          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  715       2 : ** MULTIPLE CONTINGENCY **                70.6    70.6    70.0    70.0   100.9   100.8     0.1
              : 62666 GLNDALE7 - 60243 SCOTTAP7 CKT: 1
              : 60242 SAVAGE 7 - 62668 EGLCKTP7 CKT: 1
              : 62666 GLNDALE7 - 62672 GLNDALE8 CKT: 1
              : 60243 SCOTTAP7 - 60244 SCOTTCO7 CKT: 1
              : 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1
              : 60194 CARVRCO7 - 60931 CARVRCO8 CKT: 1
              : 60190 BLK DOG7 - 60242 SAVAGE 7 CKT: 1
              : 62668 EGLCKTP7 - 62975 SHAKOPE7 CKT: 1
              : 62975 SHAKOPE7 - 60244 SCOTTCO7 CKT: 1
              : 60244 SCOTTCO7 - 60890 SCOTTCO8 CKT: 2
  715       4 : ** MULTIPLE CONTINGENCY **                68.9    68.9    70.0    70.0    98.4    98.4     0.0
```

```
              : 62666 GLNDALE7 - 60243 SCOTTAP7 CKT: 1
              : 62666 GLNDALE7 - 62672 GLNDALE8 CKT: 1
              : 60243 SCOTTAP7 - 60244 SCOTTCO7 CKT: 1
              : 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1
              : 60194 CARVRCO7 - 60931 CARVRCO8 CKT: 1

==================================================================================================================
 524) 62427 WILLMAR8 - 62437 SVEATAP8 CKT:  1  **NEW** PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  795         : ** MULTIPLE CONTINGENCY **                48.5   .....    53.0   .....    90.3   .....   *NEW*
              : 66550 GRANITF4 - 60150 MNVLTAP4 CKT: 1
              : 60148 MINVALY7 - 60149 MINVALT4 CKT: C
              : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1
              : 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1
              : 63054 PANTHER4 - 60742 PANTHER8 CKT: 1

==================================================================================================================
 525) 60238 REDROCK7 - 60344 WOODBUR7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  805         : ** MULTIPLE CONTINGENCY **               312.5   312.5   318.0   318.0    98.4    98.4     0.0
              : 60187 AS KING7 - 60176 BAYTOWN7 CKT: 1
              : 60222 KOLMNLK7 - 60224 LONG LK7 CKT: 1
              : 60224 LONG LK7 - 60176 BAYTOWN7 CKT: 1

==================================================================================================================
 526) 60133 SHEYNNE4 - 66435 FARGO  4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2201 : 63369 JAMESTN3 - 66791 CENTER 3 CKT: 1   394.6   394.1   391.0   391.0   100.0    99.8     0.2
  SINGLE 2197 : 63358 BUFFALO3 - 63369 JAMESTN3 CKT: 1   363.5   363.1   391.0   391.0    92.2    92.1     0.1
  SINGLE 2198 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1   355.8   355.3   391.0   391.0    90.6    90.4     0.2

**** LOADING LIMITERS ELIMINATED IN ACCC #2 FILE ****

==================================================================================================================
 527) 66498 J1CENTR8 - 66589 L1SXCTR8 CKT:  1  *ELIM*  PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2439 : 66499 L3HAWDN8 - 66590 L8ORANG8 CKT: 1   .....    34.2   .....    41.0   .....    90.4  *ELIM*

==================================================================================================================
 528) 66562 EAGLE  4 - 66579 EAGLE  8 CKT:  2  *ELIM*  PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2516 : 66562 EAGLE  4 - 66579 EAGLE  8 CKT: 1   .....    90.3   .....   100.0   .....    90.3  *ELIM*

==================================================================================================================
 529) 66580 SPENCR 8 - 66581 SPENCER8 CKT:  1  *ELIM*  PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2531 : 66581 SPENCER8 - 66591 J2PRMGR8 CKT: 1   .....    91.0   .....   100.0   .....    91.0  *ELIM*

==================================================================================================================
 530)     0  V E R L -     0   L I N  CKT: --  *ELIM*  PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2995 : 60314 PINELKT5 - 69565 APL RVR5 CKT: 1   .....     0.0   .....     0.0   .....     0.0  *ELIM*
  SINGLE 2995 : 60314 PINELKT5 - 69565 APL RVR5 CKT: 1   .....     0.0   .....     0.0   .....     0.0  *ELIM*

==================================================================================================================
 531)     0     NAME -     0     NAME CKT: CK  *ELIM*  PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2995 : 60314 PINELKT5 - 69565 APL RVR5 CKT: 1   .....     0.0   .....     0.0   .....     0.0  *ELIM*

==================================================================================================================
 532) 34137 TRIBOJI5 - 66563 SPENCER5 CKT:  1  *ELIM*  PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 957  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   .....   181.2   .....   195.0   .....    90.8  *ELIM*
```

```
**** -- LOW-- VOLTAGE LIMITER CHANGES *****

==========================================================================================
 533) 34242 JACKN M8                                                  PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **                            0.9076  0.9079 -0.0003
  SINGLE 369  : 34223 ELK    8 - 62725 WRT ETP8 CKT: 1               0.9177  0.9180 -0.0003
  SINGLE 1978 : 62721 WRT TP 8 - 62725 WRT ETP8 CKT: 1               0.9177  0.9181 -0.0004
  SINGLE 361  : 34217 WRTHNGT8 - 62722 WRT WTP8 CKT: 1               0.9196   .....   *NEW*
  SINGLE 368  : 34223 ELK    8 - 62722 WRT WTP8 CKT: 1               0.9196  0.9199 -0.0003
  SINGLE 360  : 34217 WRTHNGT8 - 34218 WORTHMN8 CKT: 1               0.9197   .....   *NEW*

==========================================================================================
 534) 34246 JACKSNM8                                                  PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **                            0.9094  0.9097 -0.0003
  SINGLE 369  : 34223 ELK    8 - 62725 WRT ETP8 CKT: 1               0.9195  0.9198 -0.0003
  SINGLE 1978 : 62721 WRT TP 8 - 62725 WRT ETP8 CKT: 1               0.9195  0.9199 -0.0004

==========================================================================================
 535) 60688 MNTVDEO8                                                  PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1               0.8659  0.8690 -0.0031
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1               0.8819  0.8842 -0.0023
  SINGLE 1052 : 60148 MINVALY7 - 60683 MINNVAL8 CKT: 2               0.8889  0.8892 -0.0003
  SINGLE 2449 : 66503 BLAIR  4 - 66550 GRANITF4 CKT: 1               0.8893  0.8866  0.0027
  SINGLE 1085 : 60170 MARSHAL7 - 60171 LYON CO7 CKT: 1               0.8946  0.8953 -0.0007
  SINGLE 1051 : 60148 MINVALY7 - 60683 MINNVAL8 CKT: 1               0.8976  0.8979 -0.0003
  SINGLE 1293 : 60287 NOBLES 7 - 60369 FENTON 7 CKT: C               0.8978  0.8988 -0.0010
  SINGLE 2503 : 66530 WATERTN4 - 66550 GRANITF4 CKT: 1               0.8980  0.8992 -0.0012
  SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1               0.8988  0.9001 -0.0013
  SINGLE 2926 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1               0.9040  0.9050 -0.0010
  SINGLE 2925 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1               0.9041  0.9050 -0.0009
  SINGLE 1056 : 60150 MNVLTAP4 - 66550 GRANITF4 CKT: 1               0.9045  0.9053 -0.0008
  SINGLE 1373 : 60371 ERIE RD7 - 66508 S3     7 CKT: 1               0.9062  0.9068 -0.0006
  SINGLE 21   : 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1               0.9067  0.9081 -0.0014
  SINGLE 2920 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1               0.9072  0.9080 -0.0008
  SINGLE 944  : 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1               0.9080  0.9084 -0.0004
  SINGLE 1142 : 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1               0.9081   .....   *NEW*
  BASE CASE   : **       BASE CASE      **                            0.9181  0.9184 -0.0003

==========================================================================================
 536) 60689 FIESTAC8                                                  PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1               0.8613  0.8645 -0.0032
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1               0.8774  0.8797 -0.0023
  SINGLE 1052 : 60148 MINVALY7 - 60683 MINNVAL8 CKT: 2               0.8845  0.8848 -0.0003
  SINGLE 2449 : 66503 BLAIR  4 - 66550 GRANITF4 CKT: 1               0.8849  0.8822  0.0027
  SINGLE 1085 : 60170 MARSHAL7 - 60171 LYON CO7 CKT: 1               0.8902  0.8909 -0.0007
  SINGLE 1051 : 60148 MINVALY7 - 60683 MINNVAL8 CKT: 1               0.8932  0.8935 -0.0003
  SINGLE 1293 : 60287 NOBLES 7 - 60369 FENTON 7 CKT: C               0.8934  0.8944 -0.0010
  SINGLE 2503 : 66530 WATERTN4 - 66550 GRANITF4 CKT: 1               0.8936  0.8948 -0.0012
  SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1               0.8944  0.8958 -0.0014
  SINGLE 2926 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1               0.8997  0.9006 -0.0009
  SINGLE 2925 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1               0.8997  0.9007 -0.0010
  SINGLE 1056 : 60150 MNVLTAP4 - 66550 GRANITF4 CKT: 1               0.9002  0.9010 -0.0008
  SINGLE 1373 : 60371 ERIE RD7 - 66508 S3     7 CKT: 1               0.9018  0.9025 -0.0007
  SINGLE 21   : 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1               0.9024  0.9037 -0.0013
  SINGLE 2920 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1               0.9028  0.9037 -0.0009
  SINGLE 944  : 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1               0.9036  0.9041 -0.0005
  SINGLE 1142 : 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1               0.9037   .....   *NEW*
  BASE CASE   : **       BASE CASE      **                            0.9138  0.9141 -0.0003
```

```
==========================================================================================
 537) 60694 RENVILL8                                                  PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1                0.8623  0.8654 -0.0031
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1                0.8784  0.8807 -0.0023
  SINGLE 1052 : 60148 MINVALY7 - 60683 MINNVAL8 CKT: 2                0.8855  0.8859 -0.0004
  SINGLE 2449 : 66503 BLAIR  4 - 66550 GRANITF4 CKT: 1                0.8859  0.8832  0.0027
  SINGLE 1085 : 60170 MARSHAL7 - 60171 LYON CO7 CKT: 1                0.8913  0.8919 -0.0006
  SINGLE 1051 : 60148 MINVALY7 - 60683 MINNVAL8 CKT: 1                0.8942  0.8946 -0.0004
  SINGLE 1293 : 60287 NOBLES 7 - 60369 FENTON 7 CKT: C                0.8944  0.8955 -0.0011
  SINGLE 2503 : 66530 WATERTN4 - 66550 GRANITF4 CKT: 1                0.8947  0.8959 -0.0012
  SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1                0.8954  0.8968 -0.0014
  SINGLE 2926 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1                0.9008  0.9017 -0.0009
  SINGLE 2925 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1                0.9008  0.9017 -0.0009
  SINGLE 1056 : 60150 MNVLTAP4 - 66550 GRANITF4 CKT: 1                0.9012  0.9020 -0.0008
  SINGLE 1373 : 60371 ERIE RD7 - 66508 S3     7 CKT: 1                0.9029  0.9036 -0.0007
  SINGLE 21   : 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1                0.9035  0.9048 -0.0013
  SINGLE 2920 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1                0.9039  0.9048 -0.0009
  SINGLE 944  : 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1                0.9047  0.9052 -0.0005
  SINGLE 1142 : 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1                0.9048   .....   *NEW*
  BASE CASE   : **       BASE CASE      **                            0.9149  0.9152 -0.0003

==========================================================================================
 538) 60695 DANUBE 8                                                  PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1                0.8517  0.8549 -0.0032
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1                0.8680  0.8704 -0.0024
  SINGLE 1052 : 60148 MINVALY7 - 60683 MINNVAL8 CKT: 2                0.8753  0.8756 -0.0003
  SINGLE 2449 : 66503 BLAIR  4 - 66550 GRANITF4 CKT: 1                0.8756  0.8729  0.0027
  SINGLE 1085 : 60170 MARSHAL7 - 60171 LYON CO7 CKT: 1                0.8811  0.8817 -0.0006
  SINGLE 1051 : 60148 MINVALY7 - 60683 MINNVAL8 CKT: 1                0.8841  0.8844 -0.0003
  SINGLE 1293 : 60287 NOBLES 7 - 60369 FENTON 7 CKT: C                0.8843  0.8853 -0.0010
  SINGLE 2503 : 66530 WATERTN4 - 66550 GRANITF4 CKT: 1                0.8845  0.8857 -0.0012
  SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1                0.8853  0.8867 -0.0014
  SINGLE 2926 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1                0.8907  0.8916 -0.0009
  SINGLE 2925 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1                0.8907  0.8917 -0.0010
  SINGLE 1056 : 60150 MNVLTAP4 - 66550 GRANITF4 CKT: 1                0.8912  0.8920 -0.0008
  SINGLE 1373 : 60371 ERIE RD7 - 66508 S3     7 CKT: 1                0.8929  0.8935 -0.0006
  SINGLE 21   : 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1                0.8934  0.8948 -0.0014
  SINGLE 2920 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1                0.8939  0.8947 -0.0008
  SINGLE 944  : 60101 FORBES 2 - 60198 CHIS-N 2 CKT: 1                0.8947  0.8951 -0.0004
  SINGLE 1142 : 60197 CHIS CO2 - 60198 CHIS-N 2 CKT: 1                0.8948   .....   *NEW*
  BASE CASE   : **       BASE CASE      **                            0.9050  0.9053 -0.0003
  SINGLE 985  : 60119 LKYNKTN7 - 60279 BUFFRID7 CKT: 1                0.9153  0.9157 -0.0004
  SINGLE 1400 : 60687 BUSH PK8 - 60688 MNTVDEO8 CKT: 1                0.9155  0.9158 -0.0003
  SINGLE 1396 : 60684 YELWMED8 - 60903 LYON CO8 CKT: 1                0.9156  0.9159 -0.0003
  SINGLE 1393 : 60683 MINNVAL8 - 60687 BUSH PK8 CKT: 1                0.9161  0.9165 -0.0004
  SINGLE 4    :  6010 ELLSBRO  - 60362 CHANRMB7 CKT: 1                0.9163  0.9166 -0.0003
  SINGLE 3    :  6010 ELLSBRO  - 60119 LKYNKTN7 CKT: 1                0.9163  0.9166 -0.0003
  SINGLE 3395 : 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1                0.9172  0.9175 -0.0003
  SINGLE 1392 : 60683 MINNVAL8 - 60684 YELWMED8 CKT: 1                0.9176  0.9176  0.0000

==========================================================================================
 539) 62365 ENTPRSW8                                                  PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **                            0.9107  0.9110 -0.0003

==========================================================================================
 540) 62366 ENTRPRS8                                                  PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **                            0.9057  0.9060 -0.0003
  SINGLE 369  : 34223 ELK    8 - 62725 WRT ETP8 CKT: 1                0.9158  0.9162 -0.0004
```

```
  SINGLE 1978 : 62721 WRT TP 8 - 62725 WRT ETP8 CKT: 1          0.9159  0.9162 -0.0003
  SINGLE 368  : 34223 ELK    8 - 62722 WRT WTP8 CKT: 1          0.9178  0.9181 -0.0003
  SINGLE 360  : 34217 WRTHNGT8 - 34218 WORTHMN8 CKT: 1          0.9178   .....   *NEW*
  SINGLE 361  : 34217 WRTHNGT8 - 62722 WRT WTP8 CKT: 1          0.9178   .....   *NEW*

==============================================================================================
 541) 34253 GARDNCY8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 30   : 34009 WINBAGO5 - 34257 WBGOJ N8 CKT: 1          0.8914  0.8921 -0.0007

==============================================================================================
 542) 34254 FARMLND8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 30   : 34009 WINBAGO5 - 34257 WBGOJ N8 CKT: 1          0.8926  0.8933 -0.0007

==============================================================================================
 543) 34255 VERNNCY8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 30   : 34009 WINBAGO5 - 34257 WBGOJ N8 CKT: 1          0.8937  0.8945 -0.0008

==============================================================================================
 544) 34256 WBGO   8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 30   : 34009 WINBAGO5 - 34257 WBGOJ N8 CKT: 1          0.9072  0.9079 -0.0007

==============================================================================================
 545) 34257 WBGOJ N8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 30   : 34009 WINBAGO5 - 34257 WBGOJ N8 CKT: 1          0.9106  0.9114 -0.0008

==============================================================================================
 546) 34266 AMBOY  8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 30   : 34009 WINBAGO5 - 34257 WBGOJ N8 CKT: 1          0.8968  0.8975 -0.0007

==============================================================================================
 547) 34277 STRLNGT8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 30   : 34009 WINBAGO5 - 34257 WBGOJ N8 CKT: 1          0.8948  0.8955 -0.0007

==============================================================================================
 548) 34278 WILWCKT8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 30   : 34009 WINBAGO5 - 34257 WBGOJ N8 CKT: 1          0.8971  0.8979 -0.0008

==============================================================================================
 549) 62326 WLL CRK8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 30   : 34009 WINBAGO5 - 34257 WBGOJ N8 CKT: 1          0.8950  0.8957 -0.0007

==============================================================================================
 550) 62327 STERLNG8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 30   : 34009 WINBAGO5 - 34257 WBGOJ N8 CKT: 1          0.8934  0.8942 -0.0008

==============================================================================================
 551) 62328 GARDENC8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 30   : 34009 WINBAGO5 - 34257 WBGOJ N8 CKT: 1          0.8908  0.8916 -0.0008

==============================================================================================
 552) 62880 MATAWAN8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
```

```
  SINGLE 464  : 34291 ALEA  E8 - 34293 HAYWD#18 CKT: 1          0.9076  0.9091 -0.0015
  SINGLE 37   : 34010 HAYWARD5 - 34294 HAYWD#28 CKT: 1          0.9102  0.9117 -0.0015
  SINGLE 36   : 34010 HAYWARD5 - 34293 HAYWD#18 CKT: 1          0.9113  0.9123 -0.0010
  SINGLE 463  : 34290 FARMSTD8 - 34291 ALEA  E8 CKT: 1          0.9163  0.9177 -0.0014

==============================================================================================
 553) 62881 ST OLAF8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 464  : 34291 ALEA  E8 - 34293 HAYWD#18 CKT: 1          0.9144  0.9158 -0.0014
  SINGLE 37   : 34010 HAYWARD5 - 34294 HAYWD#28 CKT: 1          0.9169  0.9184 -0.0015
  SINGLE 36   : 34010 HAYWARD5 - 34293 HAYWD#18 CKT: 1          0.9180  0.9190 -0.0010

==============================================================================================
 554) 34289 FAIRGNT8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 37   : 34010 HAYWARD5 - 34294 HAYWD#28 CKT: 1          0.9109  0.9125 -0.0016

==============================================================================================
 555) 34295 CO LINE8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 37   : 34010 HAYWARD5 - 34294 HAYWD#28 CKT: 1          0.9133  0.9148 -0.0015

==============================================================================================
 556) 34418 WAUKNIP8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 64   : 34023 LANSING8 - 34419 VALLEY 8 CKT: 1          0.9038  0.9041 -0.0003

==============================================================================================
 557) 34419 VALLEY 8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 64   : 34023 LANSING8 - 34419 VALLEY 8 CKT: 1          0.8936  0.8938 -0.0002

==============================================================================================
 558) 34420 LUD TAP8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 64   : 34023 LANSING8 - 34419 VALLEY 8 CKT: 1          0.9064  0.9067 -0.0003

==============================================================================================
 559) 68818 WAUKON                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 64   : 34023 LANSING8 - 34419 VALLEY 8 CKT: 1          0.8985  0.8987 -0.0002

==============================================================================================
 560) 69148 LUDLOW                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 64   : 34023 LANSING8 - 34419 VALLEY 8 CKT: 1          0.9043  0.9045 -0.0002

==============================================================================================
 561) 34029 SALEM  3                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 75   : 34029 SALEM  3 - 34036 ROCK CK3 CKT: 1          0.8908  0.8904  0.0004

==============================================================================================
 562) 34051 TOLEDO 7                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 114  : 34051 TOLEDO 7 - 34066 M-TOWN 7 CKT: 1          0.8930  0.8930  0.0000

==============================================================================================
 563) 34123 GR MND 5                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1          0.6989  0.6989  0.0000

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```
 564) 34125 GR MND 8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1          0.7995  0.7995  0.0000
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1          0.7995  0.7995  0.0000
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1          0.8013  0.8014 -0.0001

=========================================================================================
 565) 34540 GR MND Y                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1          0.6989  0.6989  0.0000
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1          0.6989  0.6989  0.0000

=========================================================================================
 566) 34705 DONAHUE                                           PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1          0.8000  0.8000  0.0000
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1          0.8000  0.8000  0.0000
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1          0.8018  0.8019 -0.0001

=========================================================================================
 567) 34706 PARKVIEW                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1          0.8002  0.8002  0.0000
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1          0.8002  0.8002  0.0000
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1          0.8020  0.8021 -0.0001

=========================================================================================
 568) 34707 BUFFALO                                           PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1          0.8003  0.8003  0.0000
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1          0.8003  0.8003  0.0000
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1          0.8020  0.8021 -0.0001

=========================================================================================
 569) 34815 DIXON JC                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1          0.8745  0.8745  0.0000
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1          0.8745  0.8745  0.0000
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1          0.8755  0.8756 -0.0001

=========================================================================================
 570) 34816 DIXON                                             PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1          0.8745  0.8745  0.0000
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1          0.8745  0.8745  0.0000
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1          0.8755  0.8756 -0.0001

=========================================================================================
 571) 34817 DOME TAP                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1          0.8316  0.8315  0.0001
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1          0.8316  0.8315  0.0001
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1          0.8329  0.8330 -0.0001

=========================================================================================
 572) 34818 DOME                                              PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1          0.8316  0.8315  0.0001
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1          0.8316  0.8315  0.0001
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1          0.8329  0.8330 -0.0001

=========================================================================================
 573) 34819 GRMND TW                                          PSTCNT2 PSTCNT1 PU-CHNG
```

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-----------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1          0.8156  0.8156  0.0000
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1          0.8156  0.8156  0.0000
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1          0.8171  0.8172 -0.0001

===============================================================================================
 574) 34820 GRMND TN                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1          0.7996  0.7995  0.0001
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1          0.7996  0.7995  0.0001
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1          0.8013  0.8014 -0.0001

===============================================================================================
 575) 34821 DELMAR R                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1          0.8003  0.8003  0.0000
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1          0.8003  0.8003  0.0000
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1          0.8021  0.8022 -0.0001

===============================================================================================
 576) 34822 DELMAR J                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1          0.8001  0.8000  0.0001
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1          0.8001  0.8000  0.0001
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1          0.8018  0.8019 -0.0001

===============================================================================================
 577) 34823 BLIERDOR                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1          0.8001  0.8000  0.0001
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1          0.8001  0.8000  0.0001
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1          0.8018  0.8019 -0.0001

===============================================================================================
 578) 34824 L NATION                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1          0.8001  0.8001  0.0000
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1          0.8001  0.8001  0.0000
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1          0.8019  0.8020 -0.0001

===============================================================================================
 579) 34849 OLIVE TA                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1          0.7997  0.7997  0.0000
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1          0.7997  0.7997  0.0000
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1          0.8014  0.8015 -0.0001

===============================================================================================
 580) 34850 DEWITT R                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1          0.8004  0.8004  0.0000
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1          0.8004  0.8004  0.0000
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1          0.8022  0.8023 -0.0001

===============================================================================================
 581) 34851 MALONE                                            PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1          0.8008  0.8008  0.0000
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1          0.8008  0.8008  0.0000
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1          0.8026  0.8026  0.0000

===============================================================================================
 582) 34852 OLIVE                                             PSTCNT2 PSTCNT1 PU-CHNG
```

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-----------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1          0.7997  0.7997  0.0000
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1          0.7997  0.7997  0.0000
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1          0.8014  0.8015 -0.0001

===============================================================================================
 583) 34853 MALONE T                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1          0.8007  0.8007  0.0000
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1          0.8007  0.8007  0.0000
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1          0.8025  0.8026 -0.0001

===============================================================================================
 584) 34854 ELVIRA                                            PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1          0.8010  0.8010  0.0000
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1          0.8010  0.8010  0.0000
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1          0.8027  0.8028 -0.0001

===============================================================================================
 585) 34855 COMANREC                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1          0.8010  0.8010  0.0000
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1          0.8010  0.8010  0.0000
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1          0.8028  0.8029 -0.0001

===============================================================================================
 586) 34539 E CALMSY                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 220  : 34122 E CALMS5 - 34539 E CALMSY CKT: 1          0.9156  0.9156  0.0000

===============================================================================================
 587) 34543 DUNDEE2Y  **NEW**                                 PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 239  : 34135 DUNDEE 5 - 34543 DUNDEE2Y CKT: 1          0.8472   .....   *NEW*

===============================================================================================
 588) 34227 LAMBRTN8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 373  : 34226 STORDEN8 - 62791 JFFRSTP8 CKT: 1          0.8971  0.8977 -0.0006

===============================================================================================
 589) 34228 WABASSO8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 373  : 34226 STORDEN8 - 62791 JFFRSTP8 CKT: 1          0.8988  0.8993 -0.0005

===============================================================================================
 590) 34274 JONVILT8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 373  : 34226 STORDEN8 - 62791 JFFRSTP8 CKT: 1          0.8999  0.9005 -0.0006

===============================================================================================
 591) 62730 JHNSNVL8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 373  : 34226 STORDEN8 - 62791 JFFRSTP8 CKT: 1          0.8984  0.8990 -0.0006

===============================================================================================
 592) 62731 WANDA  8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 373  : 34226 STORDEN8 - 62791 JFFRSTP8 CKT: 1          0.9058  0.9064 -0.0006

===============================================================================================
 593) 62734 CTTNWD 8                                          PSTCNT2 PSTCNT1 PU-CHNG
```

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-----------------------------------------------------------------------------------------------
  SINGLE 373  : 34226 STORDEN8 - 62791 JFFRSTP8 CKT: 1          0.8978  0.8983 -0.0005

===============================================================================================
 594) 62790 JEFFERS8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 373  : 34226 STORDEN8 - 62791 JFFRSTP8 CKT: 1          0.8912  0.8918 -0.0006

===============================================================================================
 595) 62791 JFFRSTP8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 373  : 34226 STORDEN8 - 62791 JFFRSTP8 CKT: 1          0.8933  0.8938 -0.0005

===============================================================================================
 596) 62800 NSTORDN8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 373  : 34226 STORDEN8 - 62791 JFFRSTP8 CKT: 1          0.8943  0.8949 -0.0006

===============================================================================================
 597) 34235 LAKFLDM8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 390  : 34235 LAKFLDM8 - 34241 LKFLD698 CKT: 1          0.9195  0.9200 -0.0005

===============================================================================================
 598) 60780 CLRKGNS8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 464  : 34291 ALEA  E8 - 34293 HAYWD#18 CKT: 1          0.9178  0.9192 -0.0014

===============================================================================================
 599) 60356 PAYNES 4                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1          0.9113  0.9138 -0.0025
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1          0.9145  0.9173 -0.0028

===============================================================================================
 600) 60693 SACRDHT8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1          0.9045  0.9075 -0.0030
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1          0.9198   .....   *NEW*

===============================================================================================
 601) 62425 WILLMAR7                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 2053 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1          0.8699  0.8707 -0.0008
  690         : ** MULTIPLE CONTINGENCY **                      0.8751  0.8757 -0.0006
              : 62425 WILLMAR7 - 62005 KERKHOT7 CKT: C
              : 60357 MAYNARD7 - 62005 KERKHOT7 CKT: 1
              : 62005 KERKHOT7 - 62006 KERKHO 7 CKT: 1
              : 62006 KERKHO 7 - 62001 BENSON 7 CKT: 1
  690    P1   : ** MULTIPLE CONTINGENCY **                      0.8751  0.8757 -0.0006
              : 62425 WILLMAR7 - 62005 KERKHOT7 CKT: C
              : 60357 MAYNARD7 - 62005 KERKHOT7 CKT: 1
              : 62005 KERKHOT7 - 62006 KERKHO 7 CKT: 1
              : 62006 KERKHO 7 - 62001 BENSON 7 CKT: 1
  SINGLE 1714 : 62005 KERKHOT7 - 62425 WILLMAR7 CKT: C          0.8759  0.8764 -0.0005
  500         : ** MULTIPLE CONTINGENCY **                      0.8841  0.8848 -0.0007
              : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
              : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1
  SINGLE 1895 : 62427 WILLMAR8 - 63050 WILLMAR4 CKT: 1          0.8916  0.8918 -0.0002
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1          0.8969  0.8991 -0.0022
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1          0.9046  0.9070 -0.0024
  SINGLE 2449 : 66503 BLAIR  4 - 66550 GRANITF4 CKT: 1          0.9164  0.9151  0.0013
  SINGLE 1707 : 62001 BENSON 7 - 62006 KERKHO 7 CKT: 1          0.9165  0.9170 -0.0005
```

```
  SINGLE 1713 : 62005 KERKHOT7 - 62006 KERKHO 7 CKT: 1          0.9173  0.9177 -0.0004
  SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1          0.9182  0.9194 -0.0012
  SINGLE 1375 : 60374 FIBROMN7 - 62001 BENSON 7 CKT: 1          0.9194  0.9199 -0.0005

==============================================================================================
 602) 62980 MCLEOD 4                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1          0.9067  0.9087 -0.0020
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1          0.9090  0.9098 -0.0008

==============================================================================================
 603) 62981 MCLEOD 7                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 2024 : 62980 MCLEOD 4 - 62981 MCLEOD 7 CKT: 1          0.9086  0.9090 -0.0004
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1          0.9103  0.9122 -0.0019
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1          0.9184  0.9177  0.0007

==============================================================================================
 604) 62982 HUTCHMN7                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1          0.9127  0.9145 -0.0018
  SINGLE 2024 : 62980 MCLEOD 4 - 62981 MCLEOD 7 CKT: 1          0.9132  0.9137 -0.0005

==============================================================================================
 605) 62983 HUTCH3M7                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1          0.9122  0.9140 -0.0018
  SINGLE 2024 : 62980 MCLEOD 4 - 62981 MCLEOD 7 CKT: 1          0.9122  0.9126 -0.0004

==============================================================================================
 606) 63050 WILLMAR4                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1          0.9108  0.9133 -0.0025
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1          0.9176   .....   *NEW*

==============================================================================================
 607) 63220 ELBOWLK7                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 2101 : 63219 GRANTCO7 - 63220 ELBOWLK7 CKT: 1          0.8449  0.8454 -0.0005
  SINGLE 2102 : 63219 GRANTCO7 - 63223 HOOT LK7 CKT: 1          0.9011  0.9015 -0.0004
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1          0.9132  0.9142 -0.0010
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1          0.9179  0.9198 -0.0019

==============================================================================================
 608) 63221 BRANDN 7                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 2101 : 63219 GRANTCO7 - 63220 ELBOWLK7 CKT: 1          0.8512  0.8517 -0.0005
  SINGLE 2104 : 63220 ELBOWLK7 - 63221 BRANDN 7 CKT: 1          0.8841  0.8839  0.0002
  SINGLE 2102 : 63219 GRANTCO7 - 63223 HOOT LK7 CKT: 1          0.9058  0.9061 -0.0003
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1          0.9061  0.9067 -0.0006
  SINGLE 2055 : 63051 HENNING4 - 63331 FERGSFL4 CKT: 1          0.9087  0.9094 -0.0007
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1          0.9097  0.9114 -0.0017
  SINGLE 2918 : 60144 DGLASCO7 - 62817 LSAUKTP7 CKT: 1          0.9108  0.9096  0.0012
  750         : ** MULTIPLE CONTINGENCY **                      0.9117  0.9104  0.0013
              : 62817 LSAUKTP7 - 60144 DGLASCO7 CKT: 1
              : 60144 DGLASCO7 - 60749 DGLAS C8 CKT: 1
  SINGLE 1953 : 62527 ELMO   7 - 62531 INMAN  7 CKT: 1          0.9146  0.9153 -0.0007
  SINGLE 2054 : 63051 HENNING4 - 63052 INMAN  4 CKT: 1          0.9147  0.9158 -0.0011
  SINGLE 1982 : 62752 MLTN TP7 - 67454 ALEXPLDM CKT: 1          0.9152  0.9159 -0.0007
  SINGLE 1427 : 60743 BELGRAD8 - 60760 PAYNES 8 CKT: 1          0.9158  0.9162 -0.0004
  SINGLE 1034 : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1          0.9164  0.9179 -0.0015
  675         : ** MULTIPLE CONTINGENCY **                      0.9164  0.9179 -0.0015
              : 60142 BENTON 3 - 63045 BENTON 4 CKT: 1
```

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              : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1
              : 60142 BENTON 3 - 63045 BENTON 4 CKT: 2
  SINGLE 1954 : 62527 ELMO   7 - 62752 MLTN TP7 CKT: 1          0.9164  0.9167 -0.0003
  SINGLE 2927 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1          0.9187  0.9190 -0.0003
  SINGLE 3434 : 63223 HOOT LK7 - 63324 HOOTLK3G CKT: 1          0.9195   .....   *NEW*

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 609) 67452 ALEXSS                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 2101 : 63219 GRANTCO7 - 63220 ELBOWLK7 CKT: 1          0.8663  0.8668 -0.0005
  SINGLE 2104 : 63220 ELBOWLK7 - 63221 BRANDN 7 CKT: 1          0.8933  0.8931  0.0002
  SINGLE 2918 : 60144 DGLASCO7 - 62817 LSAUKTP7 CKT: 1          0.9095  0.9081  0.0014
  750         : ** MULTIPLE CONTINGENCY **                      0.9096  0.9082  0.0014
              : 62817 LSAUKTP7 - 60144 DGLASCO7 CKT: 1
              : 60144 DGLASCO7 - 60749 DGLAS C8 CKT: 1
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1          0.9156  0.9159 -0.0003
  SINGLE 2055 : 63051 HENNING4 - 63331 FERGSFL4 CKT: 1          0.9166  0.9172 -0.0006
  SINGLE 1427 : 60743 BELGRAD8 - 60760 PAYNES 8 CKT: 1          0.9181  0.9184 -0.0003
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1          0.9183  0.9197 -0.0014

==============================================================================================
 610) 67453 ALEXSWM                                           PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 2101 : 63219 GRANTCO7 - 63220 ELBOWLK7 CKT: 1          0.8663  0.8668 -0.0005
  SINGLE 2104 : 63220 ELBOWLK7 - 63221 BRANDN 7 CKT: 1          0.8932  0.8930  0.0002
  SINGLE 2918 : 60144 DGLASCO7 - 62817 LSAUKTP7 CKT: 1          0.9096  0.9082  0.0014
  750         : ** MULTIPLE CONTINGENCY **                      0.9098  0.9083  0.0015
              : 62817 LSAUKTP7 - 60144 DGLASCO7 CKT: 1
              : 60144 DGLASCO7 - 60749 DGLAS C8 CKT: 1
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1          0.9155  0.9158 -0.0003
  SINGLE 2055 : 63051 HENNING4 - 63331 FERGSFL4 CKT: 1          0.9165  0.9171 -0.0006
  SINGLE 1427 : 60743 BELGRAD8 - 60760 PAYNES 8 CKT: 1          0.9181  0.9184 -0.0003
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1          0.9182  0.9197 -0.0015

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 611) 67454 ALEXPLDM                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 2101 : 63219 GRANTCO7 - 63220 ELBOWLK7 CKT: 1          0.8687  0.8692 -0.0005
  SINGLE 2104 : 63220 ELBOWLK7 - 63221 BRANDN 7 CKT: 1          0.8945  0.8943  0.0002
  SINGLE 2918 : 60144 DGLASCO7 - 62817 LSAUKTP7 CKT: 1          0.9128  0.9114  0.0014
  750         : ** MULTIPLE CONTINGENCY **                      0.9131  0.9115  0.0016
              : 62817 LSAUKTP7 - 60144 DGLASCO7 CKT: 1
              : 60144 DGLASCO7 - 60749 DGLAS C8 CKT: 1
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1          0.9163  0.9165 -0.0002
  SINGLE 2055 : 63051 HENNING4 - 63331 FERGSFL4 CKT: 1          0.9172  0.9179 -0.0007
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1          0.9190   .....   *NEW*

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 612) 34009 WINBAGO5  **NEW**                                 PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1          0.9199   .....   *NEW*

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 613) 34013 WNBAGOS5  **NEW**                                 PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1          0.9199   .....   *NEW*

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 614) 61085 BLUEE  8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1          0.9012  0.9029 -0.0017

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 615) 62005 KERKHOT7                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------
  SINGLE 2053 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1          0.9027  0.9035 -0.0008
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1          0.9152  0.9176 -0.0024
  500         : ** MULTIPLE CONTINGENCY **                      0.9177  0.9184 -0.0007
              : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
              : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1

=========================================================================================
 616) 62752 MLTN TP7                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------
  SINGLE 2101 : 63219 GRANTCO7 - 63220 ELBOWLK7 CKT: 1          0.8786  0.8791 -0.0005
  SINGLE 2104 : 63220 ELBOWLK7 - 63221 BRANDN 7 CKT: 1          0.9012  0.9010  0.0002
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1          0.9199   .....   *NEW*

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 617) 62753 MILTONA7                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------
  SINGLE 2101 : 63219 GRANTCO7 - 63220 ELBOWLK7 CKT: 1          0.8786  0.8791 -0.0005
  SINGLE 2104 : 63220 ELBOWLK7 - 63221 BRANDN 7 CKT: 1          0.9012  0.9010  0.0002
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1          0.9199   .....   *NEW*

=========================================================================================
 618) 63219 GRANTCO7                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------
  SINGLE 2102 : 63219 GRANTCO7 - 63223 HOOT LK7 CKT: 1          0.9021  0.9026 -0.0005
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1          0.9175  0.9186 -0.0011

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 619) 63222 ALEXAND7                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------
  SINGLE 2101 : 63219 GRANTCO7 - 63220 ELBOWLK7 CKT: 1          0.8691  0.8695 -0.0004
  SINGLE 2104 : 63220 ELBOWLK7 - 63221 BRANDN 7 CKT: 1          0.8955  0.8953  0.0002
  750         : ** MULTIPLE CONTINGENCY **                      0.9089  0.9075  0.0014
              : 62817 LSAUKTP7 - 60144 DGLASCO7 CKT: 1
              : 60144 DGLASCO7 - 60749 DGLAS C8 CKT: 1
  SINGLE 2918 : 60144 DGLASCO7 - 62817 LSAUKTP7 CKT: 1          0.9090  0.9076  0.0014
  SINGLE 2106 : 63222 ALEXAND7 - 67452 ALEXSS   CKT: 1          0.9129  0.9136 -0.0007
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1          0.9182  0.9184 -0.0002
  SINGLE 2055 : 63051 HENNING4 - 63331 FERGSFL4 CKT: 1          0.9189  0.9195 -0.0006
  SINGLE 1427 : 60743 BELGRAD8 - 60760 PAYNES 8 CKT: 1          0.9189  0.9192 -0.0003

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 620) 62302 ISLE   8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------
  SINGLE 1966 : 62642 ONAMIA 8 - 62652 RUMRVTP8 CKT: 1          0.6932  0.6926  0.0006
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.7853  0.7853  0.0000
  SINGLE 1854 : 62302 ISLE   8 - 62642 ONAMIA 8 CKT: 1          0.8326  0.8322  0.0004
  SINGLE 1798 : 62180 RIVTON 8 - 62190 OKLWNTP8 CKT: 1          0.8440  0.8437  0.0003
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1          0.8621  0.8630 -0.0009
  SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1          0.8626  0.8620  0.0006
  SINGLE 1811 : 62190 OKLWNTP8 - 62191 PINCTRT8 CKT: 1          0.8729  0.8729  0.0000
  SINGLE 1853 : 62301 MILACA 8 - 62652 RUMRVTP8 CKT: 1          0.8871  0.8881 -0.0010
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1          0.8946  0.8949 -0.0003
  SINGLE 1813 : 62191 PINCTRT8 - 62651 VINLDTP8 CKT: 1          0.9016  0.9016  0.0000
  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1          0.9057  0.9059 -0.0002
  SINGLE 1767 : 62124 ZIMERMN8 - 62149 N ER TP8 CKT: 1          0.9088  0.9088  0.0000
  SINGLE 1796 : 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1          0.9090  0.9090  0.0000
  SINGLE 1779 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1          0.9091  0.9090  0.0001
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1          0.9098  0.9103 -0.0005
  SINGLE 1971 : 62650 VINELND8 - 62651 VINLDTP8 CKT: 1          0.9113  0.9111  0.0002
  SINGLE 1034 : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1          0.9179  0.9184 -0.0005
  675         : ** MULTIPLE CONTINGENCY **                      0.9179  0.9184 -0.0005
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                : 60142 BENTON 3 - 63045 BENTON 4 CKT: 1
                : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1
                : 60142 BENTON 3 - 63045 BENTON 4 CKT: 2

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 621) 62643 OPSTEAD8                                                  PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1966 : 62642 ONAMIA 8 - 62652 RUMRVTP8 CKT: 1                0.6852  0.6847  0.0005
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1                0.7799  0.7799  0.0000
  SINGLE 1854 : 62302 ISLE   8 - 62642 ONAMIA 8 CKT: 1                0.8286  0.8282  0.0004
  SINGLE 1798 : 62180 RIVTON 8 - 62190 OKLWNTP8 CKT: 1                0.8401  0.8397  0.0004
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1                0.8586  0.8594 -0.0008
  SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1                0.8591  0.8584  0.0007
  SINGLE 1811 : 62190 OKLWNTP8 - 62191 PINCTRT8 CKT: 1                0.8697  0.8697  0.0000
  SINGLE 1853 : 62301 MILACA 8 - 62652 RUMRVTP8 CKT: 1                0.8842  0.8852 -0.0010
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1                0.8918  0.8921 -0.0003
  SINGLE 1813 : 62191 PINCTRT8 - 62651 VINLDTP8 CKT: 1                0.8990  0.8990  0.0000
  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1                0.9031  0.9033 -0.0002
  SINGLE 1767 : 62124 ZIMERMN8 - 62149 N ER TP8 CKT: 1                0.9064  0.9063  0.0001
  SINGLE 1796 : 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1                0.9065  0.9065  0.0000
  SINGLE 1779 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1                0.9066  0.9065  0.0001
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1                0.9074  0.9078 -0.0004
  SINGLE 1971 : 62650 VINELND8 - 62651 VINLDTP8 CKT: 1                0.9089  0.9086  0.0003
  SINGLE 1034 : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1                0.9156  0.9161 -0.0005
  675         : ** MULTIPLE CONTINGENCY **                            0.9156  0.9161 -0.0005
                : 60142 BENTON 3 - 63045 BENTON 4 CKT: 1
                : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1
                : 60142 BENTON 3 - 63045 BENTON 4 CKT: 2

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 622) 62644 GLEN   8                                                  PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1966 : 62642 ONAMIA 8 - 62652 RUMRVTP8 CKT: 1                0.6784  0.6778  0.0006
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1                0.7762  0.7762  0.0000
  SINGLE 1854 : 62302 ISLE   8 - 62642 ONAMIA 8 CKT: 1                0.8268  0.8263  0.0005
  SINGLE 1798 : 62180 RIVTON 8 - 62190 OKLWNTP8 CKT: 1                0.8382  0.8378  0.0004
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1                0.8573  0.8581 -0.0008
  SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1                0.8577  0.8571  0.0006
  SINGLE 1811 : 62190 OKLWNTP8 - 62191 PINCTRT8 CKT: 1                0.8687  0.8687  0.0000
  SINGLE 1853 : 62301 MILACA 8 - 62652 RUMRVTP8 CKT: 1                0.8836  0.8846 -0.0010
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1                0.8914  0.8917 -0.0003
  SINGLE 1813 : 62191 PINCTRT8 - 62651 VINLDTP8 CKT: 1                0.8989  0.8988  0.0001
  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1                0.9030  0.9032 -0.0002
  SINGLE 1767 : 62124 ZIMERMN8 - 62149 N ER TP8 CKT: 1                0.9064  0.9063  0.0001
  SINGLE 1796 : 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1                0.9065  0.9065  0.0000
  SINGLE 1779 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1                0.9066  0.9065  0.0001
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1                0.9074  0.9078 -0.0004
  SINGLE 1971 : 62650 VINELND8 - 62651 VINLDTP8 CKT: 1                0.9090  0.9087  0.0003
  SINGLE 1034 : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1                0.9158  0.9163 -0.0005
  675         : ** MULTIPLE CONTINGENCY **                            0.9158  0.9163 -0.0005
                : 60142 BENTON 3 - 63045 BENTON 4 CKT: 1
                : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1
                : 60142 BENTON 3 - 63045 BENTON 4 CKT: 2

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 623) 62645 SPIRITL8                                                  PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1966 : 62642 ONAMIA 8 - 62652 RUMRVTP8 CKT: 1                0.6668  0.6661  0.0007
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1                0.7682  0.7682  0.0000
  SINGLE 1854 : 62302 ISLE   8 - 62642 ONAMIA 8 CKT: 1                0.8208  0.8203  0.0005
  SINGLE 1798 : 62180 RIVTON 8 - 62190 OKLWNTP8 CKT: 1                0.8322  0.8319  0.0003
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1                0.8519  0.8528 -0.0009
  SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1                0.8524  0.8517  0.0007
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  SINGLE 1811 : 62190 OKLWNTP8 - 62191 PINCTRT8 CKT: 1          0.8637  0.8636  0.0001
  SINGLE 1853 : 62301 MILACA 8 - 62652 RUMRVTP8 CKT: 1          0.8791  0.8801 -0.0010
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1          0.8871  0.8874 -0.0003
  SINGLE 1813 : 62191 PINCTRT8 - 62651 VINLDTP8 CKT: 1          0.8948  0.8948  0.0000
  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1          0.8991  0.8993 -0.0002
  SINGLE 1767 : 62124 ZIMERMN8 - 62149 N ER TP8 CKT: 1          0.9025  0.9024  0.0001
  SINGLE 1796 : 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1          0.9027  0.9026  0.0001
  SINGLE 1779 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1          0.9028  0.9027  0.0001
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1          0.9035  0.9040 -0.0005
  SINGLE 1971 : 62650 VINELND8 - 62651 VINLDTP8 CKT: 1          0.9053  0.9050  0.0003
  SINGLE 1034 : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1          0.9122  0.9127 -0.0005
  675         : ** MULTIPLE CONTINGENCY **                      0.9122  0.9127 -0.0005
              : 60142 BENTON 3 - 63045 BENTON 4 CKT: 1
              : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1
              : 60142 BENTON 3 - 63045 BENTON 4 CKT: 2
  SINGLE 1851 : 62297 BENTON 8 - 62300 MINDEN 8 CKT: 1          0.9194  0.9195 -0.0001
  SINGLE 1789 : 62141 ISANTTP8 - 62143 ATHNSSW8 CKT: 1          0.9198  0.9199 -0.0001

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 624) 62647 SPRTLKS8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1966 : 62642 ONAMIA 8 - 62652 RUMRVTP8 CKT: 1          0.6695  0.6689  0.0006
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.7706  0.7706  0.0000
  SINGLE 1854 : 62302 ISLE   8 - 62642 ONAMIA 8 CKT: 1          0.8230  0.8226  0.0004
  SINGLE 1798 : 62180 RIVTON 8 - 62190 OKLWNTP8 CKT: 1          0.8345  0.8341  0.0004
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1          0.8541  0.8550 -0.0009
  SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1          0.8546  0.8539  0.0007
  SINGLE 1811 : 62190 OKLWNTP8 - 62191 PINCTRT8 CKT: 1          0.8659  0.8658  0.0001
  SINGLE 1853 : 62301 MILACA 8 - 62652 RUMRVTP8 CKT: 1          0.8812  0.8822 -0.0010
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1          0.8892  0.8895 -0.0003
  SINGLE 1813 : 62191 PINCTRT8 - 62651 VINLDTP8 CKT: 1          0.8969  0.8969  0.0000
  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1          0.9012  0.9014 -0.0002
  SINGLE 1767 : 62124 ZIMERMN8 - 62149 N ER TP8 CKT: 1          0.9046  0.9045  0.0001
  SINGLE 1796 : 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1          0.9048  0.9047  0.0001
  SINGLE 1779 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1          0.9049  0.9048  0.0001
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1          0.9056  0.9061 -0.0005
  SINGLE 1971 : 62650 VINELND8 - 62651 VINLDTP8 CKT: 1          0.9074  0.9070  0.0004
  SINGLE 1034 : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1          0.9143  0.9148 -0.0005
  675         : ** MULTIPLE CONTINGENCY **                      0.9143  0.9148 -0.0005
              : 60142 BENTON 3 - 63045 BENTON 4 CKT: 1
              : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1
              : 60142 BENTON 3 - 63045 BENTON 4 CKT: 2

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 625) 62648 OPSTDTP8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1966 : 62642 ONAMIA 8 - 62652 RUMRVTP8 CKT: 1          0.6854  0.6848  0.0006
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.7801  0.7801  0.0000
  SINGLE 1854 : 62302 ISLE   8 - 62642 ONAMIA 8 CKT: 1          0.8288  0.8284  0.0004
  SINGLE 1798 : 62180 RIVTON 8 - 62190 OKLWNTP8 CKT: 1          0.8402  0.8399  0.0003
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1          0.8587  0.8596 -0.0009
  SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1          0.8592  0.8586  0.0006
  SINGLE 1811 : 62190 OKLWNTP8 - 62191 PINCTRT8 CKT: 1          0.8698  0.8698  0.0000
  SINGLE 1853 : 62301 MILACA 8 - 62652 RUMRVTP8 CKT: 1          0.8843  0.8853 -0.0010
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1          0.8920  0.8922 -0.0002
  SINGLE 1813 : 62191 PINCTRT8 - 62651 VINLDTP8 CKT: 1          0.8992  0.8991  0.0001
  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1          0.9033  0.9035 -0.0002
  SINGLE 1767 : 62124 ZIMERMN8 - 62149 N ER TP8 CKT: 1          0.9065  0.9064  0.0001
  SINGLE 1779 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1          0.9067  0.9067  0.0000
  SINGLE 1796 : 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1          0.9067  0.9066  0.0001
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1          0.9075  0.9079 -0.0004
  SINGLE 1971 : 62650 VINELND8 - 62651 VINLDTP8 CKT: 1          0.9091  0.9088  0.0003
  SINGLE 1034 : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1          0.9157  0.9162 -0.0005
```

```
 675          : ** MULTIPLE CONTINGENCY **                          0.9157  0.9162 -0.0005
              : 60142 BENTON 3 - 63045 BENTON 4 CKT: 1
              : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1
              : 60142 BENTON 3 - 63045 BENTON 4 CKT: 2

==============================================================================================
 626) 60686 E MELRO8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1435 : 60755 FREEPRT8 - 60756 ALBANY 8 CKT: 1           0.8765  0.8772 -0.0007
  SINGLE 3093 : 60755 FREEPRT8 - 62829 MILWDTP8 CKT: 1           0.8852  0.8862 -0.0010
  SINGLE 1431 : 60749 DGLAS C8 - 60750 OSAKIS 8 CKT: 1           0.8855  0.8847  0.0008
  SINGLE 1433 : 60752 BLCKOAK8 - 60754 MELRSMU8 CKT: 1           0.8914  0.8909  0.0005
  SINGLE 1082 : 60163 WST CLD7 - 60732 WST CLD8 CKT: 1           0.8945  0.8953 -0.0008
  SINGLE 3091 : 60750 OSAKIS 8 - 62820 W UNION8 CKT: 1           0.8959  0.8956  0.0003
  SINGLE 3039 : 60686 E MELRO8 - 62829 MILWDTP8 CKT: 1           0.8975  0.8993 -0.0018
  SINGLE 3099 : 60760 PAYNES 8 - 62824 ZION TP8 CKT: 1           0.9025  0.9029 -0.0004
  SINGLE 3106 : 60768 ELRSATP8 - 62824 ZION TP8 CKT: 1           0.9064  0.9075 -0.0011
  SINGLE 1438 : 60759 STJOSPH8 - 61189 WATAB  8 CKT: 1           0.9142  0.9149 -0.0007
  SINGLE 1434 : 60753 MEIRGRV8 - 60768 ELRSATP8 CKT: 1           0.9178  0.9200 -0.0022
  SINGLE 1437 : 60758 JOHNS U8 - 61189 WATAB  8 CKT: 1           0.9182  0.9153  0.0029

==============================================================================================
 627) 60732 WST CLD8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1082 : 60163 WST CLD7 - 60732 WST CLD8 CKT: 1           0.8457  0.8467 -0.0010

==============================================================================================
 628) 60752 BLCKOAK8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1431 : 60749 DGLAS C8 - 60750 OSAKIS 8 CKT: 1           0.8712  0.8704  0.0008
  SINGLE 3091 : 60750 OSAKIS 8 - 62820 W UNION8 CKT: 1           0.8837  0.8834  0.0003
  SINGLE 3099 : 60760 PAYNES 8 - 62824 ZION TP8 CKT: 1           0.8950  0.8954 -0.0004
  SINGLE 1435 : 60755 FREEPRT8 - 60756 ALBANY 8 CKT: 1           0.8983  0.8989 -0.0006
  SINGLE 3106 : 60768 ELRSATP8 - 62824 ZION TP8 CKT: 1           0.8998  0.9009 -0.0011
  SINGLE 3093 : 60755 FREEPRT8 - 62829 MILWDTP8 CKT: 1           0.9043  0.9052 -0.0009
  SINGLE 1082 : 60163 WST CLD7 - 60732 WST CLD8 CKT: 1           0.9116  0.9125 -0.0009
  SINGLE 3039 : 60686 E MELRO8 - 62829 MILWDTP8 CKT: 1           0.9130  0.9147 -0.0017
  SINGLE 1434 : 60753 MEIRGRV8 - 60768 ELRSATP8 CKT: 1           0.9141  0.9161 -0.0020
  SINGLE 1432 : 60752 BLCKOAK8 - 60753 MEIRGRV8 CKT: 1           0.9184  0.9198 -0.0014
  SINGLE 1399 : 60686 E MELRO8 - 60754 MELRSMU8 CKT: 1           0.9198   .....   *NEW*

==============================================================================================
 629) 60753 MEIRGRV8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1431 : 60749 DGLAS C8 - 60750 OSAKIS 8 CKT: 1           0.8840  0.8833  0.0007
  SINGLE 3099 : 60760 PAYNES 8 - 62824 ZION TP8 CKT: 1           0.8904  0.8907 -0.0003
  SINGLE 3091 : 60750 OSAKIS 8 - 62820 W UNION8 CKT: 1           0.8951  0.8948  0.0003
  SINGLE 3106 : 60768 ELRSATP8 - 62824 ZION TP8 CKT: 1           0.8958  0.8970 -0.0012
  SINGLE 1435 : 60755 FREEPRT8 - 60756 ALBANY 8 CKT: 1           0.9084  0.9090 -0.0006
  SINGLE 1434 : 60753 MEIRGRV8 - 60768 ELRSATP8 CKT: 1           0.9133  0.9152 -0.0019
  SINGLE 3093 : 60755 FREEPRT8 - 62829 MILWDTP8 CKT: 1           0.9138  0.9146 -0.0008
  SINGLE 1082 : 60163 WST CLD7 - 60732 WST CLD8 CKT: 1           0.9199   .....   *NEW*

==============================================================================================
 630) 60754 MELRSMU8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1431 : 60749 DGLAS C8 - 60750 OSAKIS 8 CKT: 1           0.8739  0.8731  0.0008
  SINGLE 1435 : 60755 FREEPRT8 - 60756 ALBANY 8 CKT: 1           0.8799  0.8805 -0.0006
  SINGLE 1433 : 60752 BLCKOAK8 - 60754 MELRSMU8 CKT: 1           0.8814  0.8809  0.0005
  SINGLE 3091 : 60750 OSAKIS 8 - 62820 W UNION8 CKT: 1           0.8853  0.8850  0.0003
  SINGLE 3093 : 60755 FREEPRT8 - 62829 MILWDTP8 CKT: 1           0.8875  0.8884 -0.0009
  SINGLE 3099 : 60760 PAYNES 8 - 62824 ZION TP8 CKT: 1           0.8934  0.8938 -0.0004
  SINGLE 1082 : 60163 WST CLD7 - 60732 WST CLD8 CKT: 1           0.8962  0.8971 -0.0009
```

```
  SINGLE 3106 : 60768 ELRSATP8 - 62824 ZION TP8 CKT: 1          0.8977  0.8988 -0.0011
  SINGLE 3039 : 60686 E MELRO8 - 62829 MILWDTP8 CKT: 1          0.8984  0.9001 -0.0017
  SINGLE 1399 : 60686 E MELRO8 - 60754 MELRSMU8 CKT: 1          0.9065  0.9072 -0.0007
  SINGLE 1434 : 60753 MEIRGRV8 - 60768 ELRSATP8 CKT: 1          0.9105  0.9126 -0.0021
  SINGLE 1438 : 60759 STJOSPH8 - 61189 WATAB  8 CKT: 1          0.9133  0.9141 -0.0008
  SINGLE 1432 : 60752 BLCKOAK8 - 60753 MEIRGRV8 CKT: 1          0.9143  0.9157 -0.0014
  SINGLE 2101 : 63219 GRANTCO7 - 63220 ELBOWLK7 CKT: 1          0.9168  0.9172 -0.0004
  SINGLE 1437 : 60758 JOHNS U8 - 61189 WATAB  8 CKT: 1          0.9171  0.9142  0.0029
  SINGLE 3097 : 60758 JOHNS U8 - 62831 BRCKWTP8 CKT: 1          0.9197   .....   *NEW*

==============================================================================================
 631) 60755 FREEPRT8                                           PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1435 : 60755 FREEPRT8 - 60756 ALBANY 8 CKT: 1          0.8692  0.8698 -0.0006
  SINGLE 1082 : 60163 WST CLD7 - 60732 WST CLD8 CKT: 1          0.8925  0.8934 -0.0009
  SINGLE 1438 : 60759 STJOSPH8 - 61189 WATAB  8 CKT: 1          0.9198   .....   *NEW*

==============================================================================================
 632) 60756 ALBANY 8                                           PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1082 : 60163 WST CLD7 - 60732 WST CLD8 CKT: 1          0.8967  0.8975 -0.0008

==============================================================================================
 633) 60757 AVON   8                                           PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1082 : 60163 WST CLD7 - 60732 WST CLD8 CKT: 1          0.8716  0.8725 -0.0009
  SINGLE 1438 : 60759 STJOSPH8 - 61189 WATAB  8 CKT: 1          0.9192  0.9199 -0.0007

==============================================================================================
 634) 60758 JOHNS U8                                           PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1082 : 60163 WST CLD7 - 60732 WST CLD8 CKT: 1          0.8599  0.8609 -0.0010
  SINGLE 1438 : 60759 STJOSPH8 - 61189 WATAB  8 CKT: 1          0.9134  0.9141 -0.0007
  SINGLE 1435 : 60758 JOHNS U8 - 61189 WATAB  8 CKT: 1          0.9188   .....  *ELIM*

==============================================================================================
 635) 60759 STJOSPH8                                           PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1082 : 60163 WST CLD7 - 60732 WST CLD8 CKT: 1          0.8513  0.8523 -0.0010

==============================================================================================
 636) 61189 WATAB  8                                           PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1082 : 60163 WST CLD7 - 60732 WST CLD8 CKT: 1          0.8524  0.8534 -0.0010
  SINGLE 1438 : 60759 STJOSPH8 - 61189 WATAB  8 CKT: 1          0.9124  0.9131 -0.0007

==============================================================================================
 637) 60188 RIVERWD7                                           PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1119 : 60188 RIVERWD7 - 60200 BLK DG27 CKT: 1          0.9047  0.9048 -0.0001

==============================================================================================
 638) 60343 WILLPIP7                                           PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1119 : 60188 RIVERWD7 - 60200 BLK DG27 CKT: 1          0.9199  0.9200 -0.0001

==============================================================================================
 639) 60250 TANRSLK7                                           PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  RRK-AFT/WDY7: ** MULTIPLE CONTINGENCY **                      0.8908  0.8908  0.0000
              : 60238 REDROCK7 - 60179 AFTON  7 CKT: 1
              : 60238 REDROCK7 - 60344 WOODBUR7 CKT: 1
  SINGLE 1238 : 60238 REDROCK7 - 60344 WOODBUR7 CKT: 1          0.8919  0.8919  0.0000
```

```
==========================================================================================
 640) 60344 WOODBUR7                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  RRK-AFT/WDY7: ** MULTIPLE CONTINGENCY **                           0.8857  0.8857  0.0000
              : 60238 REDROCK7 - 60179 AFTON  7 CKT: 1
              : 60238 REDROCK7 - 60344 WOODBUR7 CKT: 1
  SINGLE 1238 : 60238 REDROCK7 - 60344 WOODBUR7 CKT: 1               0.8868  0.8868  0.0000

==========================================================================================
 641) 60284 WATOWAN7                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1288 : 60284 WATOWAN7 - 60380 MARTINC7 CKT: P               0.8892  0.8896 -0.0004
  SINGLE 1360 : 60331 LKFLDXL3 - 60380 MARTINC7 CKT: P               0.8927  0.8931 -0.0004

==========================================================================================
 642) 60310 MONROCO5                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1326 : 60308 LACROSS5 - 60310 MONROCO5 CKT: 1               0.8802  0.8803 -0.0001

==========================================================================================
 643) 60320 HYDROLN5                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  835         : ** MULTIPLE CONTINGENCY **                           0.9060  0.9061 -0.0001
              : 60282 REDCDR 5 - 60319 WHEATTP5 CKT: 1
              : 60319 WHEATTP5 - 60318 WHEATON5 CKT: 1
              : 60319 WHEATTP5 - 60320 HYDROLN5 CKT: 1
  SINGLE 1350 : 60319 WHEATTP5 - 60320 HYDROLN5 CKT: 1               0.9063  0.9064 -0.0001

==========================================================================================
 644) 60380 MARTINC7                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1360 : 60331 LKFLDXL3 - 60380 MARTINC7 CKT: P               0.8931  0.8935 -0.0004

==========================================================================================
 645) 60808 EAGLELK8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1377 : 60650 WILMART8 - 60831 EASTWD28 CKT: 1               0.8990  0.8990  0.0000

==========================================================================================
 646) 60827 LKEMILY8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 3024 : 60650 WILMART8 - 62336 JHNSNTP8 CKT: 1               0.9007  0.9005  0.0002
  SINGLE 1377 : 60650 WILMART8 - 60831 EASTWD28 CKT: 1               0.9198  0.9200 -0.0002

==========================================================================================
 647) 60831 EASTWD28                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1377 : 60650 WILMART8 - 60831 EASTWD28 CKT: 1               0.8964  0.8964  0.0000

==========================================================================================
 648) 61127 LDYSMTH8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1385 : 60662 BIGFALL8 - 61129 WHTTAIL8 CKT: 1               0.9043  0.9045 -0.0002

==========================================================================================
 649) 61129 WHTTAIL8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1385 : 60662 BIGFALL8 - 61129 WHTTAIL8 CKT: 1               0.9043  0.9045 -0.0002

==========================================================================================
 650) 61130 TRLSEND8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
```

```
  SINGLE 1385 : 60662 BIGFALL8 - 61129 WHTTAIL8 CKT: 1          0.9141  0.9143 -0.0002

==================================================================================================
 651) 61136 EDGWATR8                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1387 : 60663 STONELK8 - 61137 SANDLK 8 CKT: 1          0.8931  0.8931  0.0000

==================================================================================================
 652) 61137 SANDLK 8                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1387 : 60663 STONELK8 - 61137 SANDLK 8 CKT: 1          0.8871  0.8871  0.0000

==================================================================================================
 653) 60704 KIMBALL8                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 3055 : 60717 WAKEFLD8 - 62846 FRHV TP8 CKT: 1          0.8925  0.8925  0.0000
  SINGLE 3047 : 60703 WATKINS8 - 62620 WATKINS8 CKT: 1          0.8953  0.8952  0.0001
  SINGLE 3051 : 60705 LUXBGTP8 - 62846 FRHV TP8 CKT: 1          0.8994  0.8993  0.0001
  SINGLE 1407 : 60703 WATKINS8 - 60704 KIMBALL8 CKT: 1          0.9033  0.9032  0.0001
  SINGLE 3049 : 60705 LUXBGTP8 - 62620 WATKINS8 CKT: 1          0.9176  0.9176  0.0000

==================================================================================================
 654) 60712 ANNDALE8                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.8686  0.8690 -0.0004
  SINGLE 2013 : 62938 OTSEGO 8 - 63020 ELK RIV8 CKT: 1          0.9017  0.9017  0.0000
  SINGLE 3055 : 60717 WAKEFLD8 - 62846 FRHV TP8 CKT: 1          0.9104  0.9104  0.0000
  SINGLE 3047 : 60703 WATKINS8 - 62620 WATKINS8 CKT: 1          0.9113  0.9113  0.0000
  SINGLE 3051 : 60705 LUXBGTP8 - 62846 FRHV TP8 CKT: 1          0.9146  0.9146  0.0000
  SINGLE 1407 : 60703 WATKINS8 - 60704 KIMBALL8 CKT: 1          0.9162  0.9162  0.0000
  SINGLE 2000 : 62929 ALBERTV8 - 62938 OTSEGO 8 CKT: 1          0.9182  0.9187 -0.0005
  SINGLE 2023 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1          0.9195  0.9200 -0.0005
  680         : ** MULTIPLE CONTINGENCY **                      0.9191   .....  *ELIM*
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1

==================================================================================================
 655) 60761 SOUTHVN8                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.8951  0.8956 -0.0005
  SINGLE 3055 : 60717 WAKEFLD8 - 62846 FRHV TP8 CKT: 1          0.9008  0.9007  0.0001
  SINGLE 3047 : 60703 WATKINS8 - 62620 WATKINS8 CKT: 1          0.9029  0.9029  0.0000
  SINGLE 3051 : 60705 LUXBGTP8 - 62846 FRHV TP8 CKT: 1          0.9065  0.9064  0.0001
  SINGLE 1407 : 60703 WATKINS8 - 60704 KIMBALL8 CKT: 1          0.9094  0.9094  0.0000
  SINGLE 2013 : 62938 OTSEGO 8 - 63020 ELK RIV8 CKT: 1          0.9195  0.9195  0.0000

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 656) 62932 GOOSELK8                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.8187  0.8192 -0.0005
  SINGLE 2013 : 62938 OTSEGO 8 - 63020 ELK RIV8 CKT: 1          0.8759  0.8760 -0.0001
  SINGLE 2023 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1          0.8910  0.8916 -0.0006
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1          0.8927  0.8928 -0.0001
  680         : ** MULTIPLE CONTINGENCY **                      0.8935  0.8921  0.0014
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
  SINGLE 2000 : 62929 ALBERTV8 - 62938 OTSEGO 8 CKT: 1          0.8952  0.8957 -0.0005
  SINGLE 1787 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1          0.9000  0.8991  0.0009
  SINGLE 2019 : 62944 GOOSETP8 - 63024 MAPLE 1G CKT: 1          0.9043  0.9041  0.0002
  SINGLE 2010 : 62935 MAPLELK8 - 63024 MAPLE 1G CKT: 1          0.9045  0.9042  0.0003
  SINGLE 1785 : 62138 BRGGLKS8 - 62139 CABLETP8 CKT: 1          0.9089  0.9072  0.0017
  SINGLE 2001 : 62929 ALBERTV8 - 62949 BLKLKTP8 CKT: 1          0.9113  0.9117 -0.0004
  SINGLE 1765 : 62122 WESTEND8 - 62138 BRGGLKS8 CKT: 1          0.9127  0.9127  0.0000
```

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  SINGLE 1734 : 62100 BIG LAK8 - 62150 E BL TP8 CKT: 1          0.9137  0.9141 -0.0004
  SINGLE 1797 : 62150 E BL TP8 - 62965 ELKRWS18 CKT: 1          0.9138  0.9142 -0.0004
  SINGLE 3047 : 60703 WATKINS8 - 62620 WATKINS8 CKT: 1          0.9162  0.9161  0.0001
  SINGLE 3055 : 60717 WAKEFLD8 - 62846 FRHV TP8 CKT: 1          0.9176  0.9176  0.0000
  SINGLE 1769 : 62125 BECKER 8 - 62939 SILVERC8 CKT: 1          0.9186  0.9189 -0.0003
  SINGLE 1407 : 60703 WATKINS8 - 60704 KIMBALL8 CKT: 1          0.9190  0.9189  0.0001
  SINGLE 3051 : 60705 LUXBGTP8 - 62846 FRHV TP8 CKT: 1          0.9194  0.9194  0.0000
  SINGLE 2008 : 62934 HOWARDL8 - 62943 VICTOR 8 CKT: 1          0.9198   .....   *NEW*

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 657) 60737 COKATO 8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 3076 : 60739 DASSEL 8 - 62617 BIGSWAN8 CKT: 1          0.8490  0.8491 -0.0001
  SINGLE 1424 : 60739 DASSEL 8 - 60773 COKATOT8 CKT: 1          0.9150  0.9150  0.0000

==============================================================================================
 658) 60738 WNSTDTP8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 3076 : 60739 DASSEL 8 - 62617 BIGSWAN8 CKT: 1          0.8373  0.8374 -0.0001
  SINGLE 1424 : 60739 DASSEL 8 - 60773 COKATOT8 CKT: 1          0.9045  0.9046 -0.0001

==============================================================================================
 659) 60773 COKATOT8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 3076 : 60739 DASSEL 8 - 62617 BIGSWAN8 CKT: 1          0.8485  0.8486 -0.0001
  SINGLE 1424 : 60739 DASSEL 8 - 60773 COKATOT8 CKT: 1          0.9147  0.9148 -0.0001

==============================================================================================
 660) 60932 WINSTED8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 3076 : 60739 DASSEL 8 - 62617 BIGSWAN8 CKT: 1          0.8264  0.8265 -0.0001
  SINGLE 1424 : 60739 DASSEL 8 - 60773 COKATOT8 CKT: 1          0.8945  0.8946 -0.0001

==============================================================================================
 661) 60933 MILRBND8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 3076 : 60739 DASSEL 8 - 62617 BIGSWAN8 CKT: 1          0.8264  0.8265 -0.0001
  SINGLE 1424 : 60739 DASSEL 8 - 60773 COKATOT8 CKT: 1          0.8945  0.8946 -0.0001

==============================================================================================
 662) 60743 BELGRAD8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1427 : 60743 BELGRAD8 - 60760 PAYNES 8 CKT: 1          0.7612  0.7576  0.0036
  SINGLE 1430 : 60748 WESTPRT8 - 60749 DGLAS C8 CKT: 1          0.8043  0.8040  0.0003
  SINGLE 1429 : 60747 VILLARD8 - 60748 WESTPRT8 CKT: 1          0.8654  0.8659 -0.0005
  SINGLE 3089 : 60747 VILLARD8 - 62756 LEVEN  8 CKT: 1          0.8729  0.8716  0.0013
  SINGLE 3087 : 60746 GLENWD 8 - 62756 LEVEN  8 CKT: 1          0.8968  0.8971 -0.0003

==============================================================================================
 663) 60744 BROOTEN8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1430 : 60748 WESTPRT8 - 60749 DGLAS C8 CKT: 1          0.7239  0.7237  0.0002
  SINGLE 1427 : 60743 BELGRAD8 - 60760 PAYNES 8 CKT: 1          0.7693  0.7659  0.0034
  SINGLE 1429 : 60747 VILLARD8 - 60748 WESTPRT8 CKT: 1          0.8098  0.8107 -0.0009
  SINGLE 3089 : 60747 VILLARD8 - 62756 LEVEN  8 CKT: 1          0.8210  0.8194  0.0016
  SINGLE 3083 : 60743 BELGRAD8 - 62827 CROW LK8 CKT: 1          0.8285  0.8279  0.0006
  SINGLE 3087 : 60746 GLENWD 8 - 62756 LEVEN  8 CKT: 1          0.8566  0.8570 -0.0004
  SINGLE 3085 : 60744 BROOTEN8 - 62827 CROW LK8 CKT: 1          0.8776  0.8769  0.0007

==============================================================================================
 664) 60745 SEDAN  8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1430 : 60748 WESTPRT8 - 60749 DGLAS C8 CKT: 1          0.6597  0.6596  0.0001
```

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  SINGLE 1429 : 60747 VILLARD8 - 60748 WESTPRT8 CKT: 1          0.7674  0.7689 -0.0015
  SINGLE 3089 : 60747 VILLARD8 - 62756 LEVEN  8 CKT: 1          0.7822  0.7803  0.0019
  SINGLE 1427 : 60743 BELGRAD8 - 60760 PAYNES 8 CKT: 1          0.7914  0.7886  0.0028
  SINGLE 3087 : 60746 GLENWD 8 - 62756 LEVEN  8 CKT: 1          0.8284  0.8288 -0.0004
  SINGLE 3083 : 60743 BELGRAD8 - 62827 CROW LK8 CKT: 1          0.8440  0.8434  0.0006
  SINGLE 3085 : 60744 BROOTEN8 - 62827 CROW LK8 CKT: 1          0.8881  0.8874  0.0007
  SINGLE 2101 : 63219 GRANTCO7 - 63220 ELBOWLK7 CKT: 1          0.9092  0.9096 -0.0004
  SINGLE 2106 : 63222 ALEXAND7 - 67452 ALEXSS   CKT: 1          0.9192   .....   *NEW*

==============================================================================================
 665) 60746 GLENWD 8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1430 : 60748 WESTPRT8 - 60749 DGLAS C8 CKT: 1          0.5995  0.5994  0.0001
  SINGLE 1429 : 60747 VILLARD8 - 60748 WESTPRT8 CKT: 1          0.7279  0.7299 -0.0020
  SINGLE 3089 : 60747 VILLARD8 - 62756 LEVEN  8 CKT: 1          0.7462  0.7440  0.0022
  SINGLE 3087 : 60746 GLENWD 8 - 62756 LEVEN  8 CKT: 1          0.8027  0.8032 -0.0005
  SINGLE 1427 : 60743 BELGRAD8 - 60760 PAYNES 8 CKT: 1          0.8204  0.8182  0.0022
  SINGLE 3083 : 60743 BELGRAD8 - 62827 CROW LK8 CKT: 1          0.8648  0.8643  0.0005
  SINGLE 2101 : 63219 GRANTCO7 - 63220 ELBOWLK7 CKT: 1          0.9006  0.9010 -0.0004
  SINGLE 3085 : 60744 BROOTEN8 - 62827 CROW LK8 CKT: 1          0.9022  0.9016  0.0006
  SINGLE 2106 : 63222 ALEXAND7 - 67452 ALEXSS   CKT: 1          0.9144  0.9153 -0.0009
  750         : ** MULTIPLE CONTINGENCY **                      0.9150  0.9139  0.0011
              : 62817 LSAUKTP7 - 60144 DGLASCO7 CKT: 1
              : 60144 DGLASCO7 - 60749 DGLAS C8 CKT: 1
  SINGLE 2104 : 63220 ELBOWLK7 - 63221 BRANDN 7 CKT: 1          0.9180  0.9180  0.0000

==============================================================================================
 666) 60747 VILLARD8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1430 : 60748 WESTPRT8 - 60749 DGLAS C8 CKT: 1          0.5867  0.5866  0.0001
  SINGLE 1429 : 60747 VILLARD8 - 60748 WESTPRT8 CKT: 1          0.7245  0.7265 -0.0020
  SINGLE 1427 : 60743 BELGRAD8 - 60760 PAYNES 8 CKT: 1          0.8604  0.8590  0.0014
  SINGLE 3083 : 60743 BELGRAD8 - 62827 CROW LK8 CKT: 1          0.8960  0.8956  0.0004
  SINGLE 2101 : 63219 GRANTCO7 - 63220 ELBOWLK7 CKT: 1          0.9118  0.9122 -0.0004

==============================================================================================
 667) 60748 WESTPRT8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1430 : 60748 WESTPRT8 - 60749 DGLAS C8 CKT: 1          0.5817  0.5815  0.0002
  SINGLE 1427 : 60743 BELGRAD8 - 60760 PAYNES 8 CKT: 1          0.8873  0.8864  0.0009
  SINGLE 3083 : 60743 BELGRAD8 - 62827 CROW LK8 CKT: 1          0.9175  0.9171  0.0004
  SINGLE 2101 : 63219 GRANTCO7 - 63220 ELBOWLK7 CKT: 1          0.9198   .....   *NEW*

==============================================================================================
 668) 60767 WLMSTAP8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1430 : 60748 WESTPRT8 - 60749 DGLAS C8 CKT: 1          0.6965  0.6963  0.0002
  SINGLE 1427 : 60743 BELGRAD8 - 60760 PAYNES 8 CKT: 1          0.7769  0.7737  0.0032
  SINGLE 1429 : 60747 VILLARD8 - 60748 WESTPRT8 CKT: 1          0.7917  0.7928 -0.0011
  SINGLE 3089 : 60747 VILLARD8 - 62756 LEVEN  8 CKT: 1          0.8044  0.8026  0.0018
  SINGLE 3083 : 60743 BELGRAD8 - 62827 CROW LK8 CKT: 1          0.8338  0.8332  0.0006
  SINGLE 3087 : 60746 GLENWD 8 - 62756 LEVEN  8 CKT: 1          0.8445  0.8449 -0.0004
  SINGLE 3085 : 60744 BROOTEN8 - 62827 CROW LK8 CKT: 1          0.8812  0.8805  0.0007
  SINGLE 2101 : 63219 GRANTCO7 - 63220 ELBOWLK7 CKT: 1          0.9153  0.9158 -0.0005

==============================================================================================
 669) 60750 OSAKIS 8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1431 : 60749 DGLAS C8 - 60750 OSAKIS 8 CKT: 1          0.8206  0.8196  0.0010

==============================================================================================
 670) 60768 ELRSATP8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
```

```
  SINGLE 3099 : 60760 PAYNES 8 - 62824 ZION TP8 CKT: 1          0.8851  0.8855 -0.0004
  SINGLE 3106 : 60768 ELRSATP8 - 62824 ZION TP8 CKT: 1          0.8916  0.8928 -0.0012
  SINGLE 1431 : 60749 DGLAS C8 - 60750 OSAKIS 8 CKT: 1          0.9043  0.9039  0.0004
  SINGLE 3091 : 60750 OSAKIS 8 - 62820 W UNION8 CKT: 1          0.9133  0.9131  0.0002

==============================================================================================
 671) 60787 NOFIELD8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1459 : 60787 NOFIELD8 - 60801 CNFLSTR8 CKT: 1          0.9196  0.9197 -0.0001

==============================================================================================
 672) 60788 VALLYTP8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1461 : 60789 CIRCLTP8 - 60790 FAIRPRK8 CKT: 1          0.9123  0.9124 -0.0001

==============================================================================================
 673) 60789 CIRCLTP8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1461 : 60789 CIRCLTP8 - 60790 FAIRPRK8 CKT: 1          0.9116  0.9117 -0.0001

==============================================================================================
 674) 61031 BAY CIT8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1484 : 60823 REDWING8 - 61031 BAY CIT8 CKT: 1          0.9190  0.9190  0.0000

==============================================================================================
 675) 60825 WABASHA8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 3233 : 60982 ALMA   8 - 68874 ALMA 8   CKT: 1          0.7984  0.7986 -0.0002
  SINGLE 1587 : 60982 ALMA   8 - 60983 NELSON 8 CKT: 1          0.8256  0.8257 -0.0001
  SINGLE 1486 : 60825 WABASHA8 - 60983 NELSON 8 CKT: 1          0.9072  0.9073 -0.0001

==============================================================================================
 676) 61974 ST PETER                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 3024 : 60650 WILMART8 - 62336 JHNSNTP8 CKT: 1          0.8971  0.8969  0.0002
  SINGLE 1488 : 60826 TRAVRSE8 - 61974 ST PETER CKT: 1          0.9172  0.9172  0.0000

==============================================================================================
 677) 60954 TMAC 2 8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1558 : 60949 MONROCO8 - 60955 SPARTA28 CKT: 1          0.8061  0.8063 -0.0002

==============================================================================================
 678) 60955 SPARTA28                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1558 : 60949 MONROCO8 - 60955 SPARTA28 CKT: 1          0.7816  0.7818 -0.0002

==============================================================================================
 679) 60956 MCCOY  8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1558 : 60949 MONROCO8 - 60955 SPARTA28 CKT: 1          0.7932  0.7934 -0.0002

==============================================================================================
 680) 60957 CATARAC8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1558 : 60949 MONROCO8 - 60955 SPARTA28 CKT: 1          0.8377  0.8378 -0.0001

==============================================================================================
 681) 60959 T MEL1 8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1558 : 60949 MONROCO8 - 60955 SPARTA28 CKT: 1          0.9038  0.9040 -0.0002
```

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==========================================================================================
 682) 60960 T MEL2 8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1558 : 60949 MONROCO8 - 60955 SPARTA28 CKT: 1               0.9055  0.9057 -0.0002

==========================================================================================
 683) 60961 MEL    8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1558 : 60949 MONROCO8 - 60955 SPARTA28 CKT: 1               0.9051  0.9053 -0.0002

==========================================================================================
 684) 60983 NELSON 8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 3233 : 60982 ALMA   8 - 68874 ALMA 8   CKT: 1               0.7968  0.7969 -0.0001
  SINGLE 1587 : 60982 ALMA   8 - 60983 NELSON 8 CKT: 1               0.8244  0.8245 -0.0001

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 685) 60984 PEPIN  8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 3233 : 60982 ALMA   8 - 68874 ALMA 8   CKT: 1               0.7920  0.7921 -0.0001
  SINGLE 1587 : 60982 ALMA   8 - 60983 NELSON 8 CKT: 1               0.8198  0.8199 -0.0001

==========================================================================================
 686) 60992 GIL TAP8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 3233 : 60982 ALMA   8 - 68874 ALMA 8   CKT: 1               0.7942  0.7943 -0.0001
  SINGLE 1587 : 60982 ALMA   8 - 60983 NELSON 8 CKT: 1               0.8219  0.8220 -0.0001

==========================================================================================
 687) 61960 LAKECITY                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 3233 : 60982 ALMA   8 - 68874 ALMA 8   CKT: 1               0.8505  0.8506 -0.0001
  SINGLE 1587 : 60982 ALMA   8 - 60983 NELSON 8 CKT: 1               0.8680  0.8681 -0.0001

==========================================================================================
 688) 61020 T COLFA8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1631 : 61022 HAYRIVE8 - 61035 CEDARFA8 CKT: 1               0.9044  0.9046 -0.0002

==========================================================================================
 689) 61022 HAYRIVE8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1631 : 61022 HAYRIVE8 - 61035 CEDARFA8 CKT: 1               0.9028  0.9030 -0.0002

==========================================================================================
 690) 61082 WHEELER8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1631 : 61022 HAYRIVE8 - 61035 CEDARFA8 CKT: 1               0.9127  0.9129 -0.0002

==========================================================================================
 691) 61914 MORA                                                    PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1               0.8244  0.8247 -0.0003
  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1               0.8562  0.8564 -0.0002
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1               0.8708  0.8714 -0.0006
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1               0.8991  0.8997 -0.0006
  SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1               0.8994  0.8988  0.0006
  SINGLE 1789 : 62141 ISANTTP8 - 62143 ATHNSSW8 CKT: 1               0.9056  0.9057 -0.0001
  SINGLE 1966 : 62642 ONAMIA 8 - 62652 RUMRVTP8 CKT: 1               0.9106  0.9103  0.0003
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1               0.9110  0.9109  0.0001
  SINGLE 1826 : 62275 PINECTY8 - 62285 RUSH SW8 CKT: 1               0.9126  0.9128 -0.0002
  SINGLE 1824 : 62274 RUSHCYD8 - 62285 RUSH SW8 CKT: 1               0.9132  0.9133 -0.0001
  SINGLE 1834 : 62280 OGILVIE8 - 62301 MILACA 8 CKT: 1               0.9170  0.9166  0.0004
```

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==========================================================================================
 692) 61920 PRINPLNT                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1767 : 62124 ZIMERMN8 - 62149 N ER TP8 CKT: 1              0.8223  0.8220  0.0003
  SINGLE 1796 : 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1              0.8228  0.8225  0.0003
  SINGLE 1779 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1              0.8231  0.8228  0.0003
  SINGLE 1823 : 62273 MILACAD8 - 62301 MILACA 8 CKT: 1              0.8320  0.8320  0.0000
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1              0.8960  0.8965 -0.0005
  SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1              0.8963  0.8956  0.0007
  SINGLE 1819 : 62271 LONGSDG8 - 62273 MILACAD8 CKT: 1              0.9117  0.9116  0.0001

==========================================================================================
 693) 61922 PRINCTAP                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1767 : 62124 ZIMERMN8 - 62149 N ER TP8 CKT: 1              0.8217  0.8214  0.0003
  SINGLE 1796 : 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1              0.8223  0.8219  0.0004
  SINGLE 1779 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1              0.8225  0.8222  0.0003
  SINGLE 1823 : 62273 MILACAD8 - 62301 MILACA 8 CKT: 1              0.8315  0.8314  0.0001
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1              0.8955  0.8960 -0.0005
  SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1              0.8958  0.8951  0.0007
  SINGLE 1819 : 62271 LONGSDG8 - 62273 MILACAD8 CKT: 1              0.9112  0.9111  0.0001

==========================================================================================
 694) 61924 PRINCETN                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1767 : 62124 ZIMERMN8 - 62149 N ER TP8 CKT: 1              0.8219  0.8216  0.0003
  SINGLE 1796 : 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1              0.8225  0.8222  0.0003
  SINGLE 1779 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1              0.8227  0.8224  0.0003
  SINGLE 1823 : 62273 MILACAD8 - 62301 MILACA 8 CKT: 1              0.8317  0.8316  0.0001
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1              0.8957  0.8962 -0.0005
  SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1              0.8960  0.8953  0.0007
  SINGLE 1819 : 62271 LONGSDG8 - 62273 MILACAD8 CKT: 1              0.9114  0.9113  0.0001

==========================================================================================
 695) 62099 BALDWIN8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1767 : 62124 ZIMERMN8 - 62149 N ER TP8 CKT: 1              0.8089  0.8085  0.0004
  SINGLE 1796 : 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1              0.8095  0.8091  0.0004
  SINGLE 1779 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1              0.8098  0.8094  0.0004
  SINGLE 1823 : 62273 MILACAD8 - 62301 MILACA 8 CKT: 1              0.8412  0.8411  0.0001
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1              0.8992  0.8997 -0.0005
  SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1              0.8995  0.8988  0.0007
  SINGLE 1819 : 62271 LONGSDG8 - 62273 MILACAD8 CKT: 1              0.9139  0.9138  0.0001

==========================================================================================
 696) 62124 ZIMERMN8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1767 : 62124 ZIMERMN8 - 62149 N ER TP8 CKT: 1              0.7910  0.7905  0.0005
  SINGLE 1796 : 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1              0.7916  0.7912  0.0004
  SINGLE 1779 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1              0.7920  0.7915  0.0005
  SINGLE 1823 : 62273 MILACAD8 - 62301 MILACA 8 CKT: 1              0.8758  0.8757  0.0001
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1              0.9187  0.9191 -0.0004
  SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1              0.9189  0.9184  0.0005

==========================================================================================
 697) 62271 LONGSDG8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1823 : 62273 MILACAD8 - 62301 MILACA 8 CKT: 1              0.8056  0.8055  0.0001
  SINGLE 1767 : 62124 ZIMERMN8 - 62149 N ER TP8 CKT: 1              0.8661  0.8660  0.0001
  SINGLE 1796 : 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1              0.8665  0.8664  0.0001
  SINGLE 1779 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1              0.8667  0.8665  0.0002
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1              0.8871  0.8877 -0.0006
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  SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1          0.8875  0.8866  0.0009
  SINGLE 1819 : 62271 LONGSDG8 - 62273 MILACAD8 CKT: 1          0.9056  0.9056  0.0000

==============================================================================================
 698) 62273 MILACAD8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1823 : 62273 MILACAD8 - 62301 MILACA 8 CKT: 1          0.7792  0.7791  0.0001
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1          0.8834  0.8840 -0.0006
  SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1          0.8838  0.8828  0.0010

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 699) 62280 OGILVIE8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1          0.8713  0.8715 -0.0002
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1          0.8826  0.8832 -0.0006
  SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1          0.8829  0.8822  0.0007
  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1          0.8934  0.8936 -0.0002
  SINGLE 1966 : 62642 ONAMIA 8 - 62652 RUMRVTP8 CKT: 1          0.8979  0.8975  0.0004
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.8980  0.8979  0.0001
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1          0.9024  0.9029 -0.0005
  SINGLE 1834 : 62280 OGILVIE8 - 62301 MILACA 8 CKT: 1          0.9052  0.9047  0.0005

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 700) 62283 DALBO  8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1          0.7530  0.7533 -0.0003
  SINGLE 1789 : 62141 ISANTTP8 - 62143 ATHNSSW8 CKT: 1          0.8258  0.8257  0.0001
  SINGLE 1849 : 62294 RUSH TP8 - 63022 CAMBRDG8 CKT: 1          0.8663  0.8669 -0.0006
  SINGLE 1846 : 62293 RUSH CY8 - 62294 RUSH TP8 CKT: 1          0.8672  0.8678 -0.0006
  SINGLE 1741 : 62104 COOPERC8 - 62144 SDRVLSW8 CKT: 1          0.8770  0.8772 -0.0002
  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1          0.8774  0.8776 -0.0002
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1          0.8867  0.8872 -0.0005
  SINGLE 1770 : 62126 PIPELIN8 - 62134 ELKR14S8 CKT: 1          0.8957  0.8961 -0.0004
  SINGLE 1740 : 62104 COOPERC8 - 62143 ATHNSSW8 CKT: 1          0.9025  0.9031 -0.0006
  SINGLE 1771 : 62126 PIPELIN8 - 62135 STFRNCS8 CKT: 1          0.9027  0.9032 -0.0005
  765         : ** MULTIPLE CONTINGENCY **                      0.9057  0.9059 -0.0002
              : 63048 RUSH CY4 - 60237 REDROCK4 CKT: 1
              : 60236 REDROCK3 - 60237 REDROCK4 CKT: 1
              : 60361 ROCKCR 4 - 63048 RUSH CY4 CKT: 1
  SINGLE 1746 : 62108 HUGO   8 - 62128 BLAINE 8 CKT: 1          0.9066  0.9082 -0.0016
  SINGLE 1790 : 62141 ISANTTP8 - 62296 INDSTTP8 CKT: 1          0.9101  0.9099  0.0002
  SINGLE 1832 : 62279 BRAHAM 8 - 62291 GRASTON8 CKT: 1          0.9112  0.9112  0.0000
  SINGLE 1826 : 62275 PINECTY8 - 62285 RUSH SW8 CKT: 1          0.9112  0.9113 -0.0001
  SINGLE 1824 : 62274 RUSHCYD8 - 62285 RUSH SW8 CKT: 1          0.9116  0.9117 -0.0001
  SINGLE 1744 : 62106 FOREST 8 - 62108 HUGO   8 CKT: 1          0.9122  0.9126 -0.0004
  SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1          0.9166  0.9165  0.0001
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1          0.9167  0.9171 -0.0004
  SINGLE 1966 : 62642 ONAMIA 8 - 62652 RUMRVTP8 CKT: 1          0.9196  0.9195  0.0001

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 701) 62284 DALBOTP8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1          0.7539  0.7542 -0.0003
  SINGLE 1789 : 62141 ISANTTP8 - 62143 ATHNSSW8 CKT: 1          0.8267  0.8266  0.0001
  SINGLE 1849 : 62294 RUSH TP8 - 63022 CAMBRDG8 CKT: 1          0.8671  0.8678 -0.0007
  SINGLE 1846 : 62293 RUSH CY8 - 62294 RUSH TP8 CKT: 1          0.8680  0.8687 -0.0007
  SINGLE 1741 : 62104 COOPERC8 - 62144 SDRVLSW8 CKT: 1          0.8778  0.8780 -0.0002
  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1          0.8782  0.8784 -0.0002
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1          0.8875  0.8880 -0.0005
  SINGLE 1770 : 62126 PIPELIN8 - 62134 ELKR14S8 CKT: 1          0.8965  0.8969 -0.0004
  SINGLE 1740 : 62104 COOPERC8 - 62143 ATHNSSW8 CKT: 1          0.9032  0.9039 -0.0007
  SINGLE 1771 : 62126 PIPELIN8 - 62135 STFRNCS8 CKT: 1          0.9035  0.9039 -0.0004
  765         : ** MULTIPLE CONTINGENCY **                      0.9065  0.9066 -0.0001
```

```
              : 63048 RUSH CY4 - 60237 REDROCK4 CKT: 1
              : 60236 REDROCK3 - 60237 REDROCK4 CKT: 1
              : 60361 ROCKCR 4 - 63048 RUSH CY4 CKT: 1
  SINGLE 1746 : 62108 HUGO   8 - 62128 BLAINE 8 CKT: 1          0.9074  0.9090 -0.0016
  SINGLE 1790 : 62141 ISANTTP8 - 62296 INDSTTP8 CKT: 1          0.9108  0.9106  0.0002
  SINGLE 1826 : 62275 PINECTY8 - 62285 RUSH SW8 CKT: 1          0.9119  0.9121 -0.0002
  SINGLE 1832 : 62279 BRAHAM 8 - 62291 GRASTON8 CKT: 1          0.9120  0.9120  0.0000
  SINGLE 1824 : 62274 RUSHCYD8 - 62285 RUSH SW8 CKT: 1          0.9123  0.9125 -0.0002
  SINGLE 1744 : 62106 FOREST 8 - 62108 HUGO   8 CKT: 1          0.9129  0.9134 -0.0005
  SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1          0.9174  0.9173  0.0001
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1          0.9175  0.9179 -0.0004

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 702) 62292 PRINCTN8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1823 : 62273 MILACAD8 - 62301 MILACA 8 CKT: 1          0.8115  0.8114  0.0001
  SINGLE 1767 : 62124 ZIMERMN8 - 62149 N ER TP8 CKT: 1          0.8556  0.8554  0.0002
  SINGLE 1796 : 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1          0.8560  0.8558  0.0002
  SINGLE 1779 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1          0.8562  0.8560  0.0002
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1          0.8891  0.8897 -0.0006
  SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1          0.8894  0.8886  0.0008
  SINGLE 1819 : 62271 LONGSDG8 - 62273 MILACAD8 CKT: 1          0.9069  0.9069  0.0000

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 703) 62301 MILACA 8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1          0.8834  0.8840 -0.0006
  SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1          0.8838  0.8828  0.0010

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 704) 62303 MORA   8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1          0.8232  0.8235 -0.0003
  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1          0.8551  0.8553 -0.0002
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1          0.8697  0.8702 -0.0005
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1          0.8980  0.8986 -0.0006
  SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1          0.8983  0.8977  0.0006
  SINGLE 1789 : 62141 ISANTTP8 - 62143 ATHNSSW8 CKT: 1          0.9045  0.9046 -0.0001
  SINGLE 1966 : 62642 ONAMIA 8 - 62652 RUMRVTP8 CKT: 1          0.9095  0.9092  0.0003
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.9099  0.9099  0.0000
  SINGLE 1826 : 62275 PINECTY8 - 62285 RUSH SW8 CKT: 1          0.9115  0.9117 -0.0002
  SINGLE 1824 : 62274 RUSHCYD8 - 62285 RUSH SW8 CKT: 1          0.9121  0.9123 -0.0002
  SINGLE 1834 : 62280 OGILVIE8 - 62301 MILACA 8 CKT: 1          0.9159  0.9155  0.0004

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 705) 62642 ONAMIA 8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1966 : 62642 ONAMIA 8 - 62652 RUMRVTP8 CKT: 1          0.6813  0.6807  0.0006
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.7817  0.7817  0.0000
  SINGLE 1798 : 62180 RIVTON 8 - 62190 OKLWNTP8 CKT: 1          0.8451  0.8448  0.0003
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1          0.8716  0.8724 -0.0008
  SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1          0.8721  0.8715  0.0006
  SINGLE 1811 : 62190 OKLWNTP8 - 62191 PINCTRT8 CKT: 1          0.8760  0.8760  0.0000
  SINGLE 1853 : 62301 MILACA 8 - 62652 RUMRVTP8 CKT: 1          0.8908  0.8920 -0.0012
  SINGLE 1813 : 62191 PINCTRT8 - 62651 VINLDTP8 CKT: 1          0.9066  0.9066  0.0000
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1          0.9115  0.9118 -0.0003
  SINGLE 1971 : 62650 VINELND8 - 62651 VINLDTP8 CKT: 1          0.9169  0.9166  0.0003
  SINGLE 1767 : 62124 ZIMERMN8 - 62149 N ER TP8 CKT: 1          0.9171  0.9170  0.0001
  SINGLE 1796 : 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1          0.9172  0.9172  0.0000
  SINGLE 1779 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1          0.9173  0.9173  0.0000

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 706) 62650 VINELND8                                          PSTCNT2 PSTCNT1 PU-CHNG
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-----------------------------------------------------------------------------------------------
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.6885  0.6887 -0.0002
  SINGLE 1798 : 62180 RIVTON 8 - 62190 OKLWNTP8 CKT: 1          0.7909  0.7905  0.0004
  SINGLE 1811 : 62190 OKLWNTP8 - 62191 PINCTRT8 CKT: 1          0.8388  0.8388  0.0000
  SINGLE 1813 : 62191 PINCTRT8 - 62651 VINLDTP8 CKT: 1          0.8869  0.8869  0.0000
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1          0.9017  0.9027 -0.0010
  SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1          0.9022  0.9021  0.0001
  SINGLE 1971 : 62650 VINELND8 - 62651 VINLDTP8 CKT: 1          0.9029  0.9026  0.0003
  SINGLE 1853 : 62301 MILACA 8 - 62652 RUMRVTP8 CKT: 1          0.9150  0.9165 -0.0015

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 707) 62652 RUMRVTP8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.7826  0.7826  0.0000
  SINGLE 1798 : 62180 RIVTON 8 - 62190 OKLWNTP8 CKT: 1          0.8466  0.8463  0.0003
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1          0.8742  0.8751 -0.0009
  SINGLE 1684 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1          0.8747  0.8741  0.0006
  SINGLE 1811 : 62190 OKLWNTP8 - 62191 PINCTRT8 CKT: 1          0.8777  0.8777  0.0000
  SINGLE 1853 : 62301 MILACA 8 - 62652 RUMRVTP8 CKT: 1          0.8926  0.8938 -0.0012
  SINGLE 1813 : 62191 PINCTRT8 - 62651 VINLDTP8 CKT: 1          0.9085  0.9085  0.0000
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1          0.9152  0.9154 -0.0002
  SINGLE 1971 : 62650 VINELND8 - 62651 VINLDTP8 CKT: 1          0.9189  0.9186  0.0003
  SINGLE 1767 : 62124 ZIMERMN8 - 62149 N ER TP8 CKT: 1          0.9195  0.9194  0.0001
  SINGLE 1796 : 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1          0.9196  0.9196  0.0000
  SINGLE 1779 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1          0.9197  0.9197  0.0000

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 708) 62136 REMMELE8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.5538  0.5549 -0.0011
  SINGLE 2023 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1          0.7947  0.7959 -0.0012
  SINGLE 1734 : 62100 BIG LAK8 - 62150 E BL TP8 CKT: 1          0.8738  0.8741 -0.0003
  SINGLE 1797 : 62150 E BL TP8 - 62965 ELKRWS18 CKT: 1          0.8739  0.8743 -0.0004
  SINGLE 1733 : 62100 BIG LAK8 - 62142 REMMLTP8 CKT: 1          0.9143  0.9146 -0.0003

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 709) 62142 REMMLTP8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.5548  0.5559 -0.0011
  SINGLE 2023 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1          0.7955  0.7967 -0.0012
  SINGLE 1734 : 62100 BIG LAK8 - 62150 E BL TP8 CKT: 1          0.8744  0.8748 -0.0004
  SINGLE 1797 : 62150 E BL TP8 - 62965 ELKRWS18 CKT: 1          0.8746  0.8750 -0.0004
  SINGLE 1733 : 62100 BIG LAK8 - 62142 REMMLTP8 CKT: 1          0.9149  0.9152 -0.0003

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 710) 62100 BIG LAK8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.5304  0.5315 -0.0011
  SINGLE 2023 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1          0.7856  0.7869 -0.0013
  SINGLE 1734 : 62100 BIG LAK8 - 62150 E BL TP8 CKT: 1          0.8710  0.8713 -0.0003
  SINGLE 1797 : 62150 E BL TP8 - 62965 ELKRWS18 CKT: 1          0.8712  0.8715 -0.0003

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 711) 62119 THOMPLK8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.6385  0.6393 -0.0008
  SINGLE 2023 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1          0.8320  0.8330 -0.0010
  SINGLE 1734 : 62100 BIG LAK8 - 62150 E BL TP8 CKT: 1          0.8920  0.8923 -0.0003
  SINGLE 1797 : 62150 E BL TP8 - 62965 ELKRWS18 CKT: 1          0.8921  0.8925 -0.0004
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1          0.8983  0.8984 -0.0001
  680         : ** MULTIPLE CONTINGENCY **                      0.9002  0.8979  0.0023
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
```

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  SINGLE 1787 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1          0.9089  0.9083  0.0006
  SINGLE 1783 : 62138 BRGGLKS8 - 62139 CABLETP8 CKT: 1          0.9195   .....  *ELIM*

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 712) 62125 BECKER 8                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.7244  0.7250 -0.0006
  SINGLE 2023 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1          0.8723  0.8731 -0.0008
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1          0.8794  0.8795 -0.0001
  680         : ** MULTIPLE CONTINGENCY **                      0.8810  0.8789  0.0021
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
  SINGLE 1787 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1          0.8930  0.8923  0.0007
  SINGLE 1785 : 62138 BRGGLKS8 - 62139 CABLETP8 CKT: 1          0.9097  0.9072  0.0025
  SINGLE 1797 : 62150 E BL TP8 - 62965 ELKRWS18 CKT: 1          0.9148  0.9152 -0.0004
  SINGLE 1734 : 62100 BIG LAK8 - 62150 E BL TP8 CKT: 1          0.9148  0.9151 -0.0003
  SINGLE 1765 : 62122 WESTEND8 - 62138 BRGGLKS8 CKT: 1          0.9170  0.9169  0.0001

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 713) 62137 BCKRNSP8                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.7008  0.7015 -0.0007
  SINGLE 2023 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1          0.8613  0.8622 -0.0009
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1          0.8844  0.8845 -0.0001
  680         : ** MULTIPLE CONTINGENCY **                      0.8861  0.8840  0.0021
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
  SINGLE 1787 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1          0.8972  0.8965  0.0007
  SINGLE 1734 : 62100 BIG LAK8 - 62150 E BL TP8 CKT: 1          0.9086  0.9089 -0.0003
  SINGLE 1797 : 62150 E BL TP8 - 62965 ELKRWS18 CKT: 1          0.9087  0.9090 -0.0003
  SINGLE 1785 : 62138 BRGGLKS8 - 62139 CABLETP8 CKT: 1          0.9131  0.9105  0.0026
  SINGLE 1765 : 62122 WESTEND8 - 62138 BRGGLKS8 CKT: 1          0.9196  0.9195  0.0001

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 714) 62939 SILVERC8                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.7955  0.7960 -0.0005
  SINGLE 2023 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1          0.8890  0.8896 -0.0006
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1          0.8924  0.8925 -0.0001
  680         : ** MULTIPLE CONTINGENCY **                      0.8934  0.8918  0.0016
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
  SINGLE 2013 : 62938 OTSEGO 8 - 63020 ELK RIV8 CKT: 1          0.8978  0.8979 -0.0001
  SINGLE 1787 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1          0.9014  0.9006  0.0008
  SINGLE 1785 : 62138 BRGGLKS8 - 62139 CABLETP8 CKT: 1          0.9125  0.9105  0.0020
  SINGLE 2000 : 62929 ALBERTV8 - 62938 OTSEGO 8 CKT: 1          0.9139  0.9144 -0.0005
  SINGLE 1765 : 62122 WESTEND8 - 62138 BRGGLKS8 CKT: 1          0.9173  0.9172  0.0001
  SINGLE 1797 : 62150 E BL TP8 - 62965 ELKRWS18 CKT: 1          0.9174  0.9178 -0.0004
  SINGLE 1734 : 62100 BIG LAK8 - 62150 E BL TP8 CKT: 1          0.9174  0.9178 -0.0004

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 715) 62109 ISANTI 8                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1789 : 62141 ISANTTP8 - 62143 ATHNSSW8 CKT: 1          0.8018  0.8016  0.0002
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1          0.8110  0.8113 -0.0003
  SINGLE 1741 : 62104 COOPERC8 - 62144 SDRVLSW8 CKT: 1          0.8604  0.8606 -0.0002
  SINGLE 1770 : 62126 PIPELIN8 - 62134 ELKR14S8 CKT: 1          0.8848  0.8851 -0.0003
  SINGLE 1849 : 62294 RUSH TP8 - 63022 CAMBRDG8 CKT: 1          0.8894  0.8900 -0.0006
  SINGLE 1846 : 62293 RUSH CY8 - 62294 RUSH TP8 CKT: 1          0.8900  0.8906 -0.0006
  SINGLE 1740 : 62104 COOPERC8 - 62143 ATHNSSW8 CKT: 1          0.8931  0.8938 -0.0007
  SINGLE 1771 : 62126 PIPELIN8 - 62135 STFRNCS8 CKT: 1          0.8937  0.8941 -0.0004
  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1          0.8978  0.8980 -0.0002
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1          0.9034  0.9038 -0.0004
```

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  SINGLE 1850 : 62296 INDSTTP8 - 63022 CAMBRDG8 CKT: 1          0.9114  0.9113  0.0001
  765         : ** MULTIPLE CONTINGENCY **                      0.9151  0.9153 -0.0002
              : 63048 RUSH CY4 - 60237 REDROCK4 CKT: 1
              : 60236 REDROCK3 - 60237 REDROCK4 CKT: 1
              : 60361 ROCKCR 4 - 63048 RUSH CY4 CKT: 1
  SINGLE 1746 : 62108 HUGO   8 - 62128 BLAINE 8 CKT: 1          0.9157  0.9169 -0.0012
  SINGLE 1832 : 62279 BRAHAM 8 - 62291 GRASTON8 CKT: 1          0.9186  0.9186  0.0000
  SINGLE 1826 : 62275 PINECTY8 - 62285 RUSH SW8 CKT: 1          0.9189  0.9191 -0.0002
  SINGLE 1744 : 62106 FOREST 8 - 62108 HUGO   8 CKT: 1          0.9190  0.9193 -0.0003
  SINGLE 1748 : 62110 JOHNSVL8 - 62132 PRKWOOD8 CKT: 1          0.9191  0.9197 -0.0006
  SINGLE 1824 : 62274 RUSHCYD8 - 62285 RUSH SW8 CKT: 1          0.9192  0.9194 -0.0002

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 716) 62135 STFRNCS8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1770 : 62126 PIPELIN8 - 62134 ELKR14S8 CKT: 1          0.8693  0.8696 -0.0003
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1          0.8803  0.8805 -0.0002
  SINGLE 1771 : 62126 PIPELIN8 - 62135 STFRNCS8 CKT: 1          0.8831  0.8835 -0.0004
  SINGLE 1741 : 62104 COOPERC8 - 62144 SDRVLSW8 CKT: 1          0.8870  0.8872 -0.0002
  SINGLE 1740 : 62104 COOPERC8 - 62143 ATHNSSW8 CKT: 1          0.9130  0.9137 -0.0007

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 717) 62141 ISANTTP8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1789 : 62141 ISANTTP8 - 62143 ATHNSSW8 CKT: 1          0.8130  0.8129  0.0001
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1          0.8222  0.8224 -0.0002
  SINGLE 1741 : 62104 COOPERC8 - 62144 SDRVLSW8 CKT: 1          0.8706  0.8708 -0.0002
  SINGLE 1770 : 62126 PIPELIN8 - 62134 ELKR14S8 CKT: 1          0.8945  0.8949 -0.0004
  SINGLE 1849 : 62294 RUSH TP8 - 63022 CAMBRDG8 CKT: 1          0.8991  0.8996 -0.0005
  SINGLE 1846 : 62293 RUSH CY8 - 62294 RUSH TP8 CKT: 1          0.8997  0.9002 -0.0005
  SINGLE 1740 : 62104 COOPERC8 - 62143 ATHNSSW8 CKT: 1          0.9027  0.9034 -0.0007
  SINGLE 1771 : 62126 PIPELIN8 - 62135 STFRNCS8 CKT: 1          0.9033  0.9036 -0.0003
  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1          0.9074  0.9075 -0.0001
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1          0.9128  0.9132 -0.0004

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 718) 62143 ATHNSSW8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1          0.8572  0.8574 -0.0002
  SINGLE 1741 : 62104 COOPERC8 - 62144 SDRVLSW8 CKT: 1          0.8722  0.8724 -0.0002
  SINGLE 1770 : 62126 PIPELIN8 - 62134 ELKR14S8 CKT: 1          0.8979  0.8983 -0.0004
  SINGLE 1740 : 62104 COOPERC8 - 62143 ATHNSSW8 CKT: 1          0.9067  0.9073 -0.0006
  SINGLE 1771 : 62126 PIPELIN8 - 62135 STFRNCS8 CKT: 1          0.9073  0.9077 -0.0004
  SINGLE 1849 : 62294 RUSH TP8 - 63022 CAMBRDG8 CKT: 1          0.9167  0.9172 -0.0005
  SINGLE 1846 : 62293 RUSH CY8 - 62294 RUSH TP8 CKT: 1          0.9172  0.9177 -0.0005

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 719) 62270 INDSTRL8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1          0.7739  0.7742 -0.0003
  SINGLE 1789 : 62141 ISANTTP8 - 62143 ATHNSSW8 CKT: 1          0.8236  0.8235  0.0001
  SINGLE 1741 : 62104 COOPERC8 - 62144 SDRVLSW8 CKT: 1          0.8769  0.8772 -0.0003
  SINGLE 1849 : 62294 RUSH TP8 - 63022 CAMBRDG8 CKT: 1          0.8774  0.8781 -0.0007
  SINGLE 1846 : 62293 RUSH CY8 - 62294 RUSH TP8 CKT: 1          0.8782  0.8789 -0.0007
  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1          0.8878  0.8880 -0.0002
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1          0.8960  0.8965 -0.0005
  SINGLE 1770 : 62126 PIPELIN8 - 62134 ELKR14S8 CKT: 1          0.8972  0.8976 -0.0004
  SINGLE 1740 : 62104 COOPERC8 - 62143 ATHNSSW8 CKT: 1          0.9044  0.9051 -0.0007
  SINGLE 1771 : 62126 PIPELIN8 - 62135 STFRNCS8 CKT: 1          0.9047  0.9051 -0.0004
  SINGLE 1850 : 62296 INDSTTP8 - 63022 CAMBRDG8 CKT: 1          0.9063  0.9063  0.0000
  765         : ** MULTIPLE CONTINGENCY **                      0.9129  0.9130 -0.0001
              : 63048 RUSH CY4 - 60237 REDROCK4 CKT: 1
              : 60236 REDROCK3 - 60237 REDROCK4 CKT: 1
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             : 60361 ROCKCR 4 - 63048 RUSH CY4 CKT: 1
  SINGLE 1790 : 62141 ISANTTP8 - 62296 INDSTTP8 CKT: 1          0.9133  0.9131  0.0002
  SINGLE 1746 : 62108 HUGO   8 - 62128 BLAINE 8 CKT: 1          0.9136  0.9151 -0.0015
  SINGLE 1832 : 62279 BRAHAM 8 - 62291 GRASTON8 CKT: 1          0.9178  0.9178  0.0000
  SINGLE 1826 : 62275 PINECTY8 - 62285 RUSH SW8 CKT: 1          0.9179  0.9181 -0.0002
  SINGLE 1824 : 62274 RUSHCYD8 - 62285 RUSH SW8 CKT: 1          0.9182  0.9184 -0.0002
  SINGLE 1744 : 62106 FOREST 8 - 62108 HUGO   8 CKT: 1          0.9185  0.9189 -0.0004

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 720) 62296 INDSTTP8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1          0.7759  0.7761 -0.0002
  SINGLE 1789 : 62141 ISANTTP8 - 62143 ATHNSSW8 CKT: 1          0.8254  0.8253  0.0001
  SINGLE 1741 : 62104 COOPERC8 - 62144 SDRVLSW8 CKT: 1          0.8785  0.8788 -0.0003
  SINGLE 1849 : 62294 RUSH TP8 - 63022 CAMBRDG8 CKT: 1          0.8790  0.8797 -0.0007
  SINGLE 1846 : 62293 RUSH CY8 - 62294 RUSH TP8 CKT: 1          0.8798  0.8805 -0.0007
  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1          0.8894  0.8896 -0.0002
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1          0.8976  0.8980 -0.0004
  SINGLE 1770 : 62126 PIPELIN8 - 62134 ELKR14S8 CKT: 1          0.8987  0.8991 -0.0004
  SINGLE 1740 : 62104 COOPERC8 - 62143 ATHNSSW8 CKT: 1          0.9059  0.9066 -0.0007
  SINGLE 1771 : 62126 PIPELIN8 - 62135 STFRNCS8 CKT: 1          0.9062  0.9067 -0.0005
  SINGLE 1850 : 62296 INDSTTP8 - 63022 CAMBRDG8 CKT: 1          0.9079  0.9078  0.0001
  765         : ** MULTIPLE CONTINGENCY **                      0.9144  0.9145 -0.0001
             : 63048 RUSH CY4 - 60237 REDROCK4 CKT: 1
             : 60236 REDROCK3 - 60237 REDROCK4 CKT: 1
             : 60361 ROCKCR 4 - 63048 RUSH CY4 CKT: 1
  SINGLE 1790 : 62141 ISANTTP8 - 62296 INDSTTP8 CKT: 1          0.9148  0.9146  0.0002
  SINGLE 1746 : 62108 HUGO   8 - 62128 BLAINE 8 CKT: 1          0.9151  0.9166 -0.0015
  SINGLE 1832 : 62279 BRAHAM 8 - 62291 GRASTON8 CKT: 1          0.9193  0.9193  0.0000
  SINGLE 1826 : 62275 PINECTY8 - 62285 RUSH SW8 CKT: 1          0.9194  0.9196 -0.0002
  SINGLE 1824 : 62274 RUSHCYD8 - 62285 RUSH SW8 CKT: 1          0.9197  0.9199 -0.0002

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 721) 63022 CAMBRDG8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1          0.7650  0.7652 -0.0002
  SINGLE 1789 : 62141 ISANTTP8 - 62143 ATHNSSW8 CKT: 1          0.8367  0.8366  0.0001
  SINGLE 1849 : 62294 RUSH TP8 - 63022 CAMBRDG8 CKT: 1          0.8766  0.8772 -0.0006
  SINGLE 1846 : 62293 RUSH CY8 - 62294 RUSH TP8 CKT: 1          0.8775  0.8781 -0.0006
  SINGLE 1741 : 62104 COOPERC8 - 62144 SDRVLSW8 CKT: 1          0.8872  0.8874 -0.0002
  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1          0.8875  0.8877 -0.0002
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1          0.8967  0.8972 -0.0005
  SINGLE 1770 : 62126 PIPELIN8 - 62134 ELKR14S8 CKT: 1          0.9056  0.9060 -0.0004
  SINGLE 1740 : 62104 COOPERC8 - 62143 ATHNSSW8 CKT: 1          0.9123  0.9130 -0.0007
  SINGLE 1771 : 62126 PIPELIN8 - 62135 STFRNCS8 CKT: 1          0.9126  0.9130 -0.0004
  765         : ** MULTIPLE CONTINGENCY **                      0.9155  0.9157 -0.0002
             : 63048 RUSH CY4 - 60237 REDROCK4 CKT: 1
             : 60236 REDROCK3 - 60237 REDROCK4 CKT: 1
             : 60361 ROCKCR 4 - 63048 RUSH CY4 CKT: 1
  SINGLE 1746 : 62108 HUGO   8 - 62128 BLAINE 8 CKT: 1          0.9164  0.9180 -0.0016
  SINGLE 1790 : 62141 ISANTTP8 - 62296 INDSTTP8 CKT: 1          0.9198  0.9196  0.0002

==============================================================================================
 722) 62104 COOPERC8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1741 : 62104 COOPERC8 - 62144 SDRVLSW8 CKT: 1          0.8669  0.8671 -0.0002
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1          0.8807  0.8809 -0.0002
  SINGLE 1770 : 62126 PIPELIN8 - 62134 ELKR14S8 CKT: 1          0.9135  0.9138 -0.0003

==============================================================================================
 723) 62279 BRAHAM 8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1          0.7637  0.7640 -0.0003
```

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  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1          0.8359  0.8361 -0.0002
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1          0.8534  0.8540 -0.0006
  SINGLE 1789 : 62141 ISANTTP8 - 62143 ATHNSSW8 CKT: 1          0.8631  0.8631  0.0000
  SINGLE 1826 : 62275 PINECTY8 - 62285 RUSH SW8 CKT: 1          0.9006  0.9008 -0.0002
  SINGLE 1824 : 62274 RUSHCYD8 - 62285 RUSH SW8 CKT: 1          0.9013  0.9015 -0.0002
  SINGLE 1741 : 62104 COOPERC8 - 62144 SDRVLSW8 CKT: 1          0.9060  0.9063 -0.0003
  SINGLE 1832 : 62279 BRAHAM 8 - 62291 GRASTON8 CKT: 1          0.9060  0.9060  0.0000
  SINGLE 1849 : 62294 RUSH TP8 - 63022 CAMBRDG8 CKT: 1          0.9091  0.9099 -0.0008
  SINGLE 1846 : 62293 RUSH CY8 - 62294 RUSH TP8 CKT: 1          0.9098  0.9105 -0.0007

==============================================================================================
 724) 61916 N BRANCH                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1          0.7863  0.7866 -0.0003
  SINGLE 1746 : 62108 HUGO   8 - 62128 BLAINE 8 CKT: 1          0.8395  0.8429 -0.0034
  SINGLE 1831 : 62278 HARRIS 8 - 62293 RUSH CY8 CKT: 1          0.8837  0.8837  0.0000
  SINGLE 1744 : 62106 FOREST 8 - 62108 HUGO   8 CKT: 1          0.8952  0.8957 -0.0005
  SINGLE 1830 : 62278 HARRIS 8 - 62282 NBRNCH 8 CKT: 1          0.9119  0.9119  0.0000

==============================================================================================
 725) 62106 FOREST 8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1746 : 62108 HUGO   8 - 62128 BLAINE 8 CKT: 1          0.7540  0.7582 -0.0042
  SINGLE 1744 : 62106 FOREST 8 - 62108 HUGO   8 CKT: 1          0.8484  0.8488 -0.0004
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1          0.8676  0.8679 -0.0003

==============================================================================================
 726) 62111 MARTIN 8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1746 : 62108 HUGO   8 - 62128 BLAINE 8 CKT: 1          0.7648  0.7690 -0.0042
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1          0.8364  0.8367 -0.0003
  SINGLE 1744 : 62106 FOREST 8 - 62108 HUGO   8 CKT: 1          0.8513  0.8517 -0.0004
  SINGLE 1831 : 62278 HARRIS 8 - 62293 RUSH CY8 CKT: 1          0.9104  0.9104  0.0000

==============================================================================================
 727) 62140 MARTNTP8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1746 : 62108 HUGO   8 - 62128 BLAINE 8 CKT: 1          0.7706  0.7747 -0.0041
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1          0.8416  0.8418 -0.0002
  SINGLE 1744 : 62106 FOREST 8 - 62108 HUGO   8 CKT: 1          0.8564  0.8568 -0.0004
  SINGLE 1831 : 62278 HARRIS 8 - 62293 RUSH CY8 CKT: 1          0.9151  0.9151  0.0000

==============================================================================================
 728) 62282 NBRNCH 8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1          0.7881  0.7884 -0.0003
  SINGLE 1746 : 62108 HUGO   8 - 62128 BLAINE 8 CKT: 1          0.8413  0.8446 -0.0033
  SINGLE 1831 : 62278 HARRIS 8 - 62293 RUSH CY8 CKT: 1          0.8853  0.8853  0.0000
  SINGLE 1744 : 62106 FOREST 8 - 62108 HUGO   8 CKT: 1          0.8968  0.8973 -0.0005
  SINGLE 1830 : 62278 HARRIS 8 - 62282 NBRNCH 8 CKT: 1          0.9135  0.9135  0.0000

==============================================================================================
 729) 62108 HUGO   8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1746 : 62108 HUGO   8 - 62128 BLAINE 8 CKT: 1          0.7419  0.7462 -0.0043

==============================================================================================
 730) 62278 HARRIS 8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1          0.7740  0.7743 -0.0003
  SINGLE 1831 : 62278 HARRIS 8 - 62293 RUSH CY8 CKT: 1          0.8804  0.8804  0.0000
  SINGLE 1746 : 62108 HUGO   8 - 62128 BLAINE 8 CKT: 1          0.8924  0.8953 -0.0029
```

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==========================================================================================
 731) 62122 WESTEND8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1               0.7893  0.7898 -0.0005
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1               0.8564  0.8565 -0.0001
  680         : ** MULTIPLE CONTINGENCY **                           0.8579  0.8558  0.0021
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
  SINGLE 1787 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1               0.8754  0.8747  0.0007
  SINGLE 1785 : 62138 BRGGLKS8 - 62139 CABLETP8 CKT: 1               0.8973  0.8947  0.0026
  SINGLE 1765 : 62122 WESTEND8 - 62138 BRGGLKS8 CKT: 1               0.9079  0.9078  0.0001
  SINGLE 2023 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1               0.9081  0.9088 -0.0007

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 732) 62126 PIPELIN8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1770 : 62126 PIPELIN8 - 62134 ELKR14S8 CKT: 1               0.8643  0.8647 -0.0004

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 733) 60765 MAPLELK8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1               0.8428  0.8432 -0.0004
  SINGLE 2013 : 62938 OTSEGO 8 - 63020 ELK RIV8 CKT: 1               0.8859  0.8861 -0.0002
  SINGLE 2000 : 62929 ALBERTV8 - 62938 OTSEGO 8 CKT: 1               0.9057  0.9062 -0.0005
  SINGLE 2023 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1               0.9075  0.9080 -0.0005
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1               0.9086  0.9087 -0.0001
  680         : ** MULTIPLE CONTINGENCY **                           0.9093  0.9079  0.0014
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
  SINGLE 1787 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1               0.9152  0.9144  0.0008

==========================================================================================
 734) 62102 CABLE  8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1               0.8413  0.8414 -0.0001
  680         : ** MULTIPLE CONTINGENCY **                           0.8426  0.8407  0.0019
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
  SINGLE 1787 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1               0.8663  0.8656  0.0007
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1               0.8847  0.8850 -0.0003

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 735) 62138 BRGGLKS8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1               0.8153  0.8158 -0.0005
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1               0.8521  0.8522 -0.0001
  680         : ** MULTIPLE CONTINGENCY **                           0.8535  0.8515  0.0020
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
  SINGLE 1787 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1               0.8728  0.8721  0.0007
  SINGLE 1785 : 62138 BRGGLKS8 - 62139 CABLETP8 CKT: 1               0.8962  0.8936  0.0026

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 736) 62139 CABLETP8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1               0.8440  0.8441 -0.0001
  680         : ** MULTIPLE CONTINGENCY **                           0.8452  0.8433  0.0019
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
  SINGLE 1787 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1               0.8688  0.8681  0.0007
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1               0.8872  0.8875 -0.0003

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 737) 62150 E BL TP8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.5195  0.5206 -0.0011
  SINGLE 2023 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1          0.7822  0.7835 -0.0013
  SINGLE 1797 : 62150 E BL TP8 - 62965 ELKRWS18 CKT: 1          0.8712  0.8715 -0.0003

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 738) 62277 DUELM  8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.8109  0.8113 -0.0004
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1          0.8479  0.8480 -0.0001
  680         : ** MULTIPLE CONTINGENCY **                      0.8493  0.8473  0.0020
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
  SINGLE 1787 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1          0.8687  0.8680  0.0007
  SINGLE 1785 : 62138 BRGGLKS8 - 62139 CABLETP8 CKT: 1          0.8922  0.8896  0.0026
  SINGLE 2023 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1          0.9196   .....   *NEW*

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 739) 62295 DUELMSW8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.8117  0.8122 -0.0005
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1          0.8487  0.8488 -0.0001
  680         : ** MULTIPLE CONTINGENCY **                      0.8501  0.8481  0.0020
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
  SINGLE 1787 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1          0.8695  0.8688  0.0007
  SINGLE 1785 : 62138 BRGGLKS8 - 62139 CABLETP8 CKT: 1          0.8930  0.8904  0.0026

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 740) 62933 HIGHLND8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.8872  0.8876 -0.0004
  SINGLE 2008 : 62934 HOWARDL8 - 62943 VICTOR 8 CKT: 1          0.9097  0.9101 -0.0004
  SINGLE 2013 : 62938 OTSEGO 8 - 63020 ELK RIV8 CKT: 1          0.9188  0.9190 -0.0002

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 741) 62935 MAPLELK8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.8426  0.8430 -0.0004
  SINGLE 2013 : 62938 OTSEGO 8 - 63020 ELK RIV8 CKT: 1          0.8858  0.8859 -0.0001
  SINGLE 2000 : 62929 ALBERTV8 - 62938 OTSEGO 8 CKT: 1          0.9056  0.9061 -0.0005
  SINGLE 2023 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1          0.9074  0.9079 -0.0005
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1          0.9085  0.9086 -0.0001
  680         : ** MULTIPLE CONTINGENCY **                      0.9093  0.9079  0.0014
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
  SINGLE 1787 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1          0.9151  0.9143  0.0008

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 742) 62944 GOOSETP8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.8309  0.8313 -0.0004
  SINGLE 2013 : 62938 OTSEGO 8 - 63020 ELK RIV8 CKT: 1          0.8872  0.8874 -0.0002
  SINGLE 2023 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1          0.9022  0.9027 -0.0005
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1          0.9038  0.9039 -0.0001
  680         : ** MULTIPLE CONTINGENCY **                      0.9046  0.9031  0.0015
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
  SINGLE 2000 : 62929 ALBERTV8 - 62938 OTSEGO 8 CKT: 1          0.9063  0.9068 -0.0005
  SINGLE 1787 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1          0.9109  0.9101  0.0008
  SINGLE 2019 : 62944 GOOSETP8 - 63024 MAPLE 1G CKT: 1          0.9153  0.9150  0.0003
  SINGLE 2010 : 62935 MAPLELK8 - 63024 MAPLE 1G CKT: 1          0.9154  0.9151  0.0003
```

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  SINGLE 1785 : 62138 BRGGLKS8 - 62139 CABLETP8 CKT: 1          0.9198  0.9181  0.0017

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 743) 62948 BLACKLK8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.8692  0.8696 -0.0004
  SINGLE 2013 : 62938 OTSEGO 8 - 63020 ELK RIV8 CKT: 1          0.8693  0.8695 -0.0002
  SINGLE 2000 : 62929 ALBERTV8 - 62938 OTSEGO 8 CKT: 1          0.8955  0.8960 -0.0005
  SINGLE 2001 : 62929 ALBERTV8 - 62949 BLKLKTP8 CKT: 1          0.9175  0.9180 -0.0005

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 744) 62949 BLKLKTP8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.8705  0.8709 -0.0004
  SINGLE 2013 : 62938 OTSEGO 8 - 63020 ELK RIV8 CKT: 1          0.8706  0.8708 -0.0002
  SINGLE 2000 : 62929 ALBERTV8 - 62938 OTSEGO 8 CKT: 1          0.8967  0.8973 -0.0006
  SINGLE 2001 : 62929 ALBERTV8 - 62949 BLKLKTP8 CKT: 1          0.9188  0.9192 -0.0004

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 745) 62965 ELKRWS18                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.4999  0.5010 -0.0011
  SINGLE 2023 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1          0.7758  0.7772 -0.0014

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 746) 62967 ELKRWS28                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.4999  0.5010 -0.0011

==============================================================================================
 747) 63024 MAPLE 1G                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1778 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.8414  0.8419 -0.0005
  SINGLE 2013 : 62938 OTSEGO 8 - 63020 ELK RIV8 CKT: 1          0.8859  0.8861 -0.0002
  SINGLE 2000 : 62929 ALBERTV8 - 62938 OTSEGO 8 CKT: 1          0.9057  0.9062 -0.0005
  SINGLE 2023 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1          0.9069  0.9074 -0.0005
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1          0.9081  0.9081  0.0000
  680         : ** MULTIPLE CONTINGENCY **                      0.9088  0.9074  0.0014
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
  SINGLE 1787 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1          0.9147  0.9139  0.0008
  SINGLE 2010 : 62935 MAPLELK8 - 63024 MAPLE 1G CKT: 1          0.9154  0.9152  0.0002

==============================================================================================
 748) 62149 N ER TP8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1796 : 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1          0.7917  0.7912  0.0005
  SINGLE 1779 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1          0.7921  0.7916  0.0005

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 749) 62968 ELKRNTH8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1779 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1          0.7921  0.7916  0.0005

==============================================================================================
 750) 62275 PINECTY8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1          0.7373  0.7375 -0.0002
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1          0.7409  0.7412 -0.0003
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1          0.7710  0.7716 -0.0006
  SINGLE 1826 : 62275 PINECTY8 - 62285 RUSH SW8 CKT: 1          0.8617  0.8619 -0.0002
  SINGLE 1824 : 62274 RUSHCYD8 - 62285 RUSH SW8 CKT: 1          0.8630  0.8632 -0.0002
  SINGLE 1789 : 62141 ISANTTP8 - 62143 ATHNSSW8 CKT: 1          0.9021  0.9021  0.0000
```

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 751) 62291 GRASTON8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1               0.7738  0.7741 -0.0003
  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1               0.8149  0.8151 -0.0002
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1               0.8371  0.8377 -0.0006
  SINGLE 1789 : 62141 ISANTTP8 - 62143 ATHNSSW8 CKT: 1               0.8897  0.8897  0.0000
  SINGLE 1826 : 62275 PINECTY8 - 62285 RUSH SW8 CKT: 1               0.8975  0.8977 -0.0002
  SINGLE 1824 : 62274 RUSHCYD8 - 62285 RUSH SW8 CKT: 1               0.8983  0.8985 -0.0002

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 752) 63023 ROCKLK1G                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1               0.7373  0.7375 -0.0002
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1               0.7409  0.7412 -0.0003
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1               0.7710  0.7717 -0.0007
  SINGLE 1826 : 62275 PINECTY8 - 62285 RUSH SW8 CKT: 1               0.8617  0.8619 -0.0002
  SINGLE 1824 : 62274 RUSHCYD8 - 62285 RUSH SW8 CKT: 1               0.8630  0.8632 -0.0002
  SINGLE 1789 : 62141 ISANTTP8 - 62143 ATHNSSW8 CKT: 1               0.9021  0.9021  0.0000

==========================================================================================
 753) 62181 OAKLAWN8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1               0.6112  0.6114 -0.0002
  SINGLE 1798 : 62180 RIVTON 8 - 62190 OKLWNTP8 CKT: 1               0.7551  0.7546  0.0005

==========================================================================================
 754) 62182 PINECTR8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1               0.6543  0.6545 -0.0002
  SINGLE 1798 : 62180 RIVTON 8 - 62190 OKLWNTP8 CKT: 1               0.7732  0.7728  0.0004
  SINGLE 1811 : 62190 OKLWNTP8 - 62191 PINCTRT8 CKT: 1               0.8284  0.8283  0.0001
  SINGLE 1813 : 62191 PINCTRT8 - 62651 VINLDTP8 CKT: 1               0.8841  0.8841  0.0000

==========================================================================================
 755) 62190 OKLWNTP8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1               0.6114  0.6116 -0.0002
  SINGLE 1798 : 62180 RIVTON 8 - 62190 OKLWNTP8 CKT: 1               0.7552  0.7548  0.0004

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 756) 62191 PINCTRT8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1               0.6269  0.6271 -0.0002
  SINGLE 1798 : 62180 RIVTON 8 - 62190 OKLWNTP8 CKT: 1               0.7600  0.7596  0.0004
  SINGLE 1811 : 62190 OKLWNTP8 - 62191 PINCTRT8 CKT: 1               0.8215  0.8214  0.0001

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 757) 62646 WILSONL8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1               0.6233  0.6235 -0.0002
  SINGLE 1798 : 62180 RIVTON 8 - 62190 OKLWNTP8 CKT: 1               0.7570  0.7566  0.0004
  SINGLE 1811 : 62190 OKLWNTP8 - 62191 PINCTRT8 CKT: 1               0.8187  0.8186  0.0001

==========================================================================================
 758) 62651 VINLDTP8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1               0.6544  0.6546 -0.0002
  SINGLE 1798 : 62180 RIVTON 8 - 62190 OKLWNTP8 CKT: 1               0.7733  0.7728  0.0005
  SINGLE 1811 : 62190 OKLWNTP8 - 62191 PINCTRT8 CKT: 1               0.8284  0.8284  0.0000
  SINGLE 1813 : 62191 PINCTRT8 - 62651 VINLDTP8 CKT: 1               0.8842  0.8842  0.0000
```

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==========================================================================================
 759) 62183 CROSSLK8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1799 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1              0.3862  0.3862  0.0000
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1              0.5846  0.5847 -0.0001

==========================================================================================
 760) 62184 EMILY  8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1799 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1              0.4106  0.4106  0.0000
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1              0.5950  0.5952 -0.0002
  SINGLE 1814 : 62192 CRSSLKS8 - 62194 FFTYLKS8 CKT: 1              0.8833  0.8830  0.0003
  SINGLE 1933 : 62479 BALLCLB8 - 62487 DEER RV8 CKT: 1              0.9189  0.9186  0.0003

==========================================================================================
 761) 62185 OX LAKE8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1799 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1              0.4384  0.4384  0.0000
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1              0.6170  0.6173 -0.0003
  SINGLE 1814 : 62192 CRSSLKS8 - 62194 FFTYLKS8 CKT: 1              0.8922  0.8919  0.0003
  SINGLE 1933 : 62479 BALLCLB8 - 62487 DEER RV8 CKT: 1              0.8994  0.8992  0.0002

==========================================================================================
 762) 62186 THUN LK8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1799 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1              0.5555  0.5555  0.0000
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1              0.6976  0.6980 -0.0004
  SINGLE 1933 : 62479 BALLCLB8 - 62487 DEER RV8 CKT: 1              0.8587  0.8585  0.0002
  SINGLE 1936 : 62482 SALEMSW8 - 62483 BENA TP8 CKT: 1              0.9086  0.9079  0.0007
  SINGLE 1814 : 62192 CRSSLKS8 - 62194 FFTYLKS8 CKT: 1              0.9141  0.9138  0.0003
  SINGLE 1932 : 62479 BALLCLB8 - 62483 BENA TP8 CKT: 1              0.9179  0.9145  0.0034
  SINGLE 1908 : 62450 DEER RV7 - 62487 DEER RV8 CKT: 1              0.9196  0.9196  0.0000
  SINGLE 3381 : 62450 DEER RV7 - 61780 DEER RV7 CKT: 1              0.9196  0.9195  0.0001

==========================================================================================
 763) 62189 WABEDO 8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1799 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1              0.4571  0.4571  0.0000
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1              0.6253  0.6256 -0.0003
  SINGLE 1933 : 62479 BALLCLB8 - 62487 DEER RV8 CKT: 1              0.8788  0.8786  0.0002
  SINGLE 1814 : 62192 CRSSLKS8 - 62194 FFTYLKS8 CKT: 1              0.8933  0.8930  0.0003
  SINGLE 1936 : 62482 SALEMSW8 - 62483 BENA TP8 CKT: 1              0.9093  0.9087  0.0006

==========================================================================================
 764) 62192 CRSSLKS8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1799 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1              0.3870  0.3869  0.0001
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1              0.5855  0.5857 -0.0002

==========================================================================================
 765) 62194 FFTYLKS8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1799 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1              0.4150  0.4150  0.0000
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1              0.6002  0.6004 -0.0002
  SINGLE 1814 : 62192 CRSSLKS8 - 62194 FFTYLKS8 CKT: 1              0.8867  0.8864  0.0003

==========================================================================================
 766) 62196 BLINDLK8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1799 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1              0.4707  0.4707  0.0000
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1              0.6401  0.6404 -0.0003
  SINGLE 1933 : 62479 BALLCLB8 - 62487 DEER RV8 CKT: 1              0.8878  0.8876  0.0002
  SINGLE 1814 : 62192 CRSSLKS8 - 62194 FFTYLKS8 CKT: 1              0.9017  0.9014  0.0003
```

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==================================================================================================
 767) 62197 WABDOSW8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1799 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1              0.4573  0.4573  0.0000
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1              0.6255  0.6258 -0.0003
  SINGLE 1933 : 62479 BALLCLB8 - 62487 DEER RV8 CKT: 1              0.8790  0.8788  0.0002
  SINGLE 1814 : 62192 CRSSLKS8 - 62194 FFTYLKS8 CKT: 1              0.8935  0.8932  0.0003
  SINGLE 1936 : 62482 SALEMSW8 - 62483 BENA TP8 CKT: 1              0.9095  0.9089  0.0006

==================================================================================================
 768) 62207 PLSNTLK8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1799 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1              0.4574  0.4574  0.0000
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1              0.6257  0.6260 -0.0003
  SINGLE 1933 : 62479 BALLCLB8 - 62487 DEER RV8 CKT: 1              0.8792  0.8790  0.0002
  SINGLE 1814 : 62192 CRSSLKS8 - 62194 FFTYLKS8 CKT: 1              0.8937  0.8934  0.0003
  SINGLE 1936 : 62482 SALEMSW8 - 62483 BENA TP8 CKT: 1              0.9097  0.9091  0.0006

==================================================================================================
 769) 62479 BALLCLB8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1799 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1              0.8198  0.8199 -0.0001
  SINGLE 1933 : 62479 BALLCLB8 - 62487 DEER RV8 CKT: 1              0.8227  0.8226  0.0001
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1              0.8801  0.8804 -0.0003
  SINGLE 1908 : 62450 DEER RV7 - 62487 DEER RV8 CKT: 1              0.9094  0.9094  0.0000
  SINGLE 3381 : 62450 DEER RV7 - 61780 DEER RV7 CKT: 1              0.9094  0.9094  0.0000

==================================================================================================
 770) 62480 BENA   8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1799 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1              0.7812  0.7813 -0.0001
  SINGLE 1933 : 62479 BALLCLB8 - 62487 DEER RV8 CKT: 1              0.8178  0.8177  0.0001
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1              0.8513  0.8517 -0.0004
  SINGLE 1932 : 62479 BALLCLB8 - 62483 BENA TP8 CKT: 1              0.9000  0.8962  0.0038
  SINGLE 1908 : 62450 DEER RV7 - 62487 DEER RV8 CKT: 1              0.9029  0.9029  0.0000
  SINGLE 3381 : 62450 DEER RV7 - 61780 DEER RV7 CKT: 1              0.9029  0.9029  0.0000

==================================================================================================
 771) 62481 BOY RIV8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1799 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1              0.6805  0.6805  0.0000
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1              0.7808  0.7813 -0.0005
  SINGLE 1933 : 62479 BALLCLB8 - 62487 DEER RV8 CKT: 1              0.8252  0.8250  0.0002
  SINGLE 1936 : 62482 SALEMSW8 - 62483 BENA TP8 CKT: 1              0.8931  0.8922  0.0009
  SINGLE 1932 : 62479 BALLCLB8 - 62483 BENA TP8 CKT: 1              0.8999  0.8962  0.0037
  SINGLE 1908 : 62450 DEER RV7 - 62487 DEER RV8 CKT: 1              0.9021  0.9020  0.0001
  SINGLE 3381 : 62450 DEER RV7 - 61780 DEER RV7 CKT: 1              0.9021  0.9020  0.0001

==================================================================================================
 772) 62482 SALEMSW8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1799 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1              0.6908  0.6909 -0.0001
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1              0.7903  0.7906 -0.0003
  SINGLE 1933 : 62479 BALLCLB8 - 62487 DEER RV8 CKT: 1              0.8342  0.8340  0.0002
  SINGLE 1936 : 62482 SALEMSW8 - 62483 BENA TP8 CKT: 1              0.9012  0.9004  0.0008
  SINGLE 1932 : 62479 BALLCLB8 - 62483 BENA TP8 CKT: 1              0.9079  0.9043  0.0036
  SINGLE 1908 : 62450 DEER RV7 - 62487 DEER RV8 CKT: 1              0.9102  0.9101  0.0001
  SINGLE 3381 : 62450 DEER RV7 - 61780 DEER RV7 CKT: 1              0.9102  0.9101  0.0001

==================================================================================================
 773) 62483 BENA TP8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
```

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  SINGLE 1799 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1          0.7883  0.7883  0.0000
  SINGLE 1933 : 62479 BALLCLB8 - 62487 DEER RV8 CKT: 1          0.8249  0.8247  0.0002
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.8580  0.8583 -0.0003
  SINGLE 1932 : 62479 BALLCLB8 - 62483 BENA TP8 CKT: 1          0.9061  0.9025  0.0036
  SINGLE 1908 : 62450 DEER RV7 - 62487 DEER RV8 CKT: 1          0.9091  0.9091  0.0000
  SINGLE 3381 : 62450 DEER RV7 - 61780 DEER RV7 CKT: 1          0.9091  0.9091  0.0000

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 774) 62487 DEER RV8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1799 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1          0.8969  0.8970 -0.0001
  SINGLE 1908 : 62450 DEER RV7 - 62487 DEER RV8 CKT: 1          0.9145  0.9145  0.0000
  SINGLE 3381 : 62450 DEER RV7 - 61780 DEER RV7 CKT: 1          0.9145  0.9145  0.0000

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 775) 62489 REMER  8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1799 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1          0.6261  0.6262 -0.0001
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.7458  0.7462 -0.0004
  SINGLE 1933 : 62479 BALLCLB8 - 62487 DEER RV8 CKT: 1          0.8434  0.8432  0.0002
  SINGLE 1936 : 62482 SALEMSW8 - 62483 BENA TP8 CKT: 1          0.9032  0.9024  0.0008
  SINGLE 1932 : 62479 BALLCLB8 - 62483 BENA TP8 CKT: 1          0.9110  0.9075  0.0035
  SINGLE 1908 : 62450 DEER RV7 - 62487 DEER RV8 CKT: 1          0.9130  0.9130  0.0000
  SINGLE 3381 : 62450 DEER RV7 - 61780 DEER RV7 CKT: 1          0.9130  0.9129  0.0001

==============================================================================================
 776) 62696 JESS LK8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1799 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1          0.8774  0.8775 -0.0001
  SINGLE 1908 : 62450 DEER RV7 - 62487 DEER RV8 CKT: 1          0.8953  0.8952  0.0001
  SINGLE 3381 : 62450 DEER RV7 - 61780 DEER RV7 CKT: 1          0.8953  0.8952  0.0001
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.9172  0.9174 -0.0002

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 777) 62697 BIGFORK8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1799 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1          0.8568  0.8569 -0.0001
  SINGLE 3381 : 62450 DEER RV7 - 61780 DEER RV7 CKT: 1          0.8749  0.8747  0.0002
  SINGLE 1908 : 62450 DEER RV7 - 62487 DEER RV8 CKT: 1          0.8750  0.8747  0.0003
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.8973  0.8976 -0.0003

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 778) 62698 WIRT   8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1799 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1          0.8627  0.8628 -0.0001
  SINGLE 1908 : 62450 DEER RV7 - 62487 DEER RV8 CKT: 1          0.8809  0.8807  0.0002
  SINGLE 3381 : 62450 DEER RV7 - 61780 DEER RV7 CKT: 1          0.8809  0.8807  0.0002
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.9031  0.9034 -0.0003

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 779) 62699 EVENSON8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1799 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1          0.8613  0.8614 -0.0001
  SINGLE 3381 : 62450 DEER RV7 - 61780 DEER RV7 CKT: 1          0.8794  0.8793  0.0001
  SINGLE 1908 : 62450 DEER RV7 - 62487 DEER RV8 CKT: 1          0.8795  0.8793  0.0002
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.9018  0.9021 -0.0003

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 780) 62700 WIRTTPS8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1799 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1          0.8650  0.8651 -0.0001
  SINGLE 1908 : 62450 DEER RV7 - 62487 DEER RV8 CKT: 1          0.8831  0.8829  0.0002
  SINGLE 3381 : 62450 DEER RV7 - 61780 DEER RV7 CKT: 1          0.8831  0.8829  0.0002
```

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  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.9052  0.9055 -0.0003

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 781) 62285 RUSH SW8                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1          0.7079  0.7081 -0.0002
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1          0.7494  0.7500 -0.0006
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1          0.7501  0.7504 -0.0003
  SINGLE 1824 : 62274 RUSHCYD8 - 62285 RUSH SW8 CKT: 1          0.8633  0.8635 -0.0002

==================================================================================================
 782) 62274 RUSHCYD8                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1          0.7041  0.7044 -0.0003
  SINGLE 1825 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1          0.7466  0.7472 -0.0006
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1          0.7513  0.7516 -0.0003

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 783) 62294 RUSH TP8                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1          0.7630  0.7633 -0.0003
  SINGLE 1846 : 62293 RUSH CY8 - 62294 RUSH TP8 CKT: 1          0.8779  0.8785 -0.0006

==================================================================================================
 784) 62299 ADRIANR8                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1847 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1          0.7039  0.7042 -0.0003
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1          0.7524  0.7527 -0.0003

==================================================================================================
 785) 62293 RUSH CY8                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1848 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1          0.7624  0.7627 -0.0003

==================================================================================================
 786) 62272 GILMAN 8                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1851 : 62297 BENTON 8 - 62300 MINDEN 8 CKT: 1          0.8290  0.8292 -0.0002
  SINGLE 1852 : 62298 MAYHWTP8 - 62300 MINDEN 8 CKT: 1          0.8671  0.8673 -0.0002
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1          0.8708  0.8709 -0.0001
  680         : ** MULTIPLE CONTINGENCY **                      0.8715  0.8702  0.0013
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1

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 787) 62281 MAYHEW 8                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1851 : 62297 BENTON 8 - 62300 MINDEN 8 CKT: 1          0.7688  0.7689 -0.0001
  SINGLE 1852 : 62298 MAYHWTP8 - 62300 MINDEN 8 CKT: 1          0.8211  0.8212 -0.0001
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1          0.8272  0.8273 -0.0001
  680         : ** MULTIPLE CONTINGENCY **                      0.8282  0.8265  0.0017
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1

==================================================================================================
 788) 62286 PIPE2TP8                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1851 : 62297 BENTON 8 - 62300 MINDEN 8 CKT: 1          0.7875  0.7876 -0.0001
  SINGLE 1852 : 62298 MAYHWTP8 - 62300 MINDEN 8 CKT: 1          0.8369  0.8370 -0.0001
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1          0.8424  0.8425 -0.0001
  680         : ** MULTIPLE CONTINGENCY **                      0.8434  0.8418  0.0016
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
```

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==========================================================================================
 789) 62287 OAKPARK8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1851 : 62297 BENTON 8 - 62300 MINDEN 8 CKT: 1              0.7963  0.7964 -0.0001
  SINGLE 1852 : 62298 MAYHWTP8 - 62300 MINDEN 8 CKT: 1              0.8425  0.8426 -0.0001
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1              0.8474  0.8475 -0.0001
  680         : ** MULTIPLE CONTINGENCY **                          0.8483  0.8468  0.0015
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1

==========================================================================================
 790) 62288 OAKPKTP8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1851 : 62297 BENTON 8 - 62300 MINDEN 8 CKT: 1              0.7980  0.7981 -0.0001
  SINGLE 1852 : 62298 MAYHWTP8 - 62300 MINDEN 8 CKT: 1              0.8441  0.8442 -0.0001
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1              0.8490  0.8491 -0.0001
  680         : ** MULTIPLE CONTINGENCY **                          0.8499  0.8483  0.0016
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1

==========================================================================================
 791) 62289 PIPE 2 8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1851 : 62297 BENTON 8 - 62300 MINDEN 8 CKT: 1              0.7872  0.7874 -0.0002
  SINGLE 1852 : 62298 MAYHWTP8 - 62300 MINDEN 8 CKT: 1              0.8366  0.8368 -0.0002
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1              0.8422  0.8423 -0.0001
  680         : ** MULTIPLE CONTINGENCY **                          0.8431  0.8415  0.0016
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1

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 792) 62290 MAYHWSW8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1851 : 62297 BENTON 8 - 62300 MINDEN 8 CKT: 1              0.7991  0.7992 -0.0001
  SINGLE 1852 : 62298 MAYHWTP8 - 62300 MINDEN 8 CKT: 1              0.8451  0.8452 -0.0001
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1              0.8500  0.8502 -0.0002
  680         : ** MULTIPLE CONTINGENCY **                          0.8509  0.8494  0.0015
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1

==========================================================================================
 793) 62298 MAYHWTP8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1851 : 62297 BENTON 8 - 62300 MINDEN 8 CKT: 1              0.7807  0.7809 -0.0002
  SINGLE 1852 : 62298 MAYHWTP8 - 62300 MINDEN 8 CKT: 1              0.8323  0.8324 -0.0001
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1              0.8383  0.8384 -0.0001
  680         : ** MULTIPLE CONTINGENCY **                          0.8393  0.8376  0.0017
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1

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 794) 62300 MINDEN 8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 1851 : 62297 BENTON 8 - 62300 MINDEN 8 CKT: 1              0.7752  0.7753 -0.0001
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1              0.8402  0.8403 -0.0001
  680         : ** MULTIPLE CONTINGENCY **                          0.8413  0.8395  0.0018
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1

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 795) 62312 HINCKMP8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
```

```
  SINGLE 3377 : 62314 BEAR CK8 - 61580 BEARCK 4 CKT: 1          0.8197  0.8213 -0.0016
  SINGLE 1864 : 62311 HINCKTP8 - 62314 BEAR CK8 CKT: 1          0.8442  0.8402  0.0040
  SINGLE 1863 : 62311 HINCKTP8 - 62312 HINCKMP8 CKT: 1          0.9062  0.9050  0.0012

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 796) 62313 GRNDSTN8                                           PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 3377 : 62314 BEAR CK8 - 61580 BEARCK 4 CKT: 1          0.8175  0.8192 -0.0017
  SINGLE 1864 : 62311 HINCKTP8 - 62314 BEAR CK8 CKT: 1          0.8422  0.8381  0.0041
  SINGLE 1863 : 62311 HINCKTP8 - 62312 HINCKMP8 CKT: 1          0.9043  0.9031  0.0012

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 797) 62304 HNCKLEY8                                           PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 3377 : 62314 BEAR CK8 - 61580 BEARCK 4 CKT: 1          0.8221  0.8237 -0.0016
  SINGLE 1864 : 62311 HINCKTP8 - 62314 BEAR CK8 CKT: 1          0.8422  0.8382  0.0040

==============================================================================================
 798) 62311 HINCKTP8                                           PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 3377 : 62314 BEAR CK8 - 61580 BEARCK 4 CKT: 1          0.8226  0.8242 -0.0016
  SINGLE 1864 : 62311 HINCKTP8 - 62314 BEAR CK8 CKT: 1          0.8427  0.8387  0.0040

==============================================================================================
 799) 62460 WRIGHT 8                                           PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1910 : 62459 CRMWLLD8 - 62470 CROMWLL8 CKT: 1          0.9117  0.9119 -0.0002

==============================================================================================
 800) 62461 ROUNDLK8                                           PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1910 : 62459 CRMWLLD8 - 62470 CROMWLL8 CKT: 1          0.9006  0.9008 -0.0002
  SINGLE 3382 : 62470 CROMWLL8 - 61655 CROMWLL7 CKT: 1          0.9138  0.9140 -0.0002

==============================================================================================
 801) 62649 PALISAD8                                           PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 1910 : 62459 CRMWLLD8 - 62470 CROMWLL8 CKT: 1          0.8997  0.8999 -0.0002
  SINGLE 3382 : 62470 CROMWLL8 - 61655 CROMWLL7 CKT: 1          0.9131  0.9132 -0.0001

==============================================================================================
 802) 62929 ALBERTV8                                           PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 2013 : 62938 OTSEGO 8 - 63020 ELK RIV8 CKT: 1          0.8452  0.8453 -0.0001
  SINGLE 2000 : 62929 ALBERTV8 - 62938 OTSEGO 8 CKT: 1          0.8846  0.8852 -0.0006

==============================================================================================
 803) 62934 HOWARDL8                                           PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 2008 : 62934 HOWARDL8 - 62943 VICTOR 8 CKT: 1          0.8924  0.8927 -0.0003

==============================================================================================
 804) 62938 OTSEGO 8                                           PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 2013 : 62938 OTSEGO 8 - 63020 ELK RIV8 CKT: 1          0.8376  0.8377 -0.0001

==============================================================================================
 805) 62434 PR WDS 8                                           PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  500         : ** MULTIPLE CONTINGENCY **                     0.9128  0.9136 -0.0008
              : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
              : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1
  SINGLE 2053 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1          0.9169  0.9177 -0.0008
```

```
==========================================================================================
 806) 62435 PRWDTAP8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  500          : ** MULTIPLE CONTINGENCY **                         0.9140  0.9148 -0.0008
               : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
               : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1
  SINGLE 2053  : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1             0.9181  0.9189 -0.0008

==========================================================================================
 807) 60144 DGLASCO7                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 2101  : 63219 GRANTCO7 - 63220 ELBOWLK7 CKT: 1             0.8813  0.8817 -0.0004
  750          : ** MULTIPLE CONTINGENCY **                         0.9030  0.9016  0.0014
               : 62817 LSAUKTP7 - 60144 DGLASCO7 CKT: 1
               : 60144 DGLASCO7 - 60749 DGLAS C8 CKT: 1
  SINGLE 2104  : 63220 ELBOWLK7 - 63221 BRANDN 7 CKT: 1             0.9041  0.9039  0.0002
  SINGLE 2918  : 60144 DGLASCO7 - 62817 LSAUKTP7 CKT: 1             0.9043  0.9030  0.0013
  SINGLE 2106  : 63222 ALEXAND7 - 67452 ALEXSS   CKT: 1             0.9100  0.9107 -0.0007

==========================================================================================
 808) 62527 ELMO   7                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 2101  : 63219 GRANTCO7 - 63220 ELBOWLK7 CKT: 1             0.9069  0.9074 -0.0005

==========================================================================================
 809) 62531 INMAN  7                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 2101  : 63219 GRANTCO7 - 63220 ELBOWLK7 CKT: 1             0.9178  0.9183 -0.0005

==========================================================================================
 810) 62532 FERGUS 7                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 2108  : 63223 HOOT LK7 - 63233 EDGETAP7 CKT: 1             0.9164  0.9166 -0.0002

==========================================================================================
 811) 63232 EDGETWN7                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 2108  : 63223 HOOT LK7 - 63233 EDGETAP7 CKT: 1             0.9164  0.9166 -0.0002

==========================================================================================
 812) 63233 EDGETAP7                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 2108  : 63223 HOOT LK7 - 63233 EDGETAP7 CKT: 1             0.9183  0.9185 -0.0002

==========================================================================================
 813) 66587 MOORHED7                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 2373  : 66435 FARGO  4 - 66553 MOORHED4 CKT: 1             0.9164  0.9170 -0.0006

==========================================================================================
 814) 66590 L8ORANG8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 2441  : 66499 L3HAWDN8 - 66590 L8ORANG8 CKT: 1             0.9108  0.9110 -0.0002

==========================================================================================
 815) 66592 L2UNION8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 2528  : 66574 SIOUXCY8 - 66592 L2UNION8 CKT: 1             0.8968  0.8972 -0.0004

==========================================================================================
 816) 67213 AVSDC2TY                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
```

```
  SINGLE 2642 : 67212 AVSDC1TY - 67216 AVSDC5TY CKT: 1          0.9127  0.9127  0.0000

==================================================================================================
 817) 67216 AVSDC5TY                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 2642 : 67212 AVSDC1TY - 67216 AVSDC5TY CKT: 1          0.8044  0.8044  0.0000

==================================================================================================
 818) 67217 AVSDC6TY                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 2642 : 67212 AVSDC1TY - 67216 AVSDC5TY CKT: 1          0.9026  0.9026  0.0000

==================================================================================================
 819) 67222 AVSD11TY                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 2646 : 67218 AVSDC7TY - 67222 AVSD11TY CKT: 1          0.8064  0.8064  0.0000

==================================================================================================
 820) 67223 AVSD12TY                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 2646 : 67218 AVSDC7TY - 67222 AVSD11TY CKT: 1          0.8905  0.8905  0.0000

==================================================================================================
 821) 34523 HILLSIEY                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 2857 : 34523 HILLSIEY - 64350 HILLS  3 CKT: 1          0.9155  0.9155  0.0000

==================================================================================================
 822) 60915 HASTING8                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  WEH-CHE/HAS7: ** MULTIPLE CONTINGENCY **                      0.7858  0.7858  0.0000
              : 60342 WHAST  7 - 60201 CHEMOLT7 CKT: 1
              : 62258 WHASTNG8 - 60915 HASTING8 CKT: 1
  SINGLE 3190 : 60915 HASTING8 - 62258 WHASTNG8 CKT: 1          0.7871  0.7871  0.0000
  SINGLE 3013 : 60342 WHAST  7 - 62258 WHASTNG8 CKT: 1          0.8690  0.8690  0.0000

==================================================================================================
 823) 61033 KCH-PRE8                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  WEH-CHE/HAS7: ** MULTIPLE CONTINGENCY **                      0.8130  0.8130  0.0000
              : 60342 WHAST  7 - 60201 CHEMOLT7 CKT: 1
              : 62258 WHASTNG8 - 60915 HASTING8 CKT: 1
  SINGLE 3190 : 60915 HASTING8 - 62258 WHASTNG8 CKT: 1          0.8142  0.8142  0.0000
  SINGLE 3013 : 60342 WHAST  7 - 62258 WHASTNG8 CKT: 1          0.8884  0.8884  0.0000

==================================================================================================
 824) 61034 PRESCOT8                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  WEH-CHE/HAS7: ** MULTIPLE CONTINGENCY **                      0.7938  0.7938  0.0000
              : 60342 WHAST  7 - 60201 CHEMOLT7 CKT: 1
              : 62258 WHASTNG8 - 60915 HASTING8 CKT: 1
  SINGLE 3190 : 60915 HASTING8 - 62258 WHASTNG8 CKT: 1          0.7951  0.7951  0.0000
  SINGLE 3013 : 60342 WHAST  7 - 62258 WHASTNG8 CKT: 1          0.8745  0.8745  0.0000

==================================================================================================
 825) 61141 T OAKGR8                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  WEH-CHE/HAS7: ** MULTIPLE CONTINGENCY **                      0.8078  0.8078  0.0000
              : 60342 WHAST  7 - 60201 CHEMOLT7 CKT: 1
              : 62258 WHASTNG8 - 60915 HASTING8 CKT: 1
  SINGLE 3190 : 60915 HASTING8 - 62258 WHASTNG8 CKT: 1          0.8090  0.8090  0.0000
  SINGLE 3013 : 60342 WHAST  7 - 62258 WHASTNG8 CKT: 1          0.8847  0.8847  0.0000
```

```
==========================================================================================
 826) 61144 T TRIMB8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  WEH-CHE/HAS7: ** MULTIPLE CONTINGENCY **                           0.8415  0.8415  0.0000
              : 60342 WHAST  7 - 60201 CHEMOLT7 CKT: 1
              : 62258 WHASTNG8 - 60915 HASTING8 CKT: 1
  SINGLE 3190 : 60915 HASTING8 - 62258 WHASTNG8 CKT: 1               0.8427  0.8427  0.0000
  SINGLE 3013 : 60342 WHAST  7 - 62258 WHASTNG8 CKT: 1               0.9078  0.9079 -0.0001

==========================================================================================
 827) 60826 TRAVRSE8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 3024 : 60650 WILMART8 - 62336 JHNSNTP8 CKT: 1               0.8968  0.8965  0.0003

==========================================================================================
 828) 60703 WATKINS8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 3055 : 60717 WAKEFLD8 - 62846 FRHV TP8 CKT: 1               0.8906  0.8905  0.0001
  SINGLE 3047 : 60703 WATKINS8 - 62620 WATKINS8 CKT: 1               0.8935  0.8935  0.0000
  SINGLE 3051 : 60705 LUXBGTP8 - 62846 FRHV TP8 CKT: 1               0.8984  0.8984  0.0000

==========================================================================================
 829) 60705 LUXBGTP8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 3055 : 60717 WAKEFLD8 - 62846 FRHV TP8 CKT: 1               0.8895  0.8895  0.0000
  SINGLE 3051 : 60705 LUXBGTP8 - 62846 FRHV TP8 CKT: 1               0.8970  0.8970  0.0000

==========================================================================================
 830) 60676 TROYT R8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 3056 : 60718 BIRDISL8 - 60682 KNGMN R8 CKT: 1               0.8895  0.8899 -0.0004

==========================================================================================
 831) 60735 WAVERLY8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 3076 : 60739 DASSEL 8 - 62617 BIGSWAN8 CKT: 1               0.9198  0.9198  0.0000

==========================================================================================
 832) 60736 HOWRDLK8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 3076 : 60739 DASSEL 8 - 62617 BIGSWAN8 CKT: 1               0.8790  0.8790  0.0000

==========================================================================================
 833) 60739 DASSEL 8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 3076 : 60739 DASSEL 8 - 62617 BIGSWAN8 CKT: 1               0.8379  0.8379  0.0000

==========================================================================================
 834) 60779 ALTURA 8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 3109 : 60779 ALTURA 8 - 68719 WEAVER   CKT: 1               0.9092  0.9096 -0.0004

==========================================================================================
 835) 60905 FRMNGTN8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 3188 : 60905 FRMNGTN8 - 62259 LKMARN 8 CKT: 1               0.8968  0.8969 -0.0001

==========================================================================================
 836) 61150 NSCASTL8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 3188 : 60905 FRMNGTN8 - 62259 LKMARN 8 CKT: 1               0.9054  0.9055 -0.0001

==========================================================================================
```

```
 837) 61029 MAIDENR8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------
  WEH-CHE/HAS7: ** MULTIPLE CONTINGENCY **                     0.9025  0.9025  0.0000
              : 60342 WHAST  7 - 60201 CHEMOLT7 CKT: 1
              : 62258 WHASTNG8 - 60915 HASTING8 CKT: 1
  SINGLE 3190 : 60915 HASTING8 - 62258 WHASTNG8 CKT: 1          0.9035  0.9035  0.0000

=========================================================================================
 838) 61030 HERBERT8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------
  WEH-CHE/HAS7: ** MULTIPLE CONTINGENCY **                     0.9033  0.9033  0.0000
              : 60342 WHAST  7 - 60201 CHEMOLT7 CKT: 1
              : 62258 WHASTNG8 - 60915 HASTING8 CKT: 1
  SINGLE 3190 : 60915 HASTING8 - 62258 WHASTNG8 CKT: 1          0.9043  0.9043  0.0000

=========================================================================================
 839) 61032 ELLSWRT8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------
  WEH-CHE/HAS7: ** MULTIPLE CONTINGENCY **                     0.8663  0.8663  0.0000
              : 60342 WHAST  7 - 60201 CHEMOLT7 CKT: 1
              : 62258 WHASTNG8 - 60915 HASTING8 CKT: 1
  SINGLE 3190 : 60915 HASTING8 - 62258 WHASTNG8 CKT: 1          0.8674  0.8674  0.0000

=========================================================================================
 840) 60824 FRONTNC8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------
  SINGLE 3233 : 60982 ALMA   8 - 68874 ALMA 8   CKT: 1          0.9129  0.9130 -0.0001

=========================================================================================
 841) 60982 ALMA   8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------
  SINGLE 3233 : 60982 ALMA   8 - 68874 ALMA 8   CKT: 1          0.7953  0.7954 -0.0001

=========================================================================================
 842) 60990 STRUM  8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------
  SINGLE 3239 : 60990 STRUM  8 - 68903 T STRUM  CKT: 1          0.9024  0.9026 -0.0002

=========================================================================================
 843) 61910 MILACA 4                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------
  SINGLE 3362 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1          0.8834  0.8840 -0.0006

=========================================================================================
 844) 61980 RICE   5                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------
  SINGLE 3368 : 61980 RICE   5 - 69526 BVR CRK5 CKT: 1          0.8535  0.8538 -0.0003

=========================================================================================
 845) 62180 RIVTON 8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------
  SINGLE 3372 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.6016  0.6018 -0.0002

=========================================================================================
 846) 62297 BENTON 8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------
  SINGLE 3374 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1          0.8402  0.8403 -0.0001
  680         : ** MULTIPLE CONTINGENCY **                      0.8413  0.8395  0.0018
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1

=========================================================================================
 847) 62305 SANDSTN8                                          PSTCNT2 PSTCNT1 PU-CHNG
```

```
-----------------------------------------------------------------------------------------------
  SINGLE 3377 : 62314 BEAR CK8 - 61580 BEARCK 4 CKT: 1          0.8317  0.8333 -0.0016

===============================================================================================
 848) 62306 HARRY M8                                           PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 3377 : 62314 BEAR CK8 - 61580 BEARCK 4 CKT: 1          0.8552  0.8567 -0.0015

===============================================================================================
 849) 62307 DENHAM 8                                           PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 3377 : 62314 BEAR CK8 - 61580 BEARCK 4 CKT: 1          0.8851  0.8865 -0.0014

===============================================================================================
 850) 62308 SAND TP8                                           PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 3377 : 62314 BEAR CK8 - 61580 BEARCK 4 CKT: 1          0.8371  0.8387 -0.0016

===============================================================================================
 851) 62310 SAND MP8                                           PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 3377 : 62314 BEAR CK8 - 61580 BEARCK 4 CKT: 1          0.8379  0.8395 -0.0016

===============================================================================================
 852) 62314 BEAR CK8                                           PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 3377 : 62314 BEAR CK8 - 61580 BEARCK 4 CKT: 1          0.8344  0.8360 -0.0016

===============================================================================================
 853) 62445 4CORNRS7                                           PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 3380 : 62445 4CORNRS7 - 61673 ARROWHD7 CKT: 1          0.8729  0.8729  0.0000

===============================================================================================
 854) 62450 DEER RV7                                           PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 3381 : 62450 DEER RV7 - 61780 DEER RV7 CKT: 1          0.8993  0.8992  0.0001

===============================================================================================
 855) 60821 MAZEPPA8                                           PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SPC-PRI/CTF5: ** MULTIPLE CONTINGENCY **                      0.9186  0.9187 -0.0001
              : 63071 SPRNGCK5 - 60106 PR ISLD5 CKT: 1
              : 63071 SPRNGCK5 - 60103 CANNFLS5 CKT: 1
  740    1    : ** MULTIPLE CONTINGENCY **                      0.9186  0.9187 -0.0001
              : 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1
              : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1
              : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1

===============================================================================================
 856) 60822 ZUMBFLS8                                           PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SPC-PRI/CTF5: ** MULTIPLE CONTINGENCY **                      0.9147  0.9148 -0.0001
              : 63071 SPRNGCK5 - 60106 PR ISLD5 CKT: 1
              : 63071 SPRNGCK5 - 60103 CANNFLS5 CKT: 1
  740    1    : ** MULTIPLE CONTINGENCY **                      0.9147  0.9148 -0.0001
              : 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1
              : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1
              : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1

===============================================================================================
 857) 60282 REDCDR 5                                           PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
```

```
 RCD-CRY/WHT5: ** MULTIPLE CONTINGENCY **                        0.8794  0.8794  0.0000
             : 60282 REDCDR 5 - 60329 CRYSTAL5 CKT: 1
             : 60282 REDCDR 5 - 60319 WHEATTP5 CKT: 1

==============================================================================================
 858) 60132 WSX FLS7                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  525      1  : ** MULTIPLE CONTINGENCY **                       0.5391  0.5388  0.0003
             : 60117 CHERRYC7 - 60132 WSX FLS7 CKT: 1
             : 60129 SPLT RK7 - 60132 WSX FLS7 CKT: 1

==============================================================================================
 859) 60836 LINCLNC8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  525      1  : ** MULTIPLE CONTINGENCY **                       0.8808  0.8806  0.0002
             : 60117 CHERRYC7 - 60132 WSX FLS7 CKT: 1
             : 60129 SPLT RK7 - 60132 WSX FLS7 CKT: 1

==============================================================================================
 860) 60837 LINCTAP8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  525      1  : ** MULTIPLE CONTINGENCY **                       0.7950  0.7947  0.0003
             : 60117 CHERRYC7 - 60132 WSX FLS7 CKT: 1
             : 60129 SPLT RK7 - 60132 WSX FLS7 CKT: 1

==============================================================================================
 861) 60839 CANTON 8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  525      1  : ** MULTIPLE CONTINGENCY **                       0.8529  0.8527  0.0002
             : 60117 CHERRYC7 - 60132 WSX FLS7 CKT: 1
             : 60129 SPLT RK7 - 60132 WSX FLS7 CKT: 1

==============================================================================================
 862) 60843 CNTRVIL8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  525      1  : ** MULTIPLE CONTINGENCY **                       0.8412  0.8410  0.0002
             : 60117 CHERRYC7 - 60132 WSX FLS7 CKT: 1
             : 60129 SPLT RK7 - 60132 WSX FLS7 CKT: 1

==============================================================================================
 863) 60844 LENNOX 8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  525      1  : ** MULTIPLE CONTINGENCY **                       0.8511  0.8509  0.0002
             : 60117 CHERRYC7 - 60132 WSX FLS7 CKT: 1
             : 60129 SPLT RK7 - 60132 WSX FLS7 CKT: 1

==============================================================================================
 864) 60845 CANTNTP8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  525      1  : ** MULTIPLE CONTINGENCY **                       0.8644  0.8641  0.0003
             : 60117 CHERRYC7 - 60132 WSX FLS7 CKT: 1
             : 60129 SPLT RK7 - 60132 WSX FLS7 CKT: 1

==============================================================================================
 865) 60846 HARSBRG8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  525      1  : ** MULTIPLE CONTINGENCY **                       0.8759  0.8757  0.0002
             : 60117 CHERRYC7 - 60132 WSX FLS7 CKT: 1
             : 60129 SPLT RK7 - 60132 WSX FLS7 CKT: 1

==============================================================================================
 866) 60849 SSX FLS8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
```

```
  525      1  : ** MULTIPLE CONTINGENCY **                        0.7705  0.7703  0.0002
              : 60117 CHERRYC7 - 60132 WSX FLS7 CKT: 1
              : 60129 SPLT RK7 - 60132 WSX FLS7 CKT: 1

==============================================================================================
 867) 60850 WSX FLS8                                             PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  525      1  : ** MULTIPLE CONTINGENCY **                        0.7175  0.7172  0.0003
              : 60117 CHERRYC7 - 60132 WSX FLS7 CKT: 1
              : 60129 SPLT RK7 - 60132 WSX FLS7 CKT: 1

==============================================================================================
 868) 60224 LONG LK7                                             PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  805         : ** MULTIPLE CONTINGENCY **                        0.9093  0.9093  0.0000
              : 60187 AS KING7 - 60176 BAYTOWN7 CKT: 1
              : 60222 KOLMNLK7 - 60224 LONG LK7 CKT: 1
              : 60224 LONG LK7 - 60176 BAYTOWN7 CKT: 1

**** LOW VOLTAGE LIMITERS ELIMINATED IN ACCC #2 FILE ****

**** --HIGH-- VOLTAGE LIMITER CHANGES *****

==============================================================================================
 869) 66580 SPENCR 8                                             PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 2520 : 66563 SPENCER5 - 66580 SPENCR 8 CKT: 1           1.1115  1.1111  0.0004
  SINGLE 2521 : 66563 SPENCER5 - 66580 SPENCR 8 CKT: 2           1.1090  1.1085  0.0005
  SINGLE 247  : 34137 TRIBOJI5 - 66563 SPENCER5 CKT: 1           1.1068  1.1004  0.0064
  SINGLE 3552 : 66563 SPENCER5 - 63713 OSGOOD 5 CKT: 1           1.1043  1.1034  0.0009

==============================================================================================
 870) 34837 WELMN TP                                             PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 346  : 34207 WASHTON8 - 34837 WELMN TP CKT: 1           1.1009  1.1010 -0.0001

==============================================================================================
 871) 34838 WELLMAN                                              PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 346  : 34207 WASHTON8 - 34837 WELMN TP CKT: 1           1.1011  1.1012 -0.0001

==============================================================================================
 872) 34839 KEOTA TP                                             PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 346  : 34207 WASHTON8 - 34837 WELMN TP CKT: 1           1.1006  1.1007 -0.0001

==============================================================================================
 873) 34842 KEOTA                                                PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 346  : 34207 WASHTON8 - 34837 WELMN TP CKT: 1           1.1006  1.1007 -0.0001

==============================================================================================
 874) 66568 CRESTN 8                                             PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 2513 : 66560 CRESTON5 - 66568 CRESTN 8 CKT: 1           1.1424  1.1427 -0.0003

==============================================================================================
 875) 67170 STEGALDC                                             PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 2541 : 66584 SIDNEYW4 - 67170 STEGALDC CKT: 1           1.1379  1.1379  0.0000

==============================================================================================
 876) 67171 MBPP-1                                               PSTCNT2 PSTCNT1 PU-CHNG
```

```
-----------------------------------------------------------------------------------------------
  SINGLE 2541 : 66584 SIDNEYW4 - 67170 STEGALDC CKT: 1          1.1242  1.1242  0.0000

===============================================================================================
 877) 60264 LOON LK7                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 2968 : 60264 LOON LK7 -  6999 WTV1     CKT: 1          1.1569  1.1569  0.0000

===============================================================================================
 878) 61063 RIVER F8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 3291 : 61063 RIVER F8 - 61163 RVRFLSMG CKT: 1          1.1283  1.1284 -0.0001

===============================================================================================
 879) 63198 BUFFALOY                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 2198 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1          1.1369  1.1375 -0.0006

===============================================================================================
 880) 63199 JAMSTN1Y                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 2198 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1          1.1165  1.1171 -0.0006

===============================================================================================
 881) 63200 JAMSTN2Y                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 2198 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1          1.1165  1.1171 -0.0006

===============================================================================================
 882) 63258 BUFFALO7                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 2198 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1          1.1664  1.1670 -0.0006

===============================================================================================
 883) 63259 ALICE  7                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 2198 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1          1.1669  1.1676 -0.0007

===============================================================================================
 884) 63269 JAMSTWN7                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 2198 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1          1.1455  1.1462 -0.0007

===============================================================================================
 885) 63270 LADISH 7                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 2198 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1          1.1402  1.1409 -0.0007

===============================================================================================
 886) 63271 AVIKO  7                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 2198 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1          1.1385  1.1392 -0.0007

===============================================================================================
 887) 63272 JAMESPK7                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 2198 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1          1.1383  1.1390 -0.0007

===============================================================================================
 888) 63273 JAMETAP7                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 2198 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1          1.1386  1.1393 -0.0007
```

```
==========================================================================================
 889) 63274 JAMSDTN7                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 2198 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1              1.1383  1.1390 -0.0007

==========================================================================================
 890) 63275 NJAMES 7                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 2198 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1              1.1397  1.1404 -0.0007

==========================================================================================
 891) 63358 BUFFALO3                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 2198 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1              1.1349  1.1355 -0.0006

==========================================================================================
 892) 63369 JAMESTN3                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 2198 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1              1.1271  1.1278 -0.0007

==========================================================================================
 893) 60315 T-CRNRS7                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 2998 : 60315 T-CRNRS7 - 39706 WIEN     CKT: 1              1.1117  1.1119 -0.0002

**** HIGH VOLTAGE LIMITERS ELIMINATED IN ACCC #2 FILE ****

**** NON-CONVERGED SUMMARY FOR ACCC #1 FILE ****

SINGLE 2       6001 YANKEE 7 -  66337 WHITE2 7  CKT:  1
SINGLE 1290   60286 NOBLES 3 -  60287 NOBLES 7  CKT:  C
SINGLE 2309   66337 WHITE2 7 -  66537 WHITE  3  CKT:  P
BEN-GRC/SCL7  60143 BENTON 7 -  60146 GRANCTY7  CKT:  1
              60143 BENTON 7 -  60348 BENCTP7   CKT:  1
              60348 BENCTP7  -  60157 STCLOUD7  CKT:  1

**** NON-CONVERGED SUMMARY FOR ACCC #2 FILE ****

SINGLE 2       6001 YANKEE 7 -  66337 WHITE2 7  CKT:  1
SINGLE 1292   60286 NOBLES 3 -  60287 NOBLES 7  CKT:  C
SINGLE 2311   66337 WHITE2 7 -  66537 WHITE  3  CKT:  P
BEN-GRC/SCL7  60143 BENTON 7 -  60146 GRANCTY7  CKT:  1
              60143 BENTON 7 -  60348 BENCTP7   CKT:  1
              60348 BENCTP7  -  60157 STCLOUD7  CKT:  1
```

SUMMER OFF-PEAK (GI-0304 vs PRE GI-0304)

```
                        SUMMER OFF-PEAK (GI-0304 vs PRE GI-0304)

SCREEN RESULTS FILE NAME: SO-GI-0304-accc-sc.dat

SCREENACCC PROGRAM (VERSION: BETA-14, 08/02/02, SCS)  ----- DATE: WED, SEP 01 2004 15:12

***** ACCC FILE #1: SO07AA.GI-0303-GR2-REV-accc.out
***** ACCC DATE   : THU, AUG 05 2004   9:39

GI-0303 SU OP CASE FROM F07SUOPHX,MAPP 2002 SERIES YR-2007
SO07AA.GI-0303.SAV. ND 1950, MH 2175, MWSI 1481

ACCC FILE #1 SCANNING LIMIT/RATING:
  LOADING LIMIT   90.0% OF RATE: A

DISTRIBUTION FACTOR FILE:     temp.dfx
SUBSYSTEM DESCRIPTION FILE:   gr2.sub
MONITORED ELEMENT FILE:       gr2.mon
CONTINGENCY DESCRIPTION FILE: GR2.con

***** ACCC FILE #2: SO07AA.GI-0304-GR2-REV-accc.out
***** ACCC DATE   : FRI, AUG 06 2004   8:49

GI-0304 SU OP CASE FROM F07SUOPHX,MAPP 2002 SERIES YR-2007
SO07AA.GI-0304.SAV. ND 1950, MH 2175, MWSI 1481

ACCC FILE #2 SCANNING LIMIT/RATING:
  LOADING LIMIT   90.0% OF RATE: A

DISTRIBUTION FACTOR FILE:     temp.dfx
SUBSYSTEM DESCRIPTION FILE:   gr2.sub
MONITORED ELEMENT FILE:       gr2.mon
CONTINGENCY DESCRIPTION FILE: GR2.con


***** CRITERIA FOR COMPARING ACCC FILE #2 WITH ACCC FILE #1

  LOADING CHANGE BASED ON MINIMUM % RATING INCREASE OF: -999.00 %  AND MIN MVA INCREASE OF:    0.00 MVA

  VOLTAGE CHANGE BASED ON MINIMUM PU VOLTAGE CHANGE OF: -999.00000 PU


**** LOADING LIMITER CHANGES ****

==================================================================================================================
   1)  6001 YANKEE 7 -  6002 YANKGEN  CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 985  : 60119 LKYNKTN7 - 60279 BUFFRID7 CKT: 1   204.7   204.7   222.0   222.0    92.2    92.2     0.0
  SINGLE 994  : 60123 PIPESTN7 - 60125 PATHFDR7 CKT: 1   203.0   203.0   222.0   222.0    91.4    91.4     0.0
  BASE CASE   : **       BASE CASE      **               201.7   201.7   222.0   222.0    90.9    90.9     0.0

==================================================================================================================
   2)  6001 YANKEE 7 - 66337 WHITE2 7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 985  : 60119 LKYNKTN7 - 60279 BUFFRID7 CKT: 1   383.6   383.6   310.0   310.0   122.4   122.4     0.0
  SINGLE 3168 : 60857 SLAYTON8 - 62714 CURRIE 8 CKT: 1   328.9   .....   310.0   .....   104.1   .....   *NEW*
  SINGLE 3166 : 60856 TEPEOTA8 - 62713 LKSRHTP8 CKT: 1   328.8   .....   310.0   .....   104.0   .....   *NEW*
```

```
  SINGLE 3167 : 60856 TEPEOTA8 - 62714 CURRIE 8 CKT: 1   328.8   .....   310.0   .....   104.0   .....   *NEW*
  SINGLE 3165 : 60855 TRACYSW8 - 62741 WLNTGTP8 CKT: 1   328.3   .....   310.0   .....   103.9   .....   *NEW*
  SINGLE 1    :  6001 YANKEE 7 - 60279 BUFFRID7 CKT: 1   300.9   300.9   310.0   310.0    94.7    94.8    -0.1
  SINGLE 53   : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1   .....   328.0   .....   310.0   .....   103.8  *ELIM*
  SINGLE 2094 : 63214 BIGSTON7 - 63215 HIWY12 7 CKT: 1   .....   325.9   .....   310.0   .....   103.1  *ELIM*
  SINGLE 2196 : 63362 OAKES  4 - 67326 ELLENDL4 CKT: 1   .....   325.9   .....   310.0   .....   103.1  *ELIM*
  SINGLE 2956 : 60240 RIVRSID7 - 60008 RIVRS78G CKT: 1   .....   325.7   .....   310.0   .....   103.0  *ELIM*
  *** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

==================================================================================================================
   3)  6450 PRIMGHAR -  6460 GI0304F1 CKT:  1  **NEW** PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **                80.3   .....    88.0   .....    91.3   .....   *NEW*

==================================================================================================================
   4) 34006 LAKEFLD3 -  3400 G164     CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1003 : 60126 SPLT RK3 - 60286 NOBLES 3 CKT: C   203.0   203.0   222.0   222.0    91.5    91.5     0.0
  SINGLE 1002 : 60126 SPLT RK3 - 60131 SPLTRTB3 CKT: 1   201.9   201.9   222.0   222.0    90.9    90.9     0.0
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   201.8   201.8   222.0   222.0    90.9    90.9     0.0
  SINGLE 1009 : 60131 SPLTRTB3 - 66564 SIOUXCY3 CKT: 1   201.9   201.9   222.0   222.0    90.9    90.9     0.0
  BASE CASE   : **       BASE CASE      **               200.5   200.5   222.0   222.0    90.3    90.3     0.0

==================================================================================================================
   5) 34007 LAKEFLD5 -  6006 G262     CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **               201.5   201.5   220.0   220.0    91.6    91.6     0.0

==================================================================================================================
   6) 34008 FOX LK 5 - 34011 FOXLK53G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **                86.6    86.6    85.0    85.0   101.9   101.9     0.0
  SINGLE 28   : 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1    82.2    82.2    85.0    85.0    96.7    96.7     0.0
  SINGLE 32   : 34009 WINBAGO5 - 61932 RUTLAND5 CKT: 1    82.1    82.1    85.0    85.0    96.6    96.6     0.0

==================================================================================================================
   7) 34010 HAYWARD5 - 34013 WNBAGOS5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   250.6   248.5   167.0   167.0   160.9   159.1     1.8
  SINGLE 46   : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1   209.1   207.3   167.0   167.0   130.6   129.3     1.3
  SINGLE 429  : 34265 WALTERS8 - 34285 ALDEN J8 CKT: 1   210.4   208.7   167.0   167.0   129.4   128.2     1.2
  SINGLE 455  : 34285 ALDEN J8 - 34286 ALEAWST8 CKT: 1   209.9   208.1   167.0   167.0   129.0   127.8     1.2
  SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   205.2   203.8   167.0   167.0   128.6   127.5     1.1
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   197.7   196.4   167.0   167.0   128.0   126.7     1.3
  SINGLE 1275 : 60265 LOON TP7 - 60830 EASTWD18 CKT: P   205.9   204.3   167.0   167.0   127.9   126.7     1.2
  SINGLE 419  : 34259 WBGO  T8 - 62329 WNBGOTP8 CKT: 1   202.5   200.9   167.0   167.0   125.1   123.9     1.2
  SINGLE 41   : 34013 WNBAGOS5 - 34258 WBGOJ S8 CKT: 1   202.5   200.9   167.0   167.0   125.1   123.9     1.2
  SINGLE 418  : 34258 WBGOJ S8 - 34259 WBGO  T8 CKT: 1   202.5   200.9   167.0   167.0   125.1   123.9     1.2
  SINGLE 952  : 60107 W FARIB7 - 60265 LOON TP7 CKT: C   201.7   200.2   167.0   167.0   125.1   123.9     1.2
  SINGLE 420  : 34260 DELEAST8 - 62329 WNBGOTP8 CKT: 1   202.2   200.5   167.0   167.0   124.9   123.7     1.2
  SINGLE 35   : 34010 HAYWARD5 - 34015 LIME CK5 CKT: 1   200.0   198.5   167.0   167.0   124.9   123.6     1.3
  SINGLE 430  : 34265 WALTERS8 - 62332 CLARK  8 CKT: 1   202.1   200.4   167.0   167.0   124.8   123.6     1.2
  SINGLE 955  : 60107 W FARIB7 - 61952 S FARIB5 CKT: 1   201.3   199.6   167.0   167.0   124.8   123.6     1.2
  SINGLE 247  : 34137 TRIBOJI5 - 66563 SPENCER5 CKT: 1   200.0   199.6   167.0   167.0   124.7   124.2     0.5
  SINGLE 421  : 34260 DELEAST8 - 62333 EASTON 8 CKT: 1   201.8   200.2   167.0   167.0   124.6   123.4     1.2
  SINGLE 454  : 34284 MINNLKT8 - 62333 EASTON 8 CKT: 1   201.6   200.0   167.0   167.0   124.5   123.3     1.2
  SINGLE 453  : 34284 MINNLKT8 - 61938 WELLS    CKT: 1   201.6   200.0   167.0   167.0   124.5   123.3     1.2
  SINGLE 1002 : 60126 SPLT RK3 - 60131 SPLTRTB3 CKT: 1   199.7   198.4   167.0   167.0   124.2   123.1     1.1
  SINGLE 1009 : 60131 SPLTRTB3 - 66564 SIOUXCY3 CKT: 1   199.7   198.4   167.0   167.0   124.2   123.1     1.1
  SINGLE 1126 : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1   199.3   197.9   167.0   167.0   123.5   122.3     1.2
  SINGLE 30   : 34009 WINBAGO5 - 34257 WBGOJ N8 CKT: 1   198.4   196.7   167.0   167.0   123.2   122.0     1.2
  SINGLE 425  : 34262 BRCLYNT8 - 69042 T BRC    CKT: 1   199.9   198.1   167.0   167.0   123.2   122.0     1.2
  SINGLE 24   : 34007 LAKEFLD5 - 34137 TRIBOJI5 CKT: 1   198.3   197.9   167.0   167.0   123.1   122.7     0.4
```

SINGLE 423	: 34262 BRCLYNT8 - 34264 BRICLYN8 CKT: 1	199.4	197.7	167.0	167.0	122.9	121.7	1.2
SINGLE 1003	: 60126 SPLT RK3 - 60286 NOBLES 3 CKT: C	197.6	196.0	167.0	167.0	122.9	121.7	1.2
SINGLE 964	: 60110 WILMART7 - 60194 CARVRCO7 CKT: 1	198.5	197.1	167.0	167.0	122.9	121.7	1.2
SINGLE 49	: 34016 EMERY 5 - 34017 CGORDO_5 CKT: 1	198.0	196.3	167.0	167.0	122.6	121.2	1.4
SINGLE 428	: 34264 BRICLYN8 - 34265 WALTERS8 CKT: 1	198.8	197.1	167.0	167.0	122.6	121.4	1.2
SINGLE 415	: 34256 WBGO 8 - 34257 WBGOJ N8 CKT: 1	199.0	197.5	167.0	167.0	122.5	121.4	1.1
SINGLE 1274	: 60264 LOON LK7 - 61976 LOON LK8 CKT: 1	197.4	196.0	167.0	167.0	122.2	121.1	1.1
SINGLE 948	: 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1	197.1	195.7	167.0	167.0	122.0	120.8	1.2
SINGLE 1652	: 61051 STCRFL5G - 61131 LAW CRK5 CKT: C	196.7	.....	167.0	.....	121.8	.....	*NEW*
SINGLE 1140	: 60196 CHI 7 - 60920 LINDSTM7 CKT: C	196.5	195.0	167.0	167.0	121.7	120.5	1.2
SINGLE 417	: 34257 WBGOJ N8 - 34261 BL EART8 CKT: 1	196.4	195.1	167.0	167.0	121.7	120.5	1.2
SINGLE 427	: 34263 ELMORE 8 - 34307 B EARTT8 CKT: 1	196.4	195.1	167.0	167.0	121.6	120.5	1.1
SINGLE 422	: 34261 BL EART8 - 34307 B EARTT8 CKT: 1	196.4	195.1	167.0	167.0	121.6	120.5	1.1
SINGLE 109	: 34047 ANTA TP5 - 66561 DENISON5 CKT: 1	196.3	194.9	167.0	167.0	121.5	120.4	1.1
SINGLE 1197	: 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1	196.3	194.9	167.0	167.0	121.5	120.3	1.2
SINGLE 1120	: 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C	196.3	194.9	167.0	167.0	121.5	120.4	1.1
SINGLE 1121	: 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1	196.3	194.9	167.0	167.0	121.5	120.4	1.1
SINGLE 426	: 34263 ELMORE 8 - 34270 LAKOTCB8 CKT: 1	196.2	194.8	167.0	167.0	121.5	120.3	1.2
SINGLE 436	: 34270 LAKOTCB8 - 34362 LAKOTA_8 CKT: 1	196.2	194.7	167.0	167.0	121.4	120.2	1.2
SINGLE 968	: 60110 WILMART7 - 60830 EASTWD18 CKT: P	196.2	194.8	167.0	167.0	121.4	120.2	1.2
SINGLE 992	: 60122 LAWRENC7 - 60834 LAWRENC8 CKT: 1	196.0	194.7	167.0	167.0	121.4	120.3	1.1
SINGLE 163	: 34079 TRAER 5 - 34087 DYSART 5 CKT: 1	195.9	194.5	167.0	167.0	121.3	120.2	1.1
SINGLE 1157	: 60202 COON CK3 - 63030 DICKNSN3 CKT: 1	196.1	194.7	167.0	167.0	121.3	120.2	1.1
SINGLE 1376	: 60650 WILMART8 - 61155 JOHNSON8 CKT: 1	196.0	.....	167.0	.....	121.3	.....	*NEW*
SINGLE 1476	: 60813 SIBLYPK8 - 61155 JOHNSON8 CKT: 1	196.0	.....	167.0	.....	121.3	.....	*NEW*
SINGLE 416	: 34256 WBGO 8 - 34278 WILWCKT8 CKT: 1	196.6	195.0	167.0	167.0	121.3	120.2	1.1
SINGLE 1118	: 60187 AS KING7 - 60325 WILOWRV7 CKT: 1	195.9	194.5	167.0	167.0	121.2	120.1	1.1
SINGLE 432	: 34266 AMBOY 8 - 34278 WILWCKT8 CKT: 1	196.2	194.7	167.0	167.0	121.1	120.0	1.1
SINGLE 431	: 34266 AMBOY 8 - 34277 STRLNGT8 CKT: 1	195.9	194.4	167.0	167.0	120.9	119.8	1.1
BASE CASE	: ** BASE CASE **	194.8	193.3	167.0	167.0	120.4	119.3	1.1
SINGLE 463	: 34290 FARMSTD8 - 34291 ALEA E8 CKT: 1	193.8	.....	167.0	.....	120.1	.....	*NEW*
SINGLE 465	: 34292 ALEA19 8 - 69054 SOUTH SH CKT: 1	193.5	192.1	167.0	167.0	119.9	118.8	1.1
SINGLE 468	: 34294 HAYWD#28 - 69054 SOUTH SH CKT: 1	193.4	192.0	167.0	167.0	119.9	118.7	1.2
SINGLE 530	: 34377 MANLY 8 - 34378 MANLYT 8 CKT: 1	193.1	191.5	167.0	167.0	119.9	118.7	1.2
SINGLE 180	: 34091 ARNOLD 5 - 34534 ARNOLD Y CKT: 1	193.5	192.1	167.0	167.0	119.8	118.7	1.1
SINGLE 181	: 34093 ARNOLD 3 - 34534 ARNOLD Y CKT: 1	193.5	192.1	167.0	167.0	119.8	118.7	1.1
SINGLE 1042	: 60145 FRANKLN7 - 61954 REDFLST7 CKT: P	193.7	192.3	167.0	167.0	119.8	118.6	1.2
SINGLE 531	: 34378 MANLYT 8 - 34379 LMCK W 8 CKT: 1	193.0	191.4	167.0	167.0	119.8	118.7	1.1
SINGLE 1130	: 60193 BLUE LK7 - 61476 BLL TR5Y CKT: 5	193.7	192.2	167.0	167.0	119.7	118.5	1.2
SINGLE 234	: 34129 LIBERTY5 - 34135 DUNDEE 5 CKT: 1	193.8	192.3	167.0	167.0	119.7	118.5	1.2
SINGLE 949	: 60105 PR ISLD3 - 60236 REDROCK3 CKT: 1	193.8	192.2	167.0	167.0	119.7	118.5	1.2
SINGLE 1053	: 60148 MINVALY7 - 61954 REDFLST7 CKT: P	193.5	192.1	167.0	167.0	119.7	118.5	1.2
SINGLE 950	: 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2	193.7	192.2	167.0	167.0	119.7	118.5	1.2
SINGLE 43	: 34014 ADAMS 5 - 34306 ADAMS 8 CKT: 1	193.8	192.2	167.0	167.0	119.7	118.6	1.1
SINGLE 552	: 34395 EMERY S8 - 34403 CL LAKT8 CKT: 1	193.7	192.2	167.0	167.0	119.7	118.5	1.2
SINGLE 956	: 60108 WILMART3 - 60110 WILMART7 CKT: 1	193.6	192.2	167.0	167.0	119.7	118.6	1.1
SINGLE 957	: 60108 WILMART3 - 60110 WILMART7 CKT: 2	193.5	192.2	167.0	167.0	119.7	118.6	1.1
SINGLE 441	: 34275 WELCOMT8 - 61942 10TH STR CKT: 1	193.6	192.1	167.0	167.0	119.6	118.5	1.1
SINGLE 464	: 34291 ALEA E8 - 34293 HAYWD#18 CKT: 1	192.6	191.0	167.0	167.0	119.6	118.4	1.2
SINGLE 462	: 34289 FAIRGNT8 - 34294 HAYWD#28 CKT: 1	193.6	192.1	167.0	167.0	119.6	118.4	1.2
SINGLE 1131	: 60193 BLUE LK7 - 61477 BLL TR6Y CKT: 6	193.7	192.2	167.0	167.0	119.6	118.5	1.1
SINGLE 5	: 6012 G253INT - 34003 MAGNLIA5 CKT: 1	193.4	191.9	167.0	167.0	119.5	118.3	1.2
SINGLE 39	: 34012 FOXLAKE8 - 34275 WELCOMT8 CKT: 1	193.5	192.0	167.0	167.0	119.5	118.4	1.1
SINGLE 974	: 60114 ELM CRK3 - 60151 MNTCELO3 CKT: 1	193.5	192.0	167.0	167.0	119.5	118.4	1.1
SINGLE 10	: 34003 MAGNLIA5 - 34004 ELK 5 CKT: 1	193.4	191.9	167.0	167.0	119.5	118.4	1.1
SINGLE 60	: 34020 HAZL S 5 - 34135 DUNDEE 5 CKT: 1	193.2	191.7	167.0	167.0	119.2	118.1	1.1
SINGLE 42	: 34014 ADAMS 5 - 34015 LIME CK5 CKT: 1	192.3	190.8	167.0	167.0	118.9	117.8	1.1
SINGLE 1287	: 60284 WATOWAN7 - 60380 MARTINC7 CKT: P	192.3	190.7	167.0	167.0	118.8	117.7	1.1
SINGLE 1288	: 60284 WATOWAN7 - 60934 WATOWAN8 CKT: P	192.3	.....	167.0	.....	118.8	.....	*NEW*
SINGLE 1359	: 60331 LKFLDXL3 - 60380 MARTINC7 CKT: P	192.3	.....	167.0	.....	118.8	.....	*NEW*
SINGLE 37	: 34010 HAYWARD5 - 34294 HAYWD#28 CKT: 1	190.8	189.1	167.0	167.0	118.5	117.3	1.2
SINGLE 36	: 34010 HAYWARD5 - 34293 HAYWD#18 CKT: 1	190.9	189.2	167.0	167.0	118.5	117.3	1.2
SINGLE 1292	: 60287 NOBLES 7 - 60369 FENTON 7 CKT: C	191.6	.....	167.0	.....	118.1	.....	*NEW*

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SINGLE 941  : 60015 ANSON CG - 61475 ANS TR2Y CKT: 2   189.7   188.1   167.0   167.0   116.8   115.7     1.1
SINGLE 940  : 60015 ANSON CG - 60129 SPLT RK7 CKT: 1   189.7   188.1   167.0   167.0   116.8   115.7     1.1
SINGLE 22   : 34007 LAKEFLD5 - 34008 FOX LK 5 CKT: 1   189.0   187.7   167.0   167.0   116.7   115.6     1.1
SINGLE 23   : 34007 LAKEFLD5 - 34008 FOX LK 5 CKT: 2   186.9   185.4   167.0   167.0   116.0   114.9     1.1
SINGLE 1001 : 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1   188.2   186.5   167.0   167.0   115.7   114.5     1.2
SINGLE 1008 : 60130 SPLTRTA3 - 66537 WHITE  3 CKT: 1   188.2   186.5   167.0   167.0   115.7   114.5     1.2
SINGLE 20   : 34006 LAKEFLD3 - 60286 NOBLES 3 CKT: C   185.7   184.1   167.0   167.0   114.1   112.9     1.2
SINGLE 34   : 34010 HAYWARD5 - 34014 ADAMS  5 CKT: 1   182.4   181.1   167.0   167.0   112.5   111.5     1.0
SINGLE 31   : 34009 WINBAGO5 - 60120 BLUEETA5 CKT: 1   170.1   168.4   167.0   167.0   107.9   106.4     1.5
SINGLE 961  : 60109 WILMART5 - 60120 BLUEETA5 CKT: 1   169.5   167.5   167.0   167.0   107.8   106.3     1.5
SINGLE 960  : 60109 WILMART5 - 60110 WILMART7 CKT: 1   170.0   168.2   167.0   167.0   107.6   106.2     1.4
SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1   174.9   173.1   167.0   167.0   106.0   104.8     1.2
SINGLE 6    :  6012 G253INT  - 60128 SPLT RK5 CKT: 1   .....   192.3   .....   167.0   .....   118.6  *ELIM*
SINGLE 16   : 34006 LAKEFLD3 - 34007 LAKEFLD5 CKT: 1   .....   192.3   .....   167.0   .....   118.5  *ELIM*
SINGLE 17   : 34006 LAKEFLD3 - 34007 LAKEFLD5 CKT: 2   .....   192.3   .....   167.0   .....   118.5  *ELIM*
SINGLE 53   : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1   .....   182.0   .....   167.0   .....   111.9  *ELIM*
SINGLE 149  : 34068 M-TOWN 5 - 34079 TRAER  5 CKT: 1   .....   194.5   .....   167.0   .....   120.1  *ELIM*
SINGLE 1067 : 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C   .....   194.4   .....   167.0   .....   120.1  *ELIM*
SINGLE 1112 : 60186 AS KING3 - 60221 KOLMNLK3 CKT: 1   .....   194.3   .....   167.0   .....   120.0  *ELIM*
*** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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  8) 34015 LIME CK5 - 34016 EMERY  5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   251.6   247.2   200.0   200.0   123.3   121.2     2.1
SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1   245.3   241.8   200.0   200.0   120.3   118.5     1.8
SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   227.8   224.0   200.0   200.0   115.4   113.4     2.0
SINGLE 33   : 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1   233.1   229.5   200.0   200.0   114.2   112.5     1.7
SINGLE 32   : 34009 WINBAGO5 - 61932 RUTLAND5 CKT: 1   230.3   226.7   200.0   200.0   112.9   111.1     1.8
SINGLE 28   : 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1   222.3   218.7   200.0   200.0   109.0   107.2     1.8
SINGLE 50   : 34016 EMERY  5 - 34395 EMERY S8 CKT: 1   219.9   216.5   200.0   200.0   107.8   106.1     1.7
SINGLE 51   : 34016 EMERY  5 - 34396 EMERY N8 CKT: 1   219.9   216.5   200.0   200.0   107.8   106.1     1.7
SINGLE 550  : 34393 MCHW1068 - 34395 EMERY S8 CKT: 1   213.5   210.3   200.0   200.0   107.7   106.0     1.7
SINGLE 539  : 34384 MCARMOR8 - 34396 EMERY N8 CKT: 1   208.2   205.0   200.0   200.0   104.8   103.1     1.7
SINGLE 155  : 34072 FRNKLIN7 - 34077 IA FALS7 CKT: 1   210.0   206.5   200.0   200.0   102.9   101.2     1.7
SINGLE 156  : 34072 FRNKLIN7 - 34571 FRNKLN_Y CKT: 1   210.0   206.5   200.0   200.0   102.9   101.2     1.7
SINGLE 541  : 34385 MC NWT 8 - 34387 MCLPCSS8 CKT: 1   208.7   205.3   200.0   200.0   102.3   100.6     1.7
SINGLE 21   : 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1   208.6   204.3   200.0   200.0   102.3   100.1     2.2
SINGLE 160  : 34075 ELDORA 7 - 34077 IA FALS7 CKT: 1   207.6   204.1   200.0   200.0   101.8   100.1     1.7
SINGLE 20   : 34006 LAKEFLD3 - 60286 NOBLES 3 CKT: C   206.9   203.7   200.0   200.0   101.4    99.9     1.5
SINGLE 955  : 60107 W FARIB7 - 61952 S FARIB5 CKT: 1   206.8   203.5   200.0   200.0   101.4    99.7     1.7
SINGLE 161  : 34075 ELDORA 7 - 34169 WELSBGT7 CKT: 1   206.6   203.2   200.0   200.0   101.3    99.6     1.7
SINGLE 177  : 34089 VINTON 5 - 34091 ARNOLD 5 CKT: 1   206.7   203.3   200.0   200.0   101.3    99.6     1.7
SINGLE 961  : 60109 WILMART5 - 60120 BLUEETA5 CKT: 1   206.6   203.4   200.0   200.0   101.3    99.7     1.6
SINGLE 960  : 60109 WILMART5 - 60110 WILMART7 CKT: 1   206.4   203.1   200.0   200.0   101.2    99.6     1.6
SINGLE 31   : 34009 WINBAGO5 - 60120 BLUEETA5 CKT: 1   206.4   203.1   200.0   200.0   101.2    99.6     1.6
SINGLE 176  : 34087 DYSART 5 - 34089 VINTON 5 CKT: 1   206.2   202.8   200.0   200.0   101.1    99.4     1.7
SINGLE 552  : 34395 EMERY S8 - 34403 CL LAKT8 CKT: 1   206.0   202.7   200.0   200.0   101.0    99.3     1.7
SINGLE 146  : 34066 M-TOWN 7 - 34169 WELSBGT7 CKT: 1   206.1   202.7   200.0   200.0   101.0    99.4     1.6
SINGLE 543  : 34387 MCLPCSS8 - 34389 MC LPC 8 CKT: 1   205.6   202.2   200.0   200.0   100.8    99.1     1.7
SINGLE 549  : 34393 MCHW1068 - 34394 MC 5DEL8 CKT: 1   205.5   202.1   200.0   200.0   100.7    99.1     1.6
SINGLE 60   : 34020 HAZL S 5 - 34135 DUNDEE 5 CKT: 1   205.5   202.2   200.0   200.0   100.7    99.1     1.6
SINGLE 556  : 34401 6THAVET8 - 34403 CL LAKT8 CKT: 1   205.2   201.9   200.0   200.0   100.6    99.0     1.6
SINGLE 114  : 34051 TOLEDO 7 - 34066 M-TOWN 7 CKT: 1   205.3   201.9   200.0   200.0   100.6    99.0     1.6
SINGLE 429  : 34265 WALTERS8 - 34285 ALDEN J8 CKT: 1   205.2   201.9   200.0   200.0   100.6    99.0     1.6
SINGLE 455  : 34285 ALDEN J8 - 34286 ALEAWST8 CKT: 1   205.0   201.7   200.0   200.0   100.5    98.9     1.6
SINGLE 952  : 60107 W FARIB7 - 60265 LOON TP7 CKT: C   204.9   201.5   200.0   200.0   100.4    98.8     1.6
SINGLE 145  : 34066 M-TOWN 7 - 34085 BLRSTWN7 CKT: 1   204.9   201.4   200.0   200.0   100.4    98.7     1.7
SINGLE 300  : 34185 POWESHK5 - 34191 REASNOR5 CKT: 1   204.7   201.3   200.0   200.0   100.3    98.7     1.6
SINGLE 173  : 34084 PARNEL 5 - 34185 POWESHK5 CKT: 1   204.5   201.1   200.0   200.0   100.3    98.6     1.7
SINGLE 557  : 34401 6THAVET8 - 34411 CLGRTLK8 CKT: 1   204.5   201.2   200.0   200.0   100.3    98.6     1.7
SINGLE 23   : 34007 LAKEFLD5 - 34008 FOX LK 5 CKT: 2   204.5   201.1   200.0   200.0   100.2    98.6     1.6
SINGLE 115  : 34051 TOLEDO 7 - 34083 BL.PLN.7 CKT: 1   204.3   201.0   200.0   200.0   100.2    98.5     1.7
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SINGLE 163	: 34079 TRAER 5 - 34087 DYSART 5 CKT: 1	204.3	200.8	200.0	200.0	100.1	98.4	1.7	
SINGLE 560	: 34405 CLNNGST8 - 34406 CLNNG S8 CKT: 1	204.2	200.9	200.0	200.0	100.1	98.5	1.6	
SINGLE 553	: 34396 EMERY N8 - 34405 CLNNGST8 CKT: 1	204.2	200.9	200.0	200.0	100.1	98.5	1.6	
SINGLE 234	: 34129 LIBERTY5 - 34135 DUNDEE 5 CKT: 1	204.3	201.0	200.0	200.0	100.1	98.5	1.6	
SINGLE 418	: 34258 WBGOJ S8 - 34259 WBGO T8 CKT: 1	203.9	200.6	200.0	200.0	100.0	98.3	1.7	
SINGLE 419	: 34259 WBGO T8 - 62329 WNBGOTP8 CKT: 1	203.9	200.6	200.0	200.0	100.0	98.3	1.7	
SINGLE 41	: 34013 WNBAGOS5 - 34258 WBGOJ S8 CKT: 1	203.9	200.6	200.0	200.0	100.0	98.3	1.7	
SINGLE 175	: 34085 BLRSTWN7 - 34099 PRAR CK7 CKT: 1	204.0	200.7	200.0	200.0	100.0	98.4	1.6	
SINGLE 561	: 34406 CLNNG S8 - 34407 NNG MTR8 CKT: 1	204.1	200.8	200.0	200.0	100.0	98.4	1.6	
SINGLE 948	: 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1	203.9	200.6	200.0	200.0	100.0	98.3	1.7	
SINGLE 420	: 34260 DELEAST8 - 62329 WNBGOTP8 CKT: 1	203.8	200.5	200.0	200.0	99.9	98.3	1.6	
SINGLE 22	: 34007 LAKEFLD5 - 34008 FOX LK 5 CKT: 1	203.9	200.5	200.0	200.0	99.9	98.3	1.6	
SINGLE 430	: 34265 WALTERS8 - 62332 CLARK 8 CKT: 1	203.8	200.5	200.0	200.0	99.9	98.3	1.6	
SINGLE 9	: 6450 PRIMGHAR - 66566 SIOUXCY5 CKT: 1	203.7	.....	200.0	.....	99.9	.....	*NEW*	
SINGLE 974	: 60114 ELM CRK3 - 60151 MNTCELO3 CKT: 1	203.7	200.5	200.0	200.0	99.9	98.3	1.6	
SINGLE 71	: 34028 LORE 5 - 34129 LIBERTY5 CKT: 1	203.6	200.3	200.0	200.0	99.8	98.2	1.6	
SINGLE 421	: 34260 DELEAST8 - 62333 EASTON 8 CKT: 1	203.7	200.3	200.0	200.0	99.8	98.2	1.6	
SINGLE 118	: 34053 MT VERN5 - 34109 BERTRAM5 CKT: 1	203.6	200.3	200.0	200.0	99.8	98.2	1.6	
SINGLE 30	: 34009 WINBAGO5 - 34257 WBGOJ N8 CKT: 1	203.5	200.2	200.0	200.0	99.8	98.1	1.7	
SINGLE 453	: 34284 MINNLKT8 - 61938 WELLS CKT: 1	203.6	200.3	200.0	200.0	99.8	98.2	1.6	
SINGLE 454	: 34284 MINNLKT8 - 62333 EASTON 8 CKT: 1	203.6	200.3	200.0	200.0	99.8	98.2	1.6	
SINGLE 172	: 34083 BL.PLN.7 - 34095 STON PT7 CKT: 1	203.5	200.2	200.0	200.0	99.8	98.1	1.7	
SINGLE 942	: 60100 FORBECA2 - 60101 FORBES 2 CKT: 1	203.4	200.0	200.0	200.0	99.7	98.0	1.7	
SINGLE 292	: 34182 WAPELLO5 - 34183 JEFF 5 CKT: 1	203.5	200.1	200.0	200.0	99.7	98.1	1.6	
SINGLE 119	: 34053 MT VERN5 - 34127 WYOMING5 CKT: 1	203.3	200.0	200.0	200.0	99.7	98.0	1.7	
SINGLE 153	: 34068 M-TOWN 5 - 34528 M-TOWN Y CKT: 1	203.3	199.9	200.0	200.0	99.6	98.0	1.6	
SINGLE 143	: 34065 NEVADA 7 - 34070 NEVADAT7 CKT: 1	203.2	199.9	200.0	200.0	99.6	98.0	1.6	
SINGLE 147	: 34066 M-TOWN 7 - 34528 M-TOWN Y CKT: 1	203.2	199.9	200.0	200.0	99.6	98.0	1.6	
SINGLE 45	: 34014 ADAMS 5 - 60102 ADAMS 3 CKT: P	197.6	194.5	200.0	200.0	99.3	97.7	1.6	
SINGLE 180	: 34091 ARNOLD 5 - 34534 ARNOLD Y CKT: 1	197.2	.....	200.0	.....	99.1	.....	*NEW*	
SINGLE 181	: 34093 ARNOLD 3 - 34534 ARNOLD Y CKT: 1	197.2	.....	200.0	.....	99.1	.....	*NEW*	
BASE CASE	: ** BASE CASE **	202.1	198.8	200.0	200.0	99.1	97.5	1.6	
SINGLE 479	: 34306 ADAMS 8 - 34312 STWRTVL8 CKT: 1	201.1	197.8	200.0	200.0	98.6	96.9	1.7	
SINGLE 949	: 60105 PR ISLD3 - 60236 REDROCK3 CKT: 1	201.1	197.8	200.0	200.0	98.6	97.0	1.6	
SINGLE 950	: 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2	201.1	197.8	200.0	200.0	98.6	96.9	1.7	
SINGLE 52	: 34017 CGORDO_5 - 34139 HANCOCK5 CKT: 1	201.1	.....	200.0	.....	98.6	.....	*NEW*	
SINGLE 478	: 34305 GLENVIL8 - 34375 NORWOOD8 CKT: 1	201.1	197.8	200.0	200.0	98.6	96.9	1.7	
SINGLE 709	: 34606 GRNL CT8 - 34607 GRNCTTP8 CKT: 1	201.0	197.7	200.0	200.0	98.5	96.9	1.6	
SINGLE 457	: 34286 ALEAWST8 - 34288 ALEA NW8 CKT: 1	200.9	197.6	200.0	200.0	98.5	96.9	1.6	
SINGLE 466	: 34293 HAYWD#18 - 34305 GLENVIL8 CKT: 1	200.8	197.5	200.0	200.0	98.4	96.8	1.6	
SINGLE 415	: 34256 WBGO 8 - 34257 WBGOJ N8 CKT: 1	200.8	197.5	200.0	200.0	98.4	96.8	1.6	
SINGLE 527	: 34371 RICE 8 - 61980 RICE 5 CKT: 1	200.5	197.2	200.0	200.0	98.3	96.7	1.6	
SINGLE 462	: 34289 FAIRGNT8 - 34294 HAYWD#28 CKT: 1	200.3	197.0	200.0	200.0	98.2	96.6	1.6	
SINGLE 43	: 34014 ADAMS 5 - 34306 ADAMS 8 CKT: 1	200.1	196.8	200.0	200.0	98.1	96.5	1.6	
SINGLE 570	: 34417 DECORAH8 - 34428 MADISNT8 CKT: 1	200.0	196.7	200.0	200.0	98.1	96.4	1.7	
SINGLE 566	: 34415 CRESCO 8 - 34416 IPWCRST8 CKT: 1	200.0	196.7	200.0	200.0	98.0	96.4	1.6	
SINGLE 567	: 34416 IPWCRST8 - 34428 MADISNT8 CKT: 1	200.0	196.7	200.0	200.0	98.0	96.4	1.6	
SINGLE 53	: 34018 HAZLTON3 - 34019 HAZLTON5 CKT: 1	200.0	196.6	200.0	200.0	98.0	96.4	1.6	
SINGLE 526	: 34371 RICE 8 - 34415 CRESCO 8 CKT: 1	199.3	196.0	200.0	200.0	97.7	96.1	1.6	
SINGLE 54	: 34018 HAZLTON3 - 34020 HAZL S 5 CKT: 2	199.1	195.6	200.0	200.0	97.6	95.9	1.7	
SINGLE 534	: 34379 LMCK W 8 - 34392 MCNEAST8 CKT: 1	198.2	194.9	200.0	200.0	97.2	95.5	1.7	
SINGLE 48	: 34015 LIME CK5 - 34380 LMCK E 8 CKT: 1	198.1	194.7	200.0	200.0	97.1	95.5	1.6	
SINGLE 47	: 34015 LIME CK5 - 34379 LMCK W 8 CKT: 1	197.7	194.3	200.0	200.0	96.9	95.2	1.7	
SINGLE 24	: 34007 LAKEFLD5 - 34137 TRIBOJI5 CKT: 1	196.5	191.4	200.0	200.0	96.3	93.8	2.5	
SINGLE 62	: 34021 LANSINGW - 34022 LANSING5 CKT: 1	195.7	192.4	200.0	200.0	95.9	94.3	1.6	
SINGLE 34	: 34010 HAYWARD5 - 34014 ADAMS 5 CKT: 1	191.0	188.0	200.0	200.0	95.9	94.3	1.6	
SINGLE 247	: 34137 TRIBOJI5 - 66563 SPENCER5 CKT: 1	188.0	183.2	200.0	200.0	94.3	91.8	2.5	
SINGLE 535	: 34380 LMCK E 8 - 34390 MCNWCSS8 CKT: 1	189.9	186.5	200.0	200.0	93.1	91.4	1.7	
SINGLE 49	: 34016 EMERY 5 - 34017 CGORDO_5 CKT: 1	185.2	183.7	200.0	200.0	90.8	90.0	0.8	
SINGLE 107	: 34047 ANTA TP5 - 66561 DENISON5 CKT: 1	.....	197.8	.....	200.0	.....	96.9	*ELIM*	
SINGLE 242	: 34136 TRIBOJI8 - 34906 FLYCLD 8 CKT: 1	.....	197.8	.....	200.0	.....	97.0	*ELIM*	
SINGLE 999	: 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1	.....	191.7	.....	200.0	.....	93.9	*ELIM*	
SINGLE 1000	: 60126 SPLT RK3 - 60131 SPLTRTB3 CKT: 1	.....	183.0	.....	200.0	.....	91.8	*ELIM*	

*** ONLY THE FIRST 100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

9) 34016 EMERY 5 - 64252 FLOYD 5 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 56 : 34018 HAZLTON3 - 60102 ADAMS 3 CKT: 1	273.0	271.3	217.0	217.0	134.5	133.3	1.2
SINGLE 46 : 34015 LIME CK5 - 34016 EMERY 5 CKT: 1	256.7	254.8	217.0	217.0	123.9	122.7	1.2
SINGLE 42 : 34014 ADAMS 5 - 34015 LIME CK5 CKT: 1	241.1	239.4	217.0	217.0	115.4	114.3	1.1
SINGLE 2718 : 34016 EMERY 5 - 63774 SHEFFLD5 CKT: 1	255.3	253.5	217.0	217.0	115.4	114.5	0.9
SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1	232.0	230.6	217.0	217.0	111.3	110.4	0.9
SINGLE 163 : 34079 TRAER 5 - 34087 DYSART 5 CKT: 1	231.6	230.0	217.0	217.0	110.8	109.8	1.0
SINGLE 35 : 34010 HAYWARD5 - 34015 LIME CK5 CKT: 1	244.8	242.7	217.0	217.0	110.6	109.6	1.0
SINGLE 151 : 34068 M-TOWN 5 - 34079 TRAER 5 CKT: 1	230.8	229.2	217.0	217.0	110.3	109.4	0.9
SINGLE 155 : 34072 FRNKLIN7 - 34077 IA FALS7 CKT: 1	230.6	229.0	217.0	217.0	110.1	109.1	1.0
SINGLE 156 : 34072 FRNKLIN7 - 34571 FRNKLN_Y CKT: 1	230.6	229.0	217.0	217.0	110.1	109.1	1.0
SINGLE 2707 : 34010 HAYWARD5 - 61984 AUSTIN 5 CKT: 1	243.5	241.4	217.0	217.0	110.0	109.1	0.9
SINGLE 54 : 34018 HAZLTON3 - 34020 HAZL S 5 CKT: 2	228.2	226.7	217.0	217.0	109.5	108.6	0.9
SINGLE 552 : 34395 EMERY S8 - 34403 CL LAKT8 CKT: 1	242.0	240.0	217.0	217.0	109.3	108.4	0.9
SINGLE 546 : 34390 MCNWCSS8 - 34397 GENFODT8 CKT: 1	241.2	239.2	217.0	217.0	109.0	108.1	0.9
SINGLE 556 : 34401 6THAVET8 - 34403 CL LAKT8 CKT: 1	241.2	239.3	217.0	217.0	109.0	108.1	0.9
SINGLE 161 : 34075 ELDORA 7 - 34169 WELSBGT7 CKT: 1	241.1	239.1	217.0	217.0	108.9	108.0	0.9
SINGLE 34 : 34010 HAYWARD5 - 34014 ADAMS 5 CKT: 1	240.8	238.8	217.0	217.0	108.8	107.9	0.9
SINGLE 53 : 34018 HAZLTON3 - 34019 HAZLTON5 CKT: 1	228.0	226.4	217.0	217.0	108.7	107.8	0.9
SINGLE 557 : 34401 6THAVET8 - 34411 CLGRTLK8 CKT: 1	240.5	238.6	217.0	217.0	108.7	107.8	0.9
SINGLE 553 : 34396 EMERY N8 - 34405 CLNNGST8 CKT: 1	240.1	238.1	217.0	217.0	108.5	107.6	0.9
SINGLE 560 : 34405 CLNNGST8 - 34406 CLNNG S8 CKT: 1	240.1	238.1	217.0	217.0	108.5	107.6	0.9
SINGLE 554 : 34397 GENFODT8 - 34398 GENFODS8 CKT: 1	239.9	238.0	217.0	217.0	108.4	107.5	0.9
SINGLE 561 : 34406 CLNNG S8 - 34407 NNG MTR8 CKT: 1	240.0	238.0	217.0	217.0	108.4	107.5	0.9
SINGLE 2704 : 34006 LAKEFLD3 - 63875 RAUN 3 CKT: 1	239.8	237.8	217.0	217.0	108.3	107.5	0.8
SINGLE 542 : 34387 MCLPCSS8 - 34388 HOLNAMW8 CKT: 1	239.7	237.8	217.0	217.0	108.3	107.4	0.9
SINGLE 526 : 34371 RICE 8 - 34415 CRESCO 8 CKT: 1	239.4	237.5	217.0	217.0	108.2	107.3	0.9
SINGLE 50 : 34016 EMERY 5 - 34395 EMERY S8 CKT: 1	239.4	237.5	217.0	217.0	108.2	107.3	0.9
SINGLE 51 : 34016 EMERY 5 - 34396 EMERY N8 CKT: 1	239.4	237.5	217.0	217.0	108.2	107.3	0.9
SINGLE 1236 : 60238 REDROCK7 - 60336 NSSJCT 7 CKT: 1	239.2	237.3	217.0	217.0	108.1	107.2	0.9
SINGLE 1361 : 60336 NSSJCT 7 - 60337 NSSTAP 7 CKT: 1	239.2	237.3	217.0	217.0	108.1	107.2	0.9
SINGLE 1362 : 60337 NSSTAP 7 - 60338 NSSTL 7 CKT: 1	239.2	237.3	217.0	217.0	108.1	107.2	0.9
SINGLE 2520 : 66565 SIOUXCY4 - 66567 DENISON4 CKT: 1	239.2	237.3	217.0	217.0	108.1	107.2	0.9
SINGLE 550 : 34393 MCHW1068 - 34395 EMERY S8 CKT: 1	239.3	237.4	217.0	217.0	108.1	107.3	0.8
SINGLE 120 : 34054 GR JCT 5 - 34058 PERRY 5 CKT: 1	239.3	237.4	217.0	217.0	108.1	107.2	0.9
SINGLE 547 : 34391 HOLNAME8 - 34397 GENFODT8 CKT: 1	239.2	237.3	217.0	217.0	108.1	107.2	0.9
SINGLE 159 : 34074 WELSBRG7 - 34530 WELSBRGY CKT: 1	226.8	.....	217.0	.....	108.0	.....	*NEW*
SINGLE 152 : 34068 M-TOWN 5 - 34179 JASPER 5 CKT: 1	239.0	.....	217.0	.....	108.0	.....	*NEW*
SINGLE 109 : 34047 ANTA TP5 - 66561 DENISON5 CKT: 1	239.1	237.1	217.0	217.0	108.0	107.1	0.9
SINGLE 117 : 34052 AMES 7 - 34076 BNE JCT7 CKT: 1	239.1	237.2	217.0	217.0	108.0	107.1	0.9
SINGLE 1764 : 62123 WOODCRT8 - 62132 PRKWOOD8 CKT: 1	239.0	237.0	217.0	217.0	108.0	107.1	0.9
SINGLE 2513 : 66561 DENISON5 - 66567 DENISON4 CKT: 1	239.1	237.1	217.0	217.0	108.0	107.1	0.9
SINGLE 158 : 34074 WELSBRG7 - 34169 WELSBGT7 CKT: 1	226.8	.....	217.0	.....	108.0	.....	*NEW*
SINGLE 566 : 34415 CRESCO 8 - 34416 IPWCRST8 CKT: 1	239.0	237.1	217.0	217.0	108.0	107.1	0.9
SINGLE 567 : 34416 IPWCRST8 - 34428 MADISNT8 CKT: 1	239.0	237.1	217.0	217.0	108.0	107.1	0.9
SINGLE 570 : 34417 DECORAH8 - 34428 MADISNT8 CKT: 1	239.0	237.0	217.0	217.0	108.0	107.1	0.9
SINGLE 540 : 34385 MC NWT 8 - 34386 MC NW 8 CKT: 1	239.1	237.1	217.0	217.0	108.0	107.1	0.9
SINGLE 116 : 34052 AMES 7 - 34070 NEVADAT7 CKT: 1	238.9	.....	217.0	.....	107.9	.....	*NEW*
SINGLE 9 : 6450 PRIMGHAR - 66566 SIOUXCY5 CKT: 1	238.9	.....	217.0	.....	107.9	.....	*NEW*
SINGLE 146 : 34066 M-TOWN 7 - 34169 WELSBGT7 CKT: 1	226.2	224.7	217.0	217.0	107.8	107.0	0.8
SINGLE 74 : 34029 SALEM 3 - 34030 SALEM 5 CKT: 1	226.1	.....	217.0	.....	107.6	.....	*NEW*
SINGLE 75 : 34029 SALEM 3 - 34036 ROCK CK3 CKT: 1	226.1	.....	217.0	.....	107.6	.....	*NEW*
SINGLE 180 : 34091 ARNOLD 5 - 34534 ARNOLD Y CKT: 1	225.2	223.7	217.0	217.0	107.5	106.6	0.9
SINGLE 181 : 34093 ARNOLD 3 - 34534 ARNOLD Y CKT: 1	225.2	223.7	217.0	217.0	107.5	106.6	0.9
BASE CASE : ** BASE CASE **	237.9	236.0	217.0	217.0	107.5	106.6	0.9
SINGLE 179 : 34091 ARNOLD 5 - 34111 FAIRFAX5 CKT: 1	236.8	234.9	217.0	217.0	107.0	106.1	0.9
SINGLE 535 : 34380 LMCK E 8 - 34390 MCNWCSS8 CKT: 1	236.7	234.8	217.0	217.0	107.0	106.1	0.9
SINGLE 119 : 34053 MT VERN5 - 34127 WYOMING5 CKT: 1	236.8	234.9	217.0	217.0	107.0	106.1	0.9
SINGLE 2462 : 66507 FTTHOMP4 - 66541 BIGBND24 CKT: 1	236.9	235.0	217.0	217.0	107.0	106.1	0.9

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SINGLE 24   : 34007 LAKEFLD5 - 34137 TRIBOJI5 CKT: 1   236.8   234.5   217.0   217.0   107.0   105.9     1.1
SINGLE 1292 : 60287 NOBLES 7 - 60369 FENTON 7 CKT: C   236.7   234.8   217.0   217.0   106.9   106.1     0.8
SINGLE 2700 :  6001 YANKEE 7 -  6003 G176     CKT: 1   236.6   234.6   217.0   217.0   106.9   106.0     0.9
SINGLE 118  : 34053 MT VERN5 - 34109 BERTRAM5 CKT: 1   236.6   234.6   217.0   217.0   106.9   106.0     0.9
SINGLE 960  : 60109 WILMART5 - 60110 WILMART7 CKT: 1   236.3   234.4   217.0   217.0   106.8   105.9     0.9
SINGLE 2711 : 34013 WNBAGOS5 - 69529 WINNCO 5 CKT: 1   236.3   234.4   217.0   217.0   106.8   105.9     0.9
SINGLE 31   : 34009 WINBAGO5 - 60120 BLUEETA5 CKT: 1   236.4   234.4   217.0   217.0   106.8   105.9     0.9
SINGLE 57   : 34019 HAZLTON5 - 34020 HAZL S 5 CKT: 1   236.3   234.4   217.0   217.0   106.8   105.9     0.9
SINGLE 20   : 34006 LAKEFLD3 - 60286 NOBLES 3 CKT: C   236.3   234.3   217.0   217.0   106.7   105.9     0.8
SINGLE 961  : 60109 WILMART5 - 60120 BLUEETA5 CKT: 1   236.3   234.3   217.0   217.0   106.7   105.9     0.8
SINGLE 1001 : 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1   236.2   234.2   217.0   217.0   106.7   105.8     0.9
SINGLE 1008 : 60130 SPLTRTA3 - 66537 WHITE  3 CKT: 1   236.2   234.2   217.0   217.0   106.7   105.8     0.9
SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   236.2   234.5   217.0   217.0   106.7   106.0     0.7
SINGLE 1130 : 60193 BLUE LK7 - 61476 BLL TR5Y CKT: 5   236.1   234.2   217.0   217.0   106.7   105.8     0.9
SINGLE 1131 : 60193 BLUE LK7 - 61477 BLL TR6Y CKT: 6   236.1   234.2   217.0   217.0   106.7   105.8     0.9
SINGLE 2702 :  6450 PRIMGHAR -  6460 GI0304F1 CKT: 1   235.9   .....   217.0   .....   106.6   .....   *NEW*
SINGLE 2706 : 34008 FOX LK 5 - 34011 FOXLK53G CKT: 1   236.0   234.1   217.0   217.0   106.6   105.7     0.9
SINGLE 2461 : 66507 FTTHOMP4 - 66540 BIGBND14 CKT: 1   235.6   233.7   217.0   217.0   106.5   105.6     0.9
SINGLE 247  : 34137 TRIBOJI5 - 66563 SPENCER5 CKT: 1   235.8   233.5   217.0   217.0   106.5   105.5     1.0
SINGLE 2699 :  6001 YANKEE 7 -  6002 YANKGEN  CKT: 1   235.2   233.2   217.0   217.0   106.3   105.4     0.9
SINGLE 71   : 34028 LORE   5 - 34129 LIBERTY5 CKT: 1   234.6   232.7   217.0   217.0   106.0   105.1     0.9
SINGLE 940  : 60015 ANSON CG - 60129 SPLT RK7 CKT: 1   234.6   232.7   217.0   217.0   106.0   105.1     0.9
SINGLE 941  : 60015 ANSON CG - 61475 ANS TR2Y CKT: 2   234.6   232.7   217.0   217.0   106.0   105.1     0.9
SINGLE 2703 : 34006 LAKEFLD3 -  3400 G164     CKT: 1   234.3   232.3   217.0   217.0   105.8   105.0     0.8
SINGLE 2705 : 34007 LAKEFLD5 -  6006 G262     CKT: 1   233.9   232.0   217.0   217.0   105.7   104.8     0.9
SINGLE 176  : 34087 DYSART 5 - 34089 VINTON 5 CKT: 1   222.1   220.7   217.0   217.0   105.7   104.9     0.8
SINGLE 28   : 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1   233.6   231.7   217.0   217.0   105.6   104.7     0.9
SINGLE 177  : 34089 VINTON 5 - 34091 ARNOLD 5 CKT: 1   221.7   220.3   217.0   217.0   105.5   104.7     0.8
SINGLE 234  : 34129 LIBERTY5 - 34135 DUNDEE 5 CKT: 1   233.0   231.1   217.0   217.0   105.3   104.4     0.9
SINGLE 32   : 34009 WINBAGO5 - 61932 RUTLAND5 CKT: 1   231.7   229.9   217.0   217.0   104.7   103.9     0.8
SINGLE 33   : 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1   231.0   229.1   217.0   217.0   104.4   103.5     0.9
SINGLE 2720 : 34017 CGORDO_5 - 34414 CGORDO1G CKT: 1   230.2   228.3   217.0   217.0   104.0   103.2     0.8
SINGLE 2721 : 34019 HAZLTON5 - 64250 BLKHAWK5 CKT: 1   216.3   215.0   217.0   217.0   104.0   103.2     0.8
SINGLE 60   : 34020 HAZL S 5 - 34135 DUNDEE 5 CKT: 1   229.5   227.6   217.0   217.0   103.7   102.8     0.9
SINGLE 49   : 34016 EMERY  5 - 34017 CGORDO_5 CKT: 1   228.2   227.5   217.0   217.0   103.1   102.8     0.3
SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1   226.3   224.5   217.0   217.0   102.2   101.4     0.8
SINGLE 2716 : 34016 EMERY  5 - 34911 EMERYGT2 CKT: 1   208.5   206.5   217.0   217.0    94.2    93.3     0.9
SINGLE 2715 : 34016 EMERY  5 - 34910 EMERYGT1 CKT: 1   208.5   206.5   217.0   217.0    94.2    93.3     0.9
SINGLE 53   : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1   .....   219.4   .....   217.0   .....   105.0  *ELIM*
SINGLE 2720 : 34020 HAZL S 5 - 64269 WASHBRN5 CKT: 1   .....   222.4   .....   217.0   .....   105.9  *ELIM*
SINGLE 2722 : 34021 LANSINGW - 69523 GENOA  5 CKT: 1   .....   234.8   .....   217.0   .....   106.1  *ELIM*
SINGLE 2725 : 34022 LANSING5 - 69531 POSTVIL5 CKT: 1   .....   227.0   .....   217.0   .....   108.1  *ELIM*
SINGLE 2728 : 34036 ROCK CK3 - 36382 QUAD ;   CKT: 1   .....   225.1   .....   217.0   .....   107.1  *ELIM*
SINGLE 2742 : 34054 GR JCT 5 - 63771 DRAGER 5 CKT: 1   .....   237.8   .....   217.0   .....   107.4  *ELIM*
SINGLE 2752 : 34061 BNE JCT5 - 64205 FT.DODG5 CKT: 1   .....   239.4   .....   217.0   .....   108.2  *ELIM*
SINGLE 2757 : 34066 M-TOWN 7 - 34088 M-TOWN3G CKT: 1   .....   237.2   .....   217.0   .....   107.2  *ELIM*
*** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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 10) 34020 HAZL S 5 - 34135 DUNDEE 5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 118  : 34053 MT VERN5 - 34109 BERTRAM5 CKT: 1   210.9   210.3   167.0   167.0   129.3   128.8     0.5
SINGLE 191  : 34103 MARION 7 - 34131 COGGON 7 CKT: 1   218.3   217.8   167.0   167.0   129.0   128.5     0.5
SINGLE 593  : 34431 W UNION8 - 34446 FAYETTE8 CKT: 1   211.2   210.5   167.0   167.0   128.9   128.4     0.5
SINGLE 178  : 34091 ARNOLD 5 - 34105 HIAWATA5 CKT: 1   218.1   217.5   167.0   167.0   128.8   128.3     0.5
SINGLE 119  : 34053 MT VERN5 - 34127 WYOMING5 CKT: 1   209.4   208.8   167.0   167.0   128.0   127.6     0.4
SINGLE 612  : 34446 FAYETTE8 - 34447 FAYETTJ8 CKT: 1   216.5   209.0   167.0   167.0   127.9   127.4     0.5
SINGLE 594  : 34432 WINDSOR8 - 61930 WINDSOR5 CKT: 1   215.1   .....   167.0   .....   127.1   .....   *NEW*
SINGLE 179  : 34091 ARNOLD 5 - 34111 FAIRFAX5 CKT: 1   214.9   214.3   167.0   167.0   126.9   126.4     0.5
SINGLE 580  : 34423 MONONA_8 - 69307 FARMBURG CKT: 1   214.8   214.2   167.0   167.0   126.9   126.4     0.5
SINGLE 586  : 34427 BIGSPRT8 - 34894 NATIONT8 CKT: 1   214.7   214.1   167.0   167.0   126.9   126.3     0.6
SINGLE 614  : 34447 FAYETTJ8 - 34486 MARYTAP8 CKT: 1   214.7   214.0   167.0   167.0   126.8   126.3     0.5
SINGLE 227  : 34126 MQOKETA5 - 34127 WYOMING5 CKT: 1   214.2   .....   167.0   .....   126.6   .....   *NEW*
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SINGLE 75	: 34029 SALEM 3 - 34036 ROCK CK3 CKT: 1	204.3	203.7	167.0	167.0	126.5	126.1	0.4
SINGLE 74	: 34029 SALEM 3 - 34030 SALEM 5 CKT: 1	204.1	203.8	167.0	167.0	126.3	126.0	0.3
SINGLE 189	: 34101 HIAWATA7 - 34103 MARION 7 CKT: 1	213.7	213.1	167.0	167.0	126.3	125.7	0.6
SINGLE 177	: 34089 VINTON 5 - 34091 ARNOLD 5 CKT: 1	212.0	211.3	167.0	167.0	125.9	125.3	0.6
SINGLE 77	: 34030 SALEM 5 - 34126 MQOKETA5 CKT: 1	212.8	212.2	167.0	167.0	125.6	125.1	0.5
SINGLE 76	: 34030 SALEM 5 - 34031 SO.GVW.5 CKT: 1	205.1	204.6	167.0	167.0	125.5	125.1	0.4
SINGLE 176	: 34087 DYSART 5 - 34089 VINTON 5 CKT: 1	211.3	210.6	167.0	167.0	125.4	124.9	0.5
SINGLE 92	: 34038 BVR CH 5 - 34044 ALBANY 5 CKT: 1	211.9	211.3	167.0	167.0	125.2	124.7	0.5
SINGLE 197	: 34107 BEVERLY5 - 34111 FAIRFAX5 CKT: 1	211.8	211.3	167.0	167.0	125.1	124.6	0.5
SINGLE 86	: 34036 ROCK CK3 - 34037 ROCK CK5 CKT: 1	204.4	203.9	167.0	167.0	125.1	124.6	0.5
SINGLE 236	: 34131 COGGON 7 - 34133 DUNDEE 7 CKT: 1	211.5	211.0	167.0	167.0	125.0	124.5	0.5
SINGLE 185	: 34097 6 ST 7 - 34527 6 ST Y CKT: 1	211.6	211.0	167.0	167.0	124.9	124.4	0.5
SINGLE 148	: 34067 6 ST 5 - 34091 ARNOLD 5 CKT: 1	211.6	211.0	167.0	167.0	124.9	124.4	0.5
SINGLE 149	: 34067 6 ST 5 - 34527 6 ST Y CKT: 1	211.6	211.0	167.0	167.0	124.9	124.4	0.5
SINGLE 59	: 34019 HAZLTON5 - 61930 WINDSOR5 CKT: 1	211.4	204.3	167.0	167.0	124.7	124.2	0.5
SINGLE 194	: 34106 PCI 5 - 34107 BEVERLY5 CKT: 1	211.0	210.4	167.0	167.0	124.6	124.1	0.5
SINGLE 145	: 34066 M-TOWN 7 - 34085 BLRSTWN7 CKT: 1	210.6	210.0	167.0	167.0	124.6	124.1	0.5
SINGLE 190	: 34101 HIAWATA7 - 34535 HIAWATAY CKT: 1	210.9	210.4	167.0	167.0	124.6	124.1	0.5
SINGLE 79	: 34031 SO.GVW.5 - 34032 8TH ST.5 CKT: 1	203.9	203.3	167.0	167.0	124.6	124.2	0.4
SINGLE 193	: 34105 HIAWATA5 - 34535 HIAWATAY CKT: 1	210.9	210.4	167.0	167.0	124.6	124.1	0.5
SINGLE 114	: 34051 TOLEDO 7 - 34066 M-TOWN 7 CKT: 1	210.4	209.8	167.0	167.0	124.5	124.0	0.5
SINGLE 585	: 34427 BIGSPRT8 - 34452 ELKADER8 CKT: 1	210.5	209.9	167.0	167.0	124.3	123.8	0.5
SINGLE 186	: 34099 PRAR CK7 - 34103 MARION 7 CKT: 1	203.1	202.6	167.0	167.0	124.1	123.6	0.5
SINGLE 248	: 34138 DUNDEE 8 - 34489 AURORA 8 CKT: 1	210.2	209.6	167.0	167.0	124.1	123.6	0.5
SINGLE 175	: 34085 BLRSTWN7 - 34099 PRAR CK7 CKT: 1	209.9	209.3	167.0	167.0	124.1	123.6	0.5
SINGLE 115	: 34051 TOLEDO 7 - 34083 BL.PLN.7 CKT: 1	209.7	209.1	167.0	167.0	124.0	123.5	0.5
SINGLE 619	: 34452 ELKADER8 - 34453 GARNVLO8 CKT: 1	209.9	.....	167.0	.....	124.0	.....	*NEW*
SINGLE 292	: 34182 WAPELLO5 - 34183 JEFF 5 CKT: 1	209.5	208.9	167.0	167.0	123.9	123.4	0.5
SINGLE 91	: 34038 BVR CH 5 - 34042 BVR CH65 CKT: 1	209.7	202.6	167.0	167.0	123.9	123.4	0.5
SINGLE 87	: 34037 ROCK CK5 - 34042 BVR CH65 CKT: 1	209.8	202.8	167.0	167.0	123.9	123.4	0.5
SINGLE 188	: 34099 PRAR CK7 - 34117 SUTLIFF7 CKT: 1	203.2	202.6	167.0	167.0	123.9	123.4	0.5
SINGLE 587	: 34427 BIGSPRT8 - 68738 BIGSPRNG CKT: 1	209.8	209.3	167.0	167.0	123.9	123.5	0.4
SINGLE 300	: 34185 POWESHK5 - 34191 REASNOR5 CKT: 1	209.3	208.7	167.0	167.0	123.8	123.3	0.5
SINGLE 620	: 34453 GARNVLO8 - 34454 GUTNBRG8 CKT: 1	209.7	.....	167.0	.....	123.8	.....	*NEW*
SINGLE 106	: 34044 ALBANY 5 - 34046 YORK 5 CKT: 1	209.5	208.9	167.0	167.0	123.7	123.2	0.5
SINGLE 283	: 34178 HENRYCO5 - 34183 JEFF 5 CKT: 1	209.1	208.5	167.0	167.0	123.6	123.1	0.5
SINGLE 81	: 34033 TRK RIV5 - 34465 TURK RV8 CKT: 1	209.1	208.4	167.0	167.0	123.5	123.0	0.5
SINGLE 214	: 34117 SUTLIFF7 - 34120 CALAMUS7 CKT: 1	209.2	208.6	167.0	167.0	123.5	123.0	0.5
SINGLE 621	: 34454 GUTNBRG8 - 34465 TURK RV8 CKT: 1	209.1	.....	167.0	.....	123.5	.....	*NEW*
SINGLE 78	: 34030 SALEM 5 - 34508 JULIAN 5 CKT: 1	201.4	200.9	167.0	167.0	123.0	122.6	0.4
BASE CASE	: ** BASE CASE **	208.1	207.4	167.0	167.0	122.9	122.4	0.5
SINGLE 68	: 34027 CNTRGRV5 - 34508 JULIAN 5 CKT: 1	201.2	200.7	167.0	167.0	122.8	122.4	0.4
SINGLE 626	: 34460 AMOCOIL8 - 34464 LORE E 8 CKT: 1	200.6	.....	167.0	.....	122.4	.....	*NEW*
SINGLE 583	: 34426 HAWKTAP8 - 34432 WINDSOR8 CKT: 1	207.0	206.4	167.0	167.0	122.3	121.8	0.5
SINGLE 147	: 34066 M-TOWN 7 - 34528 M-TOWN Y CKT: 1	206.9	206.3	167.0	167.0	122.3	121.8	0.5
SINGLE 153	: 34068 M-TOWN 5 - 34528 M-TOWN Y CKT: 1	206.9	206.3	167.0	167.0	122.3	121.8	0.5
SINGLE 627	: 34460 AMOCOIL8 - 34505 PEOSTA 8 CKT: 1	200.3	.....	167.0	.....	122.3	.....	*NEW*
SINGLE 235	: 34129 LIBERTY5 - 34541 LIBERTYY CKT: 1	200.5	199.9	167.0	167.0	122.2	121.7	0.5
SINGLE 232	: 34128 LIBERTY8 - 34541 LIBERTYY CKT: 1	200.5	199.9	167.0	167.0	122.2	121.7	0.5
SINGLE 584	: 34426 HAWKTAP8 - 34433 RICHFLD8 CKT: 1	207.0	206.4	167.0	167.0	122.2	121.8	0.4
SINGLE 615	: 34449 HAHN 8 - 34488 HAHNTAP8 CKT: 1	206.8	206.2	167.0	167.0	122.1	121.6	0.5
SINGLE 200	: 34109 BERTRAM5 - 34537 BERTRAMY CKT: 1	200.4	199.7	167.0	167.0	122.1	121.6	0.5
SINGLE 181	: 34093 ARNOLD 3 - 34534 ARNOLD Y CKT: 1	203.7	203.2	167.0	167.0	122.1	121.7	0.4
SINGLE 187	: 34099 PRAR CK7 - 34108 BERTRAM7 CKT: 1	200.4	199.7	167.0	167.0	122.1	121.6	0.5
SINGLE 180	: 34091 ARNOLD 5 - 34534 ARNOLD Y CKT: 1	203.7	203.2	167.0	167.0	122.1	121.7	0.4
SINGLE 198	: 34108 BERTRAM7 - 34537 BERTRAMY CKT: 1	200.4	199.7	167.0	167.0	122.1	121.6	0.5
SINGLE 616	: 34450 GREELYT8 - 34451 GREELEY8 CKT: 1	206.5	.....	167.0	.....	121.9	.....	*NEW*
SINGLE 66	: 34026 ASBURY 5 - 34027 CNTRGRV5 CKT: 1	199.7	199.2	167.0	167.0	121.8	121.4	0.4
SINGLE 629	: 34461 HOLYCRS8 - 34499 HOLYCR_8 CKT: 1	199.8	.....	167.0	.....	121.8	.....	*NEW*
SINGLE 618	: 34450 GREELYT8 - 34521 GRELYTP8 CKT: 1	206.1	.....	167.0	.....	121.7	.....	*NEW*
SINGLE 105	: 34044 ALBANY 5 - 34045 ALBANY 6 CKT: 1	206.2	199.3	167.0	167.0	121.7	121.2	0.5
SINGLE 628	: 34461 HOLYCRS8 - 34498 BANKSTO8 CKT: 1	199.6	.....	167.0	.....	121.7	.....	*NEW*
SINGLE 625	: 34459 EPWORTH8 - 34503 PEOSTAT8 CKT: 1	199.4	.....	167.0	.....	121.7	.....	*NEW*

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SINGLE 28   : 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1   206.2   199.4   167.0   167.0   121.6   121.1     0.5
SINGLE 230  : 34128 LIBERTY8 - 34498 BANKSTO8 CKT: 1   199.4   198.8   167.0   167.0   121.6   121.1     0.5
SINGLE 623  : 34458 FARLEY 8 - 34459 EPWORTH8 CKT: 1   199.1   .....   167.0   .....   121.5   .....   *NEW*
SINGLE 249  : 34138 DUNDEE 8 - 34490 MASONVL8 CKT: 1   205.6   198.8   167.0   167.0   121.4   120.9     0.5
SINGLE 624  : 34458 FARLEY 8 - 34502 FARLEY_8 CKT: 1   198.8   .....   167.0   .....   121.2   .....   *NEW*
SINGLE 516  : 34360 DYR E  8 - 34502 FARLEY_8 CKT: 1   198.6   198.0   167.0   167.0   121.1   120.6     0.5
SINGLE 32   : 34009 WINBAGO5 - 61932 RUTLAND5 CKT: 1   205.6   198.8   167.0   167.0   121.1   120.6     0.5
SINGLE 250  : 34138 DUNDEE 8 - 34521 GRELYTP8 CKT: 1   204.9   198.1   167.0   167.0   121.0   120.5     0.5
SINGLE 33   : 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1   205.3   198.5   167.0   167.0   120.9   120.5     0.4
SINGLE 219  : 34122 E CALMS5 - 34126 MQOKETA5 CKT: 1   204.6   204.0   167.0   167.0   120.8   120.3     0.5
SINGLE 69   : 34028 LORE   5 - 34032 8TH ST.5 CKT: 1   198.1   197.5   167.0   167.0   120.7   120.2     0.5
SINGLE 67   : 34026 ASBURY 5 - 34028 LORE   5 CKT: 1   197.6   197.1   167.0   167.0   120.4   120.0     0.4
SINGLE 231  : 34128 LIBERTY8 - 34507 LIBERTP8 CKT: 1   197.1   196.5   167.0   167.0   120.1   119.7     0.4
SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1   197.9   197.3   167.0   167.0   120.1   119.6     0.5
SINGLE 151  : 34068 M-TOWN 5 - 34079 TRAER  5 CKT: 1   201.2   200.8   167.0   167.0   119.3   118.9     0.4
SINGLE 163  : 34079 TRAER  5 - 34087 DYSART 5 CKT: 1   200.6   200.2   167.0   167.0   118.9   118.5     0.4
SINGLE 237  : 34133 DUNDEE 7 - 34542 DUNDEE1Y CKT: 1   201.3   200.8   167.0   167.0   118.7   118.2     0.5
SINGLE 238  : 34135 DUNDEE 5 - 34542 DUNDEE1Y CKT: 1   201.3   200.8   167.0   167.0   118.7   118.2     0.5
SINGLE 62   : 34021 LANSINGW - 34022 LANSING5 CKT: 1   199.7   199.3   167.0   167.0   118.6   118.2     0.4
SINGLE 53   : 34018 HAZLTON3 - 34019 HAZLTON5 CKT: 1   197.6   196.6   167.0   167.0   117.5   117.0     0.5
SINGLE 57   : 34019 HAZLTON5 - 34020 HAZL S 5 CKT: 1   191.6   191.1   167.0   167.0   115.7   115.3     0.4
SINGLE 54   : 34018 HAZLTON3 - 34020 HAZL S 5 CKT: 2   186.3   185.5   167.0   167.0   112.9   112.3     0.6
SINGLE 251  : 34138 DUNDEE 8 - 34543 DUNDEE2Y CKT: 1   183.9   183.2   167.0   167.0   111.7   111.2     0.5
SINGLE 239  : 34135 DUNDEE 5 - 34543 DUNDEE2Y CKT: 1   183.9   183.3   167.0   167.0   111.7   111.2     0.5
SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1   151.0   150.8   167.0   167.0    90.9    90.7     0.2
SINGLE 18   : 34006 LAKEFLD3 - 60286 NOBLES 3 CKT: C   .....   206.4   .....   167.0   .....   121.6  *ELIM*
SINGLE 43   : 34014 ADAMS  5 - 60102 ADAMS  3 CKT: P   .....   201.6   .....   167.0   .....   122.5  *ELIM*
SINGLE 53   : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1   .....   264.8   .....   167.0   .....   161.7  *ELIM*
SINGLE 78   : 34032 8TH ST.5 - 34473 DBQ 8TH8 CKT: 1   .....   201.9   .....   167.0   .....   122.9  *ELIM*
SINGLE 80   : 34035 ROCKCKW5 - 34037 ROCK CK5 CKT: 1   .....   201.1   .....   167.0   .....   122.4  *ELIM*
SINGLE 83   : 34035 ROCKCKW5 - 34344 ROCKCK 8 CKT: 1   .....   201.3   .....   167.0   .....   122.5  *ELIM*
SINGLE 92   : 34040 BEVCHN18 - 34042 BVR CH65 CKT: 1   .....   201.4   .....   167.0   .....   122.6  *ELIM*
SINGLE 93   : 34040 BEVCHN18 - 34332 SCLINTN8 CKT: 1   .....   201.1   .....   167.0   .....   122.4  *ELIM*
SINGLE 99   : 34041 BEVCHN28 - 34331 CLNCNWR8 CKT: 1   .....   201.1   .....   167.0   .....   122.4  *ELIM*
SINGLE 172  : 34085 BLRSTWN7 - 34086 WILMSBG7 CKT: 1   .....   201.2   .....   167.0   .....   122.4  *ELIM*
SINGLE 203  : 34113 FAIR   8 - 34870 MONTPELI CKT: 1   .....   201.3   .....   167.0   .....   122.7  *ELIM*
SINGLE 509  : 34337 MILLCRK8 - 34338 CMPX NT8 CKT: 1   .....   201.3   .....   167.0   .....   122.5  *ELIM*
SINGLE 510  : 34338 CMPX NT8 - 34339 HAWKEYE8 CKT: 1   .....   201.3   .....   167.0   .....   122.5  *ELIM*
SINGLE 511  : 34339 HAWKEYE8 - 34344 ROCKCK 8 CKT: 1   .....   201.3   .....   167.0   .....   122.5  *ELIM*
*** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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 11) 34051 TOLEDO 7 - 34066 M-TOWN 7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 163  : 34079 TRAER  5 - 34087 DYSART 5 CKT: 1    91.4    90.4    77.0    77.0   113.0   111.8     1.2
SINGLE 145  : 34066 M-TOWN 7 - 34085 BLRSTWN7 CKT: 1    90.4    89.5    77.0    77.0   111.8   110.6     1.2
SINGLE 151  : 34068 M-TOWN 5 - 34079 TRAER  5 CKT: 1    89.8    88.9    77.0    77.0   111.1   109.9     1.2
SINGLE 2774 : 34091 ARNOLD 5 - 34090 ARNOLD1G CKT: 1    88.4    87.7    77.0    77.0   110.5   109.5     1.0
SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1    86.8    86.0    77.0    77.0   108.4   107.2     1.2
SINGLE 55   : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1    87.2    86.3    77.0    77.0   108.3   107.1     1.2
SINGLE 153  : 34068 M-TOWN 5 - 34528 M-TOWN Y CKT: 1    87.4    86.6    77.0    77.0   108.1   107.2     0.9
SINGLE 147  : 34066 M-TOWN 7 - 34528 M-TOWN Y CKT: 1    87.4    86.6    77.0    77.0   108.1   107.2     0.9
SINGLE 175  : 34085 BLRSTWN7 - 34099 PRAR CK7 CKT: 1    87.0    86.0    77.0    77.0   107.6   106.4     1.2
SINGLE 2782 : 34099 PRAR CK7 - 34098 PR CRK4G CKT: 1    85.1    84.4    77.0    77.0   105.7   104.7     1.0
SINGLE 178  : 34091 ARNOLD 5 - 34105 HIAWATA5 CKT: 1    84.8    84.0    77.0    77.0   104.8   103.9     0.9
SINGLE 177  : 34089 VINTON 5 - 34091 ARNOLD 5 CKT: 1    84.2    83.3    77.0    77.0   104.2   103.1     1.1
SINGLE 148  : 34067 6 ST   5 - 34091 ARNOLD 5 CKT: 1    84.0    83.3    77.0    77.0   104.0   103.0     1.0
SINGLE 185  : 34097 6 ST   7 - 34527 6 ST   Y CKT: 1    84.0    83.3    77.0    77.0   103.9   103.0     0.9
SINGLE 149  : 34067 6 ST   5 - 34527 6 ST   Y CKT: 1    84.0    83.3    77.0    77.0   103.9   103.0     0.9
SINGLE 176  : 34087 DYSART 5 - 34089 VINTON 5 CKT: 1    83.6    82.7    77.0    77.0   103.5   102.3     1.2
SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    82.5    81.6    77.0    77.0   102.2   101.1     1.1
SINGLE 300  : 34185 POWESHK5 - 34191 REASNOR5 CKT: 1    82.4    81.6    77.0    77.0   101.9   100.9     1.0
SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1    81.9    81.2    77.0    77.0   101.5   100.6     0.9
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SINGLE 173	: 34084 PARNEL 5 - 34185 POWESHK5 CKT: 1	81.8	81.0	77.0	77.0	101.2	100.2	1.0
SINGLE 2894	: 60102 ADAMS 3 - 63032 PL VLLY3 CKT: 1	81.6	80.9	77.0	77.0	101.1	100.2	0.9
SINGLE 60	: 34020 HAZL S 5 - 34135 DUNDEE 5 CKT: 1	81.7	81.0	77.0	77.0	101.1	100.1	1.0
SINGLE 1116	: 60186 AS KING3 - 60304 EAU CL 3 CKT: 1	81.5	80.7	77.0	77.0	101.1	100.1	1.0
SINGLE 958	: 60108 WILMART3 - 60192 BLUE LK3 CKT: 1	81.6	80.9	77.0	77.0	101.1	100.1	1.0
SINGLE 2769	: 34084 PARNEL 5 - 64351 HILLS 5 CKT: 1	81.1	80.3	77.0	77.0	100.3	99.3	1.0
SINGLE 285	: 34179 JASPER 5 - 34211 NEWTON 5 CKT: 1	81.0	80.2	77.0	77.0	100.2	99.2	1.0
SINGLE 193	: 34105 HIAWATA5 - 34535 HIAWATAY CKT: 1	80.7	80.0	77.0	77.0	99.9	98.9	1.0
SINGLE 190	: 34101 HIAWATA7 - 34535 HIAWATAY CKT: 1	80.7	80.0	77.0	77.0	99.9	98.9	1.0
SINGLE 46	: 34015 LIME CK5 - 34016 EMERY 5 CKT: 1	80.6	79.8	77.0	77.0	99.8	98.8	1.0
SINGLE 150	: 34068 M-TOWN 5 - 34069 TIMBRCK5 CKT: 1	80.6	79.8	77.0	77.0	99.6	98.7	0.9
SINGLE 179	: 34091 ARNOLD 5 - 34111 FAIRFAX5 CKT: 1	80.5	79.7	77.0	77.0	99.6	98.6	1.0
SINGLE 2758	: 34065 NEVADA 7 - 34161 NEVADA 9 CKT: 1	80.4	79.6	77.0	77.0	99.4	98.5	0.9
SINGLE 143	: 34065 NEVADA 7 - 34070 NEVADAT7 CKT: 1	80.4	79.6	77.0	77.0	99.4	98.5	0.9
885	: ** MULTIPLE CONTINGENCY **	80.3	79.6	77.0	77.0	99.4	98.4	1.0
	: 69507 SENECA 5 - 69511 BELLCTR5 CKT: 1							
	: 69507 SENECA 5 - 69523 GENOA 5 CKT: 1							
SINGLE 158	: 34074 WELSBRG7 - 34169 WELSBGT7 CKT: 1	80.0	79.2	77.0	77.0	98.9	98.0	0.9
SINGLE 2730	: 34036 ROCK CK3 - 36382 QUAD ; CKT: 1	80.0	79.2	77.0	77.0	98.9	98.0	0.9
SINGLE 2856	: 34530 WELSBRGY - 63734 WELSBRG8 CKT: 1	80.0	79.2	77.0	77.0	98.9	98.0	0.9
SINGLE 159	: 34074 WELSBRG7 - 34530 WELSBRGY CKT: 1	80.0	79.2	77.0	77.0	98.9	98.0	0.9
SINGLE 292	: 34182 WAPELLO5 - 34183 JEFF 5 CKT: 1	79.9	79.1	77.0	77.0	98.8	97.8	1.0
SINGLE 330	: 34203 GRINNEL8 - 34607 GRNCTTP8 CKT: 1	79.8	.....	77.0	.....	98.7	.....	*NEW*
SINGLE 42	: 34014 ADAMS 5 - 34015 LIME CK5 CKT: 1	79.8	.....	77.0	.....	98.7	.....	*NEW*
BASE CASE	: ** BASE CASE **	78.8	78.1	77.0	77.0	97.5	96.5	1.0
SINGLE 183	: 34095 STON PT7 - 34099 PRAR CK7 CKT: 1	75.1	74.5	77.0	77.0	97.5	96.6	0.9
SINGLE 3540	: 66537 WHITE 3 - 6653 GI0108 CKT: 1	77.8	77.0	77.0	77.0	96.2	95.3	0.9
SINGLE 709	: 34606 GRNL CT8 - 34607 GRNCTTP8 CKT: 1	77.7	77.0	77.0	77.0	96.2	95.2	1.0
SINGLE 2703	: 34006 LAKEFLD3 - 3400 G164 CKT: 1	77.8	77.0	77.0	77.0	96.2	95.2	1.0
SINGLE 2705	: 34007 LAKEFLD5 - 6006 G262 CKT: 1	77.7	77.0	77.0	77.0	96.2	95.2	1.0
SINGLE 3020	: 60369 FENTON 7 - 6036 G162 CKT: 1	77.8	77.1	77.0	77.0	96.2	95.3	0.9
SINGLE 2704	: 34006 LAKEFLD3 - 63875 RAUN 3 CKT: 1	77.7	76.9	77.0	77.0	96.1	95.2	0.9
SINGLE 120	: 34054 GR JCT 5 - 34058 PERRY 5 CKT: 1	77.7	77.0	77.0	77.0	96.1	95.2	0.9
SINGLE 2901	: 60108 WILMART3 - 8001 G261-ST CKT: 1	77.7	76.9	77.0	77.0	96.1	95.2	0.9
SINGLE 2973	: 60287 NOBLES 7 - 6430 G287 CKT: 1	77.7	77.0	77.0	77.0	96.1	95.2	0.9
SINGLE 1001	: 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1	77.6	76.8	77.0	77.0	96.0	95.0	1.0
SINGLE 1008	: 60130 SPLTRTA3 - 66537 WHITE 3 CKT: 1	77.6	76.8	77.0	77.0	95.9	95.0	0.9
SINGLE 941	: 60015 ANSON CG - 61475 ANS TR2Y CKT: 2	77.5	76.8	77.0	77.0	95.9	95.0	0.9
SINGLE 2520	: 66565 SIOUXCY4 - 66567 DENISON4 CKT: 1	77.5	76.8	77.0	77.0	95.9	95.0	0.9
SINGLE 2917	: 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1	77.5	76.8	77.0	77.0	95.9	94.9	1.0
SINGLE 2922	: 60160 SHERCO 3 - 60000 SHERC31G CKT: 1	77.5	76.8	77.0	77.0	95.9	94.9	1.0
SINGLE 2923	: 60160 SHERCO 3 - 60001 SHERC32G CKT: 1	77.5	76.8	77.0	77.0	95.9	95.0	0.9
SINGLE 940	: 60015 ANSON CG - 60129 SPLT RK7 CKT: 1	77.5	76.8	77.0	77.0	95.9	95.0	0.9
SINGLE 216	: 34121 E CALMS7 - 34539 E CALMSY CKT: 1	77.4	76.6	77.0	77.0	95.7	94.8	0.9
SINGLE 1009	: 60131 SPLTRTB3 - 66564 SIOUXCY3 CKT: 1	77.4	76.6	77.0	77.0	95.7	94.8	0.9
SINGLE 2715	: 34016 EMERY 5 - 34910 EMERYGT1 CKT: 1	77.4	76.6	77.0	77.0	95.7	94.8	0.9
SINGLE 2716	: 34016 EMERY 5 - 34911 EMERYGT2 CKT: 1	77.4	76.6	77.0	77.0	95.7	94.8	0.9
SINGLE 220	: 34122 E CALMS5 - 34539 E CALMSY CKT: 1	77.4	76.6	77.0	77.0	95.7	94.8	0.9
SINGLE 215	: 34120 CALAMUS7 - 34121 E CALMS7 CKT: 1	77.4	76.6	77.0	77.0	95.7	94.8	0.9
SINGLE 1002	: 60126 SPLT RK3 - 60131 SPLTRTB3 CKT: 1	77.4	76.6	77.0	77.0	95.7	94.8	0.9
SINGLE 2744	: 34054 GR JCT 5 - 63771 DRAGER 5 CKT: 1	77.1	76.4	77.0	77.0	95.3	94.5	0.8
SINGLE 3589	: 67101 ANTELOP3 - 67103 ANTEL31G CKT: 1	77.1	76.3	77.0	77.0	95.3	94.4	0.9
SINGLE 3590	: 67101 ANTELOP3 - 67107 ANTEL32G CKT: 1	77.1	76.3	77.0	77.0	95.3	94.4	0.9
SINGLE 3592	: 67105 LELANDO3 - 67111 LELAN32G CKT: 1	77.0	76.3	77.0	77.0	95.2	94.3	0.9
SINGLE 3449	: 63314 BIGSTON4 - 63315 BIGSTN1G CKT: 1	76.9	76.1	77.0	77.0	95.1	94.2	0.9
SINGLE 2924	: 60160 SHERCO 3 - 60002 SHERC33G CKT: 1	76.9	76.2	77.0	77.0	95.1	94.2	0.9
SINGLE 2754	: 34061 BNE JCT5 - 64205 FT.DODG5 CKT: 1	76.9	76.1	77.0	77.0	95.1	94.1	1.0
SINGLE 214	: 34117 SUTLIFF7 - 34120 CALAMUS7 CKT: 1	76.9	76.2	77.0	77.0	95.1	94.2	0.9
SINGLE 182	: 34095 STON PT7 - 34097 6 ST 7 CKT: 1	76.8	76.1	77.0	77.0	95.0	94.1	0.9
SINGLE 3398	: 63041 COAL CR4 - 63000 COAL 41G CKT: 1	76.6	75.9	77.0	77.0	94.8	93.8	1.0
SINGLE 3399	: 63041 COAL CR4 - 63001 COAL 42G CKT: 1	76.6	75.9	77.0	77.0	94.8	93.8	1.0
SINGLE 227	: 34126 MQOKETA5 - 34127 WYOMING5 CKT: 1	76.7	75.9	77.0	77.0	94.8	93.9	0.9
SINGLE 2717	: 34016 EMERY 5 - 34912 EMERYST1 CKT: 1	76.6	75.8	77.0	77.0	94.7	93.8	0.9

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SINGLE 2821 : 34191 REASNOR5 - 64062 DMOINES5 CKT: 1    76.5    75.8    77.0    77.0    94.6    93.8     0.8
SINGLE 2813 : 34179 JASPER 5 - 64189 NEANKNY5 CKT: 1    76.4    75.7    77.0    77.0    94.5    93.6     0.9
SINGLE 188  : 34099 PRAR CK7 - 34117 SUTLIFF7 CKT: 1    76.2    75.4    77.0    77.0    94.2    93.3     0.9
SINGLE 146  : 34066 M-TOWN 7 - 34169 WELSBGT7 CKT: 1    76.1    75.4    77.0    77.0    94.1    93.2     0.9
SINGLE 152  : 34068 M-TOWN 5 - 34179 JASPER 5 CKT: 1    76.0    75.4    77.0    77.0    94.0    93.3     0.7
SINGLE 2820 : 34189 OTTUMWA5 - 34146 OTTUMW1G CKT: 1    75.8    75.1    77.0    77.0    93.9    93.0     0.9
SINGLE 2785 : 34105 HIAWATA5 - 34112 HIAWATA9 CKT: 1    75.9    75.1    77.0    77.0    93.9    92.9     1.0
SINGLE 3596 : 67131 LARAMIE3 - 67118 LARAM31G CKT: 1    75.9    75.1    77.0    77.0    93.8    92.9     0.9
SINGLE 116  : 34052 AMES   7 - 34070 NEVADAT7 CKT: 1    75.8    75.1    77.0    77.0    93.7    92.9     0.8
SINGLE 161  : 34075 ELDORA 7 - 34169 WELSBGT7 CKT: 1    75.8    75.0    77.0    77.0    93.7    92.8     0.9
SINGLE 119  : 34053 MT VERN5 - 34127 WYOMING5 CKT: 1    75.8    75.0    77.0    77.0    93.7    92.8     0.9
SINGLE 118  : 34053 MT VERN5 - 34109 BERTRAM5 CKT: 1    75.1    74.3    77.0    77.0    92.9    92.0     0.9
SINGLE 117  : 34052 AMES   7 - 34076 BNE JCT7 CKT: 1    75.1    74.4    77.0    77.0    92.9    92.1     0.8
SINGLE 160  : 34075 ELDORA 7 - 34077 IA FALS7 CKT: 1    75.0    74.3    77.0    77.0    92.7    91.9     0.8
SINGLE 187  : 34099 PRAR CK7 - 34108 BERTRAM7 CKT: 1    74.5    73.8    77.0    77.0    92.2    91.3     0.9
SINGLE 198  : 34108 BERTRAM7 - 34537 BERTRAMY CKT: 1    74.5    73.8    77.0    77.0    92.2    91.3     0.9
SINGLE 200  : 34109 BERTRAM5 - 34537 BERTRAMY CKT: 1    74.5    73.8    77.0    77.0    92.2    91.3     0.9
SINGLE 155  : 34072 FRNKLIN7 - 34077 IA FALS7 CKT: 1    72.9   .....    77.0   .....    90.1   .....   *NEW*
SINGLE 2860 : 34571 FRNKLN_Y - 64239 FRANKLN5 CKT: 1    72.9   .....    77.0   .....    90.1   .....   *NEW*
SINGLE 156  : 34072 FRNKLIN7 - 34571 FRNKLN_Y CKT: 1    72.9   .....    77.0   .....    90.1   .....   *NEW*
SINGLE 3620 : 67316 COYOTE 3 - 67315 COYOTE1G CKT: 1   .....    76.4   .....    77.0   .....    94.5  *ELIM*
SINGLE 2987 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1   .....    81.3   .....    77.0   .....   100.9  *ELIM*
PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **               .....    81.9   .....    77.0   .....   101.3  *ELIM*
            : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
            : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
050    2    : ** MULTIPLE CONTINGENCY **               .....    82.4   .....    77.0   .....   102.3  *ELIM*
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
050    3    : ** MULTIPLE CONTINGENCY **               .....    81.3   .....    77.0   .....   101.1  *ELIM*
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 39901 COC DPC  - 38342 COC 69   CKT: 1
            : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
*** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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 12) 34051 TOLEDO 7 - 34083 BL.PLN.7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 163  : 34079 TRAER  5 - 34087 DYSART 5 CKT: 1    66.8    65.9    59.0    59.0   112.7   111.2     1.5
SINGLE 145  : 34066 M-TOWN 7 - 34085 BLRSTWN7 CKT: 1    65.9    65.0    59.0    59.0   111.1   109.6     1.5
SINGLE 151  : 34068 M-TOWN 5 - 34079 TRAER  5 CKT: 1    65.3    64.4    59.0    59.0   110.1   108.6     1.5
SINGLE 2774 : 34091 ARNOLD 5 - 34090 ARNOLD1G CKT: 1    63.0    62.3    59.0    59.0   107.9   106.5     1.4
SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1    62.9    62.1    59.0    59.0   106.8   105.3     1.5
SINGLE 55   : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1    63.0    62.2    59.0    59.0   106.5   104.9     1.6
825         : ** MULTIPLE CONTINGENCY **                62.6    61.9    59.0    59.0   106.3   104.8     1.5
            : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
            : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
            : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1
SINGLE 147  : 34066 M-TOWN 7 - 34528 M-TOWN Y CKT: 1    63.0    62.3    59.0    59.0   106.1   104.9     1.2
SINGLE 153  : 34068 M-TOWN 5 - 34528 M-TOWN Y CKT: 1    63.0    62.3    59.0    59.0   106.1   105.0     1.1
SINGLE 175  : 34085 BLRSTWN7 - 34099 PRAR CK7 CKT: 1    62.6    61.7    59.0    59.0   105.5   104.0     1.5
SINGLE 2741 : 34051 TOLEDO 7 - 34154 TOLEDO 9 CKT: 1    62.2    61.5    59.0    59.0   102.7   101.4     1.3
SINGLE 2782 : 34099 PRAR CK7 - 34098 PR CRK4G CKT: 1    60.1    59.5    59.0    59.0   102.0   100.7     1.3
SINGLE 178  : 34091 ARNOLD 5 - 34105 HIAWATA5 CKT: 1    60.4    59.7    59.0    59.0   101.7   100.4     1.3
SINGLE 177  : 34089 VINTON 5 - 34091 ARNOLD 5 CKT: 1    60.0    59.2    59.0    59.0   101.0    99.5     1.5
SINGLE 148  : 34067 6 ST   5 - 34091 ARNOLD 5 CKT: 1    59.7    59.0    59.0    59.0   100.6    99.3     1.3
SINGLE 185  : 34097 6 ST   7 - 34527 6 ST   Y CKT: 1    59.7    59.0    59.0    59.0   100.5    99.3     1.2
SINGLE 149  : 34067 6 ST   5 - 34527 6 ST   Y CKT: 1    59.7    59.0    59.0    59.0   100.5    99.3     1.2
SINGLE 176  : 34087 DYSART 5 - 34089 VINTON 5 CKT: 1    59.4    58.6    59.0    59.0   100.0    98.5     1.5
050    1    : ** MULTIPLE CONTINGENCY **                58.6    57.9    59.0    59.0    99.6    98.2     1.4
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
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              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                58.6    57.8    59.0    59.0    99.2    97.9     1.3
              : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
050    2      : ** MULTIPLE CONTINGENCY **                58.6    57.8    59.0    59.0    99.2    97.8     1.4
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
SINGLE 951    : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1    58.5    58.1    59.0    59.0    98.6    97.9     0.7
PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                58.5    57.8    59.0    59.0    98.5    97.2     1.3
              : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
              : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
SINGLE 959    : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    58.4    57.6    59.0    59.0    98.4    96.9     1.5
SINGLE 300    : 34185 POWESHK5 - 34191 REASNOR5 CKT: 1    58.3    57.4    59.0    59.0    98.0    96.6     1.4
050    3      : ** MULTIPLE CONTINGENCY **                57.5    56.8    59.0    59.0    97.7    96.2     1.5
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
SINGLE 3362   : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1    57.9    57.2    59.0    59.0    97.5    96.2     1.3
SINGLE 2989   : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1    57.5    56.8    59.0    59.0    97.5    96.1     1.4
SINGLE 2894   : 60102 ADAMS  3 - 63032 PL VLLY3 CKT: 1    57.6    56.9    59.0    59.0    97.0    95.7     1.3
SINGLE 173    : 34084 PARNEL 5 - 34185 POWESHK5 CKT: 1    57.7    56.9    59.0    59.0    97.0    95.6     1.4
SINGLE 958    : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    57.6    56.8    59.0    59.0    96.9    95.5     1.4
SINGLE 60     : 34020 HAZL S 5 - 34135 DUNDEE 5 CKT: 1    57.6    56.8    59.0    59.0    96.8    95.6     1.2
SINGLE 1116   : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1    57.3    56.6    59.0    59.0    96.7    95.3     1.4
SINGLE 2769   : 34084 PARNEL 5 - 64351 HILLS  5 CKT: 1    57.0    56.2    59.0    59.0    95.9    94.5     1.4
SINGLE 285    : 34179 JASPER 5 - 34211 NEWTON 5 CKT: 1    56.9    56.1    59.0    59.0    95.6    94.3     1.3
SINGLE 190    : 34101 HIAWATA7 - 34535 HIAWATAY CKT: 1    56.7    56.0    59.0    59.0    95.3    94.0     1.3
SINGLE 193    : 34105 HIAWATA5 - 34535 HIAWATAY CKT: 1    56.7    56.0    59.0    59.0    95.3    94.0     1.3
SINGLE 46     : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1    56.5    55.8    59.0    59.0    95.2    93.8     1.4
SINGLE 150    : 34068 M-TOWN 5 - 34069 TIMBRCK5 CKT: 1    56.5    55.7    59.0    59.0    94.9    93.7     1.2
SINGLE 179    : 34091 ARNOLD 5 - 34111 FAIRFAX5 CKT: 1    56.4    55.6    59.0    59.0    94.8    93.5     1.3
SINGLE 143    : 34065 NEVADA 7 - 34070 NEVADAT7 CKT: 1    56.3    55.6    59.0    59.0    94.7    93.4     1.3
SINGLE 2758   : 34065 NEVADA 7 - 34161 NEVADA 9 CKT: 1    56.3    55.6    59.0    59.0    94.7    93.4     1.3
885           : ** MULTIPLE CONTINGENCY **                56.1    55.4    59.0    59.0    94.5    93.2     1.3
              : 69507 SENECA 5 - 69511 BELLCTR5 CKT: 1
              : 69507 SENECA 5 - 69523 GENOA  5 CKT: 1
SINGLE 158    : 34074 WELSBRG7 - 34169 WELSBGT7 CKT: 1    55.9    55.2    59.0    59.0    93.9    92.7     1.2
SINGLE 2856   : 34530 WELSBRGY - 63734 WELSBRG8 CKT: 1    55.9    55.2    59.0    59.0    93.9    92.7     1.2
SINGLE 159    : 34074 WELSBRG7 - 34530 WELSBRGY CKT: 1    55.9    55.2    59.0    59.0    93.9    92.7     1.2
SINGLE 2730   : 34036 ROCK CK3 - 36382 QUAD ;   CKT: 1    55.8    55.1    59.0    59.0    93.8    92.6     1.2
BASE CASE     : **       BASE CASE      **               54.8    54.0    59.0    59.0    92.0    90.8     1.2
SINGLE 2703   : 34006 LAKEFLD3 -  3400 G164     CKT: 1    53.7   .....    59.0   .....    90.3   .....   *NEW*
SINGLE 2705   : 34007 LAKEFLD5 -  6006 G262     CKT: 1    53.7   .....    59.0   .....    90.3   .....   *NEW*
SINGLE 709    : 34606 GRNL CT8 - 34607 GRNCTTP8 CKT: 1    53.7   .....    59.0   .....    90.3   .....   *NEW*
SINGLE 2704   : 34006 LAKEFLD3 - 63875 RAUN   3 CKT: 1    53.7   .....    59.0   .....    90.2   .....   *NEW*
SINGLE 2973   : 60287 NOBLES 7 -  6430 G287     CKT: 1    53.7   .....    59.0   .....    90.2   .....   *NEW*
SINGLE 2901   : 60108 WILMART3 -  8001 G261-ST  CKT: 1    53.7   .....    59.0   .....    90.2   .....   *NEW*
SINGLE 120    : 34054 GR JCT 5 - 34058 PERRY  5 CKT: 1    53.7   .....    59.0   .....    90.2   .....   *NEW*

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 13) 34051 TOLEDO 7 - 34154 TOLEDO 9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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 BASE CASE    : **       BASE CASE      **               24.9    24.9    24.0    24.0   103.7   103.7     0.0

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 14) 34054 GR JCT 5 - 34058 PERRY  5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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 SINGLE 122   : 34054 GR JCT 5 - 34529 GRJCT5Y  CKT: 1   125.7   123.5   112.0   112.0   113.5   111.4     2.1
 SINGLE 132   : 34059 BOONE  7 - 34073 GR JCT 7 CKT: 1   125.7   123.5   112.0   112.0   113.5   111.4     2.1
 SINGLE 157   : 34073 GR JCT 7 - 34529 GRJCT5Y  CKT: 1   125.7   123.5   112.0   112.0   113.5   111.4     2.1
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SINGLE 108	: 34047 ANTA TP5 - 66560 CRESTON5 CKT: 1	122.0	119.7	112.0	112.0	109.6	107.3	2.3
SINGLE 56	: 34018 HAZLTON3 - 60102 ADAMS 3 CKT: 1	119.9	118.0	112.0	112.0	108.7	106.6	2.1
SINGLE 959	: 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1	118.3	116.1	112.0	112.0	106.8	104.8	2.0
SINGLE 958	: 60108 WILMART3 - 60192 BLUE LK3 CKT: 1	115.4	113.4	112.0	112.0	104.0	101.9	2.1
SINGLE 117	: 34052 AMES 7 - 34076 BNE JCT7 CKT: 1	115.6	113.5	112.0	112.0	103.5	101.4	2.1
SINGLE 121	: 34054 GR JCT 5 - 34525 GR JCT Y CKT: 1	115.8	113.7	112.0	112.0	103.3	101.4	1.9
SINGLE 1116	: 60186 AS KING3 - 60304 EAU CL 3 CKT: 1	114.1	112.3	112.0	112.0	102.9	101.1	1.8
SINGLE 116	: 34052 AMES 7 - 34070 NEVADAT7 CKT: 1	114.6	112.4	112.0	112.0	102.7	100.6	2.1
SINGLE 135	: 34060 WNTRST 5 - 66560 CRESTON5 CKT: 1	113.7	111.6	112.0	112.0	101.8	99.7	2.1
SINGLE 2740	: 34050 GU CTR 5 - 34167 GU CTR 9 CKT: 1	113.7	111.6	112.0	112.0	101.5	99.5	2.0
SINGLE 2739	: 34049 SCRANTN5 - 34165 SCRANTN9 CKT: 1	113.4	111.3	112.0	112.0	101.3	99.3	2.0
SINGLE 2719	: 34016 EMERY 5 - 64252 FLOYD 5 CKT: 1	112.1	110.2	112.0	112.0	100.8	98.8	2.0
SINGLE 153	: 34068 M-TOWN 5 - 34528 M-TOWN Y CKT: 1	112.2	110.2	112.0	112.0	100.7	98.8	1.9
SINGLE 147	: 34066 M-TOWN 7 - 34528 M-TOWN Y CKT: 1	112.2	110.2	112.0	112.0	100.7	98.8	1.9
SINGLE 2753	: 34061 BNE JCT5 - 64067 BONDRNT5 CKT: 1	111.2	109.1	112.0	112.0	100.6	98.4	2.2
SINGLE 2752	: 34060 WNTRST 5 - 64197 NORWLK5 CKT: 1	112.2	110.1	112.0	112.0	100.5	98.4	2.1
SINGLE 136	: 34061 BNE JCT5 - 34062 BNE JCT8 CKT: 1	112.4	110.4	112.0	112.0	100.5	98.5	2.0
SINGLE 141	: 34064 ANITA 8 - 34524 ANITA Y CKT: 1	111.4	109.3	112.0	112.0	100.0	98.0	2.0
SINGLE 155	: 34072 FRNKLIN7 - 34077 IA FALS7 CKT: 1	111.5	109.5	112.0	112.0	100.0	98.0	2.0
SINGLE 156	: 34072 FRNKLIN7 - 34571 FRNKLN_Y CKT: 1	111.5	109.5	112.0	112.0	100.0	98.0	2.0
SINGLE 111	: 34048 ANITA 5 - 34524 ANITA Y CKT: 1	111.4	109.3	112.0	112.0	100.0	98.0	2.0
SINGLE 29	: 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1	111.4	109.4	112.0	112.0	99.9	97.9	2.0
SINGLE 32	: 34009 WINBAGO5 - 61932 RUTLAND5 CKT: 1	111.3	109.3	112.0	112.0	99.9	97.9	2.0
SINGLE 709	: 34606 GRNL CT8 - 34607 GRNCTTP8 CKT: 1	111.2	109.2	112.0	112.0	99.7	97.8	1.9
SINGLE 685	: 34585 LORIMRR8 - 34586 LORIMOR8 CKT: 1	110.9	108.8	112.0	112.0	99.3	97.3	2.0
SINGLE 686	: 34585 LORIMRR8 - 34588 SLAKEN 8 CKT: 1	110.9	108.8	112.0	112.0	99.3	97.3	2.0
SINGLE 687	: 34586 LORIMOR8 - 34587 MURRAY 8 CKT: 1	110.9	108.8	112.0	112.0	99.3	97.3	2.0
SINGLE 28	: 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1	110.7	108.6	112.0	112.0	99.2	97.2	2.0
SINGLE 33	: 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1	110.7	108.6	112.0	112.0	99.2	97.2	2.0
SINGLE 160	: 34075 ELDORA 7 - 34077 IA FALS7 CKT: 1	110.6	108.6	112.0	112.0	99.1	97.1	2.0
SINGLE 689	: 34587 MURRAY 8 - 34658 OSCEOLA8 CKT: 1	110.6	108.5	112.0	112.0	99.0	97.0	2.0
SINGLE 725	: 34625 LACONA 8 - 34627 LUCAS T8 CKT: 1	110.5	108.4	112.0	112.0	98.9	96.9	2.0
SINGLE 726	: 34625 LACONA 8 - 34640 WODBURN8 CKT: 1	110.5	108.4	112.0	112.0	98.9	96.9	2.0
SINGLE 739	: 34640 WODBURN8 - 34659 OSCEREC8 CKT: 1	110.5	108.4	112.0	112.0	98.9	96.9	2.0
SINGLE 755	: 34658 OSCEOLA8 - 34659 OSCEREC8 CKT: 1	110.5	108.4	112.0	112.0	98.9	96.9	2.0
SINGLE 328	: 34202 LUCAS 8 - 34627 LUCAS T8 CKT: 1	110.5	108.4	112.0	112.0	98.9	96.9	2.0
SINGLE 154	: 34070 NEVADAT7 - 34071 FERNALD7 CKT: 1	110.0	107.9	112.0	112.0	98.9	96.8	2.1
SINGLE 21	: 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1	110.3	108.0	112.0	112.0	98.8	96.7	2.1
SINGLE 161	: 34075 ELDORA 7 - 34169 WELSBGT7 CKT: 1	110.3	108.2	112.0	112.0	98.8	96.8	2.0
SINGLE 20	: 34006 LAKEFLD3 - 60286 NOBLES 3 CKT: C	110.1	108.0	112.0	112.0	98.6	96.6	2.0
SINGLE 146	: 34066 M-TOWN 7 - 34169 WELSBGT7 CKT: 1	110.0	108.0	112.0	112.0	98.6	96.6	2.0
SINGLE 992	: 60122 LAWRENC7 - 60834 LAWRENC8 CKT: 1	110.1	108.1	112.0	112.0	98.6	96.7	1.9
SINGLE 1275	: 60265 LOON TP7 - 60830 EASTWD18 CKT: P	109.9	107.9	112.0	112.0	98.5	96.5	2.0
SINGLE 741	: 34641 KELLERT8 - 34643 GRRIVER8 CKT: 1	109.9	.....	112.0	.....	98.4	.....	*NEW*
SINGLE 143	: 34065 NEVADA 7 - 34070 NEVADAT7 CKT: 1	110.0	108.0	112.0	112.0	98.3	96.3	2.0
BASE CASE	: ** BASE CASE **	108.9	106.8	112.0	112.0	97.5	95.5	2.0
SINGLE 176	: 34087 DYSART 5 - 34089 VINTON 5 CKT: 1	107.8	105.8	112.0	112.0	96.5	94.6	1.9
SINGLE 150	: 34068 M-TOWN 5 - 34069 TIMBRCK5 CKT: 1	107.9	105.8	112.0	112.0	96.5	94.5	2.0
SINGLE 2505	: 66536 RASMUSN4 - 66565 SIOUXCY4 CKT: 1	107.8	105.8	112.0	112.0	96.5	94.5	2.0
SINGLE 175	: 34085 BLRSTWN7 - 34099 PRAR CK7 CKT: 1	107.8	105.8	112.0	112.0	96.5	94.5	2.0
SINGLE 2635	: 67204 BRDLNDTY - 67205 BRDLAND4 CKT: 1	107.8	105.7	112.0	112.0	96.4	94.4	2.0
SINGLE 292	: 34182 WAPELLO5 - 34183 JEFF 5 CKT: 1	107.8	105.7	112.0	112.0	96.4	94.4	2.0
SINGLE 2482	: 66514 HURON 4 - 67205 BRDLAND4 CKT: 1	107.8	105.7	112.0	112.0	96.4	94.4	2.0
SINGLE 177	: 34089 VINTON 5 - 34091 ARNOLD 5 CKT: 1	107.7	105.7	112.0	112.0	96.4	94.5	1.9
SINGLE 2595	: 67101 ANTELOP3 - 67120 HURON 3 CKT: 1	107.8	105.7	112.0	112.0	96.4	94.4	2.0
SINGLE 2613	: 67120 HURON 3 - 67204 BRDLNDTY CKT: 1	107.8	105.7	112.0	112.0	96.4	94.4	2.0
SINGLE 331	: 34203 GRINNEL8 - 34608 SGRINNL8 CKT: 1	107.6	105.5	112.0	112.0	96.3	94.3	2.0
SINGLE 332	: 34204 JASPER 8 - 34549 JASPER Y CKT: 1	107.6	105.5	112.0	112.0	96.3	94.3	2.0
SINGLE 333	: 34204 JASPER 8 - 34574 AURORA 8 CKT: 1	107.6	105.5	112.0	112.0	96.3	94.3	2.0
SINGLE 2715	: 34016 EMERY 5 - 34910 EMERYGT1 CKT: 1	107.7	105.7	112.0	112.0	96.3	94.3	2.0
SINGLE 2716	: 34016 EMERY 5 - 34911 EMERYGT2 CKT: 1	107.7	105.7	112.0	112.0	96.3	94.3	2.0
SINGLE 2451	: 66506 FTTHOMP3 - 67105 LELANDO3 CKT: 1	107.7	105.6	112.0	112.0	96.3	94.3	2.0
SINGLE 2470	: 66509 FTRANDL4 - 66565 SIOUXCY4 CKT: 1	107.6	105.7	112.0	112.0	96.3	94.4	1.9

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SINGLE 115  : 34051 TOLEDO 7 - 34083 BL.PLN.7 CKT: 1   107.7   105.6   112.0   112.0    96.3    94.4     1.9
SINGLE 2496 : 66526 UTICAJC4 - 66536 RASMUSN4 CKT: 1   107.6   105.5   112.0   112.0    96.3    94.3     2.0
SINGLE 286  : 34179 JASPER 5 - 34549 JASPER Y CKT: 1   107.6   105.5   112.0   112.0    96.3    94.3     2.0
SINGLE 2706 : 34008 FOX LK 5 - 34011 FOXLK53G CKT: 1   107.6   105.6   112.0   112.0    96.2    94.3     1.9
SINGLE 2462 : 66507 FTTHOMP4 - 66541 BIGBND24 CKT: 1   107.6   105.5   112.0   112.0    96.2    94.2     2.0
SINGLE 145  : 34066 M-TOWN 7 - 34085 BLRSTWN7 CKT: 1   107.4   105.4   112.0   112.0    96.1    94.1     2.0
SINGLE 247  : 34137 TRIBOJI5 - 66563 SPENCER5 CKT: 1   107.4   105.1   112.0   112.0    96.0    93.7     2.3
SINGLE 313  : 34191 REASNOR5 - 34211 NEWTON 5 CKT: 1   107.3   105.3   112.0   112.0    96.0    94.1     1.9
SINGLE 114  : 34051 TOLEDO 7 - 34066 M-TOWN 7 CKT: 1   107.2   105.2   112.0   112.0    95.9    93.9     2.0
SINGLE 2700 :  6001 YANKEE 7 -  6003 G176     CKT: 1   107.3   105.3   112.0   112.0    95.9    94.0     1.9
SINGLE 1292 : 60287 NOBLES 7 - 60369 FENTON 7 CKT: C   107.1   105.1   112.0   112.0    95.8    93.8     2.0
SINGLE 138  : 34061 BNE JCT5 - 34076 BNE JCT7 CKT: 3   106.8   104.7   112.0   112.0    95.7    93.7     2.0
SINGLE 2702 :  6450 PRIMGHAR -  6460 GI0304F1 CKT: 1   107.0   .....   112.0   .....    95.6   .....   *NEW*
SINGLE 2515 : 66562 EAGLE  4 - 66578 PAHOJA 4 CKT: 1   106.7   104.7   112.0   112.0    95.5    93.4     2.1
SINGLE 2494 : 66523 SIOUXFL4 - 66578 PAHOJA 4 CKT: 1   106.7   104.6   112.0   112.0    95.4    93.4     2.0
SINGLE 330  : 34203 GRINNEL8 - 34607 GRNCTTP8 CKT: 1   106.4   104.4   112.0   112.0    95.2    93.3     1.9
SINGLE 2704 : 34006 LAKEFLD3 - 63875 RAUN   3 CKT: 1   106.2   104.1   112.0   112.0    95.0    93.0     2.0
SINGLE 2461 : 66507 FTTHOMP4 - 66540 BIGBND14 CKT: 1   106.0   104.0   112.0   112.0    94.7    92.7     2.0
SINGLE 2699 :  6001 YANKEE 7 -  6002 YANKGEN  CKT: 1   105.7   103.6   112.0   112.0    94.4    92.4     2.0
SINGLE 2703 : 34006 LAKEFLD3 -  3400 G164     CKT: 1   105.4   103.4   112.0   112.0    94.1    92.1     2.0
SINGLE 2705 : 34007 LAKEFLD5 -  6006 G262     CKT: 1   105.4   103.3   112.0   112.0    94.1    92.1     2.0
SINGLE 137  : 34061 BNE JCT5 - 34076 BNE JCT7 CKT: 2   104.5   102.6   112.0   112.0    94.0    92.0     2.0
SINGLE 152  : 34068 M-TOWN 5 - 34179 JASPER 5 CKT: 1   104.6   102.8   112.0   112.0    93.7    92.0     1.7
SINGLE 173  : 34084 PARNEL 5 - 34185 POWESHK5 CKT: 1   104.7   102.7   112.0   112.0    93.6    91.6     2.0
SINGLE 940  : 60015 ANSON CG - 60129 SPLT RK7 CKT: 1   104.6   102.5   112.0   112.0    93.3    91.3     2.0
SINGLE 941  : 60015 ANSON CG - 61475 ANS TR2Y CKT: 2   104.6   102.5   112.0   112.0    93.3    91.3     2.0
SINGLE 1008 : 60130 SPLTRTA3 - 66537 WHITE  3 CKT: 1   104.5   102.3   112.0   112.0    93.2    91.2     2.0
SINGLE 1001 : 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1   104.5   102.3   112.0   112.0    93.2    91.2     2.0
SINGLE 151  : 34068 M-TOWN 5 - 34079 TRAER  5 CKT: 1   103.8   101.8   112.0   112.0    92.7    90.8     1.9
SINGLE 163  : 34079 TRAER  5 - 34087 DYSART 5 CKT: 1   103.7   101.7   112.0   112.0    92.6    90.6     2.0
SINGLE 1009 : 60131 SPLTRTB3 - 66564 SIOUXCY3 CKT: 1   103.6   101.5   112.0   112.0    92.5    90.5     2.0
SINGLE 1002 : 60126 SPLT RK3 - 60131 SPLTRTB3 CKT: 1   103.7   101.6   112.0   112.0    92.5    90.5     2.0
SINGLE 285  : 34179 JASPER 5 - 34211 NEWTON 5 CKT: 1   102.6   .....   112.0   .....    91.7   .....   *NEW*
SINGLE 300  : 34185 POWESHK5 - 34191 REASNOR5 CKT: 1   101.6   .....   112.0   .....    90.7   .....   *NEW*
SINGLE 53   : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1   .....   112.0   .....   112.0   .....   100.5  *ELIM*
SINGLE 2753 : 34062 BNE JCT8 - 64504 STANGE8  CKT: 1   .....   110.4   .....   112.0   .....    98.5  *ELIM*
SINGLE 2756 : 34065 NEVADA 7 - 34161 NEVADA 9 CKT: 1   .....   108.0   .....   112.0   .....    96.3  *ELIM*
SINGLE 2757 : 34066 M-TOWN 7 - 34088 M-TOWN3G CKT: 1   .....   109.0   .....   112.0   .....    97.6  *ELIM*
*** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

==================================================================================================================
15) 34054 GR JCT 5 - 63771 DRAGER 5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 2513 : 66561 DENISON5 - 66567 DENISON4 CKT: 1   157.4   155.2   140.0   140.0   114.6   112.7     1.9
SINGLE 109  : 34047 ANTA TP5 - 66561 DENISON5 CKT: 1   156.1   153.9   140.0   140.0   114.0   112.1     1.9
SINGLE 107  : 34047 ANTA TP5 - 34048 ANITA  5 CKT: 1   150.3   148.3   140.0   140.0   110.1   108.4     1.7
SINGLE 110  : 34048 ANITA  5 - 34050 GU CTR 5 CKT: 1   147.6   145.6   140.0   140.0   108.6   106.9     1.7
SINGLE 112  : 34049 SCRANTN5 - 34050 GU CTR 5 CKT: 1   143.0   141.0   140.0   140.0   104.6   102.9     1.7
SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1   141.6   139.8   140.0   140.0   104.1   102.4     1.7
SINGLE 2754 : 34061 BNE JCT5 - 64205 FT.DODG5 CKT: 1   141.9   139.9   140.0   140.0   104.0   102.3     1.7
SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   141.5   139.1   140.0   140.0   103.7   101.8     1.9
SINGLE 113  : 34049 SCRANTN5 - 34054 GR JCT 5 CKT: 1   139.9   137.8   140.0   140.0   102.0   100.3     1.7
SINGLE 133  : 34059 BOONE  7 - 34076 BNE JCT7 CKT: 1   136.4   134.5   140.0   140.0   101.6   100.0     1.6
SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   138.1   136.3   140.0   140.0   101.0    99.4     1.6
SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   137.3   135.2   140.0   140.0   100.4    98.7     1.7
SINGLE 2894 : 60102 ADAMS  3 - 63032 PL VLLY3 CKT: 1   136.6   134.8   140.0   140.0    99.7    98.1     1.6
SINGLE 2821 : 34191 REASNOR5 - 64062 DMOINES5 CKT: 1   135.1   133.0   140.0   140.0    98.3    96.6     1.7
SINGLE 2719 : 34016 EMERY  5 - 64252 FLOYD  5 CKT: 1   134.5   132.7   140.0   140.0    98.1    96.5     1.6
SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1   134.6   132.6   140.0   140.0    98.0    96.3     1.7
SINGLE 32   : 34009 WINBAGO5 - 61932 RUTLAND5 CKT: 1   134.6   132.5   140.0   140.0    97.9    96.3     1.6
SINGLE 156  : 34072 FRNKLIN7 - 34571 FRNKLN_Y CKT: 1   134.2   132.2   140.0   140.0    97.6    96.0     1.6
SINGLE 137  : 34061 BNE JCT5 - 34076 BNE JCT7 CKT: 2   133.9   131.9   140.0   140.0    97.6    95.9     1.7
SINGLE 2860 : 34571 FRNKLN_Y - 64239 FRANKLN5 CKT: 1   134.2   132.2   140.0   140.0    97.6    96.0     1.6
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SINGLE 155	: 34072 FRNKLIN7 - 34077 IA FALS7 CKT: 1	134.2	132.2	140.0	140.0	97.6	96.0	1.6
SINGLE 28	: 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1	133.9	131.9	140.0	140.0	97.4	95.7	1.7
SINGLE 2759	: 34066 M-TOWN 7 - 34088 M-TOWN3G CKT: 1	133.8	131.8	140.0	140.0	97.3	95.7	1.6
SINGLE 33	: 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1	133.8	131.8	140.0	140.0	97.3	95.7	1.6
SINGLE 2775	: 34093 ARNOLD 3 - 64352 TIFFIN 3 CKT: 1	133.4	131.5	140.0	140.0	97.2	95.5	1.7
SINGLE 160	: 34075 ELDORA 7 - 34077 IA FALS7 CKT: 1	133.5	131.5	140.0	140.0	97.1	95.4	1.7
SINGLE 21	: 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1	133.5	131.3	140.0	140.0	97.1	95.3	1.8
SINGLE 992	: 60122 LAWRENC7 - 60834 LAWRENC8 CKT: 1	133.4	131.4	140.0	140.0	97.0	95.3	1.7
SINGLE 161	: 34075 ELDORA 7 - 34169 WELSBGT7 CKT: 1	133.2	131.2	140.0	140.0	96.8	95.2	1.6
SINGLE 2916	: 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1	133.1	131.1	140.0	140.0	96.8	95.1	1.7
BASE CASE	: ** BASE CASE **	132.1	130.1	140.0	140.0	95.9	94.3	1.6
SINGLE 111	: 34048 ANITA 5 - 34524 ANITA Y CKT: 1	130.9	128.9	140.0	140.0	95.2	93.5	1.7
SINGLE 141	: 34064 ANITA 8 - 34524 ANITA Y CKT: 1	130.9	128.9	140.0	140.0	95.2	93.5	1.7
SINGLE 2470	: 66509 FTRANDL4 - 66565 SIOUXCY4 CKT: 1	131.1	.....	140.0	.....	95.2	.....	*NEW*
SINGLE 2496	: 66526 UTICAJC4 - 66536 RASMUSN4 CKT: 1	131.1	129.1	140.0	140.0	95.1	93.5	1.6
SINGLE 2451	: 66506 FTTHOMP3 - 67105 LELANDO3 CKT: 1	131.1	129.1	140.0	140.0	95.1	93.5	1.6
SINGLE 2595	: 67101 ANTELOP3 - 67120 HURON 3 CKT: 1	131.1	129.1	140.0	140.0	95.1	93.5	1.6
SINGLE 2613	: 67120 HURON 3 - 67204 BRDLNDTY CKT: 1	131.1	129.1	140.0	140.0	95.1	93.5	1.6
SINGLE 2635	: 67204 BRDLNDTY - 67205 BRDLAND4 CKT: 1	131.1	129.1	140.0	140.0	95.1	93.5	1.6
SINGLE 2482	: 66514 HURON 4 - 67205 BRDLAND4 CKT: 1	131.1	129.1	140.0	140.0	95.1	93.5	1.6
SINGLE 2753	: 34061 BNE JCT5 - 64067 BONDRNT5 CKT: 1	130.0	128.2	140.0	140.0	95.1	93.5	1.6
SINGLE 1131	: 60193 BLUE LK7 - 61477 BLL TR6Y CKT: 6	131.0	128.9	140.0	140.0	95.0	93.3	1.7
SINGLE 115	: 34051 TOLEDO 7 - 34083 BL.PLN.7 CKT: 1	131.0	129.0	140.0	140.0	95.0	93.4	1.6
SINGLE 1130	: 60193 BLUE LK7 - 61476 BLL TR5Y CKT: 5	131.0	129.0	140.0	140.0	95.0	93.4	1.6
SINGLE 3504	: 66441 GARRISN4 - 66457 GARISN1G CKT: 1	131.0	.....	140.0	.....	95.0	.....	*NEW*
SINGLE 3505	: 66441 GARRISN4 - 66458 GARISN2G CKT: 1	131.0	.....	140.0	.....	95.0	.....	*NEW*
SINGLE 152	: 34068 M-TOWN 5 - 34179 JASPER 5 CKT: 1	130.8	128.8	140.0	140.0	94.9	93.4	1.5
SINGLE 145	: 34066 M-TOWN 7 - 34085 BLRSTWN7 CKT: 1	130.8	128.8	140.0	140.0	94.9	93.2	1.7
SINGLE 2462	: 66507 FTTHOMP4 - 66541 BIGBND24 CKT: 1	130.8	128.8	140.0	140.0	94.9	93.2	1.7
SINGLE 2716	: 34016 EMERY 5 - 34911 EMERYGT2 CKT: 1	130.8	128.7	140.0	140.0	94.8	93.2	1.6
SINGLE 2938	: 60200 BLK DG27 - 60013 BLK D73G CKT: 1	130.7	128.7	140.0	140.0	94.8	93.2	1.6
SINGLE 2706	: 34008 FOX LK 5 - 34011 FOXLK53G CKT: 1	130.7	128.7	140.0	140.0	94.8	93.1	1.7
SINGLE 2715	: 34016 EMERY 5 - 34910 EMERYGT1 CKT: 1	130.8	128.7	140.0	140.0	94.8	93.2	1.6
SINGLE 116	: 34052 AMES 7 - 34070 NEVADAT7 CKT: 1	130.4	128.4	140.0	140.0	94.7	93.1	1.6
SINGLE 114	: 34051 TOLEDO 7 - 34066 M-TOWN 7 CKT: 1	130.5	128.5	140.0	140.0	94.7	93.0	1.7
SINGLE 2769	: 34084 PARNEL 5 - 64351 HILLS 5 CKT: 1	130.5	128.5	140.0	140.0	94.6	93.0	1.6
SINGLE 2700	: 6001 YANKEE 7 - 6003 G176 CKT: 1	130.5	128.5	140.0	140.0	94.6	93.0	1.6
SINGLE 117	: 34052 AMES 7 - 34076 BNE JCT7 CKT: 1	130.3	128.4	140.0	140.0	94.6	92.9	1.7
SINGLE 2515	: 66562 EAGLE 4 - 66578 PAHOJA 4 CKT: 1	130.4	128.3	140.0	140.0	94.5	92.9	1.6
SINGLE 3003	: 60331 LKFLDXL3 - 6015 G263 CKT: 1	130.3	128.3	140.0	140.0	94.5	92.8	1.7
SINGLE 1292	: 60287 NOBLES 7 - 60369 FENTON 7 CKT: C	130.3	128.3	140.0	140.0	94.5	92.8	1.7
SINGLE 2494	: 66523 SIOUXFL4 - 66578 PAHOJA 4 CKT: 1	130.3	128.3	140.0	140.0	94.5	92.8	1.7
SINGLE 2739	: 34049 SCRANTN5 - 34165 SCRANTN9 CKT: 1	130.3	128.3	140.0	140.0	94.4	92.7	1.7
SINGLE 2740	: 34050 GU CTR 5 - 34167 GU CTR 9 CKT: 1	130.4	128.4	140.0	140.0	94.4	92.8	1.6
SINGLE 247	: 34137 TRIBOJI5 - 66563 SPENCER5 CKT: 1	130.4	128.1	140.0	140.0	94.4	92.6	1.8
SINGLE 2948	: 60214 HIBRDGE7 - 60010 HIBRD76G CKT: 1	130.1	128.1	140.0	140.0	94.3	92.6	1.7
SINGLE 173	: 34084 PARNEL 5 - 34185 POWESHK5 CKT: 1	130.1	128.2	140.0	140.0	94.3	92.7	1.6
SINGLE 2702	: 6450 PRIMGHAR - 6460 GI0304F1 CKT: 1	130.0	.....	140.0	.....	94.2	.....	*NEW*
SINGLE 3331	: 61475 ANS TR2Y - 60021 ANS 72G CKT: 2	130.0	127.9	140.0	140.0	94.2	92.5	1.7
SINGLE 3332	: 61475 ANS TR2Y - 60022 ANS 73G CKT: 2	130.0	127.9	140.0	140.0	94.2	92.5	1.7
SINGLE 2522	: 66567 DENISON4 - 66583 DENISON8 CKT: 1	129.8	127.8	140.0	140.0	94.2	92.5	1.7
SINGLE 2523	: 66567 DENISON4 - 66583 DENISON8 CKT: 2	129.8	127.8	140.0	140.0	94.2	92.5	1.7
SINGLE 285	: 34179 JASPER 5 - 34211 NEWTON 5 CKT: 1	129.8	127.8	140.0	140.0	94.1	92.5	1.6
SINGLE 2903	: 60110 WILMART7 - 8007 G261-CT2 CKT: 1	129.8	127.7	140.0	140.0	94.0	92.4	1.6
SINGLE 2805	: 34137 TRIBOJI5 - 63897 G298SYS CKT: 1	129.8	127.8	140.0	140.0	94.0	92.4	1.6
SINGLE 2902	: 60110 WILMART7 - 8006 G261-CT1 CKT: 1	129.8	127.7	140.0	140.0	94.0	92.4	1.6
SINGLE 3400	: 63049 STANTON4 - 63002 STANT41G CKT: 1	129.7	.....	140.0	.....	93.9	.....	*NEW*
SINGLE 2461	: 66507 FTTHOMP4 - 66540 BIGBND14 CKT: 1	129.3	127.2	140.0	140.0	93.6	91.9	1.7
SINGLE 2704	: 34006 LAKEFLD3 - 63875 RAUN 3 CKT: 1	129.0	127.0	140.0	140.0	93.5	91.9	1.6
SINGLE 300	: 34185 POWESHK5 - 34191 REASNOR5 CKT: 1	129.1	127.1	140.0	140.0	93.5	91.9	1.6
SINGLE 2855	: 34525 GR JCT Y - 34164 GR JCT 9 CKT: 1	129.1	127.1	140.0	140.0	93.5	91.8	1.7
SINGLE 121	: 34054 GR JCT 5 - 34525 GR JCT Y CKT: 1	129.1	127.1	140.0	140.0	93.5	91.8	1.7
SINGLE 163	: 34079 TRAER 5 - 34087 DYSART 5 CKT: 1	128.9	126.9	140.0	140.0	93.4	91.7	1.7

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SINGLE 151  : 34068 M-TOWN 5 - 34079 TRAER  5 CKT: 1   129.0   127.0   140.0   140.0    93.4    91.8     1.6
SINGLE 3006 : 60331 LKFLDXL3 - 63093 LGS  56Y CKT: 1   128.9   126.9   140.0   140.0    93.3    91.7     1.6
SINGLE 3004 : 60331 LKFLDXL3 - 63091 LGS  12Y CKT: 1   128.9   126.9   140.0   140.0    93.3    91.7     1.6
SINGLE 3005 : 60331 LKFLDXL3 - 63092 LGS  34Y CKT: 1   128.9   126.9   140.0   140.0    93.3    91.7     1.6
SINGLE 2699 :  6001 YANKEE 7 -  6002 YANKGEN  CKT: 1   128.8   126.8   140.0   140.0    93.2    91.6     1.6
SINGLE 3020 : 60369 FENTON 7 -  6036 G162     CKT: 1   128.6   126.6   140.0   140.0    93.1    91.4     1.7
SINGLE 2749 : 34058 PERRY  5 - 64189 NEANKNY5 CKT: 1   127.6   125.8   140.0   140.0    93.1    91.6     1.5
SINGLE 2703 : 34006 LAKEFLD3 -  3400 G164     CKT: 1   128.4   126.3   140.0   140.0    92.9    91.2     1.7
SINGLE 2705 : 34007 LAKEFLD5 -  6006 G262     CKT: 1   128.3   126.3   140.0   140.0    92.8    91.2     1.6
SINGLE 2973 : 60287 NOBLES 7 -  6430 G287     CKT: 1   128.3   126.3   140.0   140.0    92.8    91.2     1.6
SINGLE 108  : 34047 ANTA TP5 - 66560 CRESTON5 CKT: 1   127.4   125.6   140.0   140.0    92.6    91.0     1.6
SINGLE 940  : 60015 ANSON CG - 60129 SPLT RK7 CKT: 1   127.7   125.7   140.0   140.0    92.4    90.7     1.7
SINGLE 941  : 60015 ANSON CG - 61475 ANS TR2Y CKT: 2   127.7   125.7   140.0   140.0    92.4    90.7     1.7
SINGLE 1008 : 60130 SPLTRTA3 - 66537 WHITE  3 CKT: 1   127.6   125.5   140.0   140.0    92.3    90.6     1.7
SINGLE 1001 : 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1   127.6   125.5   140.0   140.0    92.3    90.6     1.7
SINGLE 1009 : 60131 SPLTRTB3 - 66564 SIOUXCY3 CKT: 1   127.1   125.1   140.0   140.0    92.0    90.3     1.7
SINGLE 1002 : 60126 SPLT RK3 - 60131 SPLTRTB3 CKT: 1   127.1   125.1   140.0   140.0    92.0    90.3     1.7
SINGLE 22   : 34007 LAKEFLD5 - 34137 TRIBOJI5 CKT: 1   .....   129.1   .....   140.0   .....    93.4  *ELIM*
SINGLE 53   : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1   .....   134.6   .....   140.0   .....    98.0  *ELIM*
SINGLE 707  : 34606 GRNL CT8 - 34607 GRNCTTP8 CKT: 1   .....   131.1   .....   140.0   .....    95.2  *ELIM*
SINGLE 2956 : 60240 RIVRSID7 - 60008 RIVRS78G CKT: 1   .....   127.4   .....   140.0   .....    92.1  *ELIM*
SINGLE 3360 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1   .....   136.0   .....   140.0   .....    99.2  *ELIM*
*** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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 16) 34059 BOONE  7 - 34163 BOONE  9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 2751 : 34059 BOONE  7 - 34163 BOONE  9 CKT: 2    73.7    73.7    36.0    36.0   204.7   204.6     0.1
BASE CASE   : **       BASE CASE      **                36.2    36.2    36.0    36.0   100.6   100.6     0.0

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 17) 34066 M-TOWN 7 - 34085 BLRSTWN7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 114  : 34051 TOLEDO 7 - 34066 M-TOWN 7 CKT: 1    81.0    79.9    60.0    60.0   128.6   126.9     1.7
SINGLE 163  : 34079 TRAER  5 - 34087 DYSART 5 CKT: 1    79.4    78.3    60.0    60.0   126.1   124.3     1.8
SINGLE 151  : 34068 M-TOWN 5 - 34079 TRAER  5 CKT: 1    77.7    76.6    60.0    60.0   123.3   121.6     1.7
SINGLE 115  : 34051 TOLEDO 7 - 34083 BL.PLN.7 CKT: 1    76.1    75.0    60.0    60.0   120.7   119.1     1.6
SINGLE 153  : 34068 M-TOWN 5 - 34528 M-TOWN Y CKT: 1    75.2    74.3    60.0    60.0   119.3   118.0     1.3
SINGLE 147  : 34066 M-TOWN 7 - 34528 M-TOWN Y CKT: 1    75.2    74.3    60.0    60.0   119.3   118.0     1.3
SINGLE 2782 : 34099 PRAR CK7 - 34098 PR CRK4G CKT: 1    74.6    73.8    60.0    60.0   118.9   117.4     1.5
SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1    74.1    73.1    60.0    60.0   118.8   117.1     1.7
SINGLE 172  : 34083 BL.PLN.7 - 34095 STON PT7 CKT: 1    71.6    70.6    60.0    60.0   114.0   112.3     1.7
SINGLE 178  : 34091 ARNOLD 5 - 34105 HIAWATA5 CKT: 1    71.6    70.7    60.0    60.0   113.6   112.2     1.4
SINGLE 177  : 34089 VINTON 5 - 34091 ARNOLD 5 CKT: 1    71.3    70.2    60.0    60.0   113.2   111.5     1.7
SINGLE 176  : 34087 DYSART 5 - 34089 VINTON 5 CKT: 1    70.6    69.6    60.0    60.0   112.2   110.4     1.8
SINGLE 179  : 34091 ARNOLD 5 - 34111 FAIRFAX5 CKT: 1    70.5    69.6    60.0    60.0   111.9   110.5     1.4
SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    69.5    68.5    60.0    60.0   110.5   108.8     1.7
SINGLE 300  : 34185 POWESHK5 - 34191 REASNOR5 CKT: 1    69.6    68.6    60.0    60.0   110.5   108.9     1.6
SINGLE 60   : 34020 HAZL S 5 - 34135 DUNDEE 5 CKT: 1    69.5    68.6    60.0    60.0   110.4   108.9     1.5
SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1    68.9    67.9    60.0    60.0   109.7   108.1     1.6
SINGLE 173  : 34084 PARNEL 5 - 34185 POWESHK5 CKT: 1    68.9    68.0    60.0    60.0   109.4   107.9     1.5
SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    68.5    67.6    60.0    60.0   108.9   107.3     1.6
SINGLE 185  : 34097 6 ST   7 - 34527 6 ST   Y CKT: 1    68.5    67.5    60.0    60.0   108.7   107.2     1.5
SINGLE 149  : 34067 6 ST   5 - 34527 6 ST   Y CKT: 1    68.5    67.5    60.0    60.0   108.7   107.2     1.5
SINGLE 148  : 34067 6 ST   5 - 34091 ARNOLD 5 CKT: 1    68.5    67.5    60.0    60.0   108.7   107.2     1.5
SINGLE 2894 : 60102 ADAMS  3 - 63032 PL VLLY3 CKT: 1    68.4    67.4    60.0    60.0   108.7   107.1     1.6
SINGLE 197  : 34107 BEVERLY5 - 34111 FAIRFAX5 CKT: 1    68.3    67.4    60.0    60.0   108.4   106.9     1.5
SINGLE 189  : 34101 HIAWATA7 - 34103 MARION 7 CKT: 1    68.1    67.2    60.0    60.0   108.1   106.6     1.5
SINGLE 2769 : 34084 PARNEL 5 - 64351 HILLS  5 CKT: 1    68.1    67.1    60.0    60.0   108.1   106.6     1.5
SINGLE 285  : 34179 JASPER 5 - 34211 NEWTON 5 CKT: 1    68.0    67.0    60.0    60.0   107.9   106.4     1.5
SINGLE 194  : 34106 PCI    5 - 34107 BEVERLY5 CKT: 1    67.6    66.7    60.0    60.0   107.4   105.9     1.5
SINGLE 46   : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1    67.5    66.6    60.0    60.0   107.4   105.8     1.6
SINGLE 150  : 34068 M-TOWN 5 - 34069 TIMBRCK5 CKT: 1    67.5    66.6    60.0    60.0   107.1   105.7     1.4
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SINGLE 190	: 34101 HIAWATA7 - 34535 HIAWATAY CKT: 1	67.3	66.4	60.0	60.0	106.9	105.4	1.5
SINGLE 193	: 34105 HIAWATA5 - 34535 HIAWATAY CKT: 1	67.3	66.4	60.0	60.0	106.9	105.4	1.5
SINGLE 2758	: 34065 NEVADA 7 - 34161 NEVADA 9 CKT: 1	67.3	66.4	60.0	60.0	106.8	105.3	1.5
SINGLE 143	: 34065 NEVADA 7 - 34070 NEVADAT7 CKT: 1	67.3	66.4	60.0	60.0	106.8	105.3	1.5
SINGLE 2741	: 34051 TOLEDO 7 - 34154 TOLEDO 9 CKT: 1	67.2	66.3	60.0	60.0	106.6	105.2	1.4
SINGLE 2730	: 34036 ROCK CK3 - 36382 QUAD ; CKT: 1	67.0	66.1	60.0	60.0	106.4	105.0	1.4
SINGLE 158	: 34074 WELSBRG7 - 34169 WELSBGT7 CKT: 1	66.7	65.8	60.0	60.0	105.9	104.5	1.4
SINGLE 2856	: 34530 WELSBRGY - 63734 WELSBRG8 CKT: 1	66.7	65.8	60.0	60.0	105.9	104.5	1.4
SINGLE 159	: 34074 WELSBRG7 - 34530 WELSBRGY CKT: 1	66.7	65.8	60.0	60.0	105.9	104.5	1.4
SINGLE 292	: 34182 WAPELLO5 - 34183 JEFF 5 CKT: 1	66.7	65.7	60.0	60.0	105.8	104.4	1.4
SINGLE 42	: 34014 ADAMS 5 - 34015 LIME CK5 CKT: 1	66.6	65.6	60.0	60.0	105.7	104.2	1.5
SINGLE 330	: 34203 GRINNEL8 - 34607 GRNCTTP8 CKT: 1	66.6	65.7	60.0	60.0	105.7	104.3	1.4
SINGLE 2733	: 34042 BVR CH65 - 34039 BVRCH52G CKT: 1	66.6	65.7	60.0	60.0	105.7	104.2	1.5
SINGLE 2854	: 34523 HILLSIEY - 64350 HILLS 3 CKT: 1	66.5	65.7	60.0	60.0	105.6	104.2	1.4
SINGLE 201	: 34110 HILLSIE5 - 34523 HILLSIEY CKT: 1	66.5	65.7	60.0	60.0	105.6	104.2	1.4
SINGLE 199	: 34109 BERTRAM5 - 34110 HILLSIE5 CKT: 1	66.5	65.7	60.0	60.0	105.6	104.2	1.4
BASE CASE	: ** BASE CASE **	65.4	64.5	60.0	60.0	103.9	102.4	1.5
SINGLE 131	: 34058 PERRY 5 - 34179 JASPER 5 CKT: 1	64.4	.....	60.0	.....	102.3	.....	*NEW*
SINGLE 110	: 34048 ANITA 5 - 34050 GU CTR 5 CKT: 1	64.4	63.5	60.0	60.0	102.2	100.8	1.4
SINGLE 107	: 34047 ANTA TP5 - 34048 ANITA 5 CKT: 1	64.4	63.5	60.0	60.0	102.2	100.8	1.4
SINGLE 3521	: 66506 FTTHOMP3 - 66571 GR ISLD3 CKT: 1	64.4	.....	60.0	.....	102.2	.....	*NEW*
SINGLE 213	: 34116 W.BRCH 7 - 34117 SUTLIFF7 CKT: 1	64.3	63.4	60.0	60.0	102.1	100.6	1.5
SINGLE 3004	: 60331 LKFLDXL3 - 63091 LGS 12Y CKT: 1	64.3	63.4	60.0	60.0	102.1	100.6	1.5
SINGLE 3005	: 60331 LKFLDXL3 - 63092 LGS 34Y CKT: 1	64.3	63.4	60.0	60.0	102.1	100.6	1.5
SINGLE 3006	: 60331 LKFLDXL3 - 63093 LGS 56Y CKT: 1	64.3	63.4	60.0	60.0	102.1	100.6	1.5
SINGLE 2790	: 34116 W.BRCH 7 - 34147 W.BRCH 9 CKT: 1	64.3	63.4	60.0	60.0	102.1	100.6	1.5
SINGLE 2699	: 6001 YANKEE 7 - 6002 YANKGEN CKT: 1	64.2	63.3	60.0	60.0	101.9	100.5	1.4
SINGLE 2704	: 34006 LAKEFLD3 - 63875 RAUN 3 CKT: 1	64.2	63.3	60.0	60.0	101.9	100.4	1.5
SINGLE 709	: 34606 GRNL CT8 - 34607 GRNCTTP8 CKT: 1	64.2	63.3	60.0	60.0	101.9	100.4	1.5
SINGLE 3020	: 60369 FENTON 7 - 6036 G162 CKT: 1	64.2	63.3	60.0	60.0	101.9	100.4	1.5
SINGLE 2461	: 66507 FTTHOMP4 - 66540 BIGBND14 CKT: 1	64.2	63.3	60.0	60.0	101.9	100.5	1.4
SINGLE 120	: 34054 GR JCT 5 - 34058 PERRY 5 CKT: 1	64.1	63.3	60.0	60.0	101.8	100.4	1.4
SINGLE 2973	: 60287 NOBLES 7 - 6430 G287 CKT: 1	64.0	63.1	60.0	60.0	101.7	100.2	1.5
SINGLE 2703	: 34006 LAKEFLD3 - 3400 G164 CKT: 1	64.1	63.2	60.0	60.0	101.7	100.3	1.4
SINGLE 2705	: 34007 LAKEFLD5 - 6006 G262 CKT: 1	64.1	63.2	60.0	60.0	101.7	100.3	1.4
SINGLE 1001	: 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1	64.0	63.1	60.0	60.0	101.6	100.1	1.5
SINGLE 1008	: 60130 SPLTRTA3 - 66537 WHITE 3 CKT: 1	64.0	63.1	60.0	60.0	101.5	100.1	1.4
SINGLE 2520	: 66565 SIOUXCY4 - 66567 DENISON4 CKT: 1	64.0	63.1	60.0	60.0	101.5	100.1	1.4
SINGLE 1009	: 60131 SPLTRTB3 - 66564 SIOUXCY3 CKT: 1	63.8	62.9	60.0	60.0	101.3	99.8	1.5
SINGLE 940	: 60015 ANSON CG - 60129 SPLT RK7 CKT: 1	63.8	62.9	60.0	60.0	101.3	99.9	1.4
SINGLE 1002	: 60126 SPLT RK3 - 60131 SPLTRTB3 CKT: 1	63.8	62.9	60.0	60.0	101.3	99.8	1.5
SINGLE 941	: 60015 ANSON CG - 61475 ANS TR2Y CKT: 2	63.8	62.9	60.0	60.0	101.3	99.9	1.4
SINGLE 186	: 34099 PRAR CK7 - 34103 MARION 7 CKT: 1	63.7	62.7	60.0	60.0	101.1	99.6	1.5
SINGLE 2715	: 34016 EMERY 5 - 34910 EMERYGT1 CKT: 1	63.6	62.7	60.0	60.0	100.9	99.5	1.4
SINGLE 2716	: 34016 EMERY 5 - 34911 EMERYGT2 CKT: 1	63.6	62.7	60.0	60.0	100.9	99.5	1.4
SINGLE 2744	: 34054 GR JCT 5 - 63771 DRAGER 5 CKT: 1	63.4	62.6	60.0	60.0	100.7	99.3	1.4
SINGLE 2754	: 34061 BNE JCT5 - 64205 FT.DODG5 CKT: 1	63.2	62.3	60.0	60.0	100.3	98.8	1.5
SINGLE 216	: 34121 E CALMS7 - 34539 E CALMSY CKT: 1	62.9	62.1	60.0	60.0	99.9	98.5	1.4
SINGLE 220	: 34122 E CALMS5 - 34539 E CALMSY CKT: 1	62.9	62.1	60.0	60.0	99.9	98.5	1.4
SINGLE 215	: 34120 CALAMUS7 - 34121 E CALMS7 CKT: 1	62.9	62.1	60.0	60.0	99.9	98.5	1.4
SINGLE 2821	: 34191 REASNOR5 - 64062 DMOINES5 CKT: 1	62.8	61.9	60.0	60.0	99.6	98.3	1.3
SINGLE 2785	: 34105 HIAWATA5 - 34112 HIAWATA9 CKT: 1	62.7	61.8	60.0	60.0	99.5	98.1	1.4
SINGLE 2813	: 34179 JASPER 5 - 64189 NEANKNY5 CKT: 1	62.6	61.8	60.0	60.0	99.4	98.1	1.3
SINGLE 2924	: 60160 SHERCO 3 - 60002 SHERC33G CKT: 1	62.5	61.6	60.0	60.0	99.2	97.8	1.4
SINGLE 146	: 34066 M-TOWN 7 - 34169 WELSBGT7 CKT: 1	62.3	61.4	60.0	60.0	98.8	97.5	1.3
SINGLE 214	: 34117 SUTLIFF7 - 34120 CALAMUS7 CKT: 1	62.2	61.3	60.0	60.0	98.7	97.3	1.4
SINGLE 227	: 34126 MQOKETA5 - 34127 WYOMING5 CKT: 1	62.2	61.3	60.0	60.0	98.7	97.3	1.4
SINGLE 152	: 34068 M-TOWN 5 - 34179 JASPER 5 CKT: 1	62.1	61.4	60.0	60.0	98.5	97.5	1.0
SINGLE 116	: 34052 AMES 7 - 34070 NEVADAT7 CKT: 1	61.9	61.1	60.0	60.0	98.3	97.0	1.3
SINGLE 161	: 34075 ELDORA 7 - 34169 WELSBGT7 CKT: 1	61.9	61.0	60.0	60.0	98.2	96.9	1.3
SINGLE 117	: 34052 AMES 7 - 34076 BNE JCT7 CKT: 1	61.2	60.3	60.0	60.0	97.1	95.8	1.3
SINGLE 160	: 34075 ELDORA 7 - 34077 IA FALS7 CKT: 1	61.0	60.1	60.0	60.0	96.8	95.4	1.4
SINGLE 188	: 34099 PRAR CK7 - 34117 SUTLIFF7 CKT: 1	60.9	60.0	60.0	60.0	96.6	95.2	1.4

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 SINGLE 119  : 34053 MT VERN5 - 34127 WYOMING5 CKT: 1    60.9    60.0    60.0    60.0    96.6    95.2     1.4
 SINGLE 174  : 34085 BLRSTWN7 - 34086 WILMSBG7 CKT: 1    60.2    59.3    60.0    60.0    95.6    94.2     1.4
 SINGLE 118  : 34053 MT VERN5 - 34109 BERTRAM5 CKT: 1    59.8    58.9    60.0    60.0    95.0    93.5     1.5
 SINGLE 2775 : 34093 ARNOLD 3 - 64352 TIFFIN 3 CKT: 1    59.4    58.6    60.0    60.0    94.4    93.1     1.3
 SINGLE 2860 : 34571 FRNKLN_Y - 64239 FRANKLN5 CKT: 1    58.5    57.7    60.0    60.0    92.9    91.5     1.4
 SINGLE 156  : 34072 FRNKLIN7 - 34571 FRNKLN_Y CKT: 1    58.5    57.7    60.0    60.0    92.9    91.5     1.4
 SINGLE 155  : 34072 FRNKLIN7 - 34077 IA FALS7 CKT: 1    58.5    57.7    60.0    60.0    92.9    91.5     1.4
 SINGLE 53   : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1   .....    73.3   .....    60.0   .....   116.6  *ELIM*
 SINGLE 3360 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1   .....    67.7   .....    60.0   .....   107.5  *ELIM*
 *** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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 18) 34075 ELDORA 7 - 34077 IA FALS7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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 SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1    73.9    73.2    60.0    60.0   124.3   122.9     1.4
 SINGLE 2719 : 34016 EMERY  5 - 64252 FLOYD  5 CKT: 1    73.1    72.4    60.0    60.0   122.8   121.5     1.3
 SINGLE 55   : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1    73.3    72.5    60.0    60.0   122.1   120.6     1.5
 SINGLE 2759 : 34066 M-TOWN 7 - 34088 M-TOWN3G CKT: 1    72.0    71.4    60.0    60.0   119.6   118.5     1.1
 SINGLE 46   : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1    71.7    70.9    60.0    60.0   119.3   117.9     1.4
 SINGLE 2754 : 34061 BNE JCT5 - 64205 FT.DODG5 CKT: 1    71.4    70.6    60.0    60.0   118.5   117.1     1.4
 SINGLE 117  : 34052 AMES   7 - 34076 BNE JCT7 CKT: 1    69.6    68.8    60.0    60.0   115.5   114.1     1.4
 SINGLE 116  : 34052 AMES   7 - 34070 NEVADAT7 CKT: 1    69.0    68.2    60.0    60.0   114.5   113.1     1.4
 SINGLE 42   : 34014 ADAMS  5 - 34015 LIME CK5 CKT: 1    68.8    68.0    60.0    60.0   114.3   112.8     1.5
 SINGLE 2821 : 34191 REASNOR5 - 64062 DMOINES5 CKT: 1    68.7    67.9    60.0    60.0   114.0   112.7     1.3
 SINGLE 152  : 34068 M-TOWN 5 - 34179 JASPER 5 CKT: 1    68.6    67.7    60.0    60.0   113.9   112.3     1.6
 SINGLE 2774 : 34091 ARNOLD 5 - 34090 ARNOLD1G CKT: 1    68.0    67.5    60.0    60.0   113.8   112.6     1.2
 SINGLE 2813 : 34179 JASPER 5 - 64189 NEANKNY5 CKT: 1    68.5    67.7    60.0    60.0   113.6   112.3     1.3
 SINGLE 2744 : 34054 GR JCT 5 - 63771 DRAGER 5 CKT: 1    68.2    67.4    60.0    60.0   113.2   111.9     1.3
 SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1    67.9    67.3    60.0    60.0   113.1   112.1     1.0
 885         : ** MULTIPLE CONTINGENCY **                67.7    67.0    60.0    60.0   112.5   111.3     1.2
             : 69507 SENECA 5 - 69511 BELLCTR5 CKT: 1
             : 69507 SENECA 5 - 69523 GENOA  5 CKT: 1
 SINGLE 2782 : 34099 PRAR CK7 - 34098 PR CRK4G CKT: 1    67.5    66.9    60.0    60.0   112.3   111.2     1.1
 SINGLE 120  : 34054 GR JCT 5 - 34058 PERRY  5 CKT: 1    67.7    66.9    60.0    60.0   112.3   111.0     1.3
 SINGLE 2820 : 34189 OTTUMWA5 - 34146 OTTUMW1G CKT: 1    67.5    66.9    60.0    60.0   112.2   111.0     1.2
 SINGLE 60   : 34020 HAZL S 5 - 34135 DUNDEE 5 CKT: 1    67.7    66.9    60.0    60.0   112.0   110.7     1.3
 SINGLE 2721 : 34019 HAZLTON5 - 64250 BLKHAWK5 CKT: 1    67.2    66.5    60.0    60.0   111.9   110.6     1.3
 SINGLE 2520 : 66565 SIOUXCY4 - 66567 DENISON4 CKT: 1    67.2    66.5    60.0    60.0   111.6   110.3     1.3
 SINGLE 35   : 34010 HAYWARD5 - 34015 LIME CK5 CKT: 1    67.1    66.3    60.0    60.0   111.3   110.0     1.3
 SINGLE 109  : 34047 ANTA TP5 - 66561 DENISON5 CKT: 1    67.0    66.3    60.0    60.0   111.3   110.0     1.3
 SINGLE 2713 : 34014 ADAMS  5 - 69526 BVR CRK5 CKT: 1    67.0    66.3    60.0    60.0   111.3   110.0     1.3
 SINGLE 2513 : 66561 DENISON5 - 66567 DENISON4 CKT: 1    67.0    66.3    60.0    60.0   111.2   109.9     1.3
 SINGLE 131  : 34058 PERRY  5 - 34179 JASPER 5 CKT: 1    67.0    66.2    60.0    60.0   111.1   109.8     1.3
 BASE CASE   : **       BASE CASE      **                65.9    65.2    60.0    60.0   109.4   108.1     1.3
 SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1    64.9   .....    60.0   .....   108.0   .....   *NEW*
 SINGLE 143  : 34065 NEVADA 7 - 34070 NEVADAT7 CKT: 1    64.9    64.2    60.0    60.0   107.7   106.5     1.2
 SINGLE 119  : 34053 MT VERN5 - 34127 WYOMING5 CKT: 1    64.9    64.2    60.0    60.0   107.7   106.4     1.3
 SINGLE 2758 : 34065 NEVADA 7 - 34161 NEVADA 9 CKT: 1    64.9    64.2    60.0    60.0   107.7   106.5     1.2
 SINGLE 2699 :  6001 YANKEE 7 -  6002 YANKGEN  CKT: 1    64.9    64.2    60.0    60.0   107.6   106.3     1.3
 SINGLE 3573 : 66751 CENTER 4 - 66749 CENTER1G CKT: 1    64.8    64.1    60.0    60.0   107.5   106.2     1.3
 SINGLE 3020 : 60369 FENTON 7 -  6036 G162     CKT: 1    64.9    64.2    60.0    60.0   107.5   106.2     1.3
 SINGLE 3540 : 66537 WHITE  3 -  6653 GI0108   CKT: 1    64.9    64.2    60.0    60.0   107.5   106.2     1.3
 SINGLE 2903 : 60110 WILMART7 -  8007 G261-CT2 CKT: 1    64.8    64.1    60.0    60.0   107.4   106.1     1.3
 SINGLE 2948 : 60214 HIBRDGE7 - 60010 HIBRD76G CKT: 1    64.8    64.1    60.0    60.0   107.4   106.1     1.3
 SINGLE 33   : 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1    64.7    64.0    60.0    60.0   107.4   106.2     1.2
 SINGLE 176  : 34087 DYSART 5 - 34089 VINTON 5 CKT: 1    64.7    64.1    60.0    60.0   107.4   106.3     1.1
 SINGLE 2902 : 60110 WILMART7 -  8006 G261-CT1 CKT: 1    64.8    64.1    60.0    60.0   107.4   106.1     1.3
 SINGLE 2973 : 60287 NOBLES 7 -  6430 G287     CKT: 1    64.8    64.1    60.0    60.0   107.3   106.1     1.2
 SINGLE 3004 : 60331 LKFLDXL3 - 63091 LGS  12Y CKT: 1    64.7    64.0    60.0    60.0   107.3   106.0     1.3
 SINGLE 3005 : 60331 LKFLDXL3 - 63092 LGS  34Y CKT: 1    64.7    64.0    60.0    60.0   107.3   106.0     1.3
 SINGLE 3006 : 60331 LKFLDXL3 - 63093 LGS  56Y CKT: 1    64.7    64.0    60.0    60.0   107.3   106.0     1.3
 SINGLE 177  : 34089 VINTON 5 - 34091 ARNOLD 5 CKT: 1    64.6    63.9    60.0    60.0   107.2   106.0     1.2
 SINGLE 187  : 34099 PRAR CK7 - 34108 BERTRAM7 CKT: 1    64.6    63.9    60.0    60.0   107.2   106.0     1.2
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SINGLE 198  : 34108 BERTRAM7 - 34537 BERTRAMY CKT: 1    64.6    63.9    60.0    60.0   107.2   106.0     1.2
SINGLE 200  : 34109 BERTRAM5 - 34537 BERTRAMY CKT: 1    64.6    63.9    60.0    60.0   107.2   106.0     1.2
SINGLE 940  : 60015 ANSON CG - 60129 SPLT RK7 CKT: 1    64.7    64.0    60.0    60.0   107.2   105.9     1.3
SINGLE 941  : 60015 ANSON CG - 61475 ANS TR2Y CKT: 2    64.7    64.0    60.0    60.0   107.2   105.9     1.3
SINGLE 118  : 34053 MT VERN5 - 34109 BERTRAM5 CKT: 1    64.6    63.9    60.0    60.0   107.2   106.0     1.2
SINGLE 2703 : 34006 LAKEFLD3 -  3400 G164     CKT: 1    64.6    63.9    60.0    60.0   107.1   105.8     1.3
SINGLE 150  : 34068 M-TOWN 5 - 34069 TIMBRCK5 CKT: 1    64.6    63.9    60.0    60.0   107.1   105.9     1.2
SINGLE 2741 : 34051 TOLEDO 7 - 34154 TOLEDO 9 CKT: 1    64.5    63.8    60.0    60.0   107.0   105.7     1.3
SINGLE 2705 : 34007 LAKEFLD5 -  6006 G262     CKT: 1    64.5    63.8    60.0    60.0   106.9   105.6     1.3
SINGLE 2720 : 34017 CGORDO_5 - 34414 CGORDO1G CKT: 1    64.4    63.7    60.0    60.0   106.8   105.5     1.3
SINGLE 2958 : 60240 RIVRSID7 - 60008 RIVRS78G CKT: 1    64.4    63.7    60.0    60.0   106.7   105.5     1.2
SINGLE 2772 : 34087 DYSART 5 - 64269 WASHBRN5 CKT: 1    64.0    63.3    60.0    60.0   106.5   105.2     1.3
SINGLE 300  : 34185 POWESHK5 - 34191 REASNOR5 CKT: 1    64.2    63.5    60.0    60.0   106.5   105.3     1.2
SINGLE 3596 : 67131 LARAMIE3 - 67118 LARAM31G CKT: 1    64.3    63.6    60.0    60.0   106.5   105.2     1.3
SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1    63.9   .....    60.0   .....   106.5   .....   *NEW*
SINGLE 285  : 34179 JASPER 5 - 34211 NEWTON 5 CKT: 1    64.2    63.5    60.0    60.0   106.4   105.2     1.2
SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1    64.0    63.3    60.0    60.0   106.1   104.9     1.2
SINGLE 3589 : 67101 ANTELOP3 - 67103 ANTEL31G CKT: 1    64.0    63.3    60.0    60.0   106.0   104.8     1.2
SINGLE 3590 : 67101 ANTELOP3 - 67107 ANTEL32G CKT: 1    64.0    63.3    60.0    60.0   106.0   104.8     1.2
SINGLE 3592 : 67105 LELANDO3 - 67111 LELAN32G CKT: 1    63.9    63.2    60.0    60.0   105.9   104.6     1.3
SINGLE 265  : 34157 TRAER  8 - 34532 TRAER  Y CKT: 1    63.8    63.2    60.0    60.0   105.9   104.8     1.1
SINGLE 3622 : 67316 COYOTE 3 - 67315 COYOTE1G CKT: 1    63.9    63.2    60.0    60.0   105.9   104.6     1.3
SINGLE 164  : 34079 TRAER  5 - 34532 TRAER  Y CKT: 1    63.8    63.2    60.0    60.0   105.9   104.8     1.1
SINGLE 2901 : 60108 WILMART3 -  8001 G261-ST  CKT: 1    63.7    63.0    60.0    60.0   105.6   104.3     1.3
SINGLE 2808 : 34157 TRAER  8 - 63734 WELSBRG8 CKT: 1    63.4    62.8    60.0    60.0   105.3   104.1     1.2
SINGLE 3449 : 63314 BIGSTON4 - 63315 BIGSTN1G CKT: 1    63.5    62.8    60.0    60.0   105.1   103.8     1.3
SINGLE 3550 : 66563 SPENCER5 - 63713 OSGOOD 5 CKT: 1    63.2    62.6    60.0    60.0   104.7   103.7     1.0
SINGLE 172  : 34083 BL.PLN.7 - 34095 STON PT7 CKT: 1    63.0    62.4    60.0    60.0   104.7   103.6     1.1
SINGLE 3399 : 63041 COAL CR4 - 63001 COAL 42G CKT: 1    63.2    62.5    60.0    60.0   104.6   103.4     1.2
SINGLE 3398 : 63041 COAL CR4 - 63000 COAL 41G CKT: 1    63.2    62.5    60.0    60.0   104.6   103.4     1.2
SINGLE 2934 : 60186 AS KING3 - 60006 KING 31G CKT: 1    62.9    62.2    60.0    60.0   104.2   103.0     1.2
SINGLE 2897 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1    62.3    61.6    60.0    60.0   103.2   101.9     1.3
SINGLE 2898 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1    62.3    61.6    60.0    60.0   103.2   101.9     1.3
SINGLE 175  : 34085 BLRSTWN7 - 34099 PRAR CK7 CKT: 1    62.2    61.5    60.0    60.0   103.2   102.0     1.2
SINGLE 2917 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1    62.2    61.5    60.0    60.0   103.0   101.7     1.3
SINGLE 2923 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1    62.2    61.5    60.0    60.0   103.0   101.8     1.2
SINGLE 2922 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1    62.2    61.5    60.0    60.0   102.9   101.7     1.2
SINGLE 2762 : 34075 ELDORA 7 - 34158 ELDORA 9 CKT: 1    62.0    61.2    60.0    60.0   102.5   101.2     1.3
SINGLE 115  : 34051 TOLEDO 7 - 34083 BL.PLN.7 CKT: 1    61.5    60.9    60.0    60.0   102.2   101.0     1.2
SINGLE 158  : 34074 WELSBRG7 - 34169 WELSBGT7 CKT: 1    61.9    61.0    60.0    60.0   101.8   100.3     1.5
SINGLE 159  : 34074 WELSBRG7 - 34530 WELSBRGY CKT: 1    61.9    61.0    60.0    60.0   101.8   100.3     1.5
SINGLE 2856 : 34530 WELSBRGY - 63734 WELSBRG8 CKT: 1    61.9    61.0    60.0    60.0   101.8   100.3     1.5
SINGLE 2718 : 34016 EMERY  5 - 63774 SHEFFLD5 CKT: 1    61.0    60.2    60.0    60.0   101.6   100.2     1.4
SINGLE 145  : 34066 M-TOWN 7 - 34085 BLRSTWN7 CKT: 1    60.7    60.0    60.0    60.0   100.7    99.5     1.2
SINGLE 2716 : 34016 EMERY  5 - 34911 EMERYGT2 CKT: 1    60.4    59.7    60.0    60.0   100.1    98.9     1.2
SINGLE 2715 : 34016 EMERY  5 - 34910 EMERYGT1 CKT: 1    60.4    59.7    60.0    60.0   100.1    98.9     1.2
SINGLE 2924 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    60.3    59.6    60.0    60.0    99.7    98.4     1.3
SINGLE 114  : 34051 TOLEDO 7 - 34066 M-TOWN 7 CKT: 1    59.7    59.1    60.0    60.0    99.2    98.0     1.2
SINGLE 151  : 34068 M-TOWN 5 - 34079 TRAER  5 CKT: 1    59.4    58.8    60.0    60.0    98.9    97.8     1.1
SINGLE 147  : 34066 M-TOWN 7 - 34528 M-TOWN Y CKT: 1    59.4    58.6    60.0    60.0    98.6    97.3     1.3
SINGLE 153  : 34068 M-TOWN 5 - 34528 M-TOWN Y CKT: 1    59.4    58.6    60.0    60.0    98.6    97.3     1.3
SINGLE 2717 : 34016 EMERY  5 - 34912 EMERYST1 CKT: 1    57.5    56.8    60.0    60.0    95.1    93.9     1.2
SINGLE 163  : 34079 TRAER  5 - 34087 DYSART 5 CKT: 1    55.7    55.1    60.0    60.0    92.5    91.4     1.1
SINGLE 245  : 34137 TRIBOJI5 - 66563 SPENCER5 CKT: 1   .....    64.2   .....    60.0   .....   106.3  *ELIM*
SINGLE 2987 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1   .....    69.1   .....    60.0   .....   115.0  *ELIM*
*** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

==================================================================================================================
 19) 34086 WILMSBG7 - 34153 WILMSBG9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
SINGLE 2771 : 34086 WILMSBG7 - 34153 WILMSBG9 CKT: 2    18.7    18.7    13.0    13.0   144.2   144.2     0.0
BASE CASE   : **       BASE CASE      **                13.4    13.4    13.0    13.0   103.0   103.0     0.0
```

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==================================================================================================================
  20) 34105 HIAWATA5 - 34112 HIAWATA9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **                86.0    86.0    93.0    93.0    92.4    92.4     0.0

==================================================================================================================
  21) 34113 FAIR   8 - 34870 MONTPELI CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  050    1    : ** MULTIPLE CONTINGENCY **               44.8    44.7    42.0    42.0   106.8   106.4     0.4
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
  050    3    : ** MULTIPLE CONTINGENCY **               44.3    43.9    42.0    42.0   105.5   104.4     1.1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
  050    2    : ** MULTIPLE CONTINGENCY **               44.2    43.9    42.0    42.0   104.9   104.3     0.6
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
  ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **               43.8    43.7    42.0    42.0   104.1   103.7     0.4
              : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
  SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1    43.7    43.3    42.0    42.0   103.6   102.7     0.9
  SINGLE 2733 : 34042 BVR CH65 - 34039 BVRCH52G CKT: 1    42.4    42.3    42.0    42.0   100.2    99.9     0.3
  SINGLE 203  : 34113 FAIR   8 - 34708 PL PRAR  CKT: 1    42.4    42.3    42.0    42.0    99.8    99.6     0.2
  SINGLE 207  : 34114 MUSSWTH8 - 34709 SWTLD TP CKT: 1    42.4    42.3    42.0    42.0    99.8    99.6     0.2
  SINGLE 794  : 34708 PL PRAR  - 34709 SWTLD TP CKT: 1    42.4    42.3    42.0    42.0    99.8    99.6     0.2
  SINGLE 2814 : 34181 BRLGTN 5 - 31340 NIOTA    CKT: 1    42.3    42.2    42.0    42.0    99.6    99.3     0.3
  SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1    41.8    41.6    42.0    42.0    98.6    98.0     0.6
  SINGLE 208  : 34114 MUSSWTH8 - 34711 MUSCAT T CKT: 1    41.6    41.5    42.0    42.0    97.9    97.6     0.3
  SINGLE 204  : 34113 FAIR   8 - 34711 MUSCAT T CKT: 1    41.6    41.5    42.0    42.0    97.9    97.6     0.3
  885         : ** MULTIPLE CONTINGENCY **               41.5    41.4    42.0    42.0    97.8    97.5     0.3
              : 69507 SENECA 5 - 69511 BELLCTR5 CKT: 1
              : 69507 SENECA 5 - 69523 GENOA  5 CKT: 1
  SINGLE 86   : 34036 ROCK CK3 - 34037 ROCK CK5 CKT: 1    41.4    41.2    42.0    42.0    97.6    97.1     0.5
  SINGLE 2730 : 34036 ROCK CK3 - 36382 QUAD ;   CKT: 1    41.3    41.1    42.0    42.0    97.3    96.7     0.6
  SINGLE 118  : 34053 MT VERN5 - 34109 BERTRAM5 CKT: 1    41.3    41.1    42.0    42.0    97.2    96.9     0.3
  SINGLE 170  : 34081 VIELE  5 - 34180 DENMARK5 CKT: 1    41.3    41.2    42.0    42.0    97.1    96.8     0.3
  SINGLE 2774 : 34091 ARNOLD 5 - 34090 ARNOLD1G CKT: 1    41.2    41.0    42.0    42.0    97.0    96.4     0.6
  BASE CASE   : **       BASE CASE      **                40.1    40.0    42.0    42.0    94.2    93.9     0.3
  SINGLE 282  : 34178 HENRYCO5 - 34180 DENMARK5 CKT: 1    38.8    38.7    42.0    42.0    91.2    90.9     0.3

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  22) 34124 DEWITT 5 - 34143 DEWITT 9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **                31.6    31.6    24.0    24.0   131.7   131.7     0.0

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  23) 34125 GR MND 8 - 34540 GR MND Y CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 289  : 34180 DENMARK5 - 34186 NEWPORT5 CKT: 1    24.8    24.8    24.0    24.0   103.3   103.3     0.0
  SINGLE 2818 : 34186 NEWPORT5 - 63667 HWY61  5 CKT: 1    24.5    24.5    24.0    24.0   102.1   102.0     0.1
  BASE CASE   : **       BASE CASE      **                23.0    23.0    24.0    24.0    95.7    95.8    -0.1
  SINGLE 223  : 34125 GR MND 8 - 34819 GRMND TW CKT: 1    21.9    21.9    24.0    24.0    91.3    91.3     0.0
  SINGLE 890  : 34817 DOME TAP - 34819 GRMND TW CKT: 1    21.9    21.9    24.0    24.0    91.2    91.2     0.0
  SINGLE 888  : 34815 DIXON JC - 34817 DOME TAP CKT: 1    21.9    21.9    24.0    24.0    91.1    91.1     0.0
  SINGLE 118  : 34053 MT VERN5 - 34109 BERTRAM5 CKT: 1    21.8    21.8    24.0    24.0    91.0    91.0     0.0
  SINGLE 886  : 34812 BENNETT  - 34815 DIXON JC CKT: 1    21.8    21.8    24.0    24.0    90.8    90.9    -0.1
  SINGLE 86   : 34036 ROCK CK3 - 34037 ROCK CK5 CKT: 1    21.7   .....    24.0   .....    90.4   .....   *NEW*
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 SINGLE 883  : 34810 WILTON J - 34812 BENNETT  CKT: 1    21.6    21.6    24.0    24.0    90.1    90.1     0.0
 SINGLE 2728 : 34036 ROCK CK3 - 36382 QUAD ;   CKT: 1   .....    21.7   .....    24.0   .....    90.3  *ELIM*

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 24) 34127 WYOMING5 - 34141 WYOMING9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
----------------------------------------------------------------------------------------------------------------
 BASE CASE   : **       BASE CASE      **                33.4    33.4    18.0    18.0   185.6   185.6     0.0

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 25) 34129 LIBERTY5 - 34135 DUNDEE 5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
----------------------------------------------------------------------------------------------------------------
 SINGLE 55   : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1   179.8   178.9   167.0   167.0   113.2   112.4     0.8
 SINGLE 2775 : 34093 ARNOLD 3 - 64352 TIFFIN 3 CKT: 1   184.1   182.8   167.0   167.0   112.8   111.9     0.9
 885         : ** MULTIPLE CONTINGENCY **               179.4   178.9   167.0   167.0   111.1   110.7     0.4
             : 69507 SENECA 5 - 69511 BELLCTR5 CKT: 1
             : 69507 SENECA 5 - 69523 GENOA  5 CKT: 1
 050    1    : ** MULTIPLE CONTINGENCY **               166.0   165.9   167.0   167.0   105.7   105.3     0.4
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
 ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **               165.5   165.4   167.0   167.0   104.4   104.1     0.3
             : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
 050    3    : ** MULTIPLE CONTINGENCY **               163.5   162.9   167.0   167.0   103.7   102.9     0.8
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
 SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1   164.2   163.8   167.0   167.0   103.6   103.1     0.5
 SINGLE 239  : 34135 DUNDEE 5 - 34543 DUNDEE2Y CKT: 1   170.3   169.8   167.0   167.0   103.5   103.0     0.5
 SINGLE 251  : 34138 DUNDEE 8 - 34543 DUNDEE2Y CKT: 1   170.3   169.7   167.0   167.0   103.5   103.0     0.5
 SINGLE 2730 : 34036 ROCK CK3 - 36382 QUAD ;   CKT: 1   163.7   163.2   167.0   167.0   101.7   101.4     0.3
 SINGLE 118  : 34053 MT VERN5 - 34109 BERTRAM5 CKT: 1   161.9   161.3   167.0   167.0    99.3    98.8     0.5
 SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   159.8   159.3   167.0   167.0    98.8    98.3     0.5
 SINGLE 231  : 34128 LIBERTY8 - 34507 LIBERTP8 CKT: 1   160.4   159.7   167.0   167.0    97.8    97.3     0.5
 SINGLE 659  : 34496 ALMORE 8 - 34507 LIBERTP8 CKT: 1   160.4   159.8   167.0   167.0    97.8    97.3     0.5
 SINGLE 119  : 34053 MT VERN5 - 34127 WYOMING5 CKT: 1   159.5   158.9   167.0   167.0    97.5    97.1     0.4
 880         : ** MULTIPLE CONTINGENCY **               158.7   158.1   167.0   167.0    97.0    96.5     0.5
             : 69523 GENOA  5 - 69527 HARMONY5 CKT: 1
             : 69523 GENOA  5 - 34021 LANSINGW CKT: 1
 SINGLE 227  : 34126 MQOKETA5 - 34127 WYOMING5 CKT: 1   156.5   156.0   167.0   167.0    95.5    95.0     0.5
 SINGLE 250  : 34138 DUNDEE 8 - 34521 GRELYTP8 CKT: 1   156.1   155.5   167.0   167.0    95.0    94.6     0.4
 SINGLE 939  : 34894 NATIONT8 - 69307 FARMBURG CKT: 1   155.4   154.9   167.0   167.0    94.8    94.3     0.5
 SINGLE 586  : 34427 BIGSPRT8 - 34894 NATIONT8 CKT: 1   155.4   154.9   167.0   167.0    94.8    94.3     0.5
 SINGLE 580  : 34423 MONONA_8 - 69307 FARMBURG CKT: 1   155.6   155.0   167.0   167.0    94.8    94.4     0.4
 SINGLE 660  : 34496 ALMORE 8 - 34521 GRELYTP8 CKT: 1   154.4   153.8   167.0   167.0    94.0    93.5     0.5
 SINGLE 249  : 34138 DUNDEE 8 - 34490 MASONVL8 CKT: 1   154.2   153.6   167.0   167.0    93.9    93.4     0.5
 SINGLE 652  : 34490 MASONVL8 - 34491 PRAIRI_8 CKT: 1   154.1   153.5   167.0   167.0    93.8    93.4     0.4
 SINGLE 75   : 34029 SALEM  3 - 34036 ROCK CK3 CKT: 1   151.1   150.6   167.0   167.0    93.6    93.3     0.3
 SINGLE 77   : 34030 SALEM  5 - 34126 MQOKETA5 CKT: 1   153.8   153.3   167.0   167.0    93.5    93.1     0.4
 SINGLE 653  : 34491 PRAIRI_8 - 34492 MANCIND8 CKT: 1   153.7   153.1   167.0   167.0    93.5    93.1     0.4
 SINGLE 74   : 34029 SALEM  3 - 34030 SALEM  5 CKT: 1   150.8   150.6   167.0   167.0    93.3    93.1     0.2
 SINGLE 188  : 34099 PRAR CK7 - 34117 SUTLIFF7 CKT: 1   152.4   151.9   167.0   167.0    92.9    92.5     0.4
 SINGLE 2713 : 34014 ADAMS  5 - 69526 BVR CRK5 CKT: 1   152.3   151.8   167.0   167.0    92.9    92.5     0.4
 SINGLE 76   : 34030 SALEM  5 - 34031 SO.GVW.5 CKT: 1   151.7   151.3   167.0   167.0    92.9    92.5     0.4
 SINGLE 2785 : 34105 HIAWATA5 - 34112 HIAWATA9 CKT: 1   152.1   151.5   167.0   167.0    92.7    92.2     0.5
 SINGLE 92   : 34038 BVR CH 5 - 34044 ALBANY 5 CKT: 1   152.1   151.6   167.0   167.0    92.7    92.3     0.4
 SINGLE 179  : 34091 ARNOLD 5 - 34111 FAIRFAX5 CKT: 1   152.2   151.6   167.0   167.0    92.7    92.3     0.4
 SINGLE 2724 : 34021 LANSINGW - 69523 GENOA  5 CKT: 1   152.0   151.4   167.0   167.0    92.6    92.2     0.4
 SINGLE 198  : 34108 BERTRAM7 - 34537 BERTRAMY CKT: 1   151.5   150.9   167.0   167.0    92.3    91.8     0.5
 SINGLE 2733 : 34042 BVR CH65 - 34039 BVRCH52G CKT: 1   150.4   149.9   167.0   167.0    92.3    91.9     0.4
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SINGLE 200  : 34109 BERTRAM5 - 34537 BERTRAMY CKT: 1   151.5   150.9   167.0   167.0    92.3    91.8     0.5
SINGLE 187  : 34099 PRAR CK7 - 34108 BERTRAM7 CKT: 1   151.5   150.9   167.0   167.0    92.3    91.8     0.5
SINGLE 86   : 34036 ROCK CK3 - 34037 ROCK CK5 CKT: 1   150.5   149.9   167.0   167.0    92.1    91.6     0.5
SINGLE 214  : 34117 SUTLIFF7 - 34120 CALAMUS7 CKT: 1   151.3   150.7   167.0   167.0    92.1    91.7     0.4
SINGLE 79   : 34031 SO.GVW.5 - 34032 8TH ST.5 CKT: 1   150.4   149.9   167.0   167.0    91.9    91.6     0.3
SINGLE 237  : 34133 DUNDEE 7 - 34542 DUNDEE1Y CKT: 1   151.8   151.2   167.0   167.0    91.9    91.5     0.4
SINGLE 238  : 34135 DUNDEE 5 - 34542 DUNDEE1Y CKT: 1   151.8   151.2   167.0   167.0    91.9    91.5     0.4
SINGLE 2849 : 34423 MONONA_8 - 68748 POST     CKT: 1   150.9   150.3   167.0   167.0    91.9    91.5     0.4
SINGLE 197  : 34107 BEVERLY5 - 34111 FAIRFAX5 CKT: 1   150.8   150.3   167.0   167.0    91.9    91.5     0.4
SINGLE 585  : 34427 BIGSPRT8 - 34452 ELKADER8 CKT: 1   150.8   150.2   167.0   167.0    91.9    91.4     0.5
X0897-0898O1: ** MULTIPLE CONTINGENCY **               150.3   149.7   167.0   167.0    91.8    91.4     0.4
            : 60215 HYLNDLK7 - 60193 BLUE LK7 CKT: 1
            : 60215 HYLNDLK7 - 60261 DEANLAK7 CKT: 1
            : 60261 DEANLAK7 - 60244 SCOTTCO7 CKT: 1
SINGLE 216  : 34121 E CALMS7 - 34539 E CALMSY CKT: 1   150.6   150.0   167.0   167.0    91.7    91.2     0.5
SINGLE 220  : 34122 E CALMS5 - 34539 E CALMSY CKT: 1   150.6   150.0   167.0   167.0    91.7    91.2     0.5
SINGLE 215  : 34120 CALAMUS7 - 34121 E CALMS7 CKT: 1   150.6   150.0   167.0   167.0    91.7    91.2     0.5
SINGLE 654  : 34492 MANCIND8 - 34493 DELEWAR8 CKT: 1   150.6   150.0   167.0   167.0    91.7    91.3     0.4
SINGLE 619  : 34452 ELKADER8 - 34453 GARNVLO8 CKT: 1   150.2   149.7   167.0   167.0    91.5    91.1     0.4
SINGLE 2993 : 60309 MRSHLND5 - 69543 ALMA   5 CKT: 1   150.2   149.7   167.0   167.0    91.5    91.1     0.4
SINGLE 194  : 34106 PCI     5 - 34107 BEVERLY5 CKT: 1   150.3   149.7   167.0   167.0    91.5    91.1     0.4
MOL-RIV/CNC7: ** MULTIPLE CONTINGENCY **               149.9   149.4   167.0   167.0    91.5    91.1     0.4
            : 60229 MOORELK7 - 60203 COON CK7 CKT: 1
            : 60229 MOORELK7 - 60240 RIVRSID7 CKT: 1
SINGLE 87   : 34037 ROCK CK5 - 34042 BVR CH65 CKT: 1   149.9   149.4   167.0   167.0    91.4    90.9     0.5
SINGLE 3626 : 68738 BIGSPRNG - 68710 MEDERVIL CKT: 1   150.1   149.5   167.0   167.0    91.4    91.0     0.4
SINGLE 177  : 34089 VINTON 5 - 34091 ARNOLD 5 CKT: 1   149.5   148.9   167.0   167.0    91.4    90.9     0.5
SINGLE 587  : 34427 BIGSPRT8 - 68738 BIGSPRNG CKT: 1   150.2   149.6   167.0   167.0    91.4    91.0     0.4
SINGLE 620  : 34453 GARNVLO8 - 34454 GUTNBRG8 CKT: 1   150.0   149.4   167.0   167.0    91.3    90.9     0.4
PRI-RRK/RRK3: ** MULTIPLE CONTINGENCY **               149.7   149.2   167.0   167.0    91.3    90.9     0.4
            : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 1
            : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
SINGLE 91   : 34038 BVR CH 5 - 34042 BVR CH65 CKT: 1   149.8   149.3   167.0   167.0    91.3    90.9     0.4
SINGLE 176  : 34087 DYSART 5 - 34089 VINTON 5 CKT: 1   149.3   148.7   167.0   167.0    91.2    90.8     0.4
SINGLE 655  : 34493 DELEWAR8 - 34494 EARLTAP8 CKT: 1   149.7   149.1   167.0   167.0    91.2    90.7     0.5
SINGLE 3361 : 61948 BYRON  5 - 61906 MAPLE LF CKT: 1   149.5   148.9   167.0   167.0    91.2    90.8     0.4
SINGLE 292  : 34182 WAPELLO5 - 34183 JEFF   5 CKT: 1   149.4   148.9   167.0   167.0    91.2    90.7     0.5
SINGLE 1236 : 60238 REDROCK7 - 60336 NSSJCT 7 CKT: 1   149.5   149.0   167.0   167.0    91.2    90.8     0.4
SINGLE 1361 : 60336 NSSJCT 7 - 60337 NSSTAP 7 CKT: 1   149.5   149.0   167.0   167.0    91.2    90.8     0.4
RRK-BCK/MAX7: ** MULTIPLE CONTINGENCY **               149.5   149.0   167.0   167.0    91.2    90.8     0.4
            : 60238 REDROCK7 - 60266 BATTCRK7 CKT: P
            : 60238 REDROCK7 - 60336 NSSJCT 7 CKT: 1
SINGLE 1362 : 60337 NSSTAP 7 - 60338 NSSTL  7 CKT: 1   149.5   149.0   167.0   167.0    91.2    90.8     0.4
HYL-BLL/DLK7: ** MULTIPLE CONTINGENCY **               149.3   148.8   167.0   167.0    91.1    90.7     0.4
            : 60215 HYLNDLK7 - 60193 BLUE LK7 CKT: 1
            : 60215 HYLNDLK7 - 60261 DEANLAK7 CKT: 1
SINGLE 300  : 34185 POWESHK5 - 34191 REASNOR5 CKT: 1   149.4   148.8   167.0   167.0    91.1    90.6     0.5
SINGLE 106  : 34044 ALBANY 5 - 34046 YORK   5 CKT: 1   149.7   149.2   167.0   167.0    91.1    90.7     0.4
WLR-ASK/PNL7: ** MULTIPLE CONTINGENCY **               149.4   148.8   167.0   167.0    91.1    90.7     0.4
            : 60325 WILOWRV7 - 60187 AS KING7 CKT: 1
            : 60325 WILOWRV7 - 60313 PINE LK7 CKT: 1
SINGLE 81   : 34033 TRK RIV5 - 34465 TURK RV8 CKT: 1   149.5   148.9   167.0   167.0    91.0    90.5     0.5
SINGLE 621  : 34454 GUTNBRG8 - 34465 TURK RV8 CKT: 1   149.5   148.9   167.0   167.0    91.0    90.5     0.5
SINGLE 3212 : 60949 MONROCO8 - 68847 SPARTA   CKT: 1   149.2   148.7   167.0   167.0    91.0    90.6     0.4
SINGLE 59   : 34019 HAZLTON5 - 61930 WINDSOR5 CKT: 1   149.5   148.9   167.0   167.0    91.0    90.5     0.5
SINGLE 1764 : 62123 WOODCRT8 - 62132 PRKWOOD8 CKT: 1   149.2   148.7   167.0   167.0    91.0    90.6     0.4
815         : ** MULTIPLE CONTINGENCY **               149.2   148.7   167.0   167.0    91.0    90.6     0.4
            : 62225 BURNVIL7 - 62226 FISCHER7 CKT: 1
            : 62226 FISCHER7 - 60343 WILLPIP7 CKT: 1
            : 60343 WILLPIP7 - 62228 APPVLTW7 CKT: 1
            : 62228 APPVLTW7 - 62227 JOHNCAK7 CKT: 1
SINGLE 657  : 34494 EARLTAP8 - 34496 ALMORE 8 CKT: 1   149.3   148.8   167.0   167.0    91.0    90.5     0.5
SINGLE 2992 : 60309 MRSHLND5 - 69535 LAC TAP5 CKT: 1   149.3   148.8   167.0   167.0    90.9    90.5     0.4
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SINGLE 2996 : 60316 TREMVAL5 - 69543 ALMA   5 CKT: 1   149.2   148.6   167.0   167.0    90.8    90.4     0.4
BASE CASE   : **       BASE CASE      **               148.1   .....   167.0   .....    90.2   .....   *NEW*
SINGLE 1041 : 60146 GRANCTY7 - 60161 STREGIS7 CKT: 1   .....   148.6   .....   167.0   .....    90.5  *ELIM*
SINGLE 1330 : 60311 MAYFAIR5 - 60316 TREMVAL5 CKT: 1   .....   148.6   .....   167.0   .....    90.4  *ELIM*
SINGLE 2993 : 60315 T-CRNRS7 - 39706 WIEN     CKT: 1   .....   148.6   .....   167.0   .....    90.5  *ELIM*
695         : ** MULTIPLE CONTINGENCY **               .....   148.6   .....   167.0   .....    90.5  *ELIM*
            : 62925 DICKNSN7 - 62926 DCKSNSS7 CKT: 1
            : 62926 DCKSNSS7 - 60155 PULASKI7 CKT: 1
            : 60153 MNTCELO7 - 60155 PULASKI7 CKT: 1
715       1 : ** MULTIPLE CONTINGENCY **               .....   148.6   .....   167.0   .....    90.5  *ELIM*
            : 60200 BLK DG27 - 62666 GLNDALE7 CKT: 1
            : 60190 BLK DOG7 - 60242 SAVAGE 7 CKT: 1
            : 62666 GLNDALE7 - 62672 GLNDALE8 CKT: 2
            : 60242 SAVAGE 7 - 62668 EGLCKTP7 CKT: 1
            : 62668 EGLCKTP7 - 62975 SHAKOPE7 CKT: 1
            : 62975 SHAKOPE7 - 60244 SCOTTCO7 CKT: 1
            : 60244 SCOTTCO7 - 60890 SCOTTCO8 CKT: 2
715       5 : ** MULTIPLE CONTINGENCY **               .....   148.6   .....   167.0   .....    90.5  *ELIM*
            : 60190 BLK DOG7 - 60242 SAVAGE 7 CKT: 1
            : 60242 SAVAGE 7 - 62668 EGLCKTP7 CKT: 1
            : 62668 EGLCKTP7 - 62975 SHAKOPE7 CKT: 1
            : 62975 SHAKOPE7 - 60244 SCOTTCO7 CKT: 1
            : 60244 SCOTTCO7 - 60890 SCOTTCO8 CKT: 2

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26) 34138 DUNDEE 8 - 34521 GRELYTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 234  : 34129 LIBERTY5 - 34135 DUNDEE 5 CKT: 1    44.3    44.1    24.0    24.0   185.3   184.6     0.7
SINGLE 249  : 34138 DUNDEE 8 - 34490 MASONVL8 CKT: 1    35.2    35.1    24.0    24.0   149.1   148.6     0.5
SINGLE 652  : 34490 MASONVL8 - 34491 PRAIRI_8 CKT: 1    34.9    34.9    24.0    24.0   148.0   147.5     0.5
SINGLE 653  : 34491 PRAIRI_8 - 34492 MANCIND8 CKT: 1    34.0    34.0    24.0    24.0   144.0   143.6     0.4
SINGLE 235  : 34129 LIBERTY5 - 34541 LIBERTYY CKT: 1    29.9    29.8    24.0    24.0   127.0   126.7     0.3
SINGLE 232  : 34128 LIBERTY8 - 34541 LIBERTYY CKT: 1    29.9    29.8    24.0    24.0   127.0   126.7     0.3
SINGLE 654  : 34492 MANCIND8 - 34493 DELEWAR8 CKT: 1    27.3    27.2    24.0    24.0   116.0   115.5     0.5
SINGLE 55   : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1    26.3    26.2    24.0    24.0   114.5   114.1     0.4
885         : ** MULTIPLE CONTINGENCY **                26.4    26.3    24.0    24.0   114.0   113.5     0.5
            : 69507 SENECA 5 - 69511 BELLCTR5 CKT: 1
            : 69507 SENECA 5 - 69523 GENOA  5 CKT: 1
SINGLE 2775 : 34093 ARNOLD 3 - 64352 TIFFIN 3 CKT: 1    26.7    26.5    24.0    24.0   113.8   113.1     0.7
050    1    : ** MULTIPLE CONTINGENCY **                25.8    25.7    24.0    24.0   111.5   111.1     0.4
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
            : 39901 COC DPC  - 38342 COC 69   CKT: 1
            : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
050    3    : ** MULTIPLE CONTINGENCY **                25.3    25.2    24.0    24.0   110.3   109.6     0.7
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 39901 COC DPC  - 38342 COC 69   CKT: 1
            : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
050    2    : ** MULTIPLE CONTINGENCY **                26.0    25.6    24.0    24.0   110.3   109.7     0.6
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1    25.5    25.3    24.0    24.0   109.7   108.8     0.9
ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                25.5    25.3    24.0    24.0   109.3   108.6     0.7
            : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
SINGLE 655  : 34493 DELEWAR8 - 34494 EARLTAP8 CKT: 1    25.6    25.5    24.0    24.0   109.0   108.6     0.4
SINGLE 657  : 34494 EARLTAP8 - 34496 ALMORE 8 CKT: 1    25.0    24.9    24.0    24.0   106.3   105.8     0.5
SINGLE 2730 : 34036 ROCK CK3 - 36382 QUAD ;   CKT: 1    24.4    24.4    24.0    24.0   105.7   105.4     0.3
SINGLE 118  : 34053 MT VERN5 - 34109 BERTRAM5 CKT: 1    24.2    24.1    24.0    24.0   103.3   103.0     0.3
880         : ** MULTIPLE CONTINGENCY **                24.1    24.1    24.0    24.0   102.8   102.4     0.4
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             : 69523 GENOA  5 - 69527 HARMONY5 CKT: 1
             : 69523 GENOA  5 - 34021 LANSINGW CKT: 1
  SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1    23.8    23.8    24.0    24.0   102.3   101.9     0.4
  SINGLE 119  : 34053 MT VERN5 - 34127 WYOMING5 CKT: 1    23.9    23.9    24.0    24.0   101.9   101.5     0.4
  SINGLE 580  : 34423 MONONA_8 - 69307 FARMBURG CKT: 1    23.7    23.6    24.0    24.0   100.7   100.3     0.4
  SINGLE 939  : 34894 NATIONT8 - 69307 FARMBURG CKT: 1    23.7    23.6    24.0    24.0   100.6   100.2     0.4
  SINGLE 586  : 34427 BIGSPRT8 - 34894 NATIONT8 CKT: 1    23.7    23.6    24.0    24.0   100.6   100.2     0.4
  BASE CASE   : **       BASE CASE      **               22.7    22.6    24.0    24.0    96.1    95.8     0.3
  SINGLE 625  : 34459 EPWORTH8 - 34503 PEOSTAT8 CKT: 1    21.6    21.6    24.0    24.0    92.1    91.8     0.3
  SINGLE 628  : 34461 HOLYCRS8 - 34498 BANKSTO8 CKT: 1    21.6    21.6    24.0    24.0    92.0    91.7     0.3
  SINGLE 2727 : 34022 LANSING5 - 69531 POSTVIL5 CKT: 1    21.6    21.5    24.0    24.0    92.0    91.6     0.4
  SINGLE 54   : 34018 HAZLTON3 - 34020 HAZL S 5 CKT: 2    21.4    21.3    24.0    24.0    91.9    91.5     0.4
  SINGLE 230  : 34128 LIBERTY8 - 34498 BANKSTO8 CKT: 1    21.5    21.5    24.0    24.0    91.6    91.3     0.3
  SINGLE 591  : 34431 W UNION8 - 34432 WINDSOR8 CKT: 1    21.5    21.5    24.0    24.0    91.5    91.2     0.3
  SINGLE 594  : 34432 WINDSOR8 - 61930 WINDSOR5 CKT: 1    21.5    21.5    24.0    24.0    91.5    91.2     0.3
  SINGLE 623  : 34458 FARLEY 8 - 34459 EPWORTH8 CKT: 1    21.4    21.4    24.0    24.0    91.3    91.0     0.3
  SINGLE 650  : 34486 MARYTAP8 - 34488 HAHNTAP8 CKT: 1    21.5    21.5    24.0    24.0    91.3    91.0     0.3
  SINGLE 2719 : 34016 EMERY  5 - 64252 FLOYD  5 CKT: 1    21.3    21.3    24.0    24.0    90.9    90.6     0.3
  SINGLE 614  : 34447 FAYETTJ8 - 34486 MARYTAP8 CKT: 1    21.3    21.2    24.0    24.0    90.4    90.0     0.4
  SINGLE 624  : 34458 FARLEY 8 - 34502 FARLEY_8 CKT: 1    21.2    21.2    24.0    24.0    90.4    90.1     0.3
  SINGLE 2934 : 60186 AS KING3 - 60006 KING 31G CKT: 1    21.5   .....    24.0   .....    90.3   .....   *NEW*

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  27) 34200 CNTRVIL8 - 34573 N CENT8  CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  SINGLE 2890 : 34895 TRAILTP8 - 96487 2TRAIL   CKT: 1    57.9    57.9    48.0    48.0   120.6   120.6     0.0
  SINGLE 719  : 34618 TRAILJT8 - 34895 TRAILTP8 CKT: 1    57.3    57.3    48.0    48.0   119.4   119.4     0.0
  SINGLE 293  : 34182 WAPELLO5 - 34184 APANOSE5 CKT: 1    56.5    56.5    48.0    48.0   117.7   117.8    -0.1
  SINGLE 733  : 34633 PROMISE8 - 34634 HRVRDTP8 CKT: 1    54.9    54.9    48.0    48.0   114.5   114.4     0.1
  SINGLE 276  : 34175 CORYDON8 - 34634 HRVRDTP8 CKT: 1    55.0    54.9    48.0    48.0   114.5   114.5     0.0
  SINGLE 724  : 34624 NUMATAP8 - 34633 PROMISE8 CKT: 1    54.9    54.9    48.0    48.0   114.4   114.4     0.0
  SINGLE 326  : 34200 CNTRVIL8 - 34624 NUMATAP8 CKT: 1    54.9    54.9    48.0    48.0   114.3   114.3     0.0
  SINGLE 295  : 34182 WAPELLO5 - 34189 OTTUMWA5 CKT: 2    54.1    54.1    48.0    48.0   112.6   112.7    -0.1
  SINGLE 294  : 34182 WAPELLO5 - 34189 OTTUMWA5 CKT: 1    53.4    53.4    48.0    48.0   111.2   111.3    -0.1
  SINGLE 741  : 34641 KELLERT8 - 34643 GRRIVER8 CKT: 1    52.9    52.9    48.0    48.0   110.2   110.2     0.0
  SINGLE 737  : 34636 CLIO T8  - 34639 LEON 8   CKT: 1    52.8    52.8    48.0    48.0   110.1   110.1     0.0
  SINGLE 738  : 34639 LEON 8   - 34641 KELLERT8 CKT: 1    52.9    52.9    48.0    48.0   110.1   110.1     0.0
  SINGLE 277  : 34175 CORYDON8 - 34635 ALERTON8 CKT: 1    52.8    52.8    48.0    48.0   110.0   110.0     0.0
  SINGLE 734  : 34635 ALERTON8 - 34636 CLIO T8  CKT: 1    52.8    52.8    48.0    48.0   110.0   110.0     0.0
  SINGLE 718  : 34618 TRAILJT8 - 34619 AVERYTP8 CKT: 1    52.0    52.0    48.0    48.0   108.3   108.3     0.0
  SINGLE 720  : 34619 AVERYTP8 - 34621 MORAVIT8 CKT: 1    52.0    52.0    48.0    48.0   108.3   108.4    -0.1
  SINGLE 2865 : 34621 MORAVIT8 - 96482 2MORAVA  CKT: 1    51.9    51.9    48.0    48.0   108.1   108.2    -0.1
  SINGLE 173  : 34084 PARNEL 5 - 34185 POWESHK5 CKT: 1    51.6    51.6    48.0    48.0   107.6   107.6     0.0
  BASE CASE   : **       BASE CASE      **               50.5    50.5    48.0    48.0   105.1   105.2    -0.1
  SINGLE 726  : 34625 LACONA 8 - 34640 WODBURN8 CKT: 1    49.4    49.4    48.0    48.0   102.9   103.0    -0.1
  SINGLE 739  : 34640 WODBURN8 - 34659 OSCEREC8 CKT: 1    49.4    49.4    48.0    48.0   102.9   103.0    -0.1
  SINGLE 755  : 34658 OSCEOLA8 - 34659 OSCEREC8 CKT: 1    49.4    49.4    48.0    48.0   102.9   103.0    -0.1
  SINGLE 328  : 34202 LUCAS  8 - 34627 LUCAS T8 CKT: 1    49.4    49.4    48.0    48.0   102.9   103.0    -0.1
  SINGLE 725  : 34625 LACONA 8 - 34627 LUCAS T8 CKT: 1    49.4    49.4    48.0    48.0   102.9   103.0    -0.1
  SINGLE 2934 : 60186 AS KING3 - 60006 KING 31G CKT: 1    49.4    49.4    48.0    48.0   102.9   102.9     0.0
  SINGLE 2898 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1    49.2    49.2    48.0    48.0   102.5   102.5     0.0
  SINGLE 2897 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1    49.2    49.2    48.0    48.0   102.5   102.5     0.0
  SINGLE 2774 : 34091 ARNOLD 5 - 34090 ARNOLD1G CKT: 1    49.1    49.1    48.0    48.0   102.3   102.4    -0.1
  SINGLE 721  : 34620 WELLER 8 - 34629 MELROSE8 CKT: 1    48.5    48.5    48.0    48.0   101.0   101.1    -0.1
  SINGLE 700  : 34594 ALBIA  8 - 34895 TRAILTP8 CKT: 1    48.5    48.5    48.0    48.0   101.0   101.1    -0.1
  SINGLE 729  : 34628 CHARITN8 - 34629 MELROSE8 CKT: 1    48.5    48.5    48.0    48.0   101.0   101.1    -0.1
  SINGLE 699  : 34594 ALBIA  8 - 34620 WELLER 8 CKT: 1    48.5    48.5    48.0    48.0   101.0   101.1    -0.1
  SINGLE 2924 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    48.4    48.4    48.0    48.0   100.9   100.9     0.0
  SINGLE 2816 : 34184 APANOSE5 - 30001 ADAIR    CKT: 1    48.4    48.4    48.0    48.0   100.6   100.6     0.0
  SINGLE 312  : 34190 BRDGPRT5 - 34558 BRDGPR1Y CKT: 1    48.0    48.0    48.0    48.0    99.9   100.0    -0.1
  SINGLE 335  : 34205 BRDGPRT8 - 34558 BRDGPR1Y CKT: 1    48.0    48.0    48.0    48.0    99.9   100.0    -0.1
  SINGLE 2811 : 34177 APANOSE8 - 96466 2MARK    CKT: 1    45.2    45.2    48.0    48.0    94.2    94.3    -0.1
  SINGLE 336  : 34205 BRDGPRT8 - 34618 TRAILJT8 CKT: 1    43.6    43.6    48.0    48.0    90.9    90.9     0.0
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28) 34588 SLAKEN 8 - 34592 SLAKES 8 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 697 : 34592 SLAKES 8 - 66569 CRESTON8 CKT: 1	87.2	87.2	58.0	58.0	148.9	148.8	0.1
SINGLE 107 : 34047 ANTA TP5 - 34048 ANITA 5 CKT: 1	72.8	72.4	58.0	58.0	124.2	123.6	0.6
SINGLE 2512 : 66560 CRESTON5 - 66569 CRESTON8 CKT: 1	72.3	72.3	58.0	58.0	123.5	123.4	0.1
SINGLE 111 : 34048 ANITA 5 - 34524 ANITA Y CKT: 1	72.3	72.0	58.0	58.0	123.4	122.9	0.5
SINGLE 141 : 34064 ANITA 8 - 34524 ANITA Y CKT: 1	72.3	72.0	58.0	58.0	123.4	122.9	0.5
SINGLE 751 : 34653 CRESTN8_ - 34654 ECRESTP8 CKT: 1	70.5	70.2	58.0	58.0	120.4	119.8	0.6
SINGLE 752 : 34654 ECRESTP8 - 66569 CRESTON8 CKT: 1	70.5	70.1	58.0	58.0	120.3	119.7	0.6
SINGLE 2820 : 34189 OTTUMWA5 - 34146 OTTUMW1G CKT: 1	70.1	69.8	58.0	58.0	119.8	119.2	0.6
SINGLE 749 : 34650 ARISTAP8 - 34653 CRESTN8_ CKT: 1	65.7	65.4	58.0	58.0	112.2	111.6	0.6
SINGLE 747 : 34648 LENXTAP8 - 34650 ARISTAP8 CKT: 1	65.7	65.3	58.0	58.0	112.1	111.5	0.6
SINGLE 279 : 34176 MT AYR 8 - 34647 DIAGONL8 CKT: 1	65.6	65.3	58.0	58.0	112.1	111.5	0.6
SINGLE 745 : 34647 DIAGONL8 - 34648 LENXTAP8 CKT: 1	65.6	65.3	58.0	58.0	112.1	111.5	0.6
SINGLE 140 : 34063 GRNFLD 8 - 34603 CASEY R CKT: 1	65.3	64.9	58.0	58.0	111.4	110.8	0.6
SINGLE 142 : 34064 ANITA 8 - 34603 CASEY R CKT: 1	65.2	64.9	58.0	58.0	111.3	110.7	0.6
SINGLE 327 : 34202 LUCAS 8 - 34559 LUCAS Y CKT: 1	64.9	64.6	58.0	58.0	110.8	110.3	0.5
SINGLE 310 : 34189 OTTUMWA5 - 34192 LUCAS 5 CKT: 1	64.9	64.6	58.0	58.0	110.8	110.3	0.5
SINGLE 314 : 34192 LUCAS 5 - 34559 LUCAS Y CKT: 1	64.9	64.6	58.0	58.0	110.8	110.3	0.5
050 1 : ** MULTIPLE CONTINGENCY **	64.7	64.2	58.0	58.0	110.5	109.5	1.0
: 60186 AS KING3 - 60304 EAU CL 3 CKT: 1							
: 60304 EAU CL 3 - 39244 ARP 345 CKT: 1							
: 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1							
: 39901 COC DPC - 38342 COC 69 CKT: 1							
: 38333 HLT 69 - 68821 MAUSTON CKT: 1							
SINGLE 56 : 34018 HAZLTON3 - 60102 ADAMS 3 CKT: 1	64.5	64.0	58.0	58.0	110.2	109.3	0.9
825 : ** MULTIPLE CONTINGENCY **	64.4	63.9	58.0	58.0	110.0	109.2	0.8
: 63032 PL VLLY3 - 60102 ADAMS 3 CKT: 1							
: 60102 ADAMS 3 - 34014 ADAMS 5 CKT: 1							
: 60102 ADAMS 3 - 34018 HAZLTON3 CKT: 1							
SINGLE 135 : 34060 WNTRST 5 - 66560 CRESTON5 CKT: 1	64.4	64.0	58.0	58.0	109.9	109.3	0.6
050 3 : ** MULTIPLE CONTINGENCY **	64.3	63.7	58.0	58.0	109.8	108.7	1.1
: 60304 EAU CL 3 - 39244 ARP 345 CKT: 1							
: 39901 COC DPC - 38342 COC 69 CKT: 1							
: 38333 HLT 69 - 68821 MAUSTON CKT: 1							
050 2 : ** MULTIPLE CONTINGENCY **	64.2	64.1	58.0	58.0	109.7	109.4	0.3
: 60186 AS KING3 - 60304 EAU CL 3 CKT: 1							
: 60304 EAU CL 3 - 39244 ARP 345 CKT: 1							
: 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1							
ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **	64.2	63.9	58.0	58.0	109.6	109.1	0.5
: 60186 AS KING3 - 60236 REDROCK3 CKT: 1							
: 60186 AS KING3 - 60304 EAU CL 3 CKT: 1							
: 60304 EAU CL 3 - 39244 ARP 345 CKT: 1							
SINGLE 278 : 34176 MT AYR 8 - 34646 BEACNRC8 CKT: 1	64.1	63.8	58.0	58.0	109.5	108.9	0.6
SINGLE 742 : 34643 GRRIVER8 - 34644 ELLSTNR8 CKT: 1	64.1	63.8	58.0	58.0	109.5	108.9	0.6
SINGLE 744 : 34644 ELLSTNR8 - 34646 BEACNRC8 CKT: 1	64.1	63.8	58.0	58.0	109.4	108.9	0.5
SINGLE 2752 : 34060 WNTRST 5 - 64197 NORWLK5 CKT: 1	64.0	63.6	58.0	58.0	109.3	108.7	0.6
SINGLE 2819 : 34188 OTTUMWA3 - 64095 MNTZUMA3 CKT: 1	64.0	63.6	58.0	58.0	109.3	108.7	0.6
SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345 CKT: 1	63.9	63.4	58.0	58.0	109.2	108.3	0.9
SINGLE 308 : 34188 OTTUMWA3 - 34557 OTTUMWAY CKT: 1	63.9	63.6	58.0	58.0	109.1	108.5	0.6
SINGLE 311 : 34189 OTTUMWA5 - 34557 OTTUMWAY CKT: 1	63.9	63.6	58.0	58.0	109.1	108.5	0.6
SINGLE 959 : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1	63.8	63.6	58.0	58.0	109.0	108.6	0.4
SINGLE 300 : 34185 POWESHK5 - 34191 REASNOR5 CKT: 1	63.7	63.4	58.0	58.0	108.8	108.2	0.6
SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1	63.6	63.2	58.0	58.0	108.6	107.9	0.7
SINGLE 3362 : 61950 BYRON 3 - 63032 PL VLLY3 CKT: 1	63.5	63.0	58.0	58.0	108.4	107.7	0.7
PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **	63.5	63.1	58.0	58.0	108.4	107.8	0.6
: 60105 PR ISLD3 - 61950 BYRON 3 CKT: 1							
: 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2							
SINGLE 55 : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1	63.4	63.0	58.0	58.0	108.3	107.5	0.8
SINGLE 958 : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1	63.4	62.9	58.0	58.0	108.2	107.5	0.7
SINGLE 2775 : 34093 ARNOLD 3 - 64352 TIFFIN 3 CKT: 1	63.3	62.9	58.0	58.0	108.1	107.3	0.8

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SINGLE 133  : 34059 BOONE  7 - 34076 BNE JCT7 CKT: 1    63.3    63.0    58.0    58.0   108.0   107.5     0.5
SINGLE 2894 : 60102 ADAMS  3 - 63032 PL VLLY3 CKT: 1    63.2   .....    58.0   .....   107.9   .....   *NEW*
BASE CASE   : **       BASE CASE      **                62.1    61.8    58.0    58.0   106.1   105.5     0.6
SINGLE 3622 : 67316 COYOTE 3 - 67315 COYOTE1G CKT: 1    61.1   .....    58.0   .....   104.3   .....   *NEW*
SINGLE 3589 : 67101 ANTELOP3 - 67103 ANTEL31G CKT: 1    61.1    60.8    58.0    58.0   104.2   103.8     0.4
SINGLE 3590 : 67101 ANTELOP3 - 67107 ANTEL32G CKT: 1    61.1    60.8    58.0    58.0   104.2   103.8     0.4
SINGLE 3592 : 67105 LELANDO3 - 67111 LELAN32G CKT: 1    61.0    60.7    58.0    58.0   104.2   103.7     0.5
SINGLE 3449 : 63314 BIGSTON4 - 63315 BIGSTN1G CKT: 1    60.9    60.7    58.0    58.0   104.0   103.6     0.4
SINGLE 276  : 34175 CORYDON8 - 34634 HRVRDTP8 CKT: 1    60.7    60.4    58.0    58.0   103.7   103.2     0.5
SINGLE 3398 : 63041 COAL CR4 - 63000 COAL 41G CKT: 1    60.8    60.5    58.0    58.0   103.7   103.3     0.4
SINGLE 3399 : 63041 COAL CR4 - 63001 COAL 42G CKT: 1    60.8    60.5    58.0    58.0   103.7   103.3     0.4
SINGLE 724  : 34624 NUMATAP8 - 34633 PROMISE8 CKT: 1    60.7    60.4    58.0    58.0   103.7   103.2     0.5
SINGLE 733  : 34633 PROMISE8 - 34634 HRVRDTP8 CKT: 1    60.7    60.4    58.0    58.0   103.7   103.2     0.5
SINGLE 2924 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    60.7    60.5    58.0    58.0   103.7   103.2     0.5
SINGLE 280  : 34177 APANOSE8 - 34200 CNTRVIL8 CKT: 1    60.7    60.4    58.0    58.0   103.7   103.2     0.5
SINGLE 292  : 34182 WAPELLO5 - 34183 JEFF   5 CKT: 1    60.8    60.5    58.0    58.0   103.7   103.2     0.5
SINGLE 326  : 34200 CNTRVIL8 - 34624 NUMATAP8 CKT: 1    60.7    60.4    58.0    58.0   103.6   103.1     0.5
SINGLE 110  : 34048 ANITA  5 - 34050 GU CTR 5 CKT: 1    60.5    60.2    58.0    58.0   103.4   102.9     0.5
SINGLE 3596 : 67131 LARAMIE3 - 67118 LARAM31G CKT: 1    60.4    60.1    58.0    58.0   103.1   102.6     0.5
SINGLE 688  : 34587 MURRAY 8 - 34589 HOPEVIL8 CKT: 1    60.0    59.7    58.0    58.0   102.5   102.0     0.5
SINGLE 694  : 34589 HOPEVIL8 - 34590 GRDRVRE8 CKT: 1    60.0    59.7    58.0    58.0   102.5   102.0     0.5
SINGLE 696  : 34590 GRDRVRE8 - 34643 GRRIVER8 CKT: 1    60.0    59.7    58.0    58.0   102.4   101.9     0.5
SINGLE 741  : 34641 KELLERT8 - 34643 GRRIVER8 CKT: 1    58.4    58.1    58.0    58.0    99.7    99.3     0.4
SINGLE 738  : 34639 LEON 8   - 34641 KELLERT8 CKT: 1    58.4    58.1    58.0    58.0    99.7    99.2     0.5
SINGLE 737  : 34636 CLIO T8  - 34639 LEON 8   CKT: 1    58.4    58.1    58.0    58.0    99.6    99.2     0.4
SINGLE 734  : 34635 ALERTON8 - 34636 CLIO T8  CKT: 1    58.3    58.0    58.0    58.0    99.5    99.0     0.5
SINGLE 277  : 34175 CORYDON8 - 34635 ALERTON8 CKT: 1    58.2    58.0    58.0    58.0    99.4    99.0     0.4
SINGLE 108  : 34047 ANTA TP5 - 66560 CRESTON5 CKT: 1    56.9    56.7    58.0    58.0    97.2    96.8     0.4
SINGLE 2511 : 66560 CRESTON5 - 66568 CRESTN 8 CKT: 1    56.7    56.4    58.0    58.0    96.1    95.6     0.5
SINGLE 2524 : 66568 CRESTN 8 - 66586 CRESTNS8 CKT: 1    56.7    56.4    58.0    58.0    96.1    95.6     0.5
SINGLE 689  : 34587 MURRAY 8 - 34658 OSCEOLA8 CKT: 1    55.1    54.8    58.0    58.0    94.0    93.6     0.4
SINGLE 692  : 34588 SLAKEN 8 - 34653 CRESTN8_ CKT: 1    53.7    53.4    58.0    58.0    91.7    91.2     0.5
SINGLE 739  : 34640 WODBURN8 - 34659 OSCEREC8 CKT: 1    53.0    52.8    58.0    58.0    90.6    90.2     0.4
SINGLE 755  : 34658 OSCEOLA8 - 34659 OSCEREC8 CKT: 1    53.1    52.9    58.0    58.0    90.6    90.3     0.3

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29) 34592 SLAKES 8 - 34575 CRESTON9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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BASE CASE   : **       BASE CASE      **                26.1    26.1    25.0    25.0   104.2   104.2     0.0

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30) 34641 KELLERT8 - 34643 GRRIVER8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 689  : 34587 MURRAY 8 - 34658 OSCEOLA8 CKT: 1    26.9    26.5    12.0    12.0   223.6   220.9     2.7
SINGLE 739  : 34640 WODBURN8 - 34659 OSCEREC8 CKT: 1    26.6    26.3    12.0    12.0   218.8   216.0     2.8
SINGLE 755  : 34658 OSCEOLA8 - 34659 OSCEREC8 CKT: 1    26.6    26.3    12.0    12.0   218.8   216.1     2.7
SINGLE 726  : 34625 LACONA 8 - 34640 WODBURN8 CKT: 1    26.5    26.2    12.0    12.0   217.7   215.0     2.7
SINGLE 725  : 34625 LACONA 8 - 34627 LUCAS T8 CKT: 1    26.5    26.2    12.0    12.0   217.6   214.9     2.7
SINGLE 328  : 34202 LUCAS  8 - 34627 LUCAS T8 CKT: 1    26.5    26.2    12.0    12.0   217.5   214.8     2.7
SINGLE 2820 : 34189 OTTUMWA5 - 34146 OTTUMW1G CKT: 1    23.6    23.4    12.0    12.0   198.7   196.6     2.1
SINGLE 325  : 34200 CNTRVIL8 - 34573 N CENT8  CKT: 1    22.0    21.8    12.0    12.0   183.5   181.6     1.9
050    1    : ** MULTIPLE CONTINGENCY **               20.9    20.7    12.0    12.0   173.5   171.2     2.3
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
            : 39901 COC DPC  - 38342 COC 69   CKT: 1
            : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
050    2    : ** MULTIPLE CONTINGENCY **               20.7    20.4    12.0    12.0   171.5   169.2     2.3
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **               20.7    20.4    12.0    12.0   171.3   169.1     2.2
            : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
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              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
050     3     : ** MULTIPLE CONTINGENCY **                 20.6    20.3    12.0    12.0   170.5   167.9     2.6
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
SINGLE 135    : 34060 WNTRST 5 - 66560 CRESTON5 CKT: 1    20.6    20.4    12.0    12.0   170.5   168.4     2.1
SINGLE 329    : 34202 LUCAS  8 - 34628 CHARITN8 CKT: 1    20.6    20.3    12.0    12.0   170.0   168.1     1.9
SINGLE 300    : 34185 POWESHK5 - 34191 REASNOR5 CKT: 1    20.5    20.2    12.0    12.0   169.6   167.4     2.2
SINGLE 2819   : 34188 OTTUMWA3 - 64095 MNTZUMA3 CKT: 1    20.4    20.2    12.0    12.0   169.2   167.3     1.9
SINGLE 56     : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1    20.4    20.2    12.0    12.0   169.1   166.9     2.2
SINGLE 2989   : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1    20.4    20.1    12.0    12.0   168.9   166.7     2.2
SINGLE 308    : 34188 OTTUMWA3 - 34557 OTTUMWAY CKT: 1    20.4    20.2    12.0    12.0   168.9   167.0     1.9
SINGLE 311    : 34189 OTTUMWA5 - 34557 OTTUMWAY CKT: 1    20.4    20.2    12.0    12.0   168.9   167.0     1.9
825           : ** MULTIPLE CONTINGENCY **                 20.4    20.1    12.0    12.0   168.8   166.7     2.1
              : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
              : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
              : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1
SINGLE 110    : 34048 ANITA  5 - 34050 GU CTR 5 CKT: 1    20.3    20.1    12.0    12.0   168.2   166.3     1.9
SINGLE 959    : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    20.2    19.9    12.0    12.0   167.1   164.8     2.3
SINGLE 2752   : 34060 WNTRST 5 - 64197 NORWLK5  CKT: 1    20.1    19.9    12.0    12.0   166.6   164.5     2.1
BASE CASE     : **       BASE CASE      **                 19.1    18.9    12.0    12.0   157.7   155.8     1.9
SINGLE 690    : 34588 SLAKEN 8 - 34592 SLAKES 8 CKT: 1    17.9    17.7    12.0    12.0   149.7   147.8     1.9
SINGLE 3449   : 63314 BIGSTON4 - 63315 BIGSTN1G CKT: 1    18.1    17.9    12.0    12.0   149.1   147.2     1.9
SINGLE 292    : 34182 WAPELLO5 - 34183 JEFF   5 CKT: 1    18.0    17.8    12.0    12.0   148.4   146.6     1.8
SINGLE 3399   : 63041 COAL CR4 - 63001 COAL 42G CKT: 1    17.9    17.7    12.0    12.0   147.8   145.9     1.9
SINGLE 3398   : 63041 COAL CR4 - 63000 COAL 41G CKT: 1    17.9    17.7    12.0    12.0   147.8   145.9     1.9
SINGLE 108    : 34047 ANTA TP5 - 66560 CRESTON5 CKT: 1    17.9    17.7    12.0    12.0   147.7   146.1     1.6
SINGLE 2862   : 34592 SLAKES 8 - 34575 CRESTON9 CKT: 1    17.7    17.5    12.0    12.0   146.2   144.3     1.9
SINGLE 3596   : 67131 LARAMIE3 - 67118 LARAM31G CKT: 1    17.7    17.5    12.0    12.0   146.0   144.0     2.0
SINGLE 2924   : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    17.6    17.4    12.0    12.0   145.2   143.3     1.9
SINGLE 2520   : 66565 SIOUXCY4 - 66567 DENISON4 CKT: 1    16.6    16.4    12.0    12.0   136.8   135.1     1.7
SINGLE 109    : 34047 ANTA TP5 - 66561 DENISON5 CKT: 1    16.5    16.3    12.0    12.0   135.5   133.8     1.7
SINGLE 2513   : 66561 DENISON5 - 66567 DENISON4 CKT: 1    16.4    16.2    12.0    12.0   134.9   133.1     1.8
SINGLE 326    : 34200 CNTRVIL8 - 34624 NUMATAP8 CKT: 1    16.0    15.8    12.0    12.0   131.2   129.7     1.5
SINGLE 724    : 34624 NUMATAP8 - 34633 PROMISE8 CKT: 1    16.0    15.8    12.0    12.0   130.9   129.3     1.6
SINGLE 733    : 34633 PROMISE8 - 34634 HRVRDTP8 CKT: 1    15.9    15.7    12.0    12.0   130.6   129.1     1.5
SINGLE 280    : 34177 APANOSE8 - 34200 CNTRVIL8 CKT: 1    15.8    15.6    12.0    12.0   130.3   128.5     1.8
SINGLE 276    : 34175 CORYDON8 - 34634 HRVRDTP8 CKT: 1    15.9    15.7    12.0    12.0   130.2   128.7     1.5
SINGLE 696    : 34590 GRDRVRE8 - 34643 GRRIVER8 CKT: 1    15.2    15.0    12.0    12.0   127.3   125.7     1.6
SINGLE 694    : 34589 HOPEVIL8 - 34590 GRDRVRE8 CKT: 1    15.2    15.0    12.0    12.0   127.2   125.5     1.7
SINGLE 688    : 34587 MURRAY 8 - 34589 HOPEVIL8 CKT: 1    15.2    15.0    12.0    12.0   126.7   125.0     1.7
SINGLE 742    : 34643 GRRIVER8 - 34644 ELLSTNR8 CKT: 1    14.7    14.6    12.0    12.0   120.3   118.9     1.4
SINGLE 744    : 34644 ELLSTNR8 - 34646 BEACNRC8 CKT: 1    14.7    14.5    12.0    12.0   119.7   118.3     1.4
SINGLE 278    : 34176 MT AYR 8 - 34646 BEACNRC8 CKT: 1    14.7    14.5    12.0    12.0   119.6   118.2     1.4
SINGLE 687    : 34586 LORIMOR8 - 34587 MURRAY 8 CKT: 1    12.3    12.2    12.0    12.0   101.1    99.8     1.3
SINGLE 685    : 34585 LORIMRR8 - 34586 LORIMOR8 CKT: 1    12.3    12.2    12.0    12.0   100.9    99.6     1.3
SINGLE 686    : 34585 LORIMRR8 - 34588 SLAKEN 8 CKT: 1    12.3    12.2    12.0    12.0   100.7    99.5     1.2
SINGLE 279    : 34176 MT AYR 8 - 34647 DIAGONL8 CKT: 1    11.7    11.5    12.0    12.0    96.7    95.3     1.4
SINGLE 745    : 34647 DIAGONL8 - 34648 LENXTAP8 CKT: 1    11.6    11.5    12.0    12.0    96.2    94.9     1.3
SINGLE 747    : 34648 LENXTAP8 - 34650 ARISTAP8 CKT: 1    11.6    11.4    12.0    12.0    95.6    94.3     1.3
SINGLE 749    : 34650 ARISTAP8 - 34653 CRESTN8_ CKT: 1    11.5    11.4    12.0    12.0    95.3    93.9     1.4

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  31) 34643 GRRIVER8 - 34644 ELLSTNR8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 686    : 34585 LORIMRR8 - 34588 SLAKEN 8 CKT: 1    24.8    24.5    12.0    12.0   205.4   203.0     2.4
SINGLE 685    : 34585 LORIMRR8 - 34586 LORIMOR8 CKT: 1    24.8    24.5    12.0    12.0   205.2   202.8     2.4
SINGLE 687    : 34586 LORIMOR8 - 34587 MURRAY 8 CKT: 1    24.7    24.4    12.0    12.0   204.9   202.5     2.4
SINGLE 2820   : 34189 OTTUMWA5 - 34146 OTTUMW1G CKT: 1    16.8    16.6    12.0    12.0   141.5   140.0     1.5
SINGLE 688    : 34587 MURRAY 8 - 34589 HOPEVIL8 CKT: 1    16.5    16.3    12.0    12.0   138.1   136.5     1.6
SINGLE 694    : 34589 HOPEVIL8 - 34590 GRDRVRE8 CKT: 1    16.4    16.2    12.0    12.0   137.5   135.9     1.6
SINGLE 696    : 34590 GRDRVRE8 - 34643 GRRIVER8 CKT: 1    16.4    16.2    12.0    12.0   137.4   135.7     1.7
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050     1    : ** MULTIPLE CONTINGENCY **                14.5    14.3    12.0    12.0   120.7   119.3     1.4
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
SINGLE 135   : 34060 WNTRST 5 - 66560 CRESTON5 CKT: 1    14.4    14.3    12.0    12.0   120.1   118.6     1.5
ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                 14.4    14.2    12.0    12.0   119.8   118.3     1.5
             : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
050     2    : ** MULTIPLE CONTINGENCY **                 14.4    14.2    12.0    12.0   119.8   118.3     1.5
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
SINGLE 300   : 34185 POWESHK5 - 34191 REASNOR5 CKT: 1    14.4    14.2    12.0    12.0   119.7   118.2     1.5
SINGLE 2819  : 34188 OTTUMWA3 - 64095 MNTZUMA3 CKT: 1    14.4    14.2    12.0    12.0   119.5   118.1     1.4
SINGLE 311   : 34189 OTTUMWA5 - 34557 OTTUMWAY CKT: 1    14.3    14.2    12.0    12.0   119.3   117.9     1.4
SINGLE 308   : 34188 OTTUMWA3 - 34557 OTTUMWAY CKT: 1    14.3    14.2    12.0    12.0   119.3   117.9     1.4
SINGLE 56    : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1    14.3   .....    12.0   .....   119.1   .....   *NEW*
825          : ** MULTIPLE CONTINGENCY **                14.3   .....    12.0   .....   119.0   .....   *NEW*
             : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
             : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
             : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1
050     3    : ** MULTIPLE CONTINGENCY **                 14.3   .....    12.0   .....   118.8   .....   *NEW*
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
BASE CASE    : **       BASE CASE      **                 13.3    13.1    12.0    12.0   110.5   109.1     1.4
SINGLE 2862  : 34592 SLAKES 8 - 34575 CRESTON9 CKT: 1    12.3    12.1    12.0    12.0   102.0   100.6     1.4
SINGLE 326   : 34200 CNTRVIL8 - 34624 NUMATAP8 CKT: 1    12.3    12.1    12.0    12.0   101.3   100.1     1.2
SINGLE 724   : 34624 NUMATAP8 - 34633 PROMISE8 CKT: 1    12.2    12.1    12.0    12.0   101.1    99.9     1.2
SINGLE 733   : 34633 PROMISE8 - 34634 HRVRDTP8 CKT: 1    12.2    12.1    12.0    12.0   100.9    99.7     1.2
SINGLE 276   : 34175 CORYDON8 - 34634 HRVRDTP8 CKT: 1    12.2    12.0    12.0    12.0   100.7    99.5     1.2
SINGLE 280   : 34177 APANOSE8 - 34200 CNTRVIL8 CKT: 1    11.9    11.8    12.0    12.0    98.7    97.4     1.3
SINGLE 2520  : 66565 SIOUXCY4 - 66567 DENISON4 CKT: 1    11.5    11.4    12.0    12.0    95.2    94.0     1.2
SINGLE 109   : 34047 ANTA TP5 - 66561 DENISON5 CKT: 1    11.4    11.2    12.0    12.0    94.1    92.9     1.2
SINGLE 2513  : 66561 DENISON5 - 66567 DENISON4 CKT: 1    11.3    11.2    12.0    12.0    93.7    92.4     1.3
SINGLE 328   : 34202 LUCAS  8 - 34627 LUCAS T8 CKT: 1    10.9   .....    12.0   .....    90.1   .....   *NEW*

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 32) 60105 PR ISLD3 - 60003 PR IS31G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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CNC-KOL/TER3: ** MULTIPLE CONTINGENCY **                 548.2   547.2   600.0   600.0    91.4    91.2     0.2
             : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
             : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
CNC-DKN/SHC3: ** MULTIPLE CONTINGENCY **                 547.5   546.6   600.0   600.0    91.2    91.1     0.1
             : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1
             : 60202 COON CK3 - 60272 MPLEGV23 CKT: 1
SINGLE 2719  : 34016 EMERY  5 - 64252 FLOYD  5 CKT: 1    545.8   544.8   600.0   600.0    91.0    90.8     0.2
SINGLE 1157  : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1    545.9   545.0   600.0   600.0    91.0    90.8     0.2
SINGLE 1696  : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1    545.8   544.9   600.0   600.0    91.0    90.8     0.2
SINGLE 1196  : 60217 INVRHLS3 - 60218 INVRHLS7 CKT: 1    545.2   543.9   600.0   600.0    90.9    90.7     0.2
SINGLE 29    : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1    545.7   544.8   600.0   600.0    90.9    90.8     0.1
SINGLE 2704  : 34006 LAKEFLD3 - 63875 RAUN   3 CKT: 1    545.4   544.2   600.0   600.0    90.9    90.7     0.2
SINGLE 1002  : 60126 SPLT RK3 - 60131 SPLTRTB3 CKT: 1    544.6   543.8   600.0   600.0    90.8    90.6     0.2
SINGLE 1652  : 61051 STCRFL5G - 61131 LAW CRK5 CKT: C    544.7   543.8   600.0   600.0    90.8    90.6     0.2
SINGLE 1009  : 60131 SPLTRTB3 - 66564 SIOUXCY3 CKT: 1    544.6   543.8   600.0   600.0    90.8    90.6     0.2
SINGLE 1697  : 61952 S FARIB5 - 61964 OWATNNA5 CKT: 1    544.6   543.7   600.0   600.0    90.8    90.6     0.2
SINGLE 180   : 34091 ARNOLD 5 - 34534 ARNOLD Y CKT: 1    544.9   544.0   600.0   600.0    90.8    90.7     0.1
SINGLE 1129  : 60193 BLUE LK7 - 60215 HYLNDLK7 CKT: 1    544.9   544.1   600.0   600.0    90.8    90.7     0.1
SINGLE 3280  : 61051 STCRFL5G - 69565 APL RVR5 CKT: C    544.9   544.1   600.0   600.0    90.8    90.7     0.1
SINGLE 1140  : 60196 CHI    7 - 60920 LINDSTM7 CKT: C    544.6   543.7   600.0   600.0    90.8    90.6     0.2
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SINGLE 181	: 34093 ARNOLD 3 - 34534 ARNOLD Y CKT: 1	544.9	544.0	600.0	600.0	90.8	90.7	0.1	
BYN-WOW/KAN5	: ** MULTIPLE CONTINGENCY **	544.6	543.7	600.0	600.0	90.8	90.6	0.2	
	: 61948 BYRON 5 - 61964 OWATNNA5 CKT: 1								
	: 61161 BYRON 8 - 60799 KASSON 8 CKT: 1								
SINGLE 1270	: 60258 WILSON 7 - 60260 BLOOMGT7 CKT: 1	544.5	543.7	600.0	600.0	90.7	90.6	0.1	
SINGLE 3318	: 61128 LAW CRK7 - 62276 SHAFER 7 CKT: C	544.3	543.5	600.0	600.0	90.7	90.6	0.1	
SINGLE 3521	: 66506 FTTHOMP3 - 66571 GR ISLD3 CKT: 1	544.3	543.5	600.0	600.0	90.7	90.6	0.1	
SINGLE 1179	: 60209 ELLOTPK7 - 60246 SO TOWN7 CKT: 1	544.4	543.6	600.0	600.0	90.7	90.6	0.1	
SINGLE 955	: 60107 W FARIB7 - 61952 S FARIB5 CKT: 1	544.4	543.6	600.0	600.0	90.7	90.6	0.1	
X0897-0898O1	: ** MULTIPLE CONTINGENCY **	544.4	543.6	600.0	600.0	90.7	90.6	0.1	
	: 60215 HYLNDLK7 - 60193 BLUE LK7 CKT: 1								
	: 60215 HYLNDLK7 - 60261 DEANLAK7 CKT: 1								
	: 60261 DEANLAK7 - 60244 SCOTTCO7 CKT: 1								
HYL-BLL/DLK7	: ** MULTIPLE CONTINGENCY **	544.4	543.6	600.0	600.0	90.7	90.6	0.1	
	: 60215 HYLNDLK7 - 60193 BLUE LK7 CKT: 1								
	: 60215 HYLNDLK7 - 60261 DEANLAK7 CKT: 1								
SINGLE 3188	: 60920 LINDSTM7 - 62276 SHAFER 7 CKT: C	544.4	543.5	600.0	600.0	90.7	90.6	0.1	
SINGLE 46	: 34015 LIME CK5 - 34016 EMERY 5 CKT: 1	543.3	542.4	600.0	600.0	90.6	90.4	0.2	
SINGLE 2723	: 34021 LANSINGW - 34024 LANS5 4G CKT: 1	543.8	542.9	600.0	600.0	90.6	90.5	0.1	
SINGLE 2782	: 34099 PRAR CK7 - 34098 PR CRK4G CKT: 1	543.4	542.5	600.0	600.0	90.6	90.4	0.2	
SINGLE 3187	: 60915 HASTING8 - 62258 WHASTNG8 CKT: 1	543.8	543.1	600.0	600.0	90.6	90.5	0.1	
SINGLE 1118	: 60187 AS KING7 - 60325 WILOWRV7 CKT: 1	543.7	542.9	600.0	600.0	90.6	90.5	0.1	
SINGLE 1230	: 60236 REDROCK3 - 60238 REDROCK7 CKT: P	543.4	542.7	600.0	600.0	90.6	90.4	0.2	
SINGLE 1231	: 60236 REDROCK3 - 60238 REDROCK7 CKT: P	543.4	542.7	600.0	600.0	90.6	90.4	0.2	
SINGLE 1119	: 60188 RIVERWD7 - 60200 BLK DG27 CKT: 1	543.7	542.9	600.0	600.0	90.6	90.5	0.1	
SHC-CNC/BUL3	: ** MULTIPLE CONTINGENCY **	543.7	542.9	600.0	600.0	90.6	90.5	0.1	
	: 60160 SHERCO 3 - 60202 COON CK3 CKT: 1								
	: 60160 SHERCO 3 - 63031 BUNKER 3 CKT: 1								
SINGLE 1275	: 60265 LOON TP7 - 60830 EASTWD18 CKT: P	543.5	542.7	600.0	600.0	90.6	90.5	0.1	
SINGLE 33	: 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1	543.9	543.1	600.0	600.0	90.6	90.5	0.1	
KOL-CNC/TER3	: ** MULTIPLE CONTINGENCY **	543.8	543.0	600.0	600.0	90.6	90.5	0.1	
	: 60221 KOLMNLK3 - 60202 COON CK3 CKT: 1								
	: 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1								
SINGLE 42	: 34014 ADAMS 5 - 34015 LIME CK5 CKT: 1	543.3	542.5	600.0	600.0	90.6	90.4	0.2	
SINGLE 1152	: 60202 COON CK3 - 60251 TERMINL3 CKT: 1	543.3	542.5	600.0	600.0	90.6	90.4	0.2	
SINGLE 1112	: 60186 AS KING3 - 60187 AS KING7 CKT: 1	543.7	542.9	600.0	600.0	90.6	90.5	0.1	
SINGLE 1151	: 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1	542.9	.....	600.0	.....	90.5	.....	*NEW*	
SINGLE 2520	: 66565 SIOUXCY4 - 66567 DENISON4 CKT: 1	542.9	.....	600.0	.....	90.5	.....	*NEW*	
SINGLE 35	: 34010 HAYWARD5 - 34015 LIME CK5 CKT: 1	543.2	542.3	600.0	600.0	90.5	90.4	0.1	
SINGLE 1153	: 60202 COON CK3 - 60272 MPLEGV23 CKT: 1	543.0	542.3	600.0	600.0	90.5	90.4	0.1	
SINGLE 1077	: 60160 SHERCO 3 - 60202 COON CK3 CKT: 1	543.0	542.2	600.0	600.0	90.5	90.4	0.1	
SINGLE 1175	: 60208 EDINA 7 - 60263 EDEN PR7 CKT: 1	543.0	542.2	600.0	600.0	90.5	90.4	0.1	
SINGLE 2935	: 60188 RIVERWD7 - 62225 BURNVIL7 CKT: 1	542.9	542.2	600.0	600.0	90.5	90.4	0.1	
SINGLE 2950	: 60215 HYLNDLK7 - 60261 DEANLAK7 CKT: 1	543.2	542.4	600.0	600.0	90.5	90.4	0.1	
SINGLE 3010	: 60342 WHAST 7 - 62258 WHASTNG8 CKT: 1	543.0	542.2	600.0	600.0	90.5	90.4	0.1	
SINGLE 1078	: 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1	543.0	542.2	600.0	600.0	90.5	90.4	0.1	
SINGLE 1079	: 60160 SHERCO 3 - 63031 BUNKER 3 CKT: 1	543.1	542.3	600.0	600.0	90.5	90.4	0.1	
SINGLE 3230	: 60982 ALMA 8 - 68874 ALMA 8 CKT: 1	543.2	542.4	600.0	600.0	90.5	90.4	0.1	
SINGLE 1223	: 60234 PARKERS7 - 60259 BASCRK 7 CKT: 1	543.1	542.3	600.0	600.0	90.5	90.4	0.1	
SINGLE 247	: 34137 TRIBOJI5 - 66563 SPENCER5 CKT: 1	543.1	542.4	600.0	600.0	90.5	90.4	0.1	
SINGLE 952	: 60107 W FARIB7 - 60265 LOON TP7 CKT: C	543.1	542.3	600.0	600.0	90.5	90.4	0.1	
SINGLE 163	: 34079 TRAER 5 - 34087 DYSART 5 CKT: 1	543.0	542.2	600.0	600.0	90.5	90.4	0.1	
SINGLE 960	: 60109 WILMART5 - 60110 WILMART7 CKT: 1	542.9	.....	600.0	.....	90.5	.....	*NEW*	
SINGLE 1335	: 60313 PINE LK7 - 60325 WILOWRV7 CKT: 1	543.2	542.4	600.0	600.0	90.5	90.4	0.1	
PKL-EDP/BLL3	: ** MULTIPLE CONTINGENCY **	543.0	542.2	600.0	600.0	90.5	90.4	0.1	
	: 60233 PARKERS3 - 60262 EDEN PR3 CKT: 1								
	: 60233 PARKERS3 - 60192 BLUE LK3 CKT: 1								
SINGLE 1459	: 60789 CIRCLTP8 - 60790 FAIRPRK8 CKT: 1	542.9	.....	600.0	.....	90.5	.....	*NEW*	
SINGLE 1585	: 60982 ALMA 8 - 60983 NELSON 8 CKT: 1	543.1	542.3	600.0	600.0	90.5	90.4	0.1	
SINGLE 961	: 60109 WILMART5 - 60120 BLUEETA5 CKT: 1	543.1	542.3	600.0	600.0	90.5	90.4	0.1	
SINGLE 31	: 34009 WINBAGO5 - 60120 BLUEETA5 CKT: 1	543.0	542.2	600.0	600.0	90.5	90.4	0.1	
BASE CASE	: ** BASE CASE **	541.9	541.2	600.0	600.0	90.3	90.2	0.1	
SINGLE 3508	: 66442 GARRISN7 - 66461 GARISN5G CKT: 1	540.9	.....	600.0	.....	90.2	.....	*NEW*	

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SINGLE 3507 : 66442 GARRISN7 - 66460 GARISN4G CKT: 1   540.9   .....   600.0   .....    90.2   .....   *NEW*
SINGLE 2916 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1   540.8   540.1   600.0   600.0    90.1    90.0     0.1
SINGLE 1063 : 60153 MNTCELO7 - 60269 HASSAN 7 CKT: 1   540.7   .....   600.0   .....    90.1   .....   *NEW*
SINGLE 3003 : 60331 LKFLDXL3 -  6015 G263     CKT: 1   540.4   .....   600.0   .....    90.1   .....   *NEW*
SINGLE 973  : 60114 ELM CRK3 - 60115 ELMCRK 7 CKT: 1   540.5   .....   600.0   .....    90.1   .....   *NEW*
SINGLE 1165 : 60203 COON CK7 - 62090 PRKWOOD7 CKT: 1   540.7   540.0   600.0   600.0    90.1    90.0     0.1
SINGLE 20   : 34006 LAKEFLD3 - 60286 NOBLES 3 CKT: C   540.3   .....   600.0   .....    90.1   .....   *NEW*
SINGLE 1195 : 60216 INDIANA7 - 60351 CRYSTAL7 CKT: P   540.4   .....   600.0   .....    90.1   .....   *NEW*
SINGLE 1130 : 60193 BLUE LK7 - 61476 BLL TR5Y CKT: 5   540.7   .....   600.0   .....    90.1   .....   *NEW*
SINGLE 3331 : 61475 ANS TR2Y - 60021 ANS  72G CKT: 2   540.7   540.0   600.0   600.0    90.1    90.0     0.1
SINGLE 3332 : 61475 ANS TR2Y - 60022 ANS  73G CKT: 2   540.7   540.0   600.0   600.0    90.1    90.0     0.1
SINGLE 3504 : 66441 GARRISN4 - 66457 GARISN1G CKT: 1   540.9   .....   600.0   .....    90.1   .....   *NEW*
SINGLE 3505 : 66441 GARRISN4 - 66458 GARISN2G CKT: 1   540.9   .....   600.0   .....    90.1   .....   *NEW*
SINGLE 3506 : 66441 GARRISN4 - 66459 GARISN3G CKT: 1   540.9   .....   600.0   .....    90.1   .....   *NEW*
SINGLE 2195 : 63358 BUFFALO3 - 63369 JAMESTN3 CKT: 1   540.8   540.0   600.0   600.0    90.1    90.0     0.1
SINGLE 2196 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1   540.8   540.0   600.0   600.0    90.1    90.0     0.1
SINGLE 2199 : 63369 JAMESTN3 - 66791 CENTER 3 CKT: 1   540.6   .....   600.0   .....    90.1   .....   *NEW*
SINGLE 3533 : 66519 OAHE   4 - 66556 OAHE2-3G CKT: 1   540.3   .....   600.0   .....    90.1   .....   *NEW*
SINGLE 3543 : 66540 BIGBND14 - 66542 BGBND12G CKT: 1   540.7   540.0   600.0   600.0    90.1    90.0     0.1
SINGLE 1218 : 60232 OSSEO  7 - 60351 CRYSTAL7 CKT: P   540.4   .....   600.0   .....    90.1   .....   *NEW*
SINGLE 2700 :  6001 YANKEE 7 -  6003 G176     CKT: 1   540.8   540.1   600.0   600.0    90.1    90.0     0.1
SINGLE 1131 : 60193 BLUE LK7 - 61477 BLL TR6Y CKT: 6   540.7   .....   600.0   .....    90.1   .....   *NEW*
SINGLE 2706 : 34008 FOX LK 5 - 34011 FOXLK53G CKT: 1   540.9   540.2   600.0   600.0    90.1    90.0     0.1
SINGLE 1099 : 60181 ALDRICH7 - 60216 INDIANA7 CKT: 1   540.7   540.0   600.0   600.0    90.1    90.0     0.1
SINGLE 21   : 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1   540.3   .....   600.0   .....    90.1   .....   *NEW*
SINGLE 1255 : 60250 TANRSLK7 - 60344 WOODBUR7 CKT: P   540.5   .....   600.0   .....    90.1   .....   *NEW*
BEN-GRC/SCL7: ** MULTIPLE CONTINGENCY **               540.6   .....   600.0   .....    90.1   .....   *NEW*
            : 60143 BENTON 7 - 60146 GRANCTY7 CKT: 1
            : 60143 BENTON 7 - 60348 BENCTP7  CKT: 1
            : 60348 BENCTP7  - 60157 STCLOUD7 CKT: 1
SINGLE 2805 : 34137 TRIBOJI5 - 63897 G298SYS  CKT: 1   540.8   540.1   600.0   600.0    90.1    90.0     0.1
SINGLE 54   : 34018 HAZLTON3 - 34020 HAZL S 5 CKT: 2   540.2   .....   600.0   .....    90.0   .....   *NEW*
SINGLE 2461 : 66507 FTTHOMP4 - 66540 BIGBND14 CKT: 1   540.2   .....   600.0   .....    90.0   .....   *NEW*
SINGLE 60   : 34020 HAZL S 5 - 34135 DUNDEE 5 CKT: 1   540.3   .....   600.0   .....    90.0   .....   *NEW*
SINGLE 1124 : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1   .....   540.1   .....   600.0   .....    90.0  *ELIM*
SINGLE 1229 : 60236 REDROCK3 - 60238 REDROCK7 CKT: P   .....   542.7   .....   600.0   .....    90.4  *ELIM*
SINGLE 2936 : 60200 BLK DG27 - 60013 BLK D73G CKT: 1   .....   542.7   .....   600.0   .....    90.5  *ELIM*
RRK-ASK/CGR7: ** MULTIPLE CONTINGENCY **               .....   545.7   .....   600.0   .....    90.9  *ELIM*
            : 60236 REDROCK3 - 60186 AS KING3 CKT: 1
            : 60238 REDROCK7 - 60204 COTTAGE7 CKT: 1
MNN-HSN/LAP7: ** MULTIPLE CONTINGENCY **               .....   540.1   .....   600.0   .....    90.0  *ELIM*
            : 60153 MNTCELO7 - 60269 HASSAN 7 CKT: 1
            : 60153 MNTCELO7 - 60155 PULASKI7 CKT: 1
WEH-CHE/HAS7: ** MULTIPLE CONTINGENCY **               .....   543.1   .....   600.0   .....    90.5  *ELIM*
            : 60342 WHAST  7 - 60201 CHEMOLT7 CKT: 1
            : 62258 WHASTNG8 - 60915 HASTING8 CKT: 1
SCO-SSK/CAR7: ** MULTIPLE CONTINGENCY **               .....   542.5   .....   600.0   .....    90.4  *ELIM*
            : 60244 SCOTTCO7 - 62975 SHAKOPE7 CKT: 1
            : 60244 SCOTTCO7 - 60243 SCOTTAP7 CKT: 1
            : 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1
            : 60243 SCOTTAP7 - 62666 GLNDALE7 CKT: 1
MOL-RIV/CNC7: ** MULTIPLE CONTINGENCY **               .....   542.3   .....   600.0   .....    90.4  *ELIM*
            : 60229 MOORELK7 - 60203 COON CK7 CKT: 1
            : 60229 MOORELK7 - 60240 RIVRSID7 CKT: 1
WLR-ASK/PNL7: ** MULTIPLE CONTINGENCY **               .....   543.0   .....   600.0   .....    90.5  *ELIM*
            : 60325 WILOWRV7 - 60187 AS KING7 CKT: 1
            : 60325 WILOWRV7 - 60313 PINE LK7 CKT: 1
009   1     : ** MULTIPLE CONTINGENCY **               .....   542.3   .....   600.0   .....    90.4  *ELIM*
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 60151 MNTCELO3 - 60160 SHERCO 3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
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            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
009   4     : ** MULTIPLE CONTINGENCY **                .....   546.7   .....   600.0   .....    91.1  *ELIM*
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
009   6     : ** MULTIPLE CONTINGENCY **                .....   542.6   .....   600.0   .....    90.4  *ELIM*
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
009   8     : ** MULTIPLE CONTINGENCY **                .....   543.7   .....   600.0   .....    90.6  *ELIM*
            : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
022       1 : ** MULTIPLE CONTINGENCY **                .....   545.5   .....   600.0   .....    90.9  *ELIM*
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
            : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
            : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
            : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
022       3 : ** MULTIPLE CONTINGENCY **                .....   546.6   .....   600.0   .....    91.1  *ELIM*
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
022       5 : ** MULTIPLE CONTINGENCY **                .....   542.7   .....   600.0   .....    90.4  *ELIM*
            : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
            : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
            : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
022      10 : ** MULTIPLE CONTINGENCY **                .....   542.3   .....   600.0   .....    90.4  *ELIM*
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
670     1   : ** MULTIPLE CONTINGENCY **                .....   543.3   .....   600.0   .....    90.5  *ELIM*
            : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
            : 63031 BUNKER 3 - 60160 SHERCO 3 CKT: 1
            : 63031 BUNKER 3 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61487 CNCMID2Y CKT: 1
            : 61487 CNCMID2Y - 60203 COON CK7 CKT: 1
            : 61487 CNCMID2Y - 60655 CNCTER29 CKT: 1
            : 63046 BUNKER 4 - 63031 BUNKER 3 CKT: 1
670     2   : ** MULTIPLE CONTINGENCY **                .....   542.7   .....   600.0   .....    90.4  *ELIM*
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            : 63031 BUNKER 3 - 60160 SHERCO 3 CKT: 1
            : 63031 BUNKER 3 - 60202 COON CK3 CKT: 1
            : 63046 BUNKER 4 - 63031 BUNKER 3 CKT: 1
670     3   : ** MULTIPLE CONTINGENCY **              .....   542.5   .....   600.0   .....    90.4  *ELIM*
            : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61487 CNCMID2Y CKT: 1
            : 61487 CNCMID2Y - 60203 COON CK7 CKT: 1
            : 61487 CNCMID2Y - 60655 CNCTER29 CKT: 1
705       4 : ** MULTIPLE CONTINGENCY **              .....   542.6   .....   600.0   .....    90.4  *ELIM*
            : 60233 PARKERS3 - 60262 EDEN PR3 CKT: 1
            : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 2
710   2     : ** MULTIPLE CONTINGENCY **              .....   542.3   .....   600.0   .....    90.4  *ELIM*
            : 62925 DICKNSN7 - 60206 CROWRVR7 CKT: 1
            : 62925 DICKNSN7 - 62667 ST BONI7 CKT: 1
            : 62667 ST BONI7 - 60277 WWACNIA7 CKT: 1
            : 62667 ST BONI7 - 63021 ST BONI8 CKT: 1
715       2 : ** MULTIPLE CONTINGENCY **              .....   542.4   .....   600.0   .....    90.4  *ELIM*
            : 62666 GLNDALE7 - 60243 SCOTTAP7 CKT: 1
            : 60242 SAVAGE 7 - 62668 EGLCKTP7 CKT: 1
            : 62666 GLNDALE7 - 62672 GLNDALE8 CKT: 1
            : 60243 SCOTTAP7 - 60244 SCOTTCO7 CKT: 1
            : 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1
            : 60194 CARVRCO7 - 60931 CARVRCO8 CKT: 1
            : 60190 BLK DOG7 - 60242 SAVAGE 7 CKT: 1
            : 62668 EGLCKTP7 - 62975 SHAKOPE7 CKT: 1
            : 62975 SHAKOPE7 - 60244 SCOTTCO7 CKT: 1
            : 60244 SCOTTCO7 - 60890 SCOTTCO8 CKT: 2
770         : ** MULTIPLE CONTINGENCY **              .....   542.2   .....   600.0   .....    90.4  *ELIM*
            : 60109 WILMART5 - 60110 WILMART7 CKT: 1
            : 60109 WILMART5 - 60120 BLUEETA5 CKT: 1
            : 60120 BLUEETA5 - 34009 WINBAGO5 CKT: 1
SINGLE 2715 : 34016 EMERY  5 - 34912 EMERYST1 CKT: 1   .....   540.2   .....   600.0   .....    90.0  *ELIM*
SINGLE 2772 : 34091 ARNOLD 5 - 34090 ARNOLD1G CKT: 1   .....   546.7   .....   600.0   .....    91.1  *ELIM*
*** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

==================================================================================================================
 33) 60105 PR ISLD3 - 60004 PR IS32G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
050     1   : ** MULTIPLE CONTINGENCY **              569.2   567.0   600.0   600.0    94.9    94.5     0.4
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
            : 39901 COC DPC  - 38342 COC 69   CKT: 1
            : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
050     2   : ** MULTIPLE CONTINGENCY **              569.0   569.0   600.0   600.0    94.8    94.8     0.0
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
SINGLE 2897 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1   565.7   563.4   600.0   600.0    94.3    93.9     0.4
ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **              564.8   562.2   600.0   600.0    94.1    93.7     0.4
            : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1   555.5   554.0   600.0   600.0    92.6    92.3     0.3
050     3   : ** MULTIPLE CONTINGENCY **              554.6   552.7   600.0   600.0    92.4    92.1     0.3
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 39901 COC DPC  - 38342 COC 69   CKT: 1
            : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
SINGLE 1695 : 61948 BYRON  5 - 61950 BYRON  3 CKT: 1   547.0   546.1   600.0   600.0    91.2    91.0     0.2
CNC-KOL/TER3: ** MULTIPLE CONTINGENCY **              547.2   546.3   600.0   600.0    91.2    91.0     0.2
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
SINGLE 2774 : 34091 ARNOLD 5 - 34090 ARNOLD1G CKT: 1   546.8   545.8   600.0   600.0    91.1    91.0     0.1
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CNC-DKN/SHC3: ** MULTIPLE CONTINGENCY **                546.5   545.6   600.0   600.0    91.1    90.9     0.2
            : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1
            : 60202 COON CK3 - 60272 MPLEGV23 CKT: 1
009   4     : ** MULTIPLE CONTINGENCY **                546.7   545.7   600.0   600.0    91.1    91.0     0.1
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
022       3 : ** MULTIPLE CONTINGENCY **                546.6   545.6   600.0   600.0    91.1    90.9     0.2
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
022       1 : ** MULTIPLE CONTINGENCY **                545.5   544.5   600.0   600.0    90.9    90.8     0.1
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
            : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
            : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
            : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
RRK-ASK/CGR7: ** MULTIPLE CONTINGENCY **                545.6   544.7   600.0   600.0    90.9    90.8     0.1
            : 60236 REDROCK3 - 60186 AS KING3 CKT: 1
            : 60238 REDROCK7 - 60204 COTTAGE7 CKT: 1
SINGLE 1696 : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1   544.8   543.9   600.0   600.0    90.8    90.7     0.1
SINGLE 2719 : 34016 EMERY  5 - 64252 FLOYD  5 CKT: 1   544.8   543.8   600.0   600.0    90.8    90.6     0.2
SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1   544.7   543.8   600.0   600.0    90.8    90.6     0.2
SINGLE 1157 : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1   544.9   544.0   600.0   600.0    90.8    90.7     0.1
SINGLE 1196 : 60217 INVRHLS3 - 60218 INVRHLS7 CKT: 1   544.2   542.9   600.0   600.0    90.7    90.5     0.2
SINGLE 1129 : 60193 BLUE LK7 - 60215 HYLNDLK7 CKT: 1   543.9   543.1   600.0   600.0    90.7    90.5     0.2
SINGLE 2704 : 34006 LAKEFLD3 - 63875 RAUN   3 CKT: 1   544.5   543.2   600.0   600.0    90.7    90.5     0.2
SINGLE 1140 : 60196 CHI    7 - 60920 LINDSTM7 CKT: C   543.6   542.8   600.0   600.0    90.6    90.5     0.1
SINGLE 955  : 60107 W FARIB7 - 61952 S FARIB5 CKT: 1   543.4   542.6   600.0   600.0    90.6    90.4     0.2
X0897-0898O1: ** MULTIPLE CONTINGENCY **                543.4   542.6   600.0   600.0    90.6    90.4     0.2
            : 60215 HYLNDLK7 - 60193 BLUE LK7 CKT: 1
            : 60215 HYLNDLK7 - 60261 DEANLAK7 CKT: 1
            : 60261 DEANLAK7 - 60244 SCOTTCO7 CKT: 1
HYL-BLL/DLK7: ** MULTIPLE CONTINGENCY **                543.5   542.6   600.0   600.0    90.6    90.4     0.2
            : 60215 HYLNDLK7 - 60193 BLUE LK7 CKT: 1
            : 60215 HYLNDLK7 - 60261 DEANLAK7 CKT: 1
BYN-WOW/KAN5: ** MULTIPLE CONTINGENCY **                543.6   542.8   600.0   600.0    90.6    90.5     0.1
            : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1
            : 61161 BYRON  8 - 60799 KASSON 8 CKT: 1
SINGLE 1179 : 60209 ELLOTPK7 - 60246 SO TOWN7 CKT: 1   543.4   542.6   600.0   600.0    90.6    90.4     0.2
SINGLE 1002 : 60126 SPLT RK3 - 60131 SPLTRTB3 CKT: 1   543.6   542.8   600.0   600.0    90.6    90.5     0.1
009   8     : ** MULTIPLE CONTINGENCY **                543.8   542.8   600.0   600.0    90.6    90.5     0.1
            : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 1270 : 60258 WILSON 7 - 60260 BLOOMGT7 CKT: 1   543.5   542.7   600.0   600.0    90.6    90.5     0.1
SINGLE 1652 : 61051 STCRFL5G - 61131 LAW CRK5 CKT: C   543.7   542.8   600.0   600.0    90.6    90.5     0.1
SINGLE 1009 : 60131 SPLTRTB3 - 66564 SIOUXCY3 CKT: 1   543.6   542.9   600.0   600.0    90.6    90.5     0.1
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SINGLE 1697 : 61952 S FARIB5 - 61964 OWATNNA5 CKT: 1   543.6   542.7   600.0   600.0    90.6    90.5     0.1
SINGLE 180  : 34091 ARNOLD 5 - 34534 ARNOLD Y CKT: 1   543.9   543.0   600.0   600.0    90.6    90.5     0.1
SINGLE 181  : 34093 ARNOLD 3 - 34534 ARNOLD Y CKT: 1   543.9   543.0   600.0   600.0    90.6    90.5     0.1
SINGLE 3188 : 60920 LINDSTM7 - 62276 SHAFER 7 CKT: C   543.4   542.6   600.0   600.0    90.6    90.4     0.2
SINGLE 3280 : 61051 STCRFL5G - 69565 APL RVR5 CKT: C   543.9   543.1   600.0   600.0    90.6    90.5     0.1
SINGLE 3318 : 61128 LAW CRK7 - 62276 SHAFER 7 CKT: C   543.3   542.5   600.0   600.0    90.6    90.4     0.2
SINGLE 3521 : 66506 FTTHOMP3 - 66571 GR ISLD3 CKT: 1   543.3   542.5   600.0   600.0    90.6    90.4     0.2
SINGLE 1112 : 60186 AS KING3 - 60187 AS KING7 CKT: 1   542.7   541.9   600.0   600.0    90.5    90.3     0.2
670     1   : ** MULTIPLE CONTINGENCY **               543.1   542.3   600.0   600.0    90.5    90.4     0.1
            : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
            : 63031 BUNKER 3 - 60160 SHERCO 3 CKT: 1
            : 63031 BUNKER 3 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61487 CNCMID2Y CKT: 1
            : 61487 CNCMID2Y - 60203 COON CK7 CKT: 1
            : 61487 CNCMID2Y - 60655 CNCTER29 CKT: 1
            : 63046 BUNKER 4 - 63031 BUNKER 3 CKT: 1
SINGLE 33   : 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1   542.9   542.1   600.0   600.0    90.5    90.4     0.1
SINGLE 2723 : 34021 LANSINGW - 34024 LANS5 4G CKT: 1   542.8   541.9   600.0   600.0    90.5    90.3     0.2
SHC-CNC/BUL3: ** MULTIPLE CONTINGENCY **               542.7   541.9   600.0   600.0    90.5    90.3     0.2
            : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
            : 60160 SHERCO 3 - 63031 BUNKER 3 CKT: 1
WEH-CHE/HAS7: ** MULTIPLE CONTINGENCY **               542.9   542.1   600.0   600.0    90.5    90.4     0.1
            : 60342 WHAST  7 - 60201 CHEMOLT7 CKT: 1
            : 62258 WHASTNG8 - 60915 HASTING8 CKT: 1
WLR-ASK/PNL7: ** MULTIPLE CONTINGENCY **               542.8   542.0   600.0   600.0    90.5    90.3     0.2
            : 60325 WILOWRV7 - 60187 AS KING7 CKT: 1
            : 60325 WILOWRV7 - 60313 PINE LK7 CKT: 1
SINGLE 3187 : 60915 HASTING8 - 62258 WHASTNG8 CKT: 1   542.9   542.1   600.0   600.0    90.5    90.3     0.2
SINGLE 1118 : 60187 AS KING7 - 60325 WILOWRV7 CKT: 1   542.7   541.9   600.0   600.0    90.5    90.3     0.2
KOL-CNC/TER3: ** MULTIPLE CONTINGENCY **               542.8   542.0   600.0   600.0    90.5    90.3     0.2
            : 60221 KOLMNLK3 - 60202 COON CK3 CKT: 1
            : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
SINGLE 2950 : 60215 HYLNDLK7 - 60261 DEANLAK7 CKT: 1   542.2   541.4   600.0   600.0    90.4    90.2     0.2
SCO-SSK/CAR7: ** MULTIPLE CONTINGENCY **               542.2   541.5   600.0   600.0    90.4    90.2     0.2
            : 60244 SCOTTCO7 - 62975 SHAKOPE7 CKT: 1
            : 60244 SCOTTCO7 - 60243 SCOTTAP7 CKT: 1
            : 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1
            : 60243 SCOTTAP7 - 62666 GLNDALE7 CKT: 1
MOL-RIV/CNC7: ** MULTIPLE CONTINGENCY **               542.1   541.4   600.0   600.0    90.4    90.2     0.2
            : 60229 MOORELK7 - 60203 COON CK7 CKT: 1
            : 60229 MOORELK7 - 60240 RIVRSID7 CKT: 1
SINGLE 1223 : 60234 PARKERS7 - 60259 BASCRK 7 CKT: 1   542.1   541.4   600.0   600.0    90.4    90.2     0.2
009   1     : ** MULTIPLE CONTINGENCY **               542.1   541.3   600.0   600.0    90.4    90.2     0.2
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 60151 MNTCELO3 - 60160 SHERCO 3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 1230 : 60236 REDROCK3 - 60238 REDROCK7 CKT: P   542.5   541.7   600.0   600.0    90.4    90.3     0.1
009   6     : ** MULTIPLE CONTINGENCY **               542.4   541.6   600.0   600.0    90.4    90.3     0.1
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 3230 : 60982 ALMA   8 - 68874 ALMA 8   CKT: 1   542.2   541.4   600.0   600.0    90.4    90.2     0.2
SINGLE 1231 : 60236 REDROCK3 - 60238 REDROCK7 CKT: P   542.5   541.7   600.0   600.0    90.4    90.3     0.1
SINGLE 1119 : 60188 RIVERWD7 - 60200 BLK DG27 CKT: 1   542.7   541.9   600.0   600.0    90.4    90.3     0.1
022       5 : ** MULTIPLE CONTINGENCY **               542.5   541.7   600.0   600.0    90.4    90.3     0.1
            : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
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             : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
             : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
             : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
             : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
             : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
022      10 : ** MULTIPLE CONTINGENCY **              542.2   541.4   600.0   600.0    90.4    90.2     0.2
             : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
             : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
             : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
             : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
SINGLE 1275 : 60265 LOON TP7 - 60830 EASTWD18 CKT: P   542.6   541.8   600.0   600.0    90.4    90.3     0.1
670      2  : ** MULTIPLE CONTINGENCY **              542.4   541.7   600.0   600.0    90.4    90.3     0.1
             : 63031 BUNKER 3 - 60160 SHERCO 3 CKT: 1
             : 63031 BUNKER 3 - 60202 COON CK3 CKT: 1
             : 63046 BUNKER 4 - 63031 BUNKER 3 CKT: 1
670      3  : ** MULTIPLE CONTINGENCY **              542.3   541.6   600.0   600.0    90.4    90.3     0.1
             : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
             : 60202 COON CK3 - 61487 CNCMID2Y CKT: 1
             : 61487 CNCMID2Y - 60203 COON CK7 CKT: 1
             : 61487 CNCMID2Y - 60655 CNCTER29 CKT: 1
705       4 : ** MULTIPLE CONTINGENCY **              542.4   541.6   600.0   600.0    90.4    90.3     0.1
             : 60233 PARKERS3 - 60262 EDEN PR3 CKT: 1
             : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 2
715       2 : ** MULTIPLE CONTINGENCY **              542.2   541.4   600.0   600.0    90.4    90.2     0.2
             : 62666 GLNDALE7 - 60243 SCOTTAP7 CKT: 1
             : 60242 SAVAGE 7 - 62668 EGLCKTP7 CKT: 1
             : 62666 GLNDALE7 - 62672 GLNDALE8 CKT: 1
             : 60243 SCOTTAP7 - 60244 SCOTTCO7 CKT: 1
             : 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1
             : 60194 CARVRCO7 - 60931 CARVRCO8 CKT: 1
             : 60190 BLK DOG7 - 60242 SAVAGE 7 CKT: 1
             : 62668 EGLCKTP7 - 62975 SHAKOPE7 CKT: 1
             : 62975 SHAKOPE7 - 60244 SCOTTCO7 CKT: 1
             : 60244 SCOTTCO7 - 60890 SCOTTCO8 CKT: 2
SINGLE 1335 : 60313 PINE LK7 - 60325 WILOWRV7 CKT: 1   542.3   541.4   600.0   600.0    90.4    90.2     0.2
SINGLE 42   : 34014 ADAMS  5 - 34015 LIME CK5 CKT: 1   542.3   541.5   600.0   600.0    90.4    90.2     0.2
SINGLE 1079 : 60160 SHERCO 3 - 63031 BUNKER 3 CKT: 1   542.1   541.3   600.0   600.0    90.4    90.2     0.2
SINGLE 1152 : 60202 COON CK3 - 60251 TERMINL3 CKT: 1   542.3   541.5   600.0   600.0    90.4    90.3     0.1
SINGLE 952  : 60107 W FARIB7 - 60265 LOON TP7 CKT: C   542.1   541.3   600.0   600.0    90.4    90.2     0.2
SINGLE 1138 : 60196 CHI    7 - 60199 CHIS CO3 CKT: 1   542.5   541.8   600.0   600.0    90.4    90.3     0.1
SINGLE 46   : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1   542.3   541.5   600.0   600.0    90.4    90.2     0.2
SINGLE 35   : 34010 HAYWARD5 - 34015 LIME CK5 CKT: 1   542.2   541.3   600.0   600.0    90.4    90.2     0.2
SINGLE 2782 : 34099 PRAR CK7 - 34098 PR CRK4G CKT: 1   542.4   541.5   600.0   600.0    90.4    90.2     0.2
PKL-EDP/BLL3: ** MULTIPLE CONTINGENCY **              542.0   541.2   600.0   600.0    90.3    90.2     0.1
             : 60233 PARKERS3 - 60262 EDEN PR3 CKT: 1
             : 60233 PARKERS3 - 60192 BLUE LK3 CKT: 1
SINGLE 31   : 34009 WINBAGO5 - 60120 BLUEETA5 CKT: 1   542.0   541.2   600.0   600.0    90.3    90.2     0.1
SINGLE 1077 : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1   542.0   541.3   600.0   600.0    90.3    90.2     0.1
SINGLE 1078 : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1   542.0   541.2   600.0   600.0    90.3    90.2     0.1
SINGLE 2935 : 60188 RIVERWD7 - 62225 BURNVIL7 CKT: 1   541.9   541.2   600.0   600.0    90.3    90.2     0.1
705       2 : ** MULTIPLE CONTINGENCY **              542.0   .....   600.0   .....    90.3   .....   *NEW*
             : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1
             : 60233 PARKERS3 - 60262 EDEN PR3 CKT: 1
             : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 2
SINGLE 1151 : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1   542.0   .....   600.0   .....    90.3   .....   *NEW*
710   2     : ** MULTIPLE CONTINGENCY **              542.0   541.3   600.0   600.0    90.3    90.2     0.1
             : 62925 DICKNSN7 - 60206 CROWRVR7 CKT: 1
             : 62925 DICKNSN7 - 62667 ST BONI7 CKT: 1
             : 62667 ST BONI7 - 60277 WWACNIA7 CKT: 1
             : 62667 ST BONI7 - 63021 ST BONI8 CKT: 1
SINGLE 3010 : 60342 WHAST  7 - 62258 WHASTNG8 CKT: 1   542.0   541.2   600.0   600.0    90.3    90.2     0.1
770         : ** MULTIPLE CONTINGENCY **              542.0   541.2   600.0   600.0    90.3    90.2     0.1
             : 60109 WILMART5 - 60110 WILMART7 CKT: 1
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            : 60109 WILMART5 - 60120 BLUEETA5 CKT: 1
            : 60120 BLUEETA5 - 34009 WINBAGO5 CKT: 1
SINGLE 163  : 34079 TRAER  5 - 34087 DYSART 5 CKT: 1   542.0   541.2   600.0   600.0    90.3    90.2     0.1
SINGLE 1153 : 60202 COON CK3 - 60272 MPLEGV23 CKT: 1   542.0   541.3   600.0   600.0    90.3    90.2     0.1
SINGLE 1459 : 60789 CIRCLTP8 - 60790 FAIRPRK8 CKT: 1   542.0   .....   600.0   .....    90.3   .....   *NEW*
SINGLE 1585 : 60982 ALMA   8 - 60983 NELSON 8 CKT: 1   542.1   541.3   600.0   600.0    90.3    90.2     0.1
SINGLE 960  : 60109 WILMART5 - 60110 WILMART7 CKT: 1   542.0   .....   600.0   .....    90.3   .....   *NEW*
SINGLE 1175 : 60208 EDINA  7 - 60263 EDEN PR7 CKT: 1   542.0   541.3   600.0   600.0    90.3    90.2     0.1
SINGLE 961  : 60109 WILMART5 - 60120 BLUEETA5 CKT: 1   542.1   541.3   600.0   600.0    90.3    90.2     0.1
SINGLE 2520 : 66565 SIOUXCY4 - 66567 DENISON4 CKT: 1   541.9   .....   600.0   .....    90.3   .....   *NEW*
SINGLE 247  : 34137 TRIBOJI5 - 66563 SPENCER5 CKT: 1   542.1   541.5   600.0   600.0    90.3    90.2     0.1
BASE CASE   : **       BASE CASE      **              540.9   540.2   600.0   600.0    90.2    90.0     0.2
SINGLE 972  : 60114 ELM CRK3 - 60151 MNTCELO3 CKT: 1   .....   543.1   .....   600.0   .....    90.5  *ELIM*
SINGLE 1113 : 60186 AS KING3 - 60236 REDROCK3 CKT: 1   .....   544.2   .....   600.0   .....    90.7  *ELIM*
SINGLE 1229 : 60236 REDROCK3 - 60238 REDROCK7 CKT: P   .....   541.7   .....   600.0   .....    90.3  *ELIM*
SINGLE 2936 : 60200 BLK DG27 - 60013 BLK D73G CKT: 1   .....   541.7   .....   600.0   .....    90.3  *ELIM*

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  34) 60107 W FARIB7 - 61952 S FARIB5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 1274 : 60264 LOON LK7 - 61976 LOON LK8 CKT: 1   206.4   205.8   173.0   173.0   119.3   119.0     0.3
SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   202.3   201.6   173.0   173.0   116.9   116.6     0.3
SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   184.7   183.6   173.0   173.0   106.7   106.1     0.6
SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1   175.2   174.7   173.0   173.0   101.2   101.0     0.2
SINGLE 1459 : 60789 CIRCLTP8 - 60790 FAIRPRK8 CKT: 1   172.5   172.0   173.0   173.0    99.7    99.4     0.3
SINGLE 1458 : 60788 VALLYTP8 - 60789 CIRCLTP8 CKT: 1   171.5   171.0   173.0   173.0    99.2    98.9     0.3
SINGLE 33   : 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1   171.4   170.9   173.0   173.0    99.1    98.8     0.3
SINGLE 1456 : 60786 DUNDAS 8 - 60788 VALLYTP8 CKT: 1   171.1   170.7   173.0   173.0    98.9    98.6     0.3
SINGLE 1701 : 61972 OWATANA1 - 61976 LOON LK8 CKT: 1   170.6   170.1   173.0   173.0    98.6    98.3     0.3
SINGLE 1455 : 60786 DUNDAS 8 - 60787 NOFIELD8 CKT: 1   168.4   167.9   173.0   173.0    97.3    97.1     0.2
SINGLE 1463 : 60791 FARIBLT8 - 60794 NRSTRND8 CKT: P   166.3   165.8   173.0   173.0    96.1    95.9     0.2
SINGLE 954  : 60107 W FARIB7 - 60792 WFARBLT8 CKT: P   166.0   165.6   173.0   173.0    96.0    95.7     0.3
SINGLE 1466 : 60796 KENYON 8 - 60797 KENYNTP8 CKT: 1   165.3   164.8   173.0   173.0    95.5    95.3     0.2
SINGLE 1467 : 60796 KENYON 8 - 60819 CHERYTP8 CKT: 1   165.0   164.5   173.0   173.0    95.4    95.1     0.3
SINGLE 964  : 60110 WILMART7 - 60194 CARVRCO7 CKT: 1   164.8   164.4   173.0   173.0    95.3    95.0     0.3
SINGLE 961  : 60109 WILMART5 - 60120 BLUEETA5 CKT: 1   164.7   164.4   173.0   173.0    95.2    95.0     0.2
SINGLE 31   : 34009 WINBAGO5 - 60120 BLUEETA5 CKT: 1   164.6   164.3   173.0   173.0    95.2    95.0     0.2
SINGLE 1478 : 60818 ZUMBRTA8 - 60819 CHERYTP8 CKT: 1   164.7   164.2   173.0   173.0    95.2    94.9     0.3
SINGLE 1652 : 61051 STCRFL5G - 61131 LAW CRK5 CKT: C   164.7   164.3   173.0   173.0    95.2    94.9     0.3
SINGLE 960  : 60109 WILMART5 - 60110 WILMART7 CKT: 1   164.7   164.3   173.0   173.0    95.2    95.0     0.2
SINGLE 482  : 34308 WASECAT8 - 61160 MERIDAN8 CKT: 1   164.4   164.0   173.0   173.0    95.1    94.8     0.3
SINGLE 481  : 34308 WASECAT8 - 60829 WAS MUN8 CKT: 1   164.4   164.0   173.0   173.0    95.1    94.8     0.3
SINGLE 1002 : 60126 SPLT RK3 - 60131 SPLTRTB3 CKT: 1   164.5   164.1   173.0   173.0    95.1    94.9     0.2
SINGLE 1009 : 60131 SPLTRTB3 - 66564 SIOUXCY3 CKT: 1   164.5   164.1   173.0   173.0    95.1    94.9     0.2
SINGLE 1140 : 60196 CHI    7 - 60920 LINDSTM7 CKT: C   164.3   163.9   173.0   173.0    95.0    94.7     0.3
SINGLE 46   : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1   164.4   164.0   173.0   173.0    95.0    94.8     0.2
SINGLE 473  : 34299 WASECAJ8 - 61160 MERIDAN8 CKT: 1   164.3   163.8   173.0   173.0    95.0    94.7     0.3
SINGLE 948  : 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1   164.3   163.8   173.0   173.0    94.9    94.7     0.2
SINGLE 1197 : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1   163.9   163.5   173.0   173.0    94.8    94.5     0.3
SINGLE 1126 : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1   163.8   163.4   173.0   173.0    94.7    94.5     0.2
SINGLE 42   : 34014 ADAMS  5 - 34015 LIME CK5 CKT: 1   163.7   163.3   173.0   173.0    94.7    94.4     0.3
SINGLE 1118 : 60187 AS KING7 - 60325 WILOWRV7 CKT: 1   163.6   163.2   173.0   173.0    94.6    94.3     0.3
SINGLE 1462 : 60791 FARIBLT8 - 60792 WFARBLT8 CKT: 1   163.6   163.2   173.0   173.0    94.6    94.3     0.3
SINGLE 1481 : 60823 REDWING8 - 60824 FRONTNC8 CKT: 1   163.3   162.9   173.0   173.0    94.4    94.2     0.2
SINGLE 32   : 34009 WINBAGO5 - 61932 RUTLAND5 CKT: 1   163.4   162.9   173.0   173.0    94.4    94.2     0.2
SINGLE 470  : 34298 MEDFRDJ8 - 34299 WASECAJ8 CKT: 1   163.4   163.0   173.0   173.0    94.4    94.2     0.2
SINGLE 1483 : 60824 FRONTNC8 - 61960 LAKECITY CKT: 1   163.2   162.8   173.0   173.0    94.3    94.1     0.2
SINGLE 247  : 34137 TRIBOJI5 - 66563 SPENCER5 CKT: 1   163.2   163.1   173.0   173.0    94.3    94.3     0.0
SINGLE 1461 : 60790 FAIRPRK8 - 60792 WFARBLT8 CKT: 1   163.2   162.8   173.0   173.0    94.3    94.1     0.2
SINGLE 1335 : 60313 PINE LK7 - 60325 WILOWRV7 CKT: 1   163.0   162.6   173.0   173.0    94.2    94.0     0.2
SINGLE 1114 : 60186 AS KING3 - 60221 KOLMNLK3 CKT: 1   162.7   162.3   173.0   173.0    94.1    93.8     0.3
SINGLE 1003 : 60126 SPLT RK3 - 60286 NOBLES 3 CKT: C   162.9   162.5   173.0   173.0    94.1    93.9     0.2
SINGLE 1376 : 60650 WILMART8 - 61155 JOHNSON8 CKT: 1   162.8   162.4   173.0   173.0    94.1    93.9     0.2
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SINGLE 34   : 34010 HAYWARD5 - 34014 ADAMS  5 CKT: 1   162.7   162.3   173.0   173.0    94.1    93.8     0.3
SINGLE 1476 : 60813 SIBLYPK8 - 61155 JOHNSON8 CKT: 1   162.8   162.4   173.0   173.0    94.1    93.9     0.2
SINGLE 1452 : 60783 JORDAN 8 - 60936 NPRAG2T8 CKT: 1   162.7   162.3   173.0   173.0    94.0    93.8     0.2
SINGLE 1356 : 60327 T RIVFL7 - 60330 CRYSTAL7 CKT: 1   162.6   162.2   173.0   173.0    94.0    93.8     0.2
SINGLE 1358 : 60329 CRYSTAL5 - 60330 CRYSTAL7 CKT: 1   162.6   162.2   173.0   173.0    94.0    93.8     0.2
SINGLE 953  : 60107 W FARIB7 - 60792 WFARBLT8 CKT: 1   162.5   162.1   173.0   173.0    94.0    93.7     0.3
SINGLE 2520 : 66565 SIOUXCY4 - 66567 DENISON4 CKT: 1   162.6   162.2   173.0   173.0    94.0    93.7     0.3
SINGLE 1157 : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1   162.5   162.1   173.0   173.0    93.9    93.7     0.2
SINGLE 24   : 34007 LAKEFLD5 - 34137 TRIBOJI5 CKT: 1   162.5   162.4   173.0   173.0    93.9    93.9     0.0
SINGLE 1361 : 60336 NSSJCT 7 - 60337 NSSTAP 7 CKT: 1   162.3   161.9   173.0   173.0    93.8    93.6     0.2
SINGLE 1362 : 60337 NSSTAP 7 - 60338 NSSTL  7 CKT: 1   162.3   161.9   173.0   173.0    93.8    93.6     0.2
SINGLE 28   : 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1   162.3   .....   173.0   .....    93.8   .....   *NEW*
SINGLE 1236 : 60238 REDROCK7 - 60336 NSSJCT 7 CKT: 1   162.3   161.9   173.0   173.0    93.8    93.6     0.2
BASE CASE   : **       BASE CASE      **              161.3   160.9   173.0   173.0    93.3    93.0     0.3
SINGLE 1292 : 60287 NOBLES 7 - 60369 FENTON 7 CKT: C   160.3   159.9   173.0   173.0    92.7    92.4     0.3
SINGLE 1198 : 60218 INVRHLS7 - 60220 INVRGRV7 CKT: 1   160.3   159.9   173.0   173.0    92.7    92.4     0.3
SINGLE 1230 : 60236 REDROCK3 - 60238 REDROCK7 CKT: P   160.3   159.9   173.0   173.0    92.7    92.4     0.3
SINGLE 1231 : 60236 REDROCK3 - 60238 REDROCK7 CKT: P   160.3   159.9   173.0   173.0    92.7    92.4     0.3
SINGLE 1176 : 60208 EDINA  7 - 60280 NINE MI7 CKT: 1   160.3   159.9   173.0   173.0    92.7    92.4     0.3
SINGLE 447  : 34279 PRAT T 8 - 34296 STELCTR8 CKT: 1   160.3   159.9   173.0   173.0    92.7    92.4     0.3
SINGLE 1001 : 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1   160.3   159.9   173.0   173.0    92.6    92.4     0.2
SINGLE 1175 : 60208 EDINA  7 - 60263 EDEN PR7 CKT: 1   160.2   159.8   173.0   173.0    92.6    92.4     0.2
SINGLE 2447 : 66503 BLAIR  4 - 66550 GRANITF4 CKT: 1   160.3   159.9   173.0   173.0    92.6    92.4     0.2
SINGLE 1008 : 60130 SPLTRTA3 - 66537 WHITE  3 CKT: 1   160.3   159.8   173.0   173.0    92.6    92.4     0.2
SINGLE 2700 :  6001 YANKEE 7 -  6003 G176     CKT: 1   160.2   159.7   173.0   173.0    92.6    92.3     0.3
SINGLE 1166 : 60204 COTTAGE7 - 60238 REDROCK7 CKT: 1   159.9   159.5   173.0   173.0    92.4    92.2     0.2
SINGLE 448  : 34279 PRAT T 8 - 61972 OWATANA1 CKT: 1   159.8   159.4   173.0   173.0    92.4    92.2     0.2
SINGLE 1042 : 60145 FRANKLN7 - 61954 REDFLST7 CKT: P   159.9   159.5   173.0   173.0    92.4    92.2     0.2
SINGLE 1179 : 60209 ELLOTPK7 - 60246 SO TOWN7 CKT: 1   159.8   159.4   173.0   173.0    92.4    92.1     0.3
SINGLE 956  : 60108 WILMART3 - 60110 WILMART7 CKT: 1   159.8   159.4   173.0   173.0    92.3    92.1     0.2
SINGLE 957  : 60108 WILMART3 - 60110 WILMART7 CKT: 2   159.7   159.3   173.0   173.0    92.3    92.1     0.2
SINGLE 974  : 60114 ELM CRK3 - 60151 MNTCELO3 CKT: 1   159.8   159.3   173.0   173.0    92.3    92.1     0.2
SINGLE 1130 : 60193 BLUE LK7 - 61476 BLL TR5Y CKT: 5   159.6   159.2   173.0   173.0    92.3    92.0     0.3
SINGLE 945  : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1   159.6   159.2   173.0   173.0    92.3    92.0     0.3
SINGLE 1053 : 60148 MINVALY7 - 61954 REDFLST7 CKT: P   159.7   159.3   173.0   173.0    92.3    92.1     0.2
SINGLE 476  : 34300 MONTGMY8 - 62876 FRLK TP8 CKT: 1   159.8   159.4   173.0   173.0    92.3    92.1     0.2
SINGLE 2461 : 66507 FTTHOMP4 - 66540 BIGBND14 CKT: 1   159.6   159.2   173.0   173.0    92.2    92.0     0.2
SINGLE 949  : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 1   159.5   159.1   173.0   173.0    92.2    92.0     0.2
SINGLE 1131 : 60193 BLUE LK7 - 61477 BLL TR6Y CKT: 6   159.6   159.2   173.0   173.0    92.2    92.0     0.2
SINGLE 950  : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2   159.4   159.0   173.0   173.0    92.1    91.9     0.2
SINGLE 1470 : 60799 KASSON 8 - 61161 BYRON  8 CKT: 1   159.3   158.9   173.0   173.0    92.1    91.8     0.3
SINGLE 474  : 34299 WASECAJ8 - 62876 FRLK TP8 CKT: 1   159.3   158.9   173.0   173.0    92.1    91.9     0.2
SINGLE 946  : 60104 CANNFLS7 - 60801 CNFLSTR8 CKT: 1   159.3   158.9   173.0   173.0    92.1    91.8     0.3
SINGLE 1464 : 60793 MORISTN8 - 60805 WATRVIL8 CKT: 1   159.2   158.8   173.0   173.0    92.0    91.8     0.2
SINGLE 2699 :  6001 YANKEE 7 -  6002 YANKGEN  CKT: 1   158.9   158.5   173.0   173.0    91.9    91.6     0.3
SINGLE 477  : 34301 NEWPRAG8 - 60936 NPRAG2T8 CKT: 1   159.1   158.7   173.0   173.0    91.9    91.7     0.2
SINGLE 1679 : 61161 BYRON  8 - 61948 BYRON  5 CKT: 1   158.9   158.5   173.0   173.0    91.8    91.6     0.2
SINGLE 940  : 60015 ANSON CG - 60129 SPLT RK7 CKT: 1   158.7   158.3   173.0   173.0    91.7    91.5     0.2
SINGLE 1375 : 60650 WILMART8 - 60831 EASTWD28 CKT: 1   158.6   158.2   173.0   173.0    91.7    91.4     0.3
SINGLE 941  : 60015 ANSON CG - 61475 ANS TR2Y CKT: 2   158.7   158.3   173.0   173.0    91.7    91.5     0.2
SINGLE 20   : 34006 LAKEFLD3 - 60286 NOBLES 3 CKT: C   157.9   157.4   173.0   173.0    91.3    91.0     0.3
SINGLE 475  : 34300 MONTGMY8 - 34301 NEWPRAG8 CKT: 1   157.6   157.2   173.0   173.0    91.1    90.9     0.2
SINGLE 2703 : 34006 LAKEFLD3 -  3400 G164     CKT: 1   157.6   157.2   173.0   173.0    91.1    90.9     0.2
SINGLE 972  : 60113 DOME   7 - 60830 EASTWD18 CKT: P   157.5   157.1   173.0   173.0    91.0    90.8     0.2
SINGLE 963  : 60110 WILMART7 - 60113 DOME   7 CKT: C   157.5   157.1   173.0   173.0    91.0    90.8     0.2
SINGLE 1199 : 60218 INVRHLS7 - 60223 KOCHREF7 CKT: 1   157.0   156.6   173.0   173.0    90.8    90.5     0.3
SINGLE 1229 : 60236 REDROCK3 - 60238 REDROCK7 CKT: P   .....   159.9   .....   173.0   .....    92.4  *ELIM*
SINGLE 2702 : 34006 LAKEFLD3 - 63875 RAUN   3 CKT: 1   .....   165.7   .....   173.0   .....    95.8  *ELIM*
*** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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 35) 60150 MNVLTAP4 - 66550 GRANITF4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 959	: 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1	369.9	367.2	318.0	318.0	122.2	121.0	1.2
SINGLE 1069	: 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C	372.4	370.0	318.0	318.0	120.0	119.0	1.0
SINGLE 1008	: 60130 SPLTRTA3 - 66537 WHITE 3 CKT: 1	361.8	360.8	318.0	318.0	118.6	118.2	0.4
SINGLE 1001	: 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1	361.9	360.8	318.0	318.0	118.6	118.2	0.4
SINGLE 958	: 60108 WILMART3 - 60192 BLUE LK3 CKT: 1	344.9	343.0	318.0	318.0	113.3	112.4	0.9
SINGLE 1068	: 60156 PYNSVIL7 - 60162 WAKEFLD7 CKT: C	336.6	334.6	318.0	318.0	108.0	107.3	0.7
SINGLE 20	: 34006 LAKEFLD3 - 60286 NOBLES 3 CKT: C	330.9	329.5	318.0	318.0	107.2	106.7	0.5
SINGLE 1048	: 60148 MINVALY7 - 60149 MINVALT4 CKT: C	330.8	328.9	318.0	318.0	106.2	105.5	0.7
SINGLE 1055	: 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1	330.8	328.9	318.0	318.0	106.2	105.5	0.7
SINGLE 1002	: 60126 SPLT RK3 - 60131 SPLTRTB3 CKT: 1	327.1	325.4	318.0	318.0	105.9	105.3	0.6
SINGLE 1009	: 60131 SPLTRTB3 - 66564 SIOUXCY3 CKT: 1	327.1	325.4	318.0	318.0	105.9	105.3	0.6
SINGLE 1053	: 60148 MINVALY7 - 61954 REDFLST7 CKT: P	328.2	326.6	318.0	318.0	105.8	105.2	0.6
SINGLE 1042	: 60145 FRANKLN7 - 61954 REDFLST7 CKT: P	327.1	325.5	318.0	318.0	105.4	104.8	0.6
SINGLE 1013	: 60133 SHEYNNE4 - 63336 AUDUBON4 CKT: 1	326.2	324.6	318.0	318.0	105.4	104.9	0.5
SINGLE 1049	: 60148 MINVALY7 - 60171 LYON CO7 CKT: 1	326.4	324.6	318.0	318.0	105.2	104.4	0.8
SINGLE 1054	: 60148 MINVALY7 - 66551 GRANITF7 CKT: 1	325.9	324.0	318.0	318.0	104.9	104.2	0.7
SINGLE 21	: 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1	323.9	321.0	318.0	318.0	104.7	103.6	1.1
SINGLE 32	: 34009 WINBAGO5 - 61932 RUTLAND5 CKT: 1	323.1	321.3	318.0	318.0	104.4	103.7	0.7
SINGLE 974	: 60114 ELM CRK3 - 60151 MNTCELO3 CKT: 1	323.0	321.2	318.0	318.0	104.0	103.3	0.7
SINGLE 28	: 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1	321.5	319.7	318.0	318.0	103.8	103.1	0.7
SINGLE 1175	: 60208 EDINA 7 - 60263 EDEN PR7 CKT: 1	320.8	319.3	318.0	318.0	103.6	102.9	0.7
SINGLE 1176	: 60208 EDINA 7 - 60280 NINE MI7 CKT: 1	321.4	319.6	318.0	318.0	103.6	102.9	0.7
SINGLE 1014	: 60133 SHEYNNE4 - 66435 FARGO 4 CKT: 1	321.0	319.5	318.0	318.0	103.5	102.8	0.7
SINGLE 1113	: 60186 AS KING3 - 60199 CHIS CO3 CKT: 1	320.9	319.3	318.0	318.0	103.5	102.9	0.6
SINGLE 1131	: 60193 BLUE LK7 - 61477 BLL TR6Y CKT: 6	320.3	318.7	318.0	318.0	103.3	102.7	0.6
SINGLE 1144	: 60199 CHIS CO3 - 60221 KOLMNLK3 CKT: 1	320.3	318.7	318.0	318.0	103.3	102.7	0.6
SINGLE 985	: 60119 LKYNKTN7 - 60279 BUFFRID7 CKT: 1	321.7	319.9	318.0	318.0	103.3	102.6	0.7
SINGLE 1130	: 60193 BLUE LK7 - 61476 BLL TR5Y CKT: 5	320.2	318.6	318.0	318.0	103.3	102.7	0.6
SINGLE 1196	: 60217 INVRHLS3 - 60218 INVRHLS7 CKT: 1	320.1	318.5	318.0	318.0	103.3	102.6	0.7
SINGLE 1039	: 60144 DGLASCO7 - 63222 ALEXAND7 CKT: 1	319.9	318.4	318.0	318.0	103.2	102.5	0.7
SINGLE 46	: 34015 LIME CK5 - 34016 EMERY 5 CKT: 1	319.6	318.0	318.0	318.0	103.1	102.4	0.7
SINGLE 1129	: 60193 BLUE LK7 - 60215 HYLNDLK7 CKT: 1	319.4	317.9	318.0	318.0	103.1	102.4	0.7
SINGLE 942	: 60100 FORBECA2 - 60101 FORBES 2 CKT: 1	319.9	317.9	318.0	318.0	103.0	102.2	0.8
SINGLE 1170	: 60206 CROWRVR7 - 62925 DICKNSN7 CKT: 1	318.5	316.9	318.0	318.0	102.9	102.4	0.5
SINGLE 1040	: 60145 FRANKLN7 - 60728 FRANKLN8 CKT: 1	319.3	317.5	318.0	318.0	102.9	102.2	0.7
SINGLE 1041	: 60145 FRANKLN7 - 60728 FRANKLN8 CKT: 2	319.3	317.5	318.0	318.0	102.9	102.2	0.7
SINGLE 975	: 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1	319.7	317.9	318.0	318.0	102.9	102.2	0.7
SINGLE 1047	: 60147 MINVALY4 - 66550 GRANITF4 CKT: 1	319.9	318.2	318.0	318.0	102.8	102.2	0.6
SINGLE 964	: 60110 WILMART7 - 60194 CARVRCO7 CKT: 1	318.7	317.3	318.0	318.0	102.8	102.2	0.6
SINGLE 1076	: 60159 STCTPW 7 - 60162 WAKEFLD7 CKT: 1	319.4	317.8	318.0	318.0	102.8	102.2	0.6
SINGLE 1046	: 60147 MINVALY4 - 60148 MINVALY7 CKT: 1	320.0	318.2	318.0	318.0	102.8	102.2	0.6
SINGLE 983	: 60119 LKYNKTN7 - 60171 LYON CO7 CKT: 1	319.7	317.9	318.0	318.0	102.7	102.0	0.7
SINGLE 992	: 60122 LAWRENC7 - 60834 LAWRENC8 CKT: 1	318.3	316.7	318.0	318.0	102.6	101.9	0.7
SINGLE 1142	: 60197 CHIS CO2 - 61493 CHIS D1Y CKT: 1	318.0	316.4	318.0	318.0	102.5	101.8	0.7
SINGLE 1179	: 60209 ELLOTPK7 - 60246 SO TOWN7 CKT: 1	318.2	316.5	318.0	318.0	102.5	101.9	0.6
SINGLE 42	: 34014 ADAMS 5 - 34015 LIME CK5 CKT: 1	318.0	316.4	318.0	318.0	102.5	101.8	0.7
SINGLE 1223	: 60234 PARKERS7 - 60259 BASCRK 7 CKT: 1	318.1	.....	318.0	.....	102.5	.....	*NEW*
SINGLE 1143	: 60197 CHIS CO2 - 61494 CHIS D2Y CKT: 1	318.0	316.4	318.0	318.0	102.4	101.8	0.6
SINGLE 3	: 6010 ELLSBRO - 60119 LKYNKTN7 CKT: 1	319.0	317.2	318.0	318.0	102.4	101.7	0.7
SINGLE 1145	: 60199 CHIS CO3 - 61493 CHIS D1Y CKT: 1	318.0	316.4	318.0	318.0	102.4	101.8	0.6
SINGLE 1146	: 60199 CHIS CO3 - 61494 CHIS D2Y CKT: 1	318.0	316.4	318.0	318.0	102.4	101.8	0.6
SINGLE 4	: 6010 ELLSBRO - 60362 CHANRMB7 CKT: 1	319.0	317.2	318.0	318.0	102.4	101.7	0.7
SINGLE 1128	: 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1	317.8	316.1	318.0	318.0	102.4	101.8	0.6
SINGLE 5	: 6012 G253INT - 34003 MAGNLIA5 CKT: 1	317.9	316.3	318.0	318.0	102.4	101.8	0.6
SINGLE 1059	: 60151 MNTCELO3 - 60160 SHERCO 3 CKT: 1	318.1	316.3	318.0	318.0	102.4	101.8	0.6
SINGLE 984	: 60119 LKYNKTN7 - 60171 LYON CO7 CKT: C	319.3	316.7	318.0	318.0	102.4	101.9	0.5
SINGLE 1213	: 60227 MEDLAKE7 - 60259 BASCRK 7 CKT: 1	318.0	316.2	318.0	318.0	102.4	101.8	0.6
SINGLE 1221	: 60233 PARKERS3 - 61489 PKLMID2Y CKT: 1	317.9	.....	318.0	.....	102.4	.....	*NEW*
SINGLE 1222	: 60233 PARKERS3 - 61490 PKLMID1Y CKT: 1	317.9	.....	318.0	.....	102.4	.....	*NEW*
SINGLE 109	: 34047 ANTA TP5 - 66561 DENISON5 CKT: 1	317.9	316.2	318.0	318.0	102.4	101.8	0.6
SINGLE 1224	: 60234 PARKERS7 - 60346 CEDARLK7 CKT: P	317.9	.....	318.0	.....	102.4	.....	*NEW*
SINGLE 1225	: 60234 PARKERS7 - 61489 PKLMID2Y CKT: 1	317.9	.....	318.0	.....	102.4	.....	*NEW*
SINGLE 1192	: 60214 HIBRDGE7 - 60239 ROGRSLK7 CKT: 1	317.9	316.1	318.0	318.0	102.3	101.7	0.6

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SINGLE 1060 : 60152 MNTCELO4 - 63043 ELK RIV4 CKT: 1   317.8   316.0   318.0   318.0   102.3   101.6     0.7
SINGLE 1198 : 60218 INVRHLS7 - 60220 INVRGRV7 CKT: 1   317.7   316.0   318.0   318.0   102.3   101.7     0.6
SINGLE 1077 : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1   317.7   315.9   318.0   318.0   102.3   101.6     0.7
SINGLE 1153 : 60202 COON CK3 - 60272 MPLEGV23 CKT: 1   317.7   315.9   318.0   318.0   102.3   101.6     0.7
SINGLE 1078 : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1   317.7   315.9   318.0   318.0   102.3   101.6     0.7
SINGLE 10   : 34003 MAGNLIA5 - 34004 ELK    5 CKT: 1   317.7   315.9   318.0   318.0   102.3   101.6     0.7
SINGLE 1115 : 60186 AS KING3 - 60236 REDROCK3 CKT: 1   317.8   316.0   318.0   318.0   102.3   101.7     0.6
SINGLE 163  : 34079 TRAER  5 - 34087 DYSART 5 CKT: 1   317.7   315.9   318.0   318.0   102.3   101.6     0.7
SINGLE 1158 : 60202 COON CK3 - 63031 BUNKER 3 CKT: 1   317.7   315.9   318.0   318.0   102.2   101.6     0.6
BASE CASE   : **       BASE CASE      **              316.6   314.8   318.0   318.0   101.9   101.2     0.7
SINGLE 994  : 60123 PIPESTN7 - 60125 PATHFDR7 CKT: 1   315.2   313.4   318.0   318.0   101.8   101.1     0.7
SINGLE 1000 : 60125 PATHFDR7 - 60129 SPLT RK7 CKT: 1   315.2   313.4   318.0   318.0   101.8   101.1     0.7
SINGLE 1075 : 60158 STCLTP 7 - 60166 SALIDA 7 CKT: 1   315.4   313.8   318.0   318.0   101.6   101.1     0.5
SINGLE 1057 : 60151 MNTCELO3 - 60152 MNTCELO4 CKT: 1   315.4   313.6   318.0   318.0   101.6   100.9     0.7
SINGLE 1015 : 60133 SHEYNNE4 - 66754 MAPLE R4 CKT: 1   315.6   313.8   318.0   318.0   101.6   100.9     0.7
SINGLE 970  : 60112 FTRIDLY7 - 60145 FRANKLN7 CKT: 1   314.6   313.0   318.0   318.0   101.6   100.9     0.7
SINGLE 955  : 60107 W FARIB7 - 61952 S FARIB5 CKT: 1   315.4   313.7   318.0   318.0   101.6   100.9     0.7
SINGLE 247  : 34137 TRIBOJI5 - 66563 SPENCER5 CKT: 1   315.6   313.6   318.0   318.0   101.6   100.8     0.8
SINGLE 1    :  6001 YANKEE 7 - 60279 BUFFRID7 CKT: 1   315.2   313.5   318.0   318.0   101.5   100.9     0.6
SINGLE 1062 : 60153 MNTCELO7 - 60166 SALIDA 7 CKT: 1   315.1   313.3   318.0   318.0   101.5   100.9     0.6
SINGLE 1118 : 60187 AS KING7 - 60325 WILOWRV7 CKT: 1   315.3   313.6   318.0   318.0   101.5   100.8     0.7
SINGLE 1122 : 60190 BLK DOG7 - 60242 SAVAGE 7 CKT: 1   315.2   313.4   318.0   318.0   101.4   100.8     0.6
SINGLE 1082 : 60163 WST CLD7 - 60732 WST CLD8 CKT: 1   314.8   313.1   318.0   318.0   101.4   100.7     0.7
SINGLE 961  : 60109 WILMART5 - 60120 BLUEETA5 CKT: 1   315.1   313.3   318.0   318.0   101.4   100.7     0.7
SINGLE 31   : 34009 WINBAGO5 - 60120 BLUEETA5 CKT: 1   315.1   313.3   318.0   318.0   101.4   100.7     0.7
SINGLE 960  : 60109 WILMART5 - 60110 WILMART7 CKT: 1   315.1   313.3   318.0   318.0   101.4   100.7     0.7
SINGLE 1123 : 60190 BLK DOG7 - 60258 WILSON 7 CKT: 1   313.4   311.6   318.0   318.0   100.8   100.1     0.7
SINGLE 1124 : 60190 BLK DOG7 - 60258 WILSON 7 CKT: 3   313.3   311.6   318.0   318.0   100.8   100.1     0.7
SINGLE 1034 : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1   312.4   310.7   318.0   318.0   100.7   100.1     0.6
SINGLE 1157 : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1   312.6   311.0   318.0   318.0   100.7   100.0     0.7
SINGLE 1050 : 60148 MINVALY7 - 60357 MAYNARD7 CKT: 1   312.9   311.5   318.0   318.0   100.6   100.0     0.6
SINGLE 940  : 60015 ANSON CG - 60129 SPLT RK7 CKT: 1   311.1   309.2   318.0   318.0    99.9    99.2     0.7
SINGLE 941  : 60015 ANSON CG - 61475 ANS TR2Y CKT: 2   311.1   309.2   318.0   318.0    99.9    99.2     0.7
SINGLE 1003 : 60126 SPLT RK3 - 60286 NOBLES 3 CKT: C   308.7   306.9   318.0   318.0    99.2    98.5     0.7
SINGLE 1085 : 60170 MARSHAL7 - 60171 LYON CO7 CKT: 1   305.7   304.3   318.0   318.0    98.7    98.1     0.6
SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   302.2   300.2   318.0   318.0    96.6    95.9     0.7
SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1   300.1   298.4   318.0   318.0    96.0    95.3     0.7
SINGLE 6    :  6012 G253INT  - 60128 SPLT RK5 CKT: 1   .....   315.9   .....   318.0   .....   101.6  *ELIM*
SINGLE 53   : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1   .....   308.2   .....   318.0   .....    98.8  *ELIM*
SINGLE 1004 : 60128 SPLT RK5 - 60129 SPLT RK7 CKT: 1   .....   315.9   .....   318.0   .....   101.6  *ELIM*
SINGLE 1117 : 60188 RIVERWD7 - 60200 BLK DG27 CKT: 1   .....   313.8   .....   318.0   .....   100.8  *ELIM*
SINGLE 1195 : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1   .....   313.8   .....   318.0   .....   100.9  *ELIM*
*** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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36) 60160 SHERCO 3 - 60002 SHERC33G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 2917 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1   892.0   891.8   950.0   950.0    93.9    93.9     0.0
009   2     : ** MULTIPLE CONTINGENCY **               889.8   889.7   950.0   950.0    93.7    93.6     0.1
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1
            : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
670     1   : ** MULTIPLE CONTINGENCY **               889.9   889.6   950.0   950.0    93.7    93.6     0.1
            : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
            : 63031 BUNKER 3 - 60160 SHERCO 3 CKT: 1
            : 63031 BUNKER 3 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61487 CNCMID2Y CKT: 1
            : 61487 CNCMID2Y - 60203 COON CK7 CKT: 1
            : 61487 CNCMID2Y - 60655 CNCTER29 CKT: 1
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             : 63046 BUNKER 4 - 63031 BUNKER 3 CKT: 1
009   1      : ** MULTIPLE CONTINGENCY **                889.8   889.7   950.0   950.0    93.7    93.7     0.0
             : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
             : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
             : 60151 MNTCELO3 - 60160 SHERCO 3 CKT: 1
             : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
             : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
             : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SHC-CNC/ECK3: ** MULTIPLE CONTINGENCY **                889.4   889.3   950.0   950.0    93.6    93.6     0.0
             : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
             : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1
022       1  : ** MULTIPLE CONTINGENCY **                889.4   889.1   950.0   950.0    93.6    93.6     0.0
             : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
             : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
             : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
             : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
             : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
             : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
             : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
             : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
             : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
             : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
022       3  : ** MULTIPLE CONTINGENCY **                889.4   889.1   950.0   950.0    93.6    93.6     0.0
             : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
             : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
             : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
             : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
             : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
             : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
CNC-KOL/TER3: ** MULTIPLE CONTINGENCY **                889.5   889.2   950.0   950.0    93.6    93.6     0.0
             : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
             : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
SHC-CNC/BUL3: ** MULTIPLE CONTINGENCY **                888.9   888.7   950.0   950.0    93.6    93.5     0.1
             : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
             : 60160 SHERCO 3 - 63031 BUNKER 3 CKT: 1
SINGLE 1079  : 60160 SHERCO 3 - 63031 BUNKER 3 CKT: 1   887.0   886.8   950.0   950.0    93.4    93.3     0.1
009   4      : ** MULTIPLE CONTINGENCY **                887.6   887.4   950.0   950.0    93.4    93.4     0.0
             : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
             : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
             : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
             : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
             : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
             : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
009   6      : ** MULTIPLE CONTINGENCY **                887.5   887.3   950.0   950.0    93.4    93.4     0.0
             : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
             : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
             : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
             : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
             : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
009   7      : ** MULTIPLE CONTINGENCY **                886.9   886.8   950.0   950.0    93.4    93.3     0.1
             : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
             : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
             : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
             : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
             : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
             : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 1077  : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1   887.1   886.9   950.0   950.0    93.4    93.4     0.0
CNC-SHC/BUL3: ** MULTIPLE CONTINGENCY **                887.7   887.5   950.0   950.0    93.4    93.4     0.0
             : 60202 COON CK3 - 60160 SHERCO 3 CKT: 1
             : 60202 COON CK3 - 63031 BUNKER 3 CKT: 1
022       5  : ** MULTIPLE CONTINGENCY **                887.3   887.2   950.0   950.0    93.4    93.4     0.0
             : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
             : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
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              : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
              : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
              : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
              : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
              : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
              : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
SINGLE 1078 : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1   887.0   886.8   950.0   950.0    93.4    93.3     0.1
670     2   : ** MULTIPLE CONTINGENCY **               887.4   887.2   950.0   950.0    93.4    93.4     0.0
              : 63031 BUNKER 3 - 60160 SHERCO 3 CKT: 1
              : 63031 BUNKER 3 - 60202 COON CK3 CKT: 1
              : 63046 BUNKER 4 - 63031 BUNKER 3 CKT: 1
670     3   : ** MULTIPLE CONTINGENCY **               887.5   887.3   950.0   950.0    93.4    93.4     0.0
              : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
              : 60202 COON CK3 - 61487 CNCMID2Y CKT: 1
              : 61487 CNCMID2Y - 60203 COON CK7 CKT: 1
              : 61487 CNCMID2Y - 60655 CNCTER29 CKT: 1
705       1 : ** MULTIPLE CONTINGENCY **               887.0   886.8   950.0   950.0    93.4    93.3     0.1
              : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1
              : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
              : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 1
BLL-EDP/PKL3: ** MULTIPLE CONTINGENCY **               886.8   886.6   950.0   950.0    93.4    93.3     0.1
              : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
              : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1
SINGLE 1059 : 60151 MNTCELO3 - 60160 SHERCO 3 CKT: 1   886.3   886.2   950.0   950.0    93.3    93.3     0.0
022      10 : ** MULTIPLE CONTINGENCY **               886.7   886.5   950.0   950.0    93.3    93.3     0.0
              : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
              : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
              : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
              : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
BLL-PRI/IVH3: ** MULTIPLE CONTINGENCY **               886.8   886.6   950.0   950.0    93.3    93.3     0.0
              : 60192 BLUE LK3 - 60105 PR ISLD3 CKT: 1
              : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
KOL-CNC/TER3: ** MULTIPLE CONTINGENCY **               886.4   886.1   950.0   950.0    93.3    93.3     0.0
              : 60221 KOLMNLK3 - 60202 COON CK3 CKT: 1
              : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
009   8     : ** MULTIPLE CONTINGENCY **               886.8   886.6   950.0   950.0    93.3    93.3     0.0
              : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
              : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
              : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
              : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
              : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 1152 : 60202 COON CK3 - 60251 TERMINL3 CKT: 1   886.6   886.5   950.0   950.0    93.3    93.3     0.0
CNC-DKN/SHC3: ** MULTIPLE CONTINGENCY **               886.3   886.2   950.0   950.0    93.3    93.3     0.0
              : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1
              : 60202 COON CK3 - 60272 MPLEGV23 CKT: 1
BASE CASE   : **       BASE CASE      **              885.2   885.1   950.0   950.0    93.2    93.2     0.0
SINGLE 942  : 60100 FORBECA2 - 60101 FORBES 2 CKT: 1   884.2   884.0   950.0   950.0    93.1    93.1     0.0
SINGLE 3449 : 63314 BIGSTON4 - 63315 BIGSTN1G CKT: 1   884.2   .....   950.0   .....    93.1   .....   *NEW*
ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **               884.0   883.9   950.0   950.0    93.1    93.0     0.1
              : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **               883.8   .....   950.0   .....    93.0   .....   *NEW*
              : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
              : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
SINGLE 1124 : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1   .....   886.2   .....   950.0   .....    93.3  *ELIM*
SINGLE 2956 : 60240 RIVRSID7 - 60008 RIVRS78G CKT: 1   .....   886.2   .....   950.0   .....    93.3  *ELIM*

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 37) 60173 ROSEAUN2 - 60174 ROSEAUS2 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 21	: 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1	1879.3	1873.3	1732.0	1732.0	101.9	101.7	0.2
SINGLE 32	: 34009 WINBAGO5 - 61932 RUTLAND5 CKT: 1	1879.4	1874.3	1732.0	1732.0	101.9	101.8	0.1
SINGLE 29	: 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1	1876.4	1857.0	1732.0	1732.0	101.7	101.6	0.1
SINGLE 28	: 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1	1877.5	1872.5	1732.0	1732.0	101.7	101.6	0.1
SINGLE 46	: 34015 LIME CK5 - 34016 EMERY 5 CKT: 1	1876.2	1856.7	1732.0	1732.0	101.7	101.6	0.1
SINGLE 42	: 34014 ADAMS 5 - 34015 LIME CK5 CKT: 1	1874.8	1855.5	1732.0	1732.0	101.6	101.5	0.1
SINGLE 33	: 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1	1875.3	1855.8	1732.0	1732.0	101.6	101.5	0.1
SINGLE 35	: 34010 HAYWARD5 - 34015 LIME CK5 CKT: 1	1873.0	1853.6	1732.0	1732.0	101.5	101.4	0.1
SINGLE 6	: 6012 G253INT - 60128 SPLT RK5 CKT: 1	1873.2	1868.2	1732.0	1732.0	101.5	101.4	0.1
SINGLE 49	: 34016 EMERY 5 - 34017 CGORDO_5 CKT: 1	1873.4	1868.2	1732.0	1732.0	101.5	101.4	0.1
SINGLE 107	: 34047 ANTA TP5 - 34048 ANITA 5 CKT: 1	1855.3	1853.2	1732.0	1732.0	101.5	101.3	0.2
SINGLE 151	: 34068 M-TOWN 5 - 34079 TRAER 5 CKT: 1	1873.6	1868.6	1732.0	1732.0	101.5	101.4	0.1
SINGLE 163	: 34079 TRAER 5 - 34087 DYSART 5 CKT: 1	1873.8	1868.8	1732.0	1732.0	101.5	101.4	0.1
SINGLE 173	: 34084 PARNEL 5 - 34185 POWESHK5 CKT: 1	1873.1	1868.1	1732.0	1732.0	101.5	101.4	0.1
SINGLE 244	: 34136 TRIBOJI8 - 34906 FLYCLD 8 CKT: 1	1855.4	.....	1732.0	.....	101.5	.....	*NEW*
SINGLE 47	: 34015 LIME CK5 - 34379 LMCK W 8 CKT: 1	1854.7	.....	1732.0	.....	101.4	.....	*NEW*
BASE CASE	: ** BASE CASE **	1872.0	1867.0	1732.0	1732.0	101.4	101.3	0.1
SINGLE 58	: 34019 HAZLTON5 - 34440 HAZLTNN8 CKT: 1	1854.8	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 60	: 34020 HAZL S 5 - 34135 DUNDEE 5 CKT: 1	1870.9	1851.6	1732.0	1732.0	101.4	101.3	0.1
SINGLE 65	: 34023 LANSING8 - 34443 HARPTAP8 CKT: 1	1854.5	1852.4	1732.0	1732.0	101.4	101.3	0.1
SINGLE 68	: 34027 CNTRGRV5 - 34508 JULIAN 5 CKT: 1	1854.8	1852.7	1732.0	1732.0	101.4	101.3	0.1
SINGLE 71	: 34028 LORE 5 - 34129 LIBERTY5 CKT: 1	1854.4	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 77	: 34030 SALEM 5 - 34126 MQOKETA5 CKT: 1	1855.0	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 90	: 34038 BVR CH 5 - 34041 BEVCHN28 CKT: 2	1854.8	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 103	: 34043 SAVANNA5 - 34046 YORK 5 CKT: 1	1854.8	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 106	: 34044 ALBANY 5 - 34046 YORK 5 CKT: 1	1854.9	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 30	: 34009 WINBAGO5 - 34257 WBGOJ N8 CKT: 1	1854.9	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 40	: 34012 FOXLAKE8 - 62359 FOXLKTP8 CKT: 1	1854.7	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 111	: 34048 ANITA 5 - 34524 ANITA Y CKT: 1	1854.8	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 113	: 34049 SCRANTN5 - 34054 GR JCT 5 CKT: 1	1855.0	1852.9	1732.0	1732.0	101.4	101.3	0.1
SINGLE 115	: 34051 TOLEDO 7 - 34083 BL.PLN.7 CKT: 1	1855.2	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 123	: 34055 CARBIDE8 - 34526 CARBIDEY CKT: 1	1854.8	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 129	: 34056 CARBIDE5 - 34526 CARBIDEY CKT: 1	1854.8	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 132	: 34059 BOONE 7 - 34073 GR JCT 7 CKT: 1	1854.9	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 135	: 34060 WNTRST 5 - 66560 CRESTON5 CKT: 1	1855.0	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 136	: 34061 BNE JCT5 - 34062 BNE JCT8 CKT: 1	1854.7	1852.6	1732.0	1732.0	101.4	101.3	0.1
SINGLE 137	: 34061 BNE JCT5 - 34076 BNE JCT7 CKT: 2	1854.8	1852.7	1732.0	1732.0	101.4	101.3	0.1
SINGLE 141	: 34064 ANITA 8 - 34524 ANITA Y CKT: 1	1854.8	1852.8	1732.0	1732.0	101.4	101.3	0.1
SINGLE 142	: 34064 ANITA 8 - 34603 CASEY R CKT: 1	1854.8	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 150	: 34068 M-TOWN 5 - 34069 TIMBRCK5 CKT: 1	1854.6	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 31	: 34009 WINBAGO5 - 60120 BLUEETA5 CKT: 1	1870.9	1865.8	1732.0	1732.0	101.4	101.3	0.1
SINGLE 154	: 34070 NEVADAT7 - 34071 FERNALD7 CKT: 1	1854.9	1852.8	1732.0	1732.0	101.4	101.3	0.1
SINGLE 155	: 34072 FRNKLIN7 - 34077 IA FALS7 CKT: 1	1854.7	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 156	: 34072 FRNKLIN7 - 34571 FRNKLN_Y CKT: 1	1854.7	1852.6	1732.0	1732.0	101.4	101.3	0.1
SINGLE 159	: 34074 WELSBRG7 - 34530 WELSBRGY CKT: 1	1854.9	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 44	: 34014 ADAMS 5 - 60102 ADAMS 3 CKT: 1	1854.7	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 45	: 34014 ADAMS 5 - 60102 ADAMS 3 CKT: P	1854.9	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 174	: 34085 BLRSTWN7 - 34086 WILMSBG7 CKT: 1	1854.5	1852.4	1732.0	1732.0	101.4	101.3	0.1
SINGLE 175	: 34085 BLRSTWN7 - 34099 PRAR CK7 CKT: 1	1855.1	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 181	: 34093 ARNOLD 3 - 34534 ARNOLD Y CKT: 1	1854.3	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 182	: 34095 STON PT7 - 34097 6 ST 7 CKT: 1	1854.8	1852.7	1732.0	1732.0	101.4	101.3	0.1
SINGLE 189	: 34101 HIAWATA7 - 34103 MARION 7 CKT: 1	1854.7	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 191	: 34103 MARION 7 - 34131 COGGON 7 CKT: 1	1854.9	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 200	: 34109 BERTRAM5 - 34537 BERTRAMY CKT: 1	1854.7	1852.6	1732.0	1732.0	101.4	101.3	0.1
SINGLE 204	: 34113 FAIR 8 - 34711 MUSCAT T CKT: 1	1854.8	1852.7	1732.0	1732.0	101.4	101.3	0.1
SINGLE 209	: 34114 MUSSWTH8 - 34717 SALS TAP CKT: 1	1854.7	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 214	: 34117 SUTLIFF7 - 34120 CALAMUS7 CKT: 1	1854.6	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 227	: 34126 MQOKETA5 - 34127 WYOMING5 CKT: 1	1854.7	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 228	: 34128 LIBERTY8 - 34360 DYR E 8 CKT: 1	1854.8	1852.7	1732.0	1732.0	101.4	101.3	0.1
SINGLE 9	: 6450 PRIMGHAR - 66566 SIOUXCY5 CKT: 1	1853.9	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 245	: 34137 TRIBOJI5 - 34544 TRIBOJ1Y CKT: 1	1854.8	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 250	: 34138 DUNDEE 8 - 34521 GRELYTP8 CKT: 1	1854.7	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 253	: 34139 HANCOCK5 - 34546 HANCOCKY CKT: 1	1854.7	.....	1732.0	.....	101.4	.....	*NEW*

SINGLE 270	: 34172 EIC 5	- 34547 EIC Y	CKT: 1	1854.8	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 274	: 34174 EICTAP 5	- 34190 BRDGPRT5	CKT: 1	1854.8	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 283	: 34178 HENRYCO5	- 34183 JEFF 5	CKT: 1	1855.0	1852.9	1732.0	1732.0	101.4	101.3	0.1
SINGLE 286	: 34179 JASPER 5	- 34549 JASPER Y	CKT: 1	1854.8	1852.7	1732.0	1732.0	101.4	101.3	0.1
SINGLE 287	: 34180 DENMARK5	- 34181 BRLGTN 5	CKT: 1	1854.8	1852.7	1732.0	1732.0	101.4	101.3	0.1
SINGLE 288	: 34180 DENMARK5	- 34181 BRLGTN 5	CKT: 2	1854.8	1852.7	1732.0	1732.0	101.4	101.3	0.1
SINGLE 289	: 34180 DENMARK5	- 34186 NEWPORT5	CKT: 1	1855.1	1853.0	1732.0	1732.0	101.4	101.3	0.1
SINGLE 294	: 34182 WAPELLO5	- 34189 OTTUMWA5	CKT: 1	1854.8	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 304	: 34187 AGENCY 8	- 34778 N BURL 8	CKT: 1	1854.8	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 313	: 34191 REASNOR5	- 34211 NEWTON 5	CKT: 1	1854.7	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 318	: 34194 JEFF 8	- 34796 NW FFLD	CKT: 1	1854.8	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 321	: 34195 BRLGTN18	- 34550 BRLGTN1Y	CKT: 1	1854.8	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 326	: 34200 CNTRVIL8	- 34624 NUMATAP8	CKT: 1	1854.8	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 331	: 34203 GRINNEL8	- 34608 SGRINNL8	CKT: 1	1854.8	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 332	: 34204 JASPER 8	- 34549 JASPER Y	CKT: 1	1854.8	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 333	: 34204 JASPER 8	- 34574 AURORA 8	CKT: 1	1854.8	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 336	: 34205 BRDGPRT8	- 34618 TRAILJT8	CKT: 1	1854.8	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 341	: 34206 WAPELLO8	- 34616 S OTTUM8	CKT: 1	1854.8	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 343	: 34207 WASHTON8	- 34788 S CRNE T	CKT: 1	1854.8	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 347	: 34208 POWESHK8	- 34555 POWESHKY	CKT: 1	1854.8	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 348	: 34208 POWESHK8	- 34610 SEARSBR8	CKT: 1	1854.8	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 349	: 34210 NEWPORT8	- 34556 NEWPORTY	CKT: 1	1854.8	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 352	: 34210 NEWPORT8	- 34772 WAPELLO	CKT: 1	1854.8	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 360	: 34217 WRTHNGT8	- 34218 WORTHMN8	CKT: 1	1854.9	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 374	: 34226 STORDEN8	- 62801 SSTORDN8	CKT: 1	1855.1	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 376	: 34227 LAMBRTN8	- 62800 NSTORDN8	CKT: 1	1855.0	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 380	: 34230 COMFREY8	- 34240 DOTSON 8	CKT: 1	1854.8	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 383	: 34231 MT LAKE8	- 34281 MTLAKET8	CKT: 1	1854.8	.....	1732.0	.....	101.4	.....	*NEW*
SINGLE 62	: 34021 LANSINGW	- 34022 LANSING5	CKT: 1	1869.7	1864.7	1732.0	1732.0	101.3	101.2	0.1
SINGLE 247	: 34137 TRIBOJI5	- 66563 SPENCER5	CKT: 1	1870.5	1865.3	1732.0	1732.0	101.3	101.2	0.1
SINGLE 56	: 34018 HAZLTON3	- 60102 ADAMS 3	CKT: 1	1851.0	1846.2	1732.0	1732.0	100.2	100.1	0.1
SINGLE 1	: 6001 YANKEE 7	- 60279 BUFFRID7	CKT: 1	.....	1852.2	.....	1732.0	.....	101.3	*ELIM*
SINGLE 9	: 34003 MAGNLIA5	- 34215 MAGNLIA8	CKT: 1	.....	1852.8	.....	1732.0	.....	101.3	*ELIM*
SINGLE 11	: 34004 ELK 5	- 34223 ELK 8	CKT: 1	.....	1852.7	.....	1732.0	.....	101.3	*ELIM*
SINGLE 14	: 34005 HRN LK 5	- 34225 HERONLK8	CKT: 1	.....	1852.7	.....	1732.0	.....	101.3	*ELIM*
SINGLE 22	: 34007 LAKEFLD5	- 34137 TRIBOJI5	CKT: 1	.....	1865.7	.....	1732.0	.....	101.2	*ELIM*
SINGLE 23	: 34007 LAKEFLD5	- 34241 LKFLD698	CKT: 1	.....	1852.9	.....	1732.0	.....	101.3	*ELIM*
SINGLE 35	: 34010 HAYWARD5	- 34294 HAYWD#28	CKT: 1	.....	1852.7	.....	1732.0	.....	101.3	*ELIM*
SINGLE 51	: 34018 HAZLTON3	- 34019 HAZLTON5	CKT: 1	.....	1852.5	.....	1732.0	.....	101.3	*ELIM*
SINGLE 52	: 34018 HAZLTON3	- 34020 HAZL S 5	CKT: 2	.....	1852.6	.....	1732.0	.....	101.3	*ELIM*
SINGLE 53	: 34018 HAZLTON3	- 34093 ARNOLD 3	CKT: 1	.....	1858.6	.....	1732.0	.....	100.8	*ELIM*
SINGLE 55	: 34019 HAZLTON5	- 34020 HAZL S 5	CKT: 1	.....	1852.5	.....	1732.0	.....	101.3	*ELIM*
SINGLE 57	: 34019 HAZLTON5	- 61930 WINDSOR5	CKT: 1	.....	1852.9	.....	1732.0	.....	101.3	*ELIM*
SINGLE 73	: 34029 SALEM 3	- 34036 ROCK CK3	CKT: 1	.....	1853.1	.....	1732.0	.....	101.3	*ELIM*
SINGLE 74	: 34030 SALEM 5	- 34031 SO.GVW.5	CKT: 1	.....	1853.0	.....	1732.0	.....	101.3	*ELIM*
SINGLE 76	: 34030 SALEM 5	- 34508 JULIAN 5	CKT: 1	.....	1852.7	.....	1732.0	.....	101.3	*ELIM*
SINGLE 78	: 34032 8TH ST.5	- 34473 DBQ 8TH8	CKT: 1	.....	1852.7	.....	1732.0	.....	101.3	*ELIM*
SINGLE 82	: 34035 ROCKCKW5	- 34343 ROCKCKW8	CKT: 1	.....	1852.3	.....	1732.0	.....	101.3	*ELIM*
SINGLE 84	: 34036 ROCK CK3	- 34037 ROCK CK5	CKT: 1	.....	1853.0	.....	1732.0	.....	101.3	*ELIM*
SINGLE 87	: 34038 BVR CH 5	- 34041 BEVCHN28	CKT: 1	.....	1852.7	.....	1732.0	.....	101.3	*ELIM*
SINGLE 95	: 34040 BEVCHN18	- 34336 DUPONT 8	CKT: 1	.....	1852.6	.....	1732.0	.....	101.3	*ELIM*
SINGLE 103	: 34044 ALBANY 5	- 34045 ALBANY 6	CKT: 1	.....	1852.5	.....	1732.0	.....	101.3	*ELIM*
SINGLE 106	: 34047 ANTA TP5	- 66560 CRESTON5	CKT: 1	.....	1852.9	.....	1732.0	.....	101.3	*ELIM*
SINGLE 108	: 34048 ANITA 5	- 34050 GU CTR 5	CKT: 1	.....	1853.1	.....	1732.0	.....	101.3	*ELIM*
SINGLE 119	: 34054 GR JCT 5	- 34525 GR JCT Y	CKT: 1	.....	1852.7	.....	1732.0	.....	101.3	*ELIM*
SINGLE 123	: 34055 CARBIDE8	- 34568 COMMJCT8	CKT: 1	.....	1852.7	.....	1732.0	.....	101.3	*ELIM*
SINGLE 124	: 34055 CARBIDE8	- 34880 MESS TAP	CKT: 1	.....	1852.7	.....	1732.0	.....	101.3	*ELIM*
SINGLE 131	: 34059 BOONE 7	- 34076 BNE JCT7	CKT: 1	.....	1852.5	.....	1732.0	.....	101.3	*ELIM*
SINGLE 143	: 34066 M-TOWN 7	- 34085 BLRSTWN7	CKT: 1	.....	1853.2	.....	1732.0	.....	101.4	*ELIM*
SINGLE 151	: 34068 M-TOWN 5	- 34528 M-TOWN Y	CKT: 1	.....	1852.6	.....	1732.0	.....	101.3	*ELIM*
SINGLE 160	: 34078 LEE 8	- 34879 BLUFF	CKT: 1	.....	1852.7	.....	1732.0	.....	101.3	*ELIM*
SINGLE 168	: 34081 VIELE 5	- 34180 DENMARK5	CKT: 1	.....	1852.6	.....	1732.0	.....	101.3	*ELIM*
SINGLE 170	: 34083 BL.PLN.7	- 34095 STON PT7	CKT: 1	.....	1852.9	.....	1732.0	.....	101.3	*ELIM*

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SINGLE 182  : 34097 6 ST   7 - 34101 HIAWATA7 CKT: 1   .....  1852.7   .....  1732.0   .....   101.3  *ELIM*
SINGLE 184  : 34099 PRAR CK7 - 34103 MARION 7 CKT: 1   .....  1852.7   .....  1732.0   .....   101.3  *ELIM*
SINGLE 191  : 34105 HIAWATA5 - 34535 HIAWATAY CKT: 1   .....  1852.6   .....  1732.0   .....   101.3  *ELIM*
SINGLE 193  : 34106 PCI    5 - 34109 BERTRAM5 CKT: 1   .....  1852.6   .....  1732.0   .....   101.3  *ELIM*
SINGLE 194  : 34106 PCI    5 - 34536 PCI    Y CKT: 1   .....  1852.8   .....  1732.0   .....   101.3  *ELIM*
SINGLE 200  : 34111 FAIRFAX5 - 34538 FAIRFAXY CKT: 1   .....  1852.7   .....  1732.0   .....   101.3  *ELIM*
SINGLE 208  : 34114 MUSSWTH8 - 34793 FRUITLAN CKT: 1   .....  1852.7   .....  1732.0   .....   101.3  *ELIM*
SINGLE 209  : 34114 MUSSWTH8 - 34798 MAGMET T CKT: 1   .....  1852.7   .....  1732.0   .....   101.3  *ELIM*
SINGLE 215  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1   .....  1852.6   .....  1732.0   .....   101.3  *ELIM*
SINGLE 216  : 34122 E CALMS5 - 34124 DEWITT 5 CKT: 1   .....  1852.6   .....  1732.0   .....   101.3  *ELIM*
SINGLE 220  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1   .....  1852.6   .....  1732.0   .....   101.3  *ELIM*
SINGLE 227  : 34128 LIBERTY8 - 34360 DYR E  8 CKT: 2   .....  1852.7   .....  1732.0   .....   101.3  *ELIM*
SINGLE 233  : 34129 LIBERTY5 - 34541 LIBERTYY CKT: 1   .....  1852.7   .....  1732.0   .....   101.3  *ELIM*
SINGLE 244  : 34137 TRIBOJI5 - 34545 TRIBOJ2Y CKT: 2   .....  1852.7   .....  1732.0   .....   101.3  *ELIM*
SINGLE 246  : 34138 DUNDEE 8 - 34489 AURORA 8 CKT: 1   .....  1852.7   .....  1732.0   .....   101.3  *ELIM*
SINGLE 247  : 34138 DUNDEE 8 - 34490 MASONVL8 CKT: 1   .....  1852.7   .....  1732.0   .....   101.3  *ELIM*
SINGLE 254  : 34149 FAIRFAX8 - 34749 KIRK JT  CKT: 1   .....  1852.7   .....  1732.0   .....   101.3  *ELIM*
SINGLE 259  : 34151 PCI    8 - 34536 PCI    Y CKT: 1   .....  1852.8   .....  1732.0   .....   101.3  *ELIM*
SINGLE 264  : 34171 EICTAP 8 - 34173 EIC    8 CKT: 1   .....  1852.7   .....  1732.0   .....   101.3  *ELIM*
SINGLE 265  : 34171 EICTAP 8 - 34209 BRDGPT 8 CKT: 1   .....  1852.7   .....  1732.0   .....   101.3  *ELIM*
SINGLE 269  : 34173 EIC    8 - 34198 CARGT5 8 CKT: 1   .....  1852.7   .....  1732.0   .....   101.3  *ELIM*
SINGLE 270  : 34173 EIC    8 - 34199 CARGT6 8 CKT: 1   .....  1852.6   .....  1732.0   .....   101.3  *ELIM*
SINGLE 278  : 34177 APANOSE8 - 34200 CNTRVIL8 CKT: 1   .....  1852.7   .....  1732.0   .....   101.3  *ELIM*
SINGLE 283  : 34179 JASPER 5 - 34211 NEWTON 5 CKT: 1   .....  1852.5   .....  1732.0   .....   101.3  *ELIM*
*** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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 38) 60173 ROSEAUN2 - 67564 DORSEY 2 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1  1934.7  1931.1  1732.0  1732.0   108.2   108.1     0.1
SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1  1932.8  1928.6  1732.0  1732.0   108.1   107.9     0.2
SINGLE 1001 : 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1  1909.9  1907.9  1732.0  1732.0   106.7   106.7     0.0
SINGLE 1008 : 60130 SPLTRTA3 - 66537 WHITE  3 CKT: 1  1909.9  1907.9  1732.0  1732.0   106.7   106.7     0.0
SINGLE 1013 : 60133 SHEYNNE4 - 63336 AUDUBON4 CKT: 1  1901.2  1898.8  1732.0  1732.0   106.2   106.1     0.1
SINGLE 20   : 34006 LAKEFLD3 - 60286 NOBLES 3 CKT: C  1891.9  1889.7  1732.0  1732.0   105.7   105.6     0.1
SINGLE 1120 : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C  1892.7  1890.0  1732.0  1732.0   105.7   105.6     0.1
SINGLE 1121 : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1  1892.9  1890.2  1732.0  1732.0   105.7   105.6     0.1
SINGLE 942  : 60100 FORBECA2 - 60101 FORBES 2 CKT: 1  1882.8  1879.7  1732.0  1732.0   105.6   105.4     0.2
SINGLE 21   : 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1  1879.9  1876.4  1732.0  1732.0   105.6   105.4     0.2
SINGLE 32   : 34009 WINBAGO5 - 61932 RUTLAND5 CKT: 1  1880.0  1877.4  1732.0  1732.0   105.6   105.4     0.2
SINGLE 1042 : 60145 FRANKLN7 - 61954 REDFLST7 CKT: P  1877.2  1874.6  1732.0  1732.0   105.4   105.3     0.1
SINGLE 1053 : 60148 MINVALY7 - 61954 REDFLST7 CKT: P  1877.7  1875.2  1732.0  1732.0   105.4   105.3     0.1
SINGLE 46   : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1  1876.7  1874.0  1732.0  1732.0   105.4   105.2     0.2
SINGLE 1068 : 60156 PYNSVIL7 - 60162 WAKEFLD7 CKT: C  1877.4  1874.9  1732.0  1732.0   105.4   105.3     0.1
SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1  1876.9  1874.3  1732.0  1732.0   105.4   105.2     0.2
SINGLE 28   : 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1  1878.0  1875.5  1732.0  1732.0   105.4   105.3     0.1
SINGLE 1039 : 60144 DGLASCO7 - 63222 ALEXAND7 CKT: 1  1878.0  1875.4  1732.0  1732.0   105.4   105.3     0.1
SINGLE 1126 : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1  1877.8  1875.3  1732.0  1732.0   105.4   105.3     0.1
SINGLE 1151 : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1  1877.4  1874.8  1732.0  1732.0   105.4   105.3     0.1
SINGLE 1152 : 60202 COON CK3 - 60251 TERMINL3 CKT: 1  1877.7  1875.1  1732.0  1732.0   105.4   105.3     0.1
SINGLE 1157 : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1  1878.1  1875.5  1732.0  1732.0   105.4   105.3     0.1
SINGLE 1077 : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1  1876.2  1873.7  1732.0  1732.0   105.3   105.2     0.1
SINGLE 1078 : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1  1876.2  1873.8  1732.0  1732.0   105.3   105.2     0.1
SINGLE 1079 : 60160 SHERCO 3 - 63031 BUNKER 3 CKT: 1  1876.1  1873.7  1732.0  1732.0   105.3   105.2     0.1
SINGLE 42   : 34014 ADAMS  5 - 34015 LIME CK5 CKT: 1  1875.3  1872.8  1732.0  1732.0   105.3   105.2     0.1
SINGLE 964  : 60110 WILMART7 - 60194 CARVRCO7 CKT: 1  1875.4  1872.9  1732.0  1732.0   105.3   105.2     0.1
SINGLE 952  : 60107 W FARIB7 - 60265 LOON TP7 CKT: C  1875.9  1873.4  1732.0  1732.0   105.3   105.2     0.1
SINGLE 1130 : 60193 BLUE LK7 - 61476 BLL TR5Y CKT: 5  1876.3  1873.7  1732.0  1732.0   105.3   105.2     0.1
SINGLE 1131 : 60193 BLUE LK7 - 61477 BLL TR6Y CKT: 6  1876.4  1873.8  1732.0  1732.0   105.3   105.2     0.1
SINGLE 1014 : 60133 SHEYNNE4 - 66435 FARGO  4 CKT: 1  1875.7  1873.1  1732.0  1732.0   105.3   105.2     0.1
SINGLE 33   : 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1  1875.8  1873.1  1732.0  1732.0   105.3   105.2     0.1
SINGLE 1153 : 60202 COON CK3 - 60272 MPLEGV23 CKT: 1  1876.2  1873.8  1732.0  1732.0   105.3   105.2     0.1
SINGLE 1076 : 60159 STCTPW 7 - 60162 WAKEFLD7 CKT: 1  1875.0  1872.6  1732.0  1732.0   105.3   105.1     0.2
```

SINGLE 1158	:	60202	COON CK3	-	63031	BUNKER 3	CKT: 1	1875.1	1872.6	1732.0	1732.0	105.3	105.1	0.2
SINGLE 6	:	6012	G253INT	-	60128	SPLT RK5	CKT: 1	1873.6	1871.2	1732.0	1732.0	105.2	105.1	0.1
SINGLE 1060	:	60152	MNTCELO4	-	63043	ELK RIV4	CKT: 1	1874.4	1871.9	1732.0	1732.0	105.2	105.1	0.1
SINGLE 49	:	34016	EMERY 5	-	34017	CGORDO_5	CKT: 1	1873.8	1871.2	1732.0	1732.0	105.2	105.1	0.1
SINGLE 970	:	60112	FTRIDLY7	-	60145	FRANKLN7	CKT: 1	1873.4	.....	1732.0	.....	105.2	.....	*NEW*
SINGLE 973	:	60114	ELM CRK3	-	60115	ELMCRK 7	CKT: 1	1874.3	1871.8	1732.0	1732.0	105.2	105.1	0.1
SINGLE 992	:	60122	LAWRENC7	-	60834	LAWRENC8	CKT: 1	1874.1	1872.2	1732.0	1732.0	105.2	105.1	0.1
SINGLE 109	:	34047	ANTA TP5	-	66561	DENISON5	CKT: 1	1874.1	1871.6	1732.0	1732.0	105.2	105.1	0.1
SINGLE 151	:	34068	M-TOWN 5	-	34079	TRAER 5	CKT: 1	1874.0	1871.5	1732.0	1732.0	105.2	105.1	0.1
SINGLE 1006	:	60128	SPLT RK5	-	60129	SPLT RK7	CKT: 1	1873.6	1871.2	1732.0	1732.0	105.2	105.1	0.1
SINGLE 163	:	34079	TRAER 5	-	34087	DYSART 5	CKT: 1	1874.3	1871.8	1732.0	1732.0	105.2	105.1	0.1
SINGLE 173	:	34084	PARNEL 5	-	34185	POWESHK5	CKT: 1	1873.6	1871.1	1732.0	1732.0	105.2	105.1	0.1
SINGLE 10	:	34003	MAGNLIA5	-	34004	ELK 5	CKT: 1	1873.8	1871.3	1732.0	1732.0	105.2	105.1	0.1
SINGLE 949	:	60105	PR ISLD3	-	60236	REDROCK3	CKT: 1	1873.9	1871.4	1732.0	1732.0	105.2	105.1	0.1
SINGLE 1015	:	60133	SHEYNNE4	-	66754	MAPLE R4	CKT: 1	1874.4	1871.9	1732.0	1732.0	105.2	105.1	0.1
SINGLE 1029	:	60139	MALLARD7	-	67166	DUNNING7	CKT: 1	1873.8	1871.3	1732.0	1732.0	105.2	105.1	0.1
SINGLE 950	:	60105	PR ISLD3	-	60236	REDROCK3	CKT: 2	1873.9	1871.4	1732.0	1732.0	105.2	105.1	0.1
SINGLE 35	:	34010	HAYWARD5	-	34015	LIME CK5	CKT: 1	1873.4	.....	1732.0	.....	105.2	.....	*NEW*
SINGLE 5	:	6012	G253INT	-	34003	MAGNLIA5	CKT: 1	1874.1	1871.6	1732.0	1732.0	105.2	105.1	0.1
SINGLE 1197	:	60217	INVRHLS3	-	60236	REDROCK3	CKT: 1	1874.6	1872.0	1732.0	1732.0	105.2	105.1	0.1
SINGLE 1237	:	60238	REDROCK7	-	60344	WOODBUR7	CKT: 1	1874.2	1871.7	1732.0	1732.0	105.2	105.1	0.1
BASE CASE	:	**	BASE CASE		**			1872.4	1869.9	1732.0	1732.0	105.1	105.0	0.1
SINGLE 1024	:	60138	SOURIS 7	-	60139	MALLARD7	CKT: 1	1871.0	1868.5	1732.0	1732.0	105.0	104.9	0.1
SINGLE 1026	:	60139	MALLARD7	-	66449	MAX 7	CKT: 1	1870.5	1867.9	1732.0	1732.0	105.0	104.9	0.1
SINGLE 1082	:	60163	WST CLD7	-	60732	WST CLD8	CKT: 1	1871.2	1868.7	1732.0	1732.0	105.0	104.9	0.1
SINGLE 1112	:	60186	AS KING3	-	60187	AS KING7	CKT: 1	1870.8	1868.4	1732.0	1732.0	105.0	104.9	0.1
SINGLE 1118	:	60187	AS KING7	-	60325	WILOWRV7	CKT: 1	1870.7	1868.2	1732.0	1732.0	105.0	104.9	0.1
SINGLE 31	:	34009	WINBAGO5	-	60120	BLUEETA5	CKT: 1	1871.3	1868.7	1732.0	1732.0	105.0	104.9	0.1
SINGLE 60	:	34020	HAZL S 5	-	34135	DUNDEE 5	CKT: 1	1871.3	1868.8	1732.0	1732.0	105.0	104.9	0.1
SINGLE 247	:	34137	TRIBOJI5	-	66563	SPENCER5	CKT: 1	1870.9	1868.2	1732.0	1732.0	105.0	104.9	0.1
SINGLE 960	:	60109	WILMART5	-	60110	WILMART7	CKT: 1	1871.2	1868.7	1732.0	1732.0	105.0	104.9	0.1
SINGLE 961	:	60109	WILMART5	-	60120	BLUEETA5	CKT: 1	1871.3	1868.7	1732.0	1732.0	105.0	104.9	0.1
SINGLE 1139	:	60196	CHI 7	-	60345	WYOMING7	CKT: 1	1870.6	1868.1	1732.0	1732.0	105.0	104.9	0.1
SINGLE 1058	:	60151	MNTCELO3	-	60153	MNTCELO7	CKT: 1	1871.2	1868.9	1732.0	1732.0	105.0	104.9	0.1
SINGLE 62	:	34021	LANSINGW	-	34022	LANSING5	CKT: 1	1870.1	1867.6	1732.0	1732.0	105.0	104.8	0.2
SINGLE 1066	:	60155	PULASKI7	-	60763	PULASKI8	CKT: 1	1870.8	1868.3	1732.0	1732.0	105.0	104.9	0.1
SINGLE 4	:	6010	ELLSBRO	-	60362	CHANRMB7	CKT: 1	1871.1	1868.7	1732.0	1732.0	105.0	104.9	0.1
SINGLE 3	:	6010	ELLSBRO	-	60119	LKYNKTN7	CKT: 1	1871.1	1868.7	1732.0	1732.0	105.0	104.9	0.1
SINGLE 1170	:	60206	CROWRVR7	-	62925	DICKNSN7	CKT: 1	1871.3	.....	1732.0	.....	105.0	.....	*NEW*
SINGLE 974	:	60114	ELM CRK3	-	60151	MNTCELO3	CKT: 1	1870.8	1867.4	1732.0	1732.0	105.0	104.8	0.2
SINGLE 1022	:	60136	MAPLE R7	-	66754	MAPLE R4	CKT: 1	1871.4	1868.9	1732.0	1732.0	105.0	104.9	0.1
SINGLE 1043	:	60146	GRANCTY7	-	60161	STREGIS7	CKT: 1	1868.8	1866.3	1732.0	1732.0	104.9	104.8	0.1
SINGLE 975	:	60114	ELM CRK3	-	60233	PARKERS3	CKT: 1	1869.8	1867.3	1732.0	1732.0	104.9	104.8	0.1
SINGLE 1034	:	60142	BENTON 3	-	60160	SHERCO 3	CKT: 1	1868.9	1866.4	1732.0	1732.0	104.9	104.8	0.1
SINGLE 1027	:	60139	MALLARD7	-	66452	RUGBY 7	CKT: 1	1869.1	1866.5	1732.0	1732.0	104.9	104.8	0.1
SINGLE 1059	:	60151	MNTCELO3	-	60160	SHERCO 3	CKT: 1	1869.3	1866.8	1732.0	1732.0	104.9	104.8	0.1
SINGLE 1220	:	60233	PARKERS3	-	60270	MPLEGV13	CKT: 1	1869.5	1867.0	1732.0	1732.0	104.9	104.8	0.1
SINGLE 1028	:	60139	MALLARD7	-	67155	LOGAN 7	CKT: 1	1869.1	1866.5	1732.0	1732.0	104.9	104.8	0.1
SINGLE 1115	:	60186	AS KING3	-	60236	REDROCK3	CKT: 1	1868.2	1865.7	1732.0	1732.0	104.8	104.7	0.1
SINGLE 1236	:	60238	REDROCK7	-	60336	NSSJCT 7	CKT: 1	1866.6	1864.1	1732.0	1732.0	104.7	104.6	0.1
SINGLE 1003	:	60126	SPLT RK3	-	60286	NOBLES 3	CKT: C	1865.5	1862.9	1732.0	1732.0	104.7	104.6	0.1
SINGLE 1142	:	60197	CHIS CO2	-	61493	CHIS D1Y	CKT: 1	1864.6	1862.0	1732.0	1732.0	104.6	104.5	0.1
SINGLE 1143	:	60197	CHIS CO2	-	61494	CHIS D2Y	CKT: 1	1864.6	1862.0	1732.0	1732.0	104.6	104.5	0.1
SINGLE 1145	:	60199	CHIS CO3	-	61493	CHIS D1Y	CKT: 1	1864.6	1862.0	1732.0	1732.0	104.6	104.5	0.1
SINGLE 1146	:	60199	CHIS CO3	-	61494	CHIS D2Y	CKT: 1	1864.6	1862.0	1732.0	1732.0	104.6	104.5	0.1
SINGLE 941	:	60015	ANSON CG	-	61475	ANS TR2Y	CKT: 2	1864.8	1862.3	1732.0	1732.0	104.6	104.5	0.1
SINGLE 940	:	60015	ANSON CG	-	60129	SPLT RK7	CKT: 1	1864.8	1862.3	1732.0	1732.0	104.6	104.5	0.1
SINGLE 1140	:	60196	CHI 7	-	60920	LINDSTM7	CKT: C	1864.7	1862.1	1732.0	1732.0	104.6	104.5	0.1
SINGLE 1144	:	60199	CHIS CO3	-	60221	KOLMNLK3	CKT: 1	1854.5	1851.8	1732.0	1732.0	104.0	103.9	0.1
SINGLE 1116	:	60186	AS KING3	-	60304	EAU CL 3	CKT: 1	1850.5	1848.0	1732.0	1732.0	103.8	103.7	0.1
SINGLE 1113	:	60186	AS KING3	-	60199	CHIS CO3	CKT: 1	1850.1	1847.5	1732.0	1732.0	103.8	103.6	0.2
SINGLE 56	:	34018	HAZLTON3	-	60102	ADAMS 3	CKT: 1	1851.0	1848.6	1732.0	1732.0	103.8	103.7	0.1
SINGLE 22	:	34007	LAKEFLD5	-	34137	TRIBOJI5	CKT: 1	.....	1868.7	.....	1732.0	.....	104.9	*ELIM*

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 SINGLE 53   : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1   .....  1861.3   .....  1732.0   .....   104.5  *ELIM*
 SINGLE 1238 : 60239 ROGRSLK7 - 60278 LONEOK27 CKT: 2   .....  1867.7   .....  1732.0   .....   104.9  *ELIM*
 *** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

==================================================================================================================
 39) 60200 BLK DG27 - 60013 BLK D73G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 BASE CASE   : **       BASE CASE      **               128.9   128.9   133.0   133.0    96.9    96.9     0.0

==================================================================================================================
 40) 60214 HIBRDGE7 - 60010 HIBRD76G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 BASE CASE   : **       BASE CASE      **               179.4   179.4   192.0   192.0    93.5    93.5     0.0

==================================================================================================================
 41) 60240 RIVRSID7 - 60008 RIVRS78G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 BASE CASE   : **       BASE CASE      **               261.7   261.7   275.0   275.0    95.2    95.2     0.0

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 42) 60264 LOON LK7 - 61976 LOON LK8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 955  : 60107 W FARIB7 - 61952 S FARIB5 CKT: 1   128.7   128.2    75.0    75.0   171.5   170.9     0.6
 SINGLE 1697 : 61952 S FARIB5 - 61964 OWATNNA5 CKT: 1   128.6   127.9    75.0    75.0   171.5   170.5     1.0
 SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   124.7   123.7    75.0    75.0   166.3   165.0     1.3
 SINGLE 952  : 60107 W FARIB7 - 60265 LOON TP7 CKT: C   122.3   121.4    75.0    75.0   163.1   161.9     1.2
 PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **               118.4   118.0    75.0    75.0   157.9   157.3     0.6
             : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
             : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
 SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1   118.3   110.3    75.0    75.0   157.7   147.1    10.6
 SINGLE 1695 : 61948 BYRON  5 - 61950 BYRON  3 CKT: 1   104.0   103.6    75.0    75.0   138.7   138.1     0.6
 SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1    96.4    95.7    75.0    75.0   128.5   127.6     0.9
 BLL-PRI/IVH3: ** MULTIPLE CONTINGENCY **                95.9    95.5    75.0    75.0   127.8   127.3     0.5
             : 60192 BLUE LK3 - 60105 PR ISLD3 CKT: 1
             : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
 SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1    95.4    94.9    75.0    75.0   127.2   126.5     0.7
 ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                94.8    94.1    75.0    75.0   126.4   125.5     0.9
             : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
 700    1    : ** MULTIPLE CONTINGENCY **                94.8    94.4    75.0    75.0   126.3   125.9     0.4
             : 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1
             : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
             : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1
 SINGLE 33   : 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1    94.4    94.0    75.0    75.0   125.9   125.4     0.5
 050    2    : ** MULTIPLE CONTINGENCY **                94.2    93.8    75.0    75.0   125.7   125.1     0.6
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
 SINGLE 964  : 60110 WILMART7 - 60194 CARVRCO7 CKT: 1    93.9    93.5    75.0    75.0   125.3   124.7     0.6
 SINGLE 2835 : 34300 MONTGMY8 - 34310 MONTGG19 CKT: 1    93.7    93.3    75.0    75.0   124.9   124.4     0.5
 050    1    : ** MULTIPLE CONTINGENCY **                93.1    92.5    75.0    75.0   124.1   123.3     0.8
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
 SINGLE 2704 : 34006 LAKEFLD3 - 63875 RAUN   3 CKT: 1    93.0    92.3    75.0    75.0   124.0   123.1     0.9
 SINGLE 1452 : 60783 JORDAN 8 - 60936 NPRAG2T8 CKT: 1    93.0    92.7    75.0    75.0   124.0   123.5     0.5
 SINGLE 1126 : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1    92.6    92.2    75.0    75.0   123.4   122.9     0.5
 SINGLE 2897 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1    92.2    91.8    75.0    75.0   122.9   122.4     0.5
 SINGLE 2898 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1    92.2    91.8    75.0    75.0   122.9   122.4     0.5
 SINGLE 31   : 34009 WINBAGO5 - 60120 BLUEETA5 CKT: 1    92.2    91.8    75.0    75.0   122.9   122.4     0.5
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CNC-KOL/TER3: ** MULTIPLE CONTINGENCY **                92.2    91.8    75.0    75.0   122.9   122.4     0.5
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
SINGLE 960  : 60109 WILMART5 - 60110 WILMART7 CKT: 1    92.2    91.8    75.0    75.0   122.9   122.5     0.4
IVH-BLL/RRK3: ** MULTIPLE CONTINGENCY **                92.2    91.8    75.0    75.0   122.9   122.4     0.5
            : 60217 INVRHLS3 - 60192 BLUE LK3 CKT: 1
            : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1
SINGLE 961  : 60109 WILMART5 - 60120 BLUEETA5 CKT: 1    92.2    91.9    75.0    75.0   122.9   122.5     0.4
770         : ** MULTIPLE CONTINGENCY **                92.2    91.9    75.0    75.0   122.9   122.5     0.4
            : 60109 WILMART5 - 60110 WILMART7 CKT: 1
            : 60109 WILMART5 - 60120 BLUEETA5 CKT: 1
            : 60120 BLUEETA5 - 34009 WINBAGO5 CKT: 1
SINGLE 3393 : 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1    92.1    91.7    75.0    75.0   122.8   122.3     0.5
022       3 : ** MULTIPLE CONTINGENCY **                92.1    91.7    75.0    75.0   122.8   122.3     0.5
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
022       1 : ** MULTIPLE CONTINGENCY **                92.0    91.6    75.0    75.0   122.6   122.1     0.5
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
            : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
            : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
            : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
SINGLE 1698 : 61964 OWATNNA5 - 61968 OWATANA2 CKT: 2    92.0    91.6    75.0    75.0   122.6   122.2     0.4
SINGLE 3180 : 60890 SCOTTCO8 - 62684 MERRIAM8 CKT: 1    91.8   .....    75.0   .....   122.5   .....   *NEW*
ASK-CHI/KOL3: ** MULTIPLE CONTINGENCY **                91.9    91.6    75.0    75.0   122.5   122.1     0.4
            : 60186 AS KING3 - 60199 CHIS CO3 CKT: 1
            : 60186 AS KING3 - 60221 KOLMNLK3 CKT: 1
SINGLE 3191 : 60931 CARVRCO8 - 62675 ASSMPTN8 CKT: 1    91.9    91.5    75.0    75.0   122.5   122.0     0.5
SINGLE 1129 : 60193 BLUE LK7 - 60215 HYLNDLK7 CKT: 1    91.9    91.5    75.0    75.0   122.5   122.0     0.5
SINGLE 3150 : 60826 TRAVRSE8 - 62350 TRAVERS8 CKT: 1    91.9    91.5    75.0    75.0   122.5   122.0     0.5
SINGLE 1121 : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1    91.8    91.4    75.0    75.0   122.4   121.9     0.5
SINGLE 1120 : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C    91.8    91.4    75.0    75.0   122.4   121.9     0.5
SINGLE 3109 : 60784 BELPLAN8 - 62675 ASSMPTN8 CKT: 1    91.8    91.4    75.0    75.0   122.4   121.9     0.5
810   C1    : ** MULTIPLE CONTINGENCY **                91.8    91.4    75.0    75.0   122.4   121.9     0.5
            : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1
            : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C
BASE CASE   : **       BASE CASE      **                90.8    90.4    75.0    75.0   121.1   120.6     0.5
SINGLE 471  : 34298 MEDFRDJ8 - 61968 OWATANA2 CKT: 1    89.7    89.4    75.0    75.0   119.7   119.2     0.5
SINGLE 3596 : 67131 LARAMIE3 - 67118 LARAM31G CKT: 1    89.8    89.4    75.0    75.0   119.7   119.2     0.5
SINGLE 2775 : 34093 ARNOLD 3 - 64352 TIFFIN 3 CKT: 1    89.7    89.3    75.0    75.0   119.6   119.1     0.5
SINGLE 448  : 34279 PRAT T 8 - 61972 OWATANA1 CKT: 1    89.7    89.4    75.0    75.0   119.6   119.1     0.5
PKL-DKN/ECK3: ** MULTIPLE CONTINGENCY **                89.7    89.3    75.0    75.0   119.6   119.1     0.5
            : 60233 PARKERS3 - 60270 MPLEGV13 CKT: 1
            : 60233 PARKERS3 - 60114 ELM CRK3 CKT: 1
SINGLE 3398 : 63041 COAL CR4 - 63000 COAL 41G CKT: 1    89.7    89.3    75.0    75.0   119.6   119.1     0.5
SINGLE 3399 : 63041 COAL CR4 - 63001 COAL 42G CKT: 1    89.7    89.3    75.0    75.0   119.6   119.1     0.5
009   5     : ** MULTIPLE CONTINGENCY **                89.7    89.3    75.0    75.0   119.6   119.1     0.5
            : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
            : 63030 DICKNSN3 - 60270 MPLEGV13 CKT: 1
            : 60270 MPLEGV13 - 60233 PARKERS3 CKT: 1
SINGLE 3449 : 63314 BIGSTON4 - 63315 BIGSTN1G CKT: 1    89.5    89.2    75.0    75.0   119.4   118.9     0.5
SINGLE 1453 : 60785 NPRAG T8 - 60936 NPRAG2T8 CKT: 1    89.4    89.1    75.0    75.0   119.3   118.8     0.5
SINGLE 2705 : 34007 LAKEFLD5 -  6006 G262     CKT: 1    89.4    89.1    75.0    75.0   119.3   118.8     0.5
SINGLE 1001 : 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1    89.5    89.1    75.0    75.0   119.3   118.8     0.5
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SINGLE 1008 : 60130 SPLTRTA3 - 66537 WHITE  3 CKT: 1    89.5    89.1    75.0    75.0   119.3   118.8     0.5
SINGLE 2703 : 34006 LAKEFLD3 -  3400 G164     CKT: 1    89.4    89.0    75.0    75.0   119.2   118.7     0.5
SINGLE 21   : 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1    89.2    89.1    75.0    75.0   119.0   118.8     0.2
SINGLE 3004 : 60331 LKFLDXL3 - 63091 LGS  12Y CKT: 1    89.2    88.8    75.0    75.0   119.0   118.5     0.5
SINGLE 3005 : 60331 LKFLDXL3 - 63092 LGS  34Y CKT: 1    89.2    88.8    75.0    75.0   119.0   118.5     0.5
SINGLE 3006 : 60331 LKFLDXL3 - 63093 LGS  56Y CKT: 1    89.2    88.8    75.0    75.0   119.0   118.5     0.5
SINGLE 20   : 34006 LAKEFLD3 - 60286 NOBLES 3 CKT: C    89.1    88.7    75.0    75.0   118.8   118.3     0.5
PRI-RRK/RRK3: ** MULTIPLE CONTINGENCY **                88.9    88.6    75.0    75.0   118.6   118.1     0.5
            : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 1
            : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
SINGLE 55   : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1    88.8    88.2    75.0    75.0   118.4   117.5     0.9
SINGLE 470  : 34298 MEDFRDJ8 - 34299 WASECAJ8 CKT: 1    88.7    88.3    75.0    75.0   118.2   117.7     0.5
SINGLE 972  : 60113 DOME   7 - 60830 EASTWD18 CKT: P    88.4    88.0    75.0    75.0   117.8   117.4     0.4
SINGLE 963  : 60110 WILMART7 - 60113 DOME   7 CKT: C    88.3    88.0    75.0    75.0   117.8   117.3     0.5
SINGLE 476  : 34300 MONTGMY8 - 62876 FRLK TP8 CKT: 1    88.0    87.7    75.0    75.0   117.4   117.0     0.4
SINGLE 474  : 34299 WASECAJ8 - 62876 FRLK TP8 CKT: 1    87.4    87.1    75.0    75.0   116.6   116.2     0.4
SINGLE 477  : 34301 NEWPRAG8 - 60936 NPRAG2T8 CKT: 1    87.4    87.1    75.0    75.0   116.5   116.1     0.4
SINGLE 2903 : 60110 WILMART7 -  8007 G261-CT2 CKT: 1    87.2    86.9    75.0    75.0   116.3   115.8     0.5
SINGLE 2902 : 60110 WILMART7 -  8006 G261-CT1 CKT: 1    87.2    86.9    75.0    75.0   116.3   115.8     0.5
SINGLE 2894 : 60102 ADAMS  3 - 63032 PL VLLY3 CKT: 1    87.0    86.6    75.0    75.0   116.0   115.5     0.5
SINGLE 2901 : 60108 WILMART3 -  8001 G261-ST  CKT: 1    86.5    86.1    75.0    75.0   115.3   114.8     0.5
SINGLE 968  : 60110 WILMART7 - 60830 EASTWD18 CKT: P    86.2    85.8    75.0    75.0   114.9   114.4     0.5
SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1    86.1    85.7    75.0    75.0   114.8   114.3     0.5
SINGLE 475  : 34300 MONTGMY8 - 34301 NEWPRAG8 CKT: 1    85.5    85.2    75.0    75.0   114.0   113.6     0.4
825         : ** MULTIPLE CONTINGENCY **                85.0    84.6    75.0    75.0   113.3   112.8     0.5
            : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
            : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
            : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1
SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1    84.7    84.3    75.0    75.0   112.9   112.4     0.5
SINGLE 3361 : 61948 BYRON  5 - 61906 MAPLE LF CKT: 1    83.7    83.4    75.0    75.0   111.7   111.2     0.5
SINGLE 473  : 34299 WASECAJ8 - 61160 MERIDAN8 CKT: 1    82.0    81.7    75.0    75.0   109.4   108.9     0.5
SINGLE 482  : 34308 WASECAT8 - 61160 MERIDAN8 CKT: 1    81.6    81.2    75.0    75.0   108.7   108.3     0.4
SINGLE 481  : 34308 WASECAT8 - 60829 WAS MUN8 CKT: 1    81.5    81.2    75.0    75.0   108.7   108.2     0.5
SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    78.4    78.4    75.0    75.0   104.6   104.5     0.1
SINGLE 1701 : 61972 OWATANA1 - 61976 LOON LK8 CKT: 1    78.4    78.1    75.0    75.0   104.5   104.1     0.4

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 43) 60286 NOBLES 3 - 60287 NOBLES 7 CKT:  C          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 2894 : 60102 ADAMS  3 - 63032 PL VLLY3 CKT: 1   509.1   .....   448.0   .....   113.6   .....   *NEW*
SINGLE 2805 : 34137 TRIBOJI5 - 63897 G298SYS  CKT: 1   507.9   .....   448.0   .....   113.4   .....   *NEW*
SINGLE 2907 : 60126 SPLT RK3 - 61495 SPLTRK1Y CKT: 1   500.1   .....   448.0   .....   111.6   .....   *NEW*
SINGLE 2908 : 60126 SPLT RK3 - 61496 SPLTRK2Y CKT: 1   500.1   .....   448.0   .....   111.6   .....   *NEW*
SINGLE 1370 : 60362 CHANRMB7 - 60369 FENTON 7 CKT: C   421.7   421.6   448.0   448.0    94.1    94.1     0.0
SINGLE 53   : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1   .....   508.7   .....   448.0   .....   113.5  *ELIM*
SINGLE 1703 : 62001 BENSON 7 - 62006 KERKHO 7 CKT: 1   .....   506.6   .....   448.0   .....   113.1  *ELIM*
SINGLE 1710 : 62005 KERKHOT7 - 62425 WILLMAR7 CKT: C   .....   508.6   .....   448.0   .....   113.5  *ELIM*
SINGLE 1885 : 62425 WILLMAR7 - 62427 WILLMAR8 CKT: 1   .....   508.6   .....   448.0   .....   113.5  *ELIM*
*** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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 44) 60310 MONROCO5 - 60949 MONROCO8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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885         : ** MULTIPLE CONTINGENCY **                90.8    90.8    70.0    70.0   129.7   129.7     0.0
            : 69507 SENECA 5 - 69511 BELLCTR5 CKT: 1
            : 69507 SENECA 5 - 69523 GENOA  5 CKT: 1
SINGLE 1559 : 60953 WSTSALE8 - 60973 LAX    8 CKT: 1    85.1    85.1    70.0    70.0   121.6   121.6     0.0
SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1    84.7    84.7    70.0    70.0   120.9   121.0    -0.1
SINGLE 3219 : 60966 JACKCO 8 - 68860 BROCKW_8 CKT: 1    76.8    76.8    70.0    70.0   109.7   109.7     0.0
SINGLE 1558 : 60952 BANGOR 8 - 60953 WSTSALE8 CKT: 1    76.5    76.5    70.0    70.0   109.3   109.3     0.0
SINGLE 1568 : 60962 T ALB  8 - 60963 T BRF  8 CKT: 1    75.7    75.7    70.0    70.0   108.2   108.1     0.1
SINGLE 3242 : 60995 IRONMDT8 - 68860 BROCKW_8 CKT: 1    75.7    75.7    70.0    70.0   108.2   108.2     0.0
SINGLE 1569 : 60963 T BRF  8 - 60995 IRONMDT8 CKT: 1    75.7    75.7    70.0    70.0   108.2   108.1     0.1
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SINGLE 1565	: 60958 T SHAM 8 - 60962 T ALB 8 CKT: 1	75.3	75.2	70.0	70.0	107.5	107.5	0.0
SINGLE 1557	: 60951 ROCKLND8 - 60952 BANGOR 8 CKT: 1	74.5	74.5	70.0	70.0	106.4	106.4	0.0
SINGLE 1555	: 60949 MONROCO8 - 60951 ROCKLND8 CKT: 1	73.5	73.5	70.0	70.0	105.1	105.0	0.1
SINGLE 1564	: 60958 T SHAM 8 - 60960 T MEL2 8 CKT: 1	73.5	73.5	70.0	70.0	105.0	105.0	0.0
SINGLE 1563	: 60957 CATARAC8 - 60959 T MEL1 8 CKT: 1	72.8	72.8	70.0	70.0	104.1	104.0	0.1
SINGLE 1566	: 60959 T MEL1 8 - 60960 T MEL2 8 CKT: 1	72.9	72.9	70.0	70.0	104.1	104.1	0.0
SINGLE 1560	: 60954 TMAC 2 8 - 60956 MCCOY 8 CKT: 1	72.4	72.4	70.0	70.0	103.5	103.5	0.0
SINGLE 1561	: 60954 TMAC 2 8 - 60957 CATARAC8 CKT: 1	72.5	72.5	70.0	70.0	103.5	103.5	0.0
SINGLE 1323	: 60307 JACKSON5 - 60316 TREMVAL5 CKT: 1	71.9	71.9	70.0	70.0	102.7	102.6	0.1
SINGLE 1324	: 60307 JACKSON5 - 60966 JACKCO 8 CKT: 1	71.9	71.9	70.0	70.0	102.7	102.7	0.0
SINGLE 3204	: 60944 VIROQUA8 - 68812 WESTBY CKT: 1	71.0	71.0	70.0	70.0	101.5	101.4	0.1
SINGLE 3205	: 60944 VIROQUA8 - 69306 THICKORY CKT: 1	70.9	70.9	70.0	70.0	101.3	101.3	0.0
SINGLE 56	: 34018 HAZLTON3 - 60102 ADAMS 3 CKT: 1	70.8	70.8	70.0	70.0	101.2	101.1	0.1
SINGLE 1562	: 60955 SPARTA28 - 60956 MCCOY 8 CKT: 1	70.7	70.7	70.0	70.0	101.0	101.0	0.0
SINGLE 3207	: 60945 NSPGENO8 - 68810 GENOA CKT: 1	70.7	70.7	70.0	70.0	101.0	100.9	0.1
SINGLE 3206	: 60945 NSPGENO8 - 68807 T RM CKT: 1	70.5	70.5	70.0	70.0	100.7	100.6	0.1
SINGLE 3285	: 61056 T WESTB8 - 68812 WESTBY CKT: 1	70.3	70.3	70.0	70.0	100.4	100.4	0.0
SINGLE 1327	: 60308 LACROSS5 - 60973 LAX 8 CKT: 1	69.9	69.9	70.0	70.0	99.9	99.8	0.1
SINGLE 1328	: 60308 LACROSS5 - 60973 LAX 8 CKT: 2	69.9	69.9	70.0	70.0	99.9	99.9	0.0
SINGLE 3203	: 60944 VIROQUA8 - 68803 LIBERTY CKT: 1	69.8	69.8	70.0	70.0	99.8	99.8	0.0
SINGLE 55	: 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1	69.1	69.1	70.0	70.0	98.7	98.6	0.1
825	: ** MULTIPLE CONTINGENCY **	68.7	68.6	70.0	70.0	98.1	98.0	0.1
	: 63032 PL VLLY3 - 60102 ADAMS 3 CKT: 1							
	: 60102 ADAMS 3 - 34014 ADAMS 5 CKT: 1							
	: 60102 ADAMS 3 - 34018 HAZLTON3 CKT: 1							
SINGLE 2775	: 34093 ARNOLD 3 - 64352 TIFFIN 3 CKT: 1	68.6	68.6	70.0	70.0	98.0	98.0	0.0
SINGLE 62	: 34021 LANSINGW - 34022 LANSING5 CKT: 1	68.5	68.5	70.0	70.0	97.9	97.9	0.0
SINGLE 1314	: 60302 COULEE 5 - 60967 COULEE 8 CKT: 2	68.2	68.2	70.0	70.0	97.5	97.5	0.0
SINGLE 1572	: 60967 COULEE 8 - 60968 SW CRK 8 CKT: 1	68.0	68.0	70.0	70.0	97.2	97.2	0.0
SINGLE 1551	: 60946 T CASH G - 61056 T WESTB8 CKT: 1	68.0	68.0	70.0	70.0	97.1	97.1	0.0
SINGLE 1584	: 60979 TREMVAL8 - 60985 BLAIR 8 CKT: 1	67.8	67.8	70.0	70.0	96.9	96.9	0.0
SINGLE 2727	: 34022 LANSING5 - 69531 POSTVIL5 CKT: 1	67.6	67.6	70.0	70.0	96.6	96.6	0.0
SINGLE 1556	: 60949 MONROCO8 - 60955 SPARTA28 CKT: 1	67.6	67.6	70.0	70.0	96.6	96.5	0.1
SINGLE 1588	: 60985 BLAIR 8 - 61139 T FLY C8 CKT: 1	67.6	67.6	70.0	70.0	96.5	96.5	0.0
BASE CASE	: ** BASE CASE **	66.6	66.6	70.0	70.0	95.1	95.1	0.0
SINGLE 2774	: 34091 ARNOLD 5 - 34090 ARNOLD1G CKT: 1	65.5	65.4	70.0	70.0	93.5	93.5	0.0
SINGLE 3596	: 67131 LARAMIE3 - 67118 LARAM31G CKT: 1	65.5	65.5	70.0	70.0	93.5	93.5	0.0
SINGLE 3590	: 67101 ANTELOP3 - 67107 ANTEL32G CKT: 1	65.4	65.4	70.0	70.0	93.4	93.4	0.0
SINGLE 2958	: 60240 RIVRSID7 - 60008 RIVRS78G CKT: 1	65.4	65.3	70.0	70.0	93.4	93.4	0.0
SINGLE 3589	: 67101 ANTELOP3 - 67103 ANTEL31G CKT: 1	65.4	65.4	70.0	70.0	93.4	93.4	0.0
SINGLE 2717	: 34016 EMERY 5 - 34912 EMERYST1 CKT: 1	65.3	65.3	70.0	70.0	93.3	93.3	0.0
SINGLE 3592	: 67105 LELANDO3 - 67111 LELAN32G CKT: 1	65.3	65.3	70.0	70.0	93.3	93.3	0.0
SINGLE 2724	: 34021 LANSINGW - 69523 GENOA 5 CKT: 1	65.3	65.3	70.0	70.0	93.3	93.2	0.1
SINGLE 3622	: 67316 COYOTE 3 - 67315 COYOTE1G CKT: 1	65.3	65.3	70.0	70.0	93.3	93.2	0.1
SINGLE 2901	: 60108 WILMART3 - 8001 G261-ST CKT: 1	65.1	65.1	70.0	70.0	93.0	93.0	0.0
SINGLE 3449	: 63314 BIGSTON4 - 63315 BIGSTN1G CKT: 1	65.0	65.0	70.0	70.0	92.9	92.9	0.0
SINGLE 3398	: 63041 COAL CR4 - 63000 COAL 41G CKT: 1	64.8	64.8	70.0	70.0	92.6	92.6	0.0
SINGLE 3399	: 63041 COAL CR4 - 63001 COAL 42G CKT: 1	64.8	64.8	70.0	70.0	92.6	92.6	0.0
SINGLE 959	: 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1	64.5	64.5	70.0	70.0	92.1	92.2	-0.1
SINGLE 2934	: 60186 AS KING3 - 60006 KING 31G CKT: 1	64.2	64.2	70.0	70.0	91.7	91.7	0.0
SINGLE 2713	: 34014 ADAMS 5 - 69526 BVR CRK5 CKT: 1	64.2	64.2	70.0	70.0	91.7	91.7	0.0
SINGLE 951	: 60105 PR ISLD3 - 61950 BYRON 3 CKT: 1	64.1	63.1	70.0	70.0	91.5	90.1	1.4
SINGLE 3361	: 61948 BYRON 5 - 61906 MAPLE LF CKT: 1	64.0	64.0	70.0	70.0	91.4	91.4	0.0
SINGLE 1554	: 60949 MONROCO8 - 60950 SPARTA 8 CKT: 1	63.7	63.7	70.0	70.0	91.0	91.0	0.0
SINGLE 2923	: 60160 SHERCO 3 - 60001 SHERC32G CKT: 1	63.6	63.6	70.0	70.0	90.9	90.9	0.0
SINGLE 2723	: 34021 LANSINGW - 34024 LANS5 4G CKT: 1	63.6	63.6	70.0	70.0	90.9	90.9	0.0
SINGLE 3202	: 60944 VIROQUA8 - 68800 T VIO CKT: 1	63.6	63.6	70.0	70.0	90.9	90.9	0.0
SINGLE 2917	: 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1	63.6	63.6	70.0	70.0	90.9	90.9	0.0
SINGLE 2898	: 60105 PR ISLD3 - 60004 PR IS32G CKT: 1	63.6	63.6	70.0	70.0	90.8	90.8	0.0
SINGLE 2922	: 60160 SHERCO 3 - 60000 SHERC31G CKT: 1	63.6	63.6	70.0	70.0	90.8	90.8	0.0
SINGLE 2897	: 60105 PR ISLD3 - 60003 PR IS31G CKT: 1	63.6	63.5	70.0	70.0	90.8	90.8	0.0
PRI-BYN/RRK3	: ** MULTIPLE CONTINGENCY **	63.2	63.1	70.0	70.0	90.2	90.1	0.1
	: 60105 PR ISLD3 - 61950 BYRON 3 CKT: 1							

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                : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2

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  45) 60331 LKFLDXL3 -  6015 G263     CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  BASE CASE    : **       BASE CASE      **               105.2   105.1   110.0   110.0    95.6    95.6     0.0

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  46) 60369 FENTON 7 -  6036 G162     CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1008 : 60130 SPLTRTA3 - 66537 WHITE  3 CKT: 1   202.3   202.3   222.0   222.0    91.1    91.1     0.0
  BASE CASE    : **       BASE CASE      **               200.7   200.7   222.0   222.0    90.4    90.4     0.0

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  47) 60710 FARM TP8 - 62839 BGFSHTP8 CKT:  1           PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  BEN-GRC/SCL7: ** MULTIPLE CONTINGENCY **                34.8    34.6    19.3    19.3   185.6   184.3     1.3
                : 60143 BENTON 7 - 60146 GRANCTY7 CKT: 1
                : 60143 BENTON 7 - 60348 BENCTP7  CKT: 1
                : 60348 BENCTP7  - 60157 STCLOUD7 CKT: 1
  SINGLE 1431 : 60752 BLCKOAK8 - 60754 MELRSMU8 CKT: 1    34.4    34.3    19.3    19.3   175.6   174.7     0.9
  SINGLE 3095 : 60759 STJOSPH8 - 62843 LSAUKTP8 CKT: 1    31.4    31.3    19.3    19.3   158.8   158.4     0.4
  SINGLE 3071 : 60732 WST CLD8 - 62843 LSAUKTP8 CKT: 1    31.4    31.4    19.3    19.3   158.8   158.4     0.4
  SINGLE 1429 : 60749 DGLAS C8 - 60750 OSAKIS 8 CKT: 1    30.9    30.9    19.3    19.3   158.0   157.9     0.1
  SINGLE 3088 : 60750 OSAKIS 8 - 62820 W UNION8 CKT: 1    30.4    30.2    19.3    19.3   155.1   154.3     0.8
  SINGLE 3096 : 60760 PAYNES 8 - 62824 ZION TP8 CKT: 1    30.2    30.1    19.3    19.3   153.6   152.9     0.7
  SINGLE 3103 : 60768 ELRSATP8 - 62824 ZION TP8 CKT: 1    29.7    29.6    19.3    19.3   151.2   150.4     0.8
  SINGLE 1432 : 60753 MEIRGRV8 - 60768 ELRSATP8 CKT: 1    28.7    28.6    19.3    19.3   146.0   145.2     0.8
  SINGLE 1076 : 60159 STCTPW 7 - 60162 WAKEFLD7 CKT: 1    28.5    28.3    19.3    19.3   145.7   145.1     0.6
  756         : ** MULTIPLE CONTINGENCY **                28.4    28.2    19.3    19.3   145.4   144.8     0.6
                : 62815 I94PARK7 - 62816 STAUGST7 CKT: 1
                : 60162 WAKEFLD7 - 60159 STCTPW 7 CKT: 1
                : 60157 STCLOUD7 - 60159 STCTPW 7 CKT: 1
                : 62816 STAUGST7 - 60159 STCTPW 7 CKT: 1
  SINGLE 1430 : 60752 BLCKOAK8 - 60753 MEIRGRV8 CKT: 1    28.3    28.2    19.3    19.3   143.6   142.9     0.7
  SINGLE 1436 : 60759 STJOSPH8 - 61189 WATAB  8 CKT: 1    27.3    27.2    19.3    19.3   140.8   140.4     0.4
  SINGLE 2104 : 63222 ALEXAND7 - 67452 ALEXSS   CKT: 1    27.3    27.2    19.3    19.3   138.7   137.9     0.8
  SINGLE 3052 : 60717 WAKEFLD8 - 62846 FRHV TP8 CKT: 1    26.9    26.8    19.3    19.3   136.9   136.3     0.6
  SINGLE 1435 : 60758 JOHNS U8 - 61189 WATAB  8 CKT: 1    26.4    26.4    19.3    19.3   136.2   135.8     0.4
  SINGLE 3048 : 60705 LUXBGTP8 - 62846 FRHV TP8 CKT: 1    26.5    26.4    19.3    19.3   135.2   134.5     0.7
  SINGLE 1039 : 60144 DGLASCO7 - 63222 ALEXAND7 CKT: 1    26.5    26.4    19.3    19.3   134.8   134.1     0.7
  SINGLE 3046 : 60705 LUXBGTP8 - 62620 WATKINS8 CKT: 1    26.3    26.2    19.3    19.3   134.0   133.3     0.7
  SINGLE 2192 : 63329 WAHPETN4 - 63331 FERGSFL4 CKT: 1    26.4    26.3    19.3    19.3   133.5   132.8     0.7
  SINGLE 1397 : 60686 E MELRO8 - 60754 MELRSMU8 CKT: 1    26.4    25.5    19.3    19.3   132.7   129.5     3.2
  SINGLE 3044 : 60703 WATKINS8 - 62620 WATKINS8 CKT: 1    26.0    25.9    19.3    19.3   132.6   132.0     0.6
  SINGLE 1120 : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C    26.0    25.9    19.3    19.3   132.3   131.9     0.4
  SINGLE 1121 : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1    25.9    25.9    19.3    19.3   132.3   131.9     0.4
  810   C1    : ** MULTIPLE CONTINGENCY **                25.9    25.8    19.3    19.3   132.3   131.5     0.8
                : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1
                : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C
  SINGLE 1405 : 60703 WATKINS8 - 60704 KIMBALL8 CKT: 1    25.8    25.7    19.3    19.3   131.9   131.2     0.7
  SINGLE 2099 : 63219 GRANTCO7 - 63220 ELBOWLK7 CKT: 1    25.6    25.5    19.3    19.3   130.5   129.8     0.7
  SINGLE 2102 : 63220 ELBOWLK7 - 63221 BRANDN 7 CKT: 1    25.4    25.3    19.3    19.3   129.7   129.0     0.7
  SINGLE 1406 : 60704 KIMBALL8 - 60761 SOUTHVN8 CKT: 1    25.3    25.2    19.3    19.3   129.2   128.5     0.7
  SINGLE 3094 : 60758 JOHNS U8 - 62831 BRCKWTP8 CKT: 1    25.1    25.1    19.3    19.3   129.2   128.9     0.3
  SINGLE 1410 : 60712 ANNDALE8 - 60761 SOUTHVN8 CKT: 1    25.2    25.1    19.3    19.3   129.0   128.3     0.7
  SINGLE 2052 : 63051 HENNING4 - 63052 INMAN  4 CKT: 1    25.2    25.1    19.3    19.3   128.8   128.1     0.7
  SINGLE 2053 : 63051 HENNING4 - 63331 FERGSFL4 CKT: 1    25.4    25.2    19.3    19.3   128.7   128.5     0.2
  SCL-SAK/WAK7: ** MULTIPLE CONTINGENCY **                25.1    25.0    19.3    19.3   128.6   127.9     0.7
                : 60157 STCLOUD7 - 60159 STCTPW 7 CKT: 1
                : 60157 STCLOUD7 - 60154 SAUK RV7 CKT: 1
  SINGLE 1044 : 60146 GRANCTY7 - 60164 XRDS   7 CKT: 1    25.3    25.2    19.3    19.3   128.3   127.9     0.4
  SINGLE 2103 : 63221 BRANDN 7 - 67452 ALEXSS   CKT: 1    25.1    25.1    19.3    19.3   128.1   127.8     0.3
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SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    25.1    25.0    19.3    19.3   127.4   126.8     0.6
SINGLE 2924 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    25.0    24.9    19.3    19.3   127.2   126.5     0.7
SINGLE 1425 : 60743 BELGRAD8 - 60760 PAYNES 8 CKT: 1    24.9    24.7    19.3    19.3   126.4   125.7     0.7
SINGLE 3089 : 60752 BLCKOAK8 - 62847 GROVE  8 CKT: 1    24.9    24.7    19.3    19.3   126.3   125.6     0.7
SINGLE 1034 : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1    24.8    24.8    19.3    19.3   126.1   126.3    -0.2
675         : ** MULTIPLE CONTINGENCY **                24.8    24.8    19.3    19.3   126.1   126.3    -0.2
            : 60142 BENTON 3 - 63045 BENTON 4 CKT: 1
            : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1
            : 60142 BENTON 3 - 63045 BENTON 4 CKT: 2
SINGLE 3036 : 60686 E MELRO8 - 62829 MILWDTP8 CKT: 1    24.8    24.7    19.3    19.3   126.0   125.1     0.9
SINGLE 1013 : 60133 SHEYNNE4 - 63336 AUDUBON4 CKT: 1    24.9    24.7    19.3    19.3   125.9   126.0    -0.1
SINGLE 2101 : 63219 GRANTCO7 - 66555 MORRIS 7 CKT: 1    24.7    24.6    19.3    19.3   125.9   125.5     0.4
SINGLE 2190 : 63327 HANKSON4 - 63329 WAHPETN4 CKT: 1    24.7    24.6    19.3    19.3   125.8   125.1     0.7
SINGLE 1411 : 60712 ANNDALE8 - 60765 MAPLELK8 CKT: 1    24.6    24.5    19.3    19.3   125.7   125.1     0.6
SINGLE 2923 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1    24.6    24.5    19.3    19.3   125.2   124.8     0.4
SINGLE 1073 : 60157 STCLOUD7 - 60159 STCTPW 7 CKT: 1    24.5    24.4    19.3    19.3   125.1   124.7     0.4
SINGLE 3080 : 60743 BELGRAD8 - 62827 CROW LK8 CKT: 1    24.6    24.6    19.3    19.3   125.1   124.9     0.2
SINGLE 2922 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1    24.6    24.5    19.3    19.3   125.0   124.9     0.1
BASE CASE   : **       BASE CASE      **                23.5    23.4    19.3    19.3   120.2   119.5     0.7
SINGLE 2022 : 62980 MCLEOD 4 - 62981 MCLEOD 7 CKT: 1    22.4    22.3    19.3    19.3   115.6   115.0     0.6
SINGLE 1997 : 62925 DICKNSN7 - 63030 DICKNSN3 CKT: 1    22.3    22.2    19.3    19.3   115.2   114.9     0.3
665         : ** MULTIPLE CONTINGENCY **                22.4    22.3    19.3    19.3   115.1   114.4     0.7
            : 63043 ELK RIV4 - 60152 MNTCELO4 CKT: 1
            : 63043 ELK RIV4 - 62134 ELKR14S8 CKT: 1
050    1    : ** MULTIPLE CONTINGENCY **                22.5    22.4    19.3    19.3   114.9   114.3     0.6
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
            : 39901 COC DPC  - 38342 COC 69   CKT: 1
            : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
SINGLE 1070 : 60156 PYNSVIL7 - 60760 PAYNES 8 CKT: P    22.3    22.2    19.3    19.3   114.6   114.0     0.6
SINGLE 1071 : 60156 PYNSVIL7 - 60760 PAYNES 8 CKT: P    22.3    22.2    19.3    19.3   114.6   114.0     0.6
CNC-SHC/BUL3: ** MULTIPLE CONTINGENCY **                22.5    22.4    19.3    19.3   114.6   113.9     0.7
            : 60202 COON CK3 - 60160 SHERCO 3 CKT: 1
            : 60202 COON CK3 - 63031 BUNKER 3 CKT: 1
009   1     : ** MULTIPLE CONTINGENCY **                22.1    22.0    19.3    19.3   114.0   113.4     0.6
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 60151 MNTCELO3 - 60160 SHERCO 3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 1170 : 60206 CROWRVR7 - 62925 DICKNSN7 CKT: 1    22.4    22.4    19.3    19.3   114.0   115.0    -1.0
670     1   : ** MULTIPLE CONTINGENCY **                22.1    22.0    19.3    19.3   114.0   113.3     0.7
            : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
            : 63031 BUNKER 3 - 60160 SHERCO 3 CKT: 1
            : 63031 BUNKER 3 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61487 CNCMID2Y CKT: 1
            : 61487 CNCMID2Y - 60203 COON CK7 CKT: 1
            : 61487 CNCMID2Y - 60655 CNCTER29 CKT: 1
            : 63046 BUNKER 4 - 63031 BUNKER 3 CKT: 1
SHC-CNC/BUL3: ** MULTIPLE CONTINGENCY **                22.1    22.0    19.3    19.3   113.8   113.1     0.7
            : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
            : 60160 SHERCO 3 - 63031 BUNKER 3 CKT: 1
SINGLE 1776 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1    22.4    22.3    19.3    19.3   113.7   113.1     0.6
SINGLE 1433 : 60755 FREEPRT8 - 60756 ALBANY 8 CKT: 1    22.4    22.2    19.3    19.3   113.4   112.6     0.8
ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                22.2    22.0    19.3    19.3   113.2   112.6     0.6
            : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
009   7     : ** MULTIPLE CONTINGENCY **                22.2    21.9    19.3    19.3   113.1   112.4     0.7
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
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             : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
             : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
             : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
             : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
  SINGLE 2501 : 66530 WATERTN4 - 66550 GRANITF4 CKT: 1    21.9    21.9    19.3    19.3   113.0   112.9     0.1
  SINGLE 974  : 60114 ELM CRK3 - 60151 MNTCELO3 CKT: 1    22.1    22.0    19.3    19.3   113.0   112.3     0.7
  SINGLE 2188 : 63314 BIGSTON4 - 66503 BLAIR  4 CKT: 1    22.3    22.3    19.3    19.3   112.9   112.8     0.1
  SINGLE 3449 : 63314 BIGSTON4 - 63315 BIGSTN1G CKT: 1    22.3    22.2    19.3    19.3   112.6   111.9     0.7
  SINGLE 3070 : 60732 WST CLD8 - 62841 WESTWD 8 CKT: 1    21.7    21.6    19.3    19.3   110.8   110.2     0.6
  SINGLE 3084 : 60746 GLENWD 8 - 62756 LEVEN  8 CKT: 1    21.6    21.5    19.3    19.3   110.7   110.2     0.5
  SINGLE 3086 : 60747 VILLARD8 - 62756 LEVEN  8 CKT: 1    21.2    21.1    19.3    19.3   109.1   108.5     0.6
  SINGLE 1427 : 60747 VILLARD8 - 60748 WESTPRT8 CKT: 1    21.1    21.0    19.3    19.3   108.7   108.1     0.6
  SINGLE 2447 : 66503 BLAIR  4 - 66550 GRANITF4 CKT: 1    21.4    21.2    19.3    19.3   108.5   109.2    -0.7
  009   2     : ** MULTIPLE CONTINGENCY **               21.1    21.0    19.3    19.3   108.3   107.7     0.6
             : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
             : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
             : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1
             : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
             : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
             : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
             : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
  SHC-CNC/ECK3: ** MULTIPLE CONTINGENCY **               21.1    21.0    19.3    19.3   108.2   107.5     0.7
             : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
             : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1
  SINGLE 1408 : 60707 BLUEHRN8 - 60717 WAKEFLD8 CKT: 1    20.2    20.1    19.3    19.3   104.7   104.0     0.7
  SINGLE 1428 : 60748 WESTPRT8 - 60749 DGLAS C8 CKT: 1    20.6    20.5    19.3    19.3   104.6   104.0     0.6
  SINGLE 1434 : 60756 ALBANY 8 - 60757 AVON   8 CKT: 1    18.7    18.7    19.3    19.3    96.5    96.3     0.2
  SINGLE 1069 : 60156 PYNSVIL7 - 60760 PAYNES 8 CKT: P   .....    22.2   .....    19.3   .....   114.0  *ELIM*
  SINGLE 3370 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1   .....    22.3   .....    19.3   .....   115.0  *ELIM*
  690         : ** MULTIPLE CONTINGENCY **              .....    22.4   .....    19.3   .....   115.4  *ELIM*
             : 62425 WILLMAR7 - 62005 KERKHOT7 CKT: C
             : 60357 MAYNARD7 - 62005 KERKHOT7 CKT: 1
             : 62005 KERKHOT7 - 62006 KERKHO 7 CKT: 1
             : 62006 KERKHO 7 - 62001 BENSON 7 CKT: 1
  690    P1   : ** MULTIPLE CONTINGENCY **              .....    22.4   .....    19.3   .....   115.4  *ELIM*
             : 62425 WILLMAR7 - 62005 KERKHOT7 CKT: C
             : 60357 MAYNARD7 - 62005 KERKHOT7 CKT: 1
             : 62005 KERKHOT7 - 62006 KERKHO 7 CKT: 1
             : 62006 KERKHO 7 - 62001 BENSON 7 CKT: 1
  SINGLE 2915 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1   .....    24.4   .....    19.3   .....   124.5  *ELIM*

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  48) 60784 BELPLAN8 - 62675 ASSMPTN8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  SINGLE 1132 : 60194 CARVRCO7 - 60243 SCOTTAP7 CKT: 1    28.0    27.8    19.3    19.3   143.1   142.3     0.8
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    27.7    27.5    19.3    19.3   142.9   141.8     1.1
  SCO-SSK/CAR7: ** MULTIPLE CONTINGENCY **               26.7    26.6    19.3    19.3   135.6   134.8     0.8
             : 60244 SCOTTCO7 - 62975 SHAKOPE7 CKT: 1
             : 60244 SCOTTCO7 - 60243 SCOTTAP7 CKT: 1
             : 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1
             : 60243 SCOTTAP7 - 62666 GLNDALE7 CKT: 1
  CAR-WWK/AGA7: ** MULTIPLE CONTINGENCY **               25.5    25.3    19.3    19.3   131.0   130.2     0.8
             : 60194 CARVRCO7 - 60277 WWACNIA7 CKT: 1
             : 60931 CARVRCO8 - 62676 AUGUSTA8 CKT: 1
  SINGLE 3192 : 60931 CARVRCO8 - 62676 AUGUSTA8 CKT: 1    25.4    25.3    19.3    19.3   130.4   129.7     0.7
  715       2 : ** MULTIPLE CONTINGENCY **               25.5    25.4    19.3    19.3   130.2   129.4     0.8
             : 62666 GLNDALE7 - 60243 SCOTTAP7 CKT: 1
             : 60242 SAVAGE 7 - 62668 EGLCKTP7 CKT: 1
             : 62666 GLNDALE7 - 62672 GLNDALE8 CKT: 1
             : 60243 SCOTTAP7 - 60244 SCOTTCO7 CKT: 1
             : 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1
             : 60194 CARVRCO7 - 60931 CARVRCO8 CKT: 1
             : 60190 BLK DOG7 - 60242 SAVAGE 7 CKT: 1
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            : 62668 EGLCKTP7 - 62975 SHAKOPE7 CKT: 1
            : 62975 SHAKOPE7 - 60244 SCOTTCO7 CKT: 1
            : 60244 SCOTTCO7 - 60890 SCOTTCO8 CKT: 2
715       4 : ** MULTIPLE CONTINGENCY **                25.3    25.1    19.3    19.3   129.0   128.2     0.8
            : 62666 GLNDALE7 - 60243 SCOTTAP7 CKT: 1
            : 62666 GLNDALE7 - 62672 GLNDALE8 CKT: 1
            : 60243 SCOTTAP7 - 60244 SCOTTCO7 CKT: 1
            : 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1
            : 60194 CARVRCO7 - 60931 CARVRCO8 CKT: 1
SINGLE 3180 : 60890 SCOTTCO8 - 62684 MERRIAM8 CKT: 1    24.4    24.2    19.3    19.3   126.2   124.6     1.6
SINGLE 1275 : 60265 LOON TP7 - 60830 EASTWD18 CKT: P    24.4    24.2    19.3    19.3   125.1   124.4     0.7
SINGLE 475  : 34300 MONTGMY8 - 34301 NEWPRAG8 CKT: 1    24.0    23.9    19.3    19.3   123.3   122.6     0.7
SINGLE 2835 : 34300 MONTGMY8 - 34310 MONTGG19 CKT: 1    23.8    23.7    19.3    19.3   122.1   121.5     0.6
PKL-DKN/ECK3: ** MULTIPLE CONTINGENCY **                23.6    23.5    19.3    19.3   121.0   120.4     0.6
            : 60233 PARKERS3 - 60270 MPLEGV13 CKT: 1
            : 60233 PARKERS3 - 60114 ELM CRK3 CKT: 1
009   5     : ** MULTIPLE CONTINGENCY **                23.6    23.5    19.3    19.3   121.0   120.5     0.5
            : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
            : 63030 DICKNSN3 - 60270 MPLEGV13 CKT: 1
            : 60270 MPLEGV13 - 60233 PARKERS3 CKT: 1
SINGLE 1274 : 60264 LOON LK7 - 61976 LOON LK8 CKT: 1    23.5    23.4    19.3    19.3   120.5   119.8     0.7
SINGLE 2965 : 60264 LOON LK7 -  6999 WTV1     CKT: 1    23.5    23.4    19.3    19.3   120.5   119.8     0.7
SINGLE 1129 : 60193 BLUE LK7 - 60215 HYLNDLK7 CKT: 1    23.1    22.9    19.3    19.3   118.8   118.0     0.8
EDP-WSG/WSG7: ** MULTIPLE CONTINGENCY **                22.7    22.6    19.3    19.3   116.4   115.9     0.5
            : 60263 EDEN PR7 - 60256 WSTGATE7 CKT: 1
            : 60263 EDEN PR7 - 60256 WSTGATE7 CKT: 2
SINGLE 477  : 34301 NEWPRAG8 - 60936 NPRAG2T8 CKT: 1    22.6    22.5    19.3    19.3   116.3   115.6     0.7
SINGLE 474  : 34299 WASECAJ8 - 62876 FRLK TP8 CKT: 1    22.5    22.3    19.3    19.3   115.0   114.3     0.7
SINGLE 1697 : 61952 S FARIB5 - 61964 OWATNNA5 CKT: 1    22.3    22.2    19.3    19.3   114.4   113.8     0.6
SINGLE 955  : 60107 W FARIB7 - 61952 S FARIB5 CKT: 1    22.3    22.2    19.3    19.3   114.4   113.8     0.6
SINGLE 1247 : 60243 SCOTTAP7 - 60244 SCOTTCO7 CKT: 1    22.3    22.2    19.3    19.3   114.4   113.8     0.6
SINGLE 1248 : 60244 SCOTTCO7 - 60890 SCOTTCO8 CKT: 1    22.1    22.0    19.3    19.3   114.0   113.5     0.5
SINGLE 1268 : 60256 WSTGATE7 - 60894 WSTGAT28 CKT: 1    22.2    22.1    19.3    19.3   114.0   113.4     0.6
SINGLE 1529 : 60893 DEEPHVN8 - 60894 WSTGAT28 CKT: 1    22.2    22.1    19.3    19.3   114.0   113.4     0.6
SINGLE 1277 : 60270 MPLEGV13 - 63030 DICKNSN3 CKT: 1    22.2    22.1    19.3    19.3   113.8   113.2     0.6
SINGLE 1220 : 60233 PARKERS3 - 60270 MPLEGV13 CKT: 1    22.2    22.1    19.3    19.3   113.8   113.2     0.6
SINGLE 1249 : 60244 SCOTTCO7 - 60890 SCOTTCO8 CKT: 2    22.0    22.0    19.3    19.3   113.5   113.0     0.5
SINGLE 1120 : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C    22.1    22.0    19.3    19.3   113.4   112.7     0.7
SINGLE 1121 : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1    22.1    21.9    19.3    19.3   113.3   112.6     0.7
810   C1    : ** MULTIPLE CONTINGENCY **                22.1    22.0    19.3    19.3   113.3   112.7     0.6
            : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1
            : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C
CNC-KOL/TER3: ** MULTIPLE CONTINGENCY **                22.0    21.9    19.3    19.3   112.9   112.3     0.6
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
SINGLE 2950 : 60215 HYLNDLK7 - 60261 DEANLAK7 CKT: 1    21.9    21.8    19.3    19.3   112.9   112.4     0.5
022       3 : ** MULTIPLE CONTINGENCY **                22.0    21.9    19.3    19.3   112.9   112.3     0.6
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
022       1 : ** MULTIPLE CONTINGENCY **                22.0    21.9    19.3    19.3   112.8   112.2     0.6
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
            : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
            : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
            : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
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            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
HYL-BLL/DLK7: ** MULTIPLE CONTINGENCY **                21.9    21.8    19.3    19.3   112.7   112.1     0.6
            : 60215 HYLNDLK7 - 60193 BLUE LK7 CKT: 1
            : 60215 HYLNDLK7 - 60261 DEANLAK7 CKT: 1
SINGLE 476  : 34300 MONTGMY8 - 62876 FRLK TP8 CKT: 1    22.0    21.9    19.3    19.3   112.6   111.9     0.7
705       2 : ** MULTIPLE CONTINGENCY **                21.9    21.8    19.3    19.3   112.4   112.0     0.4
            : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1
            : 60233 PARKERS3 - 60262 EDEN PR3 CKT: 1
            : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 2
009   8     : ** MULTIPLE CONTINGENCY **                21.9    21.7    19.3    19.3   112.2   111.7     0.5
            : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 2966 : 60265 LOON TP7 -  6999 WTV1     CKT: 1    21.8    21.7    19.3    19.3   111.9   111.3     0.6
CNC-DKN/SHC3: ** MULTIPLE CONTINGENCY **                21.7    21.7    19.3    19.3   111.8   111.2     0.6
            : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1
            : 60202 COON CK3 - 60272 MPLEGV23 CKT: 1
715       5 : ** MULTIPLE CONTINGENCY **                21.8    21.7    19.3    19.3   111.8   111.3     0.5
            : 60190 BLK DOG7 - 60242 SAVAGE 7 CKT: 1
            : 60242 SAVAGE 7 - 62668 EGLCKTP7 CKT: 1
            : 62668 EGLCKTP7 - 62975 SHAKOPE7 CKT: 1
            : 62975 SHAKOPE7 - 60244 SCOTTCO7 CKT: 1
            : 60244 SCOTTCO7 - 60890 SCOTTCO8 CKT: 2
009   4     : ** MULTIPLE CONTINGENCY **                21.8    21.7    19.3    19.3   111.8   111.2     0.6
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 3179 : 60890 SCOTTCO8 - 60865 CHASKA 8 CKT: 1    21.7    21.6    19.3    19.3   111.4   110.6     0.8
715       1 : ** MULTIPLE CONTINGENCY **                21.8    21.7    19.3    19.3   111.4   110.9     0.5
            : 60200 BLK DG27 - 62666 GLNDALE7 CKT: 1
            : 60190 BLK DOG7 - 60242 SAVAGE 7 CKT: 1
            : 62666 GLNDALE7 - 62672 GLNDALE8 CKT: 2
            : 60242 SAVAGE 7 - 62668 EGLCKTP7 CKT: 1
            : 62668 EGLCKTP7 - 62975 SHAKOPE7 CKT: 1
            : 62975 SHAKOPE7 - 60244 SCOTTCO7 CKT: 1
            : 60244 SCOTTCO7 - 60890 SCOTTCO8 CKT: 2
SINGLE 1264 : 60256 WSTGATE7 - 60257 BLUFFCK7 CKT: 1    21.6    21.5    19.3    19.3   111.2   110.7     0.5
PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                21.9    21.8    19.3    19.3   111.0   110.5     0.5
            : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
            : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
SINGLE 1521 : 60884 YNGAMER8 - 60931 CARVRCO8 CKT: 1    21.6    21.5    19.3    19.3   110.7   110.1     0.6
SINGLE 1157 : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1    21.5    21.4    19.3    19.3   110.6   110.0     0.6
PKL-EDP/BLL3: ** MULTIPLE CONTINGENCY **                21.5    21.5    19.3    19.3   110.5   110.0     0.5
            : 60233 PARKERS3 - 60262 EDEN PR3 CKT: 1
            : 60233 PARKERS3 - 60192 BLUE LK3 CKT: 1
BASE CASE   : **       BASE CASE      **                20.4    20.3    19.3    19.3   104.7   104.1     0.6
SINGLE 2969 : 60277 WWACNIA7 - 62667 ST BONI7 CKT: 1    19.2    19.1    19.3    19.3    98.7    98.1     0.6
825         : ** MULTIPLE CONTINGENCY **                19.3    19.2    19.3    19.3    98.6    98.0     0.6
            : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
            : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
            : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1
SINGLE 1452 : 60783 JORDAN 8 - 60936 NPRAG2T8 CKT: 1    19.2    19.0    19.3    19.3    98.4    97.7     0.7
SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1    19.2    19.1    19.3    19.3    98.3    97.7     0.6
SINGLE 1401 : 60692 CYSTL T8 - 60729 GAYLORD8 CKT: 1    19.1    19.0    19.3    19.3    97.7    97.2     0.5
SINGLE 1525 : 60889 CHASKAS8 - 60890 SCOTTCO8 CKT: 1    19.1    19.0    19.3    19.3    97.7    97.2     0.5
SINGLE 1526 : 60889 CHASKAS8 - 60892 EXCELSR8 CKT: 1    19.1    19.0    19.3    19.3    97.7    97.2     0.5
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 SINGLE 1134 : 60194 CARVRCO7 - 60931 CARVRCO8 CKT: 1    18.9    18.8    19.3    19.3    97.2    96.6     0.6
 SINGLE 1135 : 60194 CARVRCO7 - 60931 CARVRCO8 CKT: P    18.9    18.9    19.3    19.3    97.2    97.0     0.2
 SINGLE 3068 : 60729 GAYLORD8 - 62078 HRTLND 8 CKT: 1    19.0    18.9    19.3    19.3    96.9    96.4     0.5
 SINGLE 1527 : 60890 SCOTTCO8 - 60896 SHAKOPE8 CKT: 1    19.0    18.9    19.3    19.3    96.9    96.4     0.5
 SINGLE 3062 : 60724 HENDRSN8 - 62674 JSNLDTP8 CKT: 1    18.9    18.6    19.3    19.3    96.9    95.6     1.3
 SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    18.9    18.8    19.3    19.3    96.7    96.3     0.4
 SCO-MRR/EXC7: ** MULTIPLE CONTINGENCY **                19.0    18.9    19.3    19.3    96.7    96.2     0.5
             : 60244 SCOTTCO7 - 60367 MNRIVER7 CKT: 1
             : 60890 SCOTTCO8 - 60889 CHASKAS8 CKT: 1
 SINGLE 3021 : 60650 WILMART8 - 62336 JHNSNTP8 CKT: 1    18.8    18.7    19.3    19.3    96.3    95.8     0.5
 SINGLE 1454 : 60785 NPRAG T8 - 61978 NEW PRAG CKT: 1    18.6    18.5    19.3    19.3    95.6    95.0     0.6
 SINGLE 3061 : 60724 HENDRSN8 - 60868 LESR TP8 CKT: 1    18.6    18.5    19.3    19.3    95.4    95.2     0.2
 SINGLE 1696 : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1    18.2    18.1    19.3    19.3    93.6    92.9     0.7
 BYN-WOW/KAN5: ** MULTIPLE CONTINGENCY **                18.2    18.1    19.3    19.3    93.5    92.8     0.7
             : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1
             : 61161 BYRON  8 - 60799 KASSON 8 CKT: 1
 SINGLE 1453 : 60785 NPRAG T8 - 60936 NPRAG2T8 CKT: 1    17.9    17.8    19.3    19.3    91.7    91.1     0.6
 SINGLE 1997 : 62925 DICKNSN7 - 63030 DICKNSN3 CKT: 1    17.6   .....    19.3   .....    90.4   .....   *NEW*

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 49) 60786 DUNDAS 8 - 60788 VALLYTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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 SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    75.5    74.7    48.0    48.0   160.5   158.9     1.6
 SINGLE 1696 : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1    62.1    61.7    48.0    48.0   131.0   130.2     0.8
 BYN-WOW/KAN5: ** MULTIPLE CONTINGENCY **                62.0    61.6    48.0    48.0   130.8   130.0     0.8
             : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1
             : 61161 BYRON  8 - 60799 KASSON 8 CKT: 1
 SINGLE 1697 : 61952 S FARIB5 - 61964 OWATNNA5 CKT: 1    61.7    61.3    48.0    48.0   130.2   129.4     0.8
 SINGLE 955  : 60107 W FARIB7 - 61952 S FARIB5 CKT: 1    61.7    61.3    48.0    48.0   130.2   129.4     0.8
 700    1    : ** MULTIPLE CONTINGENCY **                56.5    56.2    48.0    48.0   119.1   118.5     0.6
             : 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1
             : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
             : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1
 SINGLE 947  : 60105 PR ISLD3 - 60106 PR ISLD5 CKT: 1    54.9    54.6    48.0    48.0   117.0   116.2     0.8
 SINGLE 1463 : 60791 FARIBLT8 - 60794 NRSTRND8 CKT: P    55.7    55.3    48.0    48.0   117.0   116.2     0.8
 SINGLE 2899 : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1    54.8    54.5    48.0    48.0   116.8   116.1     0.7
 IVH-BLL/RRK3: ** MULTIPLE CONTINGENCY **                55.2    54.9    48.0    48.0   116.4   115.6     0.8
             : 60217 INVRHLS3 - 60192 BLUE LK3 CKT: 1
             : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1
 SINGLE 3115 : 60794 NRSTRND8 - 62389 KENYON 8 CKT: 1    55.2    54.9    48.0    48.0   116.1   115.2     0.9
 SINGLE 3117 : 60797 KENYNTP8 - 62389 KENYON 8 CKT: 1    55.0    54.7    48.0    48.0   115.6   114.8     0.8
 SPC-PRI/CTF5: ** MULTIPLE CONTINGENCY **                54.1    53.6    48.0    48.0   115.2   114.3     0.9
             : 63071 SPRNGCK5 - 60106 PR ISLD5 CKT: 1
             : 63071 SPRNGCK5 - 60103 CANNFLS5 CKT: 1
 740    1    : ** MULTIPLE CONTINGENCY **                54.1    53.6    48.0    48.0   115.2   114.3     0.9
             : 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1
             : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1
             : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1
 SINGLE 3185 : 60905 FRMNGTN8 - 62259 LKMARN 8 CKT: 1    53.8    53.5    48.0    48.0   114.8   114.1     0.7
 SINGLE 1466 : 60796 KENYON 8 - 60797 KENYNTP8 CKT: 1    54.3    53.9    48.0    48.0   114.0   113.2     0.8
 SINGLE 1196 : 60217 INVRHLS3 - 60218 INVRHLS7 CKT: 1    54.1    53.8    48.0    48.0   114.0   113.3     0.7
 SINGLE 1467 : 60796 KENYON 8 - 60819 CHERYTP8 CKT: 1    53.8    53.5    48.0    48.0   113.1   112.3     0.8
 SINGLE 2924 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    53.7    53.4    48.0    48.0   112.9   112.2     0.7
 BLL-PRI/IVH3: ** MULTIPLE CONTINGENCY **                53.4    53.1    48.0    48.0   112.5   111.7     0.8
             : 60192 BLUE LK3 - 60105 PR ISLD3 CKT: 1
             : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
 SINGLE 1478 : 60818 ZUMBRTA8 - 60819 CHERYTP8 CKT: 1    53.5    53.1    48.0    48.0   112.3   111.5     0.8
 SINGLE 946  : 60104 CANNFLS7 - 60801 CNFLSTR8 CKT: 1    52.7    52.4    48.0    48.0   111.9   111.1     0.8
 SINGLE 3361 : 61948 BYRON  5 - 61906 MAPLE LF CKT: 1    52.5    52.2    48.0    48.0   110.3   109.6     0.7
 SINGLE 2897 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1    52.4    52.0    48.0    48.0   110.1   109.4     0.7
 SINGLE 2898 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1    52.4    52.0    48.0    48.0   110.1   109.4     0.7
 SINGLE 2922 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1    52.2    51.8    48.0    48.0   109.6   108.9     0.7
 SINGLE 2917 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1    52.1    51.8    48.0    48.0   109.5   108.8     0.7
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SINGLE 2923 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1    52.1    51.8    48.0    48.0   109.4   108.7     0.7
SINGLE 1457 : 60787 NOFIELD8 - 60801 CNFLSTR8 CKT: 1    51.3    51.0    48.0    48.0   109.2   108.5     0.7
SINGLE 2934 : 60186 AS KING3 - 60006 KING 31G CKT: 1    51.7    51.4    48.0    48.0   108.4   107.7     0.7
SINGLE 1126 : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1    51.5    51.2    48.0    48.0   108.2   107.6     0.6
SINGLE 3010 : 60342 WHAST  7 - 62258 WHASTNG8 CKT: 1    51.3    51.0    48.0    48.0   107.8   107.1     0.7
SINGLE 964  : 60110 WILMART7 - 60194 CARVRCO7 CKT: 1    51.1    50.8    48.0    48.0   107.3   106.6     0.7
715       4 : ** MULTIPLE CONTINGENCY **                51.0    50.7    48.0    48.0   107.2   106.5     0.7
            : 62666 GLNDALE7 - 60243 SCOTTAP7 CKT: 1
            : 62666 GLNDALE7 - 62672 GLNDALE8 CKT: 1
            : 60243 SCOTTAP7 - 60244 SCOTTCO7 CKT: 1
            : 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1
            : 60194 CARVRCO7 - 60931 CARVRCO8 CKT: 1
SINGLE 3393 : 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1    51.0    50.7    48.0    48.0   107.1   106.3     0.8
SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1    50.8    50.5    48.0    48.0   106.8   106.0     0.8
SINGLE 3112 : 60789 CIRCLTP8 - 62872 FARIBLT8 CKT: 1    51.0    50.7    48.0    48.0   106.7   106.0     0.7
SINGLE 945  : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1    50.3    50.0    48.0    48.0   106.6   105.9     0.7
SINGLE 2895 : 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1    50.3    50.0    48.0    48.0   106.6   105.9     0.7
740     2   : ** MULTIPLE CONTINGENCY **                50.3    50.0    48.0    48.0   106.6   105.9     0.7
            : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1
            : 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1
SINGLE 1121 : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1    50.7    50.3    48.0    48.0   106.4   105.6     0.8
SINGLE 2938 : 60200 BLK DG27 - 60013 BLK D73G CKT: 1    50.6    50.4    48.0    48.0   106.4   105.9     0.5
795         : ** MULTIPLE CONTINGENCY **                50.7    50.4    48.0    48.0   106.4   105.7     0.7
            : 66550 GRANITF4 - 60150 MNVLTAP4 CKT: 1
            : 60148 MINVALY7 - 60149 MINVALT4 CKT: C
            : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1
            : 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1
            : 63054 PANTHER4 - 60742 PANTHER8 CKT: 1
810    C1   : ** MULTIPLE CONTINGENCY **                50.7    50.3    48.0    48.0   106.4   105.6     0.8
            : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1
            : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C
SCO-SSK/CAR7: ** MULTIPLE CONTINGENCY **                50.6    50.3    48.0    48.0   106.4   105.7     0.7
            : 60244 SCOTTCO7 - 62975 SHAKOPE7 CKT: 1
            : 60244 SCOTTCO7 - 60243 SCOTTAP7 CKT: 1
            : 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1
            : 60243 SCOTTAP7 - 62666 GLNDALE7 CKT: 1
715       2 : ** MULTIPLE CONTINGENCY **                50.6    50.3    48.0    48.0   106.3   105.6     0.7
            : 62666 GLNDALE7 - 60243 SCOTTAP7 CKT: 1
            : 60242 SAVAGE 7 - 62668 EGLCKTP7 CKT: 1
            : 62666 GLNDALE7 - 62672 GLNDALE8 CKT: 1
            : 60243 SCOTTAP7 - 60244 SCOTTCO7 CKT: 1
            : 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1
            : 60194 CARVRCO7 - 60931 CARVRCO8 CKT: 1
            : 60190 BLK DOG7 - 60242 SAVAGE 7 CKT: 1
            : 62668 EGLCKTP7 - 62975 SHAKOPE7 CKT: 1
            : 62975 SHAKOPE7 - 60244 SCOTTCO7 CKT: 1
            : 60244 SCOTTCO7 - 60890 SCOTTCO8 CKT: 2
SINGLE 1120 : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C    50.7    50.3    48.0    48.0   106.3   105.6     0.7
SINGLE 1199 : 60218 INVRHLS7 - 60223 KOCHREF7 CKT: 1    50.6    50.3    48.0    48.0   106.3   105.6     0.7
022       1 : ** MULTIPLE CONTINGENCY **                50.6    50.2    48.0    48.0   106.2   105.5     0.7
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
            : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
            : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
            : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
SINGLE 2958 : 60240 RIVRSID7 - 60008 RIVRS78G CKT: 1    50.6    50.3    48.0    48.0   106.2   105.6     0.6
022       3 : ** MULTIPLE CONTINGENCY **                50.4    50.1    48.0    48.0   105.9   105.2     0.7
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
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             : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
             : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
             : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
             : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
             : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
CNC-KOL/TER3: ** MULTIPLE CONTINGENCY **                 50.4    50.0    48.0    48.0   105.8   105.1     0.7
             : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
             : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
SINGLE 2916 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1     50.3    50.0    48.0    48.0   105.7   104.9     0.8
SINGLE 33   : 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1     50.3    50.0    48.0    48.0   105.6   104.9     0.7
RRK-ASK/CGR7: ** MULTIPLE CONTINGENCY **                 50.2    49.9    48.0    48.0   105.6   104.8     0.8
             : 60236 REDROCK3 - 60186 AS KING3 CKT: 1
             : 60238 REDROCK7 - 60204 COTTAGE7 CKT: 1
SINGLE 2948 : 60214 HIBRDGE7 - 60010 HIBRD76G CKT: 1     50.3    50.0    48.0    48.0   105.5   104.8     0.7
SINGLE 3141 : 60817 BURNSID8 - 62387 SPRNGCK8 CKT: 1     50.2    49.8    48.0    48.0   105.5   104.7     0.8
SINGLE 2968 : 60276 AIRLAKE7 - 62234 LKMARN 7 CKT: 1     50.2    49.9    48.0    48.0   105.4   104.7     0.7
SINGLE 3150 : 60826 TRAVRSE8 - 62350 TRAVERS8 CKT: 1     50.1   .....    48.0   .....   105.2   .....   *NEW*
BASE CASE   : **       BASE CASE      **                 49.1    48.8    48.0    48.0   103.1   102.4     0.7
SINGLE 1481 : 60823 REDWING8 - 60824 FRONTNC8 CKT: 1     48.1    47.8    48.0    48.0   100.9   100.2     0.7
SINGLE 20   : 34006 LAKEFLD3 - 60286 NOBLES 3 CKT: C     48.1    47.8    48.0    48.0   100.8   100.1     0.7
SINGLE 3114 : 60793 MORISTN8 - 62875 WARSAW 8 CKT: 1     48.0    47.6    48.0    48.0   100.6    99.9     0.7
SINGLE 1471 : 60801 CNFLSTR8 - 60802 CANFLS 8 CKT: 1     47.9    47.6    48.0    48.0   100.5    99.8     0.7
SINGLE 1001 : 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1     47.8    47.5    48.0    48.0   100.2    99.5     0.7
SINGLE 1008 : 60130 SPLTRTA3 - 66537 WHITE  3 CKT: 1     47.8    47.5    48.0    48.0   100.2    99.5     0.7
SINGLE 1530 : 60897 LEBNON 8 - 60905 FRMNGTN8 CKT: 1     48.0    47.6    48.0    48.0   100.2    99.5     0.7
SINGLE 972  : 60113 DOME   7 - 60830 EASTWD18 CKT: P     47.7    47.4    48.0    48.0   100.1    99.4     0.7
SINGLE 963  : 60110 WILMART7 - 60113 DOME   7 CKT: C     47.7    47.4    48.0    48.0   100.0    99.3     0.7
SINGLE 1464 : 60793 MORISTN8 - 60805 WATRVIL8 CKT: 1     47.6    47.3    48.0    48.0    99.8    99.1     0.7
SINGLE 3126 : 60808 EAGLELK8 - 62347 EAGLELK8 CKT: 1     47.6    47.2    48.0    48.0    99.7    99.0     0.7
SINGLE 3154 : 60831 EASTWD28 - 62347 EAGLELK8 CKT: 1     47.5    47.1    48.0    48.0    99.5    98.7     0.8
SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1     47.4    47.1    48.0    48.0    99.3    98.6     0.7
SINGLE 2901 : 60108 WILMART3 -  8001 G261-ST  CKT: 1     47.2    46.9    48.0    48.0    99.0    98.3     0.7
SINGLE 1375 : 60650 WILMART8 - 60831 EASTWD28 CKT: 1     47.2    46.9    48.0    48.0    98.9    98.2     0.7
SINGLE 1460 : 60790 FAIRPRK8 - 60791 FARIBLT8 CKT: 1     47.1    46.8    48.0    48.0    98.9    98.2     0.7
SINGLE 2902 : 60110 WILMART7 -  8006 G261-CT1 CKT: 1     47.1    46.8    48.0    48.0    98.8    98.1     0.7
SINGLE 2903 : 60110 WILMART7 -  8007 G261-CT2 CKT: 1     47.1    46.8    48.0    48.0    98.8    98.1     0.7
SINGLE 3184 : 60905 FRMNGTN8 - 62256 CSTL RK8 CKT: 1     46.2    45.9    48.0    48.0    97.9    97.2     0.7
SINGLE 953  : 60107 W FARIB7 - 60792 WFARBLT8 CKT: 1     46.6    46.3    48.0    48.0    97.7    97.0     0.7
SINGLE 968  : 60110 WILMART7 - 60830 EASTWD18 CKT: P     46.4    46.1    48.0    48.0    97.3    96.7     0.6
SINGLE 3124 : 60805 WATRVIL8 - 62679 ELYSNTP8 CKT: 1     46.3    46.0    48.0    48.0    97.0    96.4     0.6
SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1     46.2    45.9    48.0    48.0    96.7    96.1     0.6
050    3    : ** MULTIPLE CONTINGENCY **                 46.1    45.9    48.0    48.0    96.7    96.1     0.6
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
SINGLE 3128 : 60808 EAGLELK8 - 62679 ELYSNTP8 CKT: 1     46.0    45.7    48.0    48.0    96.4    95.7     0.7
SINGLE 1462 : 60791 FARIBLT8 - 60792 WFARBLT8 CKT: 1     44.7    44.4    48.0    48.0    94.2    93.5     0.7
SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1     45.0    44.8    48.0    48.0    94.1    93.7     0.4
ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                 44.8    44.5    48.0    48.0    93.8    93.2     0.6
             : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
SINGLE 3110 : 60787 NOFIELD8 - 62256 CSTL RK8 CKT: 1     44.2    43.9    48.0    48.0    93.4    92.7     0.7
050    2    : ** MULTIPLE CONTINGENCY **                 44.3    43.8    48.0    48.0    92.7    91.6     1.1
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
050    1    : ** MULTIPLE CONTINGENCY **                 44.0    43.7    48.0    48.0    92.1    91.5     0.6
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
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 SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    43.7    43.5    48.0    48.0    91.5    91.1     0.4
 SINGLE 1695 : 61948 BYRON  5 - 61950 BYRON  3 CKT: 1    43.2   .....    48.0   .....    90.4   .....   *NEW*

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 50) 60788 VALLYTP8 - 60789 CIRCLTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
 SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    77.5    76.7    48.0    48.0   164.3   162.7     1.6
 SINGLE 1696 : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1    64.0    63.7    48.0    48.0   134.9   134.1     0.8
 BYN-WOW/KAN5: ** MULTIPLE CONTINGENCY **                63.9    63.6    48.0    48.0   134.7   133.9     0.8
             : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1
             : 61161 BYRON  8 - 60799 KASSON 8 CKT: 1
 SINGLE 1697 : 61952 S FARIB5 - 61964 OWATNNA5 CKT: 1    63.7    63.3    48.0    48.0   134.1   133.3     0.8
 SINGLE 955  : 60107 W FARIB7 - 61952 S FARIB5 CKT: 1    63.7    63.3    48.0    48.0   134.1   133.2     0.9
 700    1    : ** MULTIPLE CONTINGENCY **                58.5    58.1    48.0    48.0   123.0   122.4     0.6
             : 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1
             : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
             : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1
 SINGLE 947  : 60105 PR ISLD3 - 60106 PR ISLD5 CKT: 1    56.9    56.6    48.0    48.0   121.0   120.3     0.7
 SINGLE 2899 : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1    56.9    56.6    48.0    48.0   120.9   120.2     0.7
 SINGLE 1463 : 60791 FARIBLT8 - 60794 NRSTRND8 CKT: P    57.6    57.2    48.0    48.0   120.8   120.0     0.8
 IVH-BLL/RRK3: ** MULTIPLE CONTINGENCY **                57.2    56.8    48.0    48.0   120.3   119.5     0.8
             : 60217 INVRHLS3 - 60192 BLUE LK3 CKT: 1
             : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1
 SINGLE 3115 : 60794 NRSTRND8 - 62389 KENYON 8 CKT: 1    57.2    56.8    48.0    48.0   119.9   119.1     0.8
 SINGLE 3117 : 60797 KENYNTP8 - 62389 KENYON 8 CKT: 1    57.0    56.6    48.0    48.0   119.4   118.6     0.8
 SPC-PRI/CTF5: ** MULTIPLE CONTINGENCY **                56.2    55.7    48.0    48.0   119.3   118.4     0.9
             : 63071 SPRNGCK5 - 60106 PR ISLD5 CKT: 1
             : 63071 SPRNGCK5 - 60103 CANNFLS5 CKT: 1
 740    1    : ** MULTIPLE CONTINGENCY **                56.2    55.7    48.0    48.0   119.3   118.4     0.9
             : 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1
             : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1
             : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1
 SINGLE 3185 : 60905 FRMNGTN8 - 62259 LKMARN 8 CKT: 1    56.0    55.6    48.0    48.0   119.0   118.3     0.7
 SINGLE 1196 : 60217 INVRHLS3 - 60218 INVRHLS7 CKT: 1    56.1    55.7    48.0    48.0   118.0   117.2     0.8
 SINGLE 1466 : 60796 KENYON 8 - 60797 KENYNTP8 CKT: 1    56.2    55.9    48.0    48.0   117.9   117.1     0.8
 SINGLE 1467 : 60796 KENYON 8 - 60819 CHERYTP8 CKT: 1    55.8    55.4    48.0    48.0   116.9   116.1     0.8
 SINGLE 2924 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    55.6    55.3    48.0    48.0   116.7   116.1     0.6
 BLL-PRI/IVH3: ** MULTIPLE CONTINGENCY **                55.4    55.0    48.0    48.0   116.3   115.5     0.8
             : 60192 BLUE LK3 - 60105 PR ISLD3 CKT: 1
             : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
 SINGLE 1478 : 60818 ZUMBRTA8 - 60819 CHERYTP8 CKT: 1    55.4    55.1    48.0    48.0   116.1   115.3     0.8
 SINGLE 946  : 60104 CANNFLS7 - 60801 CNFLSTR8 CKT: 1    54.8    54.4    48.0    48.0   115.9   115.2     0.7
 SINGLE 3361 : 61948 BYRON  5 - 61906 MAPLE LF CKT: 1    54.4    54.1    48.0    48.0   114.1   113.4     0.7
 SINGLE 2897 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1    54.3    54.0    48.0    48.0   113.9   113.2     0.7
 SINGLE 2898 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1    54.3    54.0    48.0    48.0   113.9   113.2     0.7
 SINGLE 2917 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1    54.1    53.7    48.0    48.0   113.4   112.7     0.7
 SINGLE 2922 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1    54.1    53.8    48.0    48.0   113.4   112.7     0.7
 SINGLE 1457 : 60787 NOFIELD8 - 60801 CNFLSTR8 CKT: 1    53.4    53.1    48.0    48.0   113.3   112.6     0.7
 SINGLE 2923 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1    54.0    53.7    48.0    48.0   113.3   112.6     0.7
 SINGLE 2934 : 60186 AS KING3 - 60006 KING 31G CKT: 1    53.6    53.3    48.0    48.0   112.2   111.5     0.7
 SINGLE 1126 : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1    53.5    53.2    48.0    48.0   112.0   111.4     0.6
 SINGLE 3010 : 60342 WHAST  7 - 62258 WHASTNG8 CKT: 1    53.3    52.9    48.0    48.0   111.7   111.0     0.7
 SINGLE 964  : 60110 WILMART7 - 60194 CARVRCO7 CKT: 1    53.1    52.7    48.0    48.0   111.2   110.4     0.8
 715       4 : ** MULTIPLE CONTINGENCY **                53.0    52.6    48.0    48.0   111.1   110.3     0.8
             : 62666 GLNDALE7 - 60243 SCOTTAP7 CKT: 1
             : 62666 GLNDALE7 - 62672 GLNDALE8 CKT: 1
             : 60243 SCOTTAP7 - 60244 SCOTTCO7 CKT: 1
             : 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1
             : 60194 CARVRCO7 - 60931 CARVRCO8 CKT: 1
 SINGLE 3393 : 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1    52.9    52.6    48.0    48.0   110.9   110.2     0.7
 SINGLE 945  : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1    52.4    52.1    48.0    48.0   110.6   109.9     0.7
 SINGLE 2895 : 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1    52.4    52.1    48.0    48.0   110.6   109.9     0.7
 SINGLE 3112 : 60789 CIRCLTP8 - 62872 FARIBLT8 CKT: 1    53.0    52.7    48.0    48.0   110.6   109.9     0.7
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740     2    : ** MULTIPLE CONTINGENCY **                52.4    52.1    48.0    48.0   110.6   109.9     0.7
             : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1
             : 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1
SINGLE 29    : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1    52.8    52.4    48.0    48.0   110.6   109.9     0.7
SCO-SSK/CAR7: ** MULTIPLE CONTINGENCY **                 52.6    52.3    48.0    48.0   110.3   109.6     0.7
             : 60244 SCOTTCO7 - 62975 SHAKOPE7 CKT: 1
             : 60244 SCOTTCO7 - 60243 SCOTTAP7 CKT: 1
             : 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1
             : 60243 SCOTTAP7 - 62666 GLNDALE7 CKT: 1
SINGLE 2938 : 60200 BLK DG27 - 60013 BLK D73G CKT: 1    52.6    52.3    48.0    48.0   110.3   109.8     0.5
795          : ** MULTIPLE CONTINGENCY **                52.6    52.3    48.0    48.0   110.3   109.5     0.8
             : 66550 GRANITF4 - 60150 MNVLTAP4 CKT: 1
             : 60148 MINVALY7 - 60149 MINVALT4 CKT: C
             : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1
             : 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1
             : 63054 PANTHER4 - 60742 PANTHER8 CKT: 1
SINGLE 1121 : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1    52.6    52.3    48.0    48.0   110.2   109.5     0.7
SINGLE 1199 : 60218 INVRHLS7 - 60223 KOCHREF7 CKT: 1    52.5    52.2    48.0    48.0   110.2   109.5     0.7
715        2 : ** MULTIPLE CONTINGENCY **                52.6    52.2    48.0    48.0   110.2   109.5     0.7
             : 62666 GLNDALE7 - 60243 SCOTTAP7 CKT: 1
             : 60242 SAVAGE 7 - 62668 EGLCKTP7 CKT: 1
             : 62666 GLNDALE7 - 62672 GLNDALE8 CKT: 1
             : 60243 SCOTTAP7 - 60244 SCOTTCO7 CKT: 1
             : 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1
             : 60194 CARVRCO7 - 60931 CARVRCO8 CKT: 1
             : 60190 BLK DOG7 - 60242 SAVAGE 7 CKT: 1
             : 62668 EGLCKTP7 - 62975 SHAKOPE7 CKT: 1
             : 62975 SHAKOPE7 - 60244 SCOTTCO7 CKT: 1
             : 60244 SCOTTCO7 - 60890 SCOTTCO8 CKT: 2
810    C1    : ** MULTIPLE CONTINGENCY **                52.6    52.3    48.0    48.0   110.2   109.5     0.7
             : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1
             : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C
SINGLE 1120 : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C    52.6    52.3    48.0    48.0   110.2   109.5     0.7
022        1 : ** MULTIPLE CONTINGENCY **                52.5    52.2    48.0    48.0   110.1   109.4     0.7
             : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
             : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
             : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
             : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
             : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
             : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
             : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
             : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
             : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
             : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
SINGLE 2958 : 60240 RIVRSID7 - 60008 RIVRS78G CKT: 1    52.5    52.2    48.0    48.0   110.0   109.5     0.5
022        3 : ** MULTIPLE CONTINGENCY **                52.4    52.0    48.0    48.0   109.8   109.1     0.7
             : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
             : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
             : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
             : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
             : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
             : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
CNC-KOL/TER3: ** MULTIPLE CONTINGENCY **                 52.3    52.0    48.0    48.0   109.7   109.0     0.7
             : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
             : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
SINGLE 2916 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1    52.3    52.0    48.0    48.0   109.5   108.8     0.7
SINGLE 33    : 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1    52.3    51.9    48.0    48.0   109.5   108.8     0.7
RRK-ASK/CGR7: ** MULTIPLE CONTINGENCY **                 52.2    51.8    48.0    48.0   109.5   108.7     0.8
             : 60236 REDROCK3 - 60186 AS KING3 CKT: 1
             : 60238 REDROCK7 - 60204 COTTAGE7 CKT: 1
SINGLE 3141 : 60817 BURNSID8 - 62387 SPRNGCK8 CKT: 1    52.1    51.8    48.0    48.0   109.4   108.6     0.8
SINGLE 2948 : 60214 HIBRDGE7 - 60010 HIBRD76G CKT: 1    52.2    51.9    48.0    48.0   109.3   108.6     0.7
SINGLE 2968 : 60276 AIRLAKE7 - 62234 LKMARN 7 CKT: 1    52.1    51.8    48.0    48.0   109.2   108.5     0.7
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SINGLE 3150 : 60826 TRAVRSE8 - 62350 TRAVERS8 CKT: 1    52.1   .....    48.0   .....   109.1   .....   *NEW*
BASE CASE   : **       BASE CASE      **                51.1    50.7    48.0    48.0   106.9   106.2     0.7
SINGLE 1481 : 60823 REDWING8 - 60824 FRONTNC8 CKT: 1    50.0    49.7    48.0    48.0   104.8   104.1     0.7
SINGLE 20   : 34006 LAKEFLD3 - 60286 NOBLES 3 CKT: C    50.0    49.7    48.0    48.0   104.7   104.0     0.7
SINGLE 3114 : 60793 MORISTN8 - 62875 WARSAW 8 CKT: 1    49.9    49.6    48.0    48.0   104.4   103.8     0.6
SINGLE 1471 : 60801 CNFLSTR8 - 60802 CANFLS 8 CKT: 1    49.9    49.5    48.0    48.0   104.3   103.6     0.7
SINGLE 1001 : 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1    49.7    49.4    48.0    48.0   104.1   103.4     0.7
SINGLE 1008 : 60130 SPLTRTA3 - 66537 WHITE  3 CKT: 1    49.7    49.4    48.0    48.0   104.1   103.4     0.7
SINGLE 1530 : 60897 LEBNON 8 - 60905 FRMNGTN8 CKT: 1    49.8    49.5    48.0    48.0   104.0   103.3     0.7
SINGLE 972  : 60113 DOME   7 - 60830 EASTWD18 CKT: P    49.7    49.3    48.0    48.0   103.9   103.2     0.7
SINGLE 963  : 60110 WILMART7 - 60113 DOME   7 CKT: C    49.6    49.3    48.0    48.0   103.9   103.2     0.7
SINGLE 1464 : 60793 MORISTN8 - 60805 WATRVIL8 CKT: 1    49.5    49.2    48.0    48.0   103.7   103.0     0.7
SINGLE 3126 : 60808 EAGLELK8 - 62347 EAGLELK8 CKT: 1    49.5    49.2    48.0    48.0   103.6   102.9     0.7
SINGLE 3154 : 60831 EASTWD28 - 62347 EAGLELK8 CKT: 1    49.4    49.0    48.0    48.0   103.4   102.6     0.8
SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1    49.3    49.0    48.0    48.0   103.2   102.4     0.8
SINGLE 1375 : 60650 WILMART8 - 60831 EASTWD28 CKT: 1    49.1    48.8    48.0    48.0   102.8   102.1     0.7
SINGLE 2901 : 60108 WILMART3 -  8001 G261-ST  CKT: 1    49.2    48.8    48.0    48.0   102.8   102.1     0.7
SINGLE 1460 : 60790 FAIRPRK8 - 60791 FARIBLT8 CKT: 1    49.0    48.7    48.0    48.0   102.7   102.0     0.7
SINGLE 2902 : 60110 WILMART7 -  8006 G261-CT1 CKT: 1    49.1    48.8    48.0    48.0   102.7   102.0     0.7
SINGLE 2903 : 60110 WILMART7 -  8007 G261-CT2 CKT: 1    49.1    48.8    48.0    48.0   102.7   102.0     0.7
SINGLE 3184 : 60905 FRMNGTN8 - 62256 CSTL RK8 CKT: 1    48.3    48.0    48.0    48.0   102.0   101.3     0.7
SINGLE 953  : 60107 W FARIB7 - 60792 WFARBLT8 CKT: 1    48.5    48.2    48.0    48.0   101.5   100.9     0.6
SINGLE 968  : 60110 WILMART7 - 60830 EASTWD18 CKT: P    48.4    48.1    48.0    48.0   101.2   100.5     0.7
SINGLE 3124 : 60805 WATRVIL8 - 62679 ELYSNTP8 CKT: 1    48.2    47.9    48.0    48.0   100.9   100.3     0.6
SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1    48.1    47.8    48.0    48.0   100.6    99.9     0.7
050    3    : ** MULTIPLE CONTINGENCY **                48.1    47.8    48.0    48.0   100.5    99.9     0.6
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 39901 COC DPC  - 38342 COC 69   CKT: 1
            : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
SINGLE 3128 : 60808 EAGLELK8 - 62679 ELYSNTP8 CKT: 1    47.9    47.6    48.0    48.0   100.3    99.6     0.7
SINGLE 1462 : 60791 FARIBLT8 - 60792 WFARBLT8 CKT: 1    46.6    46.3    48.0    48.0    98.0    97.4     0.6
SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1    46.9    46.7    48.0    48.0    98.0    97.6     0.4
ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                46.7    46.4    48.0    48.0    97.6    97.0     0.6
            : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
SINGLE 3110 : 60787 NOFIELD8 - 62256 CSTL RK8 CKT: 1    46.2    45.9    48.0    48.0    97.5    96.8     0.7
050    2    : ** MULTIPLE CONTINGENCY **                46.2    45.7    48.0    48.0    96.5    95.5     1.0
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
050    1    : ** MULTIPLE CONTINGENCY **                45.9    45.7    48.0    48.0    96.0    95.4     0.6
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
            : 39901 COC DPC  - 38342 COC 69   CKT: 1
            : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    45.6    45.5    48.0    48.0    95.4    95.0     0.4
SINGLE 1695 : 61948 BYRON  5 - 61950 BYRON  3 CKT: 1    45.1    44.8    48.0    48.0    94.2    93.6     0.6
SINGLE 1461 : 60790 FAIRPRK8 - 60792 WFARBLT8 CKT: 1    43.4    43.2    48.0    48.0    92.3    91.7     0.6

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51) 60789 CIRCLTP8 - 60790 FAIRPRK8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    84.7    83.8    48.0    48.0   173.9   172.3     1.6
SINGLE 1696 : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1    70.5    70.1    48.0    48.0   144.5   143.6     0.9
BYN-WOW/KAN5: ** MULTIPLE CONTINGENCY **                70.4    70.0    48.0    48.0   144.3   143.4     0.9
            : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1
            : 61161 BYRON  8 - 60799 KASSON 8 CKT: 1
SINGLE 1697 : 61952 S FARIB5 - 61964 OWATNNA5 CKT: 1    70.1    69.7    48.0    48.0   143.6   142.8     0.8
SINGLE 955  : 60107 W FARIB7 - 61952 S FARIB5 CKT: 1    70.1    69.7    48.0    48.0   143.6   142.8     0.8
700    1    : ** MULTIPLE CONTINGENCY **                64.8    64.4    48.0    48.0   132.7   132.0     0.7
            : 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1
```

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            : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
            : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1
SINGLE 947  : 60105 PR ISLD3 - 60106 PR ISLD5 CKT: 1    63.7    63.4    48.0    48.0   131.1   130.3     0.8
SINGLE 2899 : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1    63.7    63.3    48.0    48.0   131.0   130.3     0.7
SINGLE 1463 : 60791 FARIBLT8 - 60794 NRSTRND8 CKT: P    63.7    63.3    48.0    48.0   130.3   129.5     0.8
IVH-BLL/RRK3: ** MULTIPLE CONTINGENCY **                63.4    63.1    48.0    48.0   130.0   129.2     0.8
            : 60217 INVRHLS3 - 60192 BLUE LK3 CKT: 1
            : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1
SPC-PRI/CTF5: ** MULTIPLE CONTINGENCY **                62.9    62.4    48.0    48.0   129.4   128.5     0.9
            : 63071 SPRNGCK5 - 60106 PR ISLD5 CKT: 1
            : 63071 SPRNGCK5 - 60103 CANNFLS5 CKT: 1
SINGLE 3115 : 60794 NRSTRND8 - 62389 KENYON 8 CKT: 1    63.3    62.9    48.0    48.0   129.4   128.6     0.8
740    1    : ** MULTIPLE CONTINGENCY **                62.9    62.4    48.0    48.0   129.4   128.5     0.9
            : 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1
            : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1
            : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1
SINGLE 3185 : 60905 FRMNGTN8 - 62259 LKMARN 8 CKT: 1    62.9    62.6    48.0    48.0   129.2   128.5     0.7
SINGLE 3117 : 60797 KENYNTP8 - 62389 KENYON 8 CKT: 1    63.0    62.6    48.0    48.0   128.9   128.1     0.8
SINGLE 1196 : 60217 INVRHLS3 - 60218 INVRHLS7 CKT: 1    62.3    62.0    48.0    48.0   127.6   126.9     0.7
SINGLE 1466 : 60796 KENYON 8 - 60797 KENYNTP8 CKT: 1    62.2    61.8    48.0    48.0   127.4   126.5     0.9
SINGLE 1467 : 60796 KENYON 8 - 60819 CHERYTP8 CKT: 1    61.8    61.4    48.0    48.0   126.4   125.6     0.8
SINGLE 2924 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    61.7    61.4    48.0    48.0   126.3   125.6     0.7
BLL-PRI/IVH3: ** MULTIPLE CONTINGENCY **                61.5    61.1    48.0    48.0   125.9   125.1     0.8
            : 60192 BLUE LK3 - 60105 PR ISLD3 CKT: 1
            : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
SINGLE 946  : 60104 CANNFLS7 - 60801 CNFLSTR8 CKT: 1    61.4    61.0    48.0    48.0   125.9   125.2     0.7
SINGLE 1478 : 60818 ZUMBRTA8 - 60819 CHERYTP8 CKT: 1    61.4    61.0    48.0    48.0   125.6   124.8     0.8
SINGLE 3361 : 61948 BYRON  5 - 61906 MAPLE LF CKT: 1    60.4    60.1    48.0    48.0   123.7   123.0     0.7
SINGLE 2897 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1    60.3    60.0    48.0    48.0   123.5   122.8     0.7
SINGLE 2898 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1    60.3    60.0    48.0    48.0   123.5   122.8     0.7
SINGLE 1457 : 60787 NOFIELD8 - 60801 CNFLSTR8 CKT: 1    60.1    59.8    48.0    48.0   123.4   122.8     0.6
SINGLE 2922 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1    60.1    59.7    48.0    48.0   123.0   122.3     0.7
SINGLE 2917 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1    60.1    59.7    48.0    48.0   122.9   122.2     0.7
SINGLE 2923 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1    60.0    59.7    48.0    48.0   122.9   122.1     0.8
SINGLE 2934 : 60186 AS KING3 - 60006 KING 31G CKT: 1    59.5    59.2    48.0    48.0   121.7   121.0     0.7
SINGLE 1126 : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1    59.4    59.1    48.0    48.0   121.6   121.0     0.6
SINGLE 3010 : 60342 WHAST  7 - 62258 WHASTNG8 CKT: 1    59.3    58.9    48.0    48.0   121.3   120.5     0.8
SINGLE 964  : 60110 WILMART7 - 60194 CARVRCO7 CKT: 1    59.0    58.6    48.0    48.0   120.8   120.0     0.8
715       4 : ** MULTIPLE CONTINGENCY **                59.0    58.6    48.0    48.0   120.7   120.0     0.7
            : 62666 GLNDALE7 - 60243 SCOTTAP7 CKT: 1
            : 62666 GLNDALE7 - 62672 GLNDALE8 CKT: 1
            : 60243 SCOTTAP7 - 60244 SCOTTCO7 CKT: 1
            : 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1
            : 60194 CARVRCO7 - 60931 CARVRCO8 CKT: 1
SINGLE 2895 : 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1    58.7    58.4    48.0    48.0   120.6   119.8     0.8
740    2    : ** MULTIPLE CONTINGENCY **                58.7    58.4    48.0    48.0   120.6   119.8     0.8
            : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1
            : 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1
SINGLE 945  : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1    58.7    58.4    48.0    48.0   120.5   119.8     0.7
SINGLE 3393 : 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1    58.9    58.5    48.0    48.0   120.5   119.7     0.8
SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1    58.7    58.4    48.0    48.0   120.2   119.5     0.7
SINGLE 2938 : 60200 BLK DG27 - 60013 BLK D73G CKT: 1    58.6    58.4    48.0    48.0   120.0   119.5     0.5
715       2 : ** MULTIPLE CONTINGENCY **                58.6    58.2    48.0    48.0   119.9   119.1     0.8
            : 62666 GLNDALE7 - 60243 SCOTTAP7 CKT: 1
            : 60242 SAVAGE 7 - 62668 EGLCKTP7 CKT: 1
            : 62666 GLNDALE7 - 62672 GLNDALE8 CKT: 1
            : 60243 SCOTTAP7 - 60244 SCOTTCO7 CKT: 1
            : 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1
            : 60194 CARVRCO7 - 60931 CARVRCO8 CKT: 1
            : 60190 BLK DOG7 - 60242 SAVAGE 7 CKT: 1
            : 62668 EGLCKTP7 - 62975 SHAKOPE7 CKT: 1
            : 62975 SHAKOPE7 - 60244 SCOTTCO7 CKT: 1
            : 60244 SCOTTCO7 - 60890 SCOTTCO8 CKT: 2
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SCO-SSK/CAR7: ** MULTIPLE CONTINGENCY **                 58.6    58.2    48.0    48.0   119.9   119.2     0.7
            : 60244 SCOTTCO7 - 62975 SHAKOPE7 CKT: 1
            : 60244 SCOTTCO7 - 60243 SCOTTAP7 CKT: 1
            : 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1
            : 60243 SCOTTAP7 - 62666 GLNDALE7 CKT: 1
SINGLE 1121 : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1    58.5    58.2    48.0    48.0   119.8   119.1     0.7
SINGLE 1199 : 60218 INVRHLS7 - 60223 KOCHREF7 CKT: 1    58.5    58.2    48.0    48.0   119.8   119.1     0.7
795         : ** MULTIPLE CONTINGENCY **                 58.6    58.2    48.0    48.0   119.8   119.1     0.7
            : 66550 GRANITF4 - 60150 MNVLTAP4 CKT: 1
            : 60148 MINVALY7 - 60149 MINVALT4 CKT: C
            : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1
            : 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1
            : 63054 PANTHER4 - 60742 PANTHER8 CKT: 1
810   C1    : ** MULTIPLE CONTINGENCY **                 58.5    58.2    48.0    48.0   119.8   119.1     0.7
            : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1
            : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C
SINGLE 1120 : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C    58.5    58.2    48.0    48.0   119.8   119.0     0.8
022       1 : ** MULTIPLE CONTINGENCY **                 58.5    58.1    48.0    48.0   119.7   118.9     0.8
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
            : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
            : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
            : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
SINGLE 2958 : 60240 RIVRSID7 - 60008 RIVRS78G CKT: 1    58.4    58.2    48.0    48.0   119.6   119.1     0.5
022       3 : ** MULTIPLE CONTINGENCY **                 58.3    58.0    48.0    48.0   119.4   118.7     0.7
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
CNC-KOL/TER3: ** MULTIPLE CONTINGENCY **                 58.3    57.9    48.0    48.0   119.3   118.6     0.7
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
SINGLE 33   : 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1    58.2    57.8    48.0    48.0   119.1   118.3     0.8
SINGLE 2916 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1    58.2    57.8    48.0    48.0   119.1   118.3     0.8
RRK-ASK/CGR7: ** MULTIPLE CONTINGENCY **                 58.2    57.8    48.0    48.0   119.1   118.4     0.7
            : 60236 REDROCK3 - 60186 AS KING3 CKT: 1
            : 60238 REDROCK7 - 60204 COTTAGE7 CKT: 1
SINGLE 3141 : 60817 BURNSID8 - 62387 SPRNGCK8 CKT: 1    58.1    57.8    48.0    48.0   119.0   118.3     0.7
SINGLE 2948 : 60214 HIBRDGE7 - 60010 HIBRD76G CKT: 1    58.1    57.7    48.0    48.0   118.9   118.1     0.8
SINGLE 2968 : 60276 AIRLAKE7 - 62234 LKMARN 7 CKT: 1    58.1    57.7    48.0    48.0   118.8   118.1     0.7
SINGLE 3150 : 60826 TRAVRSE8 - 62350 TRAVERS8 CKT: 1    58.0    57.6    48.0    48.0   118.7   117.9     0.8
705       1 : ** MULTIPLE CONTINGENCY **                 57.9   .....    48.0   .....   118.6   .....   *NEW*
            : 60192 BLUE LK3 - 60233 PARKERS3 CKT: 1
            : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1
            : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 1
BASE CASE   : **       BASE CASE      **                 56.9    56.6    48.0    48.0   116.5   115.8     0.7
SINGLE 2894 : 60102 ADAMS  3 - 63032 PL VLLY3 CKT: 1    55.9    55.6    48.0    48.0   114.4   113.7     0.7
SINGLE 1481 : 60823 REDWING8 - 60824 FRONTNC8 CKT: 1    55.9    55.6    48.0    48.0   114.4   113.7     0.7
SINGLE 20   : 34006 LAKEFLD3 - 60286 NOBLES 3 CKT: C    55.9    55.5    48.0    48.0   114.3   113.6     0.7
SINGLE 3114 : 60793 MORISTN8 - 62875 WARSAW 8 CKT: 1    55.7    55.4    48.0    48.0   114.0   113.3     0.7
SINGLE 1471 : 60801 CNFLSTR8 - 60802 CANFLS 8 CKT: 1    55.6    55.3    48.0    48.0   113.9   113.2     0.7
SINGLE 1008 : 60130 SPLTRTA3 - 66537 WHITE  3 CKT: 1    55.6    55.2    48.0    48.0   113.7   113.0     0.7
SINGLE 1001 : 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1    55.6    55.2    48.0    48.0   113.7   113.0     0.7
SINGLE 972  : 60113 DOME   7 - 60830 EASTWD18 CKT: P    55.5    55.1    48.0    48.0   113.5   112.8     0.7
SINGLE 963  : 60110 WILMART7 - 60113 DOME   7 CKT: C    55.5    55.1    48.0    48.0   113.5   112.8     0.7
SINGLE 1530 : 60897 LEBNON 8 - 60905 FRMNGTN8 CKT: 1    55.4    55.1    48.0    48.0   113.3   112.6     0.7
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SINGLE 1464 : 60793 MORISTN8 - 60805 WATRVIL8 CKT: 1    55.4    55.0    48.0    48.0   113.3   112.6     0.7
SINGLE 3126 : 60808 EAGLELK8 - 62347 EAGLELK8 CKT: 1    55.3    55.0    48.0    48.0   113.2   112.5     0.7
SINGLE 3154 : 60831 EASTWD28 - 62347 EAGLELK8 CKT: 1    55.2    54.8    48.0    48.0   113.0   112.2     0.8
SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1    55.1    54.8    48.0    48.0   112.7   112.0     0.7
SINGLE 1375 : 60650 WILMART8 - 60831 EASTWD28 CKT: 1    54.9    54.6    48.0    48.0   112.4   111.7     0.7
SINGLE 2901 : 60108 WILMART3 -  8001 G261-ST  CKT: 1    55.0    54.6    48.0    48.0   112.4   111.7     0.7
SINGLE 1460 : 60790 FAIRPRK8 - 60791 FARIBLT8 CKT: 1    54.8    54.5    48.0    48.0   112.3   111.6     0.7
SINGLE 2902 : 60110 WILMART7 -  8006 G261-CT1 CKT: 1    54.9    54.5    48.0    48.0   112.3   111.6     0.7
SINGLE 2903 : 60110 WILMART7 -  8007 G261-CT2 CKT: 1    54.9    54.5    48.0    48.0   112.3   111.6     0.7
SINGLE 3184 : 60905 FRMNGTN8 - 62256 CSTL RK8 CKT: 1    54.6    54.3    48.0    48.0   112.1   111.4     0.7
SINGLE 953  : 60107 W FARIB7 - 60792 WFARBLT8 CKT: 1    54.3    54.0    48.0    48.0   111.2   110.5     0.7
SINGLE 968  : 60110 WILMART7 - 60830 EASTWD18 CKT: P    54.2    53.8    48.0    48.0   110.8   110.1     0.7
SINGLE 3112 : 60789 CIRCLTP8 - 62872 FARIBLT8 CKT: 1    54.1    53.8    48.0    48.0   110.6   109.9     0.7
SINGLE 3124 : 60805 WATRVIL8 - 62679 ELYSNTP8 CKT: 1    54.0    53.7    48.0    48.0   110.5   109.9     0.6
SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1    53.9    53.5    48.0    48.0   110.2   109.5     0.7
050    3    : ** MULTIPLE CONTINGENCY **               53.8    53.5    48.0    48.0   110.1   109.5     0.6
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 39901 COC DPC  - 38342 COC 69   CKT: 1
            : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
SINGLE 3128 : 60808 EAGLELK8 - 62679 ELYSNTP8 CKT: 1    53.7    53.4    48.0    48.0   109.9   109.2     0.7
SINGLE 1462 : 60791 FARIBLT8 - 60792 WFARBLT8 CKT: 1    52.2    51.9    48.0    48.0   107.6   106.9     0.7
SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1    52.6    52.4    48.0    48.0   107.5   107.2     0.3
SINGLE 3110 : 60787 NOFIELD8 - 62256 CSTL RK8 CKT: 1    52.4    52.1    48.0    48.0   107.5   106.9     0.6
ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **               52.4    52.1    48.0    48.0   107.2   106.6     0.6
            : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
050    2    : ** MULTIPLE CONTINGENCY **               51.9    51.4    48.0    48.0   106.2   105.1     1.1
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
050    1    : ** MULTIPLE CONTINGENCY **               51.6    51.3    48.0    48.0   105.6   105.0     0.6
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
            : 39901 COC DPC  - 38342 COC 69   CKT: 1
            : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    51.3    51.1    48.0    48.0   105.0   104.6     0.4
SINGLE 1695 : 61948 BYRON  5 - 61950 BYRON  3 CKT: 1    50.7    50.5    48.0    48.0   103.9   103.2     0.7
SINGLE 1461 : 60790 FAIRPRK8 - 60792 WFARBLT8 CKT: 1    48.7    48.4    48.0    48.0   101.8   101.1     0.7
SINGLE 954  : 60107 W FARIB7 - 60792 WFARBLT8 CKT: P    46.7    46.5    48.0    48.0    95.6    95.0     0.6
SINGLE 2900 : 60107 W FARIB7 - 62865 AIRTECH7 CKT: 1    45.7    45.2    48.0    48.0    93.5    92.5     1.0

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 52) 60791 FARIBLT8 - 60792 WFARBLT8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 1461 : 60790 FAIRPRK8 - 60792 WFARBLT8 CKT: 1   107.0   106.4    47.0    47.0   221.0   219.7     1.3
SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    83.3    82.5    47.0    47.0   172.2   170.7     1.5
SPC-PRI/CTF5: ** MULTIPLE CONTINGENCY **               72.4    71.9    47.0    47.0   149.6   148.7     0.9
            : 63071 SPRNGCK5 - 60106 PR ISLD5 CKT: 1
            : 63071 SPRNGCK5 - 60103 CANNFLS5 CKT: 1
740    1    : ** MULTIPLE CONTINGENCY **               72.4    71.9    47.0    47.0   149.6   148.7     0.9
            : 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1
            : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1
            : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1
SINGLE 1696 : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1    72.0    71.6    47.0    47.0   148.8   147.9     0.9
BYN-WOW/KAN5: ** MULTIPLE CONTINGENCY **               71.9    71.5    47.0    47.0   148.6   147.8     0.8
            : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1
            : 61161 BYRON  8 - 60799 KASSON 8 CKT: 1
SINGLE 1697 : 61952 S FARIB5 - 61964 OWATNNA5 CKT: 1    71.6    71.2    47.0    47.0   147.9   147.1     0.8
SINGLE 955  : 60107 W FARIB7 - 61952 S FARIB5 CKT: 1    71.6    71.2    47.0    47.0   147.9   147.1     0.8
SINGLE 2899 : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1    70.7    70.4    47.0    47.0   146.4   145.6     0.8
SINGLE 947  : 60105 PR ISLD3 - 60106 PR ISLD5 CKT: 1    70.7    70.4    47.0    47.0   146.3   145.5     0.8
```

700 1	: ** MULTIPLE CONTINGENCY **	67.0	66.6	47.0	47.0	138.4	137.7	0.7
	: 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1							
	: 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1							
	: 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1							
BLL-PRI/IVH3	: ** MULTIPLE CONTINGENCY **	65.1	64.7	47.0	47.0	134.6	133.8	0.8
	: 60192 BLUE LK3 - 60105 PR ISLD3 CKT: 1							
	: 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1							
IVH-BLL/RRK3	: ** MULTIPLE CONTINGENCY **	65.1	64.8	47.0	47.0	134.6	133.8	0.8
	: 60217 INVRHLS3 - 60192 BLUE LK3 CKT: 1							
	: 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1							
SINGLE 946	: 60104 CANNFLS7 - 60801 CNFLSTR8 CKT: 1	64.7	64.4	47.0	47.0	133.7	133.0	0.7
SINGLE 1196	: 60217 INVRHLS3 - 60218 INVRHLS7 CKT: 1	63.9	63.6	47.0	47.0	132.1	131.4	0.7
SINGLE 2924	: 60160 SHERCO 3 - 60002 SHERC33G CKT: 1	63.9	63.5	47.0	47.0	131.9	131.2	0.7
SINGLE 2897	: 60105 PR ISLD3 - 60003 PR IS31G CKT: 1	63.7	63.3	47.0	47.0	131.5	130.8	0.7
SINGLE 2898	: 60105 PR ISLD3 - 60004 PR IS32G CKT: 1	63.7	63.3	47.0	47.0	131.5	130.8	0.7
SINGLE 3361	: 61948 BYRON 5 - 61906 MAPLE LF CKT: 1	63.6	63.3	47.0	47.0	131.4	130.7	0.7
SINGLE 3010	: 60342 WHAST 7 - 62258 WHASTNG8 CKT: 1	63.5	63.2	47.0	47.0	131.3	130.5	0.8
SINGLE 3185	: 60905 FRMNGTN8 - 62259 LKMARN 8 CKT: 1	63.4	63.0	47.0	47.0	131.0	130.2	0.8
SINGLE 2922	: 60160 SHERCO 3 - 60000 SHERC31G CKT: 1	62.7	62.4	47.0	47.0	129.6	128.9	0.7
SINGLE 2917	: 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1	62.7	62.4	47.0	47.0	129.5	128.8	0.7
SINGLE 1126	: 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1	62.7	62.4	47.0	47.0	129.5	128.8	0.7
SINGLE 2923	: 60160 SHERCO 3 - 60001 SHERC32G CKT: 1	62.7	62.3	47.0	47.0	129.5	128.8	0.7
SINGLE 2934	: 60186 AS KING3 - 60006 KING 31G CKT: 1	62.4	62.1	47.0	47.0	129.0	128.3	0.7
SINGLE 1471	: 60801 CNFLSTR8 - 60802 CANFLS 8 CKT: 1	62.3	62.0	47.0	47.0	128.7	128.0	0.7
SINGLE 29	: 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1	62.2	61.8	47.0	47.0	128.5	127.8	0.7
SINGLE 2968	: 60276 AIRLAKE7 - 62234 LKMARN 7 CKT: 1	62.2	61.8	47.0	47.0	128.4	127.7	0.7
SINGLE 964	: 60110 WILMART7 - 60194 CARVRCO7 CKT: 1	62.1	61.8	47.0	47.0	128.3	127.6	0.7
WEH-CHE/HAS7	: ** MULTIPLE CONTINGENCY **	62.0	61.6	47.0	47.0	128.1	127.3	0.8
	: 60342 WHAST 7 - 60201 CHEMOLT7 CKT: 1							
	: 62258 WHASTNG8 - 60915 HASTING8 CKT: 1							
CNC-KOL/TER3	: ** MULTIPLE CONTINGENCY **	61.9	61.5	47.0	47.0	127.9	127.1	0.8
	: 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1							
	: 60202 COON CK3 - 60251 TERMINL3 CKT: 1							
SINGLE 3187	: 60915 HASTING8 - 62258 WHASTNG8 CKT: 1	61.9	61.6	47.0	47.0	127.9	127.1	0.8
SINGLE 945	: 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1	61.8	61.4	47.0	47.0	127.8	127.1	0.7
022 1	: ** MULTIPLE CONTINGENCY **	61.9	61.5	47.0	47.0	127.8	127.0	0.8
	: 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1							
	: 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1							
	: 60202 COON CK3 - 60251 TERMINL3 CKT: 1							
	: 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1							
	: 60251 TERMINL3 - 61492 TERMID1Y CKT: 1							
	: 61492 TERMID1Y - 60252 TERMINL7 CKT: 1							
	: 61492 TERMID1Y - 61187 TERTER19 CKT: 1							
	: 60251 TERMINL3 - 61491 TERMID2Y CKT: 1							
	: 61491 TERMID2Y - 60252 TERMINL7 CKT: 1							
	: 61491 TERMID2Y - 61188 TERTER29 CKT: 1							
022 3	: ** MULTIPLE CONTINGENCY **	61.9	61.5	47.0	47.0	127.8	127.1	0.7
	: 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1							
	: 60202 COON CK3 - 60251 TERMINL3 CKT: 1							
	: 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1							
	: 60251 TERMINL3 - 61491 TERMID2Y CKT: 1							
	: 61491 TERMID2Y - 60252 TERMINL7 CKT: 1							
	: 61491 TERMID2Y - 61188 TERTER29 CKT: 1							
SINGLE 1199	: 60218 INVRHLS7 - 60223 KOCHREF7 CKT: 1	61.9	61.5	47.0	47.0	127.8	127.0	0.8
SINGLE 2895	: 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1	61.8	61.4	47.0	47.0	127.8	127.1	0.7
740 2	: ** MULTIPLE CONTINGENCY **	61.8	61.4	47.0	47.0	127.8	127.1	0.7
	: 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1							
	: 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1							
SINGLE 3393	: 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1	61.8	61.5	47.0	47.0	127.7	127.0	0.7
RRK-ASK/CGR7	: ** MULTIPLE CONTINGENCY **	61.7	61.4	47.0	47.0	127.5	126.8	0.7
	: 60236 REDROCK3 - 60186 AS KING3 CKT: 1							
	: 60238 REDROCK7 - 60204 COTTAGE7 CKT: 1							
SINGLE 33	: 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1	61.7	61.3	47.0	47.0	127.5	126.7	0.8

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715        4 : ** MULTIPLE CONTINGENCY **                61.6    61.3    47.0    47.0   127.3   126.5     0.8
             : 62666 GLNDALE7 - 60243 SCOTTAP7 CKT: 1
             : 62666 GLNDALE7 - 62672 GLNDALE8 CKT: 1
             : 60243 SCOTTAP7 - 60244 SCOTTCO7 CKT: 1
             : 60243 SCOTTAP7 - 60194 CARVRCO7 CKT: 1
             : 60194 CARVRCO7 - 60931 CARVRCO8 CKT: 1
ASK-CHI/KOL3: ** MULTIPLE CONTINGENCY **                61.6    61.3    47.0    47.0   127.2   126.7     0.5
             : 60186 AS KING3 - 60199 CHIS CO3 CKT: 1
             : 60186 AS KING3 - 60221 KOLMNLK3 CKT: 1
SINGLE 1121 : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1    61.6    61.2    47.0    47.0   127.2   126.4     0.8
810    C1   : ** MULTIPLE CONTINGENCY **                61.6   .....    47.0   .....   127.2   .....   *NEW*
             : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1
             : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C
SINGLE 2958 : 60240 RIVRSID7 - 60008 RIVRS78G CKT: 1    61.6    61.3    47.0    47.0   127.2   126.6     0.6
BASE CASE   : **       BASE CASE      **                60.6    60.2    47.0    47.0   125.1   124.4     0.7
SINGLE 1479 : 60818 ZUMBRTA8 - 60820 LENATAP8 CKT: 1    59.5    59.2    47.0    47.0   122.9   122.2     0.7
SINGLE 1001 : 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1    59.5    59.1    47.0    47.0   122.9   122.2     0.7
SINGLE 3112 : 60789 CIRCLTP8 - 62872 FARIBLT8 CKT: 1    59.5    59.1    47.0    47.0   122.9   122.2     0.7
SINGLE 3145 : 60820 LENATAP8 - 62382 LENA TP8 CKT: 1    59.5    59.2    47.0    47.0   122.9   122.2     0.7
SINGLE 1008 : 60130 SPLTRTA3 - 66537 WHITE  3 CKT: 1    59.5    59.1    47.0    47.0   122.9   122.2     0.7
SINGLE 1465 : 60795 KENYNVL8 - 60797 KENYNTP8 CKT: 1    59.4    59.1    47.0    47.0   122.7   122.0     0.7
SINGLE 972  : 60113 DOME   7 - 60830 EASTWD18 CKT: P    59.4    59.0    47.0    47.0   122.6   121.9     0.7
SINGLE 963  : 60110 WILMART7 - 60113 DOME   7 CKT: C    59.3    59.0    47.0    47.0   122.6   121.9     0.7
SINGLE 1464 : 60793 MORISTN8 - 60805 WATRVIL8 CKT: 1    59.3    58.9    47.0    47.0   122.5   121.8     0.7
SINGLE 3126 : 60808 EAGLELK8 - 62347 EAGLELK8 CKT: 1    59.3    58.9    47.0    47.0   122.4   121.7     0.7
SINGLE 3154 : 60831 EASTWD28 - 62347 EAGLELK8 CKT: 1    59.2    58.8    47.0    47.0   122.2   121.4     0.8
SINGLE 3110 : 60787 NOFIELD8 - 62256 CSTL RK8 CKT: 1    59.0    58.6    47.0    47.0   122.0   121.2     0.8
SINGLE 1375 : 60650 WILMART8 - 60831 EASTWD28 CKT: 1    58.9    58.6    47.0    47.0   121.7   121.0     0.7
SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1    58.8    58.5    47.0    47.0   121.5   120.8     0.7
SINGLE 2903 : 60110 WILMART7 -  8007 G261-CT2 CKT: 1    58.8    58.4    47.0    47.0   121.4   120.7     0.7
SINGLE 2902 : 60110 WILMART7 -  8006 G261-CT1 CKT: 1    58.8    58.4    47.0    47.0   121.4   120.7     0.7
SINGLE 2901 : 60108 WILMART3 -  8001 G261-ST  CKT: 1    58.8    58.4    47.0    47.0   121.4   120.6     0.8
SINGLE 1483 : 60824 FRONTNC8 - 61960 LAKECITY CKT: 1    58.7    58.4    47.0    47.0   121.3   120.6     0.7
SINGLE 1481 : 60823 REDWING8 - 60824 FRONTNC8 CKT: 1    58.6    58.3    47.0    47.0   121.1   120.4     0.7
SINGLE 953  : 60107 W FARIB7 - 60792 WFARBLT8 CKT: 1    58.5    58.2    47.0    47.0   120.8   120.1     0.7
SINGLE 968  : 60110 WILMART7 - 60830 EASTWD18 CKT: P    58.3    57.9    47.0    47.0   120.4   119.7     0.7
SINGLE 3124 : 60805 WATRVIL8 - 62679 ELYSNTP8 CKT: 1    58.2    57.9    47.0    47.0   120.3   119.6     0.7
SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1    58.1    57.8    47.0    47.0   120.1   119.4     0.7
050    3    : ** MULTIPLE CONTINGENCY **                58.0    57.7    47.0    47.0   119.9   119.2     0.7
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
SINGLE 3128 : 60808 EAGLELK8 - 62679 ELYSNTP8 CKT: 1    58.0    57.6    47.0    47.0   119.7   119.0     0.7
SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1    57.9    57.7    47.0    47.0   119.6   119.2     0.4
ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                57.9    57.6    47.0    47.0   119.5   119.0     0.5
             : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
050    2    : ** MULTIPLE CONTINGENCY **                57.2    56.7    47.0    47.0   118.2   117.2     1.0
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
050    1    : ** MULTIPLE CONTINGENCY **                56.9    56.6    47.0    47.0   117.5   116.9     0.6
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    55.6    55.4    47.0    47.0   114.9   114.4     0.5
SINGLE 1695 : 61948 BYRON  5 - 61950 BYRON  3 CKT: 1    55.4    55.1    47.0    47.0   114.6   113.9     0.7
SINGLE 954  : 60107 W FARIB7 - 60792 WFARBLT8 CKT: P    52.5    52.2    47.0    47.0   108.5   107.8     0.7
SINGLE 2900 : 60107 W FARIB7 - 62865 AIRTECH7 CKT: 1    52.3    51.9    47.0    47.0   108.1   107.2     0.9
SINGLE 1455 : 60786 DUNDAS 8 - 60787 NOFIELD8 CKT: 1    49.9    49.7    47.0    47.0   103.3   102.7     0.6
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 SINGLE 1478 : 60818 ZUMBRTA8 - 60819 CHERYTP8 CKT: 1    48.9    48.6    47.0    47.0   101.0   100.5     0.5
 SINGLE 1467 : 60796 KENYON 8 - 60819 CHERYTP8 CKT: 1    48.0    47.7    47.0    47.0    99.1    98.6     0.5
 SINGLE 952  : 60107 W FARIB7 - 60265 LOON TP7 CKT: C    47.2    46.9    47.0    47.0    97.5    97.0     0.5
 SINGLE 1466 : 60796 KENYON 8 - 60797 KENYNTP8 CKT: 1    46.9    46.6    47.0    47.0    96.8    96.3     0.5
 SINGLE 1456 : 60786 DUNDAS 8 - 60788 VALLYTP8 CKT: 1    45.8    45.5    47.0    47.0    94.6    94.0     0.6
 SINGLE 1458 : 60788 VALLYTP8 - 60789 CIRCLTP8 CKT: 1    45.2    44.9    47.0    47.0    93.3    92.8     0.5
 SINGLE 3117 : 60797 KENYNTP8 - 62389 KENYON 8 CKT: 1    45.0    44.8    47.0    47.0    93.1    92.5     0.6
 SINGLE 3115 : 60794 NRSTRND8 - 62389 KENYON 8 CKT: 1    44.5    44.3    47.0    47.0    92.0    91.4     0.6
 SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1    44.5    43.2    47.0    47.0    92.0    91.5     0.5
 SINGLE 1275 : 60265 LOON TP7 - 60830 EASTWD18 CKT: P    44.0    43.9    47.0    47.0    90.9    90.6     0.3
 SINGLE 1459 : 60789 CIRCLTP8 - 60790 FAIRPRK8 CKT: 1    43.8   .....    47.0   .....    90.4   .....   *NEW*
 SINGLE 2936 : 60200 BLK DG27 - 60013 BLK D73G CKT: 1   .....    61.2   .....    47.0   .....   126.5  *ELIM*

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 53) 60835 CHNDLRT8 -  6410 G272     CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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 BASE CASE   : **       BASE CASE      **                10.0    10.0    10.5    10.5    94.9    94.9     0.0

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 54) 60934 WATOWAN8 - 62805 STJAMES8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    62.8    61.6    36.0    36.0   168.5   165.9     2.6
 SINGLE 28   : 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1    45.4    44.9    36.0    36.0   122.1   120.8     1.3
 SINGLE 383  : 34231 MT LAKE8 - 34281 MTLAKET8 CKT: 1    39.2    38.9    36.0    36.0   105.5   104.7     0.8
 LAKF-FOX DBL: ** MULTIPLE CONTINGENCY **                38.8    38.4    36.0    36.0   104.3   103.2     1.1
             : 34007 LAKEFLD5 - 34008 FOX LK 5 CKT: 1
             : 34007 LAKEFLD5 - 34008 FOX LK 5 CKT: 2
 SINGLE 381  : 34230 COMFREY8 - 34281 MTLAKET8 CKT: 1    38.5    38.2    36.0    36.0   103.5   102.8     0.7
 SINGLE 380  : 34230 COMFREY8 - 34240 DOTSON 8 CKT: 1    38.0    37.7    36.0    36.0   102.2   101.5     0.7
 SINGLE 3194 : 60934 WATOWAN8 - 62804 SVEADTP8 CKT: 1    38.0    37.8    36.0    36.0   102.0   101.5     0.5
 SINGLE 3197 : 60935 BUTRFLD8 - 62804 SVEADTP8 CKT: 1    37.6    37.4    36.0    36.0   100.9   100.4     0.5
 SINGLE 1692 : 61934 RUTLAND  - 61942 10TH STR CKT: 1    37.4    37.0    36.0    36.0   100.8    99.9     0.9
 SINGLE 39   : 34012 FOXLAKE8 - 34275 WELCOMT8 CKT: 1    37.3    37.0    36.0    36.0   100.5    99.6     0.9
 SINGLE 450  : 34280 TRUMANT8 - 61934 RUTLAND  CKT: 1    37.2    36.8    36.0    36.0   100.1    99.0     1.1
 SINGLE 384  : 34231 MT LAKE8 - 60935 BUTRFLD8 CKT: 1    37.2    37.0    36.0    36.0   100.0    99.5     0.5
 SINGLE 441  : 34275 WELCOMT8 - 61942 10TH STR CKT: 1    37.0    36.6    36.0    36.0    99.6    98.7     0.9
 SINGLE 401  : 34248 TRUMANM8 - 34249 TRUMAN 8 CKT: 1    36.1    35.7    36.0    36.0    97.1    96.0     1.1
 SINGLE 402  : 34248 TRUMANM8 - 34280 TRUMANT8 CKT: 1    36.1    35.7    36.0    36.0    97.1    96.0     1.1
 SINGLE 2924 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    36.0    35.7    36.0    36.0    97.1    96.3     0.8
 SINGLE 393  : 34240 DOTSON 8 - 62065 DOTSON 8 CKT: 1    35.9    35.5    36.0    36.0    96.8    95.8     1.0
 SINGLE 403  : 34249 TRUMAN 8 - 62799 LWSVLTP8 CKT: 1    35.7    35.3    36.0    36.0    96.0    94.9     1.1
 SINGLE 1720 : 62065 DOTSON 8 - 62066 LVNWRTH8 CKT: 1    35.5    35.1    36.0    36.0    95.7    94.6     1.1
 SINGLE 1693 : 61936 FAIRMONT - 61942 10TH STR CKT: 2    35.4    35.1    36.0    36.0    95.4    94.6     0.8
 SINGLE 2704 : 34006 LAKEFLD3 - 63875 RAUN   3 CKT: 1    35.3    35.1    36.0    36.0    95.2    94.5     0.7
 SINGLE 2917 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1    35.2    34.9    36.0    36.0    95.0    94.2     0.8
 SINGLE 2922 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1    35.2    34.9    36.0    36.0    95.0    94.2     0.8
 SINGLE 2923 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1    35.2    34.9    36.0    36.0    94.9    94.1     0.8
 SINGLE 2898 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1    35.1    34.9    36.0    36.0    94.8    94.1     0.7
 SINGLE 2897 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1    35.1    34.9    36.0    36.0    94.8    94.1     0.7
 SINGLE 405  : 34250 LEWISVL8 - 62799 LWSVLTP8 CKT: 1    35.1    34.7    36.0    36.0    94.5    93.4     1.1
 SINGLE 372  : 34225 HERONLK8 - 62801 SSTORDN8 CKT: 1    35.0    34.7    36.0    36.0    94.3    93.6     0.7
 SINGLE 2903 : 60110 WILMART7 -  8007 G261-CT2 CKT: 1    34.9    34.7    36.0    36.0    94.2    93.4     0.8
 SINGLE 2902 : 60110 WILMART7 -  8006 G261-CT1 CKT: 1    34.9    34.7    36.0    36.0    94.2    93.4     0.8
 SINGLE 374  : 34226 STORDEN8 - 62801 SSTORDN8 CKT: 1    35.0    34.7    36.0    36.0    94.1    93.4     0.7
 SINGLE 2934 : 60186 AS KING3 - 60006 KING 31G CKT: 1    34.9    34.6    36.0    36.0    94.1    93.3     0.8
 SINGLE 2916 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1    34.7    34.4    36.0    36.0    93.7    92.9     0.8
 BASE CASE   : **       BASE CASE      **                33.7    33.4    36.0    36.0    90.9    90.1     0.8

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 55) 60949 MONROCO8 - 68847 SPARTA   CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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 885         : ** MULTIPLE CONTINGENCY **                92.2    92.1    47.0    47.0   191.3   191.2     0.1
             : 69507 SENECA 5 - 69511 BELLCTR5 CKT: 1
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	: 69507 SENECA 5 - 69523 GENOA 5 CKT: 1									
ASK-RRK/ECL3:	** MULTIPLE CONTINGENCY **	88.0	.....	47.0	.....	181.6	.....	*NEW*		
	: 60186 AS KING3 - 60236 REDROCK3 CKT: 1									
	: 60186 AS KING3 - 60304 EAU CL 3 CKT: 1									
	: 60304 EAU CL 3 - 39244 ARP 345 CKT: 1									
SINGLE 56	: 34018 HAZLTON3 - 60102 ADAMS 3 CKT: 1	70.9	70.8	47.0	47.0	146.5	146.1	0.4		
SINGLE 3202	: 60944 VIROQUA8 - 68800 T VIO CKT: 1	71.2	71.2	47.0	47.0	146.3	146.2	0.1		
SINGLE 55	: 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1	68.3	68.3	47.0	47.0	141.1	140.8	0.3		
SINGLE 2775	: 34093 ARNOLD 3 - 64352 TIFFIN 3 CKT: 1	67.8	67.7	47.0	47.0	139.9	139.7	0.2		
SINGLE 62	: 34021 LANSINGW - 34022 LANSING5 CKT: 1	67.6	67.6	47.0	47.0	139.4	139.3	0.1		
SINGLE 2995	: 60315 T-CRNRS7 - 39706 WIEN CKT: 1	66.8	66.8	47.0	47.0	137.9	137.8	0.1		
SINGLE 1554	: 60949 MONROCO8 - 60950 SPARTA 8 CKT: 1	66.8	66.8	47.0	47.0	136.9	136.8	0.1		
SINGLE 2727	: 34022 LANSING5 - 69531 POSTVIL5 CKT: 1	66.2	66.2	47.0	47.0	136.5	136.4	0.1		
X0897-089801:	** MULTIPLE CONTINGENCY **	65.7	65.6	47.0	47.0	135.4	135.3	0.1		
	: 60215 HYLNDLK7 - 60193 BLUE LK7 CKT: 1									
	: 60215 HYLNDLK7 - 60261 DEANLAK7 CKT: 1									
	: 60261 DEANLAK7 - 60244 SCOTTCO7 CKT: 1									
SINGLE 60	: 34020 HAZL S 5 - 34135 DUNDEE 5 CKT: 1	65.7	65.6	47.0	47.0	135.4	135.3	0.1		
BASE CASE	: ** BASE CASE **	64.5	64.5	47.0	47.0	132.8	132.8	0.0		
SINGLE 29	: 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1	63.5	63.5	47.0	47.0	130.6	130.6	0.0		
SINGLE 3318	: 61128 LAW CRK7 - 62276 SHAFER 7 CKT: C	63.5	63.5	47.0	47.0	130.6	130.5	0.1		
SINGLE 46	: 34015 LIME CK5 - 34016 EMERY 5 CKT: 1	63.5	.....	47.0	.....	130.6	.....	*NEW*		
SINGLE 3188	: 60920 LINDSTM7 - 62276 SHAFER 7 CKT: C	63.5	63.5	47.0	47.0	130.5	130.5	0.0		
SINGLE 3540	: 66537 WHITE 3 - 6653 GI0108 CKT: 1	63.5	63.5	47.0	47.0	130.4	130.4	0.0		
SINGLE 3593	: 67106 LELANDO4 - 67110 LELAN41G CKT: 1	63.5	63.5	47.0	47.0	130.4	130.3	0.1		
SINGLE 1140	: 60196 CHI 7 - 60920 LINDSTM7 CKT: C	63.4	63.4	47.0	47.0	130.4	130.3	0.1		
SINGLE 1695	: 61948 BYRON 5 - 61950 BYRON 3 CKT: 1	63.5	63.4	47.0	47.0	130.4	130.4	0.0		
SINGLE 941	: 60015 ANSON CG - 61475 ANS TR2Y CKT: 2	63.4	63.4	47.0	47.0	130.3	130.2	0.1		
CHI-WYO/LIN7:	** MULTIPLE CONTINGENCY **	63.4	63.4	47.0	47.0	130.3	130.3	0.0		
	: 60196 CHI 7 - 60345 WYOMING7 CKT: 1									
	: 60196 CHI 7 - 60920 LINDSTM7 CKT: C									
SINGLE 940	: 60015 ANSON CG - 60129 SPLT RK7 CKT: 1	63.4	63.4	47.0	47.0	130.3	130.2	0.1		
SINGLE 2938	: 60200 BLK DG27 - 60013 BLK D73G CKT: 1	63.5	63.4	47.0	47.0	130.3	130.2	0.1		
SINGLE 2973	: 60287 NOBLES 7 - 6430 G287 CKT: 1	63.5	63.5	47.0	47.0	130.3	130.3	0.0		
SINGLE 1652	: 61051 STCRFL5G - 61131 LAW CRK5 CKT: C	63.4	63.4	47.0	47.0	130.3	130.3	0.0		
SINGLE 3280	: 61051 STCRFL5G - 69565 APL RVR5 CKT: C	63.4	63.3	47.0	47.0	130.2	130.2	0.0		
SINGLE 3004	: 60331 LKFLDXL3 - 63091 LGS 12Y CKT: 1	63.4	63.4	47.0	47.0	130.1	130.1	0.0		
SINGLE 3005	: 60331 LKFLDXL3 - 63092 LGS 34Y CKT: 1	63.4	63.4	47.0	47.0	130.1	130.1	0.0		
SINGLE 3006	: 60331 LKFLDXL3 - 63093 LGS 56Y CKT: 1	63.4	63.4	47.0	47.0	130.1	130.1	0.0		
SINGLE 2705	: 34007 LAKEFLD5 - 6006 G262 CKT: 1	63.4	63.3	47.0	47.0	130.1	130.0	0.1		
SINGLE 2703	: 34006 LAKEFLD3 - 3400 G164 CKT: 1	63.4	63.3	47.0	47.0	130.1	130.0	0.1		
SINGLE 3573	: 66751 CENTER 4 - 66749 CENTER1G CKT: 1	63.3	63.3	47.0	47.0	130.0	129.9	0.1		
SINGLE 1562	: 60955 SPARTA28 - 60956 MCCOY 8 CKT: 1	63.5	63.5	47.0	47.0	129.8	129.7	0.1		
SINGLE 2903	: 60110 WILMART7 - 8007 G261-CT2 CKT: 1	63.2	63.2	47.0	47.0	129.7	129.7	0.0		
SINGLE 2715	: 34016 EMERY 5 - 34910 EMERYGT1 CKT: 1	63.2	63.2	47.0	47.0	129.7	129.7	0.0		
SINGLE 2716	: 34016 EMERY 5 - 34911 EMERYGT2 CKT: 1	63.2	63.2	47.0	47.0	129.7	129.7	0.0		
SINGLE 2902	: 60110 WILMART7 - 8006 G261-CT1 CKT: 1	63.2	63.2	47.0	47.0	129.7	129.7	0.0		
SINGLE 3285	: 61056 T WESTB8 - 68812 WESTBY CKT: 1	63.4	63.3	47.0	47.0	129.6	129.5	0.1		
SINGLE 2948	: 60214 HIBRDGE7 - 60010 HIBRD76G CKT: 1	63.0	62.9	47.0	47.0	129.1	129.0	0.1		
SINGLE 2820	: 34189 OTTUMWA5 - 34146 OTTUMW1G CKT: 1	62.9	62.9	47.0	47.0	129.1	129.0	0.1		
SINGLE 1318	: 60305 EAU CLA5 - 60323 SEVN ML5 CKT: 1	62.5	62.5	47.0	47.0	129.0	128.9	0.1		
SINGLE 2724	: 34021 LANSINGW - 69523 GENOA 5 CKT: 1	62.7	62.6	47.0	47.0	128.9	128.8	0.1		
SINGLE 1555	: 60949 MONROCO8 - 60951 ROCKLND8 CKT: 1	63.0	63.0	47.0	47.0	128.8	128.8	0.0		
SINGLE 2774	: 34091 ARNOLD 5 - 34090 ARNOLD1G CKT: 1	62.6	62.6	47.0	47.0	128.5	128.4	0.1		
SINGLE 1324	: 60307 JACKSON5 - 60966 JACKCO 8 CKT: 1	62.4	62.4	47.0	47.0	128.5	128.4	0.1		
SINGLE 3596	: 67131 LARAMIE3 - 67118 LARAM31G CKT: 1	62.6	62.6	47.0	47.0	128.4	128.3	0.1		
SINGLE 1323	: 60307 JACKSON5 - 60316 TREMVAL5 CKT: 1	62.4	62.3	47.0	47.0	128.4	128.4	0.0		
SINGLE 3204	: 60944 VIROQUA8 - 68812 WESTBY CKT: 1	62.6	62.6	47.0	47.0	128.4	128.3	0.1		
SINGLE 3590	: 67101 ANTELOP3 - 67107 ANTEL32G CKT: 1	62.5	62.5	47.0	47.0	128.0	128.0	0.0		
SINGLE 3589	: 67101 ANTELOP3 - 67103 ANTEL31G CKT: 1	62.5	62.5	47.0	47.0	128.0	128.0	0.0		
SINGLE 2958	: 60240 RIVRSID7 - 60008 RIVRS78G CKT: 1	62.4	62.4	47.0	47.0	127.9	127.8	0.1		
SINGLE 1560	: 60954 TMAC 2 8 - 60956 MCCOY 8 CKT: 1	62.4	62.4	47.0	47.0	127.9	127.8	0.1		
SINGLE 2717	: 34016 EMERY 5 - 34912 EMERYST1 CKT: 1	62.4	62.4	47.0	47.0	127.9	127.9	0.0		

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SINGLE 1561 : 60954 TMAC 2 8 - 60957 CATARAC8 CKT: 1    62.4    62.4    47.0    47.0   127.8   127.8     0.0
SINGLE 1557 : 60951 ROCKLND8 - 60952 BANGOR 8 CKT: 1    62.6    62.6    47.0    47.0   127.8   127.8     0.0
SINGLE 3592 : 67105 LELANDO3 - 67111 LELAN32G CKT: 1    62.4    62.4    47.0    47.0   127.8   127.7     0.1
SINGLE 1326 : 60308 LACROSS5 - 60311 MAYFAIR5 CKT: 1    62.0    62.0    47.0    47.0   127.7   127.7     0.0
SINGLE 3622 : 67316 COYOTE 3 - 67315 COYOTE1G CKT: 1    62.3    62.3    47.0    47.0   127.6   127.5     0.1
SINGLE 1563 : 60957 CATARAC8 - 60959 T MEL1 8 CKT: 1    62.1    62.1    47.0    47.0   127.6   127.6     0.0
SINGLE 1566 : 60959 T MEL1 8 - 60960 T MEL2 8 CKT: 1    62.1    62.1    47.0    47.0   127.6   127.6     0.0
SINGLE 1564 : 60958 T SHAM 8 - 60960 T MEL2 8 CKT: 1    61.7    61.7    47.0    47.0   126.9   126.9     0.0
SINGLE 2901 : 60108 WILMART3 -  8001 G261-ST  CKT: 1    62.0    61.9    47.0    47.0   126.9   126.8     0.1
SINGLE 2996 : 60316 TREMVAL5 - 69543 ALMA   5 CKT: 1    61.5    61.5    47.0    47.0   126.8   126.7     0.1
SINGLE 3449 : 63314 BIGSTON4 - 63315 BIGSTN1G CKT: 1    61.8    61.8    47.0    47.0   126.6   126.5     0.1
SINGLE 2992 : 60309 MRSHLND5 - 69535 LAC TAP5 CKT: 1    61.4    61.4    47.0    47.0   126.6   126.5     0.1
SINGLE 1565 : 60958 T SHAM 8 - 60962 T ALB  8 CKT: 1    61.7    61.7    47.0    47.0   126.1   126.1     0.0
SINGLE 1558 : 60952 BANGOR 8 - 60953 WSTSALE8 CKT: 1    61.6    61.6    47.0    47.0   126.0   126.0     0.0
SINGLE 3398 : 63041 COAL CR4 - 63000 COAL 41G CKT: 1    61.5    61.4    47.0    47.0   125.7   125.6     0.1
SINGLE 3399 : 63041 COAL CR4 - 63001 COAL 42G CKT: 1    61.5    61.4    47.0    47.0   125.7   125.6     0.1
SINGLE 1569 : 60963 T BRF  8 - 60995 IRONMDT8 CKT: 1    61.3    61.3    47.0    47.0   125.2   125.2     0.0
SINGLE 3242 : 60995 IRONMDT8 - 68860 BROCKW_8 CKT: 1    61.3    61.3    47.0    47.0   125.2   125.2     0.0
SINGLE 1568 : 60962 T ALB  8 - 60963 T BRF  8 CKT: 1    61.3    61.3    47.0    47.0   125.2   125.2     0.0
SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    61.1    61.1    47.0    47.0   124.8   124.9    -0.1
SINGLE 3361 : 61948 BYRON  5 - 61906 MAPLE LF CKT: 1    60.8    60.8    47.0    47.0   124.8   124.7     0.1
SINGLE 1332 : 60311 MAYFAIR5 - 60316 TREMVAL5 CKT: 1    60.4    60.4    47.0    47.0   124.6   124.6     0.0
SINGLE 2713 : 34014 ADAMS  5 - 69526 BVR CRK5 CKT: 1    60.3    60.3    47.0    47.0   123.9   123.9     0.0
SINGLE 3219 : 60966 JACKCO 8 - 68860 BROCKW_8 CKT: 1    60.4    60.4    47.0    47.0   123.8   123.7     0.1
SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1    60.3    58.6    47.0    47.0   123.6   124.2    -0.6
SINGLE 2987 : 60302 COULEE 5 - 69523 GENOA  5 CKT: 1    59.8    59.8    47.0    47.0   123.4   123.4     0.0
SINGLE 2934 : 60186 AS KING3 - 60006 KING 31G CKT: 1    60.1    60.1    47.0    47.0   123.2   123.1     0.1
SINGLE 2723 : 34021 LANSINGW - 34024 LANS5 4G CKT: 1    59.7    59.6    47.0    47.0   122.6   122.4     0.2
SINGLE 2991 : 60308 LACROSS5 - 69535 LAC TAP5 CKT: 1    59.1    59.1    47.0    47.0   122.0   122.0     0.0
PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                59.1    59.0    47.0    47.0   121.9   121.7     0.2
            : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
            : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
SINGLE 2923 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1    59.2    59.2    47.0    47.0   121.1   121.1     0.0
SINGLE 2898 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1    59.1    59.1    47.0    47.0   121.0   121.0     0.0
SINGLE 2897 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1    59.1    59.1    47.0    47.0   121.0   121.0     0.0
SINGLE 2917 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1    59.2    59.1    47.0    47.0   121.0   121.0     0.0
880         : ** MULTIPLE CONTINGENCY **                58.8    58.7    47.0    47.0   120.9   120.9     0.0
            : 69523 GENOA  5 - 69527 HARMONY5 CKT: 1
            : 69523 GENOA  5 - 34021 LANSINGW CKT: 1
875       2 : ** MULTIPLE CONTINGENCY **                58.6    58.6    47.0    47.0   120.9   120.8     0.1
            : 60308 LACROSS5 - 69535 LAC TAP5 CKT: 1
            : 60309 MRSHLND5 - 69535 LAC TAP5 CKT: 1
            : 69523 GENOA  5 - 69535 LAC TAP5 CKT: 1
SINGLE 2922 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1    59.1    59.1    47.0    47.0   120.9   120.9     0.0
SINGLE 2993 : 60309 MRSHLND5 - 69543 ALMA   5 CKT: 1    58.4    58.4    47.0    47.0   120.3   120.3     0.0
SINGLE 1559 : 60953 WSTSALE8 - 60973 LAX    8 CKT: 1    57.8    57.8    47.0    47.0   119.0   118.9     0.1
SINGLE 2924 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    56.2    56.2    47.0    47.0   114.8   114.7     0.1
875       1 : ** MULTIPLE CONTINGENCY **                55.5    55.5    47.0    47.0   114.6   114.5     0.1
            : 60302 COULEE 5 - 60308 LACROSS5 CKT: 1
            : 69523 GENOA  5 - 69535 LAC TAP5 CKT: 1
            : 60308 LACROSS5 - 69535 LAC TAP5 CKT: 1
            : 60309 MRSHLND5 - 69535 LAC TAP5 CKT: 1
SINGLE 1325 : 60308 LACROSS5 - 60310 MONROCO5 CKT: 1    46.1    46.1    47.0    47.0    98.0    98.0     0.0
SINGLE 1331 : 60310 MONROCO5 - 60949 MONROCO8 CKT: 1    46.1    46.1    47.0    47.0    98.0    98.0     0.0
SINGLE 2987 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1   .....    94.4   .....    47.0   .....   198.5  *ELIM*
050    2    : ** MULTIPLE CONTINGENCY **               .....    88.4   .....    47.0   .....   182.3  *ELIM*
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
*** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

==========================================================================================================
56) 61601 CENTRDC4 - 66748 CENTER2G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
```

```
-----------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **                477.4   477.4   465.0   465.0   102.7   102.7     0.0
  SINGLE 2195 : 63358 BUFFALO3 - 63369 JAMESTN3 CKT: 1    476.0   475.9   465.0   465.0   102.4   102.4     0.0
  SINGLE 3573 : 66751 CENTER 4 - 66749 CENTER1G CKT: 1    472.3   472.2   465.0   465.0   101.6   101.6     0.0
  SINGLE 2196 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1    472.2   472.1   465.0   465.0   101.5   101.5     0.0
  SINGLE 3574 : 66751 CENTER 4 - 66756 SQBUTTE4 CKT: 1    471.7   471.7   465.0   465.0   101.4   101.4     0.0

=================================================================================================================
  57) 61601 CENTRDC4 - 66756 SQBUTTE4 CKT:  1           PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **                458.1   458.1   478.0   478.0    92.7    92.7     0.0
  SINGLE 2196 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1    455.0   454.9   478.0   478.0    91.2    91.2     0.0
  SINGLE 3573 : 66751 CENTER 4 - 66749 CENTER1G CKT: 1    455.0   455.0   478.0   478.0    91.2    91.2     0.0
  SINGLE 3574 : 66751 CENTER 4 - 66756 SQBUTTE4 CKT: 1    454.7   454.6   478.0   478.0    91.1    91.1     0.0

=================================================================================================================
  58) 61641 HUBBARD7 - 61841 HUBBARD9 CKT:  1           PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **                 13.2    13.2    12.0    12.0   110.1   110.1     0.0

=================================================================================================================
  59) 61641 HUBBARD7 - 61841 HUBBARD9 CKT:  2           PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **                 18.6    18.6    18.0    18.0   103.2   103.2     0.0

=================================================================================================================
  60) 61642 VERNDLE7 - 61842 VERNDLE9 CKT:  1           PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **                 14.2    14.2    12.0    12.0   118.6   118.5     0.1

=================================================================================================================
  61) 61642 VERNDLE7 - 61842 VERNDLE9 CKT:  2           PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **                 13.2    13.2    12.0    12.0   110.1   110.1     0.0

=================================================================================================================
  62) 61642 VERNDLE7 - 61842 VERNDLE9 CKT:  3           PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  BASE CASE   : **       BASE CASE      **                 13.0    13.0    12.0    12.0   108.1   108.1     0.0

=================================================================================================================
  63) 61721 ETCO   7 - 61722 FORBES 7 CKT:  1           PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                106.3   106.2    98.0    98.0   109.5   109.5     0.0
              : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
  050    1    : ** MULTIPLE CONTINGENCY **                105.5   105.4    98.0    98.0   109.1   109.1     0.0
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
  050    2    : ** MULTIPLE CONTINGENCY **                105.9   104.6    98.0    98.0   108.8   107.9     0.9
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
  SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1    104.5   104.4    98.0    98.0   107.5   107.5     0.0
  SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1    100.0    99.9    98.0    98.0   103.0   103.0     0.0
  ASK-CHI/KOL3: ** MULTIPLE CONTINGENCY **                102.0   101.9    98.0    98.0   102.7   102.8    -0.1
              : 60186 AS KING3 - 60199 CHIS CO3 CKT: 1
              : 60186 AS KING3 - 60221 KOLMNLK3 CKT: 1
  SINGLE 2931 : 60175 ROSEAU 4 - 67576 RICHER 4 CKT: 1    100.4   100.3    98.0    98.0   100.8   100.8     0.0
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SINGLE 2930 : 60175 ROSEAU 4 - 66757 MORANVI4 CKT: 1   100.3   100.2    98.0    98.0   100.7   100.7     0.0
CHI-WYO/LIN7: ** MULTIPLE CONTINGENCY **                99.3    99.2    98.0    98.0    99.9   100.0    -0.1
            : 60196 CHI    7 - 60345 WYOMING7 CKT: 1
            : 60196 CHI    7 - 60920 LINDSTM7 CKT: C
SINGLE 1113 : 60186 AS KING3 - 60199 CHIS CO3 CKT: 1    99.2    99.1    98.0    98.0    99.8    99.9    -0.1
SINGLE 3280 : 61051 STCRFL5G - 69565 APL RVR5 CKT: C    98.8    98.7    98.0    98.0    99.4    99.5    -0.1
SINGLE 1140 : 60196 CHI    7 - 60920 LINDSTM7 CKT: C    98.7    98.6    98.0    98.0    99.3    99.3     0.0
SINGLE 1652 : 61051 STCRFL5G - 61131 LAW CRK5 CKT: C    98.7    98.6    98.0    98.0    99.3    99.4    -0.1
SINGLE 3318 : 61128 LAW CRK7 - 62276 SHAFER 7 CKT: C    98.5    98.4    98.0    98.0    99.1    99.1     0.0
SINGLE 3188 : 60920 LINDSTM7 - 62276 SHAFER 7 CKT: C    98.5    98.4    98.0    98.0    99.1    99.2    -0.1
SINGLE 1138 : 60196 CHI    7 - 60199 CHIS CO3 CKT: 1    98.4    98.3    98.0    98.0    99.0    99.0     0.0
SINGLE 1144 : 60199 CHIS CO3 - 60221 KOLMNLK3 CKT: 1    98.3    98.2    98.0    98.0    98.9    98.9     0.0
022      11 : ** MULTIPLE CONTINGENCY **                98.3    98.2    98.0    98.0    98.9    98.9     0.0
            : 60199 CHIS CO3 - 60221 KOLMNLK3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 2
KOL-ASK/CHI3: ** MULTIPLE CONTINGENCY **                98.1    98.0    98.0    98.0    98.7    98.7     0.0
            : 60221 KOLMNLK3 - 60186 AS KING3 CKT: 1
            : 60221 KOLMNLK3 - 60199 CHIS CO3 CKT: 1
PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                98.0    98.0    98.0    98.0    98.7    98.8    -0.1
            : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
            : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1    97.9    96.5    98.0    98.0    98.6    98.6     0.0
022       8 : ** MULTIPLE CONTINGENCY **                98.0    97.9    98.0    98.0    98.5    98.5     0.0
            : 60186 AS KING3 - 60221 KOLMNLK3 CKT: 1
            : 60199 CHIS CO3 - 60221 KOLMNLK3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 2
SINGLE 942  : 60100 FORBECA2 - 60101 FORBES 2 CKT: 1    93.7    93.7    98.0    98.0    97.6    97.5     0.1
825         : ** MULTIPLE CONTINGENCY **                96.9    96.8    98.0    98.0    97.5    97.5     0.0
            : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
            : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
            : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1
SINGLE 1142 : 60197 CHIS CO2 - 61493 CHIS D1Y CKT: 1    96.8    96.7    98.0    98.0    97.4    97.4     0.0
SINGLE 1145 : 60199 CHIS CO3 - 61493 CHIS D1Y CKT: 1    96.8    96.7    98.0    98.0    97.4    97.4     0.0
022      13 : ** MULTIPLE CONTINGENCY **                96.9    96.8    98.0    98.0    97.4    97.5    -0.1
            : 60199 CHIS CO3 - 61493 CHIS D1Y CKT: 1
            : 60653 CHIS T19 - 61493 CHIS D1Y CKT: 1
            : 60197 CHIS CO2 - 61493 CHIS D1Y CKT: 1
022      14 : ** MULTIPLE CONTINGENCY **                96.9    96.8    98.0    98.0    97.4    97.4     0.0
            : 60197 CHIS CO2 - 61494 CHIS D2Y CKT: 1
            : 60199 CHIS CO3 - 61494 CHIS D2Y CKT: 1
            : 60654 CHIS T29 - 61494 CHIS D2Y CKT: 1
SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1    96.7    96.6    98.0    98.0    97.4    97.4     0.0
SINGLE 1146 : 60199 CHIS CO3 - 61494 CHIS D2Y CKT: 1    96.8    96.7    98.0    98.0    97.4    97.4     0.0
SINGLE 1143 : 60197 CHIS CO2 - 61494 CHIS D2Y CKT: 1    96.8    96.7    98.0    98.0    97.4    97.4     0.0
SINGLE 3575 : 66752 DRAYTON4 - 67557 LETELER4 CKT: 1    96.8    96.7    98.0    98.0    97.3    97.3     0.0
SINGLE 2036 : 63040 BLAINE 4 - 63046 BUNKER 4 CKT: 1    96.6    96.5    98.0    98.0    97.1    97.2    -0.1
SINGLE 1118 : 60187 AS KING7 - 60325 WILOWRV7 CKT: 1    96.5    96.4    98.0    98.0    97.1    97.1     0.0
BASE CASE   : **       BASE CASE      **                95.5    95.4    98.0    98.0    96.0    96.0     0.0
GNG-HUR/SAX7: ** MULTIPLE CONTINGENCY **                94.4    94.4    98.0    98.0    94.9    95.0    -0.1
            : 60350 GINGLES7 - 60289 HURLEY 7 CKT: 1
            : 60657 BAYFRT88 - 61104 SAXONP88 CKT: 1
SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    94.3    94.3    98.0    98.0    94.8    94.8     0.0
SINGLE 3590 : 67101 ANTELOP3 - 67107 ANTEL32G CKT: 1    94.3    94.3    98.0    98.0    94.7    94.7     0.0
SINGLE 2981 : 60295 BAYFRNT7 - 69105 PILSEN7  CKT: 1    94.2    94.1    98.0    98.0    94.7    94.7     0.0
SINGLE 2978 : 60291 INOPUMP7 - 69105 PILSEN7  CKT: 1    94.2    94.1    98.0    98.0    94.7    94.7     0.0
SINGLE 3449 : 63314 BIGSTON4 - 63315 BIGSTN1G CKT: 1    94.4    94.3    98.0    98.0    94.7    94.7     0.0
SINGLE 3589 : 67101 ANTELOP3 - 67103 ANTEL31G CKT: 1    94.3    94.3    98.0    98.0    94.7    94.7     0.0
SINGLE 3622 : 67316 COYOTE 3 - 67315 COYOTE1G CKT: 1    94.2    94.1    98.0    98.0    94.6    94.6     0.0
SINGLE 2979 : 60292 IRONRIV7 - 61632 DAHLBRG7 CKT: 1    94.0    94.0    98.0    98.0    94.6    94.6     0.0
SINGLE 1298 : 60291 INOPUMP7 - 60292 IRONRIV7 CKT: 1    94.1    94.0    98.0    98.0    94.6    94.7    -0.1
KOL-CNC/TER3: ** MULTIPLE CONTINGENCY **                94.1    94.0    98.0    98.0    94.6    94.7    -0.1
            : 60221 KOLMNLK3 - 60202 COON CK3 CKT: 1
            : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
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SINGLE 3592 : 67105 LELANDO3 - 67111 LELAN32G CKT: 1    94.3    94.2    98.0    98.0    94.6    94.7    -0.1
SINGLE 2976 : 60290 ST LAKE5 - 61631 MINONG 5 CKT: 1    94.0    93.9    98.0    98.0    94.5    94.5     0.0
022       4 : ** MULTIPLE CONTINGENCY **                94.0    94.0    98.0    98.0    94.5    94.6    -0.1
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
            : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
            : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
            : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
CNC-SHC/BUL3: ** MULTIPLE CONTINGENCY **                94.0    94.0    98.0    98.0    94.5    94.6    -0.1
            : 60202 COON CK3 - 60160 SHERCO 3 CKT: 1
            : 60202 COON CK3 - 63031 BUNKER 3 CKT: 1
BFT-GNG/SAX7: ** MULTIPLE CONTINGENCY **                93.8    93.8    98.0    98.0    94.4    94.4     0.0
            : 60295 BAYFRNT7 - 60350 GINGLES7 CKT: 1
            : 60657 BAYFRT88 - 61104 SAXONP88 CKT: 1
SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    94.0    93.9    98.0    98.0    94.4    94.5    -0.1
SINGLE 2898 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1    93.9    93.8    98.0    98.0    94.3    94.3     0.0
SINGLE 2897 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1    93.9    93.8    98.0    98.0    94.3    94.3     0.0
SINGLE 2923 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1    93.6    93.5    98.0    98.0    94.0    94.0     0.0
SINGLE 2917 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1    93.6    93.5    98.0    98.0    94.0    94.0     0.0
SINGLE 2934 : 60186 AS KING3 - 60006 KING 31G CKT: 1    93.4    93.4    98.0    98.0    93.9    93.9     0.0
SINGLE 2922 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1    93.5    93.4    98.0    98.0    93.9    93.9     0.0
SINGLE 3398 : 63041 COAL CR4 - 63000 COAL 41G CKT: 1    93.5    93.4    98.0    98.0    93.8    93.8     0.0
SINGLE 3399 : 63041 COAL CR4 - 63001 COAL 42G CKT: 1    93.5    93.4    98.0    98.0    93.8    93.8     0.0
SINGLE 1369 : 60361 ROCKCR 4 - 63048 RUSH CY4 CKT: 1    93.4    93.3    98.0    98.0    93.8    93.9    -0.1
765         : ** MULTIPLE CONTINGENCY **                93.4    93.3    98.0    98.0    93.8    93.9    -0.1
            : 63048 RUSH CY4 - 60237 REDROCK4 CKT: 1
            : 60236 REDROCK3 - 60237 REDROCK4 CKT: 1
            : 60361 ROCKCR 4 - 63048 RUSH CY4 CKT: 1
SINGLE 3016 : 60361 ROCKCR 4 - 61580 BEARCK 4 CKT: 1    93.2    93.1    98.0    98.0    93.7    93.7     0.0
SINGLE 2892 : 60101 FORBES 2 - 61550 FORB1JCT CKT: 1    93.2    93.1    98.0    98.0    93.7    93.7     0.0
SINGLE 2893 : 60101 FORBES 2 - 61552 FORB2JCT CKT: 1    93.2    93.1    98.0    98.0    93.7    93.7     0.0
022       1 : ** MULTIPLE CONTINGENCY **                93.0    92.9    98.0    98.0    93.5    93.5     0.0
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
            : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
            : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
            : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
022       3 : ** MULTIPLE CONTINGENCY **                92.4    92.3    98.0    98.0    92.9    92.9     0.0
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
SINGLE 2924 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    92.5    92.4    98.0    98.0    92.8    92.9    -0.1
CNC-KOL/TER3: ** MULTIPLE CONTINGENCY **                92.1    92.0    98.0    98.0    92.6    92.7    -0.1
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1

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 64) 62933 HIGHLND8 - 62934 HOWARDL8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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 SINGLE 3052 : 60717 WAKEFLD8 - 62846 FRHV TP8 CKT: 1    24.7    24.6    13.7    13.7   179.2   178.5     0.7
 SINGLE 3048 : 60705 LUXBGTP8 - 62846 FRHV TP8 CKT: 1    23.4    23.3    13.7    13.7   169.9   169.2     0.7
 SINGLE 3046 : 60705 LUXBGTP8 - 62620 WATKINS8 CKT: 1    22.8    22.7    13.7    13.7   165.6   164.9     0.7
 SINGLE 1776 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1    22.1    22.1    13.7    13.7   163.1   162.7     0.4
 SINGLE 3044 : 60703 WATKINS8 - 62620 WATKINS8 CKT: 1    21.6    21.5    13.7    13.7   157.8   157.2     0.6
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SINGLE 1405 : 60703 WATKINS8 - 60704 KIMBALL8 CKT: 1    21.3    21.2    13.7    13.7   155.2   154.8     0.4
SINGLE 3372 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1    20.4    20.4    13.7    13.7   149.9   149.4     0.5
680         : ** MULTIPLE CONTINGENCY **                20.3    20.3    13.7    13.7   149.2   149.2     0.0
            : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
            : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
SINGLE 2011 : 62938 OTSEGO 8 - 63020 ELK RIV8 CKT: 1    20.1    19.8    13.7    13.7   148.1   146.4     1.7
SINGLE 1785 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1    20.1    20.1    13.7    13.7   147.5   147.1     0.4
SINGLE 1406 : 60704 KIMBALL8 - 60761 SOUTHVN8 CKT: 1    20.0    20.0    13.7    13.7   146.0   145.3     0.7
SINGLE 1410 : 60712 ANNDALE8 - 60761 SOUTHVN8 CKT: 1    19.9    19.9    13.7    13.7   145.2   144.5     0.7
665         : ** MULTIPLE CONTINGENCY **                19.9    19.8    13.7    13.7   144.6   143.9     0.7
            : 63043 ELK RIV4 - 60152 MNTCELO4 CKT: 1
            : 63043 ELK RIV4 - 62134 ELKR14S8 CKT: 1
SINGLE 2021 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1    19.6    19.5    13.7    13.7   143.5   142.9     0.6
SINGLE 1120 : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C    19.6    19.5    13.7    13.7   142.6   141.8     0.8
SINGLE 1365 : 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C    19.7    19.4    13.7    13.7   142.4   140.6     1.8
SINGLE 1121 : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1    19.5    19.4    13.7    13.7   142.2   141.7     0.5
810   C1    : ** MULTIPLE CONTINGENCY **                19.5    19.4    13.7    13.7   142.2   141.7     0.5
            : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1
            : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C
SINGLE 1783 : 62138 BRGGLKS8 - 62139 CABLETP8 CKT: 1    19.4    19.3    13.7    13.7   141.7   141.4     0.3
SINGLE 1069 : 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C    19.5    19.4    13.7    13.7   141.6   140.8     0.8
500         : ** MULTIPLE CONTINGENCY **                19.0    18.8    13.7    13.7   137.7   136.2     1.5
            : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
            : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1
SINGLE 1763 : 62122 WESTEND8 - 62138 BRGGLKS8 CKT: 1    18.8    18.7    13.7    13.7   137.2   136.9     0.3
SINGLE 1157 : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1    18.5    18.4    13.7    13.7   134.3   134.0     0.3
SINGLE 1080 : 60162 WAKEFLD7 - 60717 WAKEFLD8 CKT: 1    18.4    18.4    13.7    13.7   133.6   134.2    -0.6
SINGLE 1998 : 62929 ALBERTV8 - 62938 OTSEGO 8 CKT: 1    18.0    18.0    13.7    13.7   132.6   132.2     0.4
SINGLE 1779 : 62134 ELKR14S8 - 63043 ELK RIV4 CKT: 1    18.2    18.1    13.7    13.7   132.5   131.4     1.1
SINGLE 1060 : 60152 MNTCELO4 - 63043 ELK RIV4 CKT: 1    18.2    18.1    13.7    13.7   132.3   131.6     0.7
CNC-DKN/SHC3: ** MULTIPLE CONTINGENCY **                18.2    18.1    13.7    13.7   132.3   131.8     0.5
            : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1
            : 60202 COON CK3 - 60272 MPLEGV23 CKT: 1
SINGLE 2924 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    18.1    18.1    13.7    13.7   131.8   131.3     0.5
009   4     : ** MULTIPLE CONTINGENCY **                18.1    18.0    13.7    13.7   131.8   131.2     0.6
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 1411 : 60712 ANNDALE8 - 60765 MAPLELK8 CKT: 1    18.0    17.9    13.7    13.7   131.0   130.4     0.6
SINGLE 1795 : 62150 E BL TP8 - 62965 ELKRWS18 CKT: 1    17.7    17.6    13.7    13.7   129.2   128.3     0.9
SINGLE 1732 : 62100 BIG LAK8 - 62150 E BL TP8 CKT: 1    17.7    17.6    13.7    13.7   129.2   128.6     0.6
SINGLE 1034 : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1    17.6    17.5    13.7    13.7   127.8   127.4     0.4
675         : ** MULTIPLE CONTINGENCY **                17.6    17.5    13.7    13.7   127.8   127.4     0.4
            : 60142 BENTON 3 - 63045 BENTON 4 CKT: 1
            : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1
            : 60142 BENTON 3 - 63045 BENTON 4 CKT: 2
SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    17.5    17.4    13.7    13.7   127.1   126.4     0.7
SINGLE 2029 : 62986 HUTCHMN8 - 62988 HTCHHTI8 CKT: 1    17.4    17.4    13.7    13.7   126.9   126.3     0.6
SINGLE 1439 : 60765 MAPLELK8 - 62935 MAPLELK8 CKT: 1    17.4    17.4    13.7    13.7   126.8   126.3     0.5
SINGLE 2051 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1    17.4    17.3    13.7    13.7   126.0   125.5     0.5
SINGLE 1762 : 62122 WESTEND8 - 62125 BECKER 8 CKT: 1    17.3    17.1    13.7    13.7   125.7   124.9     0.8
SINGLE 2922 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1    17.2    17.2    13.7    13.7   125.3   124.8     0.5
SINGLE 2923 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1    17.2    17.1    13.7    13.7   125.3   124.5     0.8
SINGLE 1057 : 60151 MNTCELO3 - 60152 MNTCELO4 CKT: 1    17.2    17.1    13.7    13.7   125.2   124.5     0.7
SINGLE 1379 : 60652 CROWRV 8 - 62931 DELANO 8 CKT: 1    17.2    17.1    13.7    13.7   124.9   124.4     0.5
SINGLE 2917 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1    17.2    17.1    13.7    13.7   124.8   124.6     0.2
SINGLE 2035 : 63031 BUNKER 3 - 63046 BUNKER 4 CKT: 1    17.0    17.0    13.7    13.7   123.9   123.5     0.4
SINGLE 2026 : 62984 HUTCHPT8 - 62988 HTCHHTI8 CKT: 1    17.0    16.9    13.7    13.7   123.5   122.9     0.6
SINGLE 1186 : 60211 GLESNLK7 - 62924 MEDINA 7 CKT: 1    16.8    16.7    13.7    13.7   122.0   121.4     0.6
SINGLE 1780 : 62134 ELKR14S8 - 63043 ELK RIV4 CKT: 2    16.7    16.7    13.7    13.7   121.7   121.2     0.5
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SINGLE 3395 : 62982 HUTCHMN7 - 62616 BIGSWAN7 CKT: 1    16.7    16.7    13.7    13.7   121.7   121.1     0.6
BLL-PRI/IVH3: ** MULTIPLE CONTINGENCY **                16.7    16.6    13.7    13.7   121.2   120.6     0.6
            : 60192 BLUE LK3 - 60105 PR ISLD3 CKT: 1
            : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
SINGLE 1682 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1    16.6    16.6    13.7    13.7   121.1   120.7     0.4
SINGLE 1277 : 60270 MPLEGV13 - 63030 DICKNSN3 CKT: 1    16.7    16.6    13.7    13.7   120.9   120.2     0.7
SINGLE 3359 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1    16.6    16.6    13.7    13.7   120.8   120.7     0.1
SINGLE 1220 : 60233 PARKERS3 - 60270 MPLEGV13 CKT: 1    16.7    16.6    13.7    13.7   120.8   120.6     0.2
SINGLE 1169 : 60206 CROWRVR7 - 62924 MEDINA 7 CKT: 1    16.6    16.5    13.7    13.7   120.3   119.6     0.7
BASE CASE   : **       BASE CASE      **                15.6    15.5    13.7    13.7   113.2   112.6     0.6
SINGLE 1902 : 62437 SVEATAP8 - 62438 LITCHTP8 CKT: 1    14.5   .....    13.7   .....   105.7   .....   *NEW*
ASK-CHI/KOL3: ** MULTIPLE CONTINGENCY **                14.5    14.3    13.7    13.7   104.7   103.9     0.8
            : 60186 AS KING3 - 60199 CHIS CO3 CKT: 1
            : 60186 AS KING3 - 60221 KOLMNLK3 CKT: 1
SHC-CNC/BUL3: ** MULTIPLE CONTINGENCY **                14.4    14.3    13.7    13.7   104.6   104.0     0.6
            : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
            : 60160 SHERCO 3 - 63031 BUNKER 3 CKT: 1
SINGLE 1890 : 62427 WILLMAR8 - 62437 SVEATAP8 CKT: 1    14.4    14.3    13.7    13.7   104.4   104.0     0.4
SINGLE 1758 : 62119 THOMPLK8 - 62137 BCKRNSP8 CKT: 1    14.4    14.3    13.7    13.7   104.4   103.9     0.5
SINGLE 1766 : 62125 BECKER 8 - 62137 BCKRNSP8 CKT: 1    14.4    14.3    13.7    13.7   104.4   103.9     0.5
009   1     : ** MULTIPLE CONTINGENCY **                14.2    14.2    13.7    13.7   103.6   103.1     0.5
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 60151 MNTCELO3 - 60160 SHERCO 3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 2003 : 62932 GOOSELK8 - 62944 GOOSETP8 CKT: 1    14.1    14.1    13.7    13.7   102.6   102.0     0.6
SINGLE 2025 : 62982 HUTCHMN7 - 62986 HUTCHMN8 CKT: 1    14.1    14.0    13.7    13.7   102.6   102.1     0.5
009   5     : ** MULTIPLE CONTINGENCY **                14.1    14.0    13.7    13.7   102.2   101.5     0.7
            : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
            : 63030 DICKNSN3 - 60270 MPLEGV13 CKT: 1
            : 60270 MPLEGV13 - 60233 PARKERS3 CKT: 1
SINGLE 1158 : 60202 COON CK3 - 63031 BUNKER 3 CKT: 1    14.0    14.0    13.7    13.7   102.1   101.8     0.3
PKL-DKN/ECK3: ** MULTIPLE CONTINGENCY **                14.1    14.0    13.7    13.7   102.0   101.5     0.5
            : 60233 PARKERS3 - 60270 MPLEGV13 CKT: 1
            : 60233 PARKERS3 - 60114 ELM CRK3 CKT: 1
SINGLE 975  : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1    13.9    13.8    13.7    13.7   101.3   100.2     1.1
SINGLE 2012 : 62939 SILVERC8 - 62944 GOOSETP8 CKT: 1    13.8    13.8    13.7    13.7   100.6   100.2     0.4
ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                13.9    13.7    13.7    13.7   100.5    99.5     1.0
            : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
022       1 : ** MULTIPLE CONTINGENCY **                13.8    13.7    13.7    13.7    99.8    99.3     0.5
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
            : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
            : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
            : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
SINGLE 1056 : 60150 MNVLTAP4 - 66550 GRANITF4 CKT: 1    13.7    13.7    13.7    13.7    99.8    99.5     0.3
022       3 : ** MULTIPLE CONTINGENCY **                13.7    13.5    13.7    13.7    99.2    98.1     1.1
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
CNC-KOL/TER3: ** MULTIPLE CONTINGENCY **                13.7    13.6    13.7    13.7    99.0    98.3     0.7
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              : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
              : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
  SINGLE 2024 : 62982 HUTCHMN7 - 62983 HUTCH3M7 CKT: 1    13.5    13.4    13.7    13.7    98.2    97.2     1.0
  009   7     : ** MULTIPLE CONTINGENCY **                12.9    12.8    13.7    13.7    93.6    92.8     0.8
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
              : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
              : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
              : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
              : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
  SINGLE 2023 : 62981 MCLEOD 7 - 62983 HUTCH3M7 CKT: 1    12.9    12.8    13.7    13.7    93.4    93.1     0.3
  SINGLE 1170 : 60206 CROWRVR7 - 62925 DICKNSN7 CKT: 1    12.5    12.5    13.7    13.7    90.8    91.2    -0.4
  SINGLE 974  : 60114 ELM CRK3 - 60151 MNTCELO3 CKT: 1    12.5   .....    13.7   .....    90.4   .....   *NEW*

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  65) 62933 HIGHLND8 - 62935 MAPLELK8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  SINGLE 3052 : 60717 WAKEFLD8 - 62846 FRHV TP8 CKT: 1    21.8    21.7    13.7    13.7   162.3   161.5     0.8
  SINGLE 3048 : 60705 LUXBGTP8 - 62846 FRHV TP8 CKT: 1    20.4    20.4    13.7    13.7   152.7   151.9     0.8
  SINGLE 3046 : 60705 LUXBGTP8 - 62620 WATKINS8 CKT: 1    20.0    19.9    13.7    13.7   148.7   147.9     0.8
  SINGLE 1776 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1    18.6    18.5    13.7    13.7   142.7   142.4     0.3
  SINGLE 3044 : 60703 WATKINS8 - 62620 WATKINS8 CKT: 1    18.6    18.5    13.7    13.7   139.6   138.9     0.7
  SINGLE 1405 : 60703 WATKINS8 - 60704 KIMBALL8 CKT: 1    18.3    18.1    13.7    13.7   137.1   136.4     0.7
  SINGLE 3372 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1    17.2    17.1    13.7    13.7   130.3   129.8     0.5
  680         : ** MULTIPLE CONTINGENCY **                17.1    17.1    13.7    13.7   129.7   129.6     0.1
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
  SINGLE 1785 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1    16.9    16.9    13.7    13.7   128.1   127.7     0.4
  SINGLE 1406 : 60704 KIMBALL8 - 60761 SOUTHVN8 CKT: 1    17.1    17.0    13.7    13.7   127.9   127.3     0.6
  SINGLE 2011 : 62938 OTSEGO 8 - 63020 ELK RIV8 CKT: 1    16.6    16.4    13.7    13.7   127.3   125.7     1.6
  SINGLE 1410 : 60712 ANNDALE8 - 60761 SOUTHVN8 CKT: 1    17.0    16.9    13.7    13.7   127.2   126.5     0.7
  665         : ** MULTIPLE CONTINGENCY **                17.0    16.9    13.7    13.7   126.8   126.1     0.7
              : 63043 ELK RIV4 - 60152 MNTCELO4 CKT: 1
              : 63043 ELK RIV4 - 62134 ELKR14S8 CKT: 1
  SINGLE 1365 : 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C    17.0    16.8    13.7    13.7   125.7   124.1     1.6
  SINGLE 1069 : 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C    16.9    16.8    13.7    13.7   125.2   124.2     1.0
  SINGLE 1120 : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C    16.8    16.7    13.7    13.7   125.2   124.4     0.8
  SINGLE 1121 : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1    16.7    16.7    13.7    13.7   124.9   124.3     0.6
  810   C1    : ** MULTIPLE CONTINGENCY **                16.7    16.7    13.7    13.7   124.9   124.4     0.5
              : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1
              : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C
  SINGLE 2021 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1    16.4    16.3    13.7    13.7   123.9   123.3     0.6
  SINGLE 1783 : 62138 BRGGLKS8 - 62139 CABLETP8 CKT: 1    16.2    16.2    13.7    13.7   122.5   122.1     0.4
  500         : ** MULTIPLE CONTINGENCY **                16.3    16.2    13.7    13.7   120.9   119.6     1.3
              : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
              : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1
  SINGLE 1763 : 62122 WESTEND8 - 62138 BRGGLKS8 CKT: 1    15.7    15.6    13.7    13.7   118.2   117.7     0.5
  SINGLE 1157 : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1    15.7    15.6    13.7    13.7   116.7   116.3     0.4
  SINGLE 1080 : 60162 WAKEFLD7 - 60717 WAKEFLD8 CKT: 1    15.6    15.5    13.7    13.7   116.0   115.8     0.2
  CNC-DKN/SHC3: ** MULTIPLE CONTINGENCY **                15.4    15.3    13.7    13.7   114.7   114.2     0.5
              : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1
              : 60202 COON CK3 - 60272 MPLEGV23 CKT: 1
  SINGLE 1779 : 62134 ELKR14S8 - 63043 ELK RIV4 CKT: 1    15.4    15.2    13.7    13.7   114.6   113.5     1.1
  SINGLE 1060 : 60152 MNTCELO4 - 63043 ELK RIV4 CKT: 1    15.4    15.3    13.7    13.7   114.4   113.7     0.7
  009   4     : ** MULTIPLE CONTINGENCY **                15.3    15.3    13.7    13.7   114.2   113.6     0.6
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
              : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
              : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
              : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
              : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
  SINGLE 2924 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    15.3    15.2    13.7    13.7   114.0   113.5     0.5
  SINGLE 1411 : 60712 ANNDALE8 - 60765 MAPLELK8 CKT: 1    15.1    15.0    13.7    13.7   112.6   112.0     0.6
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SINGLE 1998 : 62929 ALBERTV8 - 62938 OTSEGO 8 CKT: 1    14.8    14.7    13.7    13.7   112.3   111.9     0.4
SINGLE 1795 : 62150 E BL TP8 - 62965 ELKRWS18 CKT: 1    14.7    14.5    13.7    13.7   110.0   109.1     0.9
SINGLE 1732 : 62100 BIG LAK8 - 62150 E BL TP8 CKT: 1    14.7    14.6    13.7    13.7   110.0   109.3     0.7
SINGLE 1034 : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1    14.8    14.7    13.7    13.7   109.8   109.4     0.4
675         : ** MULTIPLE CONTINGENCY **                14.8    14.7    13.7    13.7   109.8   109.4     0.4
            : 60142 BENTON 3 - 63045 BENTON 4 CKT: 1
            : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1
            : 60142 BENTON 3 - 63045 BENTON 4 CKT: 2
SINGLE 2029 : 62986 HUTCHMN8 - 62988 HTCHHTI8 CKT: 1    14.7    14.6    13.7    13.7   109.3   108.7     0.6
SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    14.7    14.6    13.7    13.7   109.2   108.5     0.7
SINGLE 2051 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1    14.7    14.6    13.7    13.7   108.6   108.1     0.5
SINGLE 1439 : 60765 MAPLELK8 - 62935 MAPLELK8 CKT: 1    14.6    14.5    13.7    13.7   108.6   108.0     0.6
SINGLE 2922 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1    14.4    14.4    13.7    13.7   107.4   107.0     0.4
SINGLE 2923 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1    14.4    14.3    13.7    13.7   107.3   106.7     0.6
SINGLE 1057 : 60151 MNTCELO3 - 60152 MNTCELO4 CKT: 1    14.4    14.3    13.7    13.7   107.1   106.4     0.7
SINGLE 1762 : 62122 WESTEND8 - 62125 BECKER 8 CKT: 1    14.3    14.2    13.7    13.7   107.1   106.3     0.8
SINGLE 2917 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1    14.4    14.3    13.7    13.7   106.8   106.6     0.2
SINGLE 1379 : 60652 CROWRV 8 - 62931 DELANO 8 CKT: 1    14.4    14.3    13.7    13.7   106.7   106.1     0.6
SINGLE 2035 : 63031 BUNKER 3 - 63046 BUNKER 4 CKT: 1    14.2    14.1    13.7    13.7   105.8   105.3     0.5
SINGLE 2026 : 62984 HUTCHPT8 - 62988 HTCHHTI8 CKT: 1    14.2    14.1    13.7    13.7   105.5   104.9     0.6
SINGLE 1186 : 60211 GLESNLK7 - 62924 MEDINA 7 CKT: 1    14.0    13.9    13.7    13.7   103.8   103.2     0.6
SINGLE 3395 : 62982 HUTCHMN7 - 62616 BIGSWAN7 CKT: 1    13.9    13.9    13.7    13.7   103.7   103.1     0.6
SINGLE 1780 : 62134 ELKR14S8 - 63043 ELK RIV4 CKT: 2    13.9    13.9    13.7    13.7   103.6   103.0     0.6
BLL-PRI/IVH3: ** MULTIPLE CONTINGENCY **                13.9    13.8    13.7    13.7   103.2   102.6     0.6
            : 60192 BLUE LK3 - 60105 PR ISLD3 CKT: 1
            : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
SINGLE 1277 : 60270 MPLEGV13 - 63030 DICKNSN3 CKT: 1    13.9    13.8    13.7    13.7   102.9   102.3     0.6
SINGLE 1682 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1    13.8    13.8    13.7    13.7   102.9   102.6     0.3
SINGLE 1220 : 60233 PARKERS3 - 60270 MPLEGV13 CKT: 1    13.9    13.8    13.7    13.7   102.8   102.4     0.4
SINGLE 3359 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1    13.8    13.8    13.7    13.7   102.7   102.6     0.1
BASE CASE   : **       BASE CASE      **                12.8    12.7    13.7    13.7    94.9    94.3     0.6

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66) 62934 HOWARDL8 - 62943 VICTOR 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 3052 : 60717 WAKEFLD8 - 62846 FRHV TP8 CKT: 1    29.2    29.1    17.3    17.3   166.6   166.0     0.6
SINGLE 3048 : 60705 LUXBGTP8 - 62846 FRHV TP8 CKT: 1    27.9    27.8    17.3    17.3   159.7   159.1     0.6
SINGLE 1776 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1    27.2    27.1    17.3    17.3   157.5   157.2     0.3
SINGLE 3046 : 60705 LUXBGTP8 - 62620 WATKINS8 CKT: 1    27.3    27.2    17.3    17.3   156.0   155.4     0.6
SINGLE 3044 : 60703 WATKINS8 - 62620 WATKINS8 CKT: 1    26.3    26.2    17.3    17.3   151.1   150.6     0.5
SINGLE 1405 : 60703 WATKINS8 - 60704 KIMBALL8 CKT: 1    25.9    25.9    17.3    17.3   149.0   149.0     0.0
SINGLE 3372 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1    25.3    25.3    17.3    17.3   146.2   145.9     0.3
SINGLE 2011 : 62938 OTSEGO 8 - 63020 ELK RIV8 CKT: 1    25.1    24.9    17.3    17.3   145.6   144.4     1.2
680         : ** MULTIPLE CONTINGENCY **                25.3    25.3    17.3    17.3   145.6   145.6     0.0
            : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
            : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
SINGLE 1785 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1    25.0    25.0    17.3    17.3   144.2   143.9     0.3
SINGLE 1406 : 60704 KIMBALL8 - 60761 SOUTHVN8 CKT: 1    24.7    24.6    17.3    17.3   141.5   141.1     0.4
SINGLE 2021 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1    24.5    24.4    17.3    17.3   141.2   140.7     0.5
SINGLE 1410 : 60712 ANNDALE8 - 60761 SOUTHVN8 CKT: 1    24.6    24.5    17.3    17.3   140.9   140.4     0.5
665         : ** MULTIPLE CONTINGENCY **                24.5    24.4    17.3    17.3   140.3   139.7     0.6
            : 63043 ELK RIV4 - 60152 MNTCELO4 CKT: 1
            : 63043 ELK RIV4 - 62134 ELKR14S8 CKT: 1
SINGLE 1783 : 62138 BRGGLKS8 - 62139 CABLETP8 CKT: 1    24.2    24.2    17.3    17.3   139.4   139.2     0.2
SINGLE 1120 : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C    24.1    24.0    17.3    17.3   138.2   137.6     0.6
SINGLE 1121 : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1    24.0    24.0    17.3    17.3   138.0   137.6     0.4
810   C1    : ** MULTIPLE CONTINGENCY **                24.0    24.0    17.3    17.3   138.0   137.5     0.5
            : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1
            : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C
SINGLE 1365 : 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C    24.0    23.8    17.3    17.3   137.2   135.9     1.3
SINGLE 1069 : 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C    23.9    23.8    17.3    17.3   136.6   136.0     0.6
SINGLE 1763 : 62122 WESTEND8 - 62138 BRGGLKS8 CKT: 1    23.6    23.6    17.3    17.3   135.7   135.5     0.2
500         : ** MULTIPLE CONTINGENCY **                23.4    23.2    17.3    17.3   133.6   132.5     1.1
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            : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
            : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1
SINGLE 1998 : 62929 ALBERTV8 - 62938 OTSEGO 8 CKT: 1    23.1    23.0    17.3    17.3   133.2   132.9     0.3
SINGLE 1157 : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1    23.1    23.0    17.3    17.3   131.9   131.8     0.1
SINGLE 1779 : 62134 ELKR14S8 - 63043 ELK RIV4 CKT: 1    22.9    22.8    17.3    17.3   130.9   130.2     0.7
SINGLE 1060 : 60152 MNTCELO4 - 63043 ELK RIV4 CKT: 1    22.8    22.7    17.3    17.3   130.7   130.1     0.6
CNC-DKN/SHC3: ** MULTIPLE CONTINGENCY **                22.8    22.7    17.3    17.3   130.4   130.1     0.3
            : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1
            : 60202 COON CK3 - 60272 MPLEGV23 CKT: 1
SINGLE 1411 : 60712 ANNDALE8 - 60765 MAPLELK8 CKT: 1    22.7    22.6    17.3    17.3   130.2   129.8     0.4
SINGLE 2924 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    22.7    22.7    17.3    17.3   130.2   129.9     0.3
009   4     : ** MULTIPLE CONTINGENCY **                22.7    22.6    17.3    17.3   130.1   129.6     0.5
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 1795 : 62150 E BL TP8 - 62965 ELKRWS18 CKT: 1    22.5    22.4    17.3    17.3   129.5   128.9     0.6
SINGLE 1732 : 62100 BIG LAK8 - 62150 E BL TP8 CKT: 1    22.5    22.5    17.3    17.3   129.5   129.1     0.4
SINGLE 1034 : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1    22.3    22.2    17.3    17.3   127.3   127.0     0.3
675         : ** MULTIPLE CONTINGENCY **                22.3    22.2    17.3    17.3   127.3   127.0     0.3
            : 60142 BENTON 3 - 63045 BENTON 4 CKT: 1
            : 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1
            : 60142 BENTON 3 - 63045 BENTON 4 CKT: 2
SINGLE 2029 : 62986 HUTCHMN8 - 62988 HTCHHTI8 CKT: 1    22.1    22.1    17.3    17.3   126.8   126.3     0.5
SINGLE 1439 : 60765 MAPLELK8 - 62935 MAPLELK8 CKT: 1    22.1    22.1    17.3    17.3   126.8   126.4     0.4
SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    22.1    22.0    17.3    17.3   126.7   126.1     0.6
SINGLE 1762 : 62122 WESTEND8 - 62125 BECKER 8 CKT: 1    22.0    21.9    17.3    17.3   126.3   125.6     0.7
SINGLE 1057 : 60151 MNTCELO3 - 60152 MNTCELO4 CKT: 1    21.9    21.8    17.3    17.3   125.4   124.7     0.7
SINGLE 2051 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1    21.9    21.9    17.3    17.3   125.3   124.9     0.4
SINGLE 2922 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1    21.9    21.8    17.3    17.3   125.3   124.8     0.5
SINGLE 1379 : 60652 CROWRV 8 - 62931 DELANO 8 CKT: 1    21.9    21.9    17.3    17.3   125.2   124.8     0.4
SINGLE 2923 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1    21.9    21.7    17.3    17.3   125.2   124.6     0.6
SINGLE 2917 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1    21.8    21.8    17.3    17.3   124.9   124.8     0.1
SINGLE 2035 : 63031 BUNKER 3 - 63046 BUNKER 4 CKT: 1    21.7    21.7    17.3    17.3   124.4   124.1     0.3
SINGLE 2026 : 62984 HUTCHPT8 - 62988 HTCHHTI8 CKT: 1    21.6    21.6    17.3    17.3   124.0   123.5     0.5
SINGLE 1186 : 60211 GLESNLK7 - 62924 MEDINA 7 CKT: 1    21.5    21.5    17.3    17.3   123.0   122.5     0.5
SINGLE 1780 : 62134 ELKR14S8 - 63043 ELK RIV4 CKT: 2    21.4    21.4    17.3    17.3   122.6   122.2     0.4
SINGLE 3395 : 62982 HUTCHMN7 - 62616 BIGSWAN7 CKT: 1    21.4    21.3    17.3    17.3   122.5   122.0     0.5
SINGLE 1682 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1    21.3    21.3    17.3    17.3   122.3   121.8     0.5
BLL-PRI/IVH3: ** MULTIPLE CONTINGENCY **                21.4    21.3    17.3    17.3   122.1   121.6     0.5
            : 60192 BLUE LK3 - 60105 PR ISLD3 CKT: 1
            : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
SINGLE 3359 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1    21.3    21.3    17.3    17.3   122.0   121.8     0.2
SINGLE 1277 : 60270 MPLEGV13 - 63030 DICKNSN3 CKT: 1    21.3    21.2    17.3    17.3   121.8   121.3     0.5
SINGLE 1169 : 60206 CROWRVR7 - 62924 MEDINA 7 CKT: 1    21.3    21.2    17.3    17.3   121.8   121.2     0.6
SINGLE 1220 : 60233 PARKERS3 - 60270 MPLEGV13 CKT: 1    21.3    21.3    17.3    17.3   121.7   121.8    -0.1
BASE CASE   : **       BASE CASE      **                20.3    20.2    17.3    17.3   116.1   115.7     0.4
SINGLE 1380 : 60652 CROWRV 8 - 62943 VICTOR 8 CKT: 1    18.9    18.8    17.3    17.3   110.8   110.2     0.6
SINGLE 1890 : 62427 WILLMAR8 - 62437 SVEATAP8 CKT: 1    19.2    19.1    17.3    17.3   109.7   109.4     0.3
SHC-CNC/BUL3: ** MULTIPLE CONTINGENCY **                19.2    19.1    17.3    17.3   109.7   109.2     0.5
            : 60160 SHERCO 3 - 60202 COON CK3 CKT: 1
            : 60160 SHERCO 3 - 63031 BUNKER 3 CKT: 1
ASK-CHI/KOL3: ** MULTIPLE CONTINGENCY **                19.2    19.1    17.3    17.3   109.7   109.0     0.7
            : 60186 AS KING3 - 60199 CHIS CO3 CKT: 1
            : 60186 AS KING3 - 60221 KOLMNLK3 CKT: 1
SINGLE 1766 : 62125 BECKER 8 - 62137 BCKRNSP8 CKT: 1    19.1    19.0    17.3    17.3   109.4   109.0     0.4
SINGLE 1758 : 62119 THOMPLK8 - 62137 BCKRNSP8 CKT: 1    19.1    19.0    17.3    17.3   109.4   109.0     0.4
SINGLE 2025 : 62982 HUTCHMN7 - 62986 HUTCHMN8 CKT: 1    19.0    19.0    17.3    17.3   108.9   108.5     0.4
009   1     : ** MULTIPLE CONTINGENCY **                19.0    18.9    17.3    17.3   108.8   108.4     0.4
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
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            : 60151 MNTCELO3 - 60160 SHERCO 3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 1158 : 60202 COON CK3 - 63031 BUNKER 3 CKT: 1    18.8    18.8    17.3    17.3   107.6   107.5     0.1
009   5     : ** MULTIPLE CONTINGENCY **               18.8    18.7    17.3    17.3   107.6   107.0     0.6
            : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
            : 63030 DICKNSN3 - 60270 MPLEGV13 CKT: 1
            : 60270 MPLEGV13 - 60233 PARKERS3 CKT: 1
PKL-DKN/ECK3: ** MULTIPLE CONTINGENCY **               18.8    18.7    17.3    17.3   107.5   107.0     0.5
            : 60233 PARKERS3 - 60270 MPLEGV13 CKT: 1
            : 60233 PARKERS3 - 60114 ELM CRK3 CKT: 1
SINGLE 2003 : 62932 GOOSELK8 - 62944 GOOSETP8 CKT: 1    18.8    18.7    17.3    17.3   107.3   106.9     0.4
SINGLE 975  : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1    18.7    18.5    17.3    17.3   107.1   106.3     0.8
SINGLE 2012 : 62939 SILVERC8 - 62944 GOOSETP8 CKT: 1    18.6    18.5    17.3    17.3   106.5   106.1     0.4
SINGLE 1056 : 60150 MNVLTAP4 - 66550 GRANITF4 CKT: 1    18.6    18.5    17.3    17.3   106.4   106.1     0.3
ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **               18.6    18.5    17.3    17.3   106.2   105.3     0.9
            : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
022       1 : ** MULTIPLE CONTINGENCY **               18.5    18.5    17.3    17.3   105.9   105.5     0.4
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
            : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
            : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
            : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
022       3 : ** MULTIPLE CONTINGENCY **               18.5    18.2    17.3    17.3   105.4   104.3     1.1
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
SINGLE 2024 : 62982 HUTCHMN7 - 62983 HUTCH3M7 CKT: 1    18.4    18.2    17.3    17.3   105.2   104.3     0.9
CNC-KOL/TER3: ** MULTIPLE CONTINGENCY **               18.4    18.3    17.3    17.3   105.2   104.7     0.5
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
SINGLE 2023 : 62981 MCLEOD 7 - 62983 HUTCH3M7 CKT: 1    17.8    17.7    17.3    17.3   101.5   101.3     0.2
009   7     : ** MULTIPLE CONTINGENCY **               17.7    17.6    17.3    17.3   101.1   100.5     0.6
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SINGLE 974  : 60114 ELM CRK3 - 60151 MNTCELO3 CKT: 1    17.3    17.2    17.3    17.3    98.9    98.4     0.5
CNC-SHC/BUL3: ** MULTIPLE CONTINGENCY **               17.3    17.1    17.3    17.3    98.7    97.8     0.9
            : 60202 COON CK3 - 60160 SHERCO 3 CKT: 1
            : 60202 COON CK3 - 63031 BUNKER 3 CKT: 1
SINGLE 2027 : 62985 HUTCHPK8 - 62986 HUTCHMN8 CKT: 1    17.0    17.0    17.3    17.3    97.5    97.5     0.0
710   2     : ** MULTIPLE CONTINGENCY **               16.9    16.9    17.3    17.3    96.9    97.4    -0.5
            : 62925 DICKNSN7 - 60206 CROWRVR7 CKT: 1
            : 62925 DICKNSN7 - 62667 ST BONI7 CKT: 1
            : 62667 ST BONI7 - 60277 WWACNIA7 CKT: 1
            : 62667 ST BONI7 - 63021 ST BONI8 CKT: 1
SINGLE 2022 : 62980 MCLEOD 4 - 62981 MCLEOD 7 CKT: 1    16.7    16.6    17.3    17.3    95.6    94.9     0.7
SINGLE 1997 : 62925 DICKNSN7 - 63030 DICKNSN3 CKT: 1    16.6    16.6    17.3    17.3    95.4    95.2     0.2
SINGLE 2008 : 62935 MAPLELK8 - 63024 MAPLE 1G CKT: 1    16.6    16.6    17.3    17.3    94.9    94.5     0.4
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SINGLE 2017 : 62944 GOOSETP8 - 63024 MAPLE 1G CKT: 1    16.6    16.6    17.3    17.3    94.9    94.5     0.4
009   2     : ** MULTIPLE CONTINGENCY **               16.3    16.2    17.3    17.3    93.4    92.9     0.5
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
            : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1
            : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
            : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
            : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
            : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
SHC-CNC/ECK3: ** MULTIPLE CONTINGENCY **               15.9    15.9    17.3    17.3    91.3    90.8     0.5
            : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
            : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1
SINGLE 1168 : 60206 CROWRVR7 - 60652 CROWRV 8 CKT: 1    15.5    15.4    17.3    17.3    91.2    90.3     0.9

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 67) 62980 MCLEOD 4 - 63054 PANTHER4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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 SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   333.9   331.8   319.0   319.0   114.2   113.2     1.0
 SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   318.0   315.9   319.0   319.0   109.0   108.0     1.0
 SINGLE 1069 : 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C   321.8   319.9   319.0   319.0   107.6   106.7     0.9
 SINGLE 1008 : 60130 SPLTRTA3 - 66537 WHITE  3 CKT: 1   310.2   308.9   319.0   319.0   105.2   104.7     0.5
 SINGLE 1001 : 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1   310.2   309.0   319.0   319.0   105.2   104.7     0.5
 SINGLE 1068 : 60156 PYNSVIL7 - 60162 WAKEFLD7 CKT: C   295.9   294.3   319.0   319.0    97.8    97.1     0.7
 SINGLE 20   : 34006 LAKEFLD3 - 60286 NOBLES 3 CKT: C   293.1   291.6   319.0   319.0    97.7    97.1     0.6
 SINGLE 1002 : 60126 SPLT RK3 - 60131 SPLTRTB3 CKT: 1   291.4   289.6   319.0   319.0    97.0    96.3     0.7
 SINGLE 1009 : 60131 SPLTRTB3 - 66564 SIOUXCY3 CKT: 1   291.4   289.6   319.0   319.0    97.0    96.3     0.7
 SINGLE 1292 : 60287 NOBLES 7 - 60369 FENTON 7 CKT: C   290.5   288.9   319.0   319.0    96.9    96.3     0.6
 SINGLE 1013 : 60133 SHEYNNE4 - 63336 AUDUBON4 CKT: 1   288.7   287.1   319.0   319.0    95.9    95.3     0.6
 SINGLE 21   : 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1   286.4   284.1   319.0   319.0    95.1    94.1     1.0
 SINGLE 1176 : 60208 EDINA  7 - 60280 NINE MI7 CKT: 1   287.0   285.3   319.0   319.0    95.0    94.3     0.7
 SINGLE 32   : 34009 WINBAGO5 - 61932 RUTLAND5 CKT: 1   286.1   284.6   319.0   319.0    95.0    94.3     0.7
 SINGLE 1053 : 60148 MINVALY7 - 61954 REDFLST7 CKT: P   284.6   283.0   319.0   319.0    94.9    94.2     0.7
 SINGLE 1275 : 60265 LOON TP7 - 60830 EASTWD18 CKT: P   286.5   284.8   319.0   319.0    94.9    94.2     0.7
 SINGLE 1175 : 60208 EDINA  7 - 60263 EDEN PR7 CKT: 1   285.7   284.4   319.0   319.0    94.9    94.2     0.7
 SINGLE 1042 : 60145 FRANKLN7 - 61954 REDFLST7 CKT: P   284.5   282.9   319.0   319.0    94.7    93.9     0.8
 SINGLE 28   : 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1   285.0   283.2   319.0   319.0    94.5    93.8     0.7
 SINGLE 1271 : 60258 WILSON 7 - 60280 NINE MI7 CKT: 1   285.8   284.1   319.0   319.0    94.5    93.8     0.7
 SINGLE 1000 : 60125 PATHFDR7 - 60129 SPLT RK7 CKT: 1   284.6   283.1   319.0   319.0    94.4    93.8     0.6
 SINGLE 974  : 60114 ELM CRK3 - 60151 MNTCELO3 CKT: 1   285.2   283.3   319.0   319.0    94.4    93.7     0.7
 SINGLE 994  : 60123 PIPESTN7 - 60125 PATHFDR7 CKT: 1   284.5   283.1   319.0   319.0    94.4    93.8     0.6
 SINGLE 1113 : 60186 AS KING3 - 60199 CHIS CO3 CKT: 1   284.6   282.9   319.0   319.0    94.3    93.6     0.7
 SINGLE 1196 : 60217 INVRHLS3 - 60218 INVRHLS7 CKT: 1   284.2   282.8   319.0   319.0    94.3    93.6     0.7
 SINGLE 1130 : 60193 BLUE LK7 - 61476 BLL TR5Y CKT: 5   284.6   283.0   319.0   319.0    94.3    93.6     0.7
 SINGLE 1131 : 60193 BLUE LK7 - 61477 BLL TR6Y CKT: 6   284.7   283.1   319.0   319.0    94.3    93.6     0.7
 SINGLE 964  : 60110 WILMART7 - 60194 CARVRCO7 CKT: 1   284.7   283.1   319.0   319.0    94.3    93.6     0.7
 SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1   284.6   283.0   319.0   319.0    94.2    93.5     0.7
 SINGLE 952  : 60107 W FARIB7 - 60265 LOON TP7 CKT: C   284.8   283.1   319.0   319.0    94.2    93.5     0.7
 SINGLE 1144 : 60199 CHIS CO3 - 60221 KOLMNLK3 CKT: 1   284.4   282.7   319.0   319.0    94.2    93.5     0.7
 SINGLE 1014 : 60133 SHEYNNE4 - 66435 FARGO  4 CKT: 1   284.4   282.8   319.0   319.0    94.1    93.4     0.7
 SINGLE 1039 : 60144 DGLASCO7 - 63222 ALEXAND7 CKT: 1   284.2   282.7   319.0   319.0    94.1    93.4     0.7
 SINGLE 1129 : 60193 BLUE LK7 - 60215 HYLNDLK7 CKT: 1   283.2   281.8   319.0   319.0    94.0    93.3     0.7
 SINGLE 46   : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1   283.9   282.3   319.0   319.0    94.0    93.3     0.7
 SINGLE 33   : 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1   283.7   282.0   319.0   319.0    93.9    93.2     0.7
 SINGLE 1272 : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 1   283.6   281.9   319.0   319.0    93.9    93.2     0.7
 SINGLE 1273 : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 2   283.4   281.7   319.0   319.0    93.8    93.1     0.7
 SINGLE 942  : 60100 FORBECA2 - 60101 FORBES 2 CKT: 1   284.3   282.5   319.0   319.0    93.8    93.1     0.7
 SINGLE 970  : 60112 FTRIDLY7 - 60145 FRANKLN7 CKT: 1   282.5   281.1   319.0   319.0    93.8    93.1     0.7
 SINGLE 1223 : 60234 PARKERS7 - 60259 BASCRK 7 CKT: 1   282.7   281.0   319.0   319.0    93.6    92.8     0.8
 SINGLE 1128 : 60192 BLUE LK3 - 60262 EDEN PR3 CKT: 1   282.9   280.9   319.0   319.0    93.6    92.9     0.7
 SINGLE 992  : 60122 LAWRENC7 - 60834 LAWRENC8 CKT: 1   282.9   281.2   319.0   319.0    93.6    92.9     0.7
 SINGLE 1132 : 60194 CARVRCO7 - 60243 SCOTTAP7 CKT: 1   282.9   281.4   319.0   319.0    93.5    92.8     0.7
 SINGLE 1179 : 60209 ELLOTPK7 - 60246 SO TOWN7 CKT: 1   282.4   280.7   319.0   319.0    93.5    92.8     0.7
 SINGLE 975  : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1   282.8   281.4   319.0   319.0    93.5    92.8     0.7
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SINGLE 1213	: 60227 MEDLAKE7 - 60259 BASCRK 7 CKT: 1	282.6	280.9	319.0	319.0	93.5	92.8	0.7
SINGLE 42	: 34014 ADAMS 5 - 34015 LIME CK5 CKT: 1	282.6	281.0	319.0	319.0	93.5	92.8	0.7
SINGLE 1221	: 60233 PARKERS3 - 61489 PKLMID2Y CKT: 1	282.6	280.8	319.0	319.0	93.4	92.7	0.7
SINGLE 1222	: 60233 PARKERS3 - 61490 PKLMID1Y CKT: 1	282.6	280.8	319.0	319.0	93.4	92.7	0.7
SINGLE 1143	: 60197 CHIS CO2 - 61494 CHIS D2Y CKT: 1	282.3	.....	319.0	.....	93.4	.....	*NEW*
SINGLE 1224	: 60234 PARKERS7 - 60346 CEDARLK7 CKT: P	282.7	281.2	319.0	319.0	93.4	92.8	0.6
SINGLE 1225	: 60234 PARKERS7 - 61489 PKLMID2Y CKT: 1	282.6	280.9	319.0	319.0	93.4	92.7	0.7
SINGLE 1226	: 60234 PARKERS7 - 61490 PKLMID1Y CKT: 1	282.6	280.9	319.0	319.0	93.4	92.7	0.7
SINGLE 1230	: 60236 REDROCK3 - 60238 REDROCK7 CKT: P	282.5	280.8	319.0	319.0	93.4	92.7	0.7
SINGLE 1231	: 60236 REDROCK3 - 60238 REDROCK7 CKT: P	282.5	280.8	319.0	319.0	93.4	92.7	0.7
SINGLE 1254	: 60249 STLSPRK7 - 60346 CEDARLK7 CKT: P	282.7	281.2	319.0	319.0	93.4	92.7	0.7
SINGLE 109	: 34047 ANTA TP5 - 66561 DENISON5 CKT: 1	282.4	280.7	319.0	319.0	93.4	92.7	0.7
SINGLE 1192	: 60214 HIBRDGE7 - 60239 ROGRSLK7 CKT: 1	282.7	281.2	319.0	319.0	93.4	92.7	0.7
SINGLE 1146	: 60199 CHIS CO3 - 61494 CHIS D2Y CKT: 1	282.3	.....	319.0	.....	93.4	.....	*NEW*
SINGLE 1198	: 60218 INVRHLS7 - 60220 INVRGRV7 CKT: 1	282.3	.....	319.0	.....	93.4	.....	*NEW*
SINGLE 1142	: 60197 CHIS CO2 - 61493 CHIS D1Y CKT: 1	282.3	.....	319.0	.....	93.4	.....	*NEW*
SINGLE 1059	: 60151 MNTCELO3 - 60160 SHERCO 3 CKT: 1	282.2	280.8	319.0	319.0	93.3	92.6	0.7
SINGLE 1076	: 60159 STCTPW 7 - 60162 WAKEFLD7 CKT: 1	282.3	.....	319.0	.....	93.3	.....	*NEW*
SINGLE 1145	: 60199 CHIS CO3 - 61493 CHIS D1Y CKT: 1	282.3	.....	319.0	.....	93.3	.....	*NEW*
SINGLE 5	: 6012 G253INT - 34003 MAGNLIA5 CKT: 1	282.3	.....	319.0	.....	93.3	.....	*NEW*
SINGLE 1259	: 60252 TERMINL7 - 60275 PRIOR 7 CKT: 1	282.2	280.8	319.0	319.0	93.3	92.6	0.7
SINGLE 1050	: 60148 MINVALY7 - 60357 MAYNARD7 CKT: 1	282.3	281.0	319.0	319.0	93.2	92.5	0.7
SINGLE 962	: 60110 WILMART7 - 60111 BODE 7 CKT: 1	279.8	278.2	319.0	319.0	93.0	92.3	0.7
BASE CASE	: ** BASE CASE **	281.2	279.7	319.0	319.0	92.9	92.2	0.7
SINGLE 1062	: 60153 MNTCELO7 - 60166 SALIDA 7 CKT: 1	280.2	278.4	319.0	319.0	92.6	91.9	0.7
SINGLE 1040	: 60145 FRANKLN7 - 60728 FRANKLN8 CKT: 1	279.5	278.1	319.0	319.0	92.5	91.8	0.7
SINGLE 1041	: 60145 FRANKLN7 - 60728 FRANKLN8 CKT: 2	279.5	278.1	319.0	319.0	92.5	91.8	0.7
SINGLE 1082	: 60163 WST CLD7 - 60732 WST CLD8 CKT: 1	280.0	278.2	319.0	319.0	92.5	91.8	0.7
SINGLE 1335	: 60313 PINE LK7 - 60325 WILOWRV7 CKT: 1	280.2	278.7	319.0	319.0	92.5	91.8	0.7
SINGLE 1147	: 60200 BLK DG27 - 60258 WILSON 7 CKT: 2	280.2	278.7	319.0	319.0	92.4	91.8	0.6
SINGLE 1118	: 60187 AS KING7 - 60325 WILOWRV7 CKT: 1	279.9	278.4	319.0	319.0	92.4	91.7	0.7
SINGLE 1240	: 60239 ROGRSLK7 - 60278 LONEOK27 CKT: 2	280.0	278.5	319.0	319.0	92.4	91.7	0.7
SINGLE 1241	: 60239 ROGRSLK7 - 60334 LONE OA7 CKT: 1	280.0	278.5	319.0	319.0	92.4	91.7	0.7
SINGLE 1043	: 60146 GRANCTY7 - 60161 STREGIS7 CKT: 1	280.1	278.5	319.0	319.0	92.3	91.7	0.6
SINGLE 1119	: 60188 RIVERWD7 - 60200 BLK DG27 CKT: 1	280.1	278.6	319.0	319.0	92.3	91.7	0.6
SINGLE 1122	: 60190 BLK DOG7 - 60242 SAVAGE 7 CKT: 1	279.2	277.7	319.0	319.0	92.2	91.5	0.7
SINGLE 1034	: 60142 BENTON 3 - 60160 SHERCO 3 CKT: 1	278.3	276.4	319.0	319.0	92.0	91.3	0.7
SINGLE 1157	: 60202 COON CK3 - 63030 DICKNSN3 CKT: 1	277.9	276.2	319.0	319.0	91.9	91.2	0.7
SINGLE 1236	: 60238 REDROCK7 - 60336 NSSJCT 7 CKT: 1	278.6	277.2	319.0	319.0	91.9	91.2	0.7
SINGLE 1361	: 60336 NSSJCT 7 - 60337 NSSTAP 7 CKT: 1	278.6	277.2	319.0	319.0	91.9	91.2	0.7
SINGLE 1362	: 60337 NSSTAP 7 - 60338 NSSTL 7 CKT: 1	278.6	277.2	319.0	319.0	91.9	91.2	0.7
SINGLE 984	: 60119 LKYNKTN7 - 60171 LYON CO7 CKT: C	278.1	275.7	319.0	319.0	91.5	90.8	0.7
SINGLE 1270	: 60258 WILSON 7 - 60260 BLOOMGT7 CKT: 1	275.4	274.1	319.0	319.0	91.4	90.8	0.6
SINGLE 1123	: 60190 BLK DOG7 - 60258 WILSON 7 CKT: 1	277.2	275.8	319.0	319.0	91.4	90.8	0.6
SINGLE 1124	: 60190 BLK DOG7 - 60258 WILSON 7 CKT: 3	277.2	275.7	319.0	319.0	91.4	90.8	0.6
SINGLE 1003	: 60126 SPLT RK3 - 60286 NOBLES 3 CKT: C	276.8	275.3	319.0	319.0	91.2	90.5	0.7
SINGLE 983	: 60119 LKYNKTN7 - 60171 LYON CO7 CKT: 1	277.0	275.5	319.0	319.0	91.2	90.6	0.6
SINGLE 1049	: 60148 MINVALY7 - 60171 LYON CO7 CKT: 1	276.0	274.5	319.0	319.0	91.1	90.4	0.7
SINGLE 985	: 60119 LKYNKTN7 - 60279 BUFFRID7 CKT: 1	276.6	275.0	319.0	319.0	91.0	90.4	0.6
SINGLE 1085	: 60170 MARSHAL7 - 60171 LYON CO7 CKT: 1	274.5	273.0	319.0	319.0	90.8	90.1	0.7
SINGLE 941	: 60015 ANSON CG - 61475 ANS TR2Y CKT: 2	275.6	274.0	319.0	319.0	90.7	90.0	0.7
SINGLE 940	: 60015 ANSON CG - 60129 SPLT RK7 CKT: 1	275.6	274.0	319.0	319.0	90.7	90.0	0.7
SINGLE 4	: 6010 ELLSBRO - 60362 CHANRMB7 CKT: 1	275.6	.....	319.0	.....	90.6	.....	*NEW*
SINGLE 3	: 6010 ELLSBRO - 60119 LKYNKTN7 CKT: 1	275.6	.....	319.0	.....	90.6	.....	*NEW*
SINGLE 967	: 60111 BODE 7 - 60112 FTRIDLY7 CKT: 1	.....	278.7	.....	319.0	.....	92.4	*ELIM*
SINGLE 1073	: 60158 STCLTP 7 - 60166 SALIDA 7 CKT: 1	.....	278.6	.....	319.0	.....	92.1	*ELIM*
SINGLE 1229	: 60236 REDROCK3 - 60238 REDROCK7 CKT: P	.....	280.8	.....	319.0	.....	92.7	*ELIM*
SINGLE 1363	: 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C	.....	319.3	.....	319.0	.....	106.7	*ELIM*
SINGLE 1365	: 60357 MAYNARD7 - 62005 KERKHOT7 CKT: 1	.....	281.4	.....	319.0	.....	92.7	*ELIM*
SINGLE 1368	: 60362 CHANRMB7 - 60369 FENTON 7 CKT: C	.....	282.6	.....	319.0	.....	93.6	*ELIM*
SINGLE 1370	: 60371 ERIE RD7 - 66508 S3 7 CKT: 1	.....	275.5	.....	319.0	.....	91.0	*ELIM*
SINGLE 1387	: 60677 HENRYTR8 - 60718 BIRDISL8 CKT: C	.....	277.4	.....	319.0	.....	91.6	*ELIM*
SINGLE 1389	: 60683 MINNVAL8 - 60687 BUSH PK8 CKT: 1	.....	282.5	.....	319.0	.....	93.1	*ELIM*

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SINGLE 1391 : 60683 MINNVAL8 - 60693 SACRDHT8 CKT: 1   .....   282.3   .....   319.0   .....    93.0  *ELIM*
*** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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68) 62985 HUTCHPK8 - 62986 HUTCHMN8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
BASE CASE   : **       BASE CASE      **                56.1    56.1    52.1    52.1   106.5   106.4     0.1
ASK-CHI/KOL3: ** MULTIPLE CONTINGENCY **                55.1   .....    52.1   .....   104.3   .....   *NEW*
            : 60186 AS KING3 - 60199 CHIS CO3 CKT: 1
            : 60186 AS KING3 - 60221 KOLMNLK3 CKT: 1
BEN-GRC/SCL7: ** MULTIPLE CONTINGENCY **                55.0   .....    52.1   .....   104.3   .....   *NEW*
            : 60143 BENTON 7 - 60146 GRANCTY7 CKT: 1
            : 60143 BENTON 7 - 60348 BENCTP7  CKT: 1
            : 60348 BENCTP7  - 60157 STCLOUD7 CKT: 1
009   5     : ** MULTIPLE CONTINGENCY **                55.1   .....    52.1   .....   104.3   .....   *NEW*
            : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
            : 63030 DICKNSN3 - 60270 MPLEGV13 CKT: 1
            : 60270 MPLEGV13 - 60233 PARKERS3 CKT: 1
SINGLE 3095 : 60759 STJOSPH8 - 62843 LSAUKTP8 CKT: 1    55.0   .....    52.1   .....   104.2   .....   *NEW*
SINGLE 3071 : 60732 WST CLD8 - 62843 LSAUKTP8 CKT: 1    55.0   .....    52.1   .....   104.2   .....   *NEW*
SINGLE 2894 : 60102 ADAMS  3 - 63032 PL VLLY3 CKT: 1    55.0    54.6    52.1    52.1   104.1   103.4     0.7
PKL-DKN/ECK3: ** MULTIPLE CONTINGENCY **                54.9   .....    52.1   .....   104.0   .....   *NEW*
            : 60233 PARKERS3 - 60270 MPLEGV13 CKT: 1
            : 60233 PARKERS3 - 60114 ELM CRK3 CKT: 1
SINGLE 1902 : 62437 SVEATAP8 - 62438 LITCHTP8 CKT: 1    54.9    54.5    52.1    52.1   104.0   103.3     0.7
SINGLE 1893 : 62427 WILLMAR8 - 63050 WILLMAR4 CKT: 1    54.7   .....    52.1   .....   103.6   .....   *NEW*
SINGLE 2023 : 62981 MCLEOD 7 - 62983 HUTCH3M7 CKT: 1    54.6    54.2    52.1    52.1   103.4   102.7     0.7
SINGLE 3394 : 62981 MCLEOD 7 - 60898 GLENCOE  CKT: C    54.5    54.1    52.1    52.1   103.3   102.6     0.7
SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1    54.4    54.1    52.1    52.1   103.2   102.5     0.7
SINGLE 3622 : 67316 COYOTE 3 - 67315 COYOTE1G CKT: 1    54.5    54.1    52.1    52.1   103.2   102.5     0.7
SINGLE 3590 : 67101 ANTELOP3 - 67107 ANTEL32G CKT: 1    54.4    54.0    52.1    52.1   103.0   102.3     0.7
SINGLE 3589 : 67101 ANTELOP3 - 67103 ANTEL31G CKT: 1    54.4    54.0    52.1    52.1   103.0   102.3     0.7
SINGLE 3592 : 67105 LELANDO3 - 67111 LELAN32G CKT: 1    54.3    53.9    52.1    52.1   102.8   102.0     0.8
SINGLE 1904 : 62439 HUTCHTP8 - 62987 HUTCHCP8 CKT: 1    54.2    53.9    52.1    52.1   102.7   102.0     0.7
SINGLE 2028 : 62986 HUTCHMN8 - 62987 HUTCHCP8 CKT: 1    54.2    53.9    52.1    52.1   102.7   102.0     0.7
SINGLE 1903 : 62438 LITCHTP8 - 62439 HUTCHTP8 CKT: 1    54.1    53.7    52.1    52.1   102.5   101.8     0.7
SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1    54.1    53.7    52.1    52.1   102.5   101.8     0.7
SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1    54.0    53.6    52.1    52.1   102.4   101.6     0.8
825         : ** MULTIPLE CONTINGENCY **                53.9    53.6    52.1    52.1   102.2   101.5     0.7
            : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
            : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
            : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1
SINGLE 942  : 60100 FORBECA2 - 60101 FORBES 2 CKT: 1    54.0    53.4    52.1    52.1   102.2   101.2     1.0
SINGLE 3398 : 63041 COAL CR4 - 63000 COAL 41G CKT: 1    53.8    53.4    52.1    52.1   102.0   101.2     0.8
SINGLE 3399 : 63041 COAL CR4 - 63001 COAL 42G CKT: 1    53.8    53.4    52.1    52.1   102.0   101.2     0.8
050    3    : ** MULTIPLE CONTINGENCY **                53.9    53.4    52.1    52.1   102.0   101.2     0.8
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 39901 COC DPC  - 38342 COC 69   CKT: 1
            : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
SINGLE 3397 : 62986 HUTCHMN8 - 62603 HSSNJCT8 CKT: 1    53.4    53.1    52.1    52.1   101.2   100.6     0.6
050    2    : ** MULTIPLE CONTINGENCY **                53.3    52.7    52.1    52.1   101.0    99.9     1.1
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
050    1    : ** MULTIPLE CONTINGENCY **                52.8    52.4    52.1    52.1   100.0    99.3     0.7
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
            : 39901 COC DPC  - 38342 COC 69   CKT: 1
            : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                52.7    52.5    52.1    52.1    99.7    99.5     0.2
            : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
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            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
SINGLE 3449 : 63314 BIGSTON4 - 63315 BIGSTN1G CKT: 1    52.3    51.9    52.1    52.1    99.0    98.3     0.7
SINGLE 2024 : 62982 HUTCHMN7 - 62983 HUTCH3M7 CKT: 1    51.6    51.5    52.1    52.1    97.7    97.5     0.2
SINGLE 2026 : 62984 HUTCHPT8 - 62988 HTCHHTI8 CKT: 1    51.6    51.2    52.1    52.1    97.7    97.1     0.6
SINGLE 2029 : 62986 HUTCHMN8 - 62988 HTCHHTI8 CKT: 1    50.6    50.3    52.1    52.1    95.9    95.3     0.6
SINGLE 1120 : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C    49.7    49.5    52.1    52.1    94.1    93.7     0.4
SINGLE 2025 : 62982 HUTCHMN7 - 62986 HUTCHMN8 CKT: 1    49.3    49.2    52.1    52.1    93.4    93.1     0.3
SINGLE 1080 : 60163 WST CLD7 - 60732 WST CLD8 CKT: 1   .....    54.8   .....    52.1   .....   103.8  *ELIM*
SINGLE 1888 : 62427 WILLMAR8 - 62437 SVEATAP8 CKT: 1   .....    55.1   .....    52.1   .....   104.3  *ELIM*
SINGLE 2698 :  6001 YANKEE 7 -  6002 YANKGEN  CKT: 1   .....    54.9   .....    52.1   .....   104.1  *ELIM*
SINGLE 3019 : 60650 WILMART8 - 62336 JHNSNTP8 CKT: 1   .....    55.0   .....    52.1   .....   104.2  *ELIM*
SINGLE 3054 : 60719 LAFAYET8 - 62079 LAFAYTT8 CKT: 1   .....    55.0   .....    52.1   .....   104.3  *ELIM*
SINGLE 3571 : 66751 CENTER 4 - 66749 CENTER1G CKT: 1   .....    55.1   .....    52.1   .....   104.3  *ELIM*
SINGLE 3573 : 66752 DRAYTON4 - 67557 LETELER4 CKT: 1   .....    55.0   .....    52.1   .....   104.3  *ELIM*
022       1 : ** MULTIPLE CONTINGENCY **               .....    54.9   .....    52.1   .....   104.1  *ELIM*
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
            : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
            : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
            : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
            : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
            : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
            : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
            : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
SINGLE 3594 : 67131 LARAMIE3 - 67118 LARAM31G CKT: 1   .....    55.0   .....    52.1   .....   104.3  *ELIM*

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 69) 63041 COAL CR4 - 63000 COAL 41G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 3399 : 63041 COAL CR4 - 63001 COAL 42G CKT: 1   627.5   627.5   566.0   566.0   110.9   110.9     0.0
SINGLE 2199 : 63369 JAMESTN3 - 66791 CENTER 3 CKT: 1   591.3   591.3   566.0   566.0   104.5   104.5     0.0
SINGLE 2180 : 63290 HARVEY 4 - 63381 UNDERWD4 CKT: 1   591.4   591.4   566.0   566.0   104.5   104.5     0.0
SINGLE 2196 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1   591.1   590.9   566.0   566.0   104.4   104.4     0.0
SINGLE 2042 : 63041 COAL CR4 - 63381 UNDERWD4 CKT: 1   590.7   590.6   566.0   566.0   104.4   104.4     0.0
SINGLE 2195 : 63358 BUFFALO3 - 63369 JAMESTN3 CKT: 1   591.1   590.9   566.0   566.0   104.4   104.4     0.0
SINGLE 2046 : 63044 MCHENRY4 - 63056 BALTA  4 CKT: 1   590.4   590.4   566.0   566.0   104.3   104.3     0.0
SINGLE 2038 : 63041 COAL CR4 - 63042 COAL TP4 CKT: 1   590.3   590.3   566.0   566.0   104.3   104.3     0.0
SINGLE 2572 : 66751 CENTER 4 - 67342 HESKETT4 CKT: 1   590.4   590.4   566.0   566.0   104.3   104.3     0.0
SINGLE 2043 : 63042 COAL TP4 - 63044 MCHENRY4 CKT: 1   590.5   590.3   566.0   566.0   104.3   104.3     0.0
BASE CASE   : **       BASE CASE      **              589.2   589.2   566.0   566.0   104.1   104.1     0.0
SINGLE 2047 : 63047 RAMSEY 4 - 63056 BALTA  4 CKT: 1   587.9   587.8   566.0   566.0   103.9   103.9     0.0
SINGLE 3589 : 67101 ANTELOP3 - 67103 ANTEL31G CKT: 1   588.1   588.1   566.0   566.0   103.9   103.9     0.0
SINGLE 3590 : 67101 ANTELOP3 - 67107 ANTEL32G CKT: 1   588.1   588.1   566.0   566.0   103.9   103.9     0.0
SINGLE 3592 : 67105 LELANDO3 - 67111 LELAN32G CKT: 1   588.1   588.0   566.0   566.0   103.9   103.9     0.0
SINGLE 3622 : 67316 COYOTE 3 - 67315 COYOTE1G CKT: 1   588.1   588.0   566.0   566.0   103.9   103.9     0.0
SINGLE 3400 : 63049 STANTON4 - 63002 STANT41G CKT: 1   587.6   587.6   566.0   566.0   103.8   103.8     0.0
SINGLE 2049 : 63047 RAMSEY 4 - 66755 PRAIRIE4 CKT: 1   587.6   587.6   566.0   566.0   103.8   103.8     0.0
SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1   587.6   .....   566.0   .....   103.8   .....   *NEW*

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 70) 63041 COAL CR4 - 63001 COAL 42G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
SINGLE 3398 : 63041 COAL CR4 - 63000 COAL 41G CKT: 1   627.5   627.5   590.0   590.0   106.4   106.4     0.0
SINGLE 2195 : 63358 BUFFALO3 - 63369 JAMESTN3 CKT: 1   591.1   590.9   590.0   590.0   100.2   100.2     0.0
SINGLE 2196 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1   591.1   590.9   590.0   590.0   100.2   100.1     0.1
SINGLE 2199 : 63369 JAMESTN3 - 66791 CENTER 3 CKT: 1   591.3   591.3   590.0   590.0   100.2   100.2     0.0
SINGLE 2180 : 63290 HARVEY 4 - 63381 UNDERWD4 CKT: 1   591.4   591.4   590.0   590.0   100.2   100.2     0.0
SINGLE 2042 : 63041 COAL CR4 - 63381 UNDERWD4 CKT: 1   590.7   590.6   590.0   590.0   100.1   100.1     0.0
SINGLE 2043 : 63042 COAL TP4 - 63044 MCHENRY4 CKT: 1   590.5   590.3   590.0   590.0   100.1   100.1     0.0
SINGLE 2046 : 63044 MCHENRY4 - 63056 BALTA  4 CKT: 1   590.4   590.4   590.0   590.0   100.1   100.1     0.0
SINGLE 2572 : 66751 CENTER 4 - 67342 HESKETT4 CKT: 1   590.4   590.4   590.0   590.0   100.1   100.1     0.0
SINGLE 2038 : 63041 COAL CR4 - 63042 COAL TP4 CKT: 1   590.3   590.3   590.0   590.0   100.1   100.0     0.1
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BASE CASE   : **       BASE CASE      **                589.2   589.2   590.0   590.0    99.9    99.9     0.0
SINGLE 3589 : 67101 ANTELOP3 - 67103 ANTEL31G CKT: 1   588.1   588.1   590.0   590.0    99.7    99.7     0.0
SINGLE 3590 : 67101 ANTELOP3 - 67107 ANTEL32G CKT: 1   588.1   588.1   590.0   590.0    99.7    99.7     0.0
SINGLE 3592 : 67105 LELANDO3 - 67111 LELAN32G CKT: 1   588.1   588.0   590.0   590.0    99.7    99.7     0.0
SINGLE 3622 : 67316 COYOTE 3 - 67315 COYOTE1G CKT: 1   588.1   588.0   590.0   590.0    99.7    99.7     0.0
SINGLE 3400 : 63049 STANTON4 - 63002 STANT41G CKT: 1   587.6   587.6   590.0   590.0    99.6    99.6     0.0
SINGLE 2049 : 63047 RAMSEY 4 - 66755 PRAIRIE4 CKT: 1   587.6   587.6   590.0   590.0    99.6    99.6     0.0
SINGLE 2047 : 63047 RAMSEY 4 - 63056 BALTA  4 CKT: 1   587.9   587.8   590.0   590.0    99.6    99.6     0.0
SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1   587.6   .....   590.0   .....    99.6   .....   *NEW*

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71) 63049 STANTON4 - 63002 STANT41G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
SINGLE 3573 : 66751 CENTER 4 - 66749 CENTER1G CKT: 1   203.7   203.7   210.0   210.0    97.0    97.0     0.0
SINGLE 3574 : 66751 CENTER 4 - 66756 SQBUTTE4 CKT: 1   202.5   202.5   210.0   210.0    96.4    96.4     0.0
SINGLE 2572 : 66751 CENTER 4 - 67342 HESKETT4 CKT: 1   197.3   197.3   210.0   210.0    94.0    93.9     0.1
SINGLE 3593 : 67106 LELANDO4 - 67110 LELAN41G CKT: 1   196.3   196.3   210.0   210.0    93.5    93.5     0.0
SINGLE 2199 : 63369 JAMESTN3 - 66791 CENTER 3 CKT: 1   196.1   196.1   210.0   210.0    93.4    93.4     0.0
SINGLE 3587 : 66791 CENTER 3 - 66756 SQBUTTE4 CKT: 1   195.9   195.9   210.0   210.0    93.3    93.3     0.0
SINGLE 2587 : 66791 CENTER 3 - 67316 COYOTE 3 CKT: 1   195.6   195.6   210.0   210.0    93.2    93.1     0.1
BASE CASE   : **       BASE CASE      **                194.6   194.6   210.0   210.0    92.7    92.7     0.0

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72) 63314 BIGSTON4 - 63315 BIGSTN1G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
SINGLE 2076 : 63195 BIGSTONY - 63214 BIGSTON7 CKT: 1   472.5   472.3   471.5   471.5   100.2   100.2     0.0
SINGLE 2077 : 63195 BIGSTONY - 63314 BIGSTON4 CKT: 1   472.4   472.2   471.5   471.5   100.2   100.2     0.0
SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   471.8   471.4   471.5   471.5   100.1   100.0     0.1
SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   471.0   470.7   471.5   471.5    99.9    99.8     0.1
SINGLE 2446 : 66503 BLAIR  4 - 66530 WATERTN4 CKT: 1   470.9   470.7   471.5   471.5    99.9    99.8     0.1
SINGLE 1008 : 60130 SPLTRTA3 - 66537 WHITE  3 CKT: 1   470.6   470.5   471.5   471.5    99.8    99.8     0.0
SINGLE 2096 : 63214 BIGSTON7 - 63215 HIWY12 7 CKT: 1   470.8   470.6   471.5   471.5    99.8    99.8     0.0
SINGLE 2097 : 63215 HIWY12 7 - 63216 ORTONVL7 CKT: 1   470.8   470.6   471.5   471.5    99.8    99.8     0.0
SINGLE 1001 : 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1   470.5   470.5   471.5   471.5    99.8    99.8     0.0
SINGLE 2501 : 66530 WATERTN4 - 66550 GRANITF4 CKT: 1   470.6   470.4   471.5   471.5    99.8    99.8     0.0
SINGLE 2196 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1   469.7   469.5   471.5   471.5    99.6    99.6     0.0
BEN-GRC/SCL7: ** MULTIPLE CONTINGENCY **               469.8   469.7   471.5   471.5    99.6    99.6     0.0
            : 60143 BENTON 7 - 60146 GRANCTY7 CKT: 1
            : 60143 BENTON 7 - 60348 BENCTP7  CKT: 1
            : 60348 BENCTP7  - 60157 STCLOUD7 CKT: 1
SINGLE 2917 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1   469.7   469.6   471.5   471.5    99.6    99.6     0.0
SINGLE 2922 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1   469.7   469.6   471.5   471.5    99.6    99.6     0.0
SINGLE 2923 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1   469.6   469.5   471.5   471.5    99.6    99.6     0.0
BASE CASE   : **       BASE CASE      **                468.5   468.4   471.5   471.5    99.4    99.4     0.0
SINGLE 3592 : 67105 LELANDO3 - 67111 LELAN32G CKT: 1   467.5   .....   471.5   .....    99.2   .....   *NEW*
SINGLE 3398 : 63041 COAL CR4 - 63000 COAL 41G CKT: 1   467.4   467.4   471.5   471.5    99.1    99.1     0.0
SINGLE 3399 : 63041 COAL CR4 - 63001 COAL 42G CKT: 1   467.4   467.4   471.5   471.5    99.1    99.1     0.0
SINGLE 2447 : 66503 BLAIR  4 - 66550 GRANITF4 CKT: 1   467.4   467.4   471.5   471.5    99.1    99.1     0.0
SINGLE 1011 : 60133 SHEYNNE4 - 63336 AUDUBON4 CKT: 1   .....   469.5   .....   471.5   .....    99.6  *ELIM*

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73) 63875 RAUN   3 - 63883 NEAL  3G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   545.9   544.5   560.0   560.0    97.5    97.2     0.3
SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1   536.3   535.2   560.0   560.0    95.8    95.6     0.2
SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   535.7   534.5   560.0   560.0    95.7    95.4     0.3
SINGLE 3521 : 66506 FTTHOMP3 - 66571 GR ISLD3 CKT: 1   535.7   .....   560.0   .....    95.7   .....   *NEW*
SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   532.7   531.9   560.0   560.0    95.1    95.0     0.1
SINGLE 2894 : 60102 ADAMS  3 - 63032 PL VLLY3 CKT: 1   531.3   530.4   560.0   560.0    94.9    94.7     0.2
SINGLE 2515 : 66562 EAGLE  4 - 66578 PAHOJA 4 CKT: 1   528.2   527.6   560.0   560.0    94.3    94.2     0.1
SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1   527.8   527.1   560.0   560.0    94.3    94.1     0.2
SINGLE 2494 : 66523 SIOUXFL4 - 66578 PAHOJA 4 CKT: 1   527.9   527.2   560.0   560.0    94.3    94.1     0.2
SINGLE 2775 : 34093 ARNOLD 3 - 64352 TIFFIN 3 CKT: 1   527.4   526.5   560.0   560.0    94.2    94.0     0.2
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SINGLE 21	: 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1	527.7	526.7	560.0	560.0	94.2	94.0	0.2
SINGLE 32	: 34009 WINBAGO5 - 61932 RUTLAND5 CKT: 1	527.7	526.9	560.0	560.0	94.2	94.1	0.1
SINGLE 2704	: 34006 LAKEFLD3 - 63875 RAUN 3 CKT: 1	526.9	526.2	560.0	560.0	94.1	94.0	0.1
SINGLE 247	: 34137 TRIBOJI5 - 66563 SPENCER5 CKT: 1	527.2	527.2	560.0	560.0	94.1	94.1	0.0
SINGLE 33	: 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1	526.7	526.0	560.0	560.0	94.1	93.9	0.2
SINGLE 2520	: 66565 SIOUXCY4 - 66567 DENISON4 CKT: 1	526.8	526.0	560.0	560.0	94.1	93.9	0.2
SINGLE 992	: 60122 LAWRENC7 - 60834 LAWRENC8 CKT: 1	526.2	525.5	560.0	560.0	94.0	93.8	0.2
SINGLE 2496	: 66526 UTICAJC4 - 66536 RASMUSN4 CKT: 1	526.4	525.7	560.0	560.0	94.0	93.9	0.1
SINGLE 28	: 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1	526.5	525.7	560.0	560.0	94.0	93.9	0.1
SINGLE 2907	: 60126 SPLT RK3 - 61495 SPLTRK1Y CKT: 1	526.7	525.9	560.0	560.0	94.0	93.9	0.1
SINGLE 2908	: 60126 SPLT RK3 - 61496 SPLTRK2Y CKT: 1	526.7	525.9	560.0	560.0	94.0	93.9	0.1
SINGLE 2909	: 60129 SPLT RK7 - 61495 SPLTRK1Y CKT: 1	526.7	525.9	560.0	560.0	94.0	93.9	0.1
SINGLE 2910	: 60129 SPLT RK7 - 61496 SPLTRK2Y CKT: 1	526.7	525.9	560.0	560.0	94.0	93.9	0.1
SINGLE 2916	: 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1	526.7	526.0	560.0	560.0	94.0	93.9	0.1
SINGLE 3393	: 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1	526.2	525.6	560.0	560.0	94.0	93.9	0.1
SINGLE 2470	: 66509 FTRANDL4 - 66565 SIOUXCY4 CKT: 1	526.6	.....	560.0	.....	94.0	.....	*NEW*
SINGLE 2200	: 65009 WAYSIDE4 - 66484 NUNDRWD4 CKT: 1	525.9	525.2	560.0	560.0	93.9	93.8	0.1
SINGLE 2719	: 34016 EMERY 5 - 64252 FLOYD 5 CKT: 1	525.8	525.0	560.0	560.0	93.9	93.7	0.2
SINGLE 2744	: 34054 GR JCT 5 - 63771 DRAGER 5 CKT: 1	525.8	525.1	560.0	560.0	93.9	93.8	0.1
SINGLE 2236	: 66236 WATERT1T - 66529 WATERTN3 CKT: 1	526.1	525.4	560.0	560.0	93.9	93.8	0.1
SINGLE 2237	: 66236 WATERT1T - 66530 WATERTN4 CKT: 1	526.1	525.4	560.0	560.0	93.9	93.8	0.1
SINGLE 24	: 34007 LAKEFLD5 - 34137 TRIBOJI5 CKT: 1	525.9	525.7	560.0	560.0	93.9	93.9	0.0
SINGLE 1236	: 60238 REDROCK7 - 60336 NSSJCT 7 CKT: 1	525.6	525.0	560.0	560.0	93.9	93.7	0.2
SINGLE 1275	: 60265 LOON TP7 - 60830 EASTWD18 CKT: P	525.7	525.0	560.0	560.0	93.9	93.7	0.2
SINGLE 2505	: 66536 RASMUSN4 - 66565 SIOUXCY4 CKT: 1	526.1	525.5	560.0	560.0	93.9	93.8	0.1
SINGLE 2513	: 66561 DENISON5 - 66567 DENISON4 CKT: 1	525.7	524.9	560.0	560.0	93.9	93.7	0.2
SINGLE 1361	: 60336 NSSJCT 7 - 60337 NSSTAP 7 CKT: 1	525.6	525.0	560.0	560.0	93.9	93.7	0.2
SINGLE 1362	: 60337 NSSTAP 7 - 60338 NSSTL 7 CKT: 1	525.6	525.0	560.0	560.0	93.9	93.7	0.2
SINGLE 2302	: 66306 SIOUXC2T - 66565 SIOUXCY4 CKT: 1	525.4	524.8	560.0	560.0	93.8	93.7	0.1
SINGLE 1491	: 60834 LAWRENC8 - 60863 SF M2 T8 CKT: 1	525.6	524.9	560.0	560.0	93.8	93.7	0.1
SINGLE 1506	: 60851 SX FLS 8 - 60863 SF M2 T8 CKT: 1	525.4	524.7	560.0	560.0	93.8	93.7	0.1
SINGLE 1696	: 61948 BYRON 5 - 61964 OWATNNA5 CKT: 1	525.5	524.8	560.0	560.0	93.8	93.7	0.1
SINGLE 1764	: 62123 WOODCRT8 - 62132 PRKWOOD8 CKT: 1	525.4	524.8	560.0	560.0	93.8	93.7	0.1
SINGLE 1120	: 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C	525.5	524.8	560.0	560.0	93.8	93.7	0.1
SINGLE 1121	: 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1	525.5	524.8	560.0	560.0	93.8	93.7	0.1
SINGLE 1043	: 60146 GRANCTY7 - 60161 STREGIS7 CKT: 1	525.4	524.8	560.0	560.0	93.8	93.7	0.1
SINGLE 2529	: 66580 SPENCR 8 - 66581 SPENCER8 CKT: 1	525.5	524.7	560.0	560.0	93.8	93.7	0.1
SINGLE 2598	: 67101 ANTELOP3 - 67218 AVSDC7TY CKT: 1	525.4	524.8	560.0	560.0	93.8	93.7	0.1
SINGLE 2300	: 66303 SIOUXC1T - 66565 SIOUXCY4 CKT: 1	525.5	524.9	560.0	560.0	93.8	93.7	0.1
BASE CASE	: ** BASE CASE **	524.3	523.7	560.0	560.0	93.6	93.5	0.1
SINGLE 2723	: 34021 LANSINGW - 34024 LANS5 4G CKT: 1	523.1	522.4	560.0	560.0	93.4	93.3	0.1
SINGLE 46	: 34015 LIME CK5 - 34016 EMERY 5 CKT: 1	523.0	522.4	560.0	560.0	93.4	93.3	0.1
SINGLE 2315	: 66402 MI CTYW4 - 66450 MT WEST4 CKT: 1	523.2	522.6	560.0	560.0	93.4	93.3	0.1
SINGLE 2595	: 67101 ANTELOP3 - 67120 HURON 3 CKT: 1	523.2	522.6	560.0	560.0	93.4	93.3	0.1
SINGLE 2462	: 66507 FTTHOMP4 - 66541 BIGBND24 CKT: 1	522.8	522.2	560.0	560.0	93.4	93.2	0.2
SINGLE 2613	: 67120 HURON 3 - 67204 BRDLNDTY CKT: 1	523.2	522.6	560.0	560.0	93.4	93.3	0.1
SINGLE 2635	: 67204 BRDLNDTY - 67205 BRDLAND4 CKT: 1	523.2	522.6	560.0	560.0	93.4	93.3	0.1
SINGLE 2702	: 6450 PRIMGHAR - 6460 GI0304F1 CKT: 1	523.3	.....	560.0	.....	93.4	.....	*NEW*
SINGLE 2188	: 63314 BIGSTON4 - 66503 BLAIR 4 CKT: 1	523.0	522.4	560.0	560.0	93.4	93.3	0.1
SINGLE 3367	: 62001 BENSON 7 - 60374 FIBROMN7 CKT: 1	523.2	522.6	560.0	560.0	93.4	93.3	0.1
SINGLE 2706	: 34008 FOX LK 5 - 34011 FOXLK53G CKT: 1	522.8	522.2	560.0	560.0	93.4	93.3	0.1
SINGLE 3485	: 66303 SIOUXC1T - 66304 SIOUXC19 CKT: 1	523.1	522.5	560.0	560.0	93.4	93.3	0.1
SINGLE 3486	: 66306 SIOUXC2T - 66305 SIOUXC29 CKT: 1	523.1	522.5	560.0	560.0	93.4	93.3	0.1
SINGLE 2482	: 66514 HURON 4 - 67205 BRDLAND4 CKT: 1	523.2	522.6	560.0	560.0	93.4	93.3	0.1
SINGLE 3331	: 61475 ANS TR2Y - 60021 ANS 72G CKT: 2	522.4	521.8	560.0	560.0	93.3	93.2	0.1
SINGLE 3332	: 61475 ANS TR2Y - 60022 ANS 73G CKT: 2	522.4	521.8	560.0	560.0	93.3	93.2	0.1
SINGLE 1130	: 60193 BLUE LK7 - 61476 BLL TR5Y CKT: 5	522.6	522.0	560.0	560.0	93.3	93.2	0.1
SINGLE 2805	: 34137 TRIBOJI5 - 63897 G298SYS CKT: 1	522.3	521.8	560.0	560.0	93.3	93.2	0.1
SINGLE 1131	: 60193 BLUE LK7 - 61477 BLL TR6Y CKT: 6	522.6	522.0	560.0	560.0	93.3	93.2	0.1
SINGLE 2500	: 66529 WATERTN3 - 67160 GROTON 3 CKT: 1	522.7	522.1	560.0	560.0	93.3	93.2	0.1
SINGLE 3504	: 66441 GARRISN4 - 66457 GARISN1G CKT: 1	522.6	522.0	560.0	560.0	93.3	93.2	0.1
SINGLE 3505	: 66441 GARRISN4 - 66458 GARISN2G CKT: 1	522.6	522.0	560.0	560.0	93.3	93.2	0.1
SINGLE 3506	: 66441 GARRISN4 - 66459 GARISN3G CKT: 1	522.6	522.0	560.0	560.0	93.3	93.2	0.1

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SINGLE 3507 : 66442 GARRISN7 - 66460 GARISN4G CKT: 1   522.7   522.1   560.0   560.0    93.3    93.2     0.1
SINGLE 3508 : 66442 GARRISN7 - 66461 GARISN5G CKT: 1   522.7   522.1   560.0   560.0    93.3    93.2     0.1
SINGLE 2938 : 60200 BLK DG27 - 60013 BLK D73G CKT: 1   522.3   521.7   560.0   560.0    93.3    93.2     0.1
SINGLE 2602 : 67105 LELANDO3 - 67160 GROTON 3 CKT: 1   522.2   521.6   560.0   560.0    93.2    93.1     0.1
SINGLE 1009 : 60131 SPLTRTB3 - 66564 SIOUXCY3 CKT: 1   521.8   521.2   560.0   560.0    93.2    93.1     0.1
SINGLE 1292 : 60287 NOBLES 7 - 60369 FENTON 7 CKT: C   521.9   521.5   560.0   560.0    93.2    93.1     0.1
SINGLE 3003 : 60331 LKFLDXL3 -  6015 G263     CKT: 1   521.8   521.2   560.0   560.0    93.2    93.1     0.1
SINGLE 941  : 60015 ANSON CG - 61475 ANS TR2Y CKT: 2   521.3   520.8   560.0   560.0    93.1    93.0     0.1
SINGLE 2700 :  6001 YANKEE 7 -  6003 G176     CKT: 1   521.5   520.9   560.0   560.0    93.1    93.0     0.1
SINGLE 2948 : 60214 HIBRDGE7 - 60010 HIBRD76G CKT: 1   521.4   520.8   560.0   560.0    93.1    93.0     0.1
SINGLE 940  : 60015 ANSON CG - 60129 SPLT RK7 CKT: 1   521.3   520.8   560.0   560.0    93.1    93.0     0.1
SINGLE 2461 : 66507 FTTHOMP4 - 66540 BIGBND14 CKT: 1   521.0   520.5   560.0   560.0    93.0    92.9     0.1
SINGLE 2902 : 60110 WILMART7 -  8006 G261-CT1 CKT: 1   521.1   520.5   560.0   560.0    93.0    92.9     0.1
SINGLE 2903 : 60110 WILMART7 -  8007 G261-CT2 CKT: 1   521.1   520.5   560.0   560.0    93.0    92.9     0.1
SINGLE 3400 : 63049 STANTON4 - 63002 STANT41G CKT: 1   520.9   520.3   560.0   560.0    93.0    92.9     0.1
SINGLE 3004 : 60331 LKFLDXL3 - 63091 LGS  12Y CKT: 1   520.3   519.7   560.0   560.0    92.9    92.8     0.1
SINGLE 3005 : 60331 LKFLDXL3 - 63092 LGS  34Y CKT: 1   520.3   519.7   560.0   560.0    92.9    92.8     0.1
SINGLE 3006 : 60331 LKFLDXL3 - 63093 LGS  56Y CKT: 1   520.3   519.7   560.0   560.0    92.9    92.8     0.1
SINGLE 1002 : 60126 SPLT RK3 - 60131 SPLTRTB3 CKT: 1   520.4   520.1   560.0   560.0    92.9    92.9     0.0
SINGLE 2705 : 34007 LAKEFLD5 -  6006 G262     CKT: 1   519.9   519.4   560.0   560.0    92.8    92.7     0.1
SINGLE 2703 : 34006 LAKEFLD3 -  3400 G164     CKT: 1   519.4   518.9   560.0   560.0    92.8    92.7     0.1
SINGLE 2699 :  6001 YANKEE 7 -  6002 YANKGEN  CKT: 1   519.0   518.5   560.0   560.0    92.7    92.6     0.1
SINGLE 3020 : 60369 FENTON 7 -  6036 G162     CKT: 1   518.6   518.2   560.0   560.0    92.6    92.5     0.1
SINGLE 2973 : 60287 NOBLES 7 -  6430 G287     CKT: 1   518.5   518.0   560.0   560.0    92.6    92.5     0.1
SINGLE 1008 : 60130 SPLTRTA3 - 66537 WHITE  3 CKT: 1   516.8   516.5   560.0   560.0    92.3    92.2     0.1
SINGLE 1001 : 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1   516.9   516.6   560.0   560.0    92.3    92.2     0.1
SINGLE 2924 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1   513.1   512.8   560.0   560.0    91.6    91.6     0.0
SINGLE 53   : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1   .....   528.3   .....   560.0   .....    94.3  *ELIM*
SINGLE 2956 : 60240 RIVRSID7 - 60008 RIVRS78G CKT: 1   .....   520.0   .....   560.0   .....    92.9  *ELIM*
SINGLE 3360 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1   .....   534.0   .....   560.0   .....    95.4  *ELIM*
*** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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 74) 63877 NEAL N 5 - 63882 NEAL  2G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 3552 : 66564 SIOUXCY3 - 63875 RAUN   3 CKT: 1   331.0   329.3   345.0   345.0    96.0    95.5     0.5
SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1   328.3   326.4   345.0   345.0    95.1    94.6     0.5
SINGLE 3521 : 66506 FTTHOMP3 - 66571 GR ISLD3 CKT: 1   326.2   326.1   345.0   345.0    94.6    94.5     0.1
SINGLE 2520 : 66565 SIOUXCY4 - 66567 DENISON4 CKT: 1   326.3   324.7   345.0   345.0    94.6    94.1     0.5
SINGLE 2704 : 34006 LAKEFLD3 - 63875 RAUN   3 CKT: 1   326.1   324.4   345.0   345.0    94.5    94.0     0.5
SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   326.1   324.7   345.0   345.0    94.5    94.1     0.4
SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   326.1   325.1   345.0   345.0    94.5    94.2     0.3
SINGLE 133  : 34059 BOONE  7 - 34076 BNE JCT7 CKT: 1   325.3   323.8   345.0   345.0    94.3    93.9     0.4
SINGLE 1009 : 60131 SPLTRTB3 - 66564 SIOUXCY3 CKT: 1   324.9   323.3   345.0   345.0    94.2    93.7     0.5
SINGLE 2894 : 60102 ADAMS  3 - 63032 PL VLLY3 CKT: 1   324.9   323.2   345.0   345.0    94.2    93.7     0.5
SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   324.4   322.7   345.0   345.0    94.0    93.5     0.5
SINGLE 2529 : 66580 SPENCR 8 - 66581 SPENCER8 CKT: 1   324.3   322.5   345.0   345.0    94.0    93.5     0.5
SINGLE 2470 : 66509 FTRANDL4 - 66565 SIOUXCY4 CKT: 1   323.9   317.6   345.0   345.0    93.9    92.1     1.8
SINGLE 1002 : 60126 SPLT RK3 - 60131 SPLTRTB3 CKT: 1   324.1   322.4   345.0   345.0    93.9    93.4     0.5
SINGLE 2754 : 34061 BNE JCT5 - 64205 FT.DODG5 CKT: 1   324.1   322.6   345.0   345.0    93.9    93.5     0.4
SINGLE 3559 : 66581 SPENCER8 - 63710 WISDOM 8 CKT: 1   324.0   322.3   345.0   345.0    93.9    93.4     0.5
SINGLE 3553 : 66565 SIOUXCY4 - 64994 TWIN CH4 CKT: 1   323.5   322.1   345.0   345.0    93.8    93.4     0.4
SINGLE 9    :  6450 PRIMGHAR - 66566 SIOUXCY5 CKT: 1   323.7   .....   345.0   .....    93.8   .....   *NEW*
SINGLE 2775 : 34093 ARNOLD 3 - 64352 TIFFIN 3 CKT: 1   323.1   321.5   345.0   345.0    93.6    93.2     0.4
SINGLE 2496 : 66526 UTICAJC4 - 66536 RASMUSN4 CKT: 1   322.8   321.5   345.0   345.0    93.6    93.2     0.4
SINGLE 110  : 34048 ANITA  5 - 34050 GU CTR 5 CKT: 1   322.8   321.5   345.0   345.0    93.6    93.2     0.4
SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1   322.9   321.5   345.0   345.0    93.6    93.2     0.4
SINGLE 32   : 34009 WINBAGO5 - 61932 RUTLAND5 CKT: 1   323.0   321.6   345.0   345.0    93.6    93.2     0.4
SINGLE 8    :  6450 PRIMGHAR - 66563 SPENCER5 CKT: 1   323.1   .....   345.0   .....    93.6   .....   *NEW*
SINGLE 2505 : 66536 RASMUSN4 - 66565 SIOUXCY4 CKT: 1   322.7   321.4   345.0   345.0    93.5    93.1     0.4
SINGLE 3550 : 66563 SPENCER5 - 63713 OSGOOD 5 CKT: 1   322.4   .....   345.0   .....    93.5   .....   *NEW*
SINGLE 28   : 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1   322.4   321.1   345.0   345.0    93.5    93.1     0.4
SINGLE 2719 : 34016 EMERY  5 - 64252 FLOYD  5 CKT: 1   322.6   321.1   345.0   345.0    93.5    93.1     0.4
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SINGLE 2916	:	60150 MNVLTAP4	-	63054 PANTHER4	CKT: 1	322.7	321.4	345.0	345.0	93.5	93.2	0.3
SINGLE 2200	:	65009 WAYSIDE4	-	66484 NUNDRWD4	CKT: 1	322.1	.....	345.0	.....	93.4	.....	*NEW*
SINGLE 2301	:	66306 SIOUXC2T	-	66564 SIOUXCY3	CKT: 1	322.1	320.8	345.0	345.0	93.4	93.0	0.4
SINGLE 3393	:	62980 MCLEOD 4	-	63054 PANTHER4	CKT: 1	322.3	321.1	345.0	345.0	93.4	93.1	0.3
SINGLE 33	:	34010 HAYWARD5	-	34013 WNBAGOS5	CKT: 1	322.3	321.0	345.0	345.0	93.4	93.0	0.4
SINGLE 107	:	34047 ANTA TP5	-	34048 ANITA 5	CKT: 1	322.4	321.1	345.0	345.0	93.4	93.1	0.3
SINGLE 2753	:	34061 BNE JCT5	-	64067 BONDRNT5	CKT: 1	322.2	320.8	345.0	345.0	93.4	93.0	0.4
SINGLE 992	:	60122 LAWRENC7	-	60834 LAWRENC8	CKT: 1	322.2	320.9	345.0	345.0	93.4	93.0	0.4
SINGLE 2518	:	66563 SPENCER5	-	66580 SPENCR 8	CKT: 1	322.1	.....	345.0	.....	93.4	.....	*NEW*
SINGLE 3563	:	66593 J4IDAGR8	-	63893 LT SX 8	CKT: 1	322.1	.....	345.0	.....	93.4	.....	*NEW*
SINGLE 2299	:	66303 SIOUXC1T	-	66564 SIOUXCY3	CKT: 1	322.0	.....	345.0	.....	93.3	.....	*NEW*
SINGLE 2515	:	66562 EAGLE 4	-	66578 PAHOJA 4	CKT: 1	322.1	.....	345.0	.....	93.3	.....	*NEW*
SINGLE 2521	:	66566 SIOUXCY5	-	66574 SIOUXCY8	CKT: 1	322.0	.....	345.0	.....	93.3	.....	*NEW*
BASE CASE	:	** BASE CASE **				321.0	319.8	345.0	345.0	93.0	92.7	0.3
SINGLE 1130	:	60193 BLUE LK7	-	61476 BLL TR5Y	CKT: 5	320.0	.....	345.0	.....	92.8	.....	*NEW*
SINGLE 2304	:	66307 SIOUXC3T	-	66566 SIOUXCY5	CKT: 1	319.9	318.7	345.0	345.0	92.7	92.4	0.3
SINGLE 2305	:	66309 SIOUXC4T	-	66565 SIOUXCY4	CKT: 1	319.9	318.7	345.0	345.0	92.7	92.4	0.3
SINGLE 2306	:	66309 SIOUXC4T	-	66566 SIOUXCY5	CKT: 1	319.9	318.7	345.0	345.0	92.7	92.4	0.3
SINGLE 2451	:	66506 FTTHOMP3	-	67105 LELANDO3	CKT: 1	320.0	318.7	345.0	345.0	92.7	92.4	0.3
SINGLE 2462	:	66507 FTTHOMP4	-	66541 BIGBND24	CKT: 1	319.8	318.6	345.0	345.0	92.7	92.3	0.4
SINGLE 2938	:	60200 BLK DG27	-	60013 BLK D73G	CKT: 1	319.8	318.6	345.0	345.0	92.7	92.3	0.4
SINGLE 3003	:	60331 LKFLDXL3	-	6015 G263	CKT: 1	319.7	318.5	345.0	345.0	92.7	92.3	0.4
SINGLE 3331	:	61475 ANS TR2Y	-	60021 ANS 72G	CKT: 2	319.7	318.6	345.0	345.0	92.7	92.3	0.4
SINGLE 3332	:	61475 ANS TR2Y	-	60022 ANS 73G	CKT: 2	319.7	318.6	345.0	345.0	92.7	92.3	0.4
SINGLE 1131	:	60193 BLUE LK7	-	61477 BLL TR6Y	CKT: 6	320.0	.....	345.0	.....	92.7	.....	*NEW*
SINGLE 3504	:	66441 GARRISN4	-	66457 GARISN1G	CKT: 1	319.8	318.6	345.0	345.0	92.7	92.4	0.3
SINGLE 3505	:	66441 GARRISN4	-	66458 GARISN2G	CKT: 1	319.8	318.6	345.0	345.0	92.7	92.4	0.3
SINGLE 3506	:	66441 GARRISN4	-	66459 GARISN3G	CKT: 1	319.8	318.6	345.0	345.0	92.7	92.4	0.3
SINGLE 3507	:	66442 GARRISN7	-	66460 GARISN4G	CKT: 1	319.8	318.6	345.0	345.0	92.7	92.4	0.3
SINGLE 3508	:	66442 GARRISN7	-	66461 GARISN5G	CKT: 1	319.8	318.6	345.0	345.0	92.7	92.4	0.3
SINGLE 2595	:	67101 ANTELOP3	-	67120 HURON 3	CKT: 1	320.0	.....	345.0	.....	92.7	.....	*NEW*
SINGLE 3546	:	66541 BIGBND24	-	66545 BGBND78G	CKT: 1	319.8	318.6	345.0	345.0	92.7	92.3	0.4
SINGLE 2613	:	67120 HURON 3	-	67204 BRDLNDTY	CKT: 1	320.0	.....	345.0	.....	92.7	.....	*NEW*
SINGLE 2635	:	67204 BRDLNDTY	-	67205 BRDLAND4	CKT: 1	320.0	.....	345.0	.....	92.7	.....	*NEW*
SINGLE 2482	:	66514 HURON 4	-	67205 BRDLAND4	CKT: 1	320.0	.....	345.0	.....	92.7	.....	*NEW*
SINGLE 2706	:	34008 FOX LK 5	-	34011 FOXLK53G	CKT: 1	320.0	.....	345.0	.....	92.7	.....	*NEW*
SINGLE 2303	:	66307 SIOUXC3T	-	66565 SIOUXCY4	CKT: 1	319.9	318.7	345.0	345.0	92.7	92.4	0.3
SINGLE 1003	:	60126 SPLT RK3	-	60286 NOBLES 3	CKT: C	319.3	318.0	345.0	345.0	92.6	92.2	0.4
SINGLE 3527	:	66510 FTRANDL7	-	66546 FTRDL12G	CKT: 1	319.4	318.2	345.0	345.0	92.6	92.2	0.4
SINGLE 2700	:	6001 YANKEE 7	-	6003 G176	CKT: 1	319.3	318.1	345.0	345.0	92.6	92.2	0.4
SINGLE 2702	:	6450 PRIMGHAR	-	6460 GI0304F1	CKT: 1	319.6	.....	345.0	.....	92.6	.....	*NEW*
SINGLE 3543	:	66540 BIGBND14	-	66542 BGBND12G	CKT: 1	319.2	318.0	345.0	345.0	92.5	92.2	0.3
SINGLE 2903	:	60110 WILMART7	-	8007 G261-CT2	CKT: 1	319.1	317.9	345.0	345.0	92.5	92.2	0.3
SINGLE 941	:	60015 ANSON CG	-	61475 ANS TR2Y	CKT: 2	319.1	318.0	345.0	345.0	92.5	92.2	0.3
SINGLE 940	:	60015 ANSON CG	-	60129 SPLT RK7	CKT: 1	319.1	318.0	345.0	345.0	92.5	92.2	0.3
SINGLE 2948	:	60214 HIBRDGE7	-	60010 HIBRD76G	CKT: 1	319.2	318.1	345.0	345.0	92.5	92.2	0.3
SINGLE 3525	:	66509 FTRANDL4	-	66549 FTRDL78G	CKT: 1	319.3	318.1	345.0	345.0	92.5	92.2	0.3
SINGLE 2902	:	60110 WILMART7	-	8006 G261-CT1	CKT: 1	319.1	317.9	345.0	345.0	92.5	92.2	0.3
SINGLE 3005	:	60331 LKFLDXL3	-	63092 LGS 34Y	CKT: 1	318.7	317.6	345.0	345.0	92.4	92.1	0.3
SINGLE 3485	:	66303 SIOUXC1T	-	66304 SIOUXC19	CKT: 1	318.7	317.5	345.0	345.0	92.4	92.0	0.4
SINGLE 3486	:	66306 SIOUXC2T	-	66305 SIOUXC29	CKT: 1	318.7	317.5	345.0	345.0	92.4	92.0	0.4
SINGLE 3006	:	60331 LKFLDXL3	-	63093 LGS 56Y	CKT: 1	318.7	317.6	345.0	345.0	92.4	92.1	0.3
SINGLE 3554	:	66566 SIOUXCY5	-	63889 PLYMOTH5	CKT: 1	318.9	317.9	345.0	345.0	92.4	92.2	0.2
SINGLE 2805	:	34137 TRIBOJI5	-	63897 G298SYS	CKT: 1	318.6	317.7	345.0	345.0	92.4	92.1	0.3
SINGLE 3004	:	60331 LKFLDXL3	-	63091 LGS 12Y	CKT: 1	318.7	317.6	345.0	345.0	92.4	92.1	0.3
SINGLE 2461	:	66507 FTTHOMP4	-	66540 BIGBND14	CKT: 1	318.3	317.1	345.0	345.0	92.3	91.9	0.4
SINGLE 3533	:	66519 OAHE 4	-	66556 OAHE2-3G	CKT: 1	318.6	317.4	345.0	345.0	92.3	92.0	0.3
SINGLE 24	:	34007 LAKEFLD5	-	34137 TRIBOJI5	CKT: 1	318.6	317.6	345.0	345.0	92.3	92.1	0.2
SINGLE 3400	:	63049 STANTON4	-	63002 STANT41G	CKT: 1	318.6	317.4	345.0	345.0	92.3	92.0	0.3
SINGLE 2703	:	34006 LAKEFLD3	-	3400 G164	CKT: 1	318.3	317.3	345.0	345.0	92.3	92.0	0.3
SINGLE 1001	:	60126 SPLT RK3	-	60130 SPLTRTA3	CKT: 1	318.3	317.3	345.0	345.0	92.2	92.0	0.2
SINGLE 1008	:	60130 SPLTRTA3	-	66537 WHITE 3	CKT: 1	318.2	317.2	345.0	345.0	92.2	91.9	0.3
SINGLE 2705	:	34007 LAKEFLD5	-	6006 G262	CKT: 1	318.1	317.0	345.0	345.0	92.2	91.9	0.3

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SINGLE 3573 : 66751 CENTER 4 - 66749 CENTER1G CKT: 1   318.0   316.9   345.0   345.0    92.2    91.8     0.4
SINGLE 3020 : 60369 FENTON 7 -  6036 G162     CKT: 1   317.6   316.6   345.0   345.0    92.1    91.8     0.3
SINGLE 2699 :  6001 YANKEE 7 -  6002 YANKGEN  CKT: 1   317.7   316.6   345.0   345.0    92.1    91.8     0.3
SINGLE 3540 : 66537 WHITE  3 -  6653 GI0108   CKT: 1   317.7   316.6   345.0   345.0    92.1    91.8     0.3
SINGLE 2973 : 60287 NOBLES 7 -  6430 G287     CKT: 1   317.6   316.5   345.0   345.0    92.0    91.7     0.3
SINGLE 120  : 34054 GR JCT 5 - 34058 PERRY  5 CKT: 1   316.3   315.3   345.0   345.0    91.7    91.4     0.3
SINGLE 247  : 34137 TRIBOJI5 - 66563 SPENCER5 CKT: 1   316.1   315.8   345.0   345.0    91.6    91.5     0.1
SINGLE 2924 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1   313.0   312.3   345.0   345.0    90.7    90.5     0.2
SINGLE 2744 : 34054 GR JCT 5 - 63771 DRAGER 5 CKT: 1   312.9   312.0   345.0   345.0    90.7    90.4     0.3
SINGLE 53   : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1   .....   322.8   .....   345.0   .....    93.6  *ELIM*
SINGLE 2516 : 66563 SPENCER5 - 66566 SIOUXCY5 CKT: 1   .....   322.4   .....   345.0   .....    93.4  *ELIM*
SINGLE 2956 : 60240 RIVRSID7 - 60008 RIVRS78G CKT: 1   .....   317.5   .....   345.0   .....    92.0  *ELIM*
SINGLE 3360 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1   .....   324.5   .....   345.0   .....    94.1  *ELIM*
SINGLE 3591 : 67106 LELANDO4 - 67110 LELAN41G CKT: 1   .....   317.1   .....   345.0   .....    91.9  *ELIM*
SINGLE 3595 : 67133 SIDNEY 3 - 64878 KEYSTON3 CKT: 1   .....   320.8   .....   345.0   .....    93.0  *ELIM*
X0897-0898O1: ** MULTIPLE CONTINGENCY **               .....   321.0   .....   345.0   .....    93.0  *ELIM*
            : 60215 HYLNDLK7 - 60193 BLUE LK7 CKT: 1
            : 60215 HYLNDLK7 - 60261 DEANLAK7 CKT: 1
            : 60261 DEANLAK7 - 60244 SCOTTCO7 CKT: 1
MOL-RIV/CNC7: ** MULTIPLE CONTINGENCY **               .....   320.8   .....   345.0   .....    93.0  *ELIM*
            : 60229 MOORELK7 - 60203 COON CK7 CKT: 1
            : 60229 MOORELK7 - 60240 RIVRSID7 CKT: 1
795         : ** MULTIPLE CONTINGENCY **               .....   321.5   .....   345.0   .....    93.2  *ELIM*
            : 66550 GRANITF4 - 60150 MNVLTAP4 CKT: 1
            : 60148 MINVALY7 - 60149 MINVALT4 CKT: C
            : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1
            : 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1
            : 63054 PANTHER4 - 60742 PANTHER8 CKT: 1
885         : ** MULTIPLE CONTINGENCY **               .....   321.0   .....   345.0   .....    93.1  *ELIM*
            : 69507 SENECA 5 - 69511 BELLCTR5 CKT: 1
            : 69507 SENECA 5 - 69523 GENOA  5 CKT: 1
SINGLE 2715 : 34016 EMERY  5 - 34912 EMERYST1 CKT: 1   .....   318.4   .....   345.0   .....    92.3  *ELIM*
SINGLE 2818 : 34189 OTTUMWA5 - 34146 OTTUMW1G CKT: 1   .....   321.7   .....   345.0   .....    93.2  *ELIM*
SINGLE 2895 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1   .....   315.2   .....   345.0   .....    91.4  *ELIM*
SINGLE 2896 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1   .....   315.2   .....   345.0   .....    91.4  *ELIM*
SINGLE 2899 : 60108 WILMART3 -  8001 G261-ST  CKT: 1   .....   316.4   .....   345.0   .....    91.7  *ELIM*
SINGLE 2915 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1   .....   314.5   .....   345.0   .....    91.2  *ELIM*
SINGLE 2920 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1   .....   314.5   .....   345.0   .....    91.2  *ELIM*
*** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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75) 64062 DMOINES5 - 64631 DMSMID18 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 2820 : 34189 OTTUMWA5 - 34146 OTTUMW1G CKT: 1    89.7    89.4    80.0    80.0   112.1   111.7     0.4
SINGLE 2821 : 34191 REASNOR5 - 64062 DMOINES5 CKT: 1    87.9    87.5    80.0    80.0   109.9   109.4     0.5
SINGLE 354  : 34211 NEWTON 5 - 34561 NEWTON Y CKT: 1    86.1    85.8    80.0    80.0   107.6   107.2     0.4
SINGLE 355  : 34212 NEWTON 8 - 34561 NEWTON Y CKT: 1    86.1    85.8    80.0    80.0   107.6   107.2     0.4
SINGLE 300  : 34185 POWESHK5 - 34191 REASNOR5 CKT: 1    85.8    85.4    80.0    80.0   107.2   106.7     0.5
SINGLE 2819 : 34188 OTTUMWA3 - 64095 MNTZUMA3 CKT: 1    84.4    84.1    80.0    80.0   105.5   105.1     0.4
SINGLE 311  : 34189 OTTUMWA5 - 34557 OTTUMWAY CKT: 1    84.4    84.1    80.0    80.0   105.4   105.1     0.3
SINGLE 308  : 34188 OTTUMWA3 - 34557 OTTUMWAY CKT: 1    84.4    84.1    80.0    80.0   105.4   105.1     0.3
SINGLE 2813 : 34179 JASPER 5 - 64189 NEANKNY5 CKT: 1    84.1    83.8    80.0    80.0   105.1   104.7     0.4
SINGLE 2809 : 34174 EICTAP 5 - 64096 BEACON 5 CKT: 1    84.0    83.8    80.0    80.0   105.0   104.7     0.3
SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1    83.9    83.6    80.0    80.0   104.9   104.5     0.4
050    1    : ** MULTIPLE CONTINGENCY **               83.9    83.6    80.0    80.0   104.9   104.5     0.4
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
            : 39901 COC DPC  - 38342 COC 69   CKT: 1
            : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
825         : ** MULTIPLE CONTINGENCY **               83.9    83.6    80.0    80.0   104.9   104.5     0.4
            : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
            : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
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            : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1
050    2    : ** MULTIPLE CONTINGENCY **                83.7    83.4    80.0    80.0   104.7   104.3     0.4
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
SINGLE 332  : 34204 JASPER 8 - 34549 JASPER Y CKT: 1    83.7    83.3    80.0    80.0   104.6   104.2     0.4
ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                83.7    83.4    80.0    80.0   104.6   104.2     0.4
            : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
SINGLE 333  : 34204 JASPER 8 - 34574 AURORA 8 CKT: 1    83.7    83.3    80.0    80.0   104.6   104.2     0.4
SINGLE 286  : 34179 JASPER 5 - 34549 JASPER Y CKT: 1    83.7    83.3    80.0    80.0   104.6   104.2     0.4
SINGLE 709  : 34606 GRNL CT8 - 34607 GRNCTTP8 CKT: 1    83.5    83.2    80.0    80.0   104.4   104.0     0.4
050    3    : ** MULTIPLE CONTINGENCY **                83.5    83.1    80.0    80.0   104.3   103.9     0.4
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 39901 COC DPC  - 38342 COC 69   CKT: 1
            : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    83.4    83.1    80.0    80.0   104.2   103.8     0.4
SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1    83.3    83.0    80.0    80.0   104.1   103.8     0.3
SINGLE 2824 : 34202 LUCAS  8 - 64100 KNXVL  8 CKT: 1    83.2    82.9    80.0    80.0   104.1   103.7     0.4
SINGLE 2828 : 34212 NEWTON 8 - 64156 COLFAX 8 CKT: 1    83.3    83.0    80.0    80.0   104.1   103.8     0.3
SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1    83.2    83.1    80.0    80.0   103.9   103.8     0.1
PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                83.1    82.9    80.0    80.0   103.9   103.6     0.3
            : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
            : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1    83.0    82.7    80.0    80.0   103.7   103.4     0.3
SINGLE 285  : 34179 JASPER 5 - 34211 NEWTON 5 CKT: 1    82.9    82.5    80.0    80.0   103.6   103.2     0.4
SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1    82.9    82.6    80.0    80.0   103.6   103.3     0.3
SINGLE 314  : 34192 LUCAS  5 - 34559 LUCAS  Y CKT: 1    82.9    82.6    80.0    80.0   103.6   103.2     0.4
SINGLE 327  : 34202 LUCAS  8 - 34559 LUCAS  Y CKT: 1    82.9    82.6    80.0    80.0   103.6   103.2     0.4
SINGLE 685  : 34585 LORIMRR8 - 34586 LORIMOR8 CKT: 1    82.9    82.5    80.0    80.0   103.6   103.2     0.4
SINGLE 686  : 34585 LORIMRR8 - 34588 SLAKEN 8 CKT: 1    82.9    82.5    80.0    80.0   103.6   103.2     0.4
SINGLE 687  : 34586 LORIMOR8 - 34587 MURRAY 8 CKT: 1    82.9    82.5    80.0    80.0   103.6   103.2     0.4
SINGLE 310  : 34189 OTTUMWA5 - 34192 LUCAS  5 CKT: 1    82.9    82.6    80.0    80.0   103.6   103.2     0.4
SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    82.9    82.6    80.0    80.0   103.6   103.2     0.4
SINGLE 55   : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1    82.9    82.6    80.0    80.0   103.6   103.2     0.4
BASE CASE   : **       BASE CASE      **                81.8    81.5    80.0    80.0   102.3   101.8     0.5
SINGLE 283  : 34178 HENRYCO5 - 34183 JEFF   5 CKT: 1    80.8    80.4    80.0    80.0   100.9   100.6     0.3
SINGLE 3622 : 67316 COYOTE 3 - 67315 COYOTE1G CKT: 1    80.7    80.4    80.0    80.0   100.9   100.5     0.4
SINGLE 3589 : 67101 ANTELOP3 - 67103 ANTEL31G CKT: 1    80.7    80.3    80.0    80.0   100.8   100.4     0.4
SINGLE 3590 : 67101 ANTELOP3 - 67107 ANTEL32G CKT: 1    80.7    80.3    80.0    80.0   100.8   100.4     0.4
SINGLE 3592 : 67105 LELANDO3 - 67111 LELAN32G CKT: 1    80.6    80.3    80.0    80.0   100.8   100.3     0.5
SINGLE 2922 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1    80.6    80.3    80.0    80.0   100.8   100.4     0.4
SINGLE 2923 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1    80.7    80.3    80.0    80.0   100.8   100.4     0.4
SINGLE 2917 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1    80.6    80.3    80.0    80.0   100.8   100.4     0.4
SINGLE 3449 : 63314 BIGSTON4 - 63315 BIGSTN1G CKT: 1    80.5    80.2    80.0    80.0   100.6   100.2     0.4
SINGLE 3399 : 63041 COAL CR4 - 63001 COAL 42G CKT: 1    80.3    80.0    80.0    80.0   100.4   100.0     0.4
SINGLE 3398 : 63041 COAL CR4 - 63000 COAL 41G CKT: 1    80.3    80.0    80.0    80.0   100.4   100.0     0.4
SINGLE 292  : 34182 WAPELLO5 - 34183 JEFF   5 CKT: 1    80.3    80.0    80.0    80.0   100.3   100.0     0.3
SINGLE 2924 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    80.1    79.7    80.0    80.0   100.1    99.7     0.4
SINGLE 3596 : 67131 LARAMIE3 - 67118 LARAM31G CKT: 1    79.8    79.5    80.0    80.0    99.8    99.4     0.4
SINGLE 2769 : 34084 PARNEL 5 - 64351 HILLS  5 CKT: 1    79.8    79.5    80.0    80.0    99.7    99.4     0.3
SINGLE 173  : 34084 PARNEL 5 - 34185 POWESHK5 CKT: 1    79.2    78.9    80.0    80.0    99.0    98.6     0.4

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 76) 64062 DMOINES5 - 64632 DMSMID28 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 2820 : 34189 OTTUMWA5 - 34146 OTTUMW1G CKT: 1    97.9    97.6    90.0    90.0   108.8   108.4     0.4
SINGLE 2821 : 34191 REASNOR5 - 64062 DMOINES5 CKT: 1    96.0    95.5    90.0    90.0   106.6   106.1     0.5
SINGLE 354  : 34211 NEWTON 5 - 34561 NEWTON Y CKT: 1    94.0    93.6    90.0    90.0   104.4   104.0     0.4
SINGLE 355  : 34212 NEWTON 8 - 34561 NEWTON Y CKT: 1    94.0    93.6    90.0    90.0   104.4   104.0     0.4
SINGLE 300  : 34185 POWESHK5 - 34191 REASNOR5 CKT: 1    93.6    93.2    90.0    90.0   104.1   103.6     0.5
SINGLE 2819 : 34188 OTTUMWA3 - 64095 MNTZUMA3 CKT: 1    92.1    91.8    90.0    90.0   102.3   102.0     0.3
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SINGLE 308  : 34188 OTTUMWA3 - 34557 OTTUMWAY CKT: 1    92.1    91.7    90.0    90.0   102.3   101.9     0.4
SINGLE 311  : 34189 OTTUMWA5 - 34557 OTTUMWAY CKT: 1    92.1    91.7    90.0    90.0   102.3   101.9     0.4
SINGLE 2813 : 34179 JASPER 5 - 64189 NEANKNY5 CKT: 1    91.8    91.4    90.0    90.0   102.0   101.6     0.4
SINGLE 2809 : 34174 EICTAP 5 - 64096 BEACON 5 CKT: 1    91.7    91.4    90.0    90.0   101.9   101.6     0.3
050    1    : ** MULTIPLE CONTINGENCY **                91.6    91.3    90.0    90.0   101.8   101.4     0.4
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
            : 39901 COC DPC  - 38342 COC 69   CKT: 1
            : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1    91.6    91.2    90.0    90.0   101.7   101.4     0.3
825         : ** MULTIPLE CONTINGENCY **                91.6    91.2    90.0    90.0   101.7   101.4     0.3
            : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
            : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
            : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1
SINGLE 286  : 34179 JASPER 5 - 34549 JASPER Y CKT: 1    91.3    91.0    90.0    90.0   101.5   101.1     0.4
SINGLE 332  : 34204 JASPER 8 - 34549 JASPER Y CKT: 1    91.3    91.0    90.0    90.0   101.5   101.1     0.4
ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                91.4    91.0    90.0    90.0   101.5   101.1     0.4
            : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
SINGLE 333  : 34204 JASPER 8 - 34574 AURORA 8 CKT: 1    91.3    91.0    90.0    90.0   101.5   101.1     0.4
050    2    : ** MULTIPLE CONTINGENCY **                91.4    91.0    90.0    90.0   101.5   101.2     0.3
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
SINGLE 709  : 34606 GRNL CT8 - 34607 GRNCTTP8 CKT: 1    91.2    90.8    90.0    90.0   101.3   100.9     0.4
050    3    : ** MULTIPLE CONTINGENCY **                91.1    90.7    90.0    90.0   101.2   100.8     0.4
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 39901 COC DPC  - 38342 COC 69   CKT: 1
            : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    91.0    90.7    90.0    90.0   101.1   100.7     0.4
SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1    90.9    90.6    90.0    90.0   101.1   100.7     0.4
SINGLE 2828 : 34212 NEWTON 8 - 64156 COLFAX 8 CKT: 1    90.9    90.6    90.0    90.0   101.0   100.7     0.3
SINGLE 2824 : 34202 LUCAS  8 - 64100 KNXVL  8 CKT: 1    90.9    90.5    90.0    90.0   101.0   100.6     0.4
SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1    90.8    90.7    90.0    90.0   100.9   100.7     0.2
PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                90.7    90.4    90.0    90.0   100.8   100.5     0.3
            : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
            : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1    90.6    90.3    90.0    90.0   100.6   100.3     0.3
SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1    90.5    90.2    90.0    90.0   100.6   100.2     0.4
SINGLE 314  : 34192 LUCAS  5 - 34559 LUCAS  Y CKT: 1    90.5    90.1    90.0    90.0   100.5   100.1     0.4
SINGLE 327  : 34202 LUCAS  8 - 34559 LUCAS  Y CKT: 1    90.5    90.1    90.0    90.0   100.5   100.1     0.4
SINGLE 685  : 34585 LORIMRR8 - 34586 LORIMOR8 CKT: 1    90.4    90.1    90.0    90.0   100.5   100.1     0.4
SINGLE 686  : 34585 LORIMRR8 - 34588 SLAKEN 8 CKT: 1    90.4    90.1    90.0    90.0   100.5   100.1     0.4
SINGLE 687  : 34586 LORIMOR8 - 34587 MURRAY 8 CKT: 1    90.4    90.1    90.0    90.0   100.5   100.1     0.4
SINGLE 310  : 34189 OTTUMWA5 - 34192 LUCAS  5 CKT: 1    90.5    90.1    90.0    90.0   100.5   100.1     0.4
SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    90.5    90.1    90.0    90.0   100.5   100.2     0.3
SINGLE 55   : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1    90.5    90.2    90.0    90.0   100.5   100.2     0.3
SINGLE 285  : 34179 JASPER 5 - 34211 NEWTON 5 CKT: 1    90.5    90.1    90.0    90.0   100.5   100.1     0.4
SINGLE 725  : 34625 LACONA 8 - 34627 LUCAS T8 CKT: 1    90.4    90.0    90.0    90.0   100.4   100.0     0.4
SINGLE 726  : 34625 LACONA 8 - 34640 WODBURN8 CKT: 1    90.4    90.0    90.0    90.0   100.4   100.0     0.4
SINGLE 739  : 34640 WODBURN8 - 34659 OSCEREC8 CKT: 1    90.4    90.0    90.0    90.0   100.4   100.0     0.4
SINGLE 755  : 34658 OSCEOLA8 - 34659 OSCEREC8 CKT: 1    90.4    90.0    90.0    90.0   100.4   100.0     0.4
SINGLE 689  : 34587 MURRAY 8 - 34658 OSCEOLA8 CKT: 1    90.4    90.0    90.0    90.0   100.4   100.0     0.4
SINGLE 328  : 34202 LUCAS  8 - 34627 LUCAS T8 CKT: 1    90.4    90.0    90.0    90.0   100.4   100.0     0.4
BASE CASE   : **       BASE CASE      **                89.3    88.9    90.0    90.0    99.2    98.8     0.4
SINGLE 2898 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1    88.2    87.9    90.0    90.0    98.0    97.6     0.4
SINGLE 2897 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1    88.2    87.9    90.0    90.0    98.0    97.6     0.4
SINGLE 283  : 34178 HENRYCO5 - 34183 JEFF   5 CKT: 1    88.2    87.8    90.0    90.0    97.9    97.6     0.3
SINGLE 3622 : 67316 COYOTE 3 - 67315 COYOTE1G CKT: 1    88.1    87.7    90.0    90.0    97.9    97.5     0.4
SINGLE 3589 : 67101 ANTELOP3 - 67103 ANTEL31G CKT: 1    88.0    87.7    90.0    90.0    97.8    97.4     0.4
SINGLE 3590 : 67101 ANTELOP3 - 67107 ANTEL32G CKT: 1    88.0    87.7    90.0    90.0    97.8    97.4     0.4
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SINGLE 3592 : 67105 LELANDO3 - 67111 LELAN32G CKT: 1    88.0    87.6    90.0    90.0    97.8    97.4     0.4
SINGLE 2922 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1    88.0    87.7    90.0    90.0    97.8    97.4     0.4
SINGLE 2923 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1    88.0    87.7    90.0    90.0    97.8    97.4     0.4
SINGLE 2917 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1    88.0    87.7    90.0    90.0    97.8    97.4     0.4
SINGLE 3449 : 63314 BIGSTON4 - 63315 BIGSTN1G CKT: 1    87.9    87.5    90.0    90.0    97.6    97.3     0.3
SINGLE 3398 : 63041 COAL CR4 - 63000 COAL 41G CKT: 1    87.7    87.3    90.0    90.0    97.4    97.0     0.4
SINGLE 3399 : 63041 COAL CR4 - 63001 COAL 42G CKT: 1    87.7    87.3    90.0    90.0    97.4    97.0     0.4
SINGLE 292  : 34182 WAPELLO5 - 34183 JEFF   5 CKT: 1    87.6    87.3    90.0    90.0    97.4    97.0     0.4
SINGLE 2924 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    87.4    87.0    90.0    90.0    97.1    96.7     0.4
SINGLE 3596 : 67131 LARAMIE3 - 67118 LARAM31G CKT: 1    87.1    86.8    90.0    90.0    96.8    96.4     0.4
SINGLE 2769 : 34084 PARNEL 5 - 64351 HILLS  5 CKT: 1    87.1    86.8    90.0    90.0    96.7    96.4     0.3
SINGLE 173  : 34084 PARNEL 5 - 34185 POWESHK5 CKT: 1    86.4    86.1    90.0    90.0    96.0    95.7     0.3
SINGLE 2892 : 60102 ADAMS  3 - 63032 PL VLLY3 CKT: 1   .....    90.0   .....    90.0   .....   100.0  *ELIM*

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 77) 64192 GDMEC    - 64193 GDMECGT1 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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BASE CASE   : **       BASE CASE      **               197.5   197.5   200.0   200.0    98.7    98.7     0.0
SINGLE 2704 : 34006 LAKEFLD3 - 63875 RAUN   3 CKT: 1   196.4   194.1   200.0   200.0    98.2    97.1     1.1
SINGLE 3533 : 66519 OAHE   4 - 66556 OAHE2-3G CKT: 1   196.4   194.2   200.0   200.0    98.2    97.1     1.1
SINGLE 2958 : 60240 RIVRSID7 - 60008 RIVRS78G CKT: 1   196.4   194.2   200.0   200.0    98.2    97.1     1.1
SINGLE 3593 : 67106 LELANDO4 - 67110 LELAN41G CKT: 1   196.1   193.9   200.0   200.0    98.1    97.0     1.1
SINGLE 3006 : 60331 LKFLDXL3 - 63093 LGS  56Y CKT: 1   195.9   193.7   200.0   200.0    98.0    96.9     1.1
SINGLE 2461 : 66507 FTTHOMP4 - 66540 BIGBND14 CKT: 1   195.9   193.7   200.0   200.0    98.0    96.9     1.1
SINGLE 3004 : 60331 LKFLDXL3 - 63091 LGS  12Y CKT: 1   195.9   193.7   200.0   200.0    98.0    96.9     1.1
SINGLE 3005 : 60331 LKFLDXL3 - 63092 LGS  34Y CKT: 1   195.9   193.7   200.0   200.0    98.0    96.9     1.1
SINGLE 3573 : 66751 CENTER 4 - 66749 CENTER1G CKT: 1   195.8   193.6   200.0   200.0    97.9    96.8     1.1
SINGLE 2699 :  6001 YANKEE 7 -  6002 YANKGEN  CKT: 1   195.7   193.5   200.0   200.0    97.9    96.8     1.1
SINGLE 2753 : 34061 BNE JCT5 - 64067 BONDRNT5 CKT: 1   195.8   193.5   200.0   200.0    97.9    96.8     1.1
SINGLE 3540 : 66537 WHITE  3 -  6653 GI0108   CKT: 1   195.5   193.3   200.0   200.0    97.8    96.7     1.1
SINGLE 3020 : 60369 FENTON 7 -  6036 G162     CKT: 1   195.6   193.4   200.0   200.0    97.8    96.7     1.1
SINGLE 1008 : 60130 SPLTRTA3 - 66537 WHITE  3 CKT: 1   195.4   193.2   200.0   200.0    97.7    96.6     1.1
SINGLE 2717 : 34016 EMERY  5 - 34912 EMERYST1 CKT: 1   195.5   193.4   200.0   200.0    97.7    96.7     1.0
SINGLE 1001 : 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1   195.4   193.2   200.0   200.0    97.7    96.6     1.1
SINGLE 2703 : 34006 LAKEFLD3 -  3400 G164     CKT: 1   195.3   193.1   200.0   200.0    97.6    96.6     1.0
SINGLE 1002 : 60126 SPLT RK3 - 60131 SPLTRTB3 CKT: 1   195.3   193.1   200.0   200.0    97.6    96.5     1.1
SINGLE 2705 : 34007 LAKEFLD5 -  6006 G262     CKT: 1   195.3   193.1   200.0   200.0    97.6    96.6     1.0
SINGLE 1009 : 60131 SPLTRTB3 - 66564 SIOUXCY3 CKT: 1   195.3   193.1   200.0   200.0    97.6    96.5     1.1
SINGLE 2973 : 60287 NOBLES 7 -  6430 G287     CKT: 1   195.2   193.1   200.0   200.0    97.6    96.5     1.1
SINGLE 941  : 60015 ANSON CG - 61475 ANS TR2Y CKT: 2   194.7   192.6   200.0   200.0    97.4    96.3     1.1
SINGLE 940  : 60015 ANSON CG - 60129 SPLT RK7 CKT: 1   194.7   192.6   200.0   200.0    97.4    96.3     1.1
SINGLE 2901 : 60108 WILMART3 -  8001 G261-ST  CKT: 1   194.1   192.0   200.0   200.0    97.1    96.0     1.1
SINGLE 2934 : 60186 AS KING3 - 60006 KING 31G CKT: 1   193.5   191.4   200.0   200.0    96.7    95.7     1.0
SINGLE 2898 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1   192.8   190.7   200.0   200.0    96.4    95.4     1.0
SINGLE 2897 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1   192.8   190.7   200.0   200.0    96.4    95.4     1.0
SINGLE 3622 : 67316 COYOTE 3 - 67315 COYOTE1G CKT: 1   192.8   190.8   200.0   200.0    96.4    95.4     1.0
SINGLE 3590 : 67101 ANTELOP3 - 67107 ANTEL32G CKT: 1   192.6   190.6   200.0   200.0    96.3    95.3     1.0
SINGLE 3589 : 67101 ANTELOP3 - 67103 ANTEL31G CKT: 1   192.6   190.6   200.0   200.0    96.3    95.3     1.0
SINGLE 3592 : 67105 LELANDO3 - 67111 LELAN32G CKT: 1   192.3   190.3   200.0   200.0    96.2    95.1     1.1
SINGLE 2923 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1   191.9   189.9   200.0   200.0    96.0    95.0     1.0
SINGLE 2922 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1   191.8   189.8   200.0   200.0    95.9    94.9     1.0
SINGLE 2917 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1   191.8   189.9   200.0   200.0    95.9    94.9     1.0
SINGLE 3449 : 63314 BIGSTON4 - 63315 BIGSTN1G CKT: 1   191.6   189.6   200.0   200.0    95.8    94.8     1.0
SINGLE 3399 : 63041 COAL CR4 - 63001 COAL 42G CKT: 1   190.5   188.6   200.0   200.0    95.3    94.3     1.0
SINGLE 3398 : 63041 COAL CR4 - 63000 COAL 41G CKT: 1   190.5   188.6   200.0   200.0    95.3    94.3     1.0
SINGLE 3596 : 67131 LARAMIE3 - 67118 LARAM31G CKT: 1   189.9   188.0   200.0   200.0    95.0    94.0     1.0
SINGLE 2924 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1   188.4   186.6   200.0   200.0    94.2    93.3     0.9
SINGLE 131  : 34059 BOONE  7 - 34076 BNE JCT7 CKT: 1   .....   196.1   .....   200.0   .....    98.0  *ELIM*
SINGLE 245  : 34137 TRIBOJI5 - 66563 SPENCER5 CKT: 1   .....   195.8   .....   200.0   .....    97.9  *ELIM*
SINGLE 1128 : 60193 BLUE LK7 - 61476 BLL TR5Y CKT: 5   .....   196.0   .....   200.0   .....    98.0  *ELIM*
SINGLE 1129 : 60193 BLUE LK7 - 61477 BLL TR6Y CKT: 6   .....   196.0   .....   200.0   .....    98.0  *ELIM*
SINGLE 1290 : 60287 NOBLES 7 - 60369 FENTON 7 CKT: C   .....   195.5   .....   200.0   .....    97.8  *ELIM*
SINGLE 2313 : 66402 MI CTYW4 - 66450 MT WEST4 CKT: 1   .....   196.4   .....   200.0   .....    98.2  *ELIM*
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SINGLE 2449 : 66506 FTTHOMP3 - 67105 LELANDO3 CKT: 1   .....   195.7   .....   200.0   .....    97.9  *ELIM*
SINGLE 2460 : 66507 FTTHOMP4 - 66541 BIGBND24 CKT: 1   .....   195.7   .....   200.0   .....    97.9  *ELIM*
SINGLE 2480 : 66514 HURON  4 - 67205 BRDLAND4 CKT: 1   .....   196.2   .....   200.0   .....    98.1  *ELIM*
SINGLE 2492 : 66523 SIOUXFL4 - 66578 PAHOJA 4 CKT: 1   .....   196.4   .....   200.0   .....    98.2  *ELIM*
SINGLE 2594 : 67101 ANTELOP3 - 67120 HURON  3 CKT: 1   .....   196.2   .....   200.0   .....    98.1  *ELIM*
SINGLE 2612 : 67120 HURON  3 - 67204 BRDLNDTY CKT: 1   .....   196.2   .....   200.0   .....    98.1  *ELIM*
SINGLE 2634 : 67204 BRDLNDTY - 67205 BRDLAND4 CKT: 1   .....   196.2   .....   200.0   .....    98.1  *ELIM*
SINGLE 2699 :  6001 YANKEE 7 -  6003 G176     CKT: 1   .....   195.5   .....   200.0   .....    97.8  *ELIM*
SINGLE 2704 : 34008 FOX LK 5 - 34011 FOXLK53G CKT: 1   .....   195.8   .....   200.0   .....    97.9  *ELIM*
SINGLE 2713 : 34016 EMERY  5 - 34910 EMERYGT1 CKT: 1   .....   194.8   .....   200.0   .....    97.4  *ELIM*
SINGLE 2714 : 34016 EMERY  5 - 34911 EMERYGT2 CKT: 1   .....   194.8   .....   200.0   .....    97.4  *ELIM*
SINGLE 2803 : 34137 TRIBOJI5 - 63897 G298SYS  CKT: 1   .....   194.9   .....   200.0   .....    97.5  *ELIM*
SINGLE 2900 : 60110 WILMART7 -  8006 G261-CT1 CKT: 1   .....   194.6   .....   200.0   .....    97.3  *ELIM*
SINGLE 2901 : 60110 WILMART7 -  8007 G261-CT2 CKT: 1   .....   194.6   .....   200.0   .....    97.3  *ELIM*
SINGLE 2936 : 60200 BLK DG27 - 60013 BLK D73G CKT: 1   .....   195.7   .....   200.0   .....    97.9  *ELIM*
SINGLE 2946 : 60214 HIBRDGE7 - 60010 HIBRD76G CKT: 1   .....   195.0   .....   200.0   .....    97.5  *ELIM*
SINGLE 3001 : 60331 LKFLDXL3 -  6015 G263     CKT: 1   .....   195.4   .....   200.0   .....    97.7  *ELIM*
SINGLE 3329 : 61475 ANS TR2Y - 60021 ANS  72G CKT: 2   .....   195.0   .....   200.0   .....    97.5  *ELIM*
SINGLE 3330 : 61475 ANS TR2Y - 60022 ANS  73G CKT: 2   .....   195.0   .....   200.0   .....    97.5  *ELIM*
SINGLE 3398 : 63049 STANTON4 - 63002 STANT41G CKT: 1   .....   194.4   .....   200.0   .....    97.2  *ELIM*
SINGLE 3502 : 66441 GARRISN4 - 66457 GARISN1G CKT: 1   .....   196.0   .....   200.0   .....    98.0  *ELIM*
SINGLE 3503 : 66441 GARRISN4 - 66458 GARISN2G CKT: 1   .....   196.0   .....   200.0   .....    98.0  *ELIM*
SINGLE 3504 : 66441 GARRISN4 - 66459 GARISN3G CKT: 1   .....   196.0   .....   200.0   .....    98.0  *ELIM*
SINGLE 3505 : 66442 GARRISN7 - 66460 GARISN4G CKT: 1   .....   196.0   .....   200.0   .....    98.0  *ELIM*
SINGLE 3506 : 66442 GARRISN7 - 66461 GARISN5G CKT: 1   .....   196.0   .....   200.0   .....    98.0  *ELIM*
SINGLE 3519 : 66506 FTTHOMP3 - 66571 GR ISLD3 CKT: 1   .....   196.1   .....   200.0   .....    98.0  *ELIM*
SINGLE 3523 : 66509 FTRANDL4 - 66549 FTRDL78G CKT: 1   .....   195.4   .....   200.0   .....    97.7  *ELIM*
SINGLE 3525 : 66510 FTRANDL7 - 66546 FTRDL12G CKT: 1   .....   195.4   .....   200.0   .....    97.7  *ELIM*
SINGLE 3541 : 66540 BIGBND14 - 66542 BGBND12G CKT: 1   .....   195.0   .....   200.0   .....    97.5  *ELIM*
SINGLE 3542 : 66540 BIGBND14 - 66543 BGBND34G CKT: 1   .....   196.2   .....   200.0   .....    98.1  *ELIM*
SINGLE 3544 : 66541 BIGBND24 - 66545 BGBND78G CKT: 1   .....   195.7   .....   200.0   .....    97.9  *ELIM*
SINGLE 3550 : 66564 SIOUXCY3 - 63875 RAUN   3 CKT: 1   .....   196.1   .....   200.0   .....    98.0  *ELIM*
SINGLE 2987 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1   .....   197.5   .....   200.0   .....    98.7  *ELIM*
PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **               .....   197.5   .....   200.0   .....    98.7  *ELIM*
            : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
            : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
050    2    : ** MULTIPLE CONTINGENCY **               .....   197.5   .....   200.0   .....    98.7  *ELIM*
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
050    3    : ** MULTIPLE CONTINGENCY **               .....   197.5   .....   200.0   .....    98.7  *ELIM*
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 39901 COC DPC  - 38342 COC 69   CKT: 1
            : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
825         : ** MULTIPLE CONTINGENCY **               .....   197.5   .....   200.0   .....    98.7  *ELIM*
            : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
            : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
            : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1
ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **               .....   197.5   .....   200.0   .....    98.7  *ELIM*
            : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
050    1    : ** MULTIPLE CONTINGENCY **               .....   197.5   .....   200.0   .....    98.7  *ELIM*
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
            : 39901 COC DPC  - 38342 COC 69   CKT: 1
            : 38333 HLT 69   - 68821 MAUSTON  CKT: 1

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 78) 64192 GDMEC    - 64194 GDMECGT2 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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 BASE CASE   : **       BASE CASE      **               197.5   197.5   200.0   200.0    98.7    98.7     0.0
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SINGLE 2704	: 34006 LAKEFLD3	- 63875 RAUN 3	CKT: 1	196.4	194.1	200.0	200.0	98.2	97.1	1.1	
SINGLE 3533	: 66519 OAHE 4	- 66556 OAHE2-3G	CKT: 1	196.4	194.2	200.0	200.0	98.2	97.1	1.1	
SINGLE 2958	: 60240 RIVRSID7	- 60008 RIVRS78G	CKT: 1	196.4	194.2	200.0	200.0	98.2	97.1	1.1	
SINGLE 3593	: 67106 LELANDO4	- 67110 LELAN41G	CKT: 1	196.1	193.9	200.0	200.0	98.1	97.0	1.1	
SINGLE 3006	: 60331 LKFLDXL3	- 63093 LGS 56Y	CKT: 1	195.9	193.7	200.0	200.0	98.0	96.9	1.1	
SINGLE 2461	: 66507 FTTHOMP4	- 66540 BIGBND14	CKT: 1	195.9	193.7	200.0	200.0	98.0	96.9	1.1	
SINGLE 3004	: 60331 LKFLDXL3	- 63091 LGS 12Y	CKT: 1	195.9	193.7	200.0	200.0	98.0	96.9	1.1	
SINGLE 3005	: 60331 LKFLDXL3	- 63092 LGS 34Y	CKT: 1	195.9	193.7	200.0	200.0	98.0	96.9	1.1	
SINGLE 3573	: 66751 CENTER 4	- 66749 CENTER1G	CKT: 1	195.8	193.6	200.0	200.0	97.9	96.8	1.1	
SINGLE 2699	: 6001 YANKEE 7	- 6002 YANKGEN	CKT: 1	195.7	193.5	200.0	200.0	97.9	96.8	1.1	
SINGLE 2753	: 34061 BNE JCT5	- 64067 BONDRNT5	CKT: 1	195.8	193.5	200.0	200.0	97.9	96.8	1.1	
SINGLE 3540	: 66537 WHITE 3	- 6653 GI0108	CKT: 1	195.5	193.3	200.0	200.0	97.8	96.7	1.1	
SINGLE 3020	: 60369 FENTON 7	- 6036 G162	CKT: 1	195.6	193.4	200.0	200.0	97.8	96.7	1.1	
SINGLE 1008	: 60130 SPLTRTA3	- 66537 WHITE 3	CKT: 1	195.4	193.2	200.0	200.0	97.7	96.6	1.1	
SINGLE 2717	: 34016 EMERY 5	- 34912 EMERYST1	CKT: 1	195.5	193.4	200.0	200.0	97.7	96.7	1.0	
SINGLE 1001	: 60126 SPLT RK3	- 60130 SPLTRTA3	CKT: 1	195.4	193.2	200.0	200.0	97.7	96.6	1.1	
SINGLE 2703	: 34006 LAKEFLD3	- 3400 G164	CKT: 1	195.3	193.1	200.0	200.0	97.6	96.6	1.0	
SINGLE 1002	: 60126 SPLT RK3	- 60131 SPLTRTB3	CKT: 1	195.3	193.1	200.0	200.0	97.6	96.5	1.1	
SINGLE 2705	: 34007 LAKEFLD5	- 6006 G262	CKT: 1	195.3	193.1	200.0	200.0	97.6	96.6	1.0	
SINGLE 1009	: 60131 SPLTRTB3	- 66564 SIOUXCY3	CKT: 1	195.3	193.1	200.0	200.0	97.6	96.5	1.1	
SINGLE 2973	: 60287 NOBLES 7	- 6430 G287	CKT: 1	195.2	193.1	200.0	200.0	97.6	96.5	1.1	
SINGLE 941	: 60015 ANSON CG	- 61475 ANS TR2Y	CKT: 2	194.7	192.6	200.0	200.0	97.4	96.3	1.1	
SINGLE 940	: 60015 ANSON CG	- 60129 SPLT RK7	CKT: 1	194.7	192.6	200.0	200.0	97.4	96.3	1.1	
SINGLE 2901	: 60108 WILMART3	- 8001 G261-ST	CKT: 1	194.1	192.0	200.0	200.0	97.1	96.0	1.1	
SINGLE 2934	: 60186 AS KING3	- 60006 KING 31G	CKT: 1	193.5	191.4	200.0	200.0	96.7	95.7	1.0	
SINGLE 2898	: 60105 PR ISLD3	- 60004 PR IS32G	CKT: 1	192.8	190.7	200.0	200.0	96.4	95.4	1.0	
SINGLE 2897	: 60105 PR ISLD3	- 60003 PR IS31G	CKT: 1	192.8	190.7	200.0	200.0	96.4	95.4	1.0	
SINGLE 3622	: 67316 COYOTE 3	- 67315 COYOTE1G	CKT: 1	192.8	190.8	200.0	200.0	96.4	95.4	1.0	
SINGLE 3590	: 67101 ANTELOP3	- 67107 ANTEL32G	CKT: 1	192.6	190.6	200.0	200.0	96.3	95.3	1.0	
SINGLE 3589	: 67101 ANTELOP3	- 67103 ANTEL31G	CKT: 1	192.6	190.6	200.0	200.0	96.3	95.3	1.0	
SINGLE 3592	: 67105 LELANDO3	- 67111 LELAN32G	CKT: 1	192.3	190.3	200.0	200.0	96.2	95.1	1.1	
SINGLE 2923	: 60160 SHERCO 3	- 60001 SHERC32G	CKT: 1	191.9	189.9	200.0	200.0	96.0	95.0	1.0	
SINGLE 2922	: 60160 SHERCO 3	- 60000 SHERC31G	CKT: 1	191.8	189.8	200.0	200.0	95.9	94.9	1.0	
SINGLE 2917	: 60151 MNTCELO3	- 60005 MNTCE31G	CKT: 1	191.8	189.9	200.0	200.0	95.9	94.9	1.0	
SINGLE 3449	: 63314 BIGSTON4	- 63315 BIGSTN1G	CKT: 1	191.6	189.6	200.0	200.0	95.8	94.8	1.0	
SINGLE 3399	: 63041 COAL CR4	- 63001 COAL 42G	CKT: 1	190.5	188.6	200.0	200.0	95.3	94.3	1.0	
SINGLE 3398	: 63041 COAL CR4	- 63000 COAL 41G	CKT: 1	190.5	188.6	200.0	200.0	95.3	94.3	1.0	
SINGLE 3596	: 67131 LARAMIE3	- 67118 LARAM31G	CKT: 1	189.9	188.0	200.0	200.0	95.0	94.0	1.0	
SINGLE 2924	: 60160 SHERCO 3	- 60002 SHERC33G	CKT: 1	188.4	186.6	200.0	200.0	94.2	93.3	0.9	
SINGLE 131	: 34059 BOONE 7	- 34076 BNE JCT7	CKT: 1	.....	196.1	.....	200.0	.....	98.0	*ELIM*	
SINGLE 245	: 34137 TRIBOJI5	- 66563 SPENCER5	CKT: 1	.....	195.8	.....	200.0	.....	97.9	*ELIM*	
SINGLE 1128	: 60193 BLUE LK7	- 61476 BLL TR5Y	CKT: 5	.....	196.0	.....	200.0	.....	98.0	*ELIM*	
SINGLE 1129	: 60193 BLUE LK7	- 61477 BLL TR6Y	CKT: 6	.....	196.0	.....	200.0	.....	98.0	*ELIM*	
SINGLE 1290	: 60287 NOBLES 7	- 60369 FENTON 7	CKT: C	.....	195.5	.....	200.0	.....	97.8	*ELIM*	
SINGLE 2313	: 66402 MI CTYW4	- 66450 MT WEST4	CKT: 1	.....	196.4	.....	200.0	.....	98.2	*ELIM*	
SINGLE 2449	: 66506 FTTHOMP3	- 67105 LELANDO3	CKT: 1	.....	195.7	.....	200.0	.....	97.9	*ELIM*	
SINGLE 2460	: 66507 FTTHOMP4	- 66541 BIGBND24	CKT: 1	.....	195.7	.....	200.0	.....	97.9	*ELIM*	
SINGLE 2480	: 66514 HURON 4	- 67205 BRDLAND4	CKT: 1	.....	196.2	.....	200.0	.....	98.1	*ELIM*	
SINGLE 2492	: 66523 SIOUXFL4	- 66578 PAHOJA 4	CKT: 1	.....	196.4	.....	200.0	.....	98.2	*ELIM*	
SINGLE 2594	: 67101 ANTELOP3	- 67120 HURON 3	CKT: 1	.....	196.2	.....	200.0	.....	98.1	*ELIM*	
SINGLE 2612	: 67120 HURON 3	- 67204 BRDLNDTY	CKT: 1	.....	196.2	.....	200.0	.....	98.1	*ELIM*	
SINGLE 2634	: 67204 BRDLNDTY	- 67205 BRDLAND4	CKT: 1	.....	196.2	.....	200.0	.....	98.1	*ELIM*	
SINGLE 2699	: 6001 YANKEE 7	- 6003 G176	CKT: 1	.....	195.5	.....	200.0	.....	97.8	*ELIM*	
SINGLE 2704	: 34008 FOX LK 5	- 34011 FOXLK53G	CKT: 1	.....	195.8	.....	200.0	.....	97.9	*ELIM*	
SINGLE 2713	: 34016 EMERY 5	- 34910 EMERYGT1	CKT: 1	.....	194.8	.....	200.0	.....	97.4	*ELIM*	
SINGLE 2714	: 34016 EMERY 5	- 34911 EMERYGT2	CKT: 1	.....	194.8	.....	200.0	.....	97.4	*ELIM*	
SINGLE 2803	: 34137 TRIBOJI5	- 63897 G298SYS	CKT: 1	.....	194.9	.....	200.0	.....	97.5	*ELIM*	
SINGLE 2900	: 60110 WILMART7	- 8006 G261-CT1	CKT: 1	.....	194.6	.....	200.0	.....	97.3	*ELIM*	
SINGLE 2901	: 60110 WILMART7	- 8007 G261-CT2	CKT: 1	.....	194.6	.....	200.0	.....	97.3	*ELIM*	
SINGLE 2936	: 60200 BLK DG27	- 60013 BLK D73G	CKT: 1	.....	195.7	.....	200.0	.....	97.9	*ELIM*	
SINGLE 2946	: 60214 HIBRDGE7	- 60010 HIBRD76G	CKT: 1	.....	195.0	.....	200.0	.....	97.5	*ELIM*	
SINGLE 3001	: 60331 LKFLDXL3	- 6015 G263	CKT: 1	.....	195.4	.....	200.0	.....	97.7	*ELIM*	
SINGLE 3329	: 61475 ANS TR2Y	- 60021 ANS 72G	CKT: 2	.....	195.0	.....	200.0	.....	97.5	*ELIM*	

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SINGLE 3330 : 61475 ANS TR2Y - 60022 ANS  73G CKT: 2   .....   195.0   .....   200.0   .....    97.5  *ELIM*
SINGLE 3398 : 63049 STANTON4 - 63002 STANT41G CKT: 1   .....   194.4   .....   200.0   .....    97.2  *ELIM*
SINGLE 3502 : 66441 GARRISN4 - 66457 GARISN1G CKT: 1   .....   196.0   .....   200.0   .....    98.0  *ELIM*
SINGLE 3503 : 66441 GARRISN4 - 66458 GARISN2G CKT: 1   .....   196.0   .....   200.0   .....    98.0  *ELIM*
SINGLE 3504 : 66441 GARRISN4 - 66459 GARISN3G CKT: 1   .....   196.0   .....   200.0   .....    98.0  *ELIM*
SINGLE 3505 : 66442 GARRISN7 - 66460 GARISN4G CKT: 1   .....   196.0   .....   200.0   .....    98.0  *ELIM*
SINGLE 3506 : 66442 GARRISN7 - 66461 GARISN5G CKT: 1   .....   196.0   .....   200.0   .....    98.0  *ELIM*
SINGLE 3519 : 66506 FTTHOMP3 - 66571 GR ISLD3 CKT: 1   .....   196.1   .....   200.0   .....    98.0  *ELIM*
SINGLE 3523 : 66509 FTRANDL4 - 66549 FTRDL78G CKT: 1   .....   195.4   .....   200.0   .....    97.7  *ELIM*
SINGLE 3525 : 66510 FTRANDL7 - 66546 FTRDL12G CKT: 1   .....   195.4   .....   200.0   .....    97.7  *ELIM*
SINGLE 3541 : 66540 BIGBND14 - 66542 BGBND12G CKT: 1   .....   195.0   .....   200.0   .....    97.5  *ELIM*
SINGLE 3542 : 66540 BIGBND14 - 66543 BGBND34G CKT: 1   .....   196.2   .....   200.0   .....    98.1  *ELIM*
SINGLE 3544 : 66541 BIGBND24 - 66545 BGBND78G CKT: 1   .....   195.7   .....   200.0   .....    97.9  *ELIM*
SINGLE 3550 : 66564 SIOUXCY3 - 63875 RAUN   3 CKT: 1   .....   196.1   .....   200.0   .....    98.0  *ELIM*
SINGLE 2987 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1   .....   197.5   .....   200.0   .....    98.7  *ELIM*
PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **               .....   197.5   .....   200.0   .....    98.7  *ELIM*
            : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
            : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
050    2    : ** MULTIPLE CONTINGENCY **               .....   197.5   .....   200.0   .....    98.7  *ELIM*
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
050    3    : ** MULTIPLE CONTINGENCY **               .....   197.5   .....   200.0   .....    98.7  *ELIM*
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 39901 COC DPC  - 38342 COC 69   CKT: 1
            : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
825         : ** MULTIPLE CONTINGENCY **               .....   197.5   .....   200.0   .....    98.7  *ELIM*
            : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
            : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
            : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1
ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **               .....   197.5   .....   200.0   .....    98.7  *ELIM*
            : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
050    1    : ** MULTIPLE CONTINGENCY **               .....   197.5   .....   200.0   .....    98.7  *ELIM*
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
            : 39901 COC DPC  - 38342 COC 69   CKT: 1
            : 38333 HLT 69   - 68821 MAUSTON  CKT: 1

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 79) 64203 NW FTDG5 - 64205 FT.DODG5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 2744 : 34054 GR JCT 5 - 63771 DRAGER 5 CKT: 1   171.9   169.5   167.0   167.0   103.9   102.2     1.7
SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1   168.3   166.0   167.0   167.0   102.4   100.7     1.7
SINGLE 157  : 34073 GR JCT 7 - 34529 GRJCT5Y  CKT: 1   167.7   165.4   167.0   167.0   101.0    99.4     1.6
SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   166.5   164.2   167.0   167.0   101.0    99.4     1.6
SINGLE 122  : 34054 GR JCT 5 - 34529 GRJCT5Y  CKT: 1   167.7   165.3   167.0   167.0   101.0    99.4     1.6
SINGLE 132  : 34059 BOONE  7 - 34073 GR JCT 7 CKT: 1   167.6   165.2   167.0   167.0   100.9    99.3     1.6
SINGLE 55   : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1   165.8   163.4   167.0   167.0   100.3    98.6     1.7
SINGLE 2513 : 66561 DENISON5 - 66567 DENISON4 CKT: 1   165.5   163.1   167.0   167.0    99.9    98.3     1.6
SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   165.1   162.7   167.0   167.0    99.9    98.2     1.7
SINGLE 109  : 34047 ANTA TP5 - 66561 DENISON5 CKT: 1   165.4   163.1   167.0   167.0    99.9    98.3     1.6
SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   164.9   162.7   167.0   167.0    99.8    98.2     1.6
SINGLE 2520 : 66565 SIOUXCY4 - 66567 DENISON4 CKT: 1   164.9   162.5   167.0   167.0    99.6    97.9     1.7
SINGLE 2719 : 34016 EMERY  5 - 64252 FLOYD  5 CKT: 1   164.3   162.0   167.0   167.0    99.4    97.8     1.6
SINGLE 3521 : 66506 FTTHOMP3 - 66571 GR ISLD3 CKT: 1   164.3   162.0   167.0   167.0    99.2    97.6     1.6
SINGLE 2820 : 34189 OTTUMWA5 - 34146 OTTUMW1G CKT: 1   163.9   161.7   167.0   167.0    99.2    97.6     1.6
SINGLE 2894 : 60102 ADAMS  3 - 63032 PL VLLY3 CKT: 1   163.9   161.6   167.0   167.0    99.1    97.5     1.6
SINGLE 156  : 34072 FRNKLIN7 - 34571 FRNKLN_Y CKT: 1   164.1   161.7   167.0   167.0    99.0    97.4     1.6
SINGLE 2860 : 34571 FRNKLN_Y - 64239 FRANKLN5 CKT: 1   164.1   161.7   167.0   167.0    99.0    97.4     1.6
SINGLE 155  : 34072 FRNKLIN7 - 34077 IA FALS7 CKT: 1   164.1   161.7   167.0   167.0    99.0    97.4     1.6
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SINGLE 2775	: 34093 ARNOLD 3 - 64352 TIFFIN 3 CKT: 1	163.7	161.3	167.0	167.0	98.8	97.1	1.7
SINGLE 3550	: 66563 SPENCER5 - 63713 OSGOOD 5 CKT: 1	163.6	161.3	167.0	167.0	98.7	97.1	1.6
SINGLE 107	: 34047 ANTA TP5 - 34048 ANITA 5 CKT: 1	163.6	161.3	167.0	167.0	98.6	97.1	1.5
SINGLE 110	: 34048 ANITA 5 - 34050 GU CTR 5 CKT: 1	163.4	161.1	167.0	167.0	98.5	96.9	1.6
SINGLE 160	: 34075 ELDORA 7 - 34077 IA FALS7 CKT: 1	163.2	160.9	167.0	167.0	98.4	96.9	1.5
SINGLE 46	: 34015 LIME CK5 - 34016 EMERY 5 CKT: 1	163.2	160.8	167.0	167.0	98.4	96.8	1.6
SINGLE 32	: 34009 WINBAGO5 - 61932 RUTLAND5 CKT: 1	163.1	160.8	167.0	167.0	98.4	96.8	1.6
885	: ** MULTIPLE CONTINGENCY **	163.0	160.7	167.0	167.0	98.3	96.8	1.5
	: 69507 SENECA 5 - 69511 BELLCTR5 CKT: 1							
	: 69507 SENECA 5 - 69523 GENOA 5 CKT: 1							
SINGLE 146	: 34066 M-TOWN 7 - 34169 WELSBGT7 CKT: 1	162.8	160.5	167.0	167.0	98.2	96.6	1.6
SINGLE 3553	: 66565 SIOUXCY4 - 64994 TWIN CH4 CKT: 1	162.8	160.5	167.0	167.0	98.2	96.6	1.6
SINGLE 161	: 34075 ELDORA 7 - 34169 WELSBGT7 CKT: 1	162.9	160.6	167.0	167.0	98.2	96.7	1.5
SINGLE 9	: 6450 PRIMGHAR - 66566 SIOUXCY5 CKT: 1	163.0	.....	167.0	.....	98.2	.....	*NEW*
SINGLE 2759	: 34066 M-TOWN 7 - 34088 M-TOWN3G CKT: 1	163.0	160.7	167.0	167.0	98.2	96.7	1.5
SINGLE 28	: 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1	162.7	160.4	167.0	167.0	98.1	96.6	1.5
SINGLE 3563	: 66593 J4IDAGR8 - 63893 LT SX 8 CKT: 1	162.8	160.4	167.0	167.0	98.1	96.5	1.6
SINGLE 2806	: 34139 HANCOCK5 - 63716 BURT 5 CKT: 1	162.7	.....	167.0	.....	98.1	.....	*NEW*
SINGLE 112	: 34049 SCRANTN5 - 34050 GU CTR 5 CKT: 1	162.8	160.5	167.0	167.0	98.1	96.6	1.5
SINGLE 3552	: 66564 SIOUXCY3 - 63875 RAUN 3 CKT: 1	162.8	160.5	167.0	167.0	98.1	96.5	1.6
BASE CASE	: ** BASE CASE **	161.6	159.3	167.0	167.0	97.3	95.8	1.5
SINGLE 144	: 34066 M-TOWN 7 - 34071 FERNALD7 CKT: 1	160.4	158.3	167.0	167.0	96.8	95.3	1.5
SINGLE 173	: 34084 PARNEL 5 - 34185 POWESHK5 CKT: 1	160.6	158.3	167.0	167.0	96.7	95.1	1.6
SINGLE 1292	: 60287 NOBLES 7 - 60369 FENTON 7 CKT: C	160.6	158.3	167.0	167.0	96.6	95.0	1.6
SINGLE 2706	: 34008 FOX LK 5 - 34011 FOXLK53G CKT: 1	160.5	158.2	167.0	167.0	96.6	95.0	1.6
SINGLE 145	: 34066 M-TOWN 7 - 34085 BLRSTWN7 CKT: 1	160.5	158.2	167.0	167.0	96.6	95.1	1.5
SINGLE 2938	: 60200 BLK DG27 - 60013 BLK D73G CKT: 1	160.6	158.3	167.0	167.0	96.6	95.1	1.5
SINGLE 300	: 34185 POWESHK5 - 34191 REASNOR5 CKT: 1	160.3	158.0	167.0	167.0	96.5	94.9	1.6
SINGLE 3003	: 60331 LKFLDXL3 - 6015 G263 CKT: 1	160.4	158.1	167.0	167.0	96.5	94.9	1.6
SINGLE 3554	: 66566 SIOUXCY5 - 63889 PLYMOTH5 CKT: 1	160.3	158.1	167.0	167.0	96.5	95.0	1.5
SINGLE 3331	: 61475 ANS TR2Y - 60021 ANS 72G CKT: 2	160.4	158.1	167.0	167.0	96.5	94.9	1.6
SINGLE 3332	: 61475 ANS TR2Y - 60022 ANS 73G CKT: 2	160.4	158.1	167.0	167.0	96.5	94.9	1.6
SINGLE 114	: 34051 TOLEDO 7 - 34066 M-TOWN 7 CKT: 1	160.3	158.0	167.0	167.0	96.5	94.9	1.6
SINGLE 154	: 34070 NEVADAT7 - 34071 FERNALD7 CKT: 1	159.9	157.7	167.0	167.0	96.5	95.0	1.5
SINGLE 120	: 34054 GR JCT 5 - 34058 PERRY 5 CKT: 1	160.0	157.8	167.0	167.0	96.4	94.8	1.6
SINGLE 3533	: 66519 OAHE 4 - 66556 OAHE2-3G CKT: 1	160.3	158.0	167.0	167.0	96.4	94.9	1.5
SINGLE 2948	: 60214 HIBRDGE7 - 60010 HIBRD76G CKT: 1	160.1	157.8	167.0	167.0	96.3	94.8	1.5
SINGLE 3400	: 63049 STANTON4 - 63002 STANT41G CKT: 1	160.2	157.9	167.0	167.0	96.3	94.8	1.5
SINGLE 2461	: 66507 FTTHOMP4 - 66540 BIGBND14 CKT: 1	160.1	157.8	167.0	167.0	96.3	94.7	1.6
SINGLE 138	: 34061 BNE JCT5 - 34076 BNE JCT7 CKT: 3	159.9	157.7	167.0	167.0	96.3	94.8	1.5
SINGLE 2758	: 34065 NEVADA 7 - 34161 NEVADA 9 CKT: 1	159.9	157.6	167.0	167.0	96.2	94.6	1.6
SINGLE 3593	: 67106 LELANDO4 - 67110 LELAN41G CKT: 1	160.0	157.7	167.0	167.0	96.2	94.7	1.5
SINGLE 143	: 34065 NEVADA 7 - 34070 NEVADAT7 CKT: 1	159.9	157.6	167.0	167.0	96.2	94.6	1.6
SINGLE 2902	: 60110 WILMART7 - 8006 G261-CT1 CKT: 1	159.9	157.6	167.0	167.0	96.2	94.6	1.6
SINGLE 2903	: 60110 WILMART7 - 8007 G261-CT2 CKT: 1	159.9	157.6	167.0	167.0	96.2	94.6	1.6
SINGLE 3573	: 66751 CENTER 4 - 66749 CENTER1G CKT: 1	159.9	157.6	167.0	167.0	96.1	94.5	1.6
SINGLE 2699	: 6001 YANKEE 7 - 6002 YANKGEN CKT: 1	159.8	157.4	167.0	167.0	96.0	94.5	1.5
SINGLE 3540	: 66537 WHITE 3 - 6653 GI0108 CKT: 1	159.7	157.4	167.0	167.0	96.0	94.4	1.6
SINGLE 163	: 34079 TRAER 5 - 34087 DYSART 5 CKT: 1	159.4	157.1	167.0	167.0	95.9	94.4	1.5
SINGLE 3020	: 60369 FENTON 7 - 6036 G162 CKT: 1	159.6	157.3	167.0	167.0	95.9	94.4	1.5
SINGLE 151	: 34068 M-TOWN 5 - 34079 TRAER 5 CKT: 1	159.3	157.0	167.0	167.0	95.9	94.4	1.5
SINGLE 3006	: 60331 LKFLDXL3 - 63093 LGS 56Y CKT: 1	159.5	157.2	167.0	167.0	95.8	94.3	1.5
SINGLE 2716	: 34016 EMERY 5 - 34911 EMERYGT2 CKT: 1	159.2	157.0	167.0	167.0	95.8	94.2	1.6
SINGLE 2973	: 60287 NOBLES 7 - 6430 G287 CKT: 1	159.4	157.1	167.0	167.0	95.8	94.2	1.6
SINGLE 2715	: 34016 EMERY 5 - 34910 EMERYGT1 CKT: 1	159.2	157.0	167.0	167.0	95.8	94.2	1.6
SINGLE 3004	: 60331 LKFLDXL3 - 63091 LGS 12Y CKT: 1	159.5	157.2	167.0	167.0	95.8	94.3	1.5
SINGLE 3005	: 60331 LKFLDXL3 - 63092 LGS 34Y CKT: 1	159.5	157.2	167.0	167.0	95.8	94.3	1.5
SINGLE 2702	: 6450 PRIMGHAR - 6460 GI0304F1 CKT: 1	159.2	.....	167.0	.....	95.7	.....	*NEW*
SINGLE 1001	: 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1	159.4	157.0	167.0	167.0	95.7	94.2	1.5
SINGLE 3551	: 66563 SPENCER5 - 63906 BVISTA 5 CKT: 1	159.1	157.7	167.0	167.0	95.7	94.8	0.9
SINGLE 1008	: 60130 SPLTRTA3 - 66537 WHITE 3 CKT: 1	159.4	157.0	167.0	167.0	95.7	94.2	1.5
SINGLE 2703	: 34006 LAKEFLD3 - 3400 G164 CKT: 1	159.1	156.8	167.0	167.0	95.6	94.0	1.6
SINGLE 941	: 60015 ANSON CG - 61475 ANS TR2Y CKT: 2	159.2	156.9	167.0	167.0	95.6	94.1	1.5

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SINGLE 940  : 60015 ANSON CG - 60129 SPLT RK7 CKT: 1   159.2   156.9   167.0   167.0    95.6    94.1     1.5
SINGLE 24   : 34007 LAKEFLD5 - 34137 TRIBOJI5 CKT: 1   159.0   155.9   167.0   167.0    95.5    93.4     2.1
SINGLE 2805 : 34137 TRIBOJI5 - 63897 G298SYS  CKT: 1   158.9   156.5   167.0   167.0    95.4    93.9     1.5
SINGLE 137  : 34061 BNE JCT5 - 34076 BNE JCT7 CKT: 2   158.3   156.0   167.0   167.0    95.3    93.7     1.6
SINGLE 2753 : 34061 BNE JCT5 - 64067 BONDRNT5 CKT: 1   157.0   155.0   167.0   167.0    95.3    93.9     1.4
SINGLE 2705 : 34007 LAKEFLD5 -  6006 G262     CKT: 1   158.8   156.4   167.0   167.0    95.3    93.8     1.5
SINGLE 2901 : 60108 WILMART3 -  8001 G261-ST  CKT: 1   158.3   156.0   167.0   167.0    95.1    93.5     1.6
SINGLE 2717 : 34016 EMERY  5 - 34912 EMERYST1 CKT: 1   157.9   155.6   167.0   167.0    94.8    93.3     1.5
SINGLE 133  : 34059 BOONE  7 - 34076 BNE JCT7 CKT: 1   157.9   155.5   167.0   167.0    94.5    92.9     1.6
SINGLE 2897 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1   157.2   154.9   167.0   167.0    94.3    92.8     1.5
SINGLE 2898 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1   157.2   154.9   167.0   167.0    94.3    92.8     1.5
SINGLE 116  : 34052 AMES   7 - 34070 NEVADAT7 CKT: 1   156.6   154.5   167.0   167.0    94.3    92.9     1.4
SINGLE 2917 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1   156.8   154.4   167.0   167.0    94.0    92.4     1.6
SINGLE 2923 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1   156.8   154.5   167.0   167.0    94.0    92.5     1.5
SINGLE 2922 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1   156.7   154.4   167.0   167.0    93.9    92.4     1.5
SINGLE 117  : 34052 AMES   7 - 34076 BNE JCT7 CKT: 1   156.0   153.9   167.0   167.0    93.9    92.4     1.5
SINGLE 247  : 34137 TRIBOJI5 - 66563 SPENCER5 CKT: 1   156.5   153.3   167.0   167.0    93.8    91.7     2.1
SINGLE 2755 : 34062 BNE JCT8 - 64504 STANGE8  CKT: 1   155.6   153.4   167.0   167.0    93.6    92.1     1.5
SINGLE 136  : 34061 BNE JCT5 - 34062 BNE JCT8 CKT: 1   155.6   153.4   167.0   167.0    93.6    92.1     1.5
SINGLE 2924 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1   154.2   151.9   167.0   167.0    92.2    90.7     1.5
SINGLE 2956 : 60240 RIVRSID7 - 60008 RIVRS78G CKT: 1   .....   157.4   .....   167.0   .....    94.4  *ELIM*
SINGLE 3360 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1   .....   161.6   .....   167.0   .....    97.5  *ELIM*
SINGLE 3541 : 66540 BIGBND14 - 66542 BGBND12G CKT: 1   .....   158.3   .....   167.0   .....    95.1  *ELIM*
*** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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 80) 64203 NW FTDG5 - 64230 POMEROY5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   234.3   228.0   173.0   173.0   136.7   132.7     4.0
SINGLE 2744 : 34054 GR JCT 5 - 63771 DRAGER 5 CKT: 1   234.5   228.3   173.0   173.0   136.0   132.1     3.9
SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   229.5   223.4   173.0   173.0   133.6   129.7     3.9
SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1   227.5   221.5   173.0   173.0   132.8   129.0     3.8
SINGLE 2894 : 60102 ADAMS  3 - 63032 PL VLLY3 CKT: 1   225.3   219.3   173.0   173.0   131.0   127.2     3.8
SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   224.6   218.7   173.0   173.0   130.6   126.9     3.7
SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1   224.8   218.8   173.0   173.0   130.5   126.7     3.8
SINGLE 32   : 34009 WINBAGO5 - 61932 RUTLAND5 CKT: 1   224.6   218.5   173.0   173.0   130.4   126.6     3.8
SINGLE 109  : 34047 ANTA TP5 - 66561 DENISON5 CKT: 1   223.2   217.1   173.0   173.0   129.6   125.9     3.7
SINGLE 2513 : 66561 DENISON5 - 66567 DENISON4 CKT: 1   223.1   217.0   173.0   173.0   129.6   125.8     3.8
SINGLE 28   : 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1   223.1   217.0   173.0   173.0   129.4   125.6     3.8
SINGLE 120  : 34054 GR JCT 5 - 34058 PERRY  5 CKT: 1   223.5   217.4   173.0   173.0   129.4   125.6     3.8
SINGLE 33   : 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1   222.7   216.7   173.0   173.0   129.2   125.4     3.8
SINGLE 2704 : 34006 LAKEFLD3 - 63875 RAUN   3 CKT: 1   222.1   216.0   173.0   173.0   128.8   125.0     3.8
SINGLE 9    :  6450 PRIMGHAR - 66566 SIOUXCY5 CKT: 1   221.8   .....   173.0   .....   128.6   .....  *NEW*
SINGLE 132  : 34059 BOONE  7 - 34073 GR JCT 7 CKT: 1   221.1   215.0   173.0   173.0   128.1   124.4     3.7
SINGLE 2718 : 34016 EMERY  5 - 63774 SHEFFLD5 CKT: 1   221.0   215.0   173.0   173.0   128.1   124.4     3.7
SINGLE 157  : 34073 GR JCT 7 - 34529 GRJCT5Y  CKT: 1   221.1   215.1   173.0   173.0   128.1   124.4     3.7
SINGLE 122  : 34054 GR JCT 5 - 34529 GRJCT5Y  CKT: 1   221.1   215.1   173.0   173.0   128.1   124.4     3.7
SINGLE 21   : 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1   220.6   214.2   173.0   173.0   127.9   124.0     3.9
SINGLE 2716 : 34016 EMERY  5 - 34911 EMERYGT2 CKT: 1   220.7   214.7   173.0   173.0   127.8   124.1     3.7
SINGLE 2715 : 34016 EMERY  5 - 34910 EMERYGT1 CKT: 1   220.7   214.7   173.0   173.0   127.8   124.1     3.7
SINGLE 1275 : 60265 LOON TP7 - 60830 EASTWD18 CKT: P   220.0   214.0   173.0   173.0   127.6   123.8     3.8
SINGLE 1696 : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1   219.9   213.8   173.0   173.0   127.5   123.7     3.8
SINGLE 108  : 34047 ANTA TP5 - 66560 CRESTON5 CKT: 1   219.9   213.8   173.0   173.0   127.4   123.7     3.7
SINGLE 992  : 60122 LAWRENC7 - 60834 LAWRENC8 CKT: 1   219.8   213.8   173.0   173.0   127.4   123.7     3.7
SINGLE 2806 : 34139 HANCOCK5 - 63716 BURT   5 CKT: 1   219.6   213.4   173.0   173.0   127.3   123.5     3.8
SINGLE 2916 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1   219.7   213.6   173.0   173.0   127.3   123.6     3.7
SINGLE 2759 : 34066 M-TOWN 7 - 34088 M-TOWN3G CKT: 1   219.5   213.5   173.0   173.0   127.2   123.5     3.7
SINGLE 952  : 60107 W FARIB7 - 60265 LOON TP7 CKT: C   219.4   213.4   173.0   173.0   127.2   123.4     3.8
SINGLE 131  : 34058 PERRY  5 - 34179 JASPER 5 CKT: 1   219.4   213.4   173.0   173.0   127.1   123.4     3.7
SINGLE 1697 : 61952 S FARIB5 - 61964 OWATNNA5 CKT: 1   219.4   .....   173.0   .....   127.1   .....  *NEW*
BASE CASE   : **       BASE CASE      **               218.4   212.3   173.0   173.0   126.5   122.8     3.7
SINGLE 2753 : 34061 BNE JCT5 - 64067 BONDRNT5 CKT: 1   216.3   210.4   173.0   173.0   125.9   122.2     3.7
SINGLE 146  : 34066 M-TOWN 7 - 34169 WELSBGT7 CKT: 1   217.1   211.0   173.0   173.0   125.9   122.1     3.8
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SINGLE 137	: 34061 BNE JCT5 - 34076 BNE JCT7 CKT: 2	217.3	211.3	173.0	173.0	125.9	122.2	3.7
SINGLE 2721	: 34019 HAZLTON5 - 64250 BLKHAWK5 CKT: 1	217.3	211.3	173.0	173.0	125.9	122.3	3.6
SINGLE 2451	: 66506 FTTHOMP3 - 67105 LELANDO3 CKT: 1	217.3	211.3	173.0	173.0	125.9	122.2	3.7
SINGLE 2482	: 66514 HURON 4 - 67205 BRDLAND4 CKT: 1	217.2	211.2	173.0	173.0	125.8	122.1	3.7
SINGLE 2496	: 66526 UTICAJC4 - 66536 RASMUSN4 CKT: 1	217.2	211.1	173.0	173.0	125.8	122.0	3.8
SINGLE 1130	: 60193 BLUE LK7 - 61476 BLL TR5Y CKT: 5	217.2	211.2	173.0	173.0	125.8	122.1	3.7
SINGLE 2595	: 67101 ANTELOP3 - 67120 HURON 3 CKT: 1	217.2	211.2	173.0	173.0	125.8	122.1	3.7
SINGLE 2602	: 67105 LELANDO3 - 67160 GROTON 3 CKT: 1	217.3	211.2	173.0	173.0	125.8	122.1	3.7
SINGLE 2613	: 67120 HURON 3 - 67204 BRDLNDTY CKT: 1	217.2	211.2	173.0	173.0	125.8	122.1	3.7
SINGLE 2635	: 67204 BRDLNDTY - 67205 BRDLAND4 CKT: 1	217.2	211.2	173.0	173.0	125.8	122.1	3.7
SINGLE 1131	: 60193 BLUE LK7 - 61477 BLL TR6Y CKT: 6	217.2	211.2	173.0	173.0	125.8	122.0	3.8
SINGLE 161	: 34075 ELDORA 7 - 34169 WELSBGT7 CKT: 1	217.1	211.1	173.0	173.0	125.8	122.1	3.7
SINGLE 160	: 34075 ELDORA 7 - 34077 IA FALS7 CKT: 1	216.8	210.8	173.0	173.0	125.7	122.0	3.7
SINGLE 2755	: 34062 BNE JCT8 - 64504 STANGE8 CKT: 1	217.2	211.1	173.0	173.0	125.7	122.0	3.7
SINGLE 2470	: 66509 FTRANDL4 - 66565 SIOUXCY4 CKT: 1	217.1	211.1	173.0	173.0	125.7	122.0	3.7
SINGLE 136	: 34061 BNE JCT5 - 34062 BNE JCT8 CKT: 1	217.2	211.1	173.0	173.0	125.7	122.0	3.7
SINGLE 20	: 34006 LAKEFLD3 - 60286 NOBLES 3 CKT: C	217.1	211.0	173.0	173.0	125.7	122.0	3.7
SINGLE 2302	: 66306 SIOUXC2T - 66565 SIOUXCY4 CKT: 1	216.9	210.8	173.0	173.0	125.7	121.9	3.8
SINGLE 8	: 6450 PRIMGHAR - 66563 SPENCER5 CKT: 1	216.9	.....	173.0	.....	125.6	.....	*NEW*
SINGLE 2303	: 66307 SIOUXC3T - 66565 SIOUXCY4 CKT: 1	216.8	210.6	173.0	173.0	125.6	121.8	3.8
SINGLE 2304	: 66307 SIOUXC3T - 66566 SIOUXCY5 CKT: 1	216.8	210.6	173.0	173.0	125.6	121.8	3.8
SINGLE 2305	: 66309 SIOUXC4T - 66565 SIOUXCY4 CKT: 1	216.8	210.6	173.0	173.0	125.6	121.8	3.8
SINGLE 2306	: 66309 SIOUXC4T - 66566 SIOUXCY5 CKT: 1	216.8	210.6	173.0	173.0	125.6	121.8	3.8
SINGLE 2299	: 66303 SIOUXC1T - 66564 SIOUXCY3 CKT: 1	216.9	210.8	173.0	173.0	125.6	121.9	3.7
SINGLE 2462	: 66507 FTTHOMP4 - 66541 BIGBND24 CKT: 1	217.0	210.9	173.0	173.0	125.6	121.9	3.7
SINGLE 2300	: 66303 SIOUXC1T - 66565 SIOUXCY4 CKT: 1	216.9	210.8	173.0	173.0	125.6	121.9	3.7
SINGLE 2301	: 66306 SIOUXC2T - 66564 SIOUXCY3 CKT: 1	216.9	210.8	173.0	173.0	125.6	121.9	3.7
SINGLE 2938	: 60200 BLK DG27 - 60013 BLK D73G CKT: 1	217.0	211.0	173.0	173.0	125.6	121.9	3.7
SINGLE 42	: 34014 ADAMS 5 - 34015 LIME CK5 CKT: 1	216.6	210.6	173.0	173.0	125.5	121.8	3.7
SINGLE 156	: 34072 FRNKLIN7 - 34571 FRNKLN_Y CKT: 1	216.2	210.2	173.0	173.0	125.4	121.7	3.7
SINGLE 2860	: 34571 FRNKLN_Y - 64239 FRANKLN5 CKT: 1	216.2	210.2	173.0	173.0	125.4	121.7	3.7
SINGLE 133	: 34059 BOONE 7 - 34076 BNE JCT7 CKT: 1	217.1	211.0	173.0	173.0	125.4	121.7	3.7
SINGLE 2700	: 6001 YANKEE 7 - 6003 G176 CKT: 1	216.6	210.5	173.0	173.0	125.4	121.6	3.8
SINGLE 155	: 34072 FRNKLIN7 - 34077 IA FALS7 CKT: 1	216.2	210.2	173.0	173.0	125.4	121.7	3.7
SINGLE 2706	: 34008 FOX LK 5 - 34011 FOXLK53G CKT: 1	216.3	210.2	173.0	173.0	125.2	121.5	3.7
SINGLE 2948	: 60214 HIBRDGE7 - 60010 HIBRD76G CKT: 1	216.4	210.3	173.0	173.0	125.2	121.5	3.7
SINGLE 1292	: 60287 NOBLES 7 - 60369 FENTON 7 CKT: C	216.1	210.1	173.0	173.0	125.1	121.4	3.7
SINGLE 244	: 34136 TRIBOJI8 - 34906 FLYCLD 8 CKT: 1	216.1	210.0	173.0	173.0	125.1	121.4	3.7
SINGLE 3003	: 60331 LKFLDXL3 - 6015 G263 CKT: 1	216.1	210.1	173.0	173.0	125.1	121.4	3.7
SINGLE 3331	: 61475 ANS TR2Y - 60021 ANS 72G CKT: 2	215.9	209.9	173.0	173.0	125.0	121.2	3.8
SINGLE 3332	: 61475 ANS TR2Y - 60022 ANS 73G CKT: 2	215.9	209.9	173.0	173.0	125.0	121.2	3.8
SINGLE 2902	: 60110 WILMART7 - 8006 G261-CT1 CKT: 1	215.7	209.6	173.0	173.0	124.8	121.1	3.7
SINGLE 2903	: 60110 WILMART7 - 8007 G261-CT2 CKT: 1	215.7	209.6	173.0	173.0	124.8	121.1	3.7
SINGLE 2515	: 66562 EAGLE 4 - 66578 PAHOJA 4 CKT: 1	215.3	209.2	173.0	173.0	124.7	120.9	3.8
SINGLE 2494	: 66523 SIOUXFL4 - 66578 PAHOJA 4 CKT: 1	215.2	209.1	173.0	173.0	124.6	120.8	3.8
SINGLE 2461	: 66507 FTTHOMP4 - 66540 BIGBND14 CKT: 1	215.3	209.3	173.0	173.0	124.6	120.9	3.7
SINGLE 2699	: 6001 YANKEE 7 - 6002 YANKGEN CKT: 1	214.7	208.7	173.0	173.0	124.2	120.5	3.7
SINGLE 3020	: 60369 FENTON 7 - 6036 G162 CKT: 1	214.4	208.4	173.0	173.0	124.0	120.3	3.7
SINGLE 3006	: 60331 LKFLDXL3 - 63093 LGS 56Y CKT: 1	214.3	208.3	173.0	173.0	123.9	120.2	3.7
SINGLE 46	: 34015 LIME CK5 - 34016 EMERY 5 CKT: 1	213.7	207.8	173.0	173.0	123.9	120.2	3.7
SINGLE 3004	: 60331 LKFLDXL3 - 63091 LGS 12Y CKT: 1	214.3	208.3	173.0	173.0	123.9	120.2	3.7
SINGLE 3005	: 60331 LKFLDXL3 - 63092 LGS 34Y CKT: 1	214.3	208.3	173.0	173.0	123.9	120.2	3.7
SINGLE 2973	: 60287 NOBLES 7 - 6430 G287 CKT: 1	214.0	207.9	173.0	173.0	123.7	120.0	3.7
SINGLE 2703	: 34006 LAKEFLD3 - 3400 G164 CKT: 1	213.5	207.5	173.0	173.0	123.4	119.7	3.7
SINGLE 940	: 60015 ANSON CG - 60129 SPLT RK7 CKT: 1	213.4	207.4	173.0	173.0	123.4	119.7	3.7
SINGLE 941	: 60015 ANSON CG - 61475 ANS TR2Y CKT: 2	213.4	207.4	173.0	173.0	123.4	119.7	3.7
SINGLE 1008	: 60130 SPLTRTA3 - 66537 WHITE 3 CKT: 1	213.1	206.9	173.0	173.0	123.2	119.4	3.8
SINGLE 1001	: 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1	213.1	206.9	173.0	173.0	123.2	119.4	3.8
SINGLE 2705	: 34007 LAKEFLD5 - 6006 G262 CKT: 1	212.4	206.4	173.0	173.0	122.8	119.0	3.8
SINGLE 2702	: 6450 PRIMGHAR - 6460 GI0304F1 CKT: 1	212.2	.....	173.0	.....	122.7	.....	*NEW*
SINGLE 2805	: 34137 TRIBOJI5 - 63897 G298SYS CKT: 1	211.5	205.4	173.0	173.0	122.2	118.5	3.7
SINGLE 24	: 34007 LAKEFLD5 - 34137 TRIBOJI5 CKT: 1	210.4	202.0	173.0	173.0	121.5	116.5	5.0
SINGLE 2924	: 60160 SHERCO 3 - 60002 SHERC33G CKT: 1	208.3	202.2	173.0	173.0	120.0	116.3	3.7

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 SINGLE 247  : 34137 TRIBOJI5 - 66563 SPENCER5 CKT: 1   202.6   194.1   173.0   173.0   116.7   111.6     5.1
 SINGLE 2754 : 34061 BNE JCT5 - 64205 FT.DODG5 CKT: 1   201.3   195.5   173.0   173.0   116.1   112.5     3.6
 SINGLE 53   : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1   .....   213.8   .....   173.0   .....   124.0  *ELIM*
 SINGLE 2503 : 66536 RASMUSN4 - 66565 SIOUXCY4 CKT: 1   .....   211.3   .....   173.0   .....   122.2  *ELIM*
 SINGLE 2516 : 66563 SPENCER5 - 66566 SIOUXCY5 CKT: 1   .....   214.0   .....   173.0   .....   123.8  *ELIM*
 SINGLE 2956 : 60240 RIVRSID7 - 60008 RIVRS78G CKT: 1   .....   209.7   .....   173.0   .....   121.1  *ELIM*
 *** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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 81) 64239 FRANKLN5 - 64285 BUTLER 5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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 SINGLE 2719 : 34016 EMERY  5 - 64252 FLOYD  5 CKT: 1   322.2   319.3   181.0   181.0   181.4   179.5     1.9
 SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1   309.5   306.8   181.0   181.0   174.4   172.6     1.8
 SINGLE 155  : 34072 FRNKLIN7 - 34077 IA FALS7 CKT: 1   287.2   284.6   181.0   181.0   160.0   158.3     1.7
 SINGLE 156  : 34072 FRNKLIN7 - 34571 FRNKLN_Y CKT: 1   287.2   284.6   181.0   181.0   159.9   158.3     1.6
 SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   281.5   278.6   181.0   181.0   157.1   155.4     1.7
 SINGLE 163  : 34079 TRAER  5 - 34087 DYSART 5 CKT: 1   281.8   279.1   181.0   181.0   157.0   155.3     1.7
 SINGLE 160  : 34075 ELDORA 7 - 34077 IA FALS7 CKT: 1   280.5   277.9   181.0   181.0   156.4   154.7     1.7
 SINGLE 46   : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1   280.2   277.5   181.0   181.0   156.4   154.7     1.7
 SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   279.1   276.5   181.0   181.0   155.7   154.1     1.6
 SINGLE 161  : 34075 ELDORA 7 - 34169 WELSBGT7 CKT: 1   277.9   275.3   181.0   181.0   154.9   153.3     1.6
 SINGLE 151  : 34068 M-TOWN 5 - 34079 TRAER  5 CKT: 1   277.3   274.7   181.0   181.0   154.6   153.0     1.6
 SINGLE 2754 : 34061 BNE JCT5 - 64205 FT.DODG5 CKT: 1   275.5   272.9   181.0   181.0   153.4   151.8     1.6
 SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   274.3   271.8   181.0   181.0   153.1   151.6     1.5
 SINGLE 42   : 34014 ADAMS  5 - 34015 LIME CK5 CKT: 1   273.8   271.1   181.0   181.0   152.5   150.9     1.6
 SINGLE 146  : 34066 M-TOWN 7 - 34169 WELSBGT7 CKT: 1   272.2   269.5   181.0   181.0   152.0   150.4     1.6
 SINGLE 54   : 34018 HAZLTON3 - 34020 HAZL S 5 CKT: 2   271.6   269.2   181.0   181.0   151.6   150.1     1.5
 SINGLE 62   : 34021 LANSINGW - 34022 LANSING5 CKT: 1   271.7   269.3   181.0   181.0   151.4   149.8     1.6
 SINGLE 2723 : 34021 LANSINGW - 34024 LANS5 4G CKT: 1   270.6   268.1   181.0   181.0   150.6   149.0     1.6
 SINGLE 2713 : 34014 ADAMS  5 - 69526 BVR CRK5 CKT: 1   270.5   268.0   181.0   181.0   150.6   149.1     1.5
 SINGLE 53   : 34018 HAZLTON3 - 34019 HAZLTON5 CKT: 1   270.0   267.5   181.0   181.0   150.4   148.8     1.6
 SINGLE 2727 : 34022 LANSING5 - 69531 POSTVIL5 CKT: 1   270.0   267.5   181.0   181.0   150.4   148.8     1.6
 SINGLE 114  : 34051 TOLEDO 7 - 34066 M-TOWN 7 CKT: 1   270.3   267.8   181.0   181.0   150.4   148.8     1.6
 SINGLE 173  : 34084 PARNEL 5 - 34185 POWESHK5 CKT: 1   269.8   267.2   181.0   181.0   150.1   148.5     1.6
 SINGLE 153  : 34068 M-TOWN 5 - 34528 M-TOWN Y CKT: 1   269.7   267.3   181.0   181.0   150.1   148.5     1.6
 SINGLE 147  : 34066 M-TOWN 7 - 34528 M-TOWN Y CKT: 1   269.7   267.3   181.0   181.0   150.1   148.5     1.6
 SINGLE 2707 : 34010 HAYWARD5 - 61984 AUSTIN 5 CKT: 1   269.6   267.0   181.0   181.0   150.0   148.5     1.5
 SINGLE 145  : 34066 M-TOWN 7 - 34085 BLRSTWN7 CKT: 1   269.7   267.2   181.0   181.0   150.0   148.5     1.5
 SINGLE 35   : 34010 HAYWARD5 - 34015 LIME CK5 CKT: 1   269.5   267.0   181.0   181.0   150.0   148.4     1.6
 SINGLE 300  : 34185 POWESHK5 - 34191 REASNOR5 CKT: 1   269.2   266.7   181.0   181.0   149.8   148.2     1.6
 SINGLE 115  : 34051 TOLEDO 7 - 34083 BL.PLN.7 CKT: 1   269.3   266.8   181.0   181.0   149.8   148.2     1.6
 SINGLE 2730 : 34036 ROCK CK3 - 36382 QUAD ;   CKT: 1   268.9   266.3   181.0   181.0   149.7   148.2     1.5
 SINGLE 21   : 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1   269.0   266.3   181.0   181.0   149.7   148.0     1.7
 SINGLE 175  : 34085 BLRSTWN7 - 34099 PRAR CK7 CKT: 1   268.9   266.4   181.0   181.0   149.6   148.0     1.6
 SINGLE 1275 : 60265 LOON TP7 - 60830 EASTWD18 CKT: P   268.8   266.3   181.0   181.0   149.6   148.0     1.6
 SINGLE 32   : 34009 WINBAGO5 - 61932 RUTLAND5 CKT: 1   268.8   266.3   181.0   181.0   149.6   148.1     1.5
 SINGLE 1696 : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1   268.7   266.2   181.0   181.0   149.5   148.0     1.5
 SINGLE 265  : 34157 TRAER  8 - 34532 TRAER  Y CKT: 1   268.7   266.1   181.0   181.0   149.5   147.9     1.6
 SINGLE 120  : 34054 GR JCT 5 - 34058 PERRY  5 CKT: 1   268.6   266.1   181.0   181.0   149.5   148.0     1.5
 SINGLE 164  : 34079 TRAER  5 - 34532 TRAER  Y CKT: 1   268.7   266.1   181.0   181.0   149.5   147.9     1.6
 SINGLE 34   : 34010 HAYWARD5 - 34014 ADAMS  5 CKT: 1   268.5   265.9   181.0   181.0   149.4   147.8     1.6
 SINGLE 2744 : 34054 GR JCT 5 - 63771 DRAGER 5 CKT: 1   268.3   265.8   181.0   181.0   149.4   147.9     1.5
 SINGLE 28   : 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1   268.4   266.0   181.0   181.0   149.4   147.8     1.6
 SINGLE 2733 : 34042 BVR CH65 - 34039 BVRCH52G CKT: 1   268.2   265.8   181.0   181.0   149.3   147.8     1.5
 SINGLE 552  : 34395 EMERY S8 - 34403 CL LAKT8 CKT: 1   268.2   265.7   181.0   181.0   149.3   147.7     1.6
 SINGLE 172  : 34083 BL.PLN.7 - 34095 STON PT7 CKT: 1   268.4   265.8   181.0   181.0   149.3   147.7     1.6
 SINGLE 117  : 34052 AMES   7 - 34076 BNE JCT7 CKT: 1   268.2   265.7   181.0   181.0   149.2   147.7     1.5
 SINGLE 526  : 34371 RICE   8 - 34415 CRESCO 8 CKT: 1   268.1   265.6   181.0   181.0   149.2   147.6     1.6
 SINGLE 292  : 34182 WAPELLO5 - 34183 JEFF   5 CKT: 1   268.2   265.7   181.0   181.0   149.2   147.7     1.5
 SINGLE 1120 : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C   268.2   265.7   181.0   181.0   149.2   147.7     1.5
 SINGLE 1121 : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1   268.2   265.7   181.0   181.0   149.2   147.7     1.5
 SINGLE 952  : 60107 W FARIB7 - 60265 LOON TP7 CKT: C   268.2   265.6   181.0   181.0   149.2   147.7     1.5
 SINGLE 1365 : 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C   268.1   265.6   181.0   181.0   149.2   147.6     1.6
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SINGLE 955  : 60107 W FARIB7 - 61952 S FARIB5 CKT: 1   268.2   265.7   181.0   181.0   149.2   147.7     1.5
SINGLE 1697 : 61952 S FARIB5 - 61964 OWATNNA5 CKT: 1   268.2   265.7   181.0   181.0   149.2   147.7     1.5
SINGLE 2762 : 34075 ELDORA 7 - 34158 ELDORA 9 CKT: 1   268.5   .....   181.0   .....   149.2   .....   *NEW*
SINGLE 1069 : 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C   268.1   265.6   181.0   181.0   149.1   147.6     1.5
BASE CASE   : **       BASE CASE      **              267.1   264.6   181.0   181.0   148.6   147.0     1.6
SINGLE 2759 : 34066 M-TOWN 7 - 34088 M-TOWN3G CKT: 1   265.9   263.4   181.0   181.0   148.0   146.5     1.5
SINGLE 178  : 34091 ARNOLD 5 - 34105 HIAWATA5 CKT: 1   266.1   .....   181.0   .....   148.0   .....   *NEW*
SINGLE 2595 : 67101 ANTELOP3 - 67120 HURON  3 CKT: 1   265.9   263.4   181.0   181.0   147.9   146.3     1.6
SINGLE 2613 : 67120 HURON  3 - 67204 BRDLNDTY CKT: 1   265.9   263.4   181.0   181.0   147.9   146.3     1.6
SINGLE 2635 : 67204 BRDLNDTY - 67205 BRDLAND4 CKT: 1   265.9   263.4   181.0   181.0   147.9   146.3     1.6
SINGLE 197  : 34107 BEVERLY5 - 34111 FAIRFAX5 CKT: 1   265.9   263.4   181.0   181.0   147.9   146.4     1.5
SINGLE 118  : 34053 MT VERN5 - 34109 BERTRAM5 CKT: 1   265.9   263.4   181.0   181.0   147.9   146.4     1.5
SINGLE 2482 : 66514 HURON  4 - 67205 BRDLAND4 CKT: 1   265.9   263.4   181.0   181.0   147.9   146.3     1.6
SINGLE 2515 : 66562 EAGLE  4 - 66578 PAHOJA 4 CKT: 1   265.9   263.4   181.0   181.0   147.9   146.3     1.6
SINGLE 2706 : 34008 FOX LK 5 - 34011 FOXLK53G CKT: 1   265.9   263.4   181.0   181.0   147.8   146.2     1.6
SINGLE 2462 : 66507 FTTHOMP4 - 66541 BIGBND24 CKT: 1   265.9   263.4   181.0   181.0   147.8   146.3     1.5
SINGLE 2494 : 66523 SIOUXFL4 - 66578 PAHOJA 4 CKT: 1   265.9   263.3   181.0   181.0   147.8   146.3     1.5
SINGLE 2700 :  6001 YANKEE 7 -  6003 G176     CKT: 1   265.8   263.3   181.0   181.0   147.8   146.2     1.6
SINGLE 2724 : 34021 LANSINGW - 69523 GENOA  5 CKT: 1   265.5   263.0   181.0   181.0   147.7   146.1     1.6
SINGLE 24   : 34007 LAKEFLD5 - 34137 TRIBOJI5 CKT: 1   265.6   262.5   181.0   181.0   147.6   145.7     1.9
SINGLE 1292 : 60287 NOBLES 7 - 60369 FENTON 7 CKT: C   265.4   262.9   181.0   181.0   147.5   146.0     1.5
SINGLE 179  : 34091 ARNOLD 5 - 34111 FAIRFAX5 CKT: 1   265.3   262.8   181.0   181.0   147.5   146.0     1.5
SINGLE 2451 : 66506 FTTHOMP3 - 67105 LELANDO3 CKT: 1   265.3   262.8   181.0   181.0   147.5   146.0     1.5
SINGLE 2722 : 34020 HAZL S 5 - 64269 WASHBRN5 CKT: 1   264.8   262.3   181.0   181.0   147.4   146.0     1.4
SINGLE 57   : 34019 HAZLTON5 - 34020 HAZL S 5 CKT: 1   264.7   262.2   181.0   181.0   147.2   145.7     1.5
SINGLE 2702 :  6450 PRIMGHAR -  6460 GI0304F1 CKT: 1   265.0   .....   181.0   .....   147.2   .....   *NEW*
SINGLE 2461 : 66507 FTTHOMP4 - 66540 BIGBND14 CKT: 1   264.6   262.0   181.0   181.0   147.0   145.5     1.5
SINGLE 2699 :  6001 YANKEE 7 -  6002 YANKGEN  CKT: 1   264.5   262.0   181.0   181.0   146.9   145.4     1.5
SINGLE 2720 : 34017 CGORDO_5 - 34414 CGORDO1G CKT: 1   264.3   261.8   181.0   181.0   146.9   145.4     1.5
SINGLE 247  : 34137 TRIBOJI5 - 66563 SPENCER5 CKT: 1   264.3   261.2   181.0   181.0   146.7   144.9     1.8
SINGLE 2703 : 34006 LAKEFLD3 -  3400 G164     CKT: 1   264.1   261.5   181.0   181.0   146.7   145.1     1.6
SINGLE 2704 : 34006 LAKEFLD3 - 63875 RAUN   3 CKT: 1   263.7   261.2   181.0   181.0   146.7   145.1     1.6
SINGLE 2705 : 34007 LAKEFLD5 -  6006 G262     CKT: 1   263.9   261.3   181.0   181.0   146.5   145.0     1.5
SINGLE 941  : 60015 ANSON CG - 61475 ANS TR2Y CKT: 2   263.5   261.0   181.0   181.0   146.4   144.8     1.6
SINGLE 940  : 60015 ANSON CG - 60129 SPLT RK7 CKT: 1   263.5   261.0   181.0   181.0   146.4   144.8     1.6
SINGLE 176  : 34087 DYSART 5 - 34089 VINTON 5 CKT: 1   262.6   260.3   181.0   181.0   146.2   144.7     1.5
SINGLE 1009 : 60131 SPLTRTB3 - 66564 SIOUXCY3 CKT: 1   262.6   260.1   181.0   181.0   146.0   144.4     1.6
SINGLE 1001 : 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1   262.8   260.2   181.0   181.0   146.0   144.4     1.6
SINGLE 1002 : 60126 SPLT RK3 - 60131 SPLTRTB3 CKT: 1   262.6   260.1   181.0   181.0   146.0   144.4     1.6
SINGLE 1008 : 60130 SPLTRTA3 - 66537 WHITE  3 CKT: 1   262.8   260.2   181.0   181.0   146.0   144.4     1.6
SINGLE 71   : 34028 LORE   5 - 34129 LIBERTY5 CKT: 1   262.7   260.2   181.0   181.0   145.9   144.4     1.5
SINGLE 177  : 34089 VINTON 5 - 34091 ARNOLD 5 CKT: 1   262.1   259.8   181.0   181.0   145.9   144.4     1.5
SINGLE 234  : 34129 LIBERTY5 - 34135 DUNDEE 5 CKT: 1   260.6   258.1   181.0   181.0   144.7   143.2     1.5
SINGLE 2715 : 34016 EMERY  5 - 34910 EMERYGT1 CKT: 1   258.3   255.8   181.0   181.0   143.3   141.8     1.5
SINGLE 2716 : 34016 EMERY  5 - 34911 EMERYGT2 CKT: 1   258.3   255.8   181.0   181.0   143.3   141.8     1.5
SINGLE 2721 : 34019 HAZLTON5 - 64250 BLKHAWK5 CKT: 1   256.2   254.1   181.0   181.0   143.0   141.6     1.4
SINGLE 60   : 34020 HAZL S 5 - 34135 DUNDEE 5 CKT: 1   255.4   252.9   181.0   181.0   141.7   140.2     1.5
SINGLE 2718 : 34016 EMERY  5 - 63774 SHEFFLD5 CKT: 1   250.1   247.6   181.0   181.0   139.8   138.2     1.6
SINGLE 53   : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1   .....   246.2   .....   181.0   .....   137.2  *ELIM*
SINGLE 990  : 60122 LAWRENC7 - 60834 LAWRENC8 CKT: 1   .....   265.6   .....   181.0   .....   147.7  *ELIM*
SINGLE 1124 : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1   .....   265.6   .....   181.0   .....   147.6  *ELIM*
*** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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 82) 64244 SAC GEN  - 64245 CLIPRG19 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 2529 : 66580 SPENCR 8 - 66581 SPENCER8 CKT: 1   172.7   172.7   100.0   100.0   172.7   172.7     0.0
SINGLE 3559 : 66581 SPENCER8 - 63710 WISDOM 8 CKT: 1   172.7   172.2   100.0   100.0   172.7   172.2     0.5
SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   171.8   170.9   100.0   100.0   171.8   170.9     0.9
SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1   170.5   169.7   100.0   100.0   170.5   169.7     0.8
SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   169.7   168.9   100.0   100.0   169.7   168.9     0.8
SINGLE 2518 : 66563 SPENCER5 - 66580 SPENCR 8 CKT: 1   169.3   168.4   100.0   100.0   169.3   168.4     0.9
SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   169.1   168.5   100.0   100.0   169.1   168.5     0.6
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SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1   169.0   168.4   100.0   100.0   169.0   168.4     0.6
SINGLE 2894 : 60102 ADAMS  3 - 63032 PL VLLY3 CKT: 1   168.8   168.1   100.0   100.0   168.8   168.1     0.7
SINGLE 2704 : 34006 LAKEFLD3 - 63875 RAUN   3 CKT: 1   168.7   168.0   100.0   100.0   168.7   168.0     0.7
SINGLE 1009 : 60131 SPLTRTB3 - 66564 SIOUXCY3 CKT: 1   168.5   167.7   100.0   100.0   168.5   167.7     0.8
825         : ** MULTIPLE CONTINGENCY **               168.5   167.8   100.0   100.0   168.5   167.8     0.7
            : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
            : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
            : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1
SINGLE 1002 : 60126 SPLT RK3 - 60131 SPLTRTB3 CKT: 1   168.4   167.6   100.0   100.0   168.4   167.6     0.8
SINGLE 2519 : 66563 SPENCER5 - 66580 SPENCR 8 CKT: 2   168.3   167.5   100.0   100.0   168.3   167.5     0.8
SINGLE 32   : 34009 WINBAGO5 - 61932 RUTLAND5 CKT: 1   168.3   167.7   100.0   100.0   168.3   167.7     0.6
SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1   168.0   167.4   100.0   100.0   168.0   167.4     0.6
SINGLE 3521 : 66506 FTTHOMP3 - 66571 GR ISLD3 CKT: 1   168.0   167.8   100.0   100.0   168.0   167.8     0.2
SINGLE 2520 : 66565 SIOUXCY4 - 66567 DENISON4 CKT: 1   168.0   167.4   100.0   100.0   168.0   167.4     0.6
050    1    : ** MULTIPLE CONTINGENCY **               167.7   167.0   100.0   100.0   167.7   167.0     0.7
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
            : 39901 COC DPC  - 38342 COC 69   CKT: 1
            : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
SINGLE 55   : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1   167.7   167.2   100.0   100.0   167.7   167.2     0.5
SINGLE 28   : 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1   167.6   167.1   100.0   100.0   167.6   167.1     0.5
PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **               167.6   167.1   100.0   100.0   167.6   167.1     0.5
            : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
            : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
SINGLE 2820 : 34189 OTTUMWA5 - 34146 OTTUMW1G CKT: 1   167.6   167.1   100.0   100.0   167.6   167.1     0.5
SINGLE 52   : 34017 CGORDO_5 - 34139 HANCOCK5 CKT: 1   167.6   167.1   100.0   100.0   167.6   167.1     0.5
050    3    : ** MULTIPLE CONTINGENCY **               167.6   166.8   100.0   100.0   167.6   166.8     0.8
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 39901 COC DPC  - 38342 COC 69   CKT: 1
            : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
SINGLE 3552 : 66564 SIOUXCY3 - 63875 RAUN   3 CKT: 1   167.5   167.1   100.0   100.0   167.5   167.1     0.4
SINGLE 2753 : 34061 BNE JCT5 - 64067 BONDRNT5 CKT: 1   167.5   167.1   100.0   100.0   167.5   167.1     0.4
SINGLE 33   : 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1   167.4   166.9   100.0   100.0   167.4   166.9     0.5
SINGLE 3551 : 66563 SPENCER5 - 63906 BVISTA 5 CKT: 1   167.4   .....   100.0   .....   167.4   .....   *NEW*
SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1   167.2   166.6   100.0   100.0   167.2   166.6     0.6
ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **               167.2   166.8   100.0   100.0   167.2   166.8     0.4
            : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
BASE CASE   : **       BASE CASE      **               166.3   165.9   100.0   100.0   166.3   165.9     0.4
SINGLE 2958 : 60240 RIVRSID7 - 60008 RIVRS78G CKT: 1   165.3   .....   100.0   .....   165.3   .....   *NEW*
SINGLE 940  : 60015 ANSON CG - 60129 SPLT RK7 CKT: 1   165.2   .....   100.0   .....   165.2   .....   *NEW*
SINGLE 941  : 60015 ANSON CG - 61475 ANS TR2Y CKT: 2   165.2   .....   100.0   .....   165.2   .....   *NEW*
SINGLE 3593 : 67106 LELANDO4 - 67110 LELAN41G CKT: 1   165.2   .....   100.0   .....   165.2   .....   *NEW*
SINGLE 3573 : 66751 CENTER 4 - 66749 CENTER1G CKT: 1   165.1   164.9   100.0   100.0   165.1   164.9     0.2
SINGLE 20   : 34006 LAKEFLD3 - 60286 NOBLES 3 CKT: C   165.1   .....   100.0   .....   165.1   .....   *NEW*
SINGLE 3005 : 60331 LKFLDXL3 - 63092 LGS  34Y CKT: 1   165.0   164.7   100.0   100.0   165.0   164.7     0.3
SINGLE 3006 : 60331 LKFLDXL3 - 63093 LGS  56Y CKT: 1   165.0   164.7   100.0   100.0   165.0   164.7     0.3
SINGLE 3004 : 60331 LKFLDXL3 - 63091 LGS  12Y CKT: 1   165.0   164.7   100.0   100.0   165.0   164.7     0.3
SINGLE 3596 : 67131 LARAMIE3 - 67118 LARAM31G CKT: 1   165.0   164.8   100.0   100.0   165.0   164.8     0.2
SINGLE 2699 :  6001 YANKEE 7 -  6002 YANKGEN  CKT: 1   164.9   164.7   100.0   100.0   164.9   164.7     0.2
SINGLE 3540 : 66537 WHITE  3 -  6653 GI0108   CKT: 1   164.9   164.7   100.0   100.0   164.9   164.7     0.2
SINGLE 3020 : 60369 FENTON 7 -  6036 G162     CKT: 1   164.8   164.6   100.0   100.0   164.8   164.6     0.2
SINGLE 2703 : 34006 LAKEFLD3 -  3400 G164     CKT: 1   164.7   164.5   100.0   100.0   164.7   164.5     0.2
SINGLE 244  : 34136 TRIBOJI8 - 34906 FLYCLD 8 CKT: 1   164.7   164.6   100.0   100.0   164.7   164.6     0.1
SINGLE 1008 : 60130 SPLTRTA3 - 66537 WHITE  3 CKT: 1   164.7   164.5   100.0   100.0   164.7   164.5     0.2
SINGLE 2754 : 34061 BNE JCT5 - 64205 FT.DODG5 CKT: 1   164.7   164.4   100.0   100.0   164.7   164.4     0.3
SINGLE 1001 : 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1   164.7   164.6   100.0   100.0   164.7   164.6     0.1
SINGLE 2973 : 60287 NOBLES 7 -  6430 G287     CKT: 1   164.7   164.5   100.0   100.0   164.7   164.5     0.2
SINGLE 2901 : 60108 WILMART3 -  8001 G261-ST  CKT: 1   164.6   164.4   100.0   100.0   164.6   164.4     0.2
SINGLE 2705 : 34007 LAKEFLD5 -  6006 G262     CKT: 1   164.5   164.3   100.0   100.0   164.5   164.3     0.2
SINGLE 2934 : 60186 AS KING3 - 60006 KING 31G CKT: 1   164.4   164.2   100.0   100.0   164.4   164.2     0.2
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SINGLE 2805 : 34137 TRIBOJI5 - 63897 G298SYS CKT: 1	164.4	164.2	100.0	100.0	164.4	164.2	0.2
SINGLE 2897 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1	164.3	164.1	100.0	100.0	164.3	164.1	0.2
SINGLE 3622 : 67316 COYOTE 3 - 67315 COYOTE1G CKT: 1	164.3	164.2	100.0	100.0	164.3	164.2	0.1
SINGLE 2898 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1	164.3	164.1	100.0	100.0	164.3	164.1	0.2
SINGLE 3589 : 67101 ANTELOP3 - 67103 ANTEL31G CKT: 1	164.3	164.1	100.0	100.0	164.3	164.1	0.2
SINGLE 3590 : 67101 ANTELOP3 - 67107 ANTEL32G CKT: 1	164.3	164.1	100.0	100.0	164.3	164.1	0.2
SINGLE 3592 : 67105 LELANDO3 - 67111 LELAN32G CKT: 1	164.2	164.1	100.0	100.0	164.2	164.1	0.1
SINGLE 2917 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1	164.0	163.8	100.0	100.0	164.0	163.8	0.2
SINGLE 2923 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1	164.0	163.8	100.0	100.0	164.0	163.8	0.2
SINGLE 3449 : 63314 BIGSTON4 - 63315 BIGSTN1G CKT: 1	163.9	163.8	100.0	100.0	163.9	163.8	0.1
SINGLE 2922 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1	163.9	163.8	100.0	100.0	163.9	163.8	0.1
SINGLE 3398 : 63041 COAL CR4 - 63000 COAL 41G CKT: 1	163.7	163.7	100.0	100.0	163.7	163.7	0.0
SINGLE 3399 : 63041 COAL CR4 - 63001 COAL 42G CKT: 1	163.7	163.6	100.0	100.0	163.7	163.6	0.1
SINGLE 24 : 34007 LAKEFLD5 - 34137 TRIBOJI5 CKT: 1	163.1	163.1	100.0	100.0	163.1	163.1	0.0
SINGLE 2924 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1	163.0	163.0	100.0	100.0	163.0	163.0	0.0
SINGLE 3548 : 66563 SPENCER5 - 63713 OSGOOD 5 CKT: 1	.....	164.8	.....	100.0	.....	164.8	*ELIM*

83) 64250 BLKHAWK5 - 64256 UNIONTP5 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 2719 : 34016 EMERY 5 - 64252 FLOYD 5 CKT: 1	200.9	198.9	181.0	181.0	120.1	118.5	1.6
SINGLE 56 : 34018 HAZLTON3 - 60102 ADAMS 3 CKT: 1	191.8	189.9	181.0	181.0	116.0	114.4	1.6
SINGLE 156 : 34072 FRNKLIN7 - 34571 FRNKLN_Y CKT: 1	175.3	173.3	181.0	181.0	102.8	101.4	1.4
SINGLE 155 : 34072 FRNKLIN7 - 34077 IA FALS7 CKT: 1	175.3	173.3	181.0	181.0	102.8	101.4	1.4
SINGLE 2860 : 34571 FRNKLN_Y - 64239 FRANKLN5 CKT: 1	175.3	173.3	181.0	181.0	102.8	101.4	1.4
SINGLE 959 : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1	173.7	171.5	181.0	181.0	101.4	100.0	1.4
SINGLE 2894 : 60102 ADAMS 3 - 63032 PL VLLY3 CKT: 1	171.0	169.1	181.0	181.0	100.5	99.1	1.4
SINGLE 46 : 34015 LIME CK5 - 34016 EMERY 5 CKT: 1	170.0	167.9	181.0	181.0	100.1	98.7	1.4
SINGLE 958 : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1	171.3	169.2	181.0	181.0	100.1	98.6	1.5
SINGLE 163 : 34079 TRAER 5 - 34087 DYSART 5 CKT: 1	170.2	168.2	181.0	181.0	100.0	98.6	1.4
SINGLE 160 : 34075 ELDORA 7 - 34077 IA FALS7 CKT: 1	170.7	168.6	181.0	181.0	99.9	98.4	1.5
SINGLE 161 : 34075 ELDORA 7 - 34169 WELSBGT7 CKT: 1	168.9	166.8	181.0	181.0	98.7	97.3	1.4
SINGLE 151 : 34068 M-TOWN 5 - 34079 TRAER 5 CKT: 1	166.5	164.5	181.0	181.0	97.8	96.4	1.4
SINGLE 2754 : 34061 BNE JCT5 - 64205 FT.DODG5 CKT: 1	166.7	164.7	181.0	181.0	97.4	96.0	1.4
SINGLE 42 : 34014 ADAMS 5 - 34015 LIME CK5 CKT: 1	165.2	163.2	181.0	181.0	96.7	95.3	1.4
SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1	163.5	161.9	181.0	181.0	96.5	95.3	1.2
SINGLE 146 : 34066 M-TOWN 7 - 34169 WELSBGT7 CKT: 1	164.7	162.7	181.0	181.0	96.3	95.0	1.3
SINGLE 62 : 34021 LANSINGW - 34022 LANSING5 CKT: 1	163.4	161.5	181.0	181.0	95.6	94.3	1.3
SINGLE 2723 : 34021 LANSINGW - 34024 LANS5 4G CKT: 1	163.2	161.2	181.0	181.0	95.2	93.8	1.4
SINGLE 2713 : 34014 ADAMS 5 - 69526 BVR CRK5 CKT: 1	162.5	160.6	181.0	181.0	95.0	93.6	1.4
SINGLE 114 : 34051 TOLEDO 7 - 34066 M-TOWN 7 CKT: 1	162.5	160.6	181.0	181.0	94.8	93.5	1.3
SINGLE 53 : 34018 HAZLTON3 - 34019 HAZLTON5 CKT: 1	161.8	159.5	181.0	181.0	94.7	93.2	1.5
SINGLE 173 : 34084 PARNEL 5 - 34185 POWESHK5 CKT: 1	162.1	160.2	181.0	181.0	94.6	93.2	1.4
SINGLE 2707 : 34010 HAYWARD5 - 61984 AUSTIN 5 CKT: 1	162.3	160.2	181.0	181.0	94.6	93.2	1.4
SINGLE 145 : 34066 M-TOWN 7 - 34085 BLRSTWN7 CKT: 1	162.1	160.1	181.0	181.0	94.5	93.2	1.3
SINGLE 35 : 34010 HAYWARD5 - 34015 LIME CK5 CKT: 1	161.9	159.9	181.0	181.0	94.5	93.1	1.4
SINGLE 2727 : 34022 LANSING5 - 69531 POSTVIL5 CKT: 1	161.3	159.4	181.0	181.0	94.5	93.2	1.3
SINGLE 147 : 34066 M-TOWN 7 - 34528 M-TOWN Y CKT: 1	161.9	160.0	181.0	181.0	94.4	93.1	1.3
SINGLE 115 : 34051 TOLEDO 7 - 34083 BL.PLN.7 CKT: 1	161.9	159.9	181.0	181.0	94.4	93.0	1.4
SINGLE 153 : 34068 M-TOWN 5 - 34528 M-TOWN Y CKT: 1	161.9	160.0	181.0	181.0	94.4	93.1	1.3
SINGLE 32 : 34009 WINBAGO5 - 61932 RUTLAND5 CKT: 1	162.4	160.4	181.0	181.0	94.4	93.1	1.3
SINGLE 21 : 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1	162.1	159.8	181.0	181.0	94.4	92.9	1.5
SINGLE 2916 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1	162.2	160.2	181.0	181.0	94.4	93.0	1.4
SINGLE 2769 : 34084 PARNEL 5 - 64351 HILLS 5 CKT: 1	161.8	159.8	181.0	181.0	94.3	92.9	1.4
SINGLE 300 : 34185 POWESHK5 - 34191 REASNOR5 CKT: 1	161.8	159.8	181.0	181.0	94.3	93.0	1.3
SINGLE 3393 : 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1	162.1	160.0	181.0	181.0	94.3	92.9	1.4
SINGLE 1275 : 60265 LOON TP7 - 60830 EASTWD18 CKT: P	161.9	159.8	181.0	181.0	94.2	92.9	1.3
SINGLE 1696 : 61948 BYRON 5 - 61964 OWATNNA5 CKT: 1	161.9	159.8	181.0	181.0	94.2	92.9	1.3
SINGLE 175 : 34085 BLRSTWN7 - 34099 PRAR CK7 CKT: 1	161.5	159.6	181.0	181.0	94.2	92.8	1.4
SINGLE 2808 : 34157 TRAER 8 - 63734 WELSBRG8 CKT: 1	161.8	159.7	181.0	181.0	94.2	92.8	1.4
SINGLE 2821 : 34191 REASNOR5 - 64062 DMOINES5 CKT: 1	161.6	159.5	181.0	181.0	94.1	92.8	1.3
SINGLE 120 : 34054 GR JCT 5 - 34058 PERRY 5 CKT: 1	161.5	159.4	181.0	181.0	94.1	92.7	1.4
SINGLE 265 : 34157 TRAER 8 - 34532 TRAER Y CKT: 1	161.6	159.5	181.0	181.0	94.1	92.7	1.4

SINGLE 164	: 34079 TRAER 5 - 34532 TRAER Y CKT: 1	161.6	159.5	181.0	181.0	94.1	92.7	1.4
SINGLE 2993	: 60309 MRSHLND5 - 69543 ALMA 5 CKT: 1	161.4	159.4	181.0	181.0	94.1	92.7	1.4
SINGLE 28	: 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1	161.9	159.9	181.0	181.0	94.1	92.8	1.3
SINGLE 2744	: 34054 GR JCT 5 - 63771 DRAGER 5 CKT: 1	161.3	159.3	181.0	181.0	94.0	92.6	1.4
SINGLE 34	: 34010 HAYWARD5 - 34014 ADAMS 5 CKT: 1	161.4	159.3	181.0	181.0	94.0	92.6	1.4
SINGLE 1697	: 61952 S FARIB5 - 61964 OWATNNA5 CKT: 1	161.4	159.3	181.0	181.0	93.9	92.5	1.4
SINGLE 1069	: 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C	161.3	159.2	181.0	181.0	93.9	92.5	1.4
SINGLE 955	: 60107 W FARIB7 - 61952 S FARIB5 CKT: 1	161.4	159.3	181.0	181.0	93.9	92.5	1.4
SINGLE 1120	: 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C	161.4	159.3	181.0	181.0	93.9	92.6	1.3
SINGLE 1121	: 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1	161.4	159.3	181.0	181.0	93.9	92.6	1.3
SINGLE 49	: 34016 EMERY 5 - 34017 CGORDO_5 CKT: 1	161.5	159.4	181.0	181.0	93.9	92.6	1.3
SINGLE 1365	: 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C	161.3	159.2	181.0	181.0	93.9	92.5	1.4
SINGLE 952	: 60107 W FARIB7 - 60265 LOON TP7 CKT: C	161.2	.....	181.0	.....	93.9	.....	*NEW*
SINGLE 33	: 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1	161.5	159.5	181.0	181.0	93.8	92.5	1.3
SINGLE 29	: 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1	161.5	159.4	181.0	181.0	93.7	92.4	1.3
BASE CASE	: ** BASE CASE **	160.2	158.2	181.0	181.0	93.2	91.9	1.3
SINGLE 118	: 34053 MT VERN5 - 34109 BERTRAM5 CKT: 1	159.1	157.0	181.0	181.0	92.6	91.3	1.3
SINGLE 2494	: 66523 SIOUXFL4 - 66578 PAHOJA 4 CKT: 1	159.1	157.1	181.0	181.0	92.6	91.2	1.4
SINGLE 2515	: 66562 EAGLE 4 - 66578 PAHOJA 4 CKT: 1	159.2	157.1	181.0	181.0	92.6	91.2	1.4
SINGLE 3525	: 66509 FTRANDL4 - 66549 FTRDL78G CKT: 1	159.2	157.1	181.0	181.0	92.5	91.1	1.4
SINGLE 1292	: 60287 NOBLES 7 - 60369 FENTON 7 CKT: C	158.9	156.9	181.0	181.0	92.4	91.0	1.4
SINGLE 179	: 34091 ARNOLD 5 - 34111 FAIRFAX5 CKT: 1	158.9	156.9	181.0	181.0	92.4	91.0	1.4
SINGLE 3400	: 63049 STANTON4 - 63002 STANT41G CKT: 1	159.1	157.1	181.0	181.0	92.4	91.0	1.4
SINGLE 3521	: 66506 FTTHOMP3 - 66571 GR ISLD3 CKT: 1	158.6	156.7	181.0	181.0	92.4	91.1	1.3
SINGLE 2724	: 34021 LANSINGW - 69523 GENOA 5 CKT: 1	158.7	156.7	181.0	181.0	92.4	91.0	1.4
SINGLE 3331	: 61475 ANS TR2Y - 60021 ANS 72G CKT: 2	159.0	156.9	181.0	181.0	92.3	91.0	1.3
SINGLE 3332	: 61475 ANS TR2Y - 60022 ANS 73G CKT: 2	159.0	156.9	181.0	181.0	92.3	91.0	1.3
SINGLE 180	: 34091 ARNOLD 5 - 34534 ARNOLD Y CKT: 1	157.2	155.2	181.0	181.0	92.3	91.0	1.3
SINGLE 181	: 34093 ARNOLD 3 - 34534 ARNOLD Y CKT: 1	157.2	155.2	181.0	181.0	92.3	91.0	1.3
SINGLE 2451	: 66506 FTTHOMP3 - 67105 LELANDO3 CKT: 1	158.7	156.6	181.0	181.0	92.3	90.9	1.4
SINGLE 24	: 34007 LAKEFLD5 - 34137 TRIBOJI5 CKT: 1	158.8	156.3	181.0	181.0	92.3	90.7	1.6
SINGLE 2722	: 34020 HAZL S 5 - 64269 WASHBRN5 CKT: 1	157.0	155.1	181.0	181.0	92.2	90.8	1.4
SINGLE 2702	: 6450 PRIMGHAR - 6460 GI0304F1 CKT: 1	158.6	.....	181.0	.....	92.1	.....	*NEW*
SINGLE 2785	: 34105 HIAWATA5 - 34112 HIAWATA9 CKT: 1	158.4	156.4	181.0	181.0	92.1	90.7	1.4
SINGLE 2805	: 34137 TRIBOJI5 - 63897 G298SYS CKT: 1	158.4	156.3	181.0	181.0	92.0	90.6	1.4
SINGLE 3004	: 60331 LKFLDXL3 - 63091 LGS 12Y CKT: 1	158.7	156.6	181.0	181.0	92.0	90.7	1.3
SINGLE 3005	: 60331 LKFLDXL3 - 63092 LGS 34Y CKT: 1	158.7	156.6	181.0	181.0	92.0	90.7	1.3
SINGLE 3006	: 60331 LKFLDXL3 - 63093 LGS 56Y CKT: 1	158.7	156.6	181.0	181.0	92.0	90.7	1.3
SINGLE 2461	: 66507 FTTHOMP4 - 66540 BIGBND14 CKT: 1	158.4	156.4	181.0	181.0	92.0	90.6	1.4
SINGLE 2699	: 6001 YANKEE 7 - 6002 YANKGEN CKT: 1	158.4	156.4	181.0	181.0	91.9	90.6	1.3
SINGLE 2720	: 34017 CGORDO_5 - 34414 CGORDO1G CKT: 1	158.3	156.3	181.0	181.0	91.9	90.5	1.4
SINGLE 3020	: 60369 FENTON 7 - 6036 G162 CKT: 1	158.3	156.2	181.0	181.0	91.8	90.5	1.3
SINGLE 2973	: 60287 NOBLES 7 - 6430 G287 CKT: 1	158.1	156.0	181.0	181.0	91.7	90.3	1.4
SINGLE 2703	: 34006 LAKEFLD3 - 3400 G164 CKT: 1	158.2	156.1	181.0	181.0	91.7	90.3	1.4
SINGLE 247	: 34137 TRIBOJI5 - 66563 SPENCER5 CKT: 1	157.6	.....	181.0	.....	91.6	.....	*NEW*
SINGLE 2705	: 34007 LAKEFLD5 - 6006 G262 CKT: 1	158.0	155.9	181.0	181.0	91.6	90.2	1.4
SINGLE 941	: 60015 ANSON CG - 61475 ANS TR2Y CKT: 2	157.7	155.6	181.0	181.0	91.4	90.1	1.3
SINGLE 2704	: 34006 LAKEFLD3 - 63875 RAUN 3 CKT: 1	156.9	155.0	181.0	181.0	91.4	90.0	1.4
SINGLE 940	: 60015 ANSON CG - 60129 SPLT RK7 CKT: 1	157.7	155.6	181.0	181.0	91.4	90.1	1.3
SINGLE 176	: 34087 DYSART 5 - 34089 VINTON 5 CKT: 1	155.6	.....	181.0	.....	91.1	.....	*NEW*
SINGLE 71	: 34028 LORE 5 - 34129 LIBERTY5 CKT: 1	157.1	.....	181.0	.....	91.0	.....	*NEW*
SINGLE 57	: 34019 HAZLTON5 - 34020 HAZL S 5 CKT: 1	155.8	.....	181.0	.....	90.9	.....	*NEW*
SINGLE 1001	: 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1	156.6	.....	181.0	.....	90.9	.....	*NEW*
SINGLE 1008	: 60130 SPLTRTA3 - 66537 WHITE 3 CKT: 1	156.6	.....	181.0	.....	90.9	.....	*NEW*
SINGLE 1002	: 60126 SPLT RK3 - 60131 SPLTRTB3 CKT: 1	156.2	.....	181.0	.....	90.8	.....	*NEW*
SINGLE 177	: 34089 VINTON 5 - 34091 ARNOLD 5 CKT: 1	155.2	.....	181.0	.....	90.8	.....	*NEW*
SINGLE 1009	: 60131 SPLTRTB3 - 66564 SIOUXCY3 CKT: 1	156.2	.....	181.0	.....	90.8	.....	*NEW*
SINGLE 3360	: 61950 BYRON 3 - 63032 PL VLLY3 CKT: 1	.....	169.3	.....	181.0	.....	99.2	*ELIM*
SINGLE 3525	: 66510 FTRANDL7 - 66546 FTRDL12G CKT: 1	.....	157.1	.....	181.0	.....	91.2	*ELIM*
SINGLE 3531	: 66519 OAHE 4 - 66556 OAHE2-3G CKT: 1	.....	156.6	.....	181.0	.....	90.8	*ELIM*
SINGLE 3538	: 66537 WHITE 3 - 6653 GI0108 CKT: 1	.....	156.2	.....	181.0	.....	90.5	*ELIM*
SINGLE 3541	: 66540 BIGBND14 - 66542 BGBND12G CKT: 1	.....	157.0	.....	181.0	.....	91.0	*ELIM*
SINGLE 3550	: 66564 SIOUXCY3 - 63875 RAUN 3 CKT: 1	.....	157.1	.....	181.0	.....	91.3	*ELIM*

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SINGLE 3571 : 66751 CENTER 4 - 66749 CENTER1G CKT: 1   .....   156.8   .....   181.0   .....    90.8  *ELIM*
SINGLE 3591 : 67106 LELANDO4 - 67110 LELAN41G CKT: 1   .....   156.8   .....   181.0   .....    90.8  *ELIM*
CNC-KOL/TER3: ** MULTIPLE CONTINGENCY **               .....   159.3   .....   181.0   .....    92.6  *ELIM*
            : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
            : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
BLL-PRI/IVH3: ** MULTIPLE CONTINGENCY **               .....   160.8   .....   181.0   .....    93.4  *ELIM*
            : 60192 BLUE LK3 - 60105 PR ISLD3 CKT: 1
            : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
ASK-CHI/KOL3: ** MULTIPLE CONTINGENCY **               .....   159.7   .....   181.0   .....    92.8  *ELIM*
            : 60186 AS KING3 - 60199 CHIS CO3 CKT: 1
            : 60186 AS KING3 - 60221 KOLMNLK3 CKT: 1
*** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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 84) 64256 UNIONTP5 - 64285 BUTLER 5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 2719 : 34016 EMERY  5 - 64252 FLOYD  5 CKT: 1   295.9   293.7   181.0   181.0   177.3   175.5     1.8
SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1   282.7   280.7   181.0   181.0   170.3   168.5     1.8
SINGLE 156  : 34072 FRNKLIN7 - 34571 FRNKLN_Y CKT: 1   266.1   263.9   181.0   181.0   155.9   154.3     1.6
SINGLE 155  : 34072 FRNKLIN7 - 34077 IA FALS7 CKT: 1   266.1   263.9   181.0   181.0   155.9   154.3     1.6
SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   261.9   259.5   181.0   181.0   153.1   151.5     1.6
SINGLE 163  : 34079 TRAER  5 - 34087 DYSART 5 CKT: 1   260.8   258.7   181.0   181.0   152.9   151.3     1.6
SINGLE 46   : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1   259.3   257.1   181.0   181.0   152.4   150.7     1.7
SINGLE 160  : 34075 ELDORA 7 - 34077 IA FALS7 CKT: 1   260.5   258.3   181.0   181.0   152.3   150.7     1.6
SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   259.7   257.4   181.0   181.0   151.7   150.1     1.6
SINGLE 161  : 34075 ELDORA 7 - 34169 WELSBGT7 CKT: 1   258.3   256.1   181.0   181.0   150.9   149.3     1.6
SINGLE 151  : 34068 M-TOWN 5 - 34079 TRAER  5 CKT: 1   256.8   254.6   181.0   181.0   150.5   148.9     1.6
SINGLE 2754 : 34061 BNE JCT5 - 64205 FT.DODG5 CKT: 1   255.9   253.7   181.0   181.0   149.4   147.8     1.6
SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   253.5   251.6   181.0   181.0   149.1   147.6     1.5
SINGLE 42   : 34014 ADAMS  5 - 34015 LIME CK5 CKT: 1   254.1   251.9   181.0   181.0   148.5   146.9     1.6
SINGLE 2772 : 34087 DYSART 5 - 64269 WASHBRN5 CKT: 1   251.1   249.0   181.0   181.0   148.3   146.8     1.5
SINGLE 146  : 34066 M-TOWN 7 - 34169 WELSBGT7 CKT: 1   253.1   250.8   181.0   181.0   148.0   146.4     1.6
SINGLE 54   : 34018 HAZLTON3 - 34020 HAZL S 5 CKT: 2   250.6   248.6   181.0   181.0   147.5   146.0     1.5
SINGLE 62   : 34021 LANSINGW - 34022 LANSING5 CKT: 1   252.3   250.2   181.0   181.0   147.4   145.8     1.6
SINGLE 2713 : 34014 ADAMS  5 - 69526 BVR CRK5 CKT: 1   251.3   249.2   181.0   181.0   146.6   145.1     1.5
SINGLE 2723 : 34021 LANSINGW - 34024 LANS5 4G CKT: 1   251.7   249.6   181.0   181.0   146.6   145.0     1.6
SINGLE 2727 : 34022 LANSING5 - 69531 POSTVIL5 CKT: 1   250.5   248.4   181.0   181.0   146.4   144.8     1.6
SINGLE 114  : 34051 TOLEDO 7 - 34066 M-TOWN 7 CKT: 1   251.3   249.1   181.0   181.0   146.4   144.8     1.6
SINGLE 53   : 34018 HAZLTON3 - 34019 HAZLTON5 CKT: 1   250.7   248.4   181.0   181.0   146.4   144.8     1.6
SINGLE 2782 : 34099 PRAR CK7 - 34098 PR CRK4G CKT: 1   250.1   248.1   181.0   181.0   146.2   144.7     1.5
SINGLE 147  : 34066 M-TOWN 7 - 34528 M-TOWN Y CKT: 1   250.8   248.7   181.0   181.0   146.1   144.5     1.6
SINGLE 173  : 34084 PARNEL 5 - 34185 POWESHK5 CKT: 1   250.8   248.7   181.0   181.0   146.1   144.5     1.6
SINGLE 153  : 34068 M-TOWN 5 - 34528 M-TOWN Y CKT: 1   250.8   248.7   181.0   181.0   146.1   144.5     1.6
SINGLE 35   : 34010 HAYWARD5 - 34015 LIME CK5 CKT: 1   250.6   248.4   181.0   181.0   146.0   144.4     1.6
SINGLE 2707 : 34010 HAYWARD5 - 61984 AUSTIN 5 CKT: 1   250.8   248.6   181.0   181.0   146.0   144.5     1.5
SINGLE 145  : 34066 M-TOWN 7 - 34085 BLRSTWN7 CKT: 1   250.8   248.6   181.0   181.0   146.0   144.5     1.5
SINGLE 2769 : 34084 PARNEL 5 - 64351 HILLS  5 CKT: 1   250.4   248.2   181.0   181.0   145.8   144.2     1.6
SINGLE 300  : 34185 POWESHK5 - 34191 REASNOR5 CKT: 1   250.4   248.3   181.0   181.0   145.8   144.2     1.6
SINGLE 115  : 34051 TOLEDO 7 - 34083 BL.PLN.7 CKT: 1   250.5   248.3   181.0   181.0   145.8   144.2     1.6
SINGLE 21   : 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1   250.5   248.1   181.0   181.0   145.7   144.0     1.7
SINGLE 32   : 34009 WINBAGO5 - 61932 RUTLAND5 CKT: 1   250.6   248.4   181.0   181.0   145.6   144.1     1.5
SINGLE 175  : 34085 BLRSTWN7 - 34099 PRAR CK7 CKT: 1   250.1   248.0   181.0   181.0   145.6   144.0     1.6
SINGLE 1275 : 60265 LOON TP7 - 60830 EASTWD18 CKT: P   250.3   248.1   181.0   181.0   145.6   144.1     1.5
SINGLE 2808 : 34157 TRAER  8 - 63734 WELSBRG8 CKT: 1   250.3   248.1   181.0   181.0   145.6   144.0     1.6
SINGLE 164  : 34079 TRAER  5 - 34532 TRAER  Y CKT: 1   250.1   247.9   181.0   181.0   145.5   143.9     1.6
SINGLE 1696 : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1   250.3   248.1   181.0   181.0   145.5   144.0     1.5
SINGLE 265  : 34157 TRAER  8 - 34532 TRAER  Y CKT: 1   250.1   247.9   181.0   181.0   145.5   143.9     1.6
SINGLE 120  : 34054 GR JCT 5 - 34058 PERRY  5 CKT: 1   250.1   247.9   181.0   181.0   145.5   144.0     1.5
SINGLE 2744 : 34054 GR JCT 5 - 63771 DRAGER 5 CKT: 1   249.8   247.6   181.0   181.0   145.4   143.9     1.5
SINGLE 34   : 34010 HAYWARD5 - 34014 ADAMS  5 CKT: 1   249.9   247.7   181.0   181.0   145.4   143.8     1.6
SINGLE 28   : 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1   250.1   248.0   181.0   181.0   145.4   143.9     1.5
SINGLE 172  : 34083 BL.PLN.7 - 34095 STON PT7 CKT: 1   249.7   247.5   181.0   181.0   145.3   143.8     1.5
SINGLE 2813 : 34179 JASPER 5 - 64189 NEANKNY5 CKT: 1   249.7   247.5   181.0   181.0   145.3   143.7     1.6
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SINGLE 1069 : 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C   249.7   .....   181.0   .....   145.2   .....   *NEW*
SINGLE 1697 : 61952 S FARIB5 - 61964 OWATNNA5 CKT: 1   249.8   247.6   181.0   181.0   145.2   143.7     1.5
SINGLE 2762 : 34075 ELDORA 7 - 34158 ELDORA 9 CKT: 1   249.8   247.7   181.0   181.0   145.2   143.7     1.5
SINGLE 49   : 34016 EMERY  5 - 34017 CGORDO_5 CKT: 1   249.7   .....   181.0   .....   145.2   .....   *NEW*
SINGLE 1120 : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C   249.8   247.6   181.0   181.0   145.2   143.7     1.5
SINGLE 1121 : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1   249.8   247.6   181.0   181.0   145.2   143.7     1.5
SINGLE 955  : 60107 W FARIB7 - 61952 S FARIB5 CKT: 1   249.8   247.6   181.0   181.0   145.2   143.7     1.5
SINGLE 1365 : 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C   249.7   .....   181.0   .....   145.2   .....   *NEW*
BASE CASE   : **       BASE CASE      **              248.7   246.5   181.0   181.0   144.6   143.0     1.6
SINGLE 180  : 34091 ARNOLD 5 - 34534 ARNOLD Y CKT: 1   246.8   244.7   181.0   181.0   144.4   142.8     1.6
SINGLE 181  : 34093 ARNOLD 3 - 34534 ARNOLD Y CKT: 1   246.8   244.7   181.0   181.0   144.4   142.8     1.6
SINGLE 2595 : 67101 ANTELOP3 - 67120 HURON  3 CKT: 1   247.7   245.5   181.0   181.0   143.9   142.3     1.6
SINGLE 2613 : 67120 HURON  3 - 67204 BRDLNDTY CKT: 1   247.7   245.5   181.0   181.0   143.9   142.3     1.6
SINGLE 2635 : 67204 BRDLNDTY - 67205 BRDLAND4 CKT: 1   247.7   245.5   181.0   181.0   143.9   142.3     1.6
SINGLE 197  : 34107 BEVERLY5 - 34111 FAIRFAX5 CKT: 1   247.6   245.5   181.0   181.0   143.9   142.4     1.5
SINGLE 118  : 34053 MT VERN5 - 34109 BERTRAM5 CKT: 1   247.5   245.3   181.0   181.0   143.9   142.4     1.5
SINGLE 2482 : 66514 HURON  4 - 67205 BRDLAND4 CKT: 1   247.7   245.5   181.0   181.0   143.9   142.3     1.6
SINGLE 2494 : 66523 SIOUXFL4 - 66578 PAHOJA 4 CKT: 1   247.6   245.4   181.0   181.0   143.9   142.3     1.6
SINGLE 2515 : 66562 EAGLE  4 - 66578 PAHOJA 4 CKT: 1   247.6   245.4   181.0   181.0   143.9   142.3     1.6
SINGLE 2700 :  6001 YANKEE 7 -  6003 G176     CKT: 1   247.7   245.5   181.0   181.0   143.8   142.2     1.6
SINGLE 2724 : 34021 LANSINGW - 69523 GENOA  5 CKT: 1   247.2   245.1   181.0   181.0   143.7   142.1     1.6
SINGLE 24   : 34007 LAKEFLD5 - 34137 TRIBOJI5 CKT: 1   247.3   244.6   181.0   181.0   143.6   141.8     1.8
SINGLE 1292 : 60287 NOBLES 7 - 60369 FENTON 7 CKT: C   247.3   245.1   181.0   181.0   143.6   142.0     1.6
SINGLE 2451 : 66506 FTTHOMP3 - 67105 LELANDO3 CKT: 1   247.1   244.9   181.0   181.0   143.6   142.0     1.6
SINGLE 179  : 34091 ARNOLD 5 - 34111 FAIRFAX5 CKT: 1   247.1   245.0   181.0   181.0   143.6   142.0     1.6
SINGLE 2722 : 34020 HAZL S 5 - 64269 WASHBRN5 CKT: 1   245.4   243.3   181.0   181.0   143.4   142.0     1.4
SINGLE 2702 :  6450 PRIMGHAR -  6460 GI0304F1 CKT: 1   246.9   .....   181.0   .....   143.3   .....   *NEW*
SINGLE 57   : 34019 HAZLTON5 - 34020 HAZL S 5 CKT: 1   246.1   244.0   181.0   181.0   143.2   141.7     1.5
SINGLE 2785 : 34105 HIAWATA5 - 34112 HIAWATA9 CKT: 1   246.6   244.5   181.0   181.0   143.2   141.7     1.5
SINGLE 2805 : 34137 TRIBOJI5 - 63897 G298SYS  CKT: 1   246.7   244.5   181.0   181.0   143.1   141.5     1.6
SINGLE 2720 : 34017 CGORDO_5 - 34414 CGORDO1G CKT: 1   246.5   244.3   181.0   181.0   143.0   141.4     1.6
SINGLE 2699 :  6001 YANKEE 7 -  6002 YANKGEN  CKT: 1   246.6   244.4   181.0   181.0   143.0   141.4     1.6
SINGLE 2461 : 66507 FTTHOMP4 - 66540 BIGBND14 CKT: 1   246.6   244.4   181.0   181.0   143.0   141.5     1.5
SINGLE 247  : 34137 TRIBOJI5 - 66563 SPENCER5 CKT: 1   246.1   243.4   181.0   181.0   142.8   140.9     1.9
SINGLE 2703 : 34006 LAKEFLD3 -  3400 G164     CKT: 1   246.3   244.0   181.0   181.0   142.7   141.1     1.6
SINGLE 2704 : 34006 LAKEFLD3 - 63875 RAUN   3 CKT: 1   245.5   243.3   181.0   181.0   142.7   141.1     1.6
SINGLE 2705 : 34007 LAKEFLD5 -  6006 G262     CKT: 1   246.1   243.9   181.0   181.0   142.6   141.0     1.6
SINGLE 940  : 60015 ANSON CG - 60129 SPLT RK7 CKT: 1   245.8   243.6   181.0   181.0   142.4   140.8     1.6
SINGLE 941  : 60015 ANSON CG - 61475 ANS TR2Y CKT: 2   245.8   243.6   181.0   181.0   142.4   140.8     1.6
SINGLE 176  : 34087 DYSART 5 - 34089 VINTON 5 CKT: 1   243.7   241.7   181.0   181.0   142.2   140.7     1.5
SINGLE 1001 : 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1   244.9   242.6   181.0   181.0   142.0   140.4     1.6
SINGLE 1002 : 60126 SPLT RK3 - 60131 SPLTRTB3 CKT: 1   244.6   242.4   181.0   181.0   142.0   140.4     1.6
SINGLE 1008 : 60130 SPLTRTA3 - 66537 WHITE  3 CKT: 1   244.9   242.6   181.0   181.0   142.0   140.4     1.6
SINGLE 1009 : 60131 SPLTRTB3 - 66564 SIOUXCY3 CKT: 1   244.6   242.4   181.0   181.0   142.0   140.4     1.6
SINGLE 71   : 34028 LORE   5 - 34129 LIBERTY5 CKT: 1   245.1   243.0   181.0   181.0   142.0   140.5     1.5
SINGLE 177  : 34089 VINTON 5 - 34091 ARNOLD 5 CKT: 1   243.3   241.3   181.0   181.0   141.9   140.4     1.5
SINGLE 234  : 34129 LIBERTY5 - 34135 DUNDEE 5 CKT: 1   243.3   241.1   181.0   181.0   140.8   139.3     1.5
SINGLE 2715 : 34016 EMERY  5 - 34910 EMERYGT1 CKT: 1   241.6   239.5   181.0   181.0   139.4   137.9     1.5
SINGLE 2716 : 34016 EMERY  5 - 34911 EMERYGT2 CKT: 1   241.6   239.5   181.0   181.0   139.4   137.9     1.5
SINGLE 2721 : 34019 HAZLTON5 - 64250 BLKHAWK5 CKT: 1   235.2   233.4   181.0   181.0   138.9   137.6     1.3
SINGLE 60   : 34020 HAZL S 5 - 34135 DUNDEE 5 CKT: 1   239.0   236.9   181.0   181.0   137.8   136.2     1.6
SINGLE 2718 : 34016 EMERY  5 - 63774 SHEFFLD5 CKT: 1   233.6   231.3   181.0   181.0   135.8   134.2     1.6
SINGLE 2775 : 34093 ARNOLD 3 - 64352 TIFFIN 3 CKT: 1   231.7   229.7   181.0   181.0   133.4   132.1     1.3
SINGLE 53   : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1   .....   227.2   .....   181.0   .....   133.2  *ELIM*
SINGLE 2819 : 34191 REASNOR5 - 64062 DMOINES5 CKT: 1   .....   248.1   .....   181.0   .....   144.1  *ELIM*
SINGLE 2858 : 34571 FRNKLN_Y - 64239 FRANKLN5 CKT: 1   .....   263.9   .....   181.0   .....   154.3  *ELIM*
SINGLE 2892 : 60102 ADAMS  3 - 63032 PL VLLY3 CKT: 1   .....   258.0   .....   181.0   .....   151.0  *ELIM*
*** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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 85) 64256 UNIONTP5 - 64655 UNI MID8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 2719 : 34016 EMERY  5 - 64252 FLOYD  5 CKT: 1   107.9   107.6   100.0   100.0   107.9   107.6     0.3
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SINGLE 156  : 34072 FRNKLIN7 - 34571 FRNKLN_Y CKT: 1   102.6   102.4   100.0   100.0   102.6   102.4     0.2
SINGLE 155  : 34072 FRNKLIN7 - 34077 IA FALS7 CKT: 1   102.6   102.4   100.0   100.0   102.6   102.4     0.2
SINGLE 2860 : 34571 FRNKLN_Y - 64239 FRANKLN5 CKT: 1   102.6   102.4   100.0   100.0   102.6   102.4     0.2
SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1   102.5   102.3   100.0   100.0   102.5   102.3     0.2
825         : ** MULTIPLE CONTINGENCY **               102.4   102.2   100.0   100.0   102.4   102.2     0.2
            : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
            : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
            : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1
SINGLE 163  : 34079 TRAER  5 - 34087 DYSART 5 CKT: 1   102.2   102.1   100.0   100.0   102.2   102.1     0.1
SINGLE 151  : 34068 M-TOWN 5 - 34079 TRAER  5 CKT: 1   101.7   101.5   100.0   100.0   101.7   101.5     0.2
SINGLE 160  : 34075 ELDORA 7 - 34077 IA FALS7 CKT: 1   101.7   101.5   100.0   100.0   101.7   101.5     0.2
SINGLE 161  : 34075 ELDORA 7 - 34169 WELSBGT7 CKT: 1   101.4   101.2   100.0   100.0   101.4   101.2     0.2
SINGLE 2772 : 34087 DYSART 5 - 64269 WASHBRN5 CKT: 1   101.4   101.2   100.0   100.0   101.4   101.2     0.2
SINGLE 2774 : 34091 ARNOLD 5 - 34090 ARNOLD1G CKT: 1   101.2   101.1   100.0   100.0   101.2   101.1     0.1
SINGLE 57   : 34019 HAZLTON5 - 34020 HAZL S 5 CKT: 1   101.2   100.9   100.0   100.0   101.2   100.9     0.3
BASE CASE   : **       BASE CASE      **               100.1    99.9   100.0   100.0   100.1    99.9     0.2
SINGLE 2717 : 34016 EMERY  5 - 34912 EMERYST1 CKT: 1    99.1    98.8   100.0   100.0    99.1    98.8     0.3
SINGLE 176  : 34087 DYSART 5 - 34089 VINTON 5 CKT: 1    98.7    98.6   100.0   100.0    98.7    98.6     0.1
SINGLE 2775 : 34093 ARNOLD 3 - 64352 TIFFIN 3 CKT: 1    98.6    98.4   100.0   100.0    98.6    98.4     0.2
SINGLE 2718 : 34016 EMERY  5 - 63774 SHEFFLD5 CKT: 1    98.5    98.3   100.0   100.0    98.5    98.3     0.2
SINGLE 177  : 34089 VINTON 5 - 34091 ARNOLD 5 CKT: 1    98.5    98.4   100.0   100.0    98.5    98.4     0.1

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86) 64418 E MOLINE - 64671 SB39MID8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
050    1    : ** MULTIPLE CONTINGENCY **               .....   113.9   .....   125.0   .....    91.1  *ELIM*
            : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
            : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
            : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
            : 39901 COC DPC  - 38342 COC 69   CKT: 1
            : 38333 HLT 69   - 68821 MAUSTON  CKT: 1

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87) 66405 FTPECK 4 - 66414 FTPECK4G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 3494 : 66405 FTPECK 4 - 66415 FTPECK5G CKT: 1    45.5    45.5    48.0    48.0    94.8    94.8     0.0
SINGLE 2214 : 66210 DAWSONCT - 66403 DAWSONC4 CKT: 1    44.7    44.7    48.0    48.0    93.1    93.1     0.0
BASE CASE   : **       BASE CASE      **               43.3    43.3    48.0    48.0    90.3    90.3     0.0

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88) 66441 GARRISN4 - 66457 GARISN1G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
SINGLE 2199 : 63369 JAMESTN3 - 66791 CENTER 3 CKT: 1    94.2    94.2   100.0   100.0    94.2    94.2     0.0
BASE CASE   : **       BASE CASE      **               93.1    93.1   100.0   100.0    93.1    93.1     0.0

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89) 66441 GARRISN4 - 66458 GARISN2G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
SINGLE 2199 : 63369 JAMESTN3 - 66791 CENTER 3 CKT: 1    94.2    94.2   100.0   100.0    94.2    94.2     0.0
BASE CASE   : **       BASE CASE      **               93.1    93.1   100.0   100.0    93.1    93.1     0.0

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90) 66441 GARRISN4 - 66459 GARISN3G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
SINGLE 2199 : 63369 JAMESTN3 - 66791 CENTER 3 CKT: 1    94.2    94.2   100.0   100.0    94.2    94.2     0.0
BASE CASE   : **       BASE CASE      **               93.1    93.1   100.0   100.0    93.1    93.1     0.0

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91) 66442 GARRISN7 - 66460 GARISN4G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
SINGLE 3508 : 66442 GARRISN7 - 66461 GARISN5G CKT: 1   103.8   103.8   100.0   100.0   103.8   103.8     0.0
BASE CASE   : **       BASE CASE      **               94.6    94.6   100.0   100.0    94.6    94.6     0.0
SINGLE 2587 : 66791 CENTER 3 - 67316 COYOTE 3 CKT: 1    93.4    93.4   100.0   100.0    93.4    93.4     0.0
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 92) 66442 GARRISN7 - 66461 GARISN5G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
--------------------------------------------------------------------------------------------------
 SINGLE 3507 : 66442 GARRISN7 - 66460 GARISN4G CKT: 1   103.8   103.8   100.0   100.0   103.8   103.8     0.0
 SINGLE 2381 : 66441 GARRISN4 - 66444 JAMESTN4 CKT: 1   100.0   100.0   100.0   100.0   100.0   100.0     0.0
 SINGLE 2350 : 66426 BISMARK4 - 66441 GARRISN4 CKT: 1    99.9    99.9   100.0   100.0    99.9    99.9     0.0
 SINGLE 3587 : 66791 CENTER 3 - 66756 SQBUTTE4 CKT: 1    99.9    99.9   100.0   100.0    99.9    99.9     0.0
 BASE CASE   : **       BASE CASE      **               98.9    98.9   100.0   100.0    98.9    98.9     0.0
 SINGLE 2384 : 66442 GARRISN7 - 67113 VOLTAIR7 CKT: 1    97.1    97.1   100.0   100.0    97.1    97.1     0.0
 SINGLE 2199 : 63369 JAMESTN3 - 66791 CENTER 3 CKT: 1    96.9    96.9   100.0   100.0    96.9    96.9     0.0
 SINGLE 2655 : 67308 BEULAH 7 - 67318 COYOTE 7 CKT: 1    96.4    96.4   100.0   100.0    96.4    96.4     0.0
 SINGLE 2587 : 66791 CENTER 3 - 67316 COYOTE 3 CKT: 1    96.1    96.1   100.0   100.0    96.1    96.1     0.0
 SINGLE 2380 : 66441 GARRISN4 - 66442 GARRISN7 CKT: 1    96.0    95.9   100.0   100.0    96.0    95.9     0.1
 SINGLE 2385 : 66442 GARRISN7 - 67308 BEULAH 7 CKT: 1    94.7    94.7   100.0   100.0    94.7    94.7     0.0
 SINGLE 2193 : 63358 BUFFALO3 - 63369 JAMESTN3 CKT: 1   .....    97.8   .....   100.0   .....    97.8  *ELIM*

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 93) 66509 FTRANDL4 - 66549 FTRDL78G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
--------------------------------------------------------------------------------------------------
 SINGLE 1001 : 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1    93.6    93.6    98.0    98.0    95.5    95.5     0.0
 SINGLE 1002 : 60126 SPLT RK3 - 60131 SPLTRTB3 CKT: 1    93.6    93.6    98.0    98.0    95.5    95.5     0.0
 SINGLE 1008 : 60130 SPLTRTA3 - 66537 WHITE  3 CKT: 1    93.6    93.6    98.0    98.0    95.5    95.5     0.0
 SINGLE 1009 : 60131 SPLTRTB3 - 66564 SIOUXCY3 CKT: 1    93.6    93.6    98.0    98.0    95.5    95.5     0.0
 SINGLE 3521 : 66506 FTTHOMP3 - 66571 GR ISLD3 CKT: 1    93.6    93.6    98.0    98.0    95.5    95.5     0.0
 SINGLE 3527 : 66510 FTRANDL7 - 66546 FTRDL12G CKT: 1    89.7    89.7    98.0    98.0    91.5    91.5     0.0
 BASE CASE   : **       BASE CASE      **               88.6    88.6    98.0    98.0    90.4    90.4     0.0
 SINGLE 54   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1   .....    89.6   .....    98.0   .....    91.4  *ELIM*
 050    2    : ** MULTIPLE CONTINGENCY **               .....    91.3   .....    98.0   .....    93.1  *ELIM*
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
 SINGLE 949  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1   .....    91.2   .....    98.0   .....    93.1  *ELIM*

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 94) 66510 FTRANDL7 - 66546 FTRDL12G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
--------------------------------------------------------------------------------------------------
 SINGLE 2472 : 66511 GAVINS 7 - 67407 YKNTJCT7 CKT: 1    91.8    91.8    98.0    98.0    93.6    93.6     0.0
 SINGLE 3521 : 66506 FTTHOMP3 - 66571 GR ISLD3 CKT: 1    91.8    91.8    98.0    98.0    93.6    93.6     0.0
 SINGLE 2399 : 66463 WH SWAN7 - 66510 FTRANDL7 CKT: 1    90.4    90.4    98.0    98.0    92.3    92.3     0.0
 SINGLE 2400 : 66463 WH SWAN7 - 66525 TYNDALL7 CKT: 1    90.4    90.4    98.0    98.0    92.3    92.3     0.0
 SINGLE 3528 : 66511 GAVINS 7 - 64751 BLMFLD 7 CKT: 1    90.4    90.4    98.0    98.0    92.3    92.3     0.0
 SINGLE 3526 : 66510 FTRANDL7 - 64965 SPENCER7 CKT: 1    90.0    90.0    98.0    98.0    91.8    91.9    -0.1
 SINGLE 2455 : 66507 FTTHOMP4 - 66516 LAKPLAT4 CKT: 1    89.7    89.7    98.0    98.0    91.5    91.6    -0.1
 BASE CASE   : **       BASE CASE      **               88.5    88.5    98.0    98.0    90.3    90.3     0.0
 SINGLE 949  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1   .....    89.5   .....    98.0   .....    91.4  *ELIM*

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 95) 66540 BIGBND14 - 66542 BGBND12G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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 BASE CASE   : **       BASE CASE      **              128.2   128.2   142.0   142.0    90.3    90.3     0.0

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 96) 66563 SPENCER5 - 66580 SPENCR 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
--------------------------------------------------------------------------------------------------
 050    2    : ** MULTIPLE CONTINGENCY **               55.5   .....    60.0   .....    92.5   .....   *NEW*
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
 SINGLE 2717 : 34016 EMERY  5 - 34912 EMERYST1 CKT: 1    55.3   .....    60.0   .....    92.2   .....   *NEW*

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 97) 66563 SPENCER5 - 66580 SPENCR 8 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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SINGLE 3362 : 61950 BYRON 3 - 63032 PL VLLY3 CKT: 1	46.2	.....	50.0	.....	92.3	.....	*NEW*				

98) 66565 SIOUXCY4 - 66567 DENISON4 CKT: 1	PSTCNT2	PSTCNT1	RATING2	RATING1	PERCNT2	PERCNT1	%CHG2-1
SINGLE 56 : 34018 HAZLTON3 - 60102 ADAMS 3 CKT: 1	256.7	254.3	240.0	240.0	105.8	104.8	1.0
SINGLE 959 : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1	256.7	252.6	240.0	240.0	105.6	103.9	1.7
SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1	250.6	248.3	240.0	240.0	103.3	102.3	1.0
SINGLE 958 : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1	250.0	247.7	240.0	240.0	102.8	101.8	1.0
SINGLE 20 : 34006 LAKEFLD3 - 60286 NOBLES 3 CKT: C	247.7	245.4	240.0	240.0	101.7	100.8	0.9
SINGLE 29 : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1	245.9	243.6	240.0	240.0	101.1	100.2	0.9
SINGLE 32 : 34009 WINBAGO5 - 61932 RUTLAND5 CKT: 1	245.4	243.1	240.0	240.0	100.9	100.0	0.9
SINGLE 133 : 34059 BOONE 7 - 34076 BNE JCT7 CKT: 1	245.1	242.9	240.0	240.0	100.8	99.8	1.0
SINGLE 33 : 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1	244.6	242.3	240.0	240.0	100.6	99.6	1.0
SINGLE 992 : 60122 LAWRENC7 - 60834 LAWRENC8 CKT: 1	244.4	242.2	240.0	240.0	100.5	99.6	0.9
SINGLE 28 : 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1	244.4	242.1	240.0	240.0	100.5	99.5	1.0
SINGLE 2303 : 66307 SIOUXC3T - 66565 SIOUXCY4 CKT: 1	244.2	242.4	240.0	240.0	100.4	99.7	0.7
SINGLE 2304 : 66307 SIOUXC3T - 66566 SIOUXCY5 CKT: 1	244.2	242.4	240.0	240.0	100.4	99.7	0.7
SINGLE 2305 : 66309 SIOUXC4T - 66565 SIOUXCY4 CKT: 1	244.2	242.4	240.0	240.0	100.4	99.7	0.7
SINGLE 2306 : 66309 SIOUXC4T - 66566 SIOUXCY5 CKT: 1	244.2	242.4	240.0	240.0	100.4	99.7	0.7
SINGLE 21 : 34006 LAKEFLD3 - 60331 LKFLDXL3 CKT: 1	243.9	241.3	240.0	240.0	100.3	99.2	1.1
SINGLE 1491 : 60834 LAWRENC8 - 60863 SF M2 T8 CKT: 1	243.6	241.3	240.0	240.0	100.2	99.2	1.0
SINGLE 1506 : 60851 SX FLS 8 - 60863 SF M2 T8 CKT: 1	243.3	241.1	240.0	240.0	100.1	99.1	1.0
SINGLE 2285 : 66287 RASMUSN8 - 66536 RASMUSN4 CKT: 1	243.6	241.3	240.0	240.0	100.1	99.2	0.9
SINGLE 1121 : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1	243.2	240.8	240.0	240.0	100.0	99.1	0.9
SINGLE 2200 : 65009 WAYSIDE4 - 66484 NUNDRWD4 CKT: 1	243.2	240.9	240.0	240.0	100.0	99.1	0.9
SINGLE 1236 : 60238 REDROCK7 - 60336 NSSJCT 7 CKT: 1	243.3	241.0	240.0	240.0	100.0	99.1	0.9
SINGLE 1275 : 60265 LOON TP7 - 60830 EASTWD18 CKT: P	243.3	241.0	240.0	240.0	100.0	99.1	0.9
SINGLE 1361 : 60336 NSSJCT 7 - 60337 NSSTAP 7 CKT: 1	243.3	241.0	240.0	240.0	100.0	99.1	0.9
SINGLE 1362 : 60337 NSSTAP 7 - 60338 NSSTL 7 CKT: 1	243.3	241.0	240.0	240.0	100.0	99.1	0.9
SINGLE 1120 : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C	243.1	240.8	240.0	240.0	100.0	99.1	0.9
SINGLE 2277 : 66279 HANLON28 - 66513 HANLON 4 CKT: 1	242.9	240.7	240.0	240.0	99.9	98.9	1.0
SINGLE 155 : 34072 FRNKLIN7 - 34077 IA FALS7 CKT: 1	243.0	240.7	240.0	240.0	99.9	98.9	1.0
SINGLE 1043 : 60146 GRANCTY7 - 60161 STREGIS7 CKT: 1	243.1	240.8	240.0	240.0	99.9	99.0	0.9
SINGLE 1696 : 61948 BYRON 5 - 61964 OWATNNA5 CKT: 1	243.1	240.9	240.0	240.0	99.9	99.0	0.9
SINGLE 1764 : 62123 WOODCRT8 - 62132 PRKWOOD8 CKT: 1	243.1	240.8	240.0	240.0	99.9	99.0	0.9
SINGLE 156 : 34072 FRNKLIN7 - 34571 FRNKLN_Y CKT: 1	243.0	240.7	240.0	240.0	99.9	98.9	1.0
BASE CASE : ** BASE CASE **	241.9	239.6	240.0	240.0	99.4	98.5	0.9
SINGLE 994 : 60123 PIPESTN7 - 60125 PATHFDR7 CKT: 1	240.9	238.6	240.0	240.0	99.0	98.1	0.9
SINGLE 1000 : 60125 PATHFDR7 - 60129 SPLT RK7 CKT: 1	240.9	238.6	240.0	240.0	99.0	98.1	0.9
SINGLE 738 : 34639 LEON 8 - 34641 KELLERT8 CKT: 1	240.8	238.6	240.0	240.0	99.0	98.0	1.0
SINGLE 741 : 34641 KELLERT8 - 34643 GRRIVER8 CKT: 1	240.8	238.6	240.0	240.0	99.0	98.0	1.0
SINGLE 277 : 34175 CORYDON8 - 34635 ALERTON8 CKT: 1	240.8	238.6	240.0	240.0	99.0	98.0	1.0
SINGLE 734 : 34635 ALERTON8 - 34636 CLIO T8 CKT: 1	240.8	238.6	240.0	240.0	99.0	98.0	1.0
SINGLE 737 : 34636 CLIO T8 - 34639 LEON 8 CKT: 1	240.8	238.6	240.0	240.0	99.0	98.0	1.0
SINGLE 2460 : 66507 FTTHOMP4 - 66523 SIOUXFL4 CKT: 1	240.8	238.5	240.0	240.0	99.0	98.0	1.0
SINGLE 121 : 34054 GR JCT 5 - 34525 GR JCT Y CKT: 1	240.8	238.5	240.0	240.0	98.9	98.0	0.9
SINGLE 2027 : 62985 HUTCHPK8 - 62986 HUTCHMN8 CKT: 1	240.7	238.5	240.0	240.0	98.9	98.0	0.9
SINGLE 2500 : 66529 WATERTN3 - 67160 GROTON 3 CKT: 1	240.7	238.4	240.0	240.0	98.9	98.0	0.9
SINGLE 46 : 34015 LIME CK5 - 34016 EMERY 5 CKT: 1	240.6	238.4	240.0	240.0	98.8	97.9	0.9
SINGLE 300 : 34185 POWESHK5 - 34191 REASNOR5 CKT: 1	240.5	238.3	240.0	240.0	98.8	97.9	0.9
SINGLE 173 : 34084 PARNEL 5 - 34185 POWESHK5 CKT: 1	240.4	238.1	240.0	240.0	98.8	97.8	1.0
SINGLE 725 : 34625 LACONA 8 - 34627 LUCAS T8 CKT: 1	240.3	238.0	240.0	240.0	98.7	97.8	0.9
SINGLE 755 : 34658 OSCEOLA8 - 34659 OSCEREC8 CKT: 1	240.2	238.0	240.0	240.0	98.7	97.8	0.9
SINGLE 726 : 34625 LACONA 8 - 34640 WODBURN8 CKT: 1	240.3	238.0	240.0	240.0	98.7	97.8	0.9
SINGLE 151 : 34068 M-TOWN 5 - 34079 TRAER 5 CKT: 1	240.1	237.9	240.0	240.0	98.7	97.7	1.0
SINGLE 328 : 34202 LUCAS 8 - 34627 LUCAS T8 CKT: 1	240.3	238.0	240.0	240.0	98.7	97.8	0.9
SINGLE 689 : 34587 MURRAY 8 - 34658 OSCEOLA8 CKT: 1	240.2	238.0	240.0	240.0	98.7	97.8	0.9
SINGLE 2315 : 66402 MI CTYW4 - 66450 MT WEST4 CKT: 1	240.3	238.0	240.0	240.0	98.7	97.8	0.9
SINGLE 2455 : 66507 FTTHOMP4 - 66516 LAKPLAT4 CKT: 1	240.1	237.9	240.0	240.0	98.7	97.7	1.0
SINGLE 2188 : 63314 BIGSTON4 - 66503 BLAIR 4 CKT: 1	240.2	238.0	240.0	240.0	98.7	97.8	0.9
SINGLE 2468 : 66509 FTRANDL4 - 66516 LAKPLAT4 CKT: 1	240.3	238.0	240.0	240.0	98.7	97.8	0.9

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SINGLE 2469 : 66509 FTRANDL4 - 66526 UTICAJC4 CKT: 1   240.1   237.7   240.0   240.0    98.7    97.8     0.9
SINGLE 739  : 34640 WODBURN8 - 34659 OSCEREC8 CKT: 1   240.2   238.0   240.0   240.0    98.7    97.8     0.9
SINGLE 2452 : 66507 FTTHOMP4 - 66509 FTRANDL4 CKT: 1   240.1   237.8   240.0   240.0    98.6    97.7     0.9
SINGLE 163  : 34079 TRAER  5 - 34087 DYSART 5 CKT: 1   240.0   237.8   240.0   240.0    98.6    97.7     0.9
SINGLE 686  : 34585 LORIMRR8 - 34588 SLAKEN 8 CKT: 1   239.8   237.6   240.0   240.0    98.5    97.6     0.9
SINGLE 687  : 34586 LORIMOR8 - 34587 MURRAY 8 CKT: 1   239.8   237.6   240.0   240.0    98.5    97.6     0.9
SINGLE 9    :  6450 PRIMGHAR - 66566 SIOUXCY5 CKT: 1   239.2   .....   240.0   .....    98.5   .....   *NEW*
SINGLE 685  : 34585 LORIMRR8 - 34586 LORIMOR8 CKT: 1   239.8   237.6   240.0   240.0    98.5    97.6     0.9
SINGLE 1130 : 60193 BLUE LK7 - 61476 BLL TR5Y CKT: 5   239.7   237.5   240.0   240.0    98.5    97.6     0.9
SINGLE 1131 : 60193 BLUE LK7 - 61477 BLL TR6Y CKT: 6   239.7   237.4   240.0   240.0    98.5    97.5     1.0
SINGLE 2482 : 66514 HURON  4 - 67205 BRDLAND4 CKT: 1   239.6   237.3   240.0   240.0    98.4    97.5     0.9
SINGLE 2451 : 66506 FTTHOMP3 - 67105 LELANDO3 CKT: 1   239.5   237.2   240.0   240.0    98.4    97.4     1.0
SINGLE 131  : 34058 PERRY  5 - 34179 JASPER 5 CKT: 1   239.2   237.0   240.0   240.0    98.3    97.4     0.9
SINGLE 157  : 34073 GR JCT 7 - 34529 GRJCT5Y  CKT: 1   238.9   236.6   240.0   240.0    98.2    97.2     1.0
SINGLE 122  : 34054 GR JCT 5 - 34529 GRJCT5Y  CKT: 1   238.9   236.6   240.0   240.0    98.2    97.2     1.0
SINGLE 132  : 34059 BOONE  7 - 34073 GR JCT 7 CKT: 1   238.9   236.6   240.0   240.0    98.2    97.2     1.0
SINGLE 2462 : 66507 FTTHOMP4 - 66541 BIGBND24 CKT: 1   239.1   236.9   240.0   240.0    98.2    97.3     0.9
SINGLE 1003 : 60126 SPLT RK3 - 60286 NOBLES 3 CKT: C   239.1   236.8   240.0   240.0    98.1    97.2     0.9
SINGLE 111  : 34048 ANITA  5 - 34524 ANITA  Y CKT: 1   238.4   236.2   240.0   240.0    98.0    97.1     0.9
SINGLE 1292 : 60287 NOBLES 7 - 60369 FENTON 7 CKT: C   238.4   236.1   240.0   240.0    98.0    97.1     0.9
SINGLE 141  : 34064 ANITA  8 - 34524 ANITA  Y CKT: 1   238.4   236.2   240.0   240.0    98.0    97.1     0.9
SINGLE 2505 : 66536 RASMUSN4 - 66565 SIOUXCY4 CKT: 1   237.5   .....   240.0   .....    97.8   .....   *NEW*
SINGLE 2470 : 66509 FTRANDL4 - 66565 SIOUXCY4 CKT: 1   236.7   235.9   240.0   240.0    97.7    96.8     0.9
SINGLE 2302 : 66306 SIOUXC2T - 66565 SIOUXCY4 CKT: 1   237.2   234.7   240.0   240.0    97.5    96.5     1.0
SINGLE 2496 : 66526 UTICAJC4 - 66536 RASMUSN4 CKT: 1   236.5   234.2   240.0   240.0    97.5    96.5     1.0
SINGLE 2300 : 66303 SIOUXC1T - 66565 SIOUXCY4 CKT: 1   237.1   234.6   240.0   240.0    97.4    96.4     1.0
SINGLE 2301 : 66306 SIOUXC2T - 66564 SIOUXCY3 CKT: 1   236.5   234.1   240.0   240.0    97.4    96.4     1.0
SINGLE 135  : 34060 WNTRST 5 - 66560 CRESTON5 CKT: 1   237.1   234.9   240.0   240.0    97.4    96.5     0.9
SINGLE 2299 : 66303 SIOUXC1T - 66564 SIOUXCY3 CKT: 1   236.4   234.0   240.0   240.0    97.4    96.4     1.0
SINGLE 2461 : 66507 FTTHOMP4 - 66540 BIGBND14 CKT: 1   235.8   233.6   240.0   240.0    96.8    95.9     0.9
SINGLE 113  : 34049 SCRANTN5 - 34054 GR JCT 5 CKT: 1   235.4   233.2   240.0   240.0    96.7    95.8     0.9
SINGLE 2494 : 66523 SIOUXFL4 - 66578 PAHOJA 4 CKT: 1   234.2   231.9   240.0   240.0    96.5    95.5     1.0
SINGLE 1008 : 60130 SPLTRTA3 - 66537 WHITE  3 CKT: 1   232.8   230.4   240.0   240.0    95.6    94.6     1.0
SINGLE 1001 : 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1   232.8   230.4   240.0   240.0    95.6    94.6     1.0
SINGLE 941  : 60015 ANSON CG - 61475 ANS TR2Y CKT: 2   232.3   230.1   240.0   240.0    95.5    94.6     0.9
SINGLE 940  : 60015 ANSON CG - 60129 SPLT RK7 CKT: 1   232.3   230.1   240.0   240.0    95.5    94.6     0.9
SINGLE 112  : 34049 SCRANTN5 - 34050 GU CTR 5 CKT: 1   232.4   230.2   240.0   240.0    95.4    94.5     0.9
SINGLE 1002 : 60126 SPLT RK3 - 60131 SPLTRTB3 CKT: 1   228.6   226.3   240.0   240.0    94.2    93.2     1.0
SINGLE 1009 : 60131 SPLTRTB3 - 66564 SIOUXCY3 CKT: 1   228.4   226.1   240.0   240.0    94.2    93.2     1.0
SINGLE 120  : 34054 GR JCT 5 - 34058 PERRY  5 CKT: 1   229.5   227.5   240.0   240.0    94.2    93.4     0.8
SINGLE 110  : 34048 ANITA  5 - 34050 GU CTR 5 CKT: 1   228.2   226.0   240.0   240.0    93.7    92.8     0.9
SINGLE 108  : 34047 ANTA TP5 - 66560 CRESTON5 CKT: 1   223.5   221.7   240.0   240.0    91.8    91.1     0.7
SINGLE 107  : 34047 ANTA TP5 - 34048 ANITA  5 CKT: 1   222.2   220.1   240.0   240.0    91.3    90.4     0.9
SINGLE 53   : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1   .....   245.6   .....   240.0   .....   101.1  *ELIM*
SINGLE 2477 : 66513 HANLON 4 - 67122 STORLA 4 CKT: 1   .....   238.6   .....   240.0   .....    98.1  *ELIM*
*** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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 99) 66580 SPENCR 8 - 66581 SPENCER8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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 050    2    : ** MULTIPLE CONTINGENCY **               104.1   .....   100.0   .....   104.1   .....   *NEW*
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
SINGLE 2717 : 34016 EMERY  5 - 34912 EMERYST1 CKT: 1   103.8   .....   100.0   .....   103.8   .....   *NEW*
SINGLE 9    :  6450 PRIMGHAR - 66566 SIOUXCY5 CKT: 1   100.1   .....   100.0   .....   100.1   .....   *NEW*
SINGLE 247  : 34137 TRIBOJI5 - 66563 SPENCER5 CKT: 1    97.6   .....   100.0   .....    97.6   .....   *NEW*
SINGLE 1000 : 60126 SPLT RK3 - 60131 SPLTRTB3 CKT: 1   .....   103.9   .....   100.0   .....   103.9  *ELIM*
SINGLE 1007 : 60131 SPLTRTB3 - 66564 SIOUXCY3 CKT: 1   .....   104.0   .....   100.0   .....   104.0  *ELIM*
SINGLE 2513 : 66562 EAGLE  4 - 66578 PAHOJA 4 CKT: 1   .....   101.3   .....   100.0   .....   101.3  *ELIM*
SINGLE 2516 : 66563 SPENCER5 - 66566 SIOUXCY5 CKT: 1   .....   101.4   .....   100.0   .....   101.4  *ELIM*
SINGLE 2802 : 34136 TRIBOJI8 - 63732 MILFRDJ8 CKT: 1   .....   101.3   .....   100.0   .....   101.3  *ELIM*
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 100) 66581 SPENCER8 - 63710 WISDOM 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **               112.8   .....   110.0   .....   101.3   .....   *NEW*
              : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
              : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
  SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1   112.6   108.2   110.0   110.0   101.1    98.4     2.7
  050    2    : ** MULTIPLE CONTINGENCY **               112.9   .....   110.0   .....   101.1   .....   *NEW*
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
  SINGLE 2717 : 34016 EMERY  5 - 34912 EMERYST1 CKT: 1   112.8   110.4   110.0   110.0   101.0   100.3     0.7
  SINGLE 3562 : 66591 J2PRMGR8 - 63893 LT SX  8 CKT: 1   111.9   .....   110.0   .....   100.7   .....   *NEW*
  SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1   109.5   .....   110.0   .....    99.2   .....   *NEW*
  SINGLE 2716 : 34016 EMERY  5 - 34911 EMERYGT2 CKT: 1   109.4   .....   110.0   .....    99.1   .....   *NEW*
  SINGLE 2744 : 34054 GR JCT 5 - 63771 DRAGER 5 CKT: 1   109.5   .....   110.0   .....    99.1   .....   *NEW*
  SINGLE 3521 : 66506 FTTHOMP3 - 66571 GR ISLD3 CKT: 1   109.3   .....   110.0   .....    99.1   .....   *NEW*
  BLL-PRI/IVH3: ** MULTIPLE CONTINGENCY **               109.4   .....   110.0   .....    99.1   .....   *NEW*
              : 60192 BLUE LK3 - 60105 PR ISLD3 CKT: 1
              : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
  X0897-0898O1: ** MULTIPLE CONTINGENCY **               109.5   .....   110.0   .....    99.1   .....   *NEW*
              : 60215 HYLNDLK7 - 60193 BLUE LK7 CKT: 1
              : 60215 HYLNDLK7 - 60261 DEANLAK7 CKT: 1
              : 60261 DEANLAK7 - 60244 SCOTTCO7 CKT: 1
  SINGLE 1236 : 60238 REDROCK7 - 60336 NSSJCT 7 CKT: 1   109.5   .....   110.0   .....    99.1   .....   *NEW*
  SINGLE 1361 : 60336 NSSJCT 7 - 60337 NSSTAP 7 CKT: 1   109.5   .....   110.0   .....    99.1   .....   *NEW*
  825         : ** MULTIPLE CONTINGENCY **               109.3   .....   110.0   .....    99.1   .....   *NEW*
              : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
              : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
              : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1
  SINGLE 2715 : 34016 EMERY  5 - 34910 EMERYGT1 CKT: 1   109.4   .....   110.0   .....    99.1   .....   *NEW*
  SINGLE 3554 : 66566 SIOUXCY5 - 63889 PLYMOTH5 CKT: 1   109.5   .....   110.0   .....    99.0   .....   *NEW*
  LAKF-FOX DBL: ** MULTIPLE CONTINGENCY **               109.3   .....   110.0   .....    99.0   .....   *NEW*
              : 34007 LAKEFLD5 - 34008 FOX LK 5 CKT: 1
              : 34007 LAKEFLD5 - 34008 FOX LK 5 CKT: 2
  SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1   109.0   .....   110.0   .....    98.9   .....   *NEW*
  SINGLE 2517 : 66562 EAGLE  4 - 66579 EAGLE  8 CKT: 2   109.2   .....   110.0   .....    98.8   .....   *NEW*
  SINGLE 2436 : 66498 J1CENTR8 - 66589 L1SXCTR8 CKT: 1   109.1   .....   110.0   .....    98.7   .....   *NEW*
  SINGLE 3520 : 66498 J1CENTR8 - 64023 RCKVALY8 CKT: 1   108.7   .....   110.0   .....    98.4   .....   *NEW*
  SINGLE 246  : 34137 TRIBOJI5 - 34545 TRIBOJ2Y CKT: 2   108.8   .....   110.0   .....    98.3   .....   *NEW*
  SINGLE 3551 : 66563 SPENCER5 - 63906 BVISTA 5 CKT: 1   108.5   .....   110.0   .....    98.1   .....   *NEW*
  SINGLE 9    :  6450 PRIMGHAR - 66566 SIOUXCY5 CKT: 1   109.0   .....   110.0   .....    97.2   .....   *NEW*
  SINGLE 247  : 34137 TRIBOJI5 - 66563 SPENCER5 CKT: 1   108.0   .....   110.0   .....    97.2   .....   *NEW*
  SINGLE 20   : 34007 LAKEFLD5 - 34008 FOX LK 5 CKT: 1   .....   110.7   .....   110.0   .....   100.4  *ELIM*
  SINGLE 21   : 34007 LAKEFLD5 - 34008 FOX LK 5 CKT: 2   .....   110.6   .....   110.0   .....   100.4  *ELIM*
  SINGLE 26   : 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1   .....   110.3   .....   110.0   .....   100.2  *ELIM*
  SINGLE 31   : 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1   .....   110.4   .....   110.0   .....   100.2  *ELIM*
  SINGLE 47   : 34016 EMERY  5 - 34017 CGORDO_5 CKT: 1   .....   110.7   .....   110.0   .....   100.5  *ELIM*
  SINGLE 60   : 34021 LANSINGW - 34022 LANSING5 CKT: 1   .....   110.7   .....   110.0   .....   100.4  *ELIM*
  SINGLE 107  : 34047 ANTA TP5 - 66561 DENISON5 CKT: 1   .....   110.6   .....   110.0   .....   100.4  *ELIM*
  SINGLE 110  : 34049 SCRANTN5 - 34050 GU CTR 5 CKT: 1   .....   110.7   .....   110.0   .....   100.4  *ELIM*
  SINGLE 397  : 34245 WRTHMN28 - 62721 WRT TP 8 CKT: 1   .....   110.7   .....   110.0   .....   100.4  *ELIM*
  SINGLE 413  : 34256 WBGO   8 - 34257 WBGOJ N8 CKT: 1   .....   110.7   .....   110.0   .....   100.4  *ELIM*
  SINGLE 957  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   .....   113.0   .....   110.0   .....   101.8  *ELIM*
  SINGLE 1124 : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1   .....   110.7   .....   110.0   .....   100.4  *ELIM*
  SINGLE 1138 : 60196 CHI    7 - 60920 LINDSTM7 CKT: C   .....   110.7   .....   110.0   .....   100.4  *ELIM*
  SINGLE 1695 : 61952 S FARIB5 - 61964 OWATNNA5 CKT: 1   .....   110.7   .....   110.0   .....   100.4  *ELIM*
  SINGLE 2198 : 65009 WAYSIDE4 - 66484 NUNDRWD4 CKT: 1   .....   110.7   .....   110.0   .....   100.4  *ELIM*
  SINGLE 2297 : 66303 SIOUXC1T - 66564 SIOUXCY3 CKT: 1   .....   110.7   .....   110.0   .....   100.4  *ELIM*
  SINGLE 2310 : 66398 VFODNES4 - 66526 UTICAJC4 CKT: 1   .....   110.7   .....   110.0   .....   100.4  *ELIM*
  SINGLE 2435 : 66499 L3HAWDN8 - 66574 SIOUXCY8 CKT: 1   .....   110.5   .....   110.0   .....   100.3  *ELIM*
  SINGLE 2492 : 66523 SIOUXFL4 - 66578 PAHOJA 4 CKT: 1   .....   110.6   .....   110.0   .....    99.5  *ELIM*
  SINGLE 2718 : 34017 CGORDO_5 - 34414 CGORDO1G CKT: 1   .....   110.6   .....   110.0   .....   100.4  *ELIM*
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 SINGLE 3186 : 60920 LINDSTM7 - 62276 SHAFER 7 CKT: C   .....   110.7   .....   110.0   .....   100.4  *ELIM*
 SINGLE 3551 : 66565 SIOUXCY4 - 64994 TWIN CH4 CKT: 1   .....   110.7   .....   110.0   .....   100.4  *ELIM*
 SINGLE 3561 : 66593 J4IDAGR8 - 63893 LT SX  8 CKT: 1   .....   110.7   .....   110.0   .....   100.4  *ELIM*
 SINGLE 3595 : 67133 SIDNEY 3 - 64878 KEYSTON3 CKT: 1   .....   110.7   .....   110.0   .....   100.4  *ELIM*
 KOL-CNC/TER3: ** MULTIPLE CONTINGENCY **               .....   110.7   .....   110.0   .....   100.4  *ELIM*
             : 60221 KOLMNLK3 - 60202 COON CK3 CKT: 1
             : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
 ASK-CHI/KOL3: ** MULTIPLE CONTINGENCY **               .....   110.7   .....   110.0   .....   100.4  *ELIM*
             : 60186 AS KING3 - 60199 CHIS CO3 CKT: 1
             : 60186 AS KING3 - 60221 KOLMNLK3 CKT: 1
 HYL-BLL/DLK7: ** MULTIPLE CONTINGENCY **               .....   110.7   .....   110.0   .....   100.4  *ELIM*
             : 60215 HYLNDLK7 - 60193 BLUE LK7 CKT: 1
             : 60215 HYLNDLK7 - 60261 DEANLAK7 CKT: 1
 BYN-WOW/KAN5: ** MULTIPLE CONTINGENCY **               .....   110.6   .....   110.0   .....   100.4  *ELIM*
             : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1
             : 61161 BYRON  8 - 60799 KASSON 8 CKT: 1
 RRK-BCK/MAX7: ** MULTIPLE CONTINGENCY **               .....   110.7   .....   110.0   .....   100.4  *ELIM*
             : 60238 REDROCK7 - 60266 BATTCRK7 CKT: P
             : 60238 REDROCK7 - 60336 NSSJCT 7 CKT: 1
 MOL-RIV/CNC7: ** MULTIPLE CONTINGENCY **               .....   110.7   .....   110.0   .....   100.4  *ELIM*
             : 60229 MOORELK7 - 60203 COON CK7 CKT: 1
             : 60229 MOORELK7 - 60240 RIVRSID7 CKT: 1
 WLR-ASK/PNL7: ** MULTIPLE CONTINGENCY **               .....   110.7   .....   110.0   .....   100.4  *ELIM*
             : 60325 WILOWRV7 - 60187 AS KING7 CKT: 1
             : 60325 WILOWRV7 - 60313 PINE LK7 CKT: 1
 525      1  : ** MULTIPLE CONTINGENCY **               .....   110.7   .....   110.0   .....   100.4  *ELIM*
             : 60117 CHERRYC7 - 60132 WSX FLS7 CKT: 1
             : 60129 SPLT RK7 - 60132 WSX FLS7 CKT: 1
 695         : ** MULTIPLE CONTINGENCY **               .....   110.7   .....   110.0   .....   100.4  *ELIM*
             : 62925 DICKNSN7 - 62926 DCKSNSS7 CKT: 1
             : 62926 DCKSNSS7 - 60155 PULASKI7 CKT: 1
             : 60153 MNTCELO7 - 60155 PULASKI7 CKT: 1
 885         : ** MULTIPLE CONTINGENCY **               .....   110.6   .....   110.0   .....   100.4  *ELIM*
             : 69507 SENECA 5 - 69511 BELLCTR5 CKT: 1
             : 69507 SENECA 5 - 69523 GENOA  5 CKT: 1
 SINGLE 2772 : 34091 ARNOLD 5 - 34090 ARNOLD1G CKT: 1   .....   110.6   .....   110.0   .....   100.4  *ELIM*
 SINGLE 2818 : 34189 OTTUMWA5 - 34146 OTTUMW1G CKT: 1   .....   110.6   .....   110.0   .....   100.4  *ELIM*

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 101) 66751 CENTER 4 - 66749 CENTER1G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 BASE CASE   : **       BASE CASE      **               260.0   260.0   256.0   256.0   101.6   101.6     0.0
 050    2    : ** MULTIPLE CONTINGENCY **               249.2   .....   256.0   .....    97.4   .....   *NEW*
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
 SINGLE 3587 : 66791 CENTER 3 - 66756 SQBUTTE4 CKT: 1   243.4   243.4   256.0   256.0    95.1    95.1     0.0
 SINGLE 2587 : 66791 CENTER 3 - 67316 COYOTE 3 CKT: 1   241.5   241.4   256.0   256.0    94.3    94.3     0.0
 SINGLE 3574 : 66751 CENTER 4 - 66756 SQBUTTE4 CKT: 1   240.5   240.5   256.0   256.0    93.9    93.9     0.0

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 102) 67105 LELANDO3 - 67111 LELAN32G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 2482 : 66514 HURON  4 - 67205 BRDLAND4 CKT: 1   484.7   484.7   495.0   495.0    97.9    97.9     0.0
 SINGLE 2595 : 67101 ANTELOP3 - 67120 HURON  3 CKT: 1   484.7   484.7   495.0   495.0    97.9    97.9     0.0
 SINGLE 2613 : 67120 HURON  3 - 67204 BRDLNDTY CKT: 1   484.7   484.7   495.0   495.0    97.9    97.9     0.0
 SINGLE 2635 : 67204 BRDLNDTY - 67205 BRDLAND4 CKT: 1   484.7   484.7   495.0   495.0    97.9    97.9     0.0
 SINGLE 2354 : 66426 BISMARK4 - 67338 GLENHAM4 CKT: 1   459.7   459.6   495.0   495.0    92.9    92.9     0.0
 SINGLE 3452 : 63336 AUDUBON4 - 63053 HUBBARD4 CKT: 1   453.3   .....   495.0   .....    91.6   .....   *NEW*
 SINGLE 2189 : 63325 BROWNSV4 - 63327 HANKSON4 CKT: 1   450.4   450.4   495.0   495.0    91.0    91.0     0.0
 SINGLE 2187 : 63314 BIGSTON4 - 63325 BROWNSV4 CKT: 1   450.0   .....   495.0   .....    90.9   .....   *NEW*
 SINGLE 3400 : 63049 STANTON4 - 63002 STANT41G CKT: 1   446.2   .....   495.0   .....    90.1   .....   *NEW*
 SINGLE 53   : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1   .....   453.2   .....   495.0   .....    91.6  *ELIM*
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 SINGLE 2195 : 63362 OAKES  4 - 63363 FORMAN 4 CKT: 1   .....   453.5   .....   495.0   .....    91.6  *ELIM*
 SINGLE 2196 : 63362 OAKES  4 - 67326 ELLENDL4 CKT: 1   .....   453.9   .....   495.0   .....    91.7  *ELIM*
 *** ONLY THE FIRST  100 ACCC #2 CONTINGENCIES SCREENED FOR THIS LIMITER ***

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 103) 67106 LELANDO4 - 67110 LELAN41G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 BASE CASE   : **       BASE CASE      **               249.1   249.1   256.0   256.0    97.3    97.3     0.0
 SINGLE 2196 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1   247.5   247.4   256.0   256.0    96.7    96.6     0.1
 SINGLE 2398 : 66456 WASHBRN4 - 67106 LELANDO4 CKT: 1   247.2   247.2   256.0   256.0    96.6    96.6     0.0
 SINGLE 2195 : 63358 BUFFALO3 - 63369 JAMESTN3 CKT: 1   247.0   246.9   256.0   256.0    96.5    96.5     0.0
 SINGLE 2451 : 66506 FTTHOMP3 - 67105 LELANDO3 CKT: 1   246.9   246.9   256.0   256.0    96.4    96.4     0.0
 SINGLE 2600 : 67104 TIOGA4 4 - 67108 LOGAN  4 CKT: 1   246.5   246.5   256.0   256.0    96.3    96.3     0.0
 SINGLE 2199 : 63369 JAMESTN3 - 66791 CENTER 3 CKT: 1   245.1   245.1   256.0   256.0    95.7    95.8    -0.1
 SINGLE 2613 : 67120 HURON  3 - 67204 BRDLNDTY CKT: 1   244.8   244.5   256.0   256.0    95.6    95.5     0.1
 SINGLE 2635 : 67204 BRDLNDTY - 67205 BRDLAND4 CKT: 1   244.8   244.5   256.0   256.0    95.6    95.5     0.1
 SINGLE 2595 : 67101 ANTELOP3 - 67120 HURON  3 CKT: 1   244.8   244.5   256.0   256.0    95.6    95.5     0.1
 SINGLE 2482 : 66514 HURON  4 - 67205 BRDLAND4 CKT: 1   244.8   244.5   256.0   256.0    95.6    95.5     0.1
 SINGLE 2607 : 67106 LELANDO4 - 67201 LELND1TY CKT: 1   238.5   238.5   256.0   256.0    93.1    93.2    -0.1

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 104) 67316 COYOTE 3 - 67315 COYOTE1G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1014 : 60133 SHEYNNE4 - 66435 FARGO  4 CKT: 1   457.3   457.1   428.0   428.0   106.8   106.8     0.0
 SINGLE 2451 : 66506 FTTHOMP3 - 67105 LELANDO3 CKT: 1   457.1   457.0   428.0   428.0   106.8   106.8     0.0
 SINGLE 2482 : 66514 HURON  4 - 67205 BRDLAND4 CKT: 1   456.6   456.4   428.0   428.0   106.7   106.6     0.1
 SINGLE 2595 : 67101 ANTELOP3 - 67120 HURON  3 CKT: 1   456.6   456.4   428.0   428.0   106.7   106.6     0.1
 SINGLE 2602 : 67105 LELANDO3 - 67160 GROTON 3 CKT: 1   456.7   456.6   428.0   428.0   106.7   106.7     0.0
 SINGLE 2613 : 67120 HURON  3 - 67204 BRDLNDTY CKT: 1   456.6   456.4   428.0   428.0   106.7   106.6     0.1
 SINGLE 2635 : 67204 BRDLNDTY - 67205 BRDLAND4 CKT: 1   456.6   456.4   428.0   428.0   106.7   106.6     0.1
 SINGLE 2190 : 63327 HANKSON4 - 63329 WAHPETN4 CKT: 1   456.4   456.3   428.0   428.0   106.6   106.6     0.0
 SINGLE 2572 : 66751 CENTER 4 - 67342 HESKETT4 CKT: 1   456.2   456.1   428.0   428.0   106.6   106.6     0.0
 SINGLE 2368 : 66435 FARGO  4 - 66444 JAMESTN4 CKT: 1   456.0   455.8   428.0   428.0   106.5   106.5     0.0
 SINGLE 2369 : 66435 FARGO  4 - 66444 JAMESTN4 CKT: 2   455.9   455.8   428.0   428.0   106.5   106.5     0.0
 SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   455.8   455.5   428.0   428.0   106.5   106.4     0.1
 SINGLE 2402 : 66470 BISON  4 - 67347 HETINGR4 CKT: 1   455.5   455.3   428.0   428.0   106.4   106.4     0.0
 SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   455.5   455.3   428.0   428.0   106.4   106.4     0.0
 SINGLE 2381 : 66441 GARRISN4 - 66444 JAMESTN4 CKT: 1   455.3   455.2   428.0   428.0   106.4   106.4     0.0
 SINGLE 2401 : 66470 BISON  4 - 66497 MAURINE4 CKT: 1   455.3   455.1   428.0   428.0   106.4   106.3     0.1
 SINGLE 2924 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1   455.2   455.2   428.0   428.0   106.4   106.4     0.0
 SINGLE 2047 : 63047 RAMSEY 4 - 63056 BALTA  4 CKT: 1   455.1   455.0   428.0   428.0   106.3   106.3     0.0
 SINGLE 2191 : 63327 HANKSON4 - 63363 FORMAN 4 CKT: 1   454.8   454.7   428.0   428.0   106.3   106.2     0.1
 SINGLE 2353 : 66426 BISMARK4 - 67328 WEBER  4 CKT: 1   455.0   454.9   428.0   428.0   106.3   106.3     0.0
 SINGLE 2675 : 67342 HESKETT4 - 67394 WISHEK 4 CKT: 1   455.2   455.0   428.0   428.0   106.3   106.3     0.0
 SINGLE 2049 : 63047 RAMSEY 4 - 66755 PRAIRIE4 CKT: 1   455.0   454.9   428.0   428.0   106.3   106.3     0.0
 SINGLE 3521 : 66506 FTTHOMP3 - 66571 GR ISLD3 CKT: 1   454.9   454.7   428.0   428.0   106.3   106.2     0.1
 SINGLE 2917 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1   454.9   454.8   428.0   428.0   106.3   106.3     0.0
 SINGLE 2922 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1   455.0   454.8   428.0   428.0   106.3   106.3     0.0
 SINGLE 2923 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1   454.9   454.8   428.0   428.0   106.3   106.3     0.0
 SINGLE 3449 : 63314 BIGSTON4 - 63315 BIGSTN1G CKT: 1   454.9   454.8   428.0   428.0   106.3   106.3     0.0
 SINGLE 2501 : 66530 WATERTN4 - 66550 GRANITF4 CKT: 1   454.5   454.3   428.0   428.0   106.2   106.2     0.0
 SINGLE 2354 : 66426 BISMARK4 - 67338 GLENHAM4 CKT: 1   454.6   454.5   428.0   428.0   106.2   106.2     0.0
 SINGLE 2577 : 66755 PRAIRIE4 - 66758 WINGER 4 CKT: 1   454.6   454.5   428.0   428.0   106.2   106.2     0.0
 SINGLE 2380 : 66441 GARRISN4 - 66442 GARRISN7 CKT: 1   454.7   454.6   428.0   428.0   106.2   106.2     0.0
 SINGLE 2351 : 66426 BISMARK4 - 66444 JAMESTN4 CKT: 1   454.7   454.6   428.0   428.0   106.2   106.2     0.0
 SINGLE 2389 : 66444 JAMESTN4 - 67328 WEBER  4 CKT: 1   454.5   454.3   428.0   428.0   106.2   106.2     0.0
 SINGLE 2500 : 66529 WATERTN3 - 67160 GROTON 3 CKT: 1   454.7   454.6   428.0   428.0   106.2   106.2     0.0
 BASE CASE   : **       BASE CASE      **               453.3   453.2   428.0   428.0   105.9   105.9     0.0
 SINGLE 3596 : 67131 LARAMIE3 - 67118 LARAM31G CKT: 1   452.3   452.2   428.0   428.0   105.7   105.6     0.1
 SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1   452.2   452.1   428.0   428.0   105.7   105.6     0.1
 SINGLE 2371 : 66435 FARGO  4 - 66553 MOORHED4 CKT: 1   452.0   451.8   428.0   428.0   105.6   105.6     0.0
 SINGLE 1022 : 60136 MAPLE R7 - 66754 MAPLE R4 CKT: 1   452.0   451.9   428.0   428.0   105.6   105.6     0.0
 SINGLE 3403 : 63052 INMAN  4 - 61611 WINGRIV4 CKT: 1   451.9   451.8   428.0   428.0   105.6   105.6     0.0
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SINGLE 3504	: 66441 GARRISN4 - 66457 GARISN1G CKT: 1	451.9	451.8	428.0	428.0	105.6	105.6	0.0
SINGLE 3505	: 66441 GARRISN4 - 66458 GARISN2G CKT: 1	451.9	451.8	428.0	428.0	105.6	105.6	0.0
SINGLE 3506	: 66441 GARRISN4 - 66459 GARISN3G CKT: 1	451.9	451.8	428.0	428.0	105.6	105.6	0.0
SINGLE 2192	: 63329 WAHPETN4 - 63331 FERGSFL4 CKT: 1	452.2	452.0	428.0	428.0	105.6	105.6	0.0
MAPLER XFR1	: ** MULTIPLE CONTINGENCY **	451.8	451.7	428.0	428.0	105.6	105.5	0.1
	: 63189 MAPLER1Y - 63359 MAPLER19 CKT: 1							
	: 63189 MAPLER1Y - 66754 MAPLE R4 CKT: 1							
	: 63189 MAPLER1Y - 66792 MAPLE R3 CKT: 1							
MAPLER XFR2	: ** MULTIPLE CONTINGENCY **	451.8	451.7	428.0	428.0	105.6	105.5	0.1
	: 63190 MAPLER2Y - 63360 MAPLER29 CKT: 1							
	: 63190 MAPLER2Y - 66754 MAPLE R4 CKT: 1							
	: 63190 MAPLER2Y - 66792 MAPLE R3 CKT: 1							
SINGLE 2064	: 63189 MAPLER1Y - 66754 MAPLE R4 CKT: 1	451.8	451.7	428.0	428.0	105.6	105.5	0.1
SINGLE 2065	: 63189 MAPLER1Y - 66792 MAPLE R3 CKT: 1	451.8	451.7	428.0	428.0	105.6	105.5	0.1
SINGLE 2596	: 67101 ANTELOP3 - 67183 CHAR.CK3 CKT: 1	451.9	451.8	428.0	428.0	105.6	105.6	0.0
SINGLE 3362	: 61950 BYRON 3 - 63032 PL VLLY3 CKT: 1	452.1	452.0	428.0	428.0	105.6	105.6	0.0
SINGLE 2066	: 63190 MAPLER2Y - 66754 MAPLE R4 CKT: 1	451.8	451.7	428.0	428.0	105.6	105.5	0.1
SINGLE 2067	: 63190 MAPLER2Y - 66792 MAPLE R3 CKT: 1	451.8	451.7	428.0	428.0	105.6	105.5	0.1
SINGLE 951	: 60105 PR ISLD3 - 61950 BYRON 3 CKT: 1	451.8	.....	428.0	.....	105.6	.....	*NEW*
050 1	: ** MULTIPLE CONTINGENCY **	451.8	451.7	428.0	428.0	105.6	105.5	0.1
	: 60186 AS KING3 - 60304 EAU CL 3 CKT: 1							
	: 60304 EAU CL 3 - 39244 ARP 345 CKT: 1							
	: 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1							
	: 39901 COC DPC - 38342 COC 69 CKT: 1							
	: 38333 HLT 69 - 68821 MAUSTON CKT: 1							
825	: ** MULTIPLE CONTINGENCY **	452.2	452.1	428.0	428.0	105.6	105.6	0.0
	: 63032 PL VLLY3 - 60102 ADAMS 3 CKT: 1							
	: 60102 ADAMS 3 - 34014 ADAMS 5 CKT: 1							
	: 60102 ADAMS 3 - 34018 HAZLTON3 CKT: 1							
SINGLE 56	: 34018 HAZLTON3 - 60102 ADAMS 3 CKT: 1	452.2	452.1	428.0	428.0	105.6	105.6	0.0
050 3	: ** MULTIPLE CONTINGENCY **	452.1	452.0	428.0	428.0	105.6	105.6	0.0
	: 60304 EAU CL 3 - 39244 ARP 345 CKT: 1							
	: 39901 COC DPC - 38342 COC 69 CKT: 1							
	: 38333 HLT 69 - 68821 MAUSTON CKT: 1							
ASK-RRK/ECL3	: ** MULTIPLE CONTINGENCY **	451.7	451.6	428.0	428.0	105.5	105.5	0.0
	: 60186 AS KING3 - 60236 REDROCK3 CKT: 1							
	: 60186 AS KING3 - 60304 EAU CL 3 CKT: 1							
	: 60304 EAU CL 3 - 39244 ARP 345 CKT: 1							
SINGLE 3508	: 66442 GARRISN7 - 66461 GARISN5G CKT: 1	451.4	451.2	428.0	428.0	105.5	105.4	0.1
PRI-BYN/RRK3	: ** MULTIPLE CONTINGENCY **	451.7	451.6	428.0	428.0	105.5	105.5	0.0
	: 60105 PR ISLD3 - 61950 BYRON 3 CKT: 1							
	: 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2							
SINGLE 3507	: 66442 GARRISN7 - 66460 GARISN4G CKT: 1	451.4	451.2	428.0	428.0	105.5	105.4	0.1
SINGLE 1015	: 60133 SHEYNNE4 - 66754 MAPLE R4 CKT: 1	451.1	451.0	428.0	428.0	105.4	105.4	0.0
SINGLE 2193	: 63329 WAHPETN4 - 66754 MAPLE R4 CKT: 1	451.0	450.9	428.0	428.0	105.4	105.3	0.1
SINGLE 3452	: 63336 AUDUBON4 - 63053 HUBBARD4 CKT: 1	450.6	450.5	428.0	428.0	105.3	105.3	0.0
SINGLE 1013	: 60133 SHEYNNE4 - 63336 AUDUBON4 CKT: 1	450.5	450.4	428.0	428.0	105.3	105.2	0.1
SINGLE 3593	: 67106 LELANDO4 - 67110 LELAN41G CKT: 1	450.1	450.0	428.0	428.0	105.2	105.1	0.1
SINGLE 2385	: 66442 GARRISN7 - 67308 BEULAH 7 CKT: 1	450.4	450.3	428.0	428.0	105.2	105.2	0.0
SINGLE 2655	: 67308 BEULAH 7 - 67318 COYOTE 7 CKT: 1	449.7	449.6	428.0	428.0	105.1	105.0	0.1
SINGLE 2659	: 67316 COYOTE 3 - 67318 COYOTE 7 CKT: 1	449.8	449.7	428.0	428.0	105.1	105.1	0.0
SINGLE 3400	: 63049 STANTON4 - 63002 STANT41G CKT: 1	449.9	449.7	428.0	428.0	105.1	105.1	0.0
SINGLE 3574	: 66751 CENTER 4 - 66756 SQBUTTE4 CKT: 1	449.0	448.9	428.0	428.0	104.9	104.9	0.0
SINGLE 2199	: 63369 JAMESTN3 - 66791 CENTER 3 CKT: 1	448.2	448.2	428.0	428.0	104.7	104.7	0.0
SINGLE 3589	: 67101 ANTELOP3 - 67103 ANTEL31G CKT: 1	448.3	448.2	428.0	428.0	104.7	104.7	0.0
SINGLE 3590	: 67101 ANTELOP3 - 67107 ANTEL32G CKT: 1	448.3	448.2	428.0	428.0	104.7	104.7	0.0
SINGLE 3592	: 67105 LELANDO3 - 67111 LELAN32G CKT: 1	447.9	447.8	428.0	428.0	104.7	104.6	0.1
SINGLE 2587	: 66791 CENTER 3 - 67316 COYOTE 3 CKT: 1	446.7	446.7	428.0	428.0	104.4	104.4	0.0
SINGLE 3573	: 66751 CENTER 4 - 66749 CENTER1G CKT: 1	446.6	446.5	428.0	428.0	104.3	104.3	0.0
SINGLE 3398	: 63041 COAL CR4 - 63000 COAL 41G CKT: 1	445.8	445.7	428.0	428.0	104.2	104.1	0.1
SINGLE 3399	: 63041 COAL CR4 - 63001 COAL 42G CKT: 1	445.8	445.7	428.0	428.0	104.2	104.1	0.1
SINGLE 3587	: 66791 CENTER 3 - 66756 SQBUTTE4 CKT: 1	438.4	438.3	428.0	428.0	102.4	102.4	0.0
SINGLE 2195	: 63358 BUFFALO3 - 63369 JAMESTN3 CKT: 1	433.8	433.8	428.0	428.0	101.4	101.4	0.0

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 SINGLE 2196 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1   430.6   430.6   428.0   428.0   100.6   100.6     0.0
 SINGLE 2185 : 63314 BIGSTON4 - 63325 BROWNSV4 CKT: 1   .....   454.4   .....   428.0   .....   106.2  *ELIM*
 SINGLE 2195 : 63362 OAKES  4 - 63363 FORMAN 4 CKT: 1   .....   454.4   .....   428.0   .....   106.2  *ELIM*
 SINGLE 2196 : 63362 OAKES  4 - 67326 ELLENDL4 CKT: 1   .....   454.6   .....   428.0   .....   106.2  *ELIM*
 SINGLE 2895 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1   .....   454.8   .....   428.0   .....   106.3  *ELIM*
 SINGLE 2896 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1   .....   454.8   .....   428.0   .....   106.3  *ELIM*
 SINGLE 2932 : 60186 AS KING3 - 60006 KING 31G CKT: 1   .....   454.7   .....   428.0   .....   106.2  *ELIM*
 050    2    : ** MULTIPLE CONTINGENCY **               .....   451.8   .....   428.0   .....   105.6  *ELIM*
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1

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 105) *** NOT CONVERGED ***                            PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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 SINGLE 2    :  6001 YANKEE 7 - 66337 WHITE2 7 CKT: 1     0.0     0.0     0.0     0.0     0.0     0.0     0.0
 SINGLE 1291 : 60286 NOBLES 3 - 60287 NOBLES 7 CKT: C     0.0     0.0     0.0     0.0     0.0     0.0     0.0
 SINGLE 2309 : 66337 WHITE2 7 - 66537 WHITE  3 CKT: P     0.0     0.0     0.0     0.0     0.0     0.0     0.0

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 106) 34137 TRIBOJI5 - 66563 SPENCER5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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 SINGLE 2704 : 34006 LAKEFLD3 - 63875 RAUN   3 CKT: 1   219.7   .....   195.0   .....   110.0   .....   *NEW*
 PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **               207.3   .....   195.0   .....   104.0   .....   *NEW*
             : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
             : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
 SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1   206.8   .....   195.0   .....   103.7   .....   *NEW*
 050    1    : ** MULTIPLE CONTINGENCY **               204.2   .....   195.0   .....   102.2   .....   *NEW*
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
 050    2    : ** MULTIPLE CONTINGENCY **               203.2   .....   195.0   .....   101.5   .....   *NEW*
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
 825         : ** MULTIPLE CONTINGENCY **               202.4   .....   195.0   .....   101.2   .....   *NEW*
             : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
             : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
             : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1
 SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1   201.2   .....   195.0   .....   100.8   .....   *NEW*
 ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **               200.9   .....   195.0   .....   100.5   .....   *NEW*
             : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
 050    3    : ** MULTIPLE CONTINGENCY **               197.1   .....   195.0   .....    98.6   .....   *NEW*
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
 SINGLE 2702 :  6450 PRIMGHAR -  6460 GI0304F1 CKT: 1   196.2   .....   195.0   .....    98.1   .....   *NEW*
 SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1   195.5   .....   195.0   .....    97.8   .....   *NEW*
 SINGLE 2894 : 60102 ADAMS  3 - 63032 PL VLLY3 CKT: 1   191.9   .....   195.0   .....    96.1   .....   *NEW*
 LAKF-FOX DBL: ** MULTIPLE CONTINGENCY **               191.9   .....   195.0   .....    95.8   .....   *NEW*
             : 34007 LAKEFLD5 - 34008 FOX LK 5 CKT: 1
             : 34007 LAKEFLD5 - 34008 FOX LK 5 CKT: 2
 SINGLE 2804 : 34136 TRIBOJI8 - 63732 MILFRDJ8 CKT: 1   191.7   .....   195.0   .....    95.7   .....   *NEW*
 SINGLE 2494 : 66523 SIOUXFL4 - 66578 PAHOJA 4 CKT: 1   189.0   .....   195.0   .....    94.4   .....   *NEW*
 SINGLE 2515 : 66562 EAGLE  4 - 66578 PAHOJA 4 CKT: 1   188.4   .....   195.0   .....    94.1   .....   *NEW*
 SINGLE 8    :  6450 PRIMGHAR - 66563 SPENCER5 CKT: 1   185.4   .....   195.0   .....    92.5   .....   *NEW*
 SINGLE 3521 : 66506 FTTHOMP3 - 66571 GR ISLD3 CKT: 1   184.8   .....   195.0   .....    92.4   .....   *NEW*
 SINGLE 2717 : 34016 EMERY  5 - 34912 EMERYST1 CKT: 1   183.4   .....   195.0   .....    91.5   .....   *NEW*
 BLL-PRI/IVH3: ** MULTIPLE CONTINGENCY **               182.7   .....   195.0   .....    91.3   .....   *NEW*
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            : 60192 BLUE LK3 - 60105 PR ISLD3 CKT: 1
            : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
700     1   : ** MULTIPLE CONTINGENCY **                181.2   .....   195.0   .....    90.5   .....   *NEW*
            : 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1
            : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
            : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1
BYN-WOW/KAN5: ** MULTIPLE CONTINGENCY **                180.4   .....   195.0   .....    90.1   .....   *NEW*
            : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1
            : 61161 BYRON  8 - 60799 KASSON 8 CKT: 1
BASE CASE   : **       BASE CASE      **                .....   197.0   .....   195.0   .....    98.5  *ELIM*
SINGLE 5    :  6012 G253INT  - 34003 MAGNLIA5 CKT: 1     .....   189.5   .....   195.0   .....    94.7  *ELIM*
SINGLE 6    :  6012 G253INT  - 60128 SPLT RK5 CKT: 1     .....   191.4   .....   195.0   .....    95.6  *ELIM*
SINGLE 8    : 34003 MAGNLIA5 - 34004 ELK    5 CKT: 1     .....   193.6   .....   195.0   .....    96.8  *ELIM*
SINGLE 9    : 34003 MAGNLIA5 - 34215 MAGNLIA8 CKT: 1     .....   194.8   .....   195.0   .....    97.4  *ELIM*
SINGLE 13   : 34005 HRN LK 5 - 34007 LAKEFLD5 CKT: 1     .....   199.1   .....   195.0   .....    99.5  *ELIM*
SINGLE 16   : 34006 LAKEFLD3 - 34007 LAKEFLD5 CKT: 1     .....   192.2   .....   195.0   .....    96.0  *ELIM*
SINGLE 17   : 34006 LAKEFLD3 - 34007 LAKEFLD5 CKT: 2     .....   192.2   .....   195.0   .....    96.0  *ELIM*
SINGLE 20   : 34007 LAKEFLD5 - 34008 FOX LK 5 CKT: 1     .....   199.3   .....   195.0   .....    99.7  *ELIM*
SINGLE 21   : 34007 LAKEFLD5 - 34008 FOX LK 5 CKT: 2     .....   199.6   .....   195.0   .....    99.7  *ELIM*
SINGLE 33   : 34010 HAYWARD5 - 34015 LIME CK5 CKT: 1     .....   194.5   .....   195.0   .....    97.2  *ELIM*
SINGLE 40   : 34014 ADAMS  5 - 34015 LIME CK5 CKT: 1     .....   192.5   .....   195.0   .....    96.2  *ELIM*
SINGLE 44   : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1     .....   184.3   .....   195.0   .....    92.0  *ELIM*
SINGLE 47   : 34016 EMERY  5 - 34017 CGORDO_5 CKT: 1     .....   188.5   .....   195.0   .....    94.3  *ELIM*
SINGLE 50   : 34017 CGORDO_5 - 34139 HANCOCK5 CKT: 1     .....   194.7   .....   195.0   .....    97.5  *ELIM*
SINGLE 60   : 34021 LANSINGW - 34022 LANSING5 CKT: 1     .....   198.6   .....   195.0   .....    99.3  *ELIM*
SINGLE 107  : 34047 ANTA TP5 - 66561 DENISON5 CKT: 1     .....   195.9   .....   195.0   .....    97.9  *ELIM*
SINGLE 112  : 34051 TOLEDO 7 - 34066 M-TOWN 7 CKT: 1     .....   196.0   .....   195.0   .....    97.9  *ELIM*
SINGLE 118  : 34054 GR JCT 5 - 34058 PERRY  5 CKT: 1     .....   195.2   .....   195.0   .....    97.6  *ELIM*
SINGLE 153  : 34072 FRNKLIN7 - 34077 IA FALS7 CKT: 1     .....   195.6   .....   195.0   .....    97.8  *ELIM*
SINGLE 154  : 34072 FRNKLIN7 - 34571 FRNKLN_Y CKT: 1     .....   195.6   .....   195.0   .....    97.8  *ELIM*
SINGLE 161  : 34079 TRAER  5 - 34087 DYSART 5 CKT: 1     .....   195.4   .....   195.0   .....    97.7  *ELIM*
SINGLE 171  : 34084 PARNEL 5 - 34185 POWESHK5 CKT: 1     .....   195.9   .....   195.0   .....    97.9  *ELIM*
SINGLE 298  : 34185 POWESHK5 - 34191 REASNOR5 CKT: 1     .....   195.9   .....   195.0   .....    97.9  *ELIM*
SINGLE 355  : 34215 MAGNLIA8 - 34269 ADRIANT8 CKT: 1     .....   194.9   .....   195.0   .....    97.4  *ELIM*
SINGLE 356  : 34216 ADRIANM8 - 34269 ADRIANT8 CKT: 1     .....   195.3   .....   195.0   .....    97.6  *ELIM*
SINGLE 357  : 34216 ADRIANM8 - 34273 RUSHMRT8 CKT: 1     .....   194.7   .....   195.0   .....    97.4  *ELIM*
SINGLE 358  : 34217 WRTHNGT8 - 34218 WORTHMN8 CKT: 1     .....   199.0   .....   195.0   .....    99.5  *ELIM*
SINGLE 359  : 34217 WRTHNGT8 - 62722 WRT WTP8 CKT: 1     .....   199.0   .....   195.0   .....    99.5  *ELIM*
SINGLE 366  : 34223 ELK    8 - 62722 WRT WTP8 CKT: 1     .....   199.0   .....   195.0   .....    99.5  *ELIM*
SINGLE 367  : 34223 ELK    8 - 62725 WRT ETP8 CKT: 1     .....   198.7   .....   195.0   .....    99.3  *ELIM*
SINGLE 369  : 34225 HERONLK8 - 62355 MILOMA 8 CKT: 1     .....   198.2   .....   195.0   .....    99.1  *ELIM*
SINGLE 384  : 34233 WINDMMU8 - 34238 WINDMSW8 CKT: 1     .....   198.1   .....   195.0   .....    99.0  *ELIM*
SINGLE 397  : 34245 WRTHMN28 - 62721 WRT TP 8 CKT: 1     .....   198.4   .....   195.0   .....    99.1  *ELIM*
SINGLE 427  : 34265 WALTERS8 - 34285 ALDEN J8 CKT: 1     .....   198.6   .....   195.0   .....    99.3  *ELIM*
SINGLE 435  : 34273 RUSHMRT8 - 62718 RUSHMOR8 CKT: 1     .....   194.7   .....   195.0   .....    97.4  *ELIM*
SINGLE 453  : 34285 ALDEN J8 - 34286 ALEAWST8 CKT: 1     .....   198.5   .....   195.0   .....    99.2  *ELIM*
SINGLE 772  : 34680 OSCELCT8 - 34892 ALLNDRF  CKT: 1     .....   195.6   .....   195.0   .....    97.8  *ELIM*
SINGLE 773  : 34680 OSCELCT8 - 34906 FLYCLD 8 CKT: 1     .....   195.7   .....   195.0   .....    97.8  *ELIM*
SINGLE 936  : 34893 SIBLEY   - 62718 RUSHMOR8 CKT: 1     .....   195.4   .....   195.0   .....    97.7  *ELIM*
SINGLE 938  : 60015 ANSON CG - 60129 SPLT RK7 CKT: 1     .....   191.1   .....   195.0   .....    95.5  *ELIM*
SINGLE 939  : 60015 ANSON CG - 61475 ANS TR2Y CKT: 2     .....   191.1   .....   195.0   .....    95.5  *ELIM*
SINGLE 946  : 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1     .....   198.2   .....   195.0   .....    99.1  *ELIM*
SINGLE 950  : 60107 W FARIB7 - 60265 LOON TP7 CKT: C     .....   200.6   .....   195.0   .....   100.3  *ELIM*
SINGLE 953  : 60107 W FARIB7 - 61952 S FARIB5 CKT: 1     .....   199.7   .....   195.0   .....    99.9  *ELIM*
SINGLE 962  : 60110 WILMART7 - 60194 CARVRCO7 CKT: 1     .....   199.0   .....   195.0   .....    99.5  *ELIM*
SINGLE 972  : 60114 ELM CRK3 - 60151 MNTCELO3 CKT: 1     .....   194.6   .....   195.0   .....    97.3  *ELIM*
SINGLE 973  : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1     .....   195.7   .....   195.0   .....    97.8  *ELIM*
SINGLE 990  : 60122 LAWRENC7 - 60834 LAWRENC8 CKT: 1     .....   198.7   .....   195.0   .....    99.4  *ELIM*
SINGLE 991  : 60122 LAWRENC7 - 66524 SIOUXFL7 CKT: 1     .....   198.6   .....   195.0   .....    99.3  *ELIM*
SINGLE 999  : 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1     .....   189.4   .....   195.0   .....    94.5  *ELIM*
SINGLE 1002 : 60127 SPLT RK4 - 60129 SPLT RK7 CKT: 1     .....   199.4   .....   195.0   .....    99.7  *ELIM*
SINGLE 1003 : 60127 SPLT RK4 - 66523 SIOUXFL4 CKT: 1     .....   199.4   .....   195.0   .....    99.7  *ELIM*
SINGLE 1004 : 60128 SPLT RK5 - 60129 SPLT RK7 CKT: 1     .....   191.3   .....   195.0   .....    95.6  *ELIM*
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 SINGLE 1006 : 60130 SPLTRTA3 - 66537 WHITE  3 CKT: 1   .....   189.4   .....   195.0   .....    94.5  *ELIM*
 SINGLE 1011 : 60133 SHEYNNE4 - 63336 AUDUBON4 CKT: 1   .....   195.5   .....   195.0   .....    97.8  *ELIM*
 SINGLE 1040 : 60145 FRANKLN7 - 61954 REDFLST7 CKT: P   .....   195.8   .....   195.0   .....    97.9  *ELIM*
 SINGLE 1041 : 60146 GRANCTY7 - 60161 STREGIS7 CKT: 1   .....   199.1   .....   195.0   .....    99.5  *ELIM*
 SINGLE 1051 : 60148 MINVALY7 - 61954 REDFLST7 CKT: P   .....   195.7   .....   195.0   .....    97.8  *ELIM*
 SINGLE 1054 : 60150 MNVLTAP4 - 66550 GRANITF4 CKT: 1   .....   195.8   .....   195.0   .....    97.9  *ELIM*
 SINGLE 1067 : 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C   .....   195.6   .....   195.0   .....    97.8  *ELIM*
 SINGLE 1116 : 60187 AS KING7 - 60325 WILOWRV7 CKT: 1   .....   198.2   .....   195.0   .....    99.1  *ELIM*
 SINGLE 1118 : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C   .....   195.9   .....   195.0   .....    98.0  *ELIM*
 SINGLE 1119 : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1   .....   195.9   .....   195.0   .....    98.0  *ELIM*
 SINGLE 1124 : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1   .....   199.9   .....   195.0   .....   100.0  *ELIM*
 SINGLE 1128 : 60193 BLUE LK7 - 61476 BLL TR5Y CKT: 5   .....   193.1   .....   195.0   .....    96.5  *ELIM*
 SINGLE 1129 : 60193 BLUE LK7 - 61477 BLL TR6Y CKT: 6   .....   193.0   .....   195.0   .....    96.4  *ELIM*
 SINGLE 1138 : 60196 CHI    7 - 60920 LINDSTM7 CKT: C   .....   198.2   .....   195.0   .....    99.1  *ELIM*
 SINGLE 1142 : 60199 CHIS CO3 - 60221 KOLMNLK3 CKT: 1   .....   195.9   .....   195.0   .....    97.9  *ELIM*
 SINGLE 1155 : 60202 COON CK3 - 63030 DICKNSN3 CKT: 1   .....   198.1   .....   195.0   .....    99.0  *ELIM*
 SINGLE 1195 : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1   .....   198.0   .....   195.0   .....    99.0  *ELIM*
 SINGLE 1218 : 60233 PARKERS3 - 60270 MPLEGV13 CKT: 1   .....   195.5   .....   195.0   .....    97.7  *ELIM*
 SINGLE 1234 : 60238 REDROCK7 - 60336 NSSJCT 7 CKT: 1   .....   199.7   .....   195.0   .....    99.8  *ELIM*
 SINGLE 1238 : 60239 ROGRSLK7 - 60278 LONEOK27 CKT: 2   .....   198.1   .....   195.0   .....    99.0  *ELIM*
 SINGLE 1239 : 60239 ROGRSLK7 - 60334 LONE OA7 CKT: 1   .....   198.1   .....   195.0   .....    99.0  *ELIM*
 SINGLE 1272 : 60264 LOON LK7 - 61976 LOON LK8 CKT: 1   .....   198.2   .....   195.0   .....    99.1  *ELIM*
 SINGLE 1275 : 60270 MPLEGV13 - 63030 DICKNSN3 CKT: 1   .....   195.5   .....   195.0   .....    97.7  *ELIM*
 SINGLE 1285 : 60284 WATOWAN7 - 60380 MARTINC7 CKT: P   .....   195.7   .....   195.0   .....    97.8  *ELIM*
 SINGLE 1286 : 60284 WATOWAN7 - 60934 WATOWAN8 CKT: P   .....   195.7   .....   195.0   .....    97.8  *ELIM*
 SINGLE 1290 : 60287 NOBLES 7 - 60369 FENTON 7 CKT: C   .....   190.9   .....   195.0   .....    95.3  *ELIM*
 SINGLE 1357 : 60331 LKFLDXL3 - 60380 MARTINC7 CKT: P   .....   195.7   .....   195.0   .....    97.8  *ELIM*
 SINGLE 1359 : 60336 NSSJCT 7 - 60337 NSSTAP 7 CKT: 1   .....   199.7   .....   195.0   .....    99.8  *ELIM*
 SINGLE 1360 : 60337 NSSTAP 7 - 60338 NSSTL  7 CKT: 1   .....   199.7   .....   195.0   .....    99.8  *ELIM*
 SINGLE 1363 : 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C   .....   195.6   .....   195.0   .....    97.8  *ELIM*
 SINGLE 1368 : 60362 CHANRMB7 - 60369 FENTON 7 CKT: C   .....   195.4   .....   195.0   .....    97.6  *ELIM*
 SINGLE 1374 : 60650 WILMART8 - 61155 JOHNSON8 CKT: 1   .....   198.7   .....   195.0   .....    99.3  *ELIM*

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 107) 34136 TRIBOJI8 - 34906 FLYCLD 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 2805 : 34137 TRIBOJI5 - 63897 G298SYS  CKT: 1    55.3    55.2    58.0    58.0    91.7    91.4     0.3
 SINGLE 1000 : 60126 SPLT RK3 - 60131 SPLTRTB3 CKT: 1   .....    54.4   .....    58.0   .....    90.2  *ELIM*
 SINGLE 1007 : 60131 SPLTRTB3 - 66564 SIOUXCY3 CKT: 1   .....    54.4   .....    58.0   .....    90.1  *ELIM*

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 108) 34004 ELK    5 - 34223 ELK    8 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 13   : 34004 ELK    5 - 34223 ELK    8 CKT: 1    40.9    40.9    30.0    30.0   136.4   136.4     0.0

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 109) 34004 ELK    5 - 34223 ELK    8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 14   : 34004 ELK    5 - 34223 ELK    8 CKT: 2    42.0    42.0    33.6    33.6   125.0   125.0     0.0

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 110) 60150 MNVLTAP4 - 63054 PANTHER4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   370.6   368.2   388.0   388.0   104.5   103.5     1.0
 500         : ** MULTIPLE CONTINGENCY **               373.8   371.9   388.0   388.0   103.0   102.3     0.7
             : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
             : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1
 SINGLE 1365 : 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C   366.0   363.9   388.0   388.0   100.8   100.0     0.8
 SINGLE 1069 : 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C   366.5   364.5   388.0   388.0   100.8   100.0     0.8
 SINGLE 2051 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1   366.0   363.9   388.0   388.0   100.4    99.7     0.7
 SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   356.9   355.0   388.0   388.0   100.4    99.6     0.8
 SINGLE 1001 : 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1   356.9   355.8   388.0   388.0    99.5    99.1     0.4
 SINGLE 1008 : 60130 SPLTRTA3 - 66537 WHITE  3 CKT: 1   356.9   355.8   388.0   388.0    99.5    99.1     0.4
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 SINGLE 1053 : 60148 MINVALY7 - 61954 REDFLST7 CKT: P   355.3   353.7   388.0   388.0    97.4    96.8     0.6
 SINGLE 2924 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1   348.2   345.7   388.0   388.0    96.4    95.8     0.6
 SINGLE 1042 : 60145 FRANKLN7 - 61954 REDFLST7 CKT: P   352.4   350.7   388.0   388.0    96.4    95.8     0.6
 SINGLE 2917 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1   338.9   337.4   388.0   388.0    93.3    92.7     0.6
 SINGLE 2922 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1   339.1   337.5   388.0   388.0    93.3    92.8     0.5
 SINGLE 2923 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1   338.8   337.2   388.0   388.0    93.2    92.6     0.6
 SINGLE 2898 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1   337.8   336.1   388.0   388.0    92.8    92.2     0.6
 SINGLE 2897 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1   337.8   336.2   388.0   388.0    92.8    92.2     0.6
 SINGLE 20   : 34006 LAKEFLD3 - 60286 NOBLES 3 CKT: C   336.4   334.9   388.0   388.0    92.2    91.7     0.5
 SINGLE 2934 : 60186 AS KING3 - 60006 KING 31G CKT: 1   337.0   335.2   388.0   388.0    92.1    91.6     0.5
 SINGLE 1068 : 60156 PYNSVIL7 - 60162 WAKEFLD7 CKT: C   337.7   336.0   388.0   388.0    91.8    91.2     0.6
 SINGLE 3521 : 66506 FTTHOMP3 - 66571 GR ISLD3 CKT: 1   333.6   332.1   388.0   388.0    91.3    90.7     0.6
 SINGLE 3403 : 63052 INMAN  4 - 61611 WINGRIV4 CKT: 1   333.6   331.9   388.0   388.0    91.3    90.7     0.6
 SINGLE 1002 : 60126 SPLT RK3 - 60131 SPLTRTB3 CKT: 1   333.0   331.3   388.0   388.0    91.2    90.6     0.6
 SINGLE 1009 : 60131 SPLTRTB3 - 66564 SIOUXCY3 CKT: 1   333.0   331.3   388.0   388.0    91.2    90.6     0.6
 SINGLE 1292 : 60287 NOBLES 7 - 60369 FENTON 7 CKT: C   332.2   330.6   388.0   388.0    91.1    90.6     0.5
 SINGLE 2053 : 63051 HENNING4 - 63331 FERGSFL4 CKT: 1   332.5   330.9   388.0   388.0    91.0    90.5     0.5
 SINGLE 2052 : 63051 HENNING4 - 63052 INMAN  4 CKT: 1   332.3   330.5   388.0   388.0    90.9    90.3     0.6
 SINGLE 2192 : 63329 WAHPETN4 - 63331 FERGSFL4 CKT: 1   331.8   330.1   388.0   388.0    90.9    90.3     0.6
 SINGLE 3066 : 60728 FRANKLN8 - 60770 BIRCH R8 CKT: C   332.2   .....   388.0   .....    90.6   .....   *NEW*
 SINGLE 3034 : 60677 HENRYTR8 - 60770 BIRCH R8 CKT: C   331.2   .....   388.0   .....    90.3   .....   *NEW*
 SINGLE 3452 : 63336 AUDUBON4 - 63053 HUBBARD4 CKT: 1   330.6   .....   388.0   .....    90.2   .....   *NEW*
 SINGLE 1890 : 62427 WILLMAR8 - 62437 SVEATAP8 CKT: 1   331.3   .....   388.0   .....    90.1   .....   *NEW*
 SINGLE 1013 : 60133 SHEYNNE4 - 63336 AUDUBON4 CKT: 1   330.0   .....   388.0   .....    90.1   .....   *NEW*
 SINGLE 2958 : 60240 RIVRSID7 - 60008 RIVRS78G CKT: 1   329.6   .....   388.0   .....    90.0   .....   *NEW*

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 111) 60170 MARSHAL7 - 60171 LYON CO7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
 SINGLE 1049 : 60148 MINVALY7 - 60171 LYON CO7 CKT: 1   150.9   150.2   127.9   127.9   115.7   115.1     0.6
 SINGLE 1292 : 60287 NOBLES 7 - 60369 FENTON 7 CKT: C   143.4   143.0   127.9   127.9   110.8   110.4     0.4
 SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   125.6   124.9   127.9   127.9    96.8    96.1     0.7
 SINGLE 994  : 60123 PIPESTN7 - 60125 PATHFDR7 CKT: 1   123.2   122.8   127.9   127.9    95.2    94.8     0.4
 SINGLE 1000 : 60125 PATHFDR7 - 60129 SPLT RK7 CKT: 1   123.2   122.8   127.9   127.9    95.2    94.8     0.4
 SINGLE 1370 : 60362 CHANRMB7 - 60369 FENTON 7 CKT: C   121.7   121.4   127.9   127.9    94.0    93.6     0.4
 SINGLE 3449 : 63314 BIGSTON4 - 63315 BIGSTN1G CKT: 1   121.6   121.2   127.9   127.9    93.2    92.8     0.4
 SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   121.3   120.7   127.9   127.9    93.0    92.4     0.6
 SINGLE 2447 : 66503 BLAIR  4 - 66550 GRANITF4 CKT: 1   121.0   120.4   127.9   127.9    92.7    92.2     0.5
 SINGLE 2501 : 66530 WATERTN4 - 66550 GRANITF4 CKT: 1   119.5   118.9   127.9   127.9    92.5    92.0     0.5
 SINGLE 1394 : 60684 YELWMED8 - 60903 LYON CO8 CKT: 1   119.4   118.9   127.9   127.9    91.8    91.4     0.4
 SINGLE 2237 : 66236 WATERT1T - 66530 WATERTN4 CKT: 1   118.7   118.2   127.9   127.9    91.3    90.8     0.5
 WATERT1T    : ** MULTIPLE CONTINGENCY **               118.7   118.2   127.9   127.9    91.3    90.8     0.5
             : 66236 WATERT1T - 66237 WATERT19 CKT: 1
             : 66236 WATERT1T - 66529 WATERTN3 CKT: 1
             : 66236 WATERT1T - 66530 WATERTN4 CKT: 1
 SINGLE 2236 : 66236 WATERT1T - 66529 WATERTN3 CKT: 1   118.7   118.2   127.9   127.9    91.3    90.8     0.5
 SINGLE 1390 : 60683 MINNVAL8 - 60684 YELWMED8 CKT: 1   118.3   117.8   127.9   127.9    91.0    90.5     0.5
 SINGLE 20   : 34006 LAKEFLD3 - 60286 NOBLES 3 CKT: C   117.8   117.3   127.9   127.9    90.9    90.5     0.4
 SINGLE 2924 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1   118.1   117.5   127.9   127.9    90.2    90.9    -0.7
 SINGLE 1009 : 60131 SPLTRTB3 - 66564 SIOUXCY3 CKT: 1   117.0   .....   127.9   .....    90.2   .....   *NEW*
 SINGLE 1002 : 60126 SPLT RK3 - 60131 SPLTRTB3 CKT: 1   117.0   .....   127.9   .....    90.2   .....   *NEW*

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 112) 34012 FOXLAKE8 - 34275 WELCOMT8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
 SINGLE 28   : 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1    68.5    67.4    69.0    69.0    96.2    94.6     1.6

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 113) 34275 WELCOMT8 - 61942 10TH STR CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
 SINGLE 28   : 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1    65.4    64.2    69.0    69.0    93.3    91.7     1.6

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 114) 34384 MCARMOR8 - 34396 EMERY N8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 46   : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1    75.7    74.9    51.0    51.0   149.2   147.6     1.6
  SINGLE 550  : 34393 MCHW1068 - 34395 EMERY S8 CKT: 1    73.7    73.3    51.0    51.0   145.3   144.4     0.9
  SINGLE 549  : 34393 MCHW1068 - 34394 MC 5DEL8 CKT: 1    58.6    58.2    51.0    51.0   115.0   114.3     0.7
  SINGLE 535  : 34380 LMCK E 8 - 34390 MCNWCSS8 CKT: 1    54.9    54.8    51.0    51.0   107.6   107.4     0.2
  SINGLE 2719 : 34016 EMERY  5 - 64252 FLOYD  5 CKT: 1    50.5    50.2    51.0    51.0    98.8    98.2     0.6
  PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                49.9    49.6    51.0    51.0    98.0    97.5     0.5
              : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
              : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
  SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1    49.8    49.2    51.0    51.0    97.9    97.2     0.7
  SINGLE 544  : 34389 MC LPC 8 - 34390 MCNWCSS8 CKT: 1    49.5    49.5    51.0    51.0    97.2    97.1     0.1
  SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1    48.8    48.6    51.0    51.0    95.2    94.6     0.6
  SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1    48.4    48.2    51.0    51.0    95.0    94.5     0.5
  SINGLE 551  : 34395 EMERY S8 - 34396 EMERY N8 CKT: 1    48.3    48.1    51.0    51.0    94.3    93.8     0.5
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    48.2    47.8    51.0    51.0    94.3    93.6     0.7
  SINGLE 2924 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    47.3    47.1    51.0    51.0    92.3    91.9     0.4
  SINGLE 552  : 34395 EMERY S8 - 34403 CL LAKT8 CKT: 1    47.3    47.0    51.0    51.0    92.1    91.7     0.4
  SINGLE 32   : 34009 WINBAGO5 - 61932 RUTLAND5 CKT: 1    47.2    47.0    51.0    51.0    91.9    91.4     0.5
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    46.7    46.4    51.0    51.0    91.7    91.0     0.7
  SINGLE 556  : 34401 6THAVET8 - 34403 CL LAKT8 CKT: 1    46.8    46.6    51.0    51.0    91.2    90.7     0.5
  SINGLE 2898 : 60105 PR ISLD3 - 60004 PR IS32G CKT: 1    46.5    46.3    51.0    51.0    90.8    90.3     0.5
  SINGLE 2897 : 60105 PR ISLD3 - 60003 PR IS31G CKT: 1    46.5    46.3    51.0    51.0    90.8    90.3     0.5
  SINGLE 47   : 34015 LIME CK5 - 34379 LMCK W 8 CKT: 1    46.4    46.3    51.0    51.0    90.7    90.3     0.4
  SINGLE 28   : 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1    46.4   .....    51.0   .....    90.5   .....   *NEW*
  SINGLE 2922 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1    46.3   .....    51.0   .....    90.4   .....   *NEW*
  SINGLE 2917 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1    46.3   .....    51.0   .....    90.4   .....   *NEW*
  SINGLE 2923 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1    46.3   .....    51.0   .....    90.3   .....   *NEW*
  SINGLE 48   : 34015 LIME CK5 - 34380 LMCK E 8 CKT: 1    46.2   .....    51.0   .....    90.3   .....   *NEW*
  SINGLE 557  : 34401 6THAVET8 - 34411 CLGRTLK8 CKT: 1    46.3   .....    51.0   .....    90.2   .....   *NEW*

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 115) 60809 SJA SWS8 - 60709 STJMSMU8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    57.5    56.5    36.0    36.0   159.4   156.6     2.8
  SINGLE 28   : 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1    41.2    40.8    36.0    36.0   113.5   112.2     1.3
  SINGLE 383  : 34231 MT LAKE8 - 34281 MTLAKET8 CKT: 1    35.5    35.2    36.0    36.0    97.5    96.7     0.8
  LAKF-FOX DBL: ** MULTIPLE CONTINGENCY **                35.0    34.6    36.0    36.0    96.0    94.9     1.1
              : 34007 LAKEFLD5 - 34008 FOX LK 5 CKT: 1
              : 34007 LAKEFLD5 - 34008 FOX LK 5 CKT: 2
  SINGLE 381  : 34230 COMFREY8 - 34281 MTLAKET8 CKT: 1    34.8    34.5    36.0    36.0    95.6    94.9     0.7
  SINGLE 380  : 34230 COMFREY8 - 34240 DOTSON 8 CKT: 1    34.3    34.1    36.0    36.0    94.2    93.6     0.6
  SINGLE 3194 : 60934 WATOWAN8 - 62804 SVEADTP8 CKT: 1    34.3    34.1    36.0    36.0    94.0    93.5     0.5
  SINGLE 3197 : 60935 BUTRFLD8 - 62804 SVEADTP8 CKT: 1    33.9    33.7    36.0    36.0    92.9    92.5     0.4
  SINGLE 1692 : 61934 RUTLAND  - 61942 10TH STR CKT: 1    33.6    33.3    36.0    36.0    92.3    91.4     0.9
  SINGLE 39   : 34012 FOXLAKE8 - 34275 WELCOMT8 CKT: 1    33.5    33.2    36.0    36.0    92.1    91.2     0.9
  SINGLE 384  : 34231 MT LAKE8 - 60935 BUTRFLD8 CKT: 1    33.5    33.4    36.0    36.0    92.0    91.5     0.5
  SINGLE 450  : 34280 TRUMANT8 - 61934 RUTLAND  CKT: 1    33.4    33.0    36.0    36.0    91.4    90.5     0.9
  SINGLE 441  : 34275 WELCOMT8 - 61942 10TH STR CKT: 1    33.2    32.9    36.0    36.0    91.3    90.4     0.9

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 116) 60809 SJA SWS8 - 62805 STJAMES8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    59.5    58.4    36.0    36.0   163.5   160.8     2.7
  SINGLE 28   : 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1    42.8    42.3    36.0    36.0   117.0   115.7     1.3
  SINGLE 383  : 34231 MT LAKE8 - 34281 MTLAKET8 CKT: 1    36.7    36.4    36.0    36.0   100.3    99.5     0.8
  LAKF-FOX DBL: ** MULTIPLE CONTINGENCY **                36.3    35.9    36.0    36.0    99.2    98.1     1.1
              : 34007 LAKEFLD5 - 34008 FOX LK 5 CKT: 1
              : 34007 LAKEFLD5 - 34008 FOX LK 5 CKT: 2
  SINGLE 381  : 34230 COMFREY8 - 34281 MTLAKET8 CKT: 1    36.0    35.7    36.0    36.0    98.4    97.6     0.8
  SINGLE 380  : 34230 COMFREY8 - 34240 DOTSON 8 CKT: 1    35.5    35.2    36.0    36.0    97.0    96.3     0.7
  SINGLE 3194 : 60934 WATOWAN8 - 62804 SVEADTP8 CKT: 1    35.5    35.3    36.0    36.0    96.8    96.3     0.5
  SINGLE 3197 : 60935 BUTRFLD8 - 62804 SVEADTP8 CKT: 1    35.1    34.9    36.0    36.0    95.8    95.3     0.5
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 SINGLE 1692 : 61934 RUTLAND  - 61942 10TH STR CKT: 1    35.0    34.7    36.0    36.0    95.7    94.8     0.9
 SINGLE 39   : 34012 FOXLAKE8 - 34275 WELCOMT8 CKT: 1    34.9    34.6    36.0    36.0    95.4    94.5     0.9
 SINGLE 450  : 34280 TRUMANT8 - 61934 RUTLAND  CKT: 1    34.8    34.5    36.0    36.0    95.0    94.0     1.0
 SINGLE 384  : 34231 MT LAKE8 - 60935 BUTRFLD8 CKT: 1    34.8    34.6    36.0    36.0    94.8    94.3     0.5
 SINGLE 441  : 34275 WELCOMT8 - 61942 10TH STR CKT: 1    34.6    34.3    36.0    36.0    94.5    93.6     0.9
 SINGLE 402  : 34248 TRUMANM8 - 34280 TRUMANT8 CKT: 1    33.8    33.4    36.0    36.0    92.1    91.0     1.1
 SINGLE 401  : 34248 TRUMANM8 - 34249 TRUMAN 8 CKT: 1    33.8    33.4    36.0    36.0    92.1    91.0     1.1
 SINGLE 2924 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    33.6    33.3    36.0    36.0    92.0    91.2     0.8
 SINGLE 393  : 34240 DOTSON 8 - 62065 DOTSON 8 CKT: 1    33.5    33.2    36.0    36.0    91.7    90.6     1.1
 SINGLE 403  : 34249 TRUMAN 8 - 62799 LWSVLTP8 CKT: 1    33.4   .....    36.0   .....    91.0   .....   *NEW*
 SINGLE 1720 : 62065 DOTSON 8 - 62066 LVNWRTH8 CKT: 1    33.1   .....    36.0   .....    90.5   .....   *NEW*
 SINGLE 1693 : 61936 FAIRMONT - 61942 10TH STR CKT: 2    33.0   .....    36.0   .....    90.3   .....   *NEW*
 SINGLE 2704 : 34006 LAKEFLD3 - 63875 RAUN   3 CKT: 1    33.0   .....    36.0   .....    90.1   .....   *NEW*

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 117) 61932 RUTLAND5 - 61934 RUTLAND  CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 28   : 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1    78.9    77.9    74.7    74.7   105.7   104.3     1.4

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 118) 61934 RUTLAND  - 61942 10TH STR CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 28   : 34008 FOX LK 5 - 61932 RUTLAND5 CKT: 1    66.0    65.1    36.0    36.0   182.8   180.1     2.7
 SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    38.7    38.3    36.0    36.0   106.9   105.8     1.1

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 119) 34009 WINBAGO5 - 34257 WBGOJ N8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1    78.8    78.4    74.7    74.7   105.5   104.9     0.6

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 120) 34257 WBGOJ N8 - 34261 BL EART8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1    64.0    63.5    47.0    47.0   131.9   130.9     1.0

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 121) 34261 BL EART8 - 34307 B EARTT8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1    61.4    61.0    47.0    47.0   130.6   129.6     1.0

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 122) 34263 ELMORE 8 - 34270 LAKOTCB8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1    58.1    57.7    47.0    47.0   126.5   125.5     1.0

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 123) 34263 ELMORE 8 - 34307 B EARTT8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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 SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1    60.4    60.1    47.0    47.0   130.5   129.5     1.0

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 124) 34270 LAKOTCB8 - 34362 LAKOTA_8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1    57.4    57.0    44.0    44.0   134.2   133.1     1.1

==================================================================================================================
 125) 34362 LAKOTA_8 - 34363 BUFFCTR8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1    54.2    53.8    44.0    44.0   126.8   125.7     1.1

==================================================================================================================
 126) 34363 BUFFCTR8 - 69010 WINNCO   CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
```

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 SINGLE 29   : 34009 WINBAGO5 - 34013 WNBAGOS5 CKT: 1    52.9    52.5    45.0    45.0   120.0   119.0     1.0

==================================================================================================================
 127) 34009 WINBAGO5 - 34013 WNBAGOS5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **               339.9   338.8   336.0   336.0   110.3   109.8     0.5
             : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
             : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
 SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   339.8   337.2   336.0   336.0   108.5   107.3     1.2
 SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1   323.5   321.9   336.0   336.0   104.0   103.2     0.8
 SINGLE 30   : 34009 WINBAGO5 - 34257 WBGOJ N8 CKT: 1   293.6   .....   336.0   .....    90.7   .....   *NEW*
 SINGLE 2894 : 60102 ADAMS  3 - 63032 PL VLLY3 CKT: 1   289.5   .....   336.0   .....    90.4   .....   *NEW*

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 128) 34013 WNBAGOS5 - 34258 WBGOJ S8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 33   : 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1    39.0    38.6    30.0    30.0   130.1   128.6     1.5
 SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1    32.7    31.3    30.0    30.0   109.1   104.4     4.7
 PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                32.7    32.6    30.0    30.0   109.0   108.8     0.2
             : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
             : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
 SINGLE 425  : 34262 BRCLYNT8 - 69042 T BRC    CKT: 1    32.5    32.3    30.0    30.0   108.3   107.6     0.7
 SINGLE 2711 : 34013 WNBAGOS5 - 69529 WINNCO 5 CKT: 1    32.5    32.2    30.0    30.0   108.3   107.2     1.1
 SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    32.4    32.0    30.0    30.0   107.9   106.7     1.2
 SINGLE 423  : 34262 BRCLYNT8 - 34264 BRICLYN8 CKT: 1    32.0    31.8    30.0    30.0   106.5   105.9     0.6
 SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1    31.6    31.5    30.0    30.0   105.4   105.0     0.4
 SINGLE 428  : 34264 BRICLYN8 - 34265 WALTERS8 CKT: 1    31.1    30.9    30.0    30.0   103.8   103.2     0.6
 SINGLE 30   : 34009 WINBAGO5 - 34257 WBGOJ N8 CKT: 1    28.9    28.8    30.0    30.0    96.4    95.9     0.5
 SINGLE 37   : 34010 HAYWARD5 - 34294 HAYWD#28 CKT: 1    28.9    28.7    30.0    30.0    96.3    95.8     0.5
 SINGLE 36   : 34010 HAYWARD5 - 34293 HAYWD#18 CKT: 1    28.4    28.2    30.0    30.0    94.6    93.9     0.7
 SINGLE 2894 : 60102 ADAMS  3 - 63032 PL VLLY3 CKT: 1    28.2    28.1    30.0    30.0    94.0    93.6     0.4
 ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                27.9    27.8    30.0    30.0    93.0    92.7     0.3
             : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
 SINGLE 46   : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1    27.9    27.6    30.0    30.0    92.9    91.9     1.0
 SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1    27.8    27.7    30.0    30.0    92.8    92.4     0.4
 050    2    : ** MULTIPLE CONTINGENCY **                27.8    27.7    30.0    30.0    92.6    92.3     0.3
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
 SINGLE 464  : 34291 ALEA  E8 - 34293 HAYWD#18 CKT: 1    27.5    27.4    30.0    30.0    91.8    91.4     0.4
 BLL-PRI/IVH3: ** MULTIPLE CONTINGENCY **                27.5    27.4    30.0    30.0    91.8    91.3     0.5
             : 60192 BLUE LK3 - 60105 PR ISLD3 CKT: 1
             : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
 SINGLE 2717 : 34016 EMERY  5 - 34912 EMERYST1 CKT: 1    27.5    27.4    30.0    30.0    91.8    91.4     0.4
 SINGLE 417  : 34257 WBGOJ N8 - 34261 BL EART8 CKT: 1    27.6    27.3    30.0    30.0    91.8    90.9     0.9
 SINGLE 427  : 34263 ELMORE 8 - 34307 B EARTT8 CKT: 1    27.5    27.2    30.0    30.0    91.7    90.8     0.9
 SINGLE 422  : 34261 BL EART8 - 34307 B EARTT8 CKT: 1    27.5    27.2    30.0    30.0    91.7    90.8     0.9
 050    1    : ** MULTIPLE CONTINGENCY **                27.5    27.4    30.0    30.0    91.6    91.2     0.4
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
 SINGLE 1275 : 60265 LOON TP7 - 60830 EASTWD18 CKT: P    27.5    27.1    30.0    30.0    91.5    90.5     1.0
 SINGLE 2704 : 34006 LAKEFLD3 - 63875 RAUN   3 CKT: 1    27.4    27.3    30.0    30.0    91.4    91.1     0.3
 700    1    : ** MULTIPLE CONTINGENCY **                27.4    27.1    30.0    30.0    91.2    90.2     1.0
             : 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1
             : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
             : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1
 SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    27.4    27.1    30.0    30.0    91.2    90.5     0.7
 SINGLE 424  : 34263 ELMORE 8 - 34270 LAKOTCB8 CKT: 1   .....    27.1   .....    30.0   .....    90.2  *ELIM*
```

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==================================================================================================================
 129) 60109 WILMART5 - 60110 WILMART7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 32   : 34009 WINBAGO5 - 61932 RUTLAND5 CKT: 1   185.8   185.2   187.0   187.0    99.4    99.1     0.3

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 130) 34265 WALTERS8 - 34285 ALDEN J8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 33   : 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1    59.3    58.8    44.0    44.0   141.0   139.8     1.2
  SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1    47.5    46.5    44.0    44.0   117.9   117.4     0.5
  PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                47.5    47.4    44.0    44.0   117.9   117.3     0.6
              : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
              : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    47.3    46.9    44.0    44.0   114.4   113.1     1.3
  SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1    45.7    45.5    44.0    44.0   112.2   111.4     0.8
  SINGLE 37   : 34010 HAYWARD5 - 34294 HAYWD#28 CKT: 1    43.4    43.4    44.0    44.0   104.0   103.7     0.3
  SINGLE 36   : 34010 HAYWARD5 - 34293 HAYWD#18 CKT: 1    41.9    41.5    44.0    44.0    99.7    98.8     0.9
  SINGLE 464  : 34291 ALEA  E8 - 34293 HAYWD#18 CKT: 1    41.4    41.2    44.0    44.0    99.6    98.9     0.7
  SINGLE 2894 : 60102 ADAMS  3 - 63032 PL VLLY3 CKT: 1    40.6    40.4    44.0    44.0    96.9    96.1     0.8
  SINGLE 46   : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1    40.4    40.0    44.0    44.0    95.5    94.4     1.1
  ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                40.2    39.9    44.0    44.0    95.5    94.6     0.9
              : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
  SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1    40.2    39.9    44.0    44.0    95.4    94.6     0.8
  SINGLE 463  : 34290 FARMSTD8 - 34291 ALEA  E8 CKT: 1    39.9    39.6    44.0    44.0    95.4    94.7     0.7
  050    2    : ** MULTIPLE CONTINGENCY **                40.0    39.7    44.0    44.0    95.0    94.2     0.8
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
  BLL-PRI/IVH3: ** MULTIPLE CONTINGENCY **                39.9    39.7    44.0    44.0    94.2    93.4     0.8
              : 60192 BLUE LK3 - 60105 PR ISLD3 CKT: 1
              : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
  SINGLE 468  : 34294 HAYWD#28 - 69054 SOUTH SH CKT: 1    39.6    39.3    44.0    44.0    94.0    93.4     0.6
  SINGLE 35   : 34010 HAYWARD5 - 34015 LIME CK5 CKT: 1    39.7    39.4    44.0    44.0    93.9    93.1     0.8
  SINGLE 465  : 34292 ALEA19 8 - 69054 SOUTH SH CKT: 1    39.5    39.2    44.0    44.0    93.8    93.0     0.8
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    39.4    39.1    44.0    44.0    93.7    92.8     0.9
  050    1    : ** MULTIPLE CONTINGENCY **                39.5    39.3    44.0    44.0    93.7    93.0     0.7
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
  SINGLE 1275 : 60265 LOON TP7 - 60830 EASTWD18 CKT: P    39.8    39.4    44.0    44.0    93.6    92.7     0.9
  SINGLE 2704 : 34006 LAKEFLD3 - 63875 RAUN   3 CKT: 1    39.7    39.4    44.0    44.0    93.6    92.8     0.8
  700    1    : ** MULTIPLE CONTINGENCY **                39.7    39.3    44.0    44.0    93.3    92.5     0.8
              : 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1
              : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
              : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1
  SINGLE 1696 : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1    39.6    39.2    44.0    44.0    93.1    92.2     0.9
  BYN-WOW/KAN5: ** MULTIPLE CONTINGENCY **                39.4    39.1    44.0    44.0    92.6    91.9     0.7
              : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1
              : 61161 BYRON  8 - 60799 KASSON 8 CKT: 1
  SINGLE 952  : 60107 W FARIB7 - 60265 LOON TP7 CKT: C    39.1    38.7    44.0    44.0    91.9    91.1     0.8
  SINGLE 2717 : 34016 EMERY  5 - 34912 EMERYST1 CKT: 1    39.3    38.9    44.0    44.0    91.9    91.1     0.8
  SINGLE 247  : 34137 TRIBOJI5 - 66563 SPENCER5 CKT: 1    39.0    38.8    44.0    44.0    91.7    91.3     0.4
  SINGLE 1697 : 61952 S FARIB5 - 61964 OWATNNA5 CKT: 1    39.0    38.7    44.0    44.0    91.7    91.0     0.7
  SINGLE 415  : 34256 WBGO   8 - 34257 WBGOJ N8 CKT: 1    39.1    38.7    44.0    44.0    91.5    90.7     0.8
  SINGLE 457  : 34287 SBRDWAY8 - 34290 FARMSTD8 CKT: 1   .....    38.6   .....    44.0   .....    91.8  *ELIM*
  SINGLE 953  : 60107 W FARIB7 - 61952 S FARIB5 CKT: 1   .....    38.7   .....    44.0   .....    91.0  *ELIM*
  SINGLE 3359 : 61948 BYRON  5 - 61906 MAPLE LF CKT: 1   .....    38.8   .....    44.0   .....    91.5  *ELIM*
```

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 131) 34285 ALDEN J8 - 34286 ALEAWST8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 33   : 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1    56.8    56.3    44.0    44.0   137.0   135.8     1.2
  SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1    44.8    44.1    44.0    44.0   113.6   113.1     0.5
  PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                44.8    44.7    44.0    44.0   113.6   113.0     0.6
              : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
              : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    44.7    44.3    44.0    44.0   110.1   108.9     1.2
  SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1    43.0    42.8    44.0    44.0   107.8   107.1     0.7
  SINGLE 37   : 34010 HAYWARD5 - 34294 HAYWD#28 CKT: 1    40.7    40.6    44.0    44.0    99.7    99.3     0.4
  SINGLE 36   : 34010 HAYWARD5 - 34293 HAYWD#18 CKT: 1    39.3    39.0    44.0    44.0    95.4    94.6     0.8
  SINGLE 464  : 34291 ALEA  E8 - 34293 HAYWD#18 CKT: 1    38.7    38.5    44.0    44.0    95.1    94.5     0.6
  SINGLE 2894 : 60102 ADAMS  3 - 63032 PL VLLY3 CKT: 1    38.2    38.0    44.0    44.0    92.6    91.9     0.7
  SINGLE 46   : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1    38.1    37.7    44.0    44.0    91.3    90.3     1.0
  SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1    37.7    37.5    44.0    44.0    91.2    90.4     0.8
  ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                37.7    37.5    44.0    44.0    91.2    90.4     0.8
              : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
  SINGLE 463  : 34290 FARMSTD8 - 34291 ALEA  E8 CKT: 1    37.3    37.0    44.0    44.0    91.0    90.3     0.7
  050    2    : ** MULTIPLE CONTINGENCY **                37.5   .....    44.0   .....    90.7   .....   *NEW*
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
  BLL-PRI/IVH3: ** MULTIPLE CONTINGENCY **                37.6   .....    44.0   .....    90.0   .....   *NEW*
              : 60192 BLUE LK3 - 60105 PR ISLD3 CKT: 1
              : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1

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 132) 34014 ADAMS  5 - 69526 BVR CRK5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1   271.0   269.3   224.0   224.0   120.0   119.1     0.9
  SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   225.6   225.4   224.0   224.0   104.8   104.6     0.2
  825         : ** MULTIPLE CONTINGENCY **               228.2   226.4   224.0   224.0   103.9   103.0     0.9
              : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
              : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
              : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1
  050    2    : ** MULTIPLE CONTINGENCY **               220.2   219.8   224.0   224.0   102.7   102.4     0.3
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
  ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **               216.6   215.8   224.0   224.0   100.8   100.3     0.5
              : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
  SINGLE 2723 : 34021 LANSINGW - 34024 LANS5 4G CKT: 1   206.8   206.1   224.0   224.0    94.3    93.9     0.4
  050    1    : ** MULTIPLE CONTINGENCY **               200.0   199.0   224.0   224.0    93.1    92.5     0.6
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
  SINGLE 43   : 34014 ADAMS  5 - 34306 ADAMS  8 CKT: 1   201.3   200.4   224.0   224.0    91.5    91.0     0.5
  SINGLE 2993 : 60309 MRSHLND5 - 69543 ALMA   5 CKT: 1   199.1   198.3   224.0   224.0    90.6    90.2     0.4

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 133) 61980 RICE   5 - 69526 BVR CRK5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 43   : 34014 ADAMS  5 - 34306 ADAMS  8 CKT: 1    66.7    66.6    75.0    75.0    91.4    91.2     0.2

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 134) 34016 EMERY  5 - 34395 EMERY S8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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 SINGLE 51   : 34016 EMERY  5 - 34396 EMERY N8 CKT: 1   118.8   118.2   112.0   112.0   106.1   105.6     0.5
 SINGLE 46   : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1   110.7   109.6   112.0   112.0    98.8    97.8     1.0

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 135) 34016 EMERY  5 - 34396 EMERY N8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------------
 SINGLE 50   : 34016 EMERY  5 - 34395 EMERY S8 CKT: 1   118.8   118.2   112.0   112.0   106.1   105.6     0.5
 SINGLE 46   : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1   110.7   109.6   112.0   112.0    98.8    97.8     1.0

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 136) 34383 MC 25ST8 - 34384 MCARMOR8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------------
 SINGLE 46   : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1    63.5    62.7    69.0    69.0    93.6    92.4     1.2
 SINGLE 550  : 34393 MCHW1068 - 34395 EMERY S8 CKT: 1    61.4    61.0    69.0    69.0    90.7    90.0     0.7

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 137) 34383 MC 25ST8 - 34385 MC NWT 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------------
 SINGLE 46   : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1    63.2    62.5    69.0    69.0    93.6    92.4     1.2
 SINGLE 550  : 34393 MCHW1068 - 34395 EMERY S8 CKT: 1    61.1    60.7    69.0    69.0    90.7    90.0     0.7

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 138) 34385 MC NWT 8 - 34387 MCLPCSS8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------------
 SINGLE 46   : 34015 LIME CK5 - 34016 EMERY  5 CKT: 1    55.4    54.7    60.0    60.0    94.8    93.4     1.4
 SINGLE 550  : 34393 MCHW1068 - 34395 EMERY S8 CKT: 1    53.2    52.7    60.0    60.0    91.3    90.6     0.7

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 139) 34022 LANSING5 - 34023 LANSING8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------------
 885         : ** MULTIPLE CONTINGENCY **               77.5    77.3    75.0    75.0   103.3   103.1     0.2
             : 69507 SENECA 5 - 69511 BELLCTR5 CKT: 1
             : 69507 SENECA 5 - 69523 GENOA  5 CKT: 1
 SINGLE 2727 : 34022 LANSING5 - 69531 POSTVIL5 CKT: 1    77.4    77.3    75.0    75.0   103.2   103.1     0.1
 880         : ** MULTIPLE CONTINGENCY **               73.0    72.9    75.0    75.0    97.4    97.2     0.2
             : 69523 GENOA  5 - 69527 HARMONY5 CKT: 1
             : 69523 GENOA  5 - 34021 LANSINGW CKT: 1
 SINGLE 526  : 34371 RICE   8 - 34415 CRESCO 8 CKT: 1    69.5    69.4    75.0    75.0    92.7    92.6     0.1
 SINGLE 2849 : 34423 MONONA_8 - 68748 POST     CKT: 1    69.1    69.0    75.0    75.0    92.2    92.0     0.2
 SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1    67.8    67.5    75.0    75.0    90.3    90.0     0.3
 050    3    : ** MULTIPLE CONTINGENCY **               67.5   .....    75.0   .....    90.0   .....   *NEW*
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1

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 140) 34061 BNE JCT5 - 34076 BNE JCT7 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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 SINGLE 138  : 34061 BNE JCT5 - 34076 BNE JCT7 CKT: 3    78.5    78.2    60.0    60.0   130.8   130.3     0.5
 SINGLE 132  : 34059 BOONE  7 - 34073 GR JCT 7 CKT: 1    64.1    63.7    60.0    60.0   106.8   106.2     0.6
 SINGLE 122  : 34054 GR JCT 5 - 34529 GRJCT5Y  CKT: 1    64.1    63.7    60.0    60.0   106.8   106.2     0.6
 SINGLE 157  : 34073 GR JCT 7 - 34529 GRJCT5Y  CKT: 1    64.0    63.7    60.0    60.0   106.7   106.1     0.6
 SINGLE 2744 : 34054 GR JCT 5 - 63771 DRAGER 5 CKT: 1    62.8    62.4    60.0    60.0   104.6   104.1     0.5
 SINGLE 136  : 34061 BNE JCT5 - 34062 BNE JCT8 CKT: 1    57.6    57.4    60.0    60.0    96.1    95.6     0.5
 SINGLE 2755 : 34062 BNE JCT8 - 64504 STANGE8  CKT: 1    57.6    57.4    60.0    60.0    96.1    95.6     0.5
 SINGLE 107  : 34047 ANTA TP5 - 34048 ANITA  5 CKT: 1    56.6    56.4    60.0    60.0    94.3    94.0     0.3
 SINGLE 110  : 34048 ANITA  5 - 34050 GU CTR 5 CKT: 1    56.4    56.1    60.0    60.0    94.0    93.5     0.5
 SINGLE 2821 : 34191 REASNOR5 - 64062 DMOINES5 CKT: 1    55.0    54.7    60.0    60.0    91.7    91.2     0.5
 SINGLE 2759 : 34066 M-TOWN 7 - 34088 M-TOWN3G CKT: 1    54.9    54.6    60.0    60.0    91.5    91.0     0.5
 SINGLE 2513 : 66561 DENISON5 - 66567 DENISON4 CKT: 1    54.8    54.6    60.0    60.0    91.4    90.9     0.5
 SINGLE 109  : 34047 ANTA TP5 - 66561 DENISON5 CKT: 1    54.8    54.7    60.0    60.0    91.4    91.1     0.3
 SINGLE 112  : 34049 SCRANTN5 - 34050 GU CTR 5 CKT: 1    54.8    54.5    60.0    60.0    91.3    90.9     0.4
```

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 SINGLE 156  : 34072 FRNKLIN7 - 34571 FRNKLN_Y CKT: 1    54.6    54.3    60.0    60.0    91.0    90.5     0.5
 SINGLE 155  : 34072 FRNKLIN7 - 34077 IA FALS7 CKT: 1    54.6    54.3    60.0    60.0    91.0    90.5     0.5
 SINGLE 2860 : 34571 FRNKLN_Y - 64239 FRANKLN5 CKT: 1    54.6    54.3    60.0    60.0    91.0    90.5     0.5
 SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1    54.3    54.3    60.0    60.0    90.5    90.5     0.0
 825         : ** MULTIPLE CONTINGENCY **                54.2   .....    60.0   .....    90.4   .....   *NEW*
             : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
             : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
             : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1

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 141) 34061 BNE JCT5 - 64205 FT.DODG5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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 SINGLE 2744 : 34054 GR JCT 5 - 63771 DRAGER 5 CKT: 1   151.8   149.7   165.0   165.0    93.4    91.9     1.5
 SINGLE 122  : 34054 GR JCT 5 - 34529 GRJCT5Y  CKT: 1   149.2   147.2   165.0   165.0    91.5    90.1     1.4
 SINGLE 132  : 34059 BOONE  7 - 34073 GR JCT 7 CKT: 1   149.0   .....   165.0   .....    91.4   .....   *NEW*
 SINGLE 157  : 34073 GR JCT 7 - 34529 GRJCT5Y  CKT: 1   149.2   147.2   165.0   165.0    91.4    90.1     1.3
 SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1   147.5   .....   165.0   .....    91.4   .....   *NEW*
 050    1    : ** MULTIPLE CONTINGENCY **               146.7   .....   165.0   .....    90.8   .....   *NEW*
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
 825         : ** MULTIPLE CONTINGENCY **               145.9   .....   165.0   .....    90.2   .....   *NEW*
             : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
             : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
             : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1
 050    3    : ** MULTIPLE CONTINGENCY **               146.0   .....   165.0   .....    90.2   .....   *NEW*
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1

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 142) 34072 FRNKLIN7 - 34571 FRNKLN_Y CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1   101.6   100.9   112.0   112.0    90.7    90.1     0.6
 SINGLE 55   : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1   101.0   .....   112.0   .....    90.2   .....   *NEW*

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 143) 34085 BLRSTWN7 - 34099 PRAR CK7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 114  : 34051 TOLEDO 7 - 34066 M-TOWN 7 CKT: 1    61.9    60.8    60.0    60.0   101.1    99.4     1.7
 SINGLE 163  : 34079 TRAER  5 - 34087 DYSART 5 CKT: 1    60.3    59.2    60.0    60.0    98.5    96.7     1.8
 SINGLE 151  : 34068 M-TOWN 5 - 34079 TRAER  5 CKT: 1    58.6    57.6    60.0    60.0    95.7    94.0     1.7
 SINGLE 174  : 34085 BLRSTWN7 - 34086 WILMSBG7 CKT: 1    58.4    57.5    60.0    60.0    94.3    92.8     1.5
 SINGLE 115  : 34051 TOLEDO 7 - 34083 BL.PLN.7 CKT: 1    57.1    56.0    60.0    60.0    93.2    91.4     1.8
 SINGLE 147  : 34066 M-TOWN 7 - 34528 M-TOWN Y CKT: 1    56.2    55.4    60.0    60.0    91.7    90.3     1.4
 SINGLE 153  : 34068 M-TOWN 5 - 34528 M-TOWN Y CKT: 1    56.2    55.4    60.0    60.0    91.7    90.3     1.4
 SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1    55.9   .....    60.0   .....    91.5   .....   *NEW*
 SINGLE 55   : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1    55.7   .....    60.0   .....    90.9   .....   *NEW*
 825         : ** MULTIPLE CONTINGENCY **                55.5   .....    60.0   .....    90.8   .....   *NEW*
             : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
             : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
             : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1
 SINGLE 2782 : 34099 PRAR CK7 - 34098 PR CRK4G CKT: 1    54.6   .....    60.0   .....    90.4   .....   *NEW*

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 144) 34423 MONONA_8 - 69307 FARMBURG CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 885         : ** MULTIPLE CONTINGENCY **                71.4    71.2    51.0    51.0   139.5   139.0     0.5
             : 69507 SENECA 5 - 69511 BELLCTR5 CKT: 1
             : 69507 SENECA 5 - 69523 GENOA  5 CKT: 1
 880         : ** MULTIPLE CONTINGENCY **                58.6    58.5    51.0    51.0   113.9   113.6     0.3
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              : 69523 GENOA  5 - 69527 HARMONY5 CKT: 1
              : 69523 GENOA  5 - 34021 LANSINGW CKT: 1
 050     3    : ** MULTIPLE CONTINGENCY **                55.1    54.9    51.0    51.0   107.5   106.8     0.7
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
 SINGLE 2989  : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1    54.4    54.1    51.0    51.0   105.5   105.0     0.5
 050     1    : ** MULTIPLE CONTINGENCY **                54.1    53.8    51.0    51.0   105.2   104.6     0.6
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
 SINGLE 55    : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1    52.6    52.3    51.0    51.0   102.2   101.5     0.7
 050     2    : ** MULTIPLE CONTINGENCY **                52.8    52.8    51.0    51.0   102.2   102.1     0.1
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
 SINGLE 60    : 34020 HAZL S 5 - 34135 DUNDEE 5 CKT: 1    52.6    52.4    51.0    51.0   102.0   101.7     0.3
 ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                 52.5    52.3    51.0    51.0   101.6   101.2     0.4
              : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
 SINGLE 234   : 34129 LIBERTY5 - 34135 DUNDEE 5 CKT: 1    52.0    51.9    51.0    51.0   101.0   100.6     0.4
 SINGLE 2724  : 34021 LANSINGW - 69523 GENOA  5 CKT: 1    52.0    51.9    51.0    51.0   100.8   100.5     0.3
 SINGLE 2775  : 34093 ARNOLD 3 - 64352 TIFFIN 3 CKT: 1    51.1    50.8    51.0    51.0    99.1    98.5     0.6
 SINGLE 71    : 34028 LORE   5 - 34129 LIBERTY5 CKT: 1    50.3    50.2    51.0    51.0    97.6    97.3     0.3
 SINGLE 2730  : 34036 ROCK CK3 - 36382 QUAD ;   CKT: 1    48.2    48.0    51.0    51.0    93.3    93.0     0.3
 SINGLE 3360  : 61930 WINDSOR5 - 69531 POSTVIL5 CKT: 1    47.8    47.7    51.0    51.0    92.7    92.4     0.3
 SINGLE 56    : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1    47.8    47.7    51.0    51.0    92.6    92.2     0.4
 SINGLE 118   : 34053 MT VERN5 - 34109 BERTRAM5 CKT: 1    47.4    47.3    51.0    51.0    91.9    91.6     0.3
 SINGLE 1116  : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1    47.2    47.1    51.0    51.0    91.5    91.1     0.4
 SINGLE 2851  : 34444 POSTVIP8 - 68748 POST     CKT: 1    47.3    47.2    51.0    51.0    91.3    91.0     0.3
 SINGLE 119   : 34053 MT VERN5 - 34127 WYOMING5 CKT: 1    47.1    46.9    51.0    51.0    91.2    91.0     0.2
 SINGLE 593   : 34431 W UNION8 - 34446 FAYETTE8 CKT: 1    47.0    46.9    51.0    51.0    91.0    90.7     0.3
 SINGLE 57    : 34019 HAZLTON5 - 34020 HAZL S 5 CKT: 1    46.9    46.8    51.0    51.0    90.9    90.6     0.3
 SINGLE 3212  : 60949 MONROCO8 - 68847 SPARTA   CKT: 1    46.8    46.5    51.0    51.0    90.5    90.2     0.3
 SINGLE 612   : 34446 FAYETTE8 - 34447 FAYETTJ8 CKT: 1    46.8    46.6    51.0    51.0    90.5    90.2     0.3
 SINGLE 227   : 34126 MQOKETA5 - 34127 WYOMING5 CKT: 1    46.6    46.5    51.0    51.0    90.4    90.1     0.3
 SINGLE 578   : 34423 MONONA_8 - 34424 MARQUET8 CKT: 1    46.7   .....    51.0   .....    90.1   .....   *NEW*

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 145) 34571 FRNKLN_Y - 64239 FRANKLN5 CKT:  1  **NEW** PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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 SINGLE 56    : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1   101.6   .....   112.0   .....    90.5   .....   *NEW*

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 146) 34650 ARISTAP8 - 34653 CRESTN8_ CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 686   : 34585 LORIMRR8 - 34588 SLAKEN 8 CKT: 1    32.7    32.4    24.0    24.0   135.5   134.2     1.3
 SINGLE 685   : 34585 LORIMRR8 - 34586 LORIMOR8 CKT: 1    32.6    32.3    24.0    24.0   135.4   134.1     1.3
 SINGLE 687   : 34586 LORIMOR8 - 34587 MURRAY 8 CKT: 1    32.6    32.3    24.0    24.0   135.2   134.0     1.2
 SINGLE 2820  : 34189 OTTUMWA5 - 34146 OTTUMW1G CKT: 1    25.4    25.2    24.0    24.0   105.3   104.5     0.8
 SINGLE 688   : 34587 MURRAY 8 - 34589 HOPEVIL8 CKT: 1    24.9    24.6    24.0    24.0   103.0   102.1     0.9
 SINGLE 694   : 34589 HOPEVIL8 - 34590 GRDRVRE8 CKT: 1    24.8    24.6    24.0    24.0   102.8   101.9     0.9
 SINGLE 696   : 34590 GRDRVRE8 - 34643 GRRIVER8 CKT: 1    24.8    24.6    24.0    24.0   102.7   101.8     0.9
 050     1    : ** MULTIPLE CONTINGENCY **                22.7    22.5    24.0    24.0    93.9    93.1     0.8
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
 SINGLE 135   : 34060 WNTRST 5 - 66560 CRESTON5 CKT: 1    22.6    22.4    24.0    24.0    93.4    92.6     0.8
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 ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                22.5    22.3    24.0    24.0    93.3    92.5     0.8
             : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
 050    2    : ** MULTIPLE CONTINGENCY **                22.5    22.3    24.0    24.0    93.3    92.5     0.8
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
 SINGLE 300  : 34185 POWESHK5 - 34191 REASNOR5 CKT: 1    22.5    22.3    24.0    24.0    93.2    92.3     0.9
 SINGLE 2819 : 34188 OTTUMWA3 - 64095 MNTZUMA3 CKT: 1    22.5    22.3    24.0    24.0    93.1    92.3     0.8
 SINGLE 311  : 34189 OTTUMWA5 - 34557 OTTUMWAY CKT: 1    22.5    22.3    24.0    24.0    93.0    92.2     0.8
 SINGLE 308  : 34188 OTTUMWA3 - 34557 OTTUMWAY CKT: 1    22.5    22.3    24.0    24.0    93.0    92.2     0.8
 SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1    22.4    22.2    24.0    24.0    92.9    92.0     0.9
 050    3    : ** MULTIPLE CONTINGENCY **                22.4    22.2    24.0    24.0    92.8    91.9     0.9
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
 825         : ** MULTIPLE CONTINGENCY **                22.4    22.2    24.0    24.0    92.8    92.0     0.8
             : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
             : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
             : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1
 SINGLE 110  : 34048 ANITA  5 - 34050 GU CTR 5 CKT: 1    22.3   .....    24.0   .....    92.5   .....   *NEW*

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 147) 61948 BYRON  5 - 61906 MAPLE LF CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1   520.6   520.2   372.0   372.0   139.8   139.7     0.1
 SINGLE 2894 : 60102 ADAMS  3 - 63032 PL VLLY3 CKT: 1   445.3   444.8   372.0   372.0   119.6   119.5     0.1
 SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   414.6   413.6   372.0   372.0   112.1   112.1     0.0
 825         : ** MULTIPLE CONTINGENCY **               412.7   412.7   372.0   372.0   109.5   109.4     0.1
             : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
             : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
             : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1
 ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **               377.3   375.9   372.0   372.0   101.6   101.5     0.1
             : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
 050    1    : ** MULTIPLE CONTINGENCY **               374.9   373.4   372.0   372.0   101.0   100.9     0.1
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
 SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1   347.4   347.0   372.0   372.0    91.5    91.4     0.1
 SINGLE 2714 : 34014 ADAMS  5 - 69547 ROCHSTR5 CKT: 1   338.2   337.8   372.0   372.0    90.7    90.5     0.2

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 148) 63875 RAUN   3 - 63884 NEAL  4G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   631.6   630.5   690.0   690.0    91.5    91.4     0.1
 825         : ** MULTIPLE CONTINGENCY **               625.2   624.3   690.0   690.0    90.6    90.5     0.1
             : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
             : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
             : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1
 050    1    : ** MULTIPLE CONTINGENCY **               624.8   623.8   690.0   690.0    90.5    90.4     0.1
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
 PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **               624.6   624.0   690.0   690.0    90.5    90.4     0.1
             : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
             : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
```

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 050     3    : ** MULTIPLE CONTINGENCY **                624.2   623.0   690.0   690.0    90.5    90.3     0.2
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
 SINGLE 56    : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1   624.1   623.2   690.0   690.0    90.4    90.3     0.1
 SINGLE 3521  : 66506 FTTHOMP3 - 66571 GR ISLD3 CKT: 1   623.5   623.3   690.0   690.0    90.4    90.3     0.1
 SINGLE 958   : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   623.6   622.6   690.0   690.0    90.4    90.2     0.2
 SINGLE 2989  : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1   622.9   622.0   690.0   690.0    90.3    90.1     0.2
 ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                 623.0   622.5   690.0   690.0    90.3    90.2     0.1
              : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
 SINGLE 3362  : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1   622.6   622.2   690.0   690.0    90.2    90.2     0.0
 SINGLE 1116  : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   621.2   .....   690.0   .....    90.0   .....   *NEW*

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 149) 64051 SEPOLK 5 - 64062 DMOINES5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 2820  : 34189 OTTUMWA5 - 34146 OTTUMW1G CKT: 1   163.1   162.2   167.0   167.0    96.4    95.8     0.6
 SINGLE 2754  : 34061 BNE JCT5 - 64205 FT.DODG5 CKT: 1   164.2   163.1   167.0   167.0    96.3    95.6     0.7
 SINGLE 285   : 34179 JASPER 5 - 34211 NEWTON 5 CKT: 1   158.9   158.0   167.0   167.0    93.2    92.6     0.6
 SINGLE 2813  : 34179 JASPER 5 - 64189 NEANKNY5 CKT: 1   158.8   157.7   167.0   167.0    93.1    92.4     0.7
 825          : ** MULTIPLE CONTINGENCY **                156.2   155.4   167.0   167.0    92.2    91.5     0.7
              : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
              : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
              : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1
 SINGLE 56    : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1   155.8   154.9   167.0   167.0    92.0    91.3     0.7
 SINGLE 951   : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1   154.8   154.8   167.0   167.0    91.0    91.0     0.0
 PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                 154.7   153.9   167.0   167.0    90.9    90.4     0.5
              : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
              : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
 SINGLE 959   : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   153.7   .....   167.0   .....    90.5   .....   *NEW*
 SINGLE 2809  : 34174 EICTAP 5 - 64096 BEACON 5 CKT: 1   153.5   .....   167.0   .....    90.2   .....   *NEW*
 SINGLE 2819  : 34188 OTTUMWA3 - 64095 MNTZUMA3 CKT: 1   153.4   .....   167.0   .....    90.1   .....   *NEW*
 SINGLE 2774  : 34091 ARNOLD 5 - 34090 ARNOLD1G CKT: 1   153.2   .....   167.0   .....    90.1   .....   *NEW*
 SINGLE 2744  : 34054 GR JCT 5 - 63771 DRAGER 5 CKT: 1   153.6   .....   167.0   .....    90.0   .....   *NEW*

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 150) 64064 BONDRNT3 - 64095 MNTZUMA3 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 56    : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1   914.6   900.1   926.0   926.0    96.7    95.0     1.7
 825          : ** MULTIPLE CONTINGENCY **                913.7   899.4   926.0   926.0    96.5    94.9     1.6
              : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
              : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
              : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1
 050     1    : ** MULTIPLE CONTINGENCY **                873.2   860.9   926.0   926.0    95.7    94.1     1.6
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
 SINGLE 2820  : 34189 OTTUMWA5 - 34146 OTTUMW1G CKT: 1   877.8   865.0   926.0   926.0    95.3    93.7     1.6
 SINGLE 2775  : 34093 ARNOLD 3 - 64352 TIFFIN 3 CKT: 1   881.1   866.9   926.0   926.0    95.1    93.4     1.7
 ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                 870.7   858.5   926.0   926.0    94.9    93.3     1.6
              : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
 050     2    : ** MULTIPLE CONTINGENCY **                869.7   857.4   926.0   926.0    94.9    93.3     1.6
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
 SINGLE 55    : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1   895.1   880.2   926.0   926.0    94.2    92.5     1.7
 050     3    : ** MULTIPLE CONTINGENCY **                859.8   846.9   926.0   926.0    93.8    92.1     1.7
```

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             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
 SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   886.7   871.7   926.0   926.0    93.5    91.8     1.7
 SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1   857.9   844.8   926.0   926.0    93.3    91.6     1.7
 SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1   879.7   873.3   926.0   926.0    92.7    92.0     0.7
 PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **               878.8   865.4   926.0   926.0    92.5    91.0     1.5
             : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
             : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
 SINGLE 300  : 34185 POWESHK5 - 34191 REASNOR5 CKT: 1   859.0   844.6   926.0   926.0    92.3    90.6     1.7
 SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   851.1   838.3   926.0   926.0    91.9    90.4     1.5
 SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   869.7   .....   926.0   .....    91.6   .....   *NEW*
 SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1   870.1   856.3   926.0   926.0    91.6    90.0     1.6
 SINGLE 2894 : 60102 ADAMS  3 - 63032 PL VLLY3 CKT: 1   863.0   .....   926.0   .....    90.8   .....   *NEW*
 SINGLE 2821 : 34191 REASNOR5 - 64062 DMOINES5 CKT: 1   841.1   .....   926.0   .....    90.3   .....   *NEW*

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 151) 64095 MNTZUMA3 - 64350 HILLS  3 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1   839.6   825.7   848.0   848.0    99.1    97.2     1.9
 825         : ** MULTIPLE CONTINGENCY **               840.0   826.3   848.0   848.0    99.0    97.3     1.7
             : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
             : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
             : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1
 SINGLE 2775 : 34093 ARNOLD 3 - 64352 TIFFIN 3 CKT: 1   829.9   815.4   848.0   848.0    97.8    95.9     1.9
 SINGLE 55   : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1   823.1   808.5   848.0   848.0    96.4    94.5     1.9
 050    1    : ** MULTIPLE CONTINGENCY **               802.7   789.8   848.0   848.0    96.0    94.2     1.8
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
 ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **               802.4   789.6   848.0   848.0    95.5    93.7     1.8
             : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
 050    2    : ** MULTIPLE CONTINGENCY **               801.3   788.1   848.0   848.0    95.5    93.7     1.8
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
 SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   806.4   791.9   848.0   848.0    94.9    93.0     1.9
 SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1   806.1   799.3   848.0   848.0    94.7    93.9     0.8
 PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **               805.6   792.6   848.0   848.0    94.6    93.0     1.6
             : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
             : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
 050    3    : ** MULTIPLE CONTINGENCY **               788.7   775.2   848.0   848.0    94.0    92.0     2.0
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
 SINGLE 173  : 34084 PARNEL 5 - 34185 POWESHK5 CKT: 1   799.6   784.7   848.0   848.0    93.8    92.0     1.8
 SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1   788.5   775.3   848.0   848.0    93.6    91.8     1.8
 SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1   795.3   782.0   848.0   848.0    93.4    91.7     1.7
 SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   792.4   778.4   848.0   848.0    93.1    91.3     1.8
 SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   786.9   774.0   848.0   848.0    92.8    91.1     1.7
 SINGLE 2769 : 34084 PARNEL 5 - 64351 HILLS  5 CKT: 1   789.2   774.3   848.0   848.0    92.5    90.7     1.8
 SINGLE 2894 : 60102 ADAMS  3 - 63032 PL VLLY3 CKT: 1   787.4   774.0   848.0   848.0    92.4    90.7     1.7
 SINGLE 292  : 34182 WAPELLO5 - 34183 JEFF   5 CKT: 1   786.2   772.0   848.0   848.0    92.2    90.4     1.8
 SINGLE 2774 : 34091 ARNOLD 5 - 34090 ARNOLD1G CKT: 1   779.5   766.3   848.0   848.0    92.0    90.3     1.7
 SINGLE 2819 : 34188 OTTUMWA3 - 64095 MNTZUMA3 CKT: 1   772.2   .....   848.0   .....    91.6   .....   *NEW*
 SINGLE 308  : 34188 OTTUMWA3 - 34557 OTTUMWAY CKT: 1   775.6   .....   848.0   .....    91.5   .....   *NEW*
 SINGLE 311  : 34189 OTTUMWA5 - 34557 OTTUMWAY CKT: 1   775.5   .....   848.0   .....    91.5   .....   *NEW*
 SINGLE 283  : 34178 HENRYCO5 - 34183 JEFF   5 CKT: 1   773.2   .....   848.0   .....    90.6   .....   *NEW*
 SINGLE 163  : 34079 TRAER  5 - 34087 DYSART 5 CKT: 1   772.6   .....   848.0   .....    90.6   .....   *NEW*
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 SINGLE 151  : 34068 M-TOWN 5 - 34079 TRAER  5 CKT: 1   768.9   .....   848.0   .....    90.2   .....   *NEW*
 SINGLE 295  : 34182 WAPELLO5 - 34189 OTTUMWA5 CKT: 2   770.2   .....   848.0   .....    90.2   .....   *NEW*

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 152) 64250 BLKHAWK5 - 64252 FLOYD  5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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 SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1   175.9   174.4   193.0   193.0    97.5    96.3     1.2
 825         : ** MULTIPLE CONTINGENCY **               171.1   169.6   193.0   193.0    94.4    93.3     1.1
             : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
             : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
             : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1

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 153) 34020 HAZL S 5 - 34439 HAZLTNS8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 58   : 34019 HAZLTON5 - 34440 HAZLTNN8 CKT: 1    29.7    29.6    30.0    30.0    99.1    98.8     0.3

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 154) 34131 COGGON 7 - 34133 DUNDEE 7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 60   : 34020 HAZL S 5 - 34135 DUNDEE 5 CKT: 1    52.6    52.5    60.0    60.0    91.1    90.9     0.2

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 155) 34019 HAZLTON5 - 34440 HAZLTNN8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 61   : 34020 HAZL S 5 - 34439 HAZLTNS8 CKT: 1    30.1    30.1    30.0    30.0   100.3   100.3     0.0

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 156) 34423 MONONA_8 - 68748 POST     CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 63   : 34022 LANSING5 - 34023 LANSING8 CKT: 1    51.3    51.2    45.0    45.0   111.0   110.8     0.2
 SINGLE 65   : 34023 LANSING8 - 34443 HARPTAP8 CKT: 1    49.4    49.3    45.0    45.0   106.9   106.6     0.3
 SINGLE 609  : 34443 HARPTAP8 - 34457 WAT TAP8 CKT: 1    48.7    48.6    45.0    45.0   105.4   105.3     0.1
 SINGLE 579  : 34423 MONONA_8 - 34457 WAT TAP8 CKT: 1    47.7    47.6    45.0    45.0   103.3   103.1     0.2

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 157) 34463 LORE W 8 - 34469 GARDLAN8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 635  : 34464 LORE E 8 - 34468 GL CAP18 CKT: 1    42.8    42.7    36.0    36.0   116.2   115.9     0.3
 SINGLE 639  : 34468 GL CAP18 - 34506 SHERILL8 CKT: 1    42.1    42.0    36.0    36.0   114.1   113.8     0.3
 SINGLE 637  : 34466 J DEERR8 - 34506 SHERILL8 CKT: 1    41.5    41.4    36.0    36.0   112.3   112.0     0.3
 SINGLE 80   : 34032 8TH ST.5 - 34473 DBQ 8TH8 CKT: 1    39.9    39.8    36.0    36.0   108.6   108.5     0.1
 SINGLE 641  : 34470 DBQ17TH8 - 34473 DBQ 8TH8 CKT: 1    37.6    37.6    36.0    36.0   102.6   102.5     0.1
 SINGLE 2728 : 34032 8TH ST.5 - 69505 GALENA 5 CKT: 1    34.2    34.2    36.0    36.0    92.6    92.3     0.3
 SINGLE 69   : 34028 LORE   5 - 34032 8TH ST.5 CKT: 1    33.9    33.8    36.0    36.0    92.1    91.7     0.4
 SINGLE 2775 : 34093 ARNOLD 3 - 64352 TIFFIN 3 CKT: 1    33.3    33.1    36.0    36.0    90.7    90.2     0.5
 SINGLE 636  : 34466 J DEERR8 - 34467 GL CAP28 CKT: 1    33.2   .....    36.0   .....    90.4   .....   *NEW*
 050    3    : ** MULTIPLE CONTINGENCY **                33.1   .....    36.0   .....    90.1   .....   *NEW*
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1

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 158) 34360 DYR E  8 - 34502 FARLEY_8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 71   : 34028 LORE   5 - 34129 LIBERTY5 CKT: 1    40.7    40.4    41.0    41.0    99.2    98.4     0.8

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 159) 34458 FARLEY 8 - 34459 EPWORTH8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 71   : 34028 LORE   5 - 34129 LIBERTY5 CKT: 1    37.9    37.6    41.0    41.0    92.6    91.8     0.8

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 160) 34458 FARLEY 8 - 34502 FARLEY_8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 71   : 34028 LORE   5 - 34129 LIBERTY5 CKT: 1    39.6    39.3    41.0    41.0    96.6    95.9     0.7

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 161) 34041 BEVCHN28 - 34330 ADM100 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 96   : 34040 BEVCHN18 - 34333 ADM    8 CKT: 1   139.8   139.8    72.0    72.0   199.1   199.2    -0.1
  SINGLE 93   : 34040 BEVCHN18 - 34041 BEVCHN28 CKT: 1    74.4    74.4    72.0    72.0   103.5   103.5     0.0

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 162) 34038 BVR CH 5 - 34041 BEVCHN28 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 94   : 34040 BEVCHN18 - 34042 BVR CH65 CKT: 1    69.5    69.5    74.7    74.7    93.1    93.1     0.0

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 163) 34040 BEVCHN18 - 34041 BEVCHN28 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 94   : 34040 BEVCHN18 - 34042 BVR CH65 CKT: 1   117.8   117.8   126.0   126.0    94.7    94.7     0.0

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 164) 34330 ADM100 8 - 34333 ADM    8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 96   : 34040 BEVCHN18 - 34333 ADM    8 CKT: 1    97.6    97.6   104.0   104.0    96.6    96.6     0.0

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 165) 34040 BEVCHN18 - 34333 ADM    8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 100  : 34041 BEVCHN28 - 34330 ADM100 8 CKT: 1   139.5   139.5   103.0   103.0   136.5   136.6    -0.1
  SINGLE 509  : 34330 ADM100 8 - 34333 ADM    8 CKT: 1    97.6    97.6   103.0   103.0    94.9    94.9     0.0

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 166) 34059 BOONE  7 - 34076 BNE JCT7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 132  : 34059 BOONE  7 - 34073 GR JCT 7 CKT: 1    72.0    72.0    60.0    60.0   117.2   117.1     0.1
  SINGLE 157  : 34073 GR JCT 7 - 34529 GRJCT5Y  CKT: 1    71.9    71.9    60.0    60.0   116.8   116.7     0.1
  SINGLE 122  : 34054 GR JCT 5 - 34529 GRJCT5Y  CKT: 1    71.9    71.9    60.0    60.0   116.7   116.6     0.1
  SINGLE 2744 : 34054 GR JCT 5 - 63771 DRAGER 5 CKT: 1    70.3    70.2    60.0    60.0   116.4   116.1     0.3
  SINGLE 110  : 34048 ANITA  5 - 34050 GU CTR 5 CKT: 1    60.7    60.7    60.0    60.0   100.5   100.3     0.2
  SINGLE 117  : 34052 AMES   7 - 34076 BNE JCT7 CKT: 1    60.4    60.3    60.0    60.0    99.8    99.6     0.2
  SINGLE 112  : 34049 SCRANTN5 - 34050 GU CTR 5 CKT: 1    58.1    58.1    60.0    60.0    96.1    96.0     0.1
  SINGLE 136  : 34061 BNE JCT5 - 34062 BNE JCT8 CKT: 1    58.3    58.3    60.0    60.0    95.7    95.7     0.0
  SINGLE 2755 : 34062 BNE JCT8 - 64504 STANGE8  CKT: 1    58.3    58.3    60.0    60.0    95.7    95.7     0.0
  SINGLE 2513 : 66561 DENISON5 - 66567 DENISON4 CKT: 1    57.8    57.7    60.0    60.0    95.4    95.2     0.2
  SINGLE 113  : 34049 SCRANTN5 - 34054 GR JCT 5 CKT: 1    57.1    57.1    60.0    60.0    94.4    94.3     0.1
  SINGLE 2750 : 34059 BOONE  7 - 34163 BOONE  9 CKT: 1    56.6    56.0    60.0    60.0    93.7    92.9     0.8
  SINGLE 2751 : 34059 BOONE  7 - 34163 BOONE  9 CKT: 2    56.5    55.9    60.0    60.0    93.5    92.7     0.8
  SINGLE 2821 : 34191 REASNOR5 - 64062 DMOINES5 CKT: 1    55.3    55.3    60.0    60.0    91.3    91.2     0.1

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 167) 63771 DRAGER 5 - 63900 CARROLL5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 2513 : 66561 DENISON5 - 66567 DENISON4 CKT: 1   130.1   128.7   140.0   140.0    95.1    93.8     1.3
  SINGLE 109  : 34047 ANTA TP5 - 66561 DENISON5 CKT: 1   129.0   127.5   140.0   140.0    94.5    93.2     1.3
  SINGLE 107  : 34047 ANTA TP5 - 34048 ANITA  5 CKT: 1   125.7   124.3   140.0   140.0    92.3    91.1     1.2
  SINGLE 110  : 34048 ANITA  5 - 34050 GU CTR 5 CKT: 1   123.5   .....   140.0   .....    91.0   .....   *NEW*
  825         : ** MULTIPLE CONTINGENCY **               123.8   .....   140.0   .....    90.2   .....   *NEW*
              : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
              : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
              : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1

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 168) 63801 CBLUFFS5 - 63817 BUNGE 5  CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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 SINGLE 2513 : 66561 DENISON5 - 66567 DENISON4 CKT: 1   186.8   186.0   192.0   192.0    94.8    94.3     0.5
 SINGLE 109  : 34047 ANTA TP5 - 66561 DENISON5 CKT: 1   186.5   185.6   192.0   192.0    94.6    94.1     0.5
 SINGLE 2520 : 66565 SIOUXCY4 - 66567 DENISON4 CKT: 1   183.4   182.6   192.0   192.0    93.0    92.6     0.4
 050    1    : ** MULTIPLE CONTINGENCY **               179.9   179.0   192.0   192.0    91.3    90.9     0.4
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
 SINGLE 108  : 34047 ANTA TP5 - 66560 CRESTON5 CKT: 1   179.8   178.9   192.0   192.0    91.2    90.7     0.5
 050    3    : ** MULTIPLE CONTINGENCY **               178.8   177.8   192.0   192.0    90.7    90.2     0.5
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
 050    2    : ** MULTIPLE CONTINGENCY **               178.5   177.9   192.0   192.0    90.6    90.3     0.3
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
 ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **               178.4   177.6   192.0   192.0    90.5    90.1     0.4
             : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
 SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1   177.7   .....   192.0   .....    90.2   .....   *NEW*

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 169) 34099 PRAR CK7 - 34117 SUTLIFF7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
 SINGLE 2775 : 34093 ARNOLD 3 - 64352 TIFFIN 3 CKT: 1    81.5    80.8    80.0    80.0    98.9    98.0     0.9
 SINGLE 118  : 34053 MT VERN5 - 34109 BERTRAM5 CKT: 1    79.6    79.3    80.0    80.0    96.6    96.2     0.4
 SINGLE 119  : 34053 MT VERN5 - 34127 WYOMING5 CKT: 1    76.8    76.4    80.0    80.0    93.2    92.8     0.4
 SINGLE 198  : 34108 BERTRAM7 - 34537 BERTRAMY CKT: 1    75.6    75.2    80.0    80.0    91.8    91.3     0.5
 SINGLE 200  : 34109 BERTRAM5 - 34537 BERTRAMY CKT: 1    75.6    75.2    80.0    80.0    91.8    91.3     0.5
 SINGLE 187  : 34099 PRAR CK7 - 34108 BERTRAM7 CKT: 1    75.6    75.2    80.0    80.0    91.8    91.3     0.5

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 170) 34054 GR JCT 5 - 34529 GRJCT5Y  CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
 SINGLE 120  : 34054 GR JCT 5 - 34058 PERRY  5 CKT: 1    68.2    67.3    50.0    50.0   136.3   134.7     1.6
 SINGLE 2754 : 34061 BNE JCT5 - 64205 FT.DODG5 CKT: 1    60.4    60.0    50.0    50.0   120.7   119.9     0.8

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 171) 34059 BOONE  7 - 34073 GR JCT 7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
 SINGLE 120  : 34054 GR JCT 5 - 34058 PERRY  5 CKT: 1    68.3    67.5    50.0    50.0   137.0   135.2     1.8
 SINGLE 2754 : 34061 BNE JCT5 - 64205 FT.DODG5 CKT: 1    60.5    60.1    50.0    50.0   122.2   121.7     0.5
 SINGLE 137  : 34061 BNE JCT5 - 34076 BNE JCT7 CKT: 2    44.5   .....    50.0   .....    90.0   .....   *NEW*

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 172) 34073 GR JCT 7 - 34529 GRJCT5Y  CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
 SINGLE 120  : 34054 GR JCT 5 - 34058 PERRY  5 CKT: 1    68.3    67.5    50.0    50.0   136.6   135.0     1.6
 SINGLE 2754 : 34061 BNE JCT5 - 64205 FT.DODG5 CKT: 1    60.5    60.1    50.0    50.0   121.0   120.2     0.8

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 173) 34061 BNE JCT5 - 34076 BNE JCT7 CKT:  3          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
 SINGLE 137  : 34061 BNE JCT5 - 34076 BNE JCT7 CKT: 2    70.8    70.5    45.0    45.0   157.4   156.6     0.8
 SINGLE 132  : 34059 BOONE  7 - 34073 GR JCT 7 CKT: 1    42.4    42.2    45.0    45.0    94.3    93.8     0.5
 SINGLE 122  : 34054 GR JCT 5 - 34529 GRJCT5Y  CKT: 1    42.5    42.2    45.0    45.0    94.3    93.8     0.5
 SINGLE 157  : 34073 GR JCT 7 - 34529 GRJCT5Y  CKT: 1    42.4    42.2    45.0    45.0    94.2    93.7     0.5
 SINGLE 2744 : 34054 GR JCT 5 - 63771 DRAGER 5 CKT: 1    41.6    41.4    45.0    45.0    92.4    91.9     0.5
```

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==================================================================================================================
 174) 34757 PCI EAST - 34760 OAKRIDGE CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 196  : 34106 PCI    5 - 34536 PCI    Y CKT: 1    91.1    91.1    96.0    96.0    97.6    97.6     0.0
  SINGLE 261  : 34151 PCI    8 - 34536 PCI    Y CKT: 1    91.1    91.1    96.0    96.0    97.6    97.6     0.0

==================================================================================================================
 175) 34760 OAKRIDGE - 34761 KIRKWOOD CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 196  : 34106 PCI    5 - 34536 PCI    Y CKT: 1    91.4    91.4    96.0    96.0    97.6    97.6     0.0
  SINGLE 261  : 34151 PCI    8 - 34536 PCI    Y CKT: 1    91.4    91.4    96.0    96.0    97.6    97.6     0.0

==================================================================================================================
 176) 34125 GR MND 8 - 34819 GRMND TW CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1    22.2    22.2    21.0    21.0   132.8   132.8     0.0
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1    22.2    22.2    21.0    21.0   132.8   132.8     0.0
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1    22.1    22.1    21.0    21.0   132.3   132.2     0.1

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 177) 34817 DOME TAP - 34819 GRMND TW CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1    22.6    22.6    21.0    21.0   132.8   132.8     0.0
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1    22.6    22.6    21.0    21.0   132.8   132.8     0.0
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1    22.6    22.6    21.0    21.0   132.3   132.3     0.0

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 178) 34138 DUNDEE 8 - 34543 DUNDEE2Y CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 234  : 34129 LIBERTY5 - 34135 DUNDEE 5 CKT: 1    82.1    82.0    59.0    59.0   139.2   139.0     0.2
  SINGLE 593  : 34431 W UNION8 - 34446 FAYETTE8 CKT: 1    56.5    56.5    59.0    59.0    95.8    95.7     0.1
  SINGLE 235  : 34129 LIBERTY5 - 34541 LIBERTYY CKT: 1    54.6    54.6    59.0    59.0    92.6    92.6     0.0
  SINGLE 232  : 34128 LIBERTY8 - 34541 LIBERTYY CKT: 1    54.6    54.6    59.0    59.0    92.6    92.6     0.0
  SINGLE 612  : 34446 FAYETTE8 - 34447 FAYETTJ8 CKT: 1    54.3    54.2    59.0    59.0    92.0    91.9     0.1

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 179) 34135 DUNDEE 5 - 34543 DUNDEE2Y CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 234  : 34129 LIBERTY5 - 34135 DUNDEE 5 CKT: 1    82.2    82.1    84.0    84.0    97.9    97.7     0.2

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 180) 34003 MAGNLIA5 - 34215 MAGNLIA8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 244  : 34136 TRIBOJI8 - 34906 FLYCLD 8 CKT: 1    43.8    43.8    30.0    30.0   146.1   146.0     0.1

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 181) 34136 TRIBOJI8 - 63732 MILFRDJ8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 3550 : 66563 SPENCER5 - 63713 OSGOOD 5 CKT: 1    40.0    38.9    41.0    41.0    92.7    90.3     2.4

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 182) 34587 MURRAY 8 - 34658 OSCEOLA8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2820 : 34189 OTTUMWA5 - 34146 OTTUMW1G CKT: 1    36.6    36.3    36.0    36.0   102.0   101.1     0.9
  SINGLE 741  : 34641 KELLERT8 - 34643 GRRIVER8 CKT: 1    36.6    36.2    36.0    36.0    99.8    98.7     1.1
  SINGLE 738  : 34639 LEON 8   - 34641 KELLERT8 CKT: 1    36.6    36.2    36.0    36.0    99.7    98.6     1.1
  SINGLE 737  : 34636 CLIO T8  - 34639 LEON 8   CKT: 1    36.6    36.2    36.0    36.0    99.6    98.4     1.2
  SINGLE 277  : 34175 CORYDON8 - 34635 ALERTON8 CKT: 1    36.5    36.1    36.0    36.0    99.3    98.1     1.2
  SINGLE 734  : 34635 ALERTON8 - 34636 CLIO T8  CKT: 1    36.5    36.1    36.0    36.0    99.3    98.2     1.1

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 183) 34590 GRDRVRE8 - 34643 GRRIVER8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
```

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 SINGLE 749  : 34650 ARISTAP8 - 34653 CRESTN8_ CKT: 1    20.7    20.5    12.0    12.0   170.8   169.4     1.4
 SINGLE 747  : 34648 LENXTAP8 - 34650 ARISTAP8 CKT: 1    20.6    20.4    12.0    12.0   170.4   169.0     1.4
 SINGLE 745  : 34647 DIAGONL8 - 34648 LENXTAP8 CKT: 1    20.5    20.3    12.0    12.0   169.7   168.2     1.5
 SINGLE 279  : 34176 MT AYR 8 - 34647 DIAGONL8 CKT: 1    20.4    20.2    12.0    12.0   169.1   167.7     1.4
 SINGLE 689  : 34587 MURRAY 8 - 34658 OSCEOLA8 CKT: 1    18.1    17.9    12.0    12.0   150.4   148.9     1.5
 SINGLE 739  : 34640 WODBURN8 - 34659 OSCEREC8 CKT: 1    17.6    17.4    12.0    12.0   144.6   143.0     1.6
 SINGLE 755  : 34658 OSCEOLA8 - 34659 OSCEREC8 CKT: 1    17.6    17.4    12.0    12.0   144.6   143.1     1.5
 SINGLE 726  : 34625 LACONA 8 - 34640 WODBURN8 CKT: 1    17.5    17.4    12.0    12.0   143.8   142.3     1.5
 SINGLE 328  : 34202 LUCAS  8 - 34627 LUCAS T8 CKT: 1    17.5    17.4    12.0    12.0   143.7   142.1     1.6
 SINGLE 725  : 34625 LACONA 8 - 34627 LUCAS T8 CKT: 1    17.5    17.4    12.0    12.0   143.7   142.2     1.5
 SINGLE 278  : 34176 MT AYR 8 - 34646 BEACNRC8 CKT: 1    15.6    15.5    12.0    12.0   127.6   126.2     1.4
 SINGLE 744  : 34644 ELLSTNR8 - 34646 BEACNRC8 CKT: 1    15.6    15.5    12.0    12.0   127.5   126.1     1.4
 SINGLE 742  : 34643 GRRIVER8 - 34644 ELLSTNR8 CKT: 1    15.4    15.3    12.0    12.0   126.2   124.7     1.5
 SINGLE 686  : 34585 LORIMRR8 - 34588 SLAKEN 8 CKT: 1    12.1    12.0    12.0    12.0    99.2    98.1     1.1
 SINGLE 685  : 34585 LORIMRR8 - 34586 LORIMOR8 CKT: 1    12.0    11.9    12.0    12.0    98.6    97.5     1.1
 SINGLE 687  : 34586 LORIMOR8 - 34587 MURRAY 8 CKT: 1    11.9    11.8    12.0    12.0    97.9    96.8     1.1

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 184) 34585 LORIMRR8 - 34588 SLAKEN 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 749  : 34650 ARISTAP8 - 34653 CRESTN8_ CKT: 1    47.1    46.6    48.0    48.0    97.1    96.1     1.0
 SINGLE 747  : 34648 LENXTAP8 - 34650 ARISTAP8 CKT: 1    47.0    46.5    48.0    48.0    97.0    96.0     1.0
 SINGLE 745  : 34647 DIAGONL8 - 34648 LENXTAP8 CKT: 1    46.9    46.4    48.0    48.0    96.8    95.8     1.0
 SINGLE 279  : 34176 MT AYR 8 - 34647 DIAGONL8 CKT: 1    46.8    46.4    48.0    48.0    96.6    95.7     0.9
 SINGLE 2820 : 34189 OTTUMWA5 - 34146 OTTUMW1G CKT: 1    45.4    45.0    48.0    48.0    93.7    92.9     0.8

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 185) 34586 LORIMOR8 - 34587 MURRAY 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 749  : 34650 ARISTAP8 - 34653 CRESTN8_ CKT: 1    46.9    46.5    48.0    48.0    96.8    95.8     1.0
 SINGLE 747  : 34648 LENXTAP8 - 34650 ARISTAP8 CKT: 1    46.9    46.4    48.0    48.0    96.7    95.7     1.0
 SINGLE 745  : 34647 DIAGONL8 - 34648 LENXTAP8 CKT: 1    46.8    46.3    48.0    48.0    96.5    95.5     1.0
 SINGLE 279  : 34176 MT AYR 8 - 34647 DIAGONL8 CKT: 1    46.7    46.2    48.0    48.0    96.3    95.4     0.9
 SINGLE 2820 : 34189 OTTUMWA5 - 34146 OTTUMW1G CKT: 1    44.7    44.4    48.0    48.0    93.5    92.6     0.9

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 186) 34183 JEFF   5 - 34560 JEFFCO Y CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 283  : 34178 HENRYCO5 - 34183 JEFF   5 CKT: 1    80.7    80.3    84.0    84.0    96.0    95.6     0.4

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 187) 34194 JEFF   8 - 34560 JEFFCO Y CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 283  : 34178 HENRYCO5 - 34183 JEFF   5 CKT: 1    80.7    80.3    84.0    84.0    96.0    95.6     0.4

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 188) 34211 NEWTON 5 - 34561 NEWTON Y CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 286  : 34179 JASPER 5 - 34549 JASPER Y CKT: 1    78.2    78.0    84.0    84.0    93.1    92.8     0.3
 SINGLE 332  : 34204 JASPER 8 - 34549 JASPER Y CKT: 1    78.2    78.0    84.0    84.0    93.1    92.8     0.3
 SINGLE 333  : 34204 JASPER 8 - 34574 AURORA 8 CKT: 1    78.2    78.0    84.0    84.0    93.1    92.8     0.3

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 189) 34212 NEWTON 8 - 34561 NEWTON Y CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 286  : 34179 JASPER 5 - 34549 JASPER Y CKT: 1    78.5    78.3    84.0    84.0    93.5    93.2     0.3
 SINGLE 332  : 34204 JASPER 8 - 34549 JASPER Y CKT: 1    78.5    78.3    84.0    84.0    93.5    93.2     0.3
 SINGLE 333  : 34204 JASPER 8 - 34574 AURORA 8 CKT: 1    78.5    78.3    84.0    84.0    93.5    93.2     0.3

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 190) 34182 WAPELLO5 - 34189 OTTUMWA5 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 294  : 34182 WAPELLO5 - 34189 OTTUMWA5 CKT: 1   324.1   323.4   335.0   335.0    95.8    95.6     0.2
```

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==================================================================================================================
 191) 34182 WAPELLO5 - 34189 OTTUMWA5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 295  : 34182 WAPELLO5 - 34189 OTTUMWA5 CKT: 2   313.0   312.4   335.0   335.0    92.7    92.5     0.2

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 192) 34182 WAPELLO5 - 34553 WAPELO2Y CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 296  : 34182 WAPELLO5 - 34552 WAPELO1Y CKT: 1   159.9   159.7   131.0   131.0   122.1   121.9     0.2
  SINGLE 337  : 34206 WAPELLO8 - 34552 WAPELO1Y CKT: 1   159.9   159.7   131.0   131.0   122.1   121.9     0.2
  WAPELLO T1  : ** MULTIPLE CONTINGENCY **               159.9   159.7   131.0   131.0   122.1   121.9     0.2
              : 34552 WAPELO1Y - 34182 WAPELLO5 CKT: 1
              : 34552 WAPELO1Y - 34206 WAPELLO8 CKT: 1

==================================================================================================================
 193) 34206 WAPELLO8 - 34553 WAPELO2Y CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 296  : 34182 WAPELLO5 - 34552 WAPELO1Y CKT: 1   159.4   159.2   131.0   131.0   121.7   121.5     0.2
  SINGLE 337  : 34206 WAPELLO8 - 34552 WAPELO1Y CKT: 1   159.4   159.2   131.0   131.0   121.7   121.5     0.2
  WAPELLO T1  : ** MULTIPLE CONTINGENCY **               159.4   159.2   131.0   131.0   121.7   121.5     0.2
              : 34552 WAPELO1Y - 34182 WAPELLO5 CKT: 1
              : 34552 WAPELO1Y - 34206 WAPELLO8 CKT: 1

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 194) 34182 WAPELLO5 - 34552 WAPELO1Y CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 297  : 34182 WAPELLO5 - 34553 WAPELO2Y CKT: 2   159.7   159.5   131.0   131.0   121.9   121.7     0.2
  SINGLE 338  : 34206 WAPELLO8 - 34553 WAPELO2Y CKT: 2   159.7   159.5   131.0   131.0   121.9   121.7     0.2
  WAPELLO T2  : ** MULTIPLE CONTINGENCY **               159.7   159.5   131.0   131.0   121.9   121.7     0.2
              : 34553 WAPELO2Y - 34182 WAPELLO5 CKT: 2
              : 34553 WAPELO2Y - 34206 WAPELLO8 CKT: 2

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 195) 34206 WAPELLO8 - 34552 WAPELO1Y CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 297  : 34182 WAPELLO5 - 34553 WAPELO2Y CKT: 2   159.2   158.9   131.0   131.0   121.5   121.3     0.2
  SINGLE 338  : 34206 WAPELLO8 - 34553 WAPELO2Y CKT: 2   159.2   158.9   131.0   131.0   121.5   121.3     0.2
  WAPELLO T2  : ** MULTIPLE CONTINGENCY **               159.2   158.9   131.0   131.0   121.5   121.3     0.2
              : 34553 WAPELO2Y - 34182 WAPELLO5 CKT: 2
              : 34553 WAPELO2Y - 34206 WAPELLO8 CKT: 2

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 196) 34178 HENRYCO5 - 96439 2HENRY   CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 298  : 34183 JEFF   5 - 34560 JEFFCO Y CKT: 1    53.5    53.2    56.0    56.0    95.6    95.0     0.6
  SINGLE 316  : 34194 JEFF   8 - 34560 JEFFCO Y CKT: 1    53.5    53.2    56.0    56.0    95.6    95.0     0.6

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 197) 34203 GRINNEL8 - 34607 GRNCTTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 300  : 34185 POWESHK5 - 34191 REASNOR5 CKT: 1    72.1    71.5    72.0    72.0    97.6    96.7     0.9

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 198) 34203 GRINNEL8 - 34608 SGRINNL8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 300  : 34185 POWESHK5 - 34191 REASNOR5 CKT: 1    45.3    44.7    48.0    48.0    93.0    91.7     1.3

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 199) 34185 POWESHK5 - 34191 REASNOR5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2820 : 34189 OTTUMWA5 - 34146 OTTUMW1G CKT: 1   178.3   176.2   167.0   167.0   107.1   105.7     1.4
  SINGLE 330  : 34203 GRINNEL8 - 34607 GRNCTTP8 CKT: 1   163.7   161.3   167.0   167.0    97.2    95.7     1.5
```

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 SINGLE 2775 : 34093 ARNOLD 3 - 64352 TIFFIN 3 CKT: 1   158.9   156.2   167.0   167.0    94.3    92.6     1.7
 050    1    : ** MULTIPLE CONTINGENCY **               155.0   152.8   167.0   167.0    92.9    91.4     1.5
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
 050    3    : ** MULTIPLE CONTINGENCY **               152.9   .....   167.0   .....    91.4   .....   *NEW*
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
 050    2    : ** MULTIPLE CONTINGENCY **               152.9   150.8   167.0   167.0    91.4    90.0     1.4
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
 ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **               152.8   .....   167.0   .....    91.3   .....   *NEW*
             : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
 SINGLE 2809 : 34174 EICTAP 5 - 64096 BEACON 5 CKT: 1   152.2   .....   167.0   .....    91.1   .....   *NEW*
 SINGLE 2819 : 34188 OTTUMWA3 - 64095 MNTZUMA3 CKT: 1   152.3   .....   167.0   .....    90.5   .....   *NEW*
 SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1   151.3   .....   167.0   .....    90.3   .....   *NEW*
 SINGLE 308  : 34188 OTTUMWA3 - 34557 OTTUMWAY CKT: 1   152.0   .....   167.0   .....    90.2   .....   *NEW*
 SINGLE 311  : 34189 OTTUMWA5 - 34557 OTTUMWAY CKT: 1   152.0   .....   167.0   .....    90.2   .....   *NEW*

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 200) 34573 N CENT8  - 34622 ISW TAP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 325  : 34200 CNTRVIL8 - 34573 N CENT8  CKT: 1    56.3    56.3    39.0    39.0   141.2   141.2     0.0

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 201) 34895 TRAILTP8 - 96487 2TRAIL   CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 325  : 34200 CNTRVIL8 - 34573 N CENT8  CKT: 1    40.4    40.3    44.0    44.0    91.3    91.2     0.1

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 202) 34574 AURORA 8 - 34605 KELLOGG8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 330  : 34203 GRINNEL8 - 34607 GRNCTTP8 CKT: 1    45.1    45.1    48.0    48.0    92.4    92.4     0.0

==================================================================================================================
 203) 34204 JASPER 8 - 34574 AURORA 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 354  : 34211 NEWTON 5 - 34561 NEWTON Y CKT: 1    70.9    70.7    72.0    72.0    96.8    96.5     0.3
 SINGLE 355  : 34212 NEWTON 8 - 34561 NEWTON Y CKT: 1    70.9    70.7    72.0    72.0    96.8    96.5     0.3

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 204) 34393 MCHW1068 - 34394 MC 5DEL8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 539  : 34384 MCARMOR8 - 34396 EMERY N8 CKT: 1    57.5    57.2    60.0    60.0    98.0    97.5     0.5

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 205) 34464 LORE E 8 - 34468 GL CAP18 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 633  : 34463 LORE W 8 - 34469 GARDLAN8 CKT: 1    35.3    35.2    36.0    36.0    95.8    95.6     0.2

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 206) 34653 CRESTN8_ - 34654 ECRESTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 690  : 34588 SLAKEN 8 - 34592 SLAKES 8 CKT: 1    41.3    41.1    35.0    35.0   119.0   118.4     0.6

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 207) 34654 ECRESTP8 - 66569 CRESTON8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
```

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 SINGLE 690  : 34588 SLAKEN 8 - 34592 SLAKES 8 CKT: 1    42.1    41.9    45.0    45.0    92.7    92.3     0.4

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 208) 61748 BOSWELL7 - 61777 BOSWE72G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
 050    1    : ** MULTIPLE CONTINGENCY **                70.4    70.4    78.0    78.0    90.3    90.3     0.0
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
 050    3    : ** MULTIPLE CONTINGENCY **                70.3   .....    78.0   .....    90.2   .....   *NEW*
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
 SINGLE 942  : 60100 FORBECA2 - 60101 FORBES 2 CKT: 1    70.2   .....    78.0   .....    90.1   .....   *NEW*
 SINGLE 1114 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   .....    70.2   .....    78.0   .....    90.1  *ELIM*

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 209) 60786 DUNDAS 8 - 60787 NOFIELD8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
 SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    62.8    62.2    48.0    48.0   136.5   135.2     1.3
 SINGLE 1696 : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1    49.6    49.3    48.0    48.0   106.9   106.2     0.7
 BYN-WOW/KAN5: ** MULTIPLE CONTINGENCY **                49.6    49.3    48.0    48.0   106.7   106.0     0.7
             : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1
             : 61161 BYRON  8 - 60799 KASSON 8 CKT: 1
 SINGLE 1697 : 61952 S FARIB5 - 61964 OWATNNA5 CKT: 1    49.3    49.0    48.0    48.0   106.1   105.4     0.7
 SINGLE 955  : 60107 W FARIB7 - 61952 S FARIB5 CKT: 1    49.3    49.0    48.0    48.0   106.1   105.4     0.7
 700    1    : ** MULTIPLE CONTINGENCY **                44.0    43.7    48.0    48.0    94.6    94.0     0.6
             : 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1
             : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
             : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1
 SINGLE 1463 : 60791 FARIBLT8 - 60794 NRSTRND8 CKT: P    43.5    43.2    48.0    48.0    93.0    92.3     0.7
 SINGLE 3115 : 60794 NRSTRND8 - 62389 KENYON 8 CKT: 1    43.1    42.8    48.0    48.0    92.1    91.5     0.6
 SINGLE 3117 : 60797 KENYNTP8 - 62389 KENYON 8 CKT: 1    42.9    42.6    48.0    48.0    91.7    91.0     0.7
 IVH-BLL/RRK3: ** MULTIPLE CONTINGENCY **                42.6    42.3    48.0    48.0    91.7    91.0     0.7
             : 60217 INVRHLS3 - 60192 BLUE LK3 CKT: 1
             : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1
 SINGLE 1466 : 60796 KENYON 8 - 60797 KENYNTP8 CKT: 1    42.2   .....    48.0   .....    90.2   .....   *NEW*
 SINGLE 947  : 60105 PR ISLD3 - 60106 PR ISLD5 CKT: 1    41.1   .....    48.0   .....    90.1   .....   *NEW*

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 210) 60790 FAIRPRK8 - 60792 WFARBLT8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
 SINGLE 1462 : 60791 FARIBLT8 - 60792 WFARBLT8 CKT: 1   105.3   104.7    66.0    66.0   154.9   154.0     0.9
 SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    75.6    74.9    66.0    66.0   111.3   110.3     1.0
 SINGLE 1460 : 60790 FAIRPRK8 - 60791 FARIBLT8 CKT: 1    70.8    70.3    66.0    66.0   104.1   103.5     0.6
 SINGLE 1696 : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1    65.0    64.6    66.0    66.0    95.6    95.1     0.5
 BYN-WOW/KAN5: ** MULTIPLE CONTINGENCY **                64.9    64.6    66.0    66.0    95.5    95.0     0.5
             : 61948 BYRON  5 - 61964 OWATNNA5 CKT: 1
             : 61161 BYRON  8 - 60799 KASSON 8 CKT: 1
 SINGLE 1697 : 61952 S FARIB5 - 61964 OWATNNA5 CKT: 1    64.7    64.3    66.0    66.0    95.1    94.6     0.5
 SINGLE 955  : 60107 W FARIB7 - 61952 S FARIB5 CKT: 1    64.7    64.3    66.0    66.0    95.1    94.6     0.5
 SPC-PRI/CTF5: ** MULTIPLE CONTINGENCY **                61.1    60.6    66.0    66.0    91.3    90.7     0.6
             : 63071 SPRNGCK5 - 60106 PR ISLD5 CKT: 1
             : 63071 SPRNGCK5 - 60103 CANNFLS5 CKT: 1
 740    1    : ** MULTIPLE CONTINGENCY **                61.1    60.6    66.0    66.0    91.3    90.7     0.6
             : 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1
             : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1
             : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1
 SINGLE 2899 : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1    60.8    60.5    66.0    66.0    91.0    90.5     0.5
 SINGLE 947  : 60105 PR ISLD3 - 60106 PR ISLD5 CKT: 1    60.8    60.5    66.0    66.0    91.0    90.5     0.5
```

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 211) 60794 NRSTRND8 - 62389 KENYON 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    41.1    40.7    37.0    37.0   108.1   107.1     1.0
  SPC-PRI/CTF5: ** MULTIPLE CONTINGENCY **                36.8    36.5    37.0    37.0    98.0    97.5     0.5
              : 63071 SPRNGCK5 - 60106 PR ISLD5 CKT: 1
              : 63071 SPRNGCK5 - 60103 CANNFLS5 CKT: 1
  740    1    : ** MULTIPLE CONTINGENCY **                36.8    36.5    37.0    37.0    98.0    97.5     0.5
              : 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1
              : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1
              : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1
  SINGLE 947  : 60105 PR ISLD3 - 60106 PR ISLD5 CKT: 1    34.2    34.1    37.0    37.0    91.3    90.8     0.5
  SINGLE 2899 : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1    34.2    34.0    37.0    37.0    91.3    90.8     0.5
  SINGLE 1459 : 60789 CIRCLTP8 - 60790 FAIRPRK8 CKT: 1    34.6   .....    37.0   .....    90.7   .....   *NEW*

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 212) 60107 W FARIB7 - 62865 AIRTECH7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1   148.2   146.2   139.0   139.0   107.3   106.1     1.2

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 213) 60805 WATRVIL8 - 62679 ELYSNTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    48.9    48.1    37.0    37.0   129.1   127.2     1.9
  SINGLE 1275 : 60265 LOON TP7 - 60830 EASTWD18 CKT: P    47.9    47.4    37.0    37.0   127.0   125.6     1.4
  SINGLE 952  : 60107 W FARIB7 - 60265 LOON TP7 CKT: C    43.3    42.8    37.0    37.0   114.6   113.3     1.3
  SINGLE 954  : 60107 W FARIB7 - 60792 WFARBLT8 CKT: P    34.8    34.5    37.0    37.0    92.0    91.2     0.8

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 214) 60808 EAGLELK8 - 62679 ELYSNTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    51.2    50.4    48.0    48.0   103.1   101.7     1.4
  SINGLE 1275 : 60265 LOON TP7 - 60830 EASTWD18 CKT: P    50.1    49.6    48.0    48.0   101.5   100.4     1.1
  SINGLE 952  : 60107 W FARIB7 - 60265 LOON TP7 CKT: C    45.4    44.9    48.0    48.0    92.0    90.9     1.1

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 215) 60107 W FARIB7 - 60792 WFARBLT8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 954  : 60107 W FARIB7 - 60792 WFARBLT8 CKT: P    70.6    70.2    70.0    70.0   100.9   100.2     0.7

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 216) 34016 EMERY  5 - 34912 EMERYST1 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1   279.0   278.7   300.0   300.0    93.0    92.9     0.1
  PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **               279.0   278.0   300.0   300.0    93.0    92.7     0.3
              : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
              : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
  SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1   277.6   276.9   300.0   300.0    92.5    92.3     0.2
  SINGLE 2716 : 34016 EMERY  5 - 34911 EMERYGT2 CKT: 1   276.2   274.7   300.0   300.0    92.1    91.6     0.5
  SINGLE 2715 : 34016 EMERY  5 - 34910 EMERYGT1 CKT: 1   276.2   274.7   300.0   300.0    92.1    91.6     0.5
  050    1    : ** MULTIPLE CONTINGENCY **               273.8   272.3   300.0   300.0    91.3    90.8     0.5
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
  SINGLE 2894 : 60102 ADAMS  3 - 63032 PL VLLY3 CKT: 1   273.6   272.3   300.0   300.0    91.2    90.8     0.4
  050    2    : ** MULTIPLE CONTINGENCY **               273.5   272.6   300.0   300.0    91.2    90.9     0.3
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
  ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **               273.3   272.0   300.0   300.0    91.1    90.7     0.4
```

```
              : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
  825         : ** MULTIPLE CONTINGENCY **              272.7   271.5   300.0   300.0    90.9    90.5     0.4
              : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
              : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
              : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   272.3   271.0   300.0   300.0    90.8    90.3     0.5
  SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   271.8   271.0   300.0   300.0    90.6    90.3     0.3
  SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1   271.2   .....   300.0   .....    90.4   .....   *NEW*
  050    3    : ** MULTIPLE CONTINGENCY **              271.0   .....   300.0   .....    90.3   .....   *NEW*
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   270.9   .....   300.0   .....    90.3   .....   *NEW*
  SINGLE 2774 : 34091 ARNOLD 5 - 34090 ARNOLD1G CKT: 1   270.6   .....   300.0   .....    90.2   .....   *NEW*

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 217) 60107 W FARIB7 - 60265 LOON TP7 CKT:  C          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   331.4   327.2   310.0   310.0   106.6   105.1     1.5

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 218) 60194 CARVRCO7 - 60243 SCOTTAP7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   133.8   132.5   139.0   139.0    99.2    98.0     1.2

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 219) 60265 LOON TP7 - 60830 EASTWD18 CKT:  P          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   416.2   410.3   310.0   310.0   131.6   129.7     1.9

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 220) 60719 LAFAYET8 - 60725 WINTHRP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    38.2    37.9    37.0    37.0   103.1   102.1     1.0

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 221) 60719 LAFAYET8 - 62079 LAFAYTT8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    42.3    41.9    37.0    37.0   113.9   112.7     1.2
  SINGLE 3065 : 60728 FRANKLN8 - 60727 FARFXNU8 CKT: 1    35.9    35.6    37.0    37.0    97.0    96.4     0.6
  SINGLE 3150 : 60826 TRAVRSE8 - 62350 TRAVERS8 CKT: 1    34.7    34.5    37.0    37.0    93.9    93.3     0.6
  SINGLE 3393 : 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1    35.0    34.8    37.0    37.0    93.8    93.2     0.6
  SINGLE 3063 : 60726 GIBBON 8 - 60769 CAIRO R8 CKT: 1    34.5    34.2    37.0    37.0    92.8    92.2     0.6
  SINGLE 3064 : 60726 GIBBON 8 - 62075 CORNISH8 CKT: 1    33.9    33.6    37.0    37.0    91.1    90.4     0.7

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 222) 60793 MORISTN8 - 60805 WATRVIL8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    37.7    37.0    37.0    37.0    99.6    97.8     1.8
  SINGLE 1275 : 60265 LOON TP7 - 60830 EASTWD18 CKT: P    36.8    36.3    37.0    37.0    97.5    96.2     1.3

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 223) 60793 MORISTN8 - 62875 WARSAW 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    35.8    35.1    37.0    37.0    94.9    93.1     1.8
  SINGLE 1275 : 60265 LOON TP7 - 60830 EASTWD18 CKT: P    35.0    34.5    37.0    37.0    92.9    91.6     1.3

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 224) 60796 KENYON 8 - 60797 KENYNTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    37.3    36.9    37.0    37.0    99.6    98.6     1.0
```

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==================================================================================================================
 225) 60796 KENYON 8 - 60819 CHERYTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    35.5    35.1    37.0    37.0    95.4    94.4     1.0

==================================================================================================================
 226) 60797 KENYNTP8 - 62389 KENYON 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    40.2    39.8    37.0    37.0   106.2   105.1     1.1
  SPC-PRI/CTF5: ** MULTIPLE CONTINGENCY **                35.8    35.5    37.0    37.0    95.8    95.3     0.5
              : 63071 SPRNGCK5 - 60106 PR ISLD5 CKT: 1
              : 63071 SPRNGCK5 - 60103 CANNFLS5 CKT: 1
  740    1    : ** MULTIPLE CONTINGENCY **                35.8    35.5    37.0    37.0    95.8    95.3     0.5
              : 60103 CANNFLS5 - 63071 SPRNGCK5 CKT: 1
              : 60106 PR ISLD5 - 63071 SPRNGCK5 CKT: 1
              : 60103 CANNFLS5 - 60104 CANNFLS7 CKT: 1

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 227) 60818 ZUMBRTA8 - 60819 CHERYTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    33.8    33.5    37.0    37.0    92.2    91.2     1.0

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 228) 60938 FTRIDGL8 - 62077 SCHLTP 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1    46.6    46.1    37.0    37.0   122.0   120.6     1.4
  SINGLE 3065 : 60728 FRANKLN8 - 60727 FARFXNU8 CKT: 1    40.0    39.8    37.0    37.0   105.2   104.5     0.7
  SINGLE 3150 : 60826 TRAVRSE8 - 62350 TRAVERS8 CKT: 1    38.9    38.7    37.0    37.0   102.2   101.6     0.6
  SINGLE 3393 : 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1    38.8    38.6    37.0    37.0   101.7   101.1     0.6
  SINGLE 3063 : 60726 GIBBON 8 - 60769 CAIRO R8 CKT: 1    38.4    38.2    37.0    37.0   100.9   100.2     0.7
  SINGLE 3064 : 60726 GIBBON 8 - 62075 CORNISH8 CKT: 1    37.7    37.5    37.0    37.0    99.1    98.4     0.7
  795         : ** MULTIPLE CONTINGENCY **                37.2    37.0    37.0    37.0    97.8    97.2     0.6
              : 66550 GRANITF4 - 60150 MNVLTAP4 CKT: 1
              : 60148 MINVALY7 - 60149 MINVALT4 CKT: C
              : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1
              : 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1
              : 63054 PANTHER4 - 60742 PANTHER8 CKT: 1
  SINGLE 3061 : 60724 HENDRSN8 - 60868 LESR TP8 CKT: 1    35.8    35.5    37.0    37.0    94.1    93.3     0.8
  SINGLE 2916 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1    35.8    35.6    37.0    37.0    94.0    93.4     0.6
  SINGLE 3062 : 60724 HENDRSN8 - 62674 JSNLDTP8 CKT: 1    35.5    35.3    37.0    37.0    93.3    92.8     0.5
  SINGLE 3021 : 60650 WILMART8 - 62336 JHNSNTP8 CKT: 1    35.6    35.4    37.0    37.0    93.2    92.7     0.5
  SINGLE 1546 : 60938 FTRIDGL8 - 60940 NW ULM 8 CKT: 1    35.0    34.9    37.0    37.0    91.7    91.2     0.5
  SINGLE 3200 : 60940 NW ULM 8 - 62081 NEW ULM8 CKT: 1    35.0    34.9    37.0    37.0    91.7    91.2     0.5
  SINGLE 2022 : 62980 MCLEOD 4 - 62981 MCLEOD 7 CKT: 1    34.9    34.7    37.0    37.0    91.4    90.9     0.5
  SINGLE 964  : 60110 WILMART7 - 60194 CARVRCO7 CKT: 1    34.6    34.5    37.0    37.0    91.0    90.5     0.5
  SINGLE 2924 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1    34.6    34.3    37.0    37.0    90.5    90.1     0.4
  SINGLE 3058 : 60721 ESSIG  8 - 62080 HOME TP8 CKT: 1    34.4   .....    37.0   .....    90.1   .....   *NEW*
  SINGLE 3057 : 60721 ESSIG  8 - 62067 SRL JCT8 CKT: 1    34.4   .....    37.0   .....    90.1   .....   *NEW*

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 229) 63329 WAHPETN4 - 63331 FERGSFL4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1013 : 60133 SHEYNNE4 - 63336 AUDUBON4 CKT: 1   337.2   335.5   320.0   320.0   107.6   107.0     0.6
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1   301.2   299.5   320.0   320.0    96.4    95.7     0.7
  SINGLE 2188 : 63314 BIGSTON4 - 66503 BLAIR  4 CKT: 1   301.2   300.2   320.0   320.0    96.4    96.0     0.4
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   300.0   298.2   320.0   320.0    96.0    95.2     0.8
  SINGLE 2101 : 63219 GRANTCO7 - 66555 MORRIS 7 CKT: 1   298.2   296.6   320.0   320.0    94.8    94.2     0.6
  SINGLE 3452 : 63336 AUDUBON4 - 63053 HUBBARD4 CKT: 1   297.4   295.8   320.0   320.0    94.1    93.6     0.5
  SINGLE 2924 : 60160 SHERCO 3 - 60002 SHERC33G CKT: 1   294.6   293.4   320.0   320.0    93.9    93.5     0.4
  SINGLE 1008 : 60130 SPLTRTA3 - 66537 WHITE  3 CKT: 1   293.0   291.8   320.0   320.0    93.3    92.9     0.4
  SINGLE 1001 : 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1   293.1   291.9   320.0   320.0    93.3    92.9     0.4
  795         : ** MULTIPLE CONTINGENCY **               287.9   286.6   320.0   320.0    91.6    91.1     0.5
```

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              : 66550 GRANITF4 - 60150 MNVLTAP4 CKT: 1
              : 60148 MINVALY7 - 60149 MINVALT4 CKT: C
              : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1
              : 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1
              : 63054 PANTHER4 - 60742 PANTHER8 CKT: 1
  500         : ** MULTIPLE CONTINGENCY **                286.8   285.5   320.0   320.0    91.3    90.8     0.5
              : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
              : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1
  SINGLE 2916 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1   286.8   285.5   320.0   320.0    91.2    90.7     0.5
  SINGLE 2447 : 66503 BLAIR  4 - 66550 GRANITF4 CKT: 1   286.4   284.6   320.0   320.0    91.1    90.5     0.6
  SINGLE 1365 : 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C   286.2   284.7   320.0   320.0    91.1    90.5     0.6
  SINGLE 2922 : 60160 SHERCO 3 - 60000 SHERC31G CKT: 1   286.5   284.9   320.0   320.0    91.1    90.6     0.5
  SINGLE 2917 : 60151 MNTCELO3 - 60005 MNTCE31G CKT: 1   286.1   284.4   320.0   320.0    91.0    90.4     0.6
  SINGLE 1069 : 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C   286.2   284.7   320.0   320.0    91.0    90.5     0.5
  SINGLE 2923 : 60160 SHERCO 3 - 60001 SHERC32G CKT: 1   286.2   284.6   320.0   320.0    91.0    90.5     0.5
  SINGLE 1015 : 60133 SHEYNNE4 - 66754 MAPLE R4 CKT: 1   287.2   285.9   320.0   320.0    90.8    90.4     0.4
  SINGLE 3393 : 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1   284.8   .....   320.0   .....    90.4   .....   *NEW*
  SINGLE 1709 : 62003 JOHNJCT7 - 66555 MORRIS 7 CKT: 1   284.8   .....   320.0   .....    90.1   .....   *NEW*
  SINGLE 2051 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1   283.6   .....   320.0   .....    90.1   .....   *NEW*

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 230) 34009 WINBAGO5 - 61932 RUTLAND5 CKT:  1  **NEW** PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1   368.1   .....   434.0   .....    91.3   .....   *NEW*

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 231) 34251 MADLIAJ8 - 60701 MADELVL8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    45.7    44.2    36.0    36.0   128.7   124.3     4.4

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 232) 34251 MADLIAJ8 - 60716 STJ EAS8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    37.3    36.4    36.0    36.0   104.0   101.6     2.4

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 233) 60284 WATOWAN7 - 60934 WATOWAN8 CKT:  P          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    85.8    84.8    70.0    70.0   122.5   121.1     1.4
  LAKF-FOX DBL: ** MULTIPLE CONTINGENCY **                69.3    68.8    70.0    70.0    99.0    98.3     0.7
              : 34007 LAKEFLD5 - 34008 FOX LK 5 CKT: 1
              : 34007 LAKEFLD5 - 34008 FOX LK 5 CKT: 2

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 234) 60701 MADELVL8 - 60816 BUTERTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    48.6    47.0    36.0    36.0   138.3   133.6     4.7

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 235) 60716 STJ EAS8 - 60709 STJMSMU8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1    41.0    40.1    36.0    36.0   113.9   111.3     2.6

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 236) 60114 ELM CRK3 - 60115 ELMCRK 7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  009   7     : ** MULTIPLE CONTINGENCY **                491.5   490.9   448.0   448.0   109.7   109.6     0.1
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
              : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
              : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
              : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
              : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
```

```
 009   8     : ** MULTIPLE CONTINGENCY **                476.8   476.3   448.0   448.0   106.4   106.3     0.1
             : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
             : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
             : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
             : 63030 DICKNSN3 - 60202 COON CK3 CKT: 1
             : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
             : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
             : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
 009   5     : ** MULTIPLE CONTINGENCY **                441.1   440.7   448.0   448.0    98.5    98.4     0.1
             : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
             : 63030 DICKNSN3 - 60270 MPLEGV13 CKT: 1
             : 60270 MPLEGV13 - 60233 PARKERS3 CKT: 1
 PKL-DKN/ECK3: ** MULTIPLE CONTINGENCY **                440.9   440.5   448.0   448.0    98.4    98.3     0.1
             : 60233 PARKERS3 - 60270 MPLEGV13 CKT: 1
             : 60233 PARKERS3 - 60114 ELM CRK3 CKT: 1
 SINGLE 975  : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1   412.0   411.4   448.0   448.0    92.0    91.8     0.2

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 237) 66236 WATERT1T - 66529 WATERTN3 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1008 : 60130 SPLTRTA3 - 66537 WHITE  3 CKT: 1   496.4   495.7   400.0   400.0   124.1   123.9     0.2
 SINGLE 1001 : 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1   495.7   495.0   400.0   400.0   123.9   123.8     0.1

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 238) 66236 WATERT1T - 66530 WATERTN4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1008 : 60130 SPLTRTA3 - 66537 WHITE  3 CKT: 1   499.9   499.2   400.0   400.0   125.0   124.8     0.2
 SINGLE 1001 : 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1   496.7   496.0   400.0   400.0   124.2   124.0     0.2

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 239) 66504 BROOKNG7 - 66538 WHITE  7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 2289 : 66292 WHITE  T - 66537 WHITE  3 CKT: 1   196.3   196.3   160.0   160.0   119.7   119.7     0.0
 SINGLE 2290 : 66292 WHITE  T - 66538 WHITE  7 CKT: 1   196.3   196.3   160.0   160.0   119.7   119.7     0.0
 WHITE T1    : ** MULTIPLE CONTINGENCY **               196.3   196.3   160.0   160.0   119.7   119.7     0.0
             : 66292 WHITE  T - 66293 WHITE  9 CKT: 1
             : 66292 WHITE  T - 66537 WHITE  3 CKT: 1
             : 66292 WHITE  T - 66538 WHITE  7 CKT: 1
 SINGLE 2237 : 66236 WATERT1T - 66530 WATERTN4 CKT: 1   156.7   156.0   160.0   160.0    95.6    95.2     0.4
 SINGLE 2236 : 66236 WATERT1T - 66529 WATERTN3 CKT: 1   156.7   156.0   160.0   160.0    95.6    95.2     0.4
 WATERT1T    : ** MULTIPLE CONTINGENCY **               156.7   156.0   160.0   160.0    95.6    95.2     0.4
             : 66236 WATERT1T - 66237 WATERT19 CKT: 1
             : 66236 WATERT1T - 66529 WATERTN3 CKT: 1
             : 66236 WATERT1T - 66530 WATERTN4 CKT: 1

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 240) 63237 MAHNOMN7 - 63238 WINGER 7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1013 : 60133 SHEYNNE4 - 63336 AUDUBON4 CKT: 1    89.5    89.3    96.0    96.0    90.7    90.4     0.3

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 241) 66203 FARGO  8 - 67000 MAPLE R8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1014 : 60133 SHEYNNE4 - 66435 FARGO  4 CKT: 1    52.9    52.8    41.0    41.0   123.6   123.2     0.4

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 242) 60144 DGLASCO7 - 60749 DGLAS C8 CKT:  P          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 750         : ** MULTIPLE CONTINGENCY **                55.9    55.8    47.0    47.0   119.0   118.7     0.3
             : 62817 LSAUKTP7 - 60144 DGLASCO7 CKT: 1
             : 60144 DGLASCO7 - 60749 DGLAS C8 CKT: 1
 SINGLE 1037 : 60144 DGLASCO7 - 60749 DGLAS C8 CKT: 1    52.0    51.5    47.0    47.0   110.6   109.7     0.9
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 243) 60144 DGLASCO7 - 60749 DGLAS C8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1038 : 60144 DGLASCO7 - 60749 DGLAS C8 CKT: P    52.0    51.5    47.0    47.0   110.6   109.7     0.9

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 244) 60145 FRANKLN7 - 60728 FRANKLN8 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2916 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1    62.2    62.0    47.0    47.0   132.4   131.8     0.6
  SINGLE 1040 : 60145 FRANKLN7 - 60728 FRANKLN8 CKT: 1    53.6    53.4    47.0    47.0   114.1   113.6     0.5
  795         : ** MULTIPLE CONTINGENCY **                51.0    50.8    47.0    47.0   108.5   108.1     0.4
              : 66550 GRANITF4 - 60150 MNVLTAP4 CKT: 1
              : 60148 MINVALY7 - 60149 MINVALT4 CKT: C
              : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1
              : 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1
              : 63054 PANTHER4 - 60742 PANTHER8 CKT: 1
  SINGLE 3079 : 60742 PANTHER8 - 63054 PANTHER4 CKT: 1    43.7    43.5    47.0    47.0    92.9    92.7     0.2

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 245) 60145 FRANKLN7 - 60728 FRANKLN8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2916 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1    62.2    62.0    47.0    47.0   132.4   131.8     0.6
  SINGLE 1041 : 60145 FRANKLN7 - 60728 FRANKLN8 CKT: 2    53.6    53.4    47.0    47.0   114.1   113.6     0.5
  795         : ** MULTIPLE CONTINGENCY **                51.0    50.8    47.0    47.0   108.5   108.1     0.4
              : 66550 GRANITF4 - 60150 MNVLTAP4 CKT: 1
              : 60148 MINVALY7 - 60149 MINVALT4 CKT: C
              : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1
              : 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1
              : 63054 PANTHER4 - 60742 PANTHER8 CKT: 1
  SINGLE 3079 : 60742 PANTHER8 - 63054 PANTHER4 CKT: 1    43.7    43.5    47.0    47.0    92.9    92.7     0.2

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 246) 60742 PANTHER8 - 63054 PANTHER4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 3393 : 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1    97.5    97.1    70.0    70.0   139.3   138.7     0.6
  SINGLE 1042 : 60145 FRANKLN7 - 61954 REDFLST7 CKT: P    68.3    68.2    70.0    70.0    97.6    97.5     0.1
  SINGLE 1121 : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1    64.8    64.6    70.0    70.0    92.6    92.3     0.3
  810   C1    : ** MULTIPLE CONTINGENCY **                64.8    64.7    70.0    70.0    92.6    92.4     0.2
              : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1
              : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C
  SINGLE 1120 : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C    63.6    63.4    70.0    70.0    90.9    90.6     0.3

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 247) 60148 MINVALY7 - 60149 MINVALT4 CKT:  C          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1056 : 60150 MNVLTAP4 - 66550 GRANITF4 CKT: 1   229.2   227.7   187.0   187.0   122.5   121.8     0.7

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 248) 60156 PYNSVIL7 - 60760 PAYNES 8 CKT:  P          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1070 : 60156 PYNSVIL7 - 60760 PAYNES 8 CKT: P    53.1    52.9    47.0    47.0   113.0   112.6     0.4
  SINGLE 1071 : 60156 PYNSVIL7 - 60760 PAYNES 8 CKT: P    53.1    52.9    47.0    47.0   113.0   112.6     0.4
  SINGLE 1068 : 60156 PYNSVIL7 - 60162 WAKEFLD7 CKT: C    52.6    52.3    47.0    47.0   111.9   111.2     0.7
  SINGLE 1068 : 60156 PYNSVIL7 - 60162 WAKEFLD7 CKT: C    52.6    52.3    47.0    47.0   111.9   111.2     0.7
  SINGLE 1066 : 60156 PYNSVIL7 - 60162 WAKEFLD7 CKT: C   .....    52.3   .....    47.0   .....   111.2  *ELIM*
  SINGLE 1069 : 60156 PYNSVIL7 - 60760 PAYNES 8 CKT: P   .....    52.9   .....    47.0   .....   112.6  *ELIM*

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 249) 60740 LTCHMUT8 - 61912 LITCHFLD CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2916 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1    20.9    20.8    20.0    20.0   107.1   106.6     0.5
  SINGLE 3078 : 60742 PANTHER8 - 62590 MLVILTP8 CKT: 1    19.6    19.6    20.0    20.0   101.0   100.7     0.3
  SINGLE 3077 : 60741 LKLILLN8 - 62590 MLVILTP8 CKT: 1    19.5    19.4    20.0    20.0   100.5    99.7     0.8
```

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 SINGLE 1424 : 60741 LKLILLN8 - 60766 COSMSTP8 CKT: 1    18.9    18.9    20.0    20.0    97.2    96.8     0.4
 SINGLE 1365 : 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C    18.7    18.4    20.0    20.0    95.8    94.4     1.4
 SINGLE 3098 : 60766 COSMSTP8 - 62619 CDRMLTP8 CKT: 1    18.7    18.4    20.0    20.0    95.6    94.3     1.3
 SINGLE 1069 : 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C    18.5    18.3    20.0    20.0    95.2    94.1     1.1

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 250) 60749 DGLAS C8 - 60750 OSAKIS 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
 SINGLE 1365 : 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C    43.9    43.7    37.0    37.0   116.4   115.8     0.6
 SINGLE 1069 : 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C    43.9    43.7    37.0    37.0   116.3   115.7     0.6
 500         : ** MULTIPLE CONTINGENCY **                42.8    42.7    37.0    37.0   114.1   113.6     0.5
             : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
             : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1
 SINGLE 2051 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1    40.1    39.8    37.0    37.0   105.6   105.2     0.4
 SINGLE 3096 : 60760 PAYNES 8 - 62824 ZION TP8 CKT: 1    37.5    37.4    37.0    37.0    99.5    99.2     0.3
 SINGLE 3103 : 60768 ELRSATP8 - 62824 ZION TP8 CKT: 1    37.0    36.9    37.0    37.0    98.1    97.8     0.3
 BEN-GRC/SCL7: ** MULTIPLE CONTINGENCY **                36.7    36.5    37.0    37.0    96.6    96.0     0.6
             : 60143 BENTON 7 - 60146 GRANCTY7 CKT: 1
             : 60143 BENTON 7 - 60348 BENCTP7  CKT: 1
             : 60348 BENCTP7  - 60157 STCLOUD7 CKT: 1
 SINGLE 1428 : 60748 WESTPRT8 - 60749 DGLAS C8 CKT: 1    36.4    36.3    37.0    37.0    95.7    95.3     0.4
 SINGLE 1432 : 60753 MEIRGRV8 - 60768 ELRSATP8 CKT: 1    35.9    35.8    37.0    37.0    95.2    94.8     0.4
 SINGLE 1430 : 60752 BLCKOAK8 - 60753 MEIRGRV8 CKT: 1    35.5    35.4    37.0    37.0    93.8    93.5     0.3
 SINGLE 1427 : 60747 VILLARD8 - 60748 WESTPRT8 CKT: 1    34.6    34.5    37.0    37.0    91.5    91.1     0.4
 SINGLE 3086 : 60747 VILLARD8 - 62756 LEVEN  8 CKT: 1    34.4    34.3    37.0    37.0    90.9    90.6     0.3
 SINGLE 3050 : 60710 FARM TP8 - 62839 BGFSHTP8 CKT: 1    34.2    34.0    37.0    37.0    90.5    90.0     0.5
 SINGLE 1082 : 60163 WST CLD7 - 60732 WST CLD8 CKT: 1    34.4    34.2    37.0    37.0    90.4    90.2     0.2

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 251) 60750 OSAKIS 8 - 62820 W UNION8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
 SINGLE 1365 : 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C    41.8    41.6    37.0    37.0   111.3   110.7     0.6
 SINGLE 1069 : 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C    41.8    41.6    37.0    37.0   111.2   110.7     0.5
 500         : ** MULTIPLE CONTINGENCY **                40.6    40.5    37.0    37.0   108.8   108.3     0.5
             : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
             : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1
 SINGLE 2051 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1    38.0    37.8    37.0    37.0   100.5   100.0     0.5
 SINGLE 3096 : 60760 PAYNES 8 - 62824 ZION TP8 CKT: 1    35.3    35.2    37.0    37.0    94.1    93.8     0.3
 SINGLE 3103 : 60768 ELRSATP8 - 62824 ZION TP8 CKT: 1    34.8    34.7    37.0    37.0    92.7    92.4     0.3
 BEN-GRC/SCL7: ** MULTIPLE CONTINGENCY **                34.4    34.3    37.0    37.0    91.1    90.6     0.5
             : 60143 BENTON 7 - 60146 GRANCTY7 CKT: 1
             : 60143 BENTON 7 - 60348 BENCTP7  CKT: 1
             : 60348 BENCTP7  - 60157 STCLOUD7 CKT: 1
 SINGLE 1428 : 60748 WESTPRT8 - 60749 DGLAS C8 CKT: 1    34.2    34.2    37.0    37.0    90.4    90.1     0.3

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 252) 62437 SVEATAP8 - 62438 LITCHTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
 SINGLE 2916 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1    50.7    50.4    41.5    41.5   121.0   120.0     1.0
 795         : ** MULTIPLE CONTINGENCY **                50.7    50.4    41.5    41.5   121.0   120.2     0.8
             : 66550 GRANITF4 - 60150 MNVLTAP4 CKT: 1
             : 60148 MINVALY7 - 60149 MINVALT4 CKT: C
             : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1
             : 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1
             : 63054 PANTHER4 - 60742 PANTHER8 CKT: 1
 SINGLE 3393 : 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1    44.5    44.2    41.5    41.5   106.0   105.2     0.8
 SINGLE 1365 : 60356 PAYNES 4 - 63050 WILLMAR4 CKT: C    41.3    40.9    41.5    41.5    98.3    97.3     1.0
 SINGLE 1069 : 60156 PYNSVIL7 - 60356 PAYNES 4 CKT: C    41.3    41.1    41.5    41.5    98.2    97.4     0.8

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 253) 60756 ALBANY 8 - 62838 FARMING8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
 SINGLE 1082 : 60163 WST CLD7 - 60732 WST CLD8 CKT: 1    32.0    32.0    27.6    27.6   116.5   116.7    -0.2
```

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 BEN-GRC/SCL7: ** MULTIPLE CONTINGENCY **                29.0    28.9    27.6    27.6   112.2   111.4     0.8
             : 60143 BENTON 7 - 60146 GRANCTY7 CKT: 1
             : 60143 BENTON 7 - 60348 BENCTP7  CKT: 1
             : 60348 BENCTP7  - 60157 STCLOUD7 CKT: 1
 SINGLE 1431 : 60752 BLCKOAK8 - 60754 MELRSMU8 CKT: 1    29.4    29.2    27.6    27.6   106.7   106.0     0.7
 SINGLE 3095 : 60759 STJOSPH8 - 62843 LSAUKTP8 CKT: 1    26.3    26.3    27.6    27.6    94.7    94.5     0.2
 SINGLE 3071 : 60732 WST CLD8 - 62843 LSAUKTP8 CKT: 1    26.3    26.3    27.6    27.6    94.7    94.5     0.2
 SINGLE 1429 : 60749 DGLAS C8 - 60750 OSAKIS 8 CKT: 1    25.9    25.8    27.6    27.6    94.1    93.9     0.2
 SINGLE 3088 : 60750 OSAKIS 8 - 62820 W UNION8 CKT: 1    25.3    25.2    27.6    27.6    92.0    91.5     0.5
 SINGLE 3096 : 60760 PAYNES 8 - 62824 ZION TP8 CKT: 1    25.2    25.1    27.6    27.6    91.0    90.5     0.5

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 254) 60196 CHI    7 - 60199 CHIS CO3 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **               431.0   430.4   448.0   448.0    96.2    96.1     0.1
             : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
 SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   428.7   427.7   448.0   448.0    95.7    95.5     0.2
 ASK-CHI/KOL3: ** MULTIPLE CONTINGENCY **               418.7   417.8   448.0   448.0    93.5    93.3     0.2
             : 60186 AS KING3 - 60199 CHIS CO3 CKT: 1
             : 60186 AS KING3 - 60221 KOLMNLK3 CKT: 1

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 255) 60238 REDROCK7 - 68966 GLENMONT CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   220.2   219.5   191.0   191.0   116.4   116.4     0.0
 ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **               193.4   193.3   191.0   191.0    98.8    98.7     0.1
             : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
 SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1   181.6   180.4   191.0   191.0    92.6    93.1    -0.5
 PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **               181.0   179.3   191.0   191.0    92.0    91.6     0.4
             : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
             : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2

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 256) 60291 INOPUMP7 - 60292 IRONRIV7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1    75.5    75.5    85.0    85.0    92.1    92.1     0.0

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 257) 60295 BAYFRNT7 - 69105 PILSEN7  CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1    74.0    74.0    80.0    80.0    94.9    94.9     0.0

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 258) 60305 EAU CLA5 - 60317 WHEATON5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   263.3   262.8   272.0   272.0   100.0    99.7     0.3

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 259) 60317 WHEATON5 - 69551 ELK MND5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   261.9   261.4   268.0   268.0   101.5   101.2     0.3

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 260) 60327 T RIVFL7 - 68966 GLENMONT CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   216.9   216.2   194.0   194.0   112.8   112.8     0.0
 ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **               187.4   187.4   194.0   194.0    95.6    95.5     0.1
             : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
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              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1

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 261) 60823 REDWING8 - 60824 FRONTNC8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1    62.7    62.6    48.0    48.0   127.0   127.0     0.0
  SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1    61.7    61.2    48.0    48.0   124.8   124.9    -0.1
  ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                54.8    54.6    48.0    48.0   110.8   110.6     0.2
              : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
  050     1   : ** MULTIPLE CONTINGENCY **                54.3    54.2    48.0    48.0   110.0   109.9     0.1
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
  SINGLE 3361 : 61948 BYRON  5 - 61906 MAPLE LF CKT: 1    48.5    48.5    48.0    48.0    98.5    98.4     0.1
  SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1    47.4    47.4    48.0    48.0    96.2    96.1     0.1
  SINGLE 2894 : 60102 ADAMS  3 - 63032 PL VLLY3 CKT: 1    44.4   .....    48.0   .....    90.1   .....   *NEW*

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 262) 60824 FRONTNC8 - 61960 LAKECITY CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                60.2    60.2    48.0    48.0   125.5   125.6    -0.1
              : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
              : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
  SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1    59.5    59.4    48.0    48.0   124.1   124.1     0.0
  SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1    58.6    57.6    48.0    48.0   122.0   122.0     0.0
  ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                52.1    52.0    48.0    48.0   107.9   107.8     0.1
              : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
  050     1   : ** MULTIPLE CONTINGENCY **                51.6    51.6    48.0    48.0   107.2   107.1     0.1
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
  SINGLE 3361 : 61948 BYRON  5 - 61906 MAPLE LF CKT: 1    46.1    46.1    48.0    48.0    95.7    95.6     0.1
  SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1    45.1    45.1    48.0    48.0    93.4    93.3     0.1

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 263) 60825 WABASHA8 - 61960 LAKECITY CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                43.5    43.5    34.0    34.0   129.9   130.0    -0.1
              : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
              : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
  SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1    42.9    42.7    34.0    34.0   128.0   127.9     0.1
  SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1    42.0    40.4    34.0    34.0   125.1   123.1     2.0
  ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                35.7    35.6    34.0    34.0   105.5   105.4     0.1
              : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
  050     1   : ** MULTIPLE CONTINGENCY **                35.3    35.2    34.0    34.0   104.5   104.4     0.1
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1

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 264) 61001 EAUCLAI8 - 61039 ELKMOUN8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1    34.6    34.5    37.0    37.0    92.5    92.2     0.3

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 265) 61038 RUSK   8 - 61083 RUSK EM8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------------
  SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1    36.1    36.0    36.0    36.0    97.3    97.0     0.3

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 266) 61039 ELKMOUN8 - 61083 RUSK EM8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------------
  SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1    35.9    35.8    36.0    36.0    97.3    97.0     0.3

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 267) 61615 ARROWHD4 - 61619 AHD PST  CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------------
  050    1    : ** MULTIPLE CONTINGENCY **               754.4   752.9   750.0   750.0   100.6   100.4     0.2
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
  ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **               740.6   739.4   750.0   750.0    98.7    98.6     0.1
              : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
  050    2    : ** MULTIPLE CONTINGENCY **               738.2   733.8   750.0   750.0    98.4    97.8     0.6
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
  SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1   728.8   727.0   750.0   750.0    97.2    96.9     0.3
  SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   677.8   676.6   750.0   750.0    90.4    90.2     0.2

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 268) 61615 ARROWHD4 - 61624 FORBES 4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------------
  ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **               295.3   294.7   320.0   320.0    99.9    99.8     0.1
              : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
  050    1    : ** MULTIPLE CONTINGENCY **               288.9   288.2   320.0   320.0    99.6    99.3     0.3
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
  050    2    : ** MULTIPLE CONTINGENCY **               296.9   285.0   320.0   320.0    99.2    96.5     2.7
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
  SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   290.6   290.2   320.0   320.0    94.5    94.4     0.1

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 269) 61618 ARROWHD3 - 61619 AHD PST  CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------------
  050    1    : ** MULTIPLE CONTINGENCY **               753.8   752.4   750.0   750.0   100.5   100.3     0.2
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
  ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **               740.1   738.9   750.0   750.0    98.7    98.5     0.2
              : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
```

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              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
 050     2    : ** MULTIPLE CONTINGENCY **                737.8   733.3   750.0   750.0    98.4    97.8     0.6
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
 SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1   728.4   726.6   750.0   750.0    97.1    96.9     0.2
 SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   677.5   676.3   750.0   750.0    90.3    90.2     0.1

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 270) 61666 FONDULAC - 61676 HIBBARD7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 050     1    : ** MULTIPLE CONTINGENCY **                 66.1    66.0    67.0    67.0   107.6   107.5     0.1
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
 ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                 65.5    65.5    67.0    67.0   105.0   105.0     0.0
              : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
 SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1    67.4    67.3    67.0    67.0   104.8   104.8     0.0
 050     2    : ** MULTIPLE CONTINGENCY **                 65.9    65.4    67.0    67.0   104.4   104.8    -0.4
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
 SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1    59.3    59.2    67.0    67.0    92.6    92.5     0.1
 SINGLE 3380 : 62470 CROMWLL8 - 61655 CROMWLL7 CKT: 1    62.2    62.2    67.0    67.0    92.1    92.1     0.0
 SINGLE 3280 : 61051 STCRFL5G - 69565 APL RVR5 CKT: C    60.4    60.3    67.0    67.0    90.2    90.2     0.0
 PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                .....    59.7   .....    67.0   .....    90.1  *ELIM*
              : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
              : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
 SINGLE 949  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1   .....    59.6   .....    67.0   .....    90.8  *ELIM*

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 271) 61676 HIBBARD7 - 61680 WNTR ST7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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 SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   157.1   157.0   144.0   144.0   113.7   113.7     0.0
 ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **               142.8   142.7   144.0   144.0   106.5   106.4     0.1
              : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
 050     1    : ** MULTIPLE CONTINGENCY **               138.6   138.5   144.0   144.0   105.0   104.9     0.1
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
 SINGLE 3280 : 61051 STCRFL5G - 69565 APL RVR5 CKT: C   140.3   140.1   144.0   144.0    98.1    98.0     0.1
 SINGLE 1652 : 61051 STCRFL5G - 61131 LAW CRK5 CKT: C   140.5   140.4   144.0   144.0    97.6    97.6     0.0
 CHI-WYO/LIN7: ** MULTIPLE CONTINGENCY **               140.1   140.0   144.0   144.0    97.4    97.4     0.0
              : 60196 CHI    7 - 60345 WYOMING7 CKT: 1
              : 60196 CHI    7 - 60920 LINDSTM7 CKT: C
 SINGLE 1140 : 60196 CHI    7 - 60920 LINDSTM7 CKT: C   139.4   139.3   144.0   144.0    96.8    96.8     0.0
 SINGLE 3188 : 60920 LINDSTM7 - 62276 SHAFER 7 CKT: C   138.3   138.2   144.0   144.0    96.0    96.0     0.0
 SINGLE 3318 : 61128 LAW CRK7 - 62276 SHAFER 7 CKT: C   138.1   137.9   144.0   144.0    95.8    95.8     0.0
 SINGLE 1138 : 60196 CHI    7 - 60199 CHIS CO3 CKT: 1   132.9   132.7   144.0   144.0    92.0    91.9     0.1
 ASK-CHI/KOL3: ** MULTIPLE CONTINGENCY **               129.3   129.3   144.0   144.0    90.5    90.6    -0.1
              : 60186 AS KING3 - 60199 CHIS CO3 CKT: 1
              : 60186 AS KING3 - 60221 KOLMNLK3 CKT: 1

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 272) 61680 WNTR ST7 - 61683 STIN-MN7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   134.0   133.8   144.0   144.0    97.3    97.3     0.0
  ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **               121.8   121.7   144.0   144.0    90.8    90.7     0.1
              : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1

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 273) 61683 STIN-MN7 - 61684 STIN-WI7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1   181.1   180.9   200.0   200.0    90.5    90.5     0.0

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 274) 60312 PINE LK5 - 60313 PINE LK7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1118 : 60187 AS KING7 - 60325 WILOWRV7 CKT: 1   104.7   104.5   112.0   112.0    93.5    93.3     0.2

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 275) 60208 EDINA  7 - 60263 EDEN PR7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  700    1    : ** MULTIPLE CONTINGENCY **               350.8   345.7   318.0   318.0   110.2   109.8     0.4
              : 60105 PR ISLD3 - 60192 BLUE LK3 CKT: 1
              : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
              : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1
  MEL-ALD/CDR7: ** MULTIPLE CONTINGENCY **               351.2   349.8   318.0   318.0   109.5   109.0     0.5
              : 60227 MEDLAKE7 - 60182 ALDRICH7 CKT: 1
              : 60234 PARKERS7 - 60346 CEDARLK7 CKT: P
  SLP-MEL/PKL7: ** MULTIPLE CONTINGENCY **               347.2   345.7   318.0   318.0   108.2   107.7     0.5
              : 60249 STLSPRK7 - 60182 ALDRICH7 CKT: P
              : 60249 STLSPRK7 - 60346 CEDARLK7 CKT: P
              : 60346 CEDARLK7 - 60234 PARKERS7 CKT: P
  MEL-ALD/SLP7: ** MULTIPLE CONTINGENCY **               347.2   345.7   318.0   318.0   108.2   107.7     0.5
              : 60227 MEDLAKE7 - 60182 ALDRICH7 CKT: 1
              : 60234 PARKERS7 - 60346 CEDARLK7 CKT: P
              : 60249 STLSPRK7 - 60346 CEDARLK7 CKT: P
  SLP-MEL/CDR7: ** MULTIPLE CONTINGENCY **               346.7   345.3   318.0   318.0   108.1   107.6     0.5
              : 60249 STLSPRK7 - 60182 ALDRICH7 CKT: P
              : 60249 STLSPRK7 - 60346 CEDARLK7 CKT: P
  EDP-WSG/WSG7: ** MULTIPLE CONTINGENCY **               343.4   341.9   318.0   318.0   107.8   107.3     0.5
              : 60263 EDEN PR7 - 60256 WSTGATE7 CKT: 1
              : 60263 EDEN PR7 - 60256 WSTGATE7 CKT: 2
  BLL-PRI/IVH3: ** MULTIPLE CONTINGENCY **               334.9   333.3   318.0   318.0   106.4   105.8     0.6
              : 60192 BLUE LK3 - 60105 PR ISLD3 CKT: 1
              : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1
  PKL-CDR/BCR7: ** MULTIPLE CONTINGENCY **               337.5   335.8   318.0   318.0   104.8   104.3     0.5
              : 60234 PARKERS7 - 60346 CEDARLK7 CKT: P
              : 60234 PARKERS7 - 60259 BASCRK 7 CKT: 1
  MEL-BCR/CDR7: ** MULTIPLE CONTINGENCY **               333.6   331.9   318.0   318.0   103.6   103.1     0.5
              : 60227 MEDLAKE7 - 60259 BASCRK 7 CKT: 1
              : 60234 PARKERS7 - 60346 CEDARLK7 CKT: P
  MEL-BCR/PKL7: ** MULTIPLE CONTINGENCY **               331.2   329.5   318.0   318.0   102.9   102.3     0.6
              : 60227 MEDLAKE7 - 60259 BASCRK 7 CKT: 1
              : 60234 PARKERS7 - 60346 CEDARLK7 CKT: P
              : 60249 STLSPRK7 - 60346 CEDARLK7 CKT: P
  SINGLE 1223 : 60234 PARKERS7 - 60259 BASCRK 7 CKT: 1   316.7   315.3   318.0   318.0   100.5   100.0     0.5
  IVH-BLL/RRK3: ** MULTIPLE CONTINGENCY **               314.0   312.5   318.0   318.0    99.6    99.0     0.6
              : 60217 INVRHLS3 - 60192 BLUE LK3 CKT: 1
              : 60217 INVRHLS3 - 60236 REDROCK3 CKT: 1
  SINGLE 1213 : 60227 MEDLAKE7 - 60259 BASCRK 7 CKT: 1   309.2   307.8   318.0   318.0    98.0    97.4     0.6
  SINGLE 1224 : 60234 PARKERS7 - 60346 CEDARLK7 CKT: P   303.0   301.7   318.0   318.0    95.5    95.1     0.4
  SINGLE 1254 : 60249 STLSPRK7 - 60346 CEDARLK7 CKT: P   299.9   298.6   318.0   318.0    94.5    94.1     0.4
  SINGLE 1126 : 60192 BLUE LK3 - 60217 INVRHLS3 CKT: 1   296.2   294.7   318.0   318.0    93.6    93.2     0.4
```

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 SINGLE 1120 : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C   294.6   293.2   318.0   318.0    93.0    92.5     0.5
 SINGLE 1121 : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1   294.6   293.2   318.0   318.0    93.0    92.5     0.5
 810   C1    : ** MULTIPLE CONTINGENCY **               294.6   293.2   318.0   318.0    93.0    92.5     0.5
             : 60189 BLK DOG4 - 62980 MCLEOD 4 CKT: 1
             : 60189 BLK DOG4 - 60190 BLK DOG7 CKT: C
 022       1 : ** MULTIPLE CONTINGENCY **               290.2   289.0   318.0   318.0    91.9    91.4     0.5
             : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
             : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
             : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
             : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
             : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
             : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
             : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
             : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
             : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
             : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
 795         : ** MULTIPLE CONTINGENCY **               287.8   286.4   318.0   318.0    90.7    90.2     0.5
             : 66550 GRANITF4 - 60150 MNVLTAP4 CKT: 1
             : 60148 MINVALY7 - 60149 MINVALT4 CKT: C
             : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1
             : 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1
             : 63054 PANTHER4 - 60742 PANTHER8 CKT: 1
 SINGLE 3393 : 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1   287.5   286.2   318.0   318.0    90.7    90.2     0.5
 022       3 : ** MULTIPLE CONTINGENCY **               285.7   284.4   318.0   318.0    90.5    90.0     0.5
             : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
             : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
             : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
             : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
             : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
             : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
 SINGLE 1196 : 60217 INVRHLS3 - 60218 INVRHLS7 CKT: 1   285.8   284.6   318.0   318.0    90.5    90.1     0.4
 CNC-KOL/TER3: ** MULTIPLE CONTINGENCY **               284.2   .....   318.0   .....    90.0   .....   *NEW*
             : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
             : 60202 COON CK3 - 60251 TERMINL3 CKT: 1

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 276) 61477 BLL TR6Y - 60027 BLL  74G CKT:  6          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
 SINGLE 1130 : 60193 BLUE LK7 - 61476 BLL TR5Y CKT: 5    55.6    55.2    60.0    60.0    92.7    92.1     0.6

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 277) 60864 TCAAPTP8 - 60909 ARDNHL28 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
 SINGLE 1140 : 60196 CHI    7 - 60920 LINDSTM7 CKT: C    52.2    52.1    50.0    50.0   104.7   104.5     0.2
 CHI-WYO/LIN7: ** MULTIPLE CONTINGENCY **                51.4    51.3    50.0    50.0   103.1   103.0     0.1
             : 60196 CHI    7 - 60345 WYOMING7 CKT: 1
             : 60196 CHI    7 - 60920 LINDSTM7 CKT: C
 SINGLE 3188 : 60920 LINDSTM7 - 62276 SHAFER 7 CKT: C    50.5    50.5    50.0    50.0   101.1   101.1     0.0
 SINGLE 3318 : 61128 LAW CRK7 - 62276 SHAFER 7 CKT: C    50.0    50.0    50.0    50.0   100.1   100.2    -0.1

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 278) 60864 TCAAPTP8 - 60921 BIRCH  8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
 SINGLE 1140 : 60196 CHI    7 - 60920 LINDSTM7 CKT: C    52.1    52.0    47.0    47.0   111.3   111.2     0.1
 CHI-WYO/LIN7: ** MULTIPLE CONTINGENCY **                51.3    51.2    47.0    47.0   109.7   109.6     0.1
             : 60196 CHI    7 - 60345 WYOMING7 CKT: 1
             : 60196 CHI    7 - 60920 LINDSTM7 CKT: C
 SINGLE 3188 : 60920 LINDSTM7 - 62276 SHAFER 7 CKT: C    50.4    50.4    47.0    47.0   107.5   107.6    -0.1

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 279) 60910 SCANDIA8 - 60930 MANNING8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
 SINGLE 1140 : 60196 CHI    7 - 60920 LINDSTM7 CKT: C    43.6    43.5    47.0    47.0    94.8    94.6     0.2
```

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 CHI-WYO/LIN7: ** MULTIPLE CONTINGENCY **                42.9    42.8    47.0    47.0    93.2    93.1     0.1
             : 60196 CHI    7 - 60345 WYOMING7 CKT: 1
             : 60196 CHI    7 - 60920 LINDSTM7 CKT: C
 SINGLE 3188 : 60920 LINDSTM7 - 62276 SHAFER 7 CKT: C    42.1    42.1    47.0    47.0    91.2    91.2     0.0
 SINGLE 3318 : 61128 LAW CRK7 - 62276 SHAFER 7 CKT: C    41.7    41.7    47.0    47.0    90.2    90.2     0.0

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 280) 60917 HUGOUPA8 - 60921 BIRCH  8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1140 : 60196 CHI    7 - 60920 LINDSTM7 CKT: C    47.3    47.2    47.0    47.0   101.7   101.5     0.2
 CHI-WYO/LIN7: ** MULTIPLE CONTINGENCY **                46.5    46.4    47.0    47.0   100.1   100.0     0.1
             : 60196 CHI    7 - 60345 WYOMING7 CKT: 1
             : 60196 CHI    7 - 60920 LINDSTM7 CKT: C
 SINGLE 3188 : 60920 LINDSTM7 - 62276 SHAFER 7 CKT: C    45.7    45.7    47.0    47.0    98.0    98.0     0.0
 SINGLE 3318 : 61128 LAW CRK7 - 62276 SHAFER 7 CKT: C    45.2    45.2    47.0    47.0    97.0    97.0     0.0

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 281) 60917 HUGOUPA8 - 60929 MAYTAP 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1140 : 60196 CHI    7 - 60920 LINDSTM7 CKT: C    47.0    46.9    47.0    47.0   101.6   101.5     0.1
 CHI-WYO/LIN7: ** MULTIPLE CONTINGENCY **                46.3    46.2    47.0    47.0   100.0    99.9     0.1
             : 60196 CHI    7 - 60345 WYOMING7 CKT: 1
             : 60196 CHI    7 - 60920 LINDSTM7 CKT: C
 SINGLE 3318 : 61128 LAW CRK7 - 62276 SHAFER 7 CKT: C    45.0    45.0    47.0    47.0    96.9    97.0    -0.1

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 282) 60929 MAYTAP 8 - 60930 MANNING8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1140 : 60196 CHI    7 - 60920 LINDSTM7 CKT: C    43.7    43.6    47.0    47.0    94.9    94.7     0.2
 CHI-WYO/LIN7: ** MULTIPLE CONTINGENCY **                42.9    42.9    47.0    47.0    93.3    93.2     0.1
             : 60196 CHI    7 - 60345 WYOMING7 CKT: 1
             : 60196 CHI    7 - 60920 LINDSTM7 CKT: C
 SINGLE 3188 : 60920 LINDSTM7 - 62276 SHAFER 7 CKT: C    42.2    42.2    47.0    47.0    91.3    91.3     0.0

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 283) 60197 CHIS CO2 - 61494 CHIS D2Y CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1142 : 60197 CHIS CO2 - 61493 CHIS D1Y CKT: 1  1201.7  1199.5  1200.0  1200.0   100.1   100.0     0.1
 022     13  : ** MULTIPLE CONTINGENCY **              1199.2  1197.0  1200.0  1200.0    99.9    99.7     0.2
             : 60199 CHIS CO3 - 61493 CHIS D1Y CKT: 1
             : 60653 CHIS T19 - 61493 CHIS D1Y CKT: 1
             : 60197 CHIS CO2 - 61493 CHIS D1Y CKT: 1
 SINGLE 1145 : 60199 CHIS CO3 - 61493 CHIS D1Y CKT: 1  1193.5  1191.2  1200.0  1200.0    99.5    99.3     0.2

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 284) 60199 CHIS CO3 - 61494 CHIS D2Y CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1142 : 60197 CHIS CO2 - 61493 CHIS D1Y CKT: 1  1200.6  1198.4  1200.0  1200.0   100.1    99.9     0.2
 022     13  : ** MULTIPLE CONTINGENCY **              1198.1  1195.8  1200.0  1200.0    99.8    99.7     0.1
             : 60199 CHIS CO3 - 61493 CHIS D1Y CKT: 1
             : 60653 CHIS T19 - 61493 CHIS D1Y CKT: 1
             : 60197 CHIS CO2 - 61493 CHIS D1Y CKT: 1
 SINGLE 1145 : 60199 CHIS CO3 - 61493 CHIS D1Y CKT: 1  1192.4  1190.1  1200.0  1200.0    99.4    99.2     0.2

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 285) 60197 CHIS CO2 - 61493 CHIS D1Y CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 1143 : 60197 CHIS CO2 - 61494 CHIS D2Y CKT: 1  1201.8  1199.6  1200.0  1200.0   100.2   100.0     0.2
 SINGLE 1146 : 60199 CHIS CO3 - 61494 CHIS D2Y CKT: 1  1199.4  1197.1  1200.0  1200.0   100.0    99.8     0.2
 022     14  : ** MULTIPLE CONTINGENCY **              1200.3  1198.1  1200.0  1200.0   100.0    99.8     0.2
             : 60197 CHIS CO2 - 61494 CHIS D2Y CKT: 1
             : 60199 CHIS CO3 - 61494 CHIS D2Y CKT: 1
             : 60654 CHIS T29 - 61494 CHIS D2Y CKT: 1
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 286) 60199 CHIS CO3 - 61493 CHIS D1Y CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1143 : 60197 CHIS CO2 - 61494 CHIS D2Y CKT: 1  1194.5  1192.4  1200.0  1200.0    99.5    99.4     0.1
  SINGLE 1146 : 60199 CHIS CO3 - 61494 CHIS D2Y CKT: 1  1192.2  1189.9  1200.0  1200.0    99.4    99.2     0.2
  022     14  : ** MULTIPLE CONTINGENCY **              1193.1  1190.9  1200.0  1200.0    99.4    99.2     0.2
              : 60197 CHIS CO2 - 61494 CHIS D2Y CKT: 1
              : 60199 CHIS CO3 - 61494 CHIS D2Y CKT: 1
              : 60654 CHIS T29 - 61494 CHIS D2Y CKT: 1

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 287) 62947 DICKIN 8 - 62950 ROCKFRD8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  DKN-CRO/STB7: ** MULTIPLE CONTINGENCY **                 31.8    31.8    30.2    30.2   102.7   102.9    -0.2
              : 62925 DICKNSN7 - 60206 CROWRVR7 CKT: 1
              : 62925 DICKNSN7 - 62667 ST BONI7 CKT: 1
  665         : ** MULTIPLE CONTINGENCY **                 27.9    27.9    30.2    30.2    90.9    90.7     0.2
              : 63043 ELK RIV4 - 60152 MNTCELO4 CKT: 1
              : 63043 ELK RIV4 - 62134 ELKR14S8 CKT: 1
  SINGLE 1170 : 60206 CROWRVR7 - 62925 DICKNSN7 CKT: 1    28.0    28.0    30.2    30.2    90.4    90.5    -0.1

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 288) 60103 CANNFLS5 - 63071 SPRNGCK5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1196 : 60217 INVRHLS3 - 60218 INVRHLS7 CKT: 1    81.0   .....    90.0   .....    90.1   .....   *NEW*

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 289) 60204 COTTAGE7 - 60238 REDROCK7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1196 : 60217 INVRHLS3 - 60218 INVRHLS7 CKT: 1   170.3   170.1   191.0   191.0    90.1    90.0     0.1

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 290) 60224 LONG LK7 - 60230 OAKDALE7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  RRK-AFT/WDY7: ** MULTIPLE CONTINGENCY **               226.3   225.2   239.0   239.0    95.4    95.0     0.4
              : 60238 REDROCK7 - 60179 AFTON  7 CKT: 1
              : 60238 REDROCK7 - 60344 WOODBUR7 CKT: 1
  SINGLE 1237 : 60238 REDROCK7 - 60344 WOODBUR7 CKT: 1   226.3   225.2   239.0   239.0    95.3    94.9     0.4

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 291) 60262 EDEN PR3 - 60263 EDEN PR7 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1272 : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 1   413.9   412.2   448.0   448.0    92.4    92.0     0.4

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 292) 60262 EDEN PR3 - 60263 EDEN PR7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1273 : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 2   428.9   427.0   448.0   448.0    95.7    95.3     0.4
  705       4 : ** MULTIPLE CONTINGENCY **               404.2   .....   448.0   .....    90.2   .....   *NEW*
              : 60233 PARKERS3 - 60262 EDEN PR3 CKT: 1
              : 60262 EDEN PR3 - 60263 EDEN PR7 CKT: 2

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 293) 60304 EAU CL 3 - 60305 EAU CLA5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1316 : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 2   272.3   272.1   300.0   300.0    90.8    90.7     0.1

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 294) 60748 WESTPRT8 - 60749 DGLAS C8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1425 : 60743 BELGRAD8 - 60760 PAYNES 8 CKT: 1    35.6    35.6    37.0    37.0    94.4    94.1     0.3
  SINGLE 3078 : 60743 BELGRAD8 - 62827 CROW LK8 CKT: 1   .....    34.1   .....    37.0   .....    90.2  *ELIM*
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 295) 60743 BELGRAD8 - 60760 PAYNES 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1428 : 60748 WESTPRT8 - 60749 DGLAS C8 CKT: 1    37.1    37.0    36.0    36.0   102.1   101.6     0.5
  SINGLE 1427 : 60747 VILLARD8 - 60748 WESTPRT8 CKT: 1    32.8    32.8    36.0    36.0    90.7    90.4     0.3

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 296) 60743 BELGRAD8 - 62827 CROW LK8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1428 : 60748 WESTPRT8 - 60749 DGLAS C8 CKT: 1    32.4    32.3    37.0    37.0    95.0    94.5     0.5

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 297) 60790 FAIRPRK8 - 60791 FARIBLT8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1461 : 60790 FAIRPRK8 - 60792 WFARBLT8 CKT: 1    64.4    64.1    48.0    48.0   132.6   131.8     0.8

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 298) 60256 WSTGATE7 - 60894 WSTGAT28 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SCO-MRR/EXC7: ** MULTIPLE CONTINGENCY **                49.5    49.2    47.0    47.0   105.3   104.8     0.5
              : 60244 SCOTTCO7 - 60367 MNRIVER7 CKT: 1
              : 60890 SCOTTCO8 - 60889 CHASKAS8 CKT: 1
  SINGLE 1526 : 60889 CHASKAS8 - 60892 EXCELSR8 CKT: 1    49.5    49.2    47.0    47.0   105.2   104.8     0.4
  SINGLE 1525 : 60889 CHASKAS8 - 60890 SCOTTCO8 CKT: 1    49.5    49.2    47.0    47.0   105.2   104.7     0.5

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 299) 60307 JACKSON5 - 60966 JACKCO 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1584 : 60979 TREMVAL8 - 60985 BLAIR  8 CKT: 1    43.0    42.9    47.0    47.0    91.4    91.4     0.0
  SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1    42.5    42.4    47.0    47.0    90.4    90.3     0.1

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 300) 61071 SEVN ML8 - 68918 ELCO     CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1608 : 61001 EAUCLAI8 - 61059 STRLNG18 CKT: 1    47.6    47.6    48.0    48.0    96.0    96.0     0.0

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 301) 61653 RIVERTN7 - 62180 RIVTON 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1931 : 62479 BALLCLB8 - 62487 DEER RV8 CKT: 1    59.8    59.6    56.0    56.0   106.8   106.5     0.3
  SINGLE 3359 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1    56.8    56.2    56.0    56.0   101.4   100.3     1.1
  SINGLE 1682 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1    56.3    56.3    56.0    56.0   100.6   100.5     0.1
  SINGLE 1930 : 62479 BALLCLB8 - 62483 BENA TP8 CKT: 1    56.1    56.1    56.0    56.0   100.2   100.1     0.1
  SINGLE 1934 : 62482 SALEMSW8 - 62483 BENA TP8 CKT: 1    54.7    54.6    56.0    56.0    97.7    97.6     0.1
  SINGLE 1935 : 62482 SALEMSW8 - 62489 REMER  8 CKT: 1    53.1    53.0    56.0    56.0    94.8    94.7     0.1
  SINGLE 1805 : 62186 THUN LK8 - 62489 REMER  8 CKT: 1    51.4    51.3    56.0    56.0    91.7    91.6     0.1
  SINGLE 1906 : 62450 DEER RV7 - 62487 DEER RV8 CKT: 1    50.4   .....    56.0   .....    90.1   .....   *NEW*
  SINGLE 3379 : 62450 DEER RV7 - 61780 DEER RV7 CKT: 1    50.4   .....    56.0   .....    90.1   .....   *NEW*

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 302) 62124 ZIMERMN8 - 62149 N ER TP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1821 : 62273 MILACAD8 - 62301 MILACA 8 CKT: 1    60.5    60.5    53.0    53.0   125.7   125.7     0.0

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 303) 62272 GILMAN 8 - 62290 MAYHWSW8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 3359 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1    21.8    21.8    19.3    19.3   115.2   115.4    -0.2
  SINGLE 1682 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1    21.7    21.7    19.3    19.3   115.0   115.1    -0.1
  SINGLE 1849 : 62297 BENTON 8 - 62300 MINDEN 8 CKT: 1    16.7    16.7    19.3    19.3    97.0    97.0     0.0

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 304) 62275 PINECTY8 - 62285 RUSH SW8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1847 : 62294 RUSH TP8 - 63022 CAMBRDG8 CKT: 1    23.7    23.7    24.3    24.3    97.8    97.7     0.1
  SINGLE 1844 : 62293 RUSH CY8 - 62294 RUSH TP8 CKT: 1    23.7    23.7    24.3    24.3    97.7    97.6     0.1
  SINGLE 1682 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1    22.0    22.0    24.3    24.3    91.7    91.5     0.2
  SINGLE 3359 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1    21.9    21.9    24.3    24.3    91.4    91.4     0.0
  SINGLE 1834 : 62280 OGILVIE8 - 62303 MORA   8 CKT: 1    22.4   .....    24.3   .....    90.0   .....   *NEW*

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 305) 62293 RUSH CY8 - 63048 RUSH CY4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1744 : 62108 HUGO   8 - 62128 BLAINE 8 CKT: 1    96.8    96.7    84.0    84.0   115.2   115.1     0.1
  SINGLE 1742 : 62106 FOREST 8 - 62108 HUGO   8 CKT: 1    88.4    88.3    84.0    84.0   105.2   105.2     0.0
  SINGLE 1787 : 62141 ISANTTP8 - 62143 ATHNSSW8 CKT: 1    87.4    87.3    84.0    84.0   104.0   104.0     0.0
  SINGLE 1771 : 62128 BLAINE 8 - 63040 BLAINE 4 CKT: 1    80.5    80.4    84.0    84.0    95.8    95.7     0.1
  SINGLE 1682 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1    78.9    78.9    84.0    84.0    94.0    93.9     0.1
  SINGLE 1739 : 62104 COOPERC8 - 62144 SDRVLSW8 CKT: 1    78.9    78.9    84.0    84.0    93.9    93.9     0.0
  SINGLE 3359 : 61910 MILACA 4 - 63045 BENTON 4 CKT: 1    78.8    78.8    84.0    84.0    93.9    93.8     0.1
  SINGLE 1788 : 62141 ISANTTP8 - 62296 INDSTTP8 CKT: 1    77.3    77.3    84.0    84.0    92.1    92.0     0.1
  SINGLE 1768 : 62126 PIPELIN8 - 62134 ELKR14S8 CKT: 1    77.4    77.3    84.0    84.0    92.1    92.0     0.1
  SINGLE 1769 : 62126 PIPELIN8 - 62135 STFRNCS8 CKT: 1    76.7    76.6    84.0    84.0    91.3    91.2     0.1
  SINGLE 1834 : 62280 OGILVIE8 - 62303 MORA   8 CKT: 1    76.5    76.5    84.0    84.0    91.1    91.0     0.1
  SINGLE 1743 : 62106 FOREST 8 - 62140 MARTNTP8 CKT: 1    75.9    75.9    84.0    84.0    90.4    90.3     0.1
  SINGLE 1832 : 62280 OGILVIE8 - 62301 MILACA 8 CKT: 1    75.9    75.8    84.0    84.0    90.3    90.2     0.1

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 306) 62427 WILLMAR8 - 62429 PNNCKTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 2051 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1    40.4    40.2    24.3    24.3   166.9   165.9     1.0
  500         : ** MULTIPLE CONTINGENCY **                27.9    27.8    24.3    24.3   116.1   115.5     0.6
              : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
              : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1
  SINGLE 1712 : 62005 KERKHOT7 - 62425 WILLMAR7 CKT: C    25.7    25.6    24.3    24.3   105.8   105.2     0.6
  SINGLE 1887 : 62425 WILLMAR7 - 62427 WILLMAR8 CKT: 1    25.7    25.6    24.3    24.3   105.8   105.2     0.6
  640         : ** MULTIPLE CONTINGENCY **                25.7    25.6    24.3    24.3   105.8   105.2     0.6
              : 62425 WILLMAR7 - 62427 WILLMAR8 CKT: 1
              : 62425 WILLMAR7 - 62005 KERKHOT7 CKT: C
  690         : ** MULTIPLE CONTINGENCY **                25.5    25.4    24.3    24.3   104.9   104.3     0.6
              : 62425 WILLMAR7 - 62005 KERKHOT7 CKT: C
              : 60357 MAYNARD7 - 62005 KERKHOT7 CKT: 1
              : 62005 KERKHOT7 - 62006 KERKHO 7 CKT: 1
              : 62006 KERKHO 7 - 62001 BENSON 7 CKT: 1
  690     P1  : ** MULTIPLE CONTINGENCY **                25.5    25.4    24.3    24.3   104.9   104.3     0.6
              : 62425 WILLMAR7 - 62005 KERKHOT7 CKT: C
              : 60357 MAYNARD7 - 62005 KERKHOT7 CKT: 1
              : 62005 KERKHOT7 - 62006 KERKHO 7 CKT: 1
              : 62006 KERKHO 7 - 62001 BENSON 7 CKT: 1
  SINGLE 1893 : 62427 WILLMAR8 - 63050 WILLMAR4 CKT: 1    25.1    25.1    24.3    24.3   104.1   103.7     0.4

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 307) 62427 WILLMAR8 - 63050 WILLMAR4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  690         : ** MULTIPLE CONTINGENCY **                81.6    81.5    84.0    84.0    97.2    97.1     0.1
              : 62425 WILLMAR7 - 62005 KERKHOT7 CKT: C
              : 60357 MAYNARD7 - 62005 KERKHOT7 CKT: 1
              : 62005 KERKHOT7 - 62006 KERKHO 7 CKT: 1
              : 62006 KERKHO 7 - 62001 BENSON 7 CKT: 1
  690     P1  : ** MULTIPLE CONTINGENCY **                81.6    81.5    84.0    84.0    97.2    97.1     0.1
              : 62425 WILLMAR7 - 62005 KERKHOT7 CKT: C
              : 60357 MAYNARD7 - 62005 KERKHOT7 CKT: 1
              : 62005 KERKHOT7 - 62006 KERKHO 7 CKT: 1
              : 62006 KERKHO 7 - 62001 BENSON 7 CKT: 1
  640         : ** MULTIPLE CONTINGENCY **                81.6    81.4    84.0    84.0    97.1    96.9     0.2
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```
              : 62425 WILLMAR7 - 62427 WILLMAR8 CKT: 1
              : 62425 WILLMAR7 - 62005 KERKHOT7 CKT: C
  SINGLE 1712 : 62005 KERKHOT7 - 62425 WILLMAR7 CKT: C    81.6    81.4    84.0    84.0    97.1    96.9     0.2
  SINGLE 1887 : 62425 WILLMAR7 - 62427 WILLMAR8 CKT: 1    81.6    81.4    84.0    84.0    97.1    96.9     0.2

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 308) 62429 PNNCKTP8 - 66298 GRANITF8 CKT:  1           PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2051 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1    42.8    42.6    24.3    24.3   173.7   172.7     1.0
  500         : ** MULTIPLE CONTINGENCY **                30.2    30.1    24.3    24.3   123.1   122.5     0.6
              : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
              : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1
  SINGLE 1712 : 62005 KERKHOT7 - 62425 WILLMAR7 CKT: C    27.6    27.5    24.3    24.3   112.8   112.2     0.6
  SINGLE 1887 : 62425 WILLMAR7 - 62427 WILLMAR8 CKT: 1    27.6    27.5    24.3    24.3   112.8   112.2     0.6
  640         : ** MULTIPLE CONTINGENCY **                27.6    27.5    24.3    24.3   112.8   112.2     0.6
              : 62425 WILLMAR7 - 62427 WILLMAR8 CKT: 1
              : 62425 WILLMAR7 - 62005 KERKHOT7 CKT: C
  690         : ** MULTIPLE CONTINGENCY **                27.5    27.3    24.3    24.3   111.8   111.3     0.5
              : 62425 WILLMAR7 - 62005 KERKHOT7 CKT: C
              : 60357 MAYNARD7 - 62005 KERKHOT7 CKT: 1
              : 62005 KERKHOT7 - 62006 KERKHO 7 CKT: 1
              : 62006 KERKHO 7 - 62001 BENSON 7 CKT: 1
  690     P1  : ** MULTIPLE CONTINGENCY **                27.5    27.3    24.3    24.3   111.8   111.3     0.5
              : 62425 WILLMAR7 - 62005 KERKHOT7 CKT: C
              : 60357 MAYNARD7 - 62005 KERKHOT7 CKT: 1
              : 62005 KERKHOT7 - 62006 KERKHO 7 CKT: 1
              : 62006 KERKHO 7 - 62001 BENSON 7 CKT: 1
  SINGLE 1893 : 62427 WILLMAR8 - 63050 WILLMAR4 CKT: 1    27.3    27.2    24.3    24.3   111.2   110.8     0.4
  SINGLE 2916 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1    23.0    22.8    24.3    24.3    92.3    91.7     0.6
  795         : ** MULTIPLE CONTINGENCY **                22.9    22.8    24.3    24.3    92.2    91.7     0.5
              : 66550 GRANITF4 - 60150 MNVLTAP4 CKT: 1
              : 60148 MINVALY7 - 60149 MINVALT4 CKT: C
              : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1
              : 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1
              : 63054 PANTHER4 - 60742 PANTHER8 CKT: 1

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 309) 62090 PRKWOOD7 - 62132 PRKWOOD8 CKT:  1           PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1771 : 62128 BLAINE 8 - 63040 BLAINE 4 CKT: 1    76.7    76.7    84.0    84.0    91.3    91.4    -0.1

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 310) 62935 MAPLELK8 - 63024 MAPLE 1G CKT:  1           PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1776 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1    37.9    37.9    24.3    24.3   168.2   168.1     0.1
  SINGLE 2021 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1    27.9    27.9    24.3    24.3   121.4   121.3     0.1
  SINGLE 3372 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1    26.9    26.9    24.3    24.3   117.3   117.3     0.0
  680         : ** MULTIPLE CONTINGENCY **                26.6    26.6    24.3    24.3   116.1   115.8     0.3
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
  SINGLE 1785 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1    26.3    26.3    24.3    24.3   114.6   114.5     0.1
  SINGLE 1783 : 62138 BRGGLKS8 - 62139 CABLETP8 CKT: 1    24.0    24.0    24.3    24.3   103.8   103.7     0.1
  SINGLE 1795 : 62150 E BL TP8 - 62965 ELKRWS18 CKT: 1    20.9   .....    24.3   .....    90.0   .....   *NEW*
  SINGLE 1732 : 62100 BIG LAK8 - 62150 E BL TP8 CKT: 1    20.9   .....    24.3   .....    90.0   .....   *NEW*

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 311) 62944 GOOSETP8 - 63024 MAPLE 1G CKT:  1           PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1776 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1    37.7    37.7    24.3    24.3   168.3   168.1     0.2
  SINGLE 2021 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1    27.8    27.8    24.3    24.3   121.4   121.3     0.1
  SINGLE 3372 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1    26.8    26.8    24.3    24.3   117.4   117.3     0.1
  680         : ** MULTIPLE CONTINGENCY **                26.5    26.5    24.3    24.3   116.1   115.8     0.3
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
```

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             : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
  SINGLE 1785 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1    26.3    26.3    24.3    24.3   114.6   114.5     0.1
  SINGLE 1783 : 62138 BRGGLKS8 - 62139 CABLETP8 CKT: 1    24.0    24.0    24.3    24.3   103.8   103.7     0.1
  SINGLE 1795 : 62150 E BL TP8 - 62965 ELKRWS18 CKT: 1    20.9   .....    24.3   .....    90.0   .....   *NEW*
  SINGLE 1732 : 62100 BIG LAK8 - 62150 E BL TP8 CKT: 1    20.9   .....    24.3   .....    90.0   .....   *NEW*

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 312) 62126 PIPELIN8 - 62134 ELKR14S8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1739 : 62104 COOPERC8 - 62144 SDRVLSW8 CKT: 1    46.0    46.0    47.0    47.0   100.1   100.1     0.0
  SINGLE 1846 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1    43.4    43.4    47.0    47.0    94.6    94.5     0.1

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 313) 62128 BLAINE 8 - 63040 BLAINE 4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1846 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1    92.1    92.1    95.6    95.6    96.4    96.3     0.1
  SINGLE 1757 : 62118 SPRLKPK8 - 62132 PRKWOOD8 CKT: 1    86.7    86.7    95.6    95.6    90.7    90.7     0.0

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 314) 62273 MILACAD8 - 62301 MILACA 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1765 : 62124 ZIMERMN8 - 62149 N ER TP8 CKT: 1    63.2    63.2    68.8    68.8    94.0    94.0     0.0
  SINGLE 1794 : 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1    63.2    63.2    68.8    68.8    94.0    93.9     0.1
  SINGLE 1777 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1    63.1    63.1    68.8    68.8    93.9    93.9     0.0

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 315) 62104 COOPERC8 - 62144 SDRVLSW8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1768 : 62126 PIPELIN8 - 62134 ELKR14S8 CKT: 1    46.3    46.3    53.0    53.0    90.9    90.9     0.0

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 316) 62118 SPRLKPK8 - 62132 PRKWOOD8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1771 : 62128 BLAINE 8 - 63040 BLAINE 4 CKT: 1    59.0    59.0    53.0    53.0   110.3   110.4    -0.1
  SINGLE 1770 : 62128 BLAINE 8 - 62130 LXNGTSW8 CKT: 1    49.1    49.1    53.0    53.0    91.6    91.6     0.0

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 317) 62100 BIG LAK8 - 62142 REMMLTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1776 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1    39.0    39.0    53.0    53.0    93.8    93.7     0.1

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 318) 62119 THOMPLK8 - 62137 BCKRNSP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1776 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1    58.4    58.4    53.0    53.0   131.1   131.0     0.1

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 319) 62119 THOMPLK8 - 62142 REMMLTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1776 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1    46.9    46.9    53.0    53.0   110.9   110.8     0.1

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 320) 62125 BECKER 8 - 62137 BCKRNSP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1776 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1    60.4    60.4    53.0    53.0   130.9   130.8     0.1

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 321) 62297 BENTON 8 - 63045 BENTON 4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 1776 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1    91.8    91.7    84.0    84.0   109.3   109.2     0.1

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 322) 62134 ELKR14S8 - 63043 ELK RIV4 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
```

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  SINGLE 1779 : 62134 ELKR14S8 - 63043 ELK RIV4 CKT: 1    99.5    99.0    95.6    95.6   104.1   103.5     0.6

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 323) 62965 ELKRWS18 - 62967 ELKRWS28 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------------
  SINGLE 3372 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1    53.2    53.1    53.0    53.0   101.3   101.2     0.1
  680         : ** MULTIPLE CONTINGENCY **                53.2    53.2    53.0    53.0   101.3   101.4    -0.1
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
  SINGLE 1785 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1    52.4    52.3    53.0    53.0    99.6    99.5     0.1
  SINGLE 1783 : 62138 BRGGLKS8 - 62139 CABLETP8 CKT: 1    48.6    48.6    53.0    53.0    92.3    92.3     0.0

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 324) 62279 BRAHAM 8 - 62291 GRASTON8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------------
  SINGLE 1847 : 62294 RUSH TP8 - 63022 CAMBRDG8 CKT: 1    21.9    21.8    19.3    19.3   117.3   117.2     0.1
  SINGLE 1844 : 62293 RUSH CY8 - 62294 RUSH TP8 CKT: 1    21.8    21.8    19.3    19.3   116.9   116.8     0.1
  SINGLE 1787 : 62141 ISANTTP8 - 62143 ATHNSSW8 CKT: 1    20.7    20.7    19.3    19.3   109.7   109.7     0.0

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 325) 62134 ELKR14S8 - 62968 ELKRNTH8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------------
  SINGLE 1821 : 62273 MILACAD8 - 62301 MILACA 8 CKT: 1    64.6    64.6    53.0    53.0   125.6   125.5     0.1
  SINGLE 1680 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1   .....    47.2   .....    53.0   .....    90.1  *ELIM*

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 326) 62149 N ER TP8 - 62968 ELKRNTH8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------------
  SINGLE 1821 : 62273 MILACAD8 - 62301 MILACA 8 CKT: 1    63.2    63.2    53.0    53.0   125.6   125.6     0.0
  SINGLE 1680 : 61910 MILACA 4 - 62301 MILACA 8 CKT: 1   .....    46.6   .....    53.0   .....    90.1  *ELIM*

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 327) 62302 ISLE   8 - 62642 ONAMIA 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------------
  SINGLE 1832 : 62280 OGILVIE8 - 62301 MILACA 8 CKT: 1    23.8    23.8    24.3    24.3    99.9    99.8     0.1

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 328) 62642 ONAMIA 8 - 62652 RUMRVTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------------
  SINGLE 1832 : 62280 OGILVIE8 - 62301 MILACA 8 CKT: 1    28.4    28.4    24.3    24.3   119.1   119.0     0.1
  SINGLE 1846 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1    21.6    21.6    24.3    24.3    91.6    91.5     0.1

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 329) 62141 ISANTTP8 - 62143 ATHNSSW8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------------
  SINGLE 1846 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1    54.1    54.1    53.0    53.0   108.7   108.7     0.0

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 330) 62280 OGILVIE8 - 62302 ISLE   8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------------
  SINGLE 1964 : 62642 ONAMIA 8 - 62652 RUMRVTP8 CKT: 1    20.0    20.0    13.7    13.7   150.7   150.4     0.3
  SINGLE 1852 : 62302 ISLE   8 - 62642 ONAMIA 8 CKT: 1    13.6    13.6    13.7    13.7   101.1   101.1     0.0

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 331) 62993 WILSWTP8 - 62994 WILMRTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------------
  SINGLE 1891 : 62427 WILLMAR8 - 62992 WILMRSO8 CKT: 1    52.6    52.6    24.3    24.3   221.5   221.2     0.3
  SINGLE 2033 : 62992 WILMRSO8 - 62995 WILMR E8 CKT: 1    37.7    37.7    24.3    24.3   158.3   158.0     0.3
  SINGLE 2031 : 62990 WILMRMN8 - 62995 WILMR E8 CKT: 1    29.0    29.0    24.3    24.3   120.4   120.2     0.2

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 332) 62427 WILLMAR8 - 62992 WILMRSO8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
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  SINGLE 1892 : 62427 WILLMAR8 - 62993 WILSWTP8 CKT: 1    60.5    60.5    57.4    57.4   104.2   104.0     0.2

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 333) 62425 WILLMAR7 - 62427 WILLMAR8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 2051 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1   104.1   103.8    84.0    84.0   124.0   123.6     0.4
  500         : ** MULTIPLE CONTINGENCY **                80.3    80.1    84.0    84.0    95.6    95.4     0.2
              : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
              : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1
  SINGLE 1893 : 62427 WILLMAR8 - 63050 WILLMAR4 CKT: 1    76.7    76.6    84.0    84.0    91.3    91.2     0.1

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 334) 62464 LKHD GW8 - 62465 BRANDEN8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1908 : 62459 CRMWLLD8 - 62470 CROMWLL8 CKT: 1    13.8    13.7    13.7    13.7    99.6    99.4     0.2
  SINGLE 3380 : 62470 CROMWLL8 - 61655 CROMWLL7 CKT: 1    13.3    13.3    13.7    13.7    97.3    97.2     0.1

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 335) 62464 LKHD GW8 - 62471 GOWANSW8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1908 : 62459 CRMWLLD8 - 62470 CROMWLL8 CKT: 1    13.6    13.5    13.7    13.7    98.9    98.5     0.4
  SINGLE 3380 : 62470 CROMWLL8 - 61655 CROMWLL7 CKT: 1    13.1    13.1    13.7    13.7    96.5    96.5     0.0

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 336) 62465 BRANDEN8 - 62466 GRANDLK8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 3380 : 62470 CROMWLL8 - 61655 CROMWLL7 CKT: 1    14.4    14.4    13.7    13.7   103.8   103.7     0.1

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 337) 62280 OGILVIE8 - 62301 MILACA 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 1964 : 62642 ONAMIA 8 - 62652 RUMRVTP8 CKT: 1    37.9    37.8    41.5    41.5    91.2    91.1     0.1

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 338) 66298 GRANITF8 - 66551 GRANITF7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 2051 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1    52.5    52.3    42.0    42.0   125.0   124.5     0.5
  500         : ** MULTIPLE CONTINGENCY **                40.0    39.9    42.0    42.0    95.2    94.9     0.3
              : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
              : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1

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 339) 60133 SHEYNNE4 - 63336 AUDUBON4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 2192 : 63329 WAHPETN4 - 63331 FERGSFL4 CKT: 1   316.0   314.9   318.0   318.0   102.4   101.9     0.5
  SINGLE 2053 : 63051 HENNING4 - 63331 FERGSFL4 CKT: 1   285.2   284.0   318.0   318.0    92.0    91.6     0.4
  SINGLE 2052 : 63051 HENNING4 - 63052 INMAN  4 CKT: 1   284.4   283.3   318.0   318.0    91.6    91.2     0.4

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 340) 62526 RUSH LK7 - 62531 INMAN  7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 2053 : 63051 HENNING4 - 63331 FERGSFL4 CKT: 1    69.8    69.2    71.4    71.4   104.1   103.5     0.6
  SINGLE 2052 : 63051 HENNING4 - 63052 INMAN  4 CKT: 1    68.8    68.5    71.4    71.4   102.6   102.0     0.6

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 341) 63194 FERGSFLY - 63231 FERGSFL7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  SINGLE 2053 : 63051 HENNING4 - 63331 FERGSFL4 CKT: 1   120.6   119.9   112.0   112.0   107.7   107.1     0.6
  SINGLE 2052 : 63051 HENNING4 - 63052 INMAN  4 CKT: 1   119.1   118.7   112.0   112.0   106.3   106.0     0.3

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 342) 63194 FERGSFLY - 63331 FERGSFL4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
```

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-----------------------------------------------------------------------------------------------------------------------
  SINGLE 2053 : 63051 HENNING4 - 63331 FERGSFL4 CKT: 1   120.7   120.0   112.0   112.0   107.7   107.2     0.5
  SINGLE 2052 : 63051 HENNING4 - 63052 INMAN  4 CKT: 1   119.3   118.9   112.0   112.0   106.6   106.2     0.4

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 343) 63223 HOOT LK7 - 63231 FERGSFL7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------------
  SINGLE 2053 : 63051 HENNING4 - 63331 FERGSFL4 CKT: 1   120.2   119.6    96.0    96.0   126.8   126.1     0.7
  SINGLE 2052 : 63051 HENNING4 - 63052 INMAN  4 CKT: 1   118.7   118.3    96.0    96.0   124.8   124.3     0.5

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 344) 63190 MAPLER2Y - 66754 MAPLE R4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------------
  SINGLE 2064 : 63189 MAPLER1Y - 66754 MAPLE R4 CKT: 1   364.6   364.1   336.0   336.0   108.5   108.4     0.1
  SINGLE 2065 : 63189 MAPLER1Y - 66792 MAPLE R3 CKT: 1   364.6   364.1   336.0   336.0   108.5   108.4     0.1
  MAPLER XFR1 : ** MULTIPLE CONTINGENCY **               364.6   364.1   336.0   336.0   108.5   108.4     0.1
              : 63189 MAPLER1Y - 63359 MAPLER19 CKT: 1
              : 63189 MAPLER1Y - 66754 MAPLE R4 CKT: 1
              : 63189 MAPLER1Y - 66792 MAPLE R3 CKT: 1

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 345) 63190 MAPLER2Y - 66792 MAPLE R3 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------------
  SINGLE 2064 : 63189 MAPLER1Y - 66754 MAPLE R4 CKT: 1   367.6   367.1   336.0   336.0   109.4   109.2     0.2
  SINGLE 2065 : 63189 MAPLER1Y - 66792 MAPLE R3 CKT: 1   367.6   367.1   336.0   336.0   109.4   109.2     0.2
  MAPLER XFR1 : ** MULTIPLE CONTINGENCY **               367.6   367.1   336.0   336.0   109.4   109.2     0.2
              : 63189 MAPLER1Y - 63359 MAPLER19 CKT: 1
              : 63189 MAPLER1Y - 66754 MAPLE R4 CKT: 1
              : 63189 MAPLER1Y - 66792 MAPLE R3 CKT: 1

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 346) 63189 MAPLER1Y - 66754 MAPLE R4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------------
  SINGLE 2066 : 63190 MAPLER2Y - 66754 MAPLE R4 CKT: 1   364.6   364.1   336.0   336.0   108.5   108.4     0.1
  SINGLE 2067 : 63190 MAPLER2Y - 66792 MAPLE R3 CKT: 1   364.6   364.1   336.0   336.0   108.5   108.4     0.1
  MAPLER XFR2 : ** MULTIPLE CONTINGENCY **               364.6   364.1   336.0   336.0   108.5   108.4     0.1
              : 63190 MAPLER2Y - 63360 MAPLER29 CKT: 1
              : 63190 MAPLER2Y - 66754 MAPLE R4 CKT: 1
              : 63190 MAPLER2Y - 66792 MAPLE R3 CKT: 1

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 347) 63189 MAPLER1Y - 66792 MAPLE R3 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------------
  SINGLE 2066 : 63190 MAPLER2Y - 66754 MAPLE R4 CKT: 1   367.6   367.1   336.0   336.0   109.4   109.2     0.2
  SINGLE 2067 : 63190 MAPLER2Y - 66792 MAPLE R3 CKT: 1   367.6   367.1   336.0   336.0   109.4   109.2     0.2
  MAPLER XFR2 : ** MULTIPLE CONTINGENCY **               367.6   367.1   336.0   336.0   109.4   109.2     0.2
              : 63190 MAPLER2Y - 63360 MAPLER29 CKT: 1
              : 63190 MAPLER2Y - 66754 MAPLE R4 CKT: 1
              : 63190 MAPLER2Y - 66792 MAPLE R3 CKT: 1

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 348) 62003 JOHNJCT7 - 63216 ORTONVL7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------------
  SINGLE 2188 : 63314 BIGSTON4 - 66503 BLAIR  4 CKT: 1   129.0   128.9    96.6    96.6   125.1   125.0     0.1
  SINGLE 2190 : 63327 HANKSON4 - 63329 WAHPETN4 CKT: 1   109.0   108.3    96.6    96.6   105.5   104.9     0.6
  SINGLE 2447 : 66503 BLAIR  4 - 66550 GRANITF4 CKT: 1    99.2    98.6    96.6    96.6    96.2    95.6     0.6
  SINGLE 2187 : 63314 BIGSTON4 - 63325 BROWNSV4 CKT: 1    97.6    97.2    96.6    96.6    94.5    94.0     0.5
  SINGLE 2189 : 63325 BROWNSV4 - 63327 HANKSON4 CKT: 1    96.3    95.8    96.6    96.6    93.3    92.7     0.6

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 349) 62003 JOHNJCT7 - 66555 MORRIS 7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------------
  SINGLE 2188 : 63314 BIGSTON4 - 66503 BLAIR  4 CKT: 1   107.4   107.4   106.0   106.0   101.0   101.0     0.0
```

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  SINGLE 2192 : 63329 WAHPETN4 - 63331 FERGSFL4 CKT: 1    99.8    99.4   106.0   106.0    92.8    92.3     0.5

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 350) 63219 GRANTCO7 - 66555 MORRIS 7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2192 : 63329 WAHPETN4 - 63331 FERGSFL4 CKT: 1   122.6   122.0    96.0    96.0   129.5   128.7     0.8

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 351) 66756 SQBUTTE4 - 66791 CENTER 3 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2587 : 66791 CENTER 3 - 67316 COYOTE 3 CKT: 1   317.7   317.2   336.0   336.0    94.6    94.4     0.2
  SINGLE 2196 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1   313.4   313.3   336.0   336.0    93.3    93.2     0.1

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 352) 66292 WHITE  T - 66537 WHITE  3 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2449 : 66504 BROOKNG7 - 66538 WHITE  7 CKT: 1   197.0   197.0   200.0   200.0    98.5    98.5     0.0

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 353) 66292 WHITE  T - 66538 WHITE  7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2449 : 66504 BROOKNG7 - 66538 WHITE  7 CKT: 1   195.4   195.4   200.0   200.0    97.7    97.7     0.0

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 354) 66470 BISON  4 - 66497 MAURINE4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 3594 : 67131 LARAMIE3 - 67118 LARAM31G CKT: 1   .....   144.4   .....   160.0   .....    90.1  *ELIM*

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 355) 66583 DENISON8 - 66593 J4IDAGR8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2520 : 66565 SIOUXCY4 - 66567 DENISON4 CKT: 1    37.8    37.2    41.0    41.0    97.1    95.1     2.0

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 356) 66593 J4IDAGR8 - 63893 LT SX  8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2520 : 66565 SIOUXCY4 - 66567 DENISON4 CKT: 1    40.9    39.7    41.0    41.0    98.5    95.6     2.9

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 357) 66594 J5ONAWA8 - 63886 SALIX 8  CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2520 : 66565 SIOUXCY4 - 66567 DENISON4 CKT: 1    45.9    45.5    41.0    41.0   109.3   108.3     1.0

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 358) 67308 BEULAH 7 - 67318 COYOTE 7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2587 : 66791 CENTER 3 - 67316 COYOTE 3 CKT: 1   313.1   313.0   101.4   101.4   293.2   293.1     0.1

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 359) 67308 BEULAH 7 - 67343 HESKETT7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2587 : 66791 CENTER 3 - 67316 COYOTE 3 CKT: 1   126.0   125.9    88.0    88.0   137.8   137.8     0.0

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 360) 67316 COYOTE 3 - 67318 COYOTE 7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2587 : 66791 CENTER 3 - 67316 COYOTE 3 CKT: 1   438.5   438.5   168.0   168.0   261.0   261.0     0.0

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 361) 67218 AVSDC7TY - 67219 AVSDC8TY CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2643 : 67218 AVSDC7TY - 67222 AVSD11TY CKT: 1    56.7    56.7    60.0    60.0    90.7    90.7     0.0
```

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==================================================================================================================
 362) 34014 ADAMS  5 - 34306 ADAMS  8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2713 : 34014 ADAMS  5 - 69526 BVR CRK5 CKT: 1    75.0    74.8    74.7    74.7   100.4   100.1     0.3

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 363) 34043 SAVANNA5 - 34347 SAVNA N9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2734 : 34043 SAVANNA5 - 34346 SAVNA S9 CKT: 1    22.4    22.4    22.4    22.4   100.0   100.0     0.0

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 364) 34043 SAVANNA5 - 34346 SAVNA S9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2735 : 34043 SAVANNA5 - 34347 SAVNA N9 CKT: 1    22.4    22.4    22.4    22.4   100.0   100.0     0.0

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 365) 34058 PERRY  5 - 34166 PERRY  9 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2747 : 34058 PERRY  5 - 34166 PERRY  9 CKT: 1    45.5    45.5    46.0    46.0    98.9    98.9     0.0

==================================================================================================================
 366) 34058 PERRY  5 - 34166 PERRY  9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2748 : 34058 PERRY  5 - 34166 PERRY  9 CKT: 2    45.5    45.5    46.0    46.0    99.0    99.0     0.0

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 367) 34059 BOONE  7 - 34163 BOONE  9 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2750 : 34059 BOONE  7 - 34163 BOONE  9 CKT: 1    73.7    73.7    50.0    50.0   147.5   147.4     0.1

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 368) 34066 M-TOWN 7 - 34159 M-TOWN 9 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2760 : 34066 M-TOWN 7 - 34159 M-TOWN 9 CKT: 1   108.8   108.8    93.0    93.0   116.9   117.0    -0.1

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 369) 34066 M-TOWN 7 - 34159 M-TOWN 9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2761 : 34066 M-TOWN 7 - 34159 M-TOWN 9 CKT: 2   108.8   108.8    93.0    93.0   116.9   117.0    -0.1

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 370) 34077 IA FALS7 - 34168 IA FALS9 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2763 : 34077 IA FALS7 - 34168 IA FALS9 CKT: 1    28.9    28.9    20.0    20.0   144.7   144.7     0.0

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 371) 34077 IA FALS7 - 34168 IA FALS9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2764 : 34077 IA FALS7 - 34168 IA FALS9 CKT: 2    29.1    29.1    20.0    20.0   145.3   145.3     0.0

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 372) 34086 WILMSBG7 - 34153 WILMSBG9 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2770 : 34086 WILMSBG7 - 34153 WILMSBG9 CKT: 1    19.1    19.1    13.0    13.0   147.0   147.0     0.0

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 373) 34097 6 ST   7 - 34100 6 ST 26G CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2778 : 34097 6 ST   7 - 34100 6 ST 26G CKT: 1    96.8    96.8    93.0    93.0   104.1   104.1     0.0

==================================================================================================================
 374) 34097 6 ST   7 - 34100 6 ST 26G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
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 SINGLE 2779 : 34097 6 ST   7 - 34100 6 ST 26G CKT: 2    96.9    96.9    93.0    93.0   104.2   104.2     0.0

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 375) 34103 MARION 7 - 34104 MARION 9 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 2783 : 34103 MARION 7 - 34104 MARION 9 CKT: 1    68.7    68.7    50.0    50.0   137.4   137.4     0.0

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 376) 34103 MARION 7 - 34104 MARION 9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 2784 : 34103 MARION 7 - 34104 MARION 9 CKT: 2    68.7    68.7    56.0    56.0   122.7   122.7     0.0

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 377) 34133 DUNDEE 7 - 34119 DUNDEE 9 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 2802 : 34133 DUNDEE 7 - 34119 DUNDEE 9 CKT: 1    18.3    18.3    13.0    13.0   140.9   140.9     0.0

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 378) 34133 DUNDEE 7 - 34119 DUNDEE 9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 2803 : 34133 DUNDEE 7 - 34119 DUNDEE 9 CKT: 2    18.3    18.3    13.0    13.0   141.1   141.1     0.0

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 379) 62427 WILLMAR8 - 62437 SVEATAP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 795         : ** MULTIPLE CONTINGENCY **               54.4    54.0    53.0    53.0   100.9   100.2     0.7
             : 66550 GRANITF4 - 60150 MNVLTAP4 CKT: 1
             : 60148 MINVALY7 - 60149 MINVALT4 CKT: C
             : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1
             : 60149 MINVALT4 - 60150 MNVLTAP4 CKT: 1
             : 63054 PANTHER4 - 60742 PANTHER8 CKT: 1
 SINGLE 2916 : 60150 MNVLTAP4 - 63054 PANTHER4 CKT: 1    54.4    53.9    53.0    53.0   100.8   100.0     0.8

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 380) 60279 BUFFRID7 - 60708 BUFFRIDG CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 2971 : 60279 BUFFRID7 - 60708 BUFFRIDG CKT: 1   209.9   209.8   120.0   120.0   174.9   174.9     0.0

==================================================================================================================
 381) 60279 BUFFRID7 - 60708 BUFFRIDG CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 2972 : 60279 BUFFRID7 - 60708 BUFFRIDG CKT: 2   209.9   209.8   120.0   120.0   174.9   174.9     0.0

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 382) 60803 MIESTAP8 - 62238 MIESVIL8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 3010 : 60342 WHAST  7 - 62258 WHASTNG8 CKT: 1    38.7    38.6    36.3    36.3   107.5   107.2     0.3

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 383) 60362 CHANRMB7 - 60715 CHANRMB9 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 3017 : 60362 CHANRMB7 - 60715 CHANRMB9 CKT: 1   141.6   141.6   120.0   120.0   118.0   118.0     0.0
 SINGLE 3019 : 60362 CHANRMB7 - 60715 CHANRMB9 CKT: 3   141.6   141.6   120.0   120.0   118.0   118.0     0.0

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 384) 60362 CHANRMB7 - 60715 CHANRMB9 CKT:  3          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 3017 : 60362 CHANRMB7 - 60715 CHANRMB9 CKT: 1   141.6   141.6   120.0   120.0   118.0   118.0     0.0
 SINGLE 3018 : 60362 CHANRMB7 - 60715 CHANRMB9 CKT: 2   141.6   141.6   120.0   120.0   118.0   118.0     0.0

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 385) 60362 CHANRMB7 - 60715 CHANRMB9 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
```

```
 SINGLE 3018 : 60362 CHANRMB7 - 60715 CHANRMB9 CKT: 2   141.6   141.6   120.0   120.0   118.0   118.0     0.0
 SINGLE 3019 : 60362 CHANRMB7 - 60715 CHANRMB9 CKT: 3   141.6   141.6   120.0   120.0   118.0   118.0     0.0

==================================================================================================================
 386) 60826 TRAVRSE8 - 61974 ST PETER CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 3021 : 60650 WILMART8 - 62336 JHNSNTP8 CKT: 1    49.9    49.8    48.0    48.0   104.0   103.6     0.4

==================================================================================================================
 387) 60765 MAPLELK8 - 62935 MAPLELK8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 3052 : 60717 WAKEFLD8 - 62846 FRHV TP8 CKT: 1    26.9    26.9    24.0    24.0   116.0   115.9     0.1
 SINGLE 3048 : 60705 LUXBGTP8 - 62846 FRHV TP8 CKT: 1    21.7    21.7    24.0    24.0    93.8    93.6     0.2

==================================================================================================================
 388) 60692 CYSTL T8 - 60729 GAYLORD8 CKT:  1  **NEW** PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 3150 : 60826 TRAVRSE8 - 62350 TRAVERS8 CKT: 1    41.0   .....    47.0   .....    90.6   .....   *NEW*

==================================================================================================================
 389) 60729 GAYLORD8 - 62078 HRTLND 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 3150 : 60826 TRAVRSE8 - 62350 TRAVERS8 CKT: 1    43.5    43.1    47.0    47.0    95.4    94.7     0.7

==================================================================================================================
 390) 60945 NSPGENO8 - 68810 GENOA    CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 885         : ** MULTIPLE CONTINGENCY **                48.3    48.2    47.0    47.0    99.6    99.6     0.0
             : 69507 SENECA 5 - 69511 BELLCTR5 CKT: 1
             : 69507 SENECA 5 - 69523 GENOA  5 CKT: 1
 SINGLE 3205 : 60944 VIROQUA8 - 69306 THICKORY CKT: 1    44.0    44.0    47.0    47.0    90.9    90.8     0.1

==================================================================================================================
 391) 60944 VIROQUA8 - 69306 THICKORY CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 885         : ** MULTIPLE CONTINGENCY **                48.5    48.5    47.0    47.0   103.4   103.3     0.1
             : 69507 SENECA 5 - 69511 BELLCTR5 CKT: 1
             : 69507 SENECA 5 - 69523 GENOA  5 CKT: 1
 SINGLE 3207 : 60945 NSPGENO8 - 68810 GENOA    CKT: 1    44.4    44.4    47.0    47.0    92.9    92.9     0.0
 SINGLE 3206 : 60945 NSPGENO8 - 68807 T RM     CKT: 1    43.7    43.7    47.0    47.0    91.3    91.3     0.0

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 392) 60944 VIROQUA8 - 68800 T VIO    CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 885         : ** MULTIPLE CONTINGENCY **                67.8    67.7    47.0    47.0   150.4   150.1     0.3
             : 69507 SENECA 5 - 69511 BELLCTR5 CKT: 1
             : 69507 SENECA 5 - 69523 GENOA  5 CKT: 1
 SINGLE 3212 : 60949 MONROCO8 - 68847 SPARTA   CKT: 1    45.3    45.2    47.0    47.0    95.0    95.0     0.0
 SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1    43.9    43.9    47.0    47.0    94.5    94.2     0.3

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 393) 34014 ADAMS  5 - 69547 ROCHSTR5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 3361 : 61948 BYRON  5 - 61906 MAPLE LF CKT: 1   211.4   211.0   201.0   201.0   108.4   108.1     0.3

==================================================================================================================
 394) 60741 LKLILLN8 - 60766 COSMSTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 3393 : 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1    34.5    34.3    37.0    37.0    95.4    94.8     0.6

==================================================================================================================
 395) 60741 LKLILLN8 - 62590 MLVILTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
```

```
 SINGLE 3393 : 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1    38.5    38.2    37.0    37.0   100.8   100.1     0.7

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 396) 60742 PANTHER8 - 62590 MLVILTP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 3393 : 62980 MCLEOD 4 - 63054 PANTHER4 CKT: 1    38.6    38.3    37.0    37.0   101.1   100.3     0.8

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 397) 63256 DONDPIP7 - 63356 DON PIP9 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 3444 : 63256 DONDPIP7 - 63356 DON PIP9 CKT: 1    14.4    14.4    14.0    14.0   103.1   103.1     0.0

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 398) 63246 BEMIDJI7 - 66710 NARY   7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 3452 : 63336 AUDUBON4 - 63053 HUBBARD4 CKT: 1   114.1   113.7   120.0   120.0    93.2    92.9     0.3

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 399) 66406 FTPECK 7 - 66410 FTPECK3G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 3496 : 66406 FTPECK 7 - 66410 FTPECK3G CKT: 2    22.3    22.3    22.0    22.0   101.2   101.2     0.0

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 400) 66511 GAVINS 7 - 64751 BLMFLD 7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 3529 : 66511 GAVINS 7 - 64845 HARTGTN7 CKT: 1    82.8    82.8    80.0    80.0   100.5   100.5     0.0
 SINGLE 3526 : 66510 FTRANDL7 - 64965 SPENCER7 CKT: 1    80.1    79.9    80.0    80.0    97.2    96.9     0.3

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 401) 66538 WHITE  7 -  6440 GI0303F1 CKT:  2          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 3541 : 66538 WHITE  7 -  6440 GI0303F1 CKT: 1   201.2   201.2   120.0   120.0   167.7   167.6     0.1

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 402) 66538 WHITE  7 -  6440 GI0303F1 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 3542 : 66538 WHITE  7 -  6440 GI0303F1 CKT: 2   201.2   201.2   120.0   120.0   167.7   167.6     0.1

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 403) 63908 SAC    5 - 64230 POMEROY5 CKT:  1  **NEW** PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 3550 : 66563 SPENCER5 - 63713 OSGOOD 5 CKT: 1   200.6   .....   216.0   .....    90.1   .....   *NEW*

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 404) 66303 SIOUXC1T - 66564 SIOUXCY3 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 2299 : 66306 SIOUXC2T - 66564 SIOUXCY3 CKT: 1   .....   225.4   .....   250.0   .....    90.1  *ELIM*

==================================================================================================================
 405) 66566 SIOUXCY5 - 66574 SIOUXCY8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 3554 : 66566 SIOUXCY5 - 63889 PLYMOTH5 CKT: 1    78.7    76.2    75.0    75.0   104.9   101.6     3.3

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 406) 66574 SIOUXCY8 - 63890 PLYMOTH8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 SINGLE 3554 : 66566 SIOUXCY5 - 63889 PLYMOTH5 CKT: 1    55.9    54.0    45.0    45.0   122.4   118.0     4.4

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 407) 60153 MNTCELO7 - 60269 HASSAN 7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
 009   2     : ** MULTIPLE CONTINGENCY **               155.1   154.8   140.0   140.0   112.1   111.9     0.2
             : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
```

```
              : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
              : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1
              : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
              : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
              : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
              : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
  SHC-CNC/ECK3: ** MULTIPLE CONTINGENCY **              137.7   137.6   140.0   140.0    95.7    95.5     0.2
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1

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 408) 62101 BUNKER 8 - 62147 BNKRLK 8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  009   2     : ** MULTIPLE CONTINGENCY **               73.6    73.5    67.9    67.9   105.7   105.5     0.2
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
              : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1
              : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
              : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
              : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
              : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1
  CNC-SHC/BUL3: ** MULTIPLE CONTINGENCY **               69.4    69.2    67.9    67.9    99.7    99.4     0.3
              : 60202 COON CK3 - 60160 SHERCO 3 CKT: 1
              : 60202 COON CK3 - 63031 BUNKER 3 CKT: 1

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 409) 62147 BNKRLK 8 - 63046 BUNKER 4 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  CNC-SHC/BUL3: ** MULTIPLE CONTINGENCY **              104.7   104.6   112.0   112.0    93.5    93.4     0.1
              : 60202 COON CK3 - 60160 SHERCO 3 CKT: 1
              : 60202 COON CK3 - 63031 BUNKER 3 CKT: 1

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 410) 60181 ALDRICH7 - 60210 FIFTHST7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  022       1 : ** MULTIPLE CONTINGENCY **              207.3   207.0   207.0   207.0    98.1    97.9     0.2
              : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
              : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
              : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
              : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
              : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
              : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
              : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
              : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
              : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
              : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
  RIV TRIPLE  : ** MULTIPLE CONTINGENCY **              199.7   199.4   207.0   207.0    94.5    94.4     0.1
              : 60240 RIVRSID7 - 60226 MAIN ST7 CKT: 1
              : 60240 RIVRSID7 - 60209 ELLOTPK7 CKT: 1
              : 60240 RIVRSID7 - 60210 FIFTHST7 CKT: 1
  022       3 : ** MULTIPLE CONTINGENCY **              193.3   193.1   207.0   207.0    91.7    91.6     0.1
              : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
              : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
              : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
              : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
              : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
              : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
  CNC-KOL/TER3: ** MULTIPLE CONTINGENCY **              190.3   190.1   207.0   207.0    90.4    90.3     0.1
              : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
              : 60202 COON CK3 - 60251 TERMINL3 CKT: 1

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 411) 60203 COON CK7 - 60253 TWIN LK7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
```

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-----------------------------------------------------------------------------------------------------------------
 022       1 : ** MULTIPLE CONTINGENCY **                382.1   381.2   371.0   371.0   103.9   103.6     0.3
             : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
             : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
             : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
             : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
             : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
             : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
             : 61492 TERMID1Y - 61187 TERTER19 CKT: 1
             : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
             : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
             : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
 022       3 : ** MULTIPLE CONTINGENCY **                364.8   363.9   371.0   371.0    99.2    98.9     0.3
             : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
             : 60202 COON CK3 - 60251 TERMINL3 CKT: 1
             : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
             : 60251 TERMINL3 - 61491 TERMID2Y CKT: 1
             : 61491 TERMID2Y - 60252 TERMINL7 CKT: 1
             : 61491 TERMID2Y - 61188 TERTER29 CKT: 1
 CNC-KOL/TER3: ** MULTIPLE CONTINGENCY **                359.3   358.3   371.0   371.0    97.8    97.5     0.3
             : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
             : 60202 COON CK3 - 60251 TERMINL3 CKT: 1

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 412) 60153 MNTCELO7 - 60166 SALIDA 7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
 BEN-GRC/SCL7: ** MULTIPLE CONTINGENCY **                145.7   144.8   140.0   140.0   104.9   104.1     0.8
             : 60143 BENTON 7 - 60146 GRANCTY7 CKT: 1
             : 60143 BENTON 7 - 60348 BENCTP7  CKT: 1
             : 60348 BENCTP7  - 60157 STCLOUD7 CKT: 1

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 413) 60154 SAUK RV7 - 60157 STCLOUD7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
 BEN-GRC/SCL7: ** MULTIPLE CONTINGENCY **                130.4   129.9   139.0   139.0   113.5   112.6     0.9
             : 60143 BENTON 7 - 60146 GRANCTY7 CKT: 1
             : 60143 BENTON 7 - 60348 BENCTP7  CKT: 1
             : 60348 BENCTP7  - 60157 STCLOUD7 CKT: 1

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 414) 60157 STCLOUD7 - 60159 STCTPW 7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
 BEN-GRC/SCL7: ** MULTIPLE CONTINGENCY **                 94.6    94.1   113.0   113.0    95.2    94.4     0.8
             : 60143 BENTON 7 - 60146 GRANCTY7 CKT: 1
             : 60143 BENTON 7 - 60348 BENCTP7  CKT: 1
             : 60348 BENCTP7  - 60157 STCLOUD7 CKT: 1

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 415) 60158 STCLTP 7 - 60166 SALIDA 7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
 BEN-GRC/SCL7: ** MULTIPLE CONTINGENCY **                125.4   124.7   139.0   139.0    99.8    99.0     0.8
             : 60143 BENTON 7 - 60146 GRANCTY7 CKT: 1
             : 60143 BENTON 7 - 60348 BENCTP7  CKT: 1
             : 60348 BENCTP7  - 60157 STCLOUD7 CKT: 1

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 416) 60163 WST CLD7 - 60165 MEI INT7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
 BEN-GRC/SCL7: ** MULTIPLE CONTINGENCY **                183.0   182.1   191.0   191.0   118.8   117.7     1.1
             : 60143 BENTON 7 - 60146 GRANCTY7 CKT: 1
             : 60143 BENTON 7 - 60348 BENCTP7  CKT: 1
             : 60348 BENCTP7  - 60157 STCLOUD7 CKT: 1
```

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==================================================================================================================
 417) 60163 WST CLD7 - 62819 FSCHRHL7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  BEN-GRC/SCL7: ** MULTIPLE CONTINGENCY **                 88.7    88.2    98.0    98.0   110.3   109.2     1.1
              : 60143 BENTON 7 - 60146 GRANCTY7 CKT: 1
              : 60143 BENTON 7 - 60348 BENCTP7  CKT: 1
              : 60348 BENCTP7  - 60157 STCLOUD7 CKT: 1

==================================================================================================================
 418) 60164 XRDS   7 - 60165 MEI INT7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  BEN-GRC/SCL7: ** MULTIPLE CONTINGENCY **                164.4   163.5   191.0   191.0   107.4   106.5     0.9
              : 60143 BENTON 7 - 60146 GRANCTY7 CKT: 1
              : 60143 BENTON 7 - 60348 BENCTP7  CKT: 1
              : 60348 BENCTP7  - 60157 STCLOUD7 CKT: 1

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 419) 61650 LITTLEF7 - 62819 FSCHRHL7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  BEN-GRC/SCL7: ** MULTIPLE CONTINGENCY **                 93.8    93.2    98.0    98.0   114.0   112.9     1.1
              : 60143 BENTON 7 - 60146 GRANCTY7 CKT: 1
              : 60143 BENTON 7 - 60348 BENCTP7  CKT: 1
              : 60348 BENCTP7  - 60157 STCLOUD7 CKT: 1

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 420)     0 ICH7115. -     0          CKT:             PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  PKL-CDR/BCR7: ** MULTIPLE CONTINGENCY **                  0.0     0.0     0.0     0.0     0.0     0.0     0.0
              : 60234 PARKERS7 - 60346 CEDARLK7 CKT: P
              : 60234 PARKERS7 - 60259 BASCRK 7 CKT: 1
  MEL-BCR/PKL7: ** MULTIPLE CONTINGENCY **                  0.0     0.0     0.0     0.0     0.0     0.0     0.0
              : 60227 MEDLAKE7 - 60259 BASCRK 7 CKT: 1
              : 60234 PARKERS7 - 60346 CEDARLK7 CKT: P
              : 60249 STLSPRK7 - 60346 CEDARLK7 CKT: P
  MEL-BCR/CDR7: ** MULTIPLE CONTINGENCY **                  0.0     0.0     0.0     0.0     0.0     0.0     0.0
              : 60227 MEDLAKE7 - 60259 BASCRK 7 CKT: 1
              : 60234 PARKERS7 - 60346 CEDARLK7 CKT: P

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 421) 60202 COON CK3 - 61487 CNCMID2Y CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  009   2     : ** MULTIPLE CONTINGENCY **               624.3   622.8   672.0   672.0    92.9    92.7     0.2
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
              : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1
              : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
              : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
              : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
              : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1

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 422) 60203 COON CK7 - 61487 CNCMID2Y CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  009   2     : ** MULTIPLE CONTINGENCY **               624.3   622.8   672.0   672.0    92.9    92.7     0.2
              : 60160 SHERCO 3 - 60272 MPLEGV23 CKT: 1
              : 60272 MPLEGV23 - 60202 COON CK3 CKT: 1
              : 60151 MNTCELO3 - 60114 ELM CRK3 CKT: 1
              : 60114 ELM CRK3 - 60233 PARKERS3 CKT: 1
              : 60202 COON CK3 - 61488 CNCMID1Y CKT: 1
              : 61488 CNCMID1Y - 60203 COON CK7 CKT: 1
              : 61488 CNCMID1Y - 60656 CNCTER19 CKT: 1

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 423) 60251 TERMINL3 - 61491 TERMID2Y CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  022       4 : ** MULTIPLE CONTINGENCY **               659.4   657.9   672.0   672.0    98.1    97.9     0.2
              : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
              : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
              : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
              : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
              : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
              : 61492 TERMID1Y - 61187 TERTER19 CKT: 1

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 424) 60252 TERMINL7 - 61491 TERMID2Y CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  022       4 : ** MULTIPLE CONTINGENCY **               659.4   657.9   672.0   672.0    98.1    97.9     0.2
              : 60202 COON CK3 - 60221 KOLMNLK3 CKT: 1
              : 60221 KOLMNLK3 - 60251 TERMINL3 CKT: 1
              : 60221 KOLMNLK3 - 60222 KOLMNLK7 CKT: 1
              : 60251 TERMINL3 - 61492 TERMID1Y CKT: 1
              : 61492 TERMID1Y - 60252 TERMINL7 CKT: 1
              : 61492 TERMID1Y - 61187 TERTER19 CKT: 1

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 425) 60124 LINCNCO7 - 60836 LINCLNC8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  525       1 : ** MULTIPLE CONTINGENCY **               115.6   115.6    70.0    70.0   165.2   165.2     0.0
              : 60117 CHERRYC7 - 60132 WSX FLS7 CKT: 1
              : 60129 SPLT RK7 - 60132 WSX FLS7 CKT: 1

=================================================================================================================
 426) 60132 WSX FLS7 - 60850 WSX FLS8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  525       1 : ** MULTIPLE CONTINGENCY **                72.7    72.7    70.0    70.0   103.8   103.8     0.0
              : 60117 CHERRYC7 - 60132 WSX FLS7 CKT: 1
              : 60129 SPLT RK7 - 60132 WSX FLS7 CKT: 1

=================================================================================================================
 427) 60836 LINCLNC8 - 60837 LINCTAP8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  525       1 : ** MULTIPLE CONTINGENCY **               108.1   108.1    84.0    84.0   129.1   129.2    -0.1
              : 60117 CHERRYC7 - 60132 WSX FLS7 CKT: 1
              : 60129 SPLT RK7 - 60132 WSX FLS7 CKT: 1

=================================================================================================================
 428) 60837 LINCTAP8 - 60849 SSX FLS8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  525       1 : ** MULTIPLE CONTINGENCY **               107.0   107.0    68.0    68.0   159.5   159.7    -0.2
              : 60117 CHERRYC7 - 60132 WSX FLS7 CKT: 1
              : 60129 SPLT RK7 - 60132 WSX FLS7 CKT: 1

=================================================================================================================
 429) 60849 SSX FLS8 - 60850 WSX FLS8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  525       1 : ** MULTIPLE CONTINGENCY **                72.6    72.6    68.0    68.0   110.7   110.8    -0.1
              : 60117 CHERRYC7 - 60132 WSX FLS7 CKT: 1
              : 60129 SPLT RK7 - 60132 WSX FLS7 CKT: 1

=================================================================================================================
 430) 34427 BIGSPRT8 - 34894 NATIONT8 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------------
  885         : ** MULTIPLE CONTINGENCY **                69.6    69.4    69.0    69.0   101.9   101.6     0.3
              : 69507 SENECA 5 - 69511 BELLCTR5 CKT: 1
              : 69507 SENECA 5 - 69523 GENOA  5 CKT: 1
```

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==================================================================================================================
 431) 34894 NATIONT8 - 69307 FARMBURG CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  885         : ** MULTIPLE CONTINGENCY **                70.0    69.8    69.0    69.0   102.0   101.6     0.4
              : 69507 SENECA 5 - 69511 BELLCTR5 CKT: 1
              : 69507 SENECA 5 - 69523 GENOA  5 CKT: 1

==================================================================================================================
 432) 60945 NSPGENO8 - 68807 T RM     CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  885         : ** MULTIPLE CONTINGENCY **                46.4    46.4    47.0    47.0    96.1    96.0     0.1
              : 69507 SENECA 5 - 69511 BELLCTR5 CKT: 1
              : 69507 SENECA 5 - 69523 GENOA  5 CKT: 1

==================================================================================================================
 433) 63238 WINGER 7 - 63239 BAGLEY 7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2194 : 63345 WILTON 4 - 66758 WINGER 4 CKT: 1    97.7    97.5    96.0    96.0    98.5    98.3     0.2
  SINGLE 2059 : 63186 WILTON Y - 63345 WILTON 4 CKT: 1    98.1    98.0    96.0    96.0    98.3    98.1     0.2
  SINGLE 2058 : 63186 WILTON Y - 63245 WILTON 7 CKT: 1    98.1    98.0    96.0    96.0    98.3    98.1     0.2

==================================================================================================================
 434) 34099 PRAR CK7 - 34098 PR CRK4G CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 2774 : 34091 ARNOLD 5 - 34090 ARNOLD1G CKT: 1   160.9   160.5   168.0   168.0    95.8    95.5     0.3
  050    1    : ** MULTIPLE CONTINGENCY **               156.0   154.9   168.0   168.0    92.8    92.2     0.6
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
  050    3    : ** MULTIPLE CONTINGENCY **               155.4   154.7   168.0   168.0    92.5    92.1     0.4
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
  SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1   153.3   152.8   168.0   168.0    91.2    91.0     0.2

==================================================================================================================
 435) 60186 AS KING3 - 60304 EAU CL 3 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1   998.7   974.9  1165.0  1165.0    91.0    90.8     0.2
  PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **               993.0   992.1  1165.0  1165.0    90.5    90.6    -0.1
              : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
              : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2

==================================================================================================================
 436) 61948 BYRON  5 - 61964 OWATNNA5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **               321.6   320.6   273.0   273.0   123.4   123.1     0.3
              : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
              : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
  SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1   320.8   309.8   273.0   273.0   123.2   122.4     0.8

==================================================================================================================
 437) 61952 S FARIB5 - 61964 OWATNNA5 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
------------------------------------------------------------------------------------------------------------------
  PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **               279.0   278.4   269.0   269.0   108.0   107.8     0.2
              : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
              : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
  SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1   278.3   275.1   269.0   269.0   107.8   108.4    -0.6

==================================================================================================================
 438) 34018 HAZLTON3 - 60102 ADAMS  3 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
```

```
-----------------------------------------------------------------------------------------------------------
  050    1    : ** MULTIPLE CONTINGENCY **                671.6   668.6   717.0   717.0    99.3    98.7     0.6
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
  050    3    : ** MULTIPLE CONTINGENCY **                667.8   663.1   717.0   717.0    97.6    96.7     0.9
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
  SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1   650.9   647.4   717.0   717.0    95.2    94.5     0.7
  ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                639.5   637.0   717.0   717.0    94.2    93.7     0.5
              : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1

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 439) 60186 AS KING3 - 60187 AS KING7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------
  ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                411.1   410.6   448.0   448.0    91.8    91.7     0.1
              : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1

===========================================================================================================
 440) 63186 WILTON Y - 63245 WILTON 7 CKT:  1  **NEW** PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------
  SINGLE 2120 : 63238 WINGER 7 - 63239 BAGLEY 7 CKT: 1   128.3   .....   140.0   .....    91.6   .....   *NEW*

===========================================================================================================
 441) 63186 WILTON Y - 63345 WILTON 4 CKT:  1  **NEW** PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------
  SINGLE 2120 : 63238 WINGER 7 - 63239 BAGLEY 7 CKT: 1   128.3   .....   140.0   .....    91.6   .....   *NEW*

===========================================================================================================
 442) 60320 HYDROLN5 - 60321 HYDROLN7 CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------
  050    3    : ** MULTIPLE CONTINGENCY **                203.0   200.6   187.0   187.0   108.6   107.3     1.3
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
  SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1   190.6   189.0   187.0   187.0   101.9   101.1     0.8

===========================================================================================================
 443) 60315 T-CRNRS7 - 39706 WIEN     CKT:  1          PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------
  050    3    : ** MULTIPLE CONTINGENCY **                239.5   238.0   239.0   239.0    95.5    94.5     1.0
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1

===========================================================================================================
 444) 60315 T-CRNRS7 - 60666 T CORNE8 CKT:  1  **NEW** PSTCNT2 PSTCNT1 RATING2 RATING1 PERCNT2 PERCNT1 %CHG2-1
-----------------------------------------------------------------------------------------------------------
  050    3    : ** MULTIPLE CONTINGENCY **                 57.4   .....    62.5   .....    91.9   .....   *NEW*
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1

**** LOADING LIMITERS ELIMINATED IN ACCC #2 FILE ****

**** -- LOW-- VOLTAGE LIMITER CHANGES *****
```

```
==================================================================================================
 445) 34253 GARDNCY8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 30   : 34009 WINBAGO5 - 34257 WBGOJ N8 CKT: 1              0.8992  0.9012 -0.0020

==================================================================================================
 446) 34254 FARMLND8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 30   : 34009 WINBAGO5 - 34257 WBGOJ N8 CKT: 1              0.9001  0.9021 -0.0020

==================================================================================================
 447) 34255 VERNNCY8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 30   : 34009 WINBAGO5 - 34257 WBGOJ N8 CKT: 1              0.9010  0.9030 -0.0020

==================================================================================================
 448) 34256 WBGO   8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 30   : 34009 WINBAGO5 - 34257 WBGOJ N8 CKT: 1              0.9116  0.9135 -0.0019

==================================================================================================
 449) 34257 WBGOJ N8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 30   : 34009 WINBAGO5 - 34257 WBGOJ N8 CKT: 1              0.9147  0.9166 -0.0019

==================================================================================================
 450) 34266 AMBOY  8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 30   : 34009 WINBAGO5 - 34257 WBGOJ N8 CKT: 1              0.9035  0.9055 -0.0020

==================================================================================================
 451) 34277 STRLNGT8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 30   : 34009 WINBAGO5 - 34257 WBGOJ N8 CKT: 1              0.9019  0.9039 -0.0020

==================================================================================================
 452) 34278 WILWCKT8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 30   : 34009 WINBAGO5 - 34257 WBGOJ N8 CKT: 1              0.9038  0.9058 -0.0020

==================================================================================================
 453) 62326 WLL CRK8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 30   : 34009 WINBAGO5 - 34257 WBGOJ N8 CKT: 1              0.9023  0.9043 -0.0020

==================================================================================================
 454) 62327 STERLNG8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 30   : 34009 WINBAGO5 - 34257 WBGOJ N8 CKT: 1              0.9010  0.9030 -0.0020

==================================================================================================
 455) 62328 GARDENC8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 30   : 34009 WINBAGO5 - 34257 WBGOJ N8 CKT: 1              0.8988  0.9008 -0.0020

==================================================================================================
 456) 60780 CLRKGNS8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                          0.8706  0.8731 -0.0025
              : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
              : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
  SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1              0.8717  0.8649  0.0068
```

```
 SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1          0.8798  0.8819 -0.0021
 SINGLE 464  : 34291 ALEA  E8 - 34293 HAYWD#18 CKT: 1          0.8946  0.8959 -0.0013
 SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1          0.8997  0.9024 -0.0027
 SINGLE 37   : 34010 HAYWARD5 - 34294 HAYWD#28 CKT: 1          0.9010  0.9028 -0.0018
 SINGLE 463  : 34290 FARMSTD8 - 34291 ALEA  E8 CKT: 1          0.9027  0.9037 -0.0010
 SINGLE 459  : 34287 SBRDWAY8 - 34290 FARMSTD8 CKT: 1          0.9098  0.9111 -0.0013
 SINGLE 36   : 34010 HAYWARD5 - 34293 HAYWD#18 CKT: 1          0.9100  0.9111 -0.0011
 SINGLE 2894 : 60102 ADAMS  3 - 63032 PL VLLY3 CKT: 1          0.9125  0.9143 -0.0018
 SINGLE 468  : 34294 HAYWD#28 - 69054 SOUTH SH CKT: 1          0.9127  0.9139 -0.0012
 SINGLE 465  : 34292 ALEA19 8 - 69054 SOUTH SH CKT: 1          0.9134  0.9147 -0.0013
 050    2    : ** MULTIPLE CONTINGENCY **                      0.9147  0.9160 -0.0013
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
 ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                      0.9152  0.9170 -0.0018
             : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
 SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1          0.9152  0.9171 -0.0019
 050    1    : ** MULTIPLE CONTINGENCY **                      0.9162  0.9187 -0.0025
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
 SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1          0.9189   .....   *NEW*
 SINGLE 35   : 34010 HAYWARD5 - 34015 LIME CK5 CKT: 1          0.9191   .....   *NEW*

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 457) 62880 MATAWAN8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                      0.8632  0.8658 -0.0026
             : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
             : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
 SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1          0.8643  0.8575  0.0068
 SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1          0.8725  0.8747 -0.0022
 SINGLE 464  : 34291 ALEA  E8 - 34293 HAYWD#18 CKT: 1          0.8875  0.8888 -0.0013
 SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1          0.8926  0.8953 -0.0027
 SINGLE 37   : 34010 HAYWARD5 - 34294 HAYWD#28 CKT: 1          0.8939  0.8958 -0.0019
 SINGLE 463  : 34290 FARMSTD8 - 34291 ALEA  E8 CKT: 1          0.8956  0.8966 -0.0010
 SINGLE 459  : 34287 SBRDWAY8 - 34290 FARMSTD8 CKT: 1          0.9028  0.9042 -0.0014
 SINGLE 36   : 34010 HAYWARD5 - 34293 HAYWD#18 CKT: 1          0.9030  0.9041 -0.0011
 SINGLE 2894 : 60102 ADAMS  3 - 63032 PL VLLY3 CKT: 1          0.9056  0.9074 -0.0018
 SINGLE 468  : 34294 HAYWD#28 - 69054 SOUTH SH CKT: 1          0.9057  0.9070 -0.0013
 SINGLE 465  : 34292 ALEA19 8 - 69054 SOUTH SH CKT: 1          0.9064  0.9078 -0.0014
 050    2    : ** MULTIPLE CONTINGENCY **                      0.9077  0.9091 -0.0014
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
 SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1          0.9082  0.9102 -0.0020
 ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                      0.9083  0.9101 -0.0018
             : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
 050    1    : ** MULTIPLE CONTINGENCY **                      0.9093  0.9118 -0.0025
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
 SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1          0.9120  0.9140 -0.0020
 SINGLE 35   : 34010 HAYWARD5 - 34015 LIME CK5 CKT: 1          0.9122  0.9144 -0.0022
 SINGLE 456  : 34286 ALEAWST8 - 34287 SBRDWAY8 CKT: 1          0.9136  0.9145 -0.0009
```

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 SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1          0.9161   .....   *NEW*
 SINGLE 31   : 34010 HAYWARD5 - 34013 WNBAGOS5 CKT: 1          0.9171   .....  *ELIM*

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 458) 62881 ST OLAF8                                          PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
 PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                      0.8681  0.8707 -0.0026
             : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
             : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
 SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1          0.8692  0.8625  0.0067
 SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1          0.8774  0.8795 -0.0021
 SINGLE 464  : 34291 ALEA  E8 - 34293 HAYWD#18 CKT: 1          0.8922  0.8935 -0.0013
 SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1          0.8974  0.9001 -0.0027
 SINGLE 37   : 34010 HAYWARD5 - 34294 HAYWD#28 CKT: 1          0.8986  0.9005 -0.0019
 SINGLE 463  : 34290 FARMSTD8 - 34291 ALEA  E8 CKT: 1          0.9004  0.9013 -0.0009
 SINGLE 459  : 34287 SBRDWAY8 - 34290 FARMSTD8 CKT: 1          0.9075  0.9088 -0.0013
 SINGLE 36   : 34010 HAYWARD5 - 34293 HAYWD#18 CKT: 1          0.9077  0.9088 -0.0011
 SINGLE 2894 : 60102 ADAMS  3 - 63032 PL VLLY3 CKT: 1          0.9102  0.9121 -0.0019
 SINGLE 468  : 34294 HAYWD#28 - 69054 SOUTH SH CKT: 1          0.9104  0.9116 -0.0012
 SINGLE 465  : 34292 ALEA19 8 - 69054 SOUTH SH CKT: 1          0.9111  0.9124 -0.0013
 050    2    : ** MULTIPLE CONTINGENCY **                      0.9124  0.9137 -0.0013
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
 ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                      0.9129  0.9148 -0.0019
             : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
 SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1          0.9129  0.9149 -0.0020
 050    1    : ** MULTIPLE CONTINGENCY **                      0.9140  0.9164 -0.0024
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
 SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1          0.9167  0.9187 -0.0020
 SINGLE 35   : 34010 HAYWARD5 - 34015 LIME CK5 CKT: 1          0.9168  0.9190 -0.0022
 SINGLE 456  : 34286 ALEAWST8 - 34287 SBRDWAY8 CKT: 1          0.9183  0.9192 -0.0009

==================================================================================================
 459) 34286 ALEAWST8                                          PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
 PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                      0.8808  0.8833 -0.0025
             : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
             : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
 SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1          0.8819  0.8752  0.0067
 SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1          0.8899  0.8920 -0.0021
 SINGLE 464  : 34291 ALEA  E8 - 34293 HAYWD#18 CKT: 1          0.9045  0.9057 -0.0012
 SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1          0.9095  0.9121 -0.0026
 SINGLE 37   : 34010 HAYWARD5 - 34294 HAYWD#28 CKT: 1          0.9108  0.9126 -0.0018
 SINGLE 463  : 34290 FARMSTD8 - 34291 ALEA  E8 CKT: 1          0.9125  0.9134 -0.0009
 SINGLE 459  : 34287 SBRDWAY8 - 34290 FARMSTD8 CKT: 1          0.9195   .....   *NEW*
 SINGLE 36   : 34010 HAYWARD5 - 34293 HAYWD#18 CKT: 1          0.9196   .....   *NEW*

==================================================================================================
 460) 34287 SBRDWAY8                                          PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
 PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                      0.8826  0.8851 -0.0025
             : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
             : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
 SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1          0.8837  0.8779  0.0058
 SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1          0.8915  0.8935 -0.0020
 SINGLE 464  : 34291 ALEA  E8 - 34293 HAYWD#18 CKT: 1          0.8999  0.9012 -0.0013
```

```
 SINGLE 463  : 34290 FARMSTD8 - 34291 ALEA  E8 CKT: 1          0.9091  0.9101 -0.0010
 SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1          0.9115  0.9141 -0.0026
 SINGLE 36   : 34010 HAYWARD5 - 34293 HAYWD#18 CKT: 1          0.9172  0.9183 -0.0011
 SINGLE 459  : 34287 SBRDWAY8 - 34290 FARMSTD8 CKT: 1          0.9175  0.9187 -0.0012
 SINGLE 37   : 34010 HAYWARD5 - 34294 HAYWD#28 CKT: 1          0.9182  0.9200 -0.0018

==============================================================================================
 461) 34288 ALEA NW8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                      0.8766  0.8792 -0.0026
             : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
             : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
 SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1          0.8777  0.8710  0.0067
 SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1          0.8858  0.8879 -0.0021
 SINGLE 464  : 34291 ALEA  E8 - 34293 HAYWD#18 CKT: 1          0.9004  0.9017 -0.0013
 SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1          0.9055  0.9082 -0.0027
 SINGLE 37   : 34010 HAYWARD5 - 34294 HAYWD#28 CKT: 1          0.9068  0.9086 -0.0018
 SINGLE 463  : 34290 FARMSTD8 - 34291 ALEA  E8 CKT: 1          0.9085  0.9094 -0.0009
 SINGLE 459  : 34287 SBRDWAY8 - 34290 FARMSTD8 CKT: 1          0.9156  0.9168 -0.0012
 SINGLE 36   : 34010 HAYWARD5 - 34293 HAYWD#18 CKT: 1          0.9157  0.9168 -0.0011
 SINGLE 2894 : 60102 ADAMS  3 - 63032 PL VLLY3 CKT: 1          0.9182   .....   *NEW*
 SINGLE 468  : 34294 HAYWD#28 - 69054 SOUTH SH CKT: 1          0.9184  0.9196 -0.0012
 SINGLE 465  : 34292 ALEA19 8 - 69054 SOUTH SH CKT: 1          0.9191   .....   *NEW*

==============================================================================================
 462) 34290 FARMSTD8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                      0.8835  0.8860 -0.0025
             : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
             : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
 SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1          0.8846  0.8790  0.0056
 SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1          0.8923  0.8943 -0.0020
 SINGLE 464  : 34291 ALEA  E8 - 34293 HAYWD#18 CKT: 1          0.8995  0.9008 -0.0013
 SINGLE 463  : 34290 FARMSTD8 - 34291 ALEA  E8 CKT: 1          0.9089  0.9098 -0.0009
 SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1          0.9123  0.9150 -0.0027
 SINGLE 36   : 34010 HAYWARD5 - 34293 HAYWD#18 CKT: 1          0.9173  0.9183 -0.0010
 SINGLE 37   : 34010 HAYWARD5 - 34294 HAYWD#28 CKT: 1          0.9199   .....   *NEW*

==============================================================================================
 463) 34291 ALEA  E8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                      0.8861  0.8885 -0.0024
             : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
             : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
 SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1          0.8872  0.8819  0.0053
 SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1          0.8946  0.8966 -0.0020
 SINGLE 464  : 34291 ALEA  E8 - 34293 HAYWD#18 CKT: 1          0.8991  0.9004 -0.0013
 SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1          0.9149  0.9175 -0.0026
 SINGLE 36   : 34010 HAYWARD5 - 34293 HAYWD#18 CKT: 1          0.9179  0.9190 -0.0011

==============================================================================================
 464) 34305 GLENVIL8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                      0.8953  0.8977 -0.0024
             : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
             : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
 SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1          0.8964  0.8927  0.0037
 SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1          0.9032  0.9051 -0.0019
 SINGLE 36   : 34010 HAYWARD5 - 34293 HAYWD#18 CKT: 1          0.9198   .....   *NEW*

==============================================================================================
 465) 34375 NORWOOD8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
```

```
 PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                        0.8921  0.8945 -0.0024
             : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
             : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
 SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1          0.8932  0.8894  0.0038
 SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1          0.9000  0.9019 -0.0019
 SINGLE 36   : 34010 HAYWARD5 - 34293 HAYWD#18 CKT: 1          0.9167  0.9178 -0.0011

==============================================================================================
 466) 69199 BANCROFT                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                        0.8758  0.8783 -0.0025
             : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
             : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
 SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1          0.8769  0.8702  0.0067
 SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1          0.8849  0.8870 -0.0021
 SINGLE 464  : 34291 ALEA  E8 - 34293 HAYWD#18 CKT: 1          0.8996  0.9009 -0.0013
 SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1          0.9047  0.9073 -0.0026
 SINGLE 37   : 34010 HAYWARD5 - 34294 HAYWD#28 CKT: 1          0.9059  0.9078 -0.0019
 SINGLE 463  : 34290 FARMSTD8 - 34291 ALEA  E8 CKT: 1          0.9077  0.9086 -0.0009
 SINGLE 459  : 34287 SBRDWAY8 - 34290 FARMSTD8 CKT: 1          0.9147  0.9160 -0.0013
 SINGLE 36   : 34010 HAYWARD5 - 34293 HAYWD#18 CKT: 1          0.9149  0.9160 -0.0011
 SINGLE 2894 : 60102 ADAMS  3 - 63032 PL VLLY3 CKT: 1          0.9174  0.9192 -0.0018
 SINGLE 468  : 34294 HAYWD#28 - 69054 SOUTH SH CKT: 1          0.9176  0.9188 -0.0012
 SINGLE 465  : 34292 ALEA19 8 - 69054 SOUTH SH CKT: 1          0.9183  0.9196 -0.0013
 050    2    : ** MULTIPLE CONTINGENCY **                       0.9196   .....   *NEW*
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1

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 467) 34289 FAIRGNT8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 SINGLE 37   : 34010 HAYWARD5 - 34294 HAYWD#28 CKT: 1          0.8863  0.8882 -0.0019
 PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                        0.8865  0.8889 -0.0024
             : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
             : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
 SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1          0.8877  0.8853  0.0024
 SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1          0.8937  0.8955 -0.0018
 SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1          0.9163  0.9189 -0.0026

==============================================================================================
 468) 34292 ALEA19 8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                        0.8833  0.8857 -0.0024
             : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
             : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
 SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1          0.8844  0.8794  0.0050
 SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1          0.8916  0.8936 -0.0020
 SINGLE 37   : 34010 HAYWARD5 - 34294 HAYWD#28 CKT: 1          0.9005  0.9023 -0.0018
 SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1          0.9124  0.9150 -0.0026
 SINGLE 464  : 34291 ALEA  E8 - 34293 HAYWD#18 CKT: 1          0.9155  0.9168 -0.0013
 SINGLE 468  : 34294 HAYWD#28 - 69054 SOUTH SH CKT: 1          0.9162  0.9174 -0.0012
 SINGLE 465  : 34292 ALEA19 8 - 69054 SOUTH SH CKT: 1          0.9172  0.9185 -0.0013

==============================================================================================
 469) 34294 HAYWD#28                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 SINGLE 37   : 34010 HAYWARD5 - 34294 HAYWD#28 CKT: 1          0.8960  0.8979 -0.0019
 PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                        0.8962  0.8986 -0.0024
             : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
             : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
 SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1          0.8974  0.8950  0.0024
 SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1          0.9033  0.9051 -0.0018
```

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==========================================================================================
 470) 34295 CO LINE8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 37   : 34010 HAYWARD5 - 34294 HAYWD#28 CKT: 1               0.8887  0.8907 -0.0020
  PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                           0.8889  0.8913 -0.0024
              : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
              : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
  SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1               0.8901  0.8877  0.0024
  SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1               0.8961  0.8979 -0.0018
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1               0.9187   .....   *NEW*

==========================================================================================
 471) 69054 SOUTH SH                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                           0.8884  0.8909 -0.0025
              : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
              : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
  SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1               0.8896  0.8857  0.0039
  SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1               0.8963  0.8982 -0.0019
  SINGLE 37   : 34010 HAYWARD5 - 34294 HAYWD#28 CKT: 1               0.8985  0.9004 -0.0019
  SINGLE 468  : 34294 HAYWD#28 - 69054 SOUTH SH CKT: 1               0.9161  0.9173 -0.0012
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1               0.9177   .....   *NEW*

==========================================================================================
 472) 64256 UNIONTP5                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1               0.9136  0.9169 -0.0033
  825         : ** MULTIPLE CONTINGENCY **                           0.9164  0.9196 -0.0032
              : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
              : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
              : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1
  050    1    : ** MULTIPLE CONTINGENCY **                           0.9198   .....   *NEW*
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1

==========================================================================================
 473) 64285 BUTLER 5  **NEW**                                       PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 56   : 34018 HAZLTON3 - 60102 ADAMS  3 CKT: 1               0.9171   .....   *NEW*
  825         : ** MULTIPLE CONTINGENCY **                           0.9192   .....   *NEW*
              : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
              : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
              : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1

==========================================================================================
 474) 34418 WAUKNIP8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 64   : 34023 LANSING8 - 34419 VALLEY 8 CKT: 1               0.9180  0.9189 -0.0009

==========================================================================================
 475) 34419 VALLEY 8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 64   : 34023 LANSING8 - 34419 VALLEY 8 CKT: 1               0.9083  0.9093 -0.0010

==========================================================================================
 476) 68818 WAUKON                                                  PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 64   : 34023 LANSING8 - 34419 VALLEY 8 CKT: 1               0.9131  0.9141 -0.0010
```

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==========================================================================================
 477) 69148 LUDLOW                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 64   : 34023 LANSING8 - 34419 VALLEY 8 CKT: 1            0.9190  0.9199 -0.0009

==========================================================================================
 478) 34029 SALEM  3                                              PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 75   : 34029 SALEM  3 - 34036 ROCK CK3 CKT: 1            0.8529  0.8529  0.0000
  SINGLE 2730 : 34036 ROCK CK3 - 36382 QUAD ;   CKT: 1            0.8891  0.8889  0.0002

==========================================================================================
 479) 34035 ROCKCKW5                                              PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 2730 : 34036 ROCK CK3 - 36382 QUAD ;   CKT: 1            0.9052  0.9049  0.0003
  SINGLE 82   : 34035 ROCKCKW5 - 34037 ROCK CK5 CKT: 1            0.9105  0.9105  0.0000
  SINGLE 86   : 34036 ROCK CK3 - 34037 ROCK CK5 CKT: 1            0.9156  0.9154  0.0002

==========================================================================================
 480) 34037 ROCK CK5                                              PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 2730 : 34036 ROCK CK3 - 36382 QUAD ;   CKT: 1            0.9052  0.9049  0.0003
  SINGLE 86   : 34036 ROCK CK3 - 34037 ROCK CK5 CKT: 1            0.9156  0.9154  0.0002

==========================================================================================
 481) 34051 TOLEDO 7                                              PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 114  : 34051 TOLEDO 7 - 34066 M-TOWN 7 CKT: 1            0.8920  0.8924 -0.0004

==========================================================================================
 482) 34062 BNE JCT8                                              PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 136  : 34061 BNE JCT5 - 34062 BNE JCT8 CKT: 1            0.9183  0.9188 -0.0005

==========================================================================================
 483) 34074 WELSBRG7                                              PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 158  : 34074 WELSBRG7 - 34169 WELSBGT7 CKT: 1            0.8985  0.9005 -0.0020

==========================================================================================
 484) 34530 WELSBRGY                                              PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 158  : 34074 WELSBRG7 - 34169 WELSBGT7 CKT: 1            0.8985  0.9005 -0.0020
  SINGLE 159  : 34074 WELSBRG7 - 34530 WELSBRGY CKT: 1            0.8985  0.9005 -0.0020

==========================================================================================
 485) 34123 GR MND 5                                              PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1            0.6950  0.6951 -0.0001

==========================================================================================
 486) 34125 GR MND 8                                              PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1            0.7950  0.7951 -0.0001
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1            0.7950  0.7951 -0.0001
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1            0.7956  0.7957 -0.0001

==========================================================================================
 487) 34540 GR MND Y                                              PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1            0.6950  0.6951 -0.0001
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1            0.6951  0.6951  0.0000
```

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==========================================================================================
 488) 34705 DONAHUE                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1              0.7955  0.7956 -0.0001
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1              0.7955  0.7956 -0.0001
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1              0.7961  0.7962 -0.0001

==========================================================================================
 489) 34706 PARKVIEW                                               PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1              0.7957  0.7958 -0.0001
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1              0.7957  0.7958 -0.0001
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1              0.7963  0.7964 -0.0001

==========================================================================================
 490) 34707 BUFFALO                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1              0.7958  0.7958  0.0000
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1              0.7958  0.7959 -0.0001
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1              0.7963  0.7964 -0.0001

==========================================================================================
 491) 34815 DIXON JC                                               PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1              0.8704  0.8704  0.0000
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1              0.8704  0.8705 -0.0001
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1              0.8707  0.8708 -0.0001

==========================================================================================
 492) 34816 DIXON                                                  PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1              0.8704  0.8705 -0.0001
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1              0.8704  0.8705 -0.0001
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1              0.8708  0.8708  0.0000

==========================================================================================
 493) 34817 DOME TAP                                               PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1              0.8272  0.8272  0.0000
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1              0.8272  0.8273 -0.0001
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1              0.8277  0.8277  0.0000

==========================================================================================
 494) 34818 DOME                                                   PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1              0.8272  0.8273 -0.0001
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1              0.8272  0.8273 -0.0001
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1              0.8277  0.8277  0.0000

==========================================================================================
 495) 34819 GRMND TW                                               PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1              0.8111  0.8112 -0.0001
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1              0.8112  0.8112  0.0000
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1              0.8117  0.8117  0.0000

==========================================================================================
 496) 34820 GRMND TN                                               PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1              0.7950  0.7951 -0.0001
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1              0.7950  0.7951 -0.0001
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1              0.7956  0.7957 -0.0001
```

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==========================================================================================
 497) 34821 DELMAR R                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1              0.7958  0.7959 -0.0001
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1              0.7958  0.7959 -0.0001
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1              0.7964  0.7964  0.0000

==========================================================================================
 498) 34822 DELMAR J                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1              0.7955  0.7956 -0.0001
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1              0.7956  0.7956  0.0000
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1              0.7961  0.7962 -0.0001

==========================================================================================
 499) 34823 BLIERDOR                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1              0.7955  0.7956 -0.0001
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1              0.7956  0.7956  0.0000
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1              0.7961  0.7962 -0.0001

==========================================================================================
 500) 34824 L NATION                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1              0.7956  0.7957 -0.0001
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1              0.7956  0.7957 -0.0001
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1              0.7962  0.7963 -0.0001

==========================================================================================
 501) 34849 OLIVE TA                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1              0.7952  0.7952  0.0000
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1              0.7952  0.7953 -0.0001
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1              0.7957  0.7958 -0.0001

==========================================================================================
 502) 34850 DEWITT R                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1              0.7959  0.7960 -0.0001
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1              0.7959  0.7960 -0.0001
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1              0.7965  0.7966 -0.0001

==========================================================================================
 503) 34851 MALONE                                                  PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1              0.7963  0.7963  0.0000
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1              0.7963  0.7964 -0.0001
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1              0.7969  0.7969  0.0000

==========================================================================================
 504) 34852 OLIVE                                                   PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1              0.7952  0.7952  0.0000
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1              0.7952  0.7953 -0.0001
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1              0.7958  0.7958  0.0000

==========================================================================================
 505) 34853 MALONE T                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1              0.7962  0.7963 -0.0001
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1              0.7962  0.7963 -0.0001
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1              0.7968  0.7969 -0.0001
```

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==================================================================================================
 506) 34854 ELVIRA                                                   PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1                0.7965  0.7965  0.0000
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1                0.7965  0.7966 -0.0001
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1                0.7970  0.7971 -0.0001

==================================================================================================
 507) 34855 COMANREC                                                 PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 217  : 34122 E CALMS5 - 34123 GR MND 5 CKT: 1                0.7965  0.7966 -0.0001
  SINGLE 221  : 34123 GR MND 5 - 34540 GR MND Y CKT: 1                0.7965  0.7966 -0.0001
  SINGLE 222  : 34125 GR MND 8 - 34540 GR MND Y CKT: 1                0.7971  0.7971  0.0000

==================================================================================================
 508) 34539 E CALMSY                                                 PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 220  : 34122 E CALMS5 - 34539 E CALMSY CKT: 1                0.9160  0.9160  0.0000

==================================================================================================
 509) 34491 PRAIRI_8                                                 PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 249  : 34138 DUNDEE 8 - 34490 MASONVL8 CKT: 1                0.9103  0.9110 -0.0007
  SINGLE 652  : 34490 MASONVL8 - 34491 PRAIRI_8 CKT: 1                0.9118  0.9125 -0.0007
  SINGLE 239  : 34135 DUNDEE 5 - 34543 DUNDEE2Y CKT: 1                0.9197   .....   *NEW*
  SINGLE 251  : 34138 DUNDEE 8 - 34543 DUNDEE2Y CKT: 1                0.9198   .....   *NEW*

==================================================================================================
 510) 34492 MANCIND8                                                 PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 249  : 34138 DUNDEE 8 - 34490 MASONVL8 CKT: 1                0.9108  0.9115 -0.0007
  SINGLE 652  : 34490 MASONVL8 - 34491 PRAIRI_8 CKT: 1                0.9122  0.9129 -0.0007
  SINGLE 239  : 34135 DUNDEE 5 - 34543 DUNDEE2Y CKT: 1                0.9178  0.9185 -0.0007
  SINGLE 251  : 34138 DUNDEE 8 - 34543 DUNDEE2Y CKT: 1                0.9179  0.9186 -0.0007
  SINGLE 653  : 34491 PRAIRI_8 - 34492 MANCIND8 CKT: 1                0.9179  0.9186 -0.0007

==================================================================================================
 511) 34543 DUNDEE2Y                                                 PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 239  : 34135 DUNDEE 5 - 34543 DUNDEE2Y CKT: 1                0.8269  0.8275 -0.0006

==================================================================================================
 512) 34490 MASONVL8                                                 PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 249  : 34138 DUNDEE 8 - 34490 MASONVL8 CKT: 1                0.9101  0.9108 -0.0007

==================================================================================================
 513) 62980 MCLEOD 4                                                 PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1                0.9075  0.9103 -0.0028
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1                0.9095  0.9123 -0.0028
  SINGLE 1001 : 60126 SPLT RK3 - 60130 SPLTRTA3 CKT: 1                0.9185  0.9193 -0.0008
  SINGLE 1008 : 60130 SPLTRTA3 - 66537 WHITE  3 CKT: 1                0.9185  0.9193 -0.0008

==================================================================================================
 514) 61085 BLUEE  8                                                 PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                            0.9092  0.9108 -0.0016
              : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
              : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
  SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1                0.9096  0.9165 -0.0069
  SINGLE 959  : 60108 WILMART3 - 60331 LKFLDXL3 CKT: 1                0.9164  0.9197 -0.0033
  SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1                0.9180  0.9200 -0.0020
```

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==================================================================================================
 515) 61063 RIVER F8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1116 : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1               0.9075  0.9057  0.0018

==================================================================================================
 516) 60250 TANRSLK7                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  RRK-AFT/WDY7: ** MULTIPLE CONTINGENCY **                           0.9182  0.9188 -0.0006
              : 60238 REDROCK7 - 60179 AFTON  7 CKT: 1
              : 60238 REDROCK7 - 60344 WOODBUR7 CKT: 1
  SINGLE 1237 : 60238 REDROCK7 - 60344 WOODBUR7 CKT: 1               0.9192  0.9198 -0.0006

==================================================================================================
 517) 60344 WOODBUR7                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  RRK-AFT/WDY7: ** MULTIPLE CONTINGENCY **                           0.9135  0.9142 -0.0007
              : 60238 REDROCK7 - 60179 AFTON  7 CKT: 1
              : 60238 REDROCK7 - 60344 WOODBUR7 CKT: 1
  SINGLE 1237 : 60238 REDROCK7 - 60344 WOODBUR7 CKT: 1               0.9145  0.9151 -0.0006

==================================================================================================
 518) 60284 WATOWAN7                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1287 : 60284 WATOWAN7 - 60380 MARTINC7 CKT: P               0.8969  0.8972 -0.0003
  SINGLE 1359 : 60331 LKFLDXL3 - 60380 MARTINC7 CKT: P               0.8998  0.9000 -0.0002

==================================================================================================
 519) 60310 MONROCO5                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1325 : 60308 LACROSS5 - 60310 MONROCO5 CKT: 1               0.8900  0.8901 -0.0001

==================================================================================================
 520) 60320 HYDROLN5                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1349 : 60319 WHEATTP5 - 60320 HYDROLN5 CKT: 1               0.9044  0.9044  0.0000
  835         : ** MULTIPLE CONTINGENCY **                           0.9044  0.9044  0.0000
              : 60282 REDCDR 5 - 60319 WHEATTP5 CKT: 1
              : 60319 WHEATTP5 - 60318 WHEATON5 CKT: 1
              : 60319 WHEATTP5 - 60320 HYDROLN5 CKT: 1

==================================================================================================
 521) 60380 MARTINC7                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1359 : 60331 LKFLDXL3 - 60380 MARTINC7 CKT: P               0.9002  0.9004 -0.0002

==================================================================================================
 522) 60744 BROOTEN8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1428 : 60748 WESTPRT8 - 60749 DGLAS C8 CKT: 1               0.8866  0.8895 -0.0029
  SINGLE 1427 : 60747 VILLARD8 - 60748 WESTPRT8 CKT: 1               0.9126  0.9152 -0.0026
  SINGLE 3086 : 60747 VILLARD8 - 62756 LEVEN  8 CKT: 1               0.9185   .....   *NEW*

==================================================================================================
 523) 60745 SEDAN  8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1428 : 60748 WESTPRT8 - 60749 DGLAS C8 CKT: 1               0.8578  0.8611 -0.0033
  SINGLE 1427 : 60747 VILLARD8 - 60748 WESTPRT8 CKT: 1               0.8927  0.8956 -0.0029
  SINGLE 3086 : 60747 VILLARD8 - 62756 LEVEN  8 CKT: 1               0.9000  0.9028 -0.0028

==================================================================================================
 524) 60746 GLENWD 8                                                PSTCNT2 PSTCNT1 PU-CHNG
```

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-----------------------------------------------------------------------------------------------
  SINGLE 1428 : 60748 WESTPRT8 - 60749 DGLAS C8 CKT: 1          0.8297  0.8332 -0.0035
  SINGLE 1427 : 60747 VILLARD8 - 60748 WESTPRT8 CKT: 1          0.8735  0.8766 -0.0031
  SINGLE 3086 : 60747 VILLARD8 - 62756 LEVEN  8 CKT: 1          0.8821  0.8851 -0.0030
  SINGLE 3084 : 60746 GLENWD 8 - 62756 LEVEN  8 CKT: 1          0.9157  0.9190 -0.0033

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 525) 60747 VILLARD8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 1428 : 60748 WESTPRT8 - 60749 DGLAS C8 CKT: 1          0.8228  0.8264 -0.0036
  SINGLE 1427 : 60747 VILLARD8 - 60748 WESTPRT8 CKT: 1          0.8715  0.8746 -0.0031

===============================================================================================
 526) 60767 WLMSTAP8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 1428 : 60748 WESTPRT8 - 60749 DGLAS C8 CKT: 1          0.8750  0.8781 -0.0031
  SINGLE 1427 : 60747 VILLARD8 - 60748 WESTPRT8 CKT: 1          0.9047  0.9074 -0.0027
  SINGLE 3086 : 60747 VILLARD8 - 62756 LEVEN  8 CKT: 1          0.9112  0.9138 -0.0026

===============================================================================================
 527) 60748 WESTPRT8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 1428 : 60748 WESTPRT8 - 60749 DGLAS C8 CKT: 1          0.8200  0.8236 -0.0036

===============================================================================================
 528) 60750 OSAKIS 8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 1429 : 60749 DGLAS C8 - 60750 OSAKIS 8 CKT: 1          0.9046  0.9042  0.0004

===============================================================================================
 529) 60955 SPARTA28                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 1556 : 60949 MONROCO8 - 60955 SPARTA28 CKT: 1          0.9141  0.9142 -0.0001

===============================================================================================
 530) 62425 WILLMAR7                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 1712 : 62005 KERKHOT7 - 62425 WILLMAR7 CKT: C          0.8955  0.8954  0.0001
  690         : ** MULTIPLE CONTINGENCY **                      0.8965  0.8966 -0.0001
              : 62425 WILLMAR7 - 62005 KERKHOT7 CKT: C
              : 60357 MAYNARD7 - 62005 KERKHOT7 CKT: 1
              : 62005 KERKHOT7 - 62006 KERKHO 7 CKT: 1
              : 62006 KERKHO 7 - 62001 BENSON 7 CKT: 1
  690    P1   : ** MULTIPLE CONTINGENCY **                      0.8965  0.8966 -0.0001
              : 62425 WILLMAR7 - 62005 KERKHOT7 CKT: C
              : 60357 MAYNARD7 - 62005 KERKHOT7 CKT: 1
              : 62005 KERKHOT7 - 62006 KERKHO 7 CKT: 1
              : 62006 KERKHO 7 - 62001 BENSON 7 CKT: 1
  SINGLE 2051 : 63050 WILLMAR4 - 66550 GRANITF4 CKT: 1          0.9005  0.9023 -0.0018
  500         : ** MULTIPLE CONTINGENCY **                      0.9112  0.9120 -0.0008
              : 66550 GRANITF4 - 63050 WILLMAR4 CKT: 1
              : 63050 WILLMAR4 - 62427 WILLMAR8 CKT: 1
  SINGLE 1893 : 62427 WILLMAR8 - 63050 WILLMAR4 CKT: 1          0.9164  0.9173 -0.0009

===============================================================================================
 531) 62106 FOREST 8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 1744 : 62108 HUGO   8 - 62128 BLAINE 8 CKT: 1          0.9035  0.9036 -0.0001

===============================================================================================
 532) 62108 HUGO   8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 1744 : 62108 HUGO   8 - 62128 BLAINE 8 CKT: 1          0.8963  0.8965 -0.0002
```

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==================================================================================================
 533) 62111 MARTIN 8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1744 : 62108 HUGO   8 - 62128 BLAINE 8 CKT: 1               0.9087  0.9088 -0.0001

==================================================================================================
 534) 62140 MARTNTP8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1744 : 62108 HUGO   8 - 62128 BLAINE 8 CKT: 1               0.9122  0.9123 -0.0001

==================================================================================================
 535) 61920 PRINPLNT                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1821 : 62273 MILACAD8 - 62301 MILACA 8 CKT: 1               0.8703  0.8704 -0.0001
  SINGLE 1765 : 62124 ZIMERMN8 - 62149 N ER TP8 CKT: 1               0.8819  0.8822 -0.0003
  SINGLE 1794 : 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1               0.8824  0.8827 -0.0003
  SINGLE 1777 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1               0.8827  0.8830 -0.0003

==================================================================================================
 536) 61922 PRINCTAP                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1821 : 62273 MILACAD8 - 62301 MILACA 8 CKT: 1               0.8729  0.8731 -0.0002
  SINGLE 1765 : 62124 ZIMERMN8 - 62149 N ER TP8 CKT: 1               0.8845  0.8849 -0.0004
  SINGLE 1794 : 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1               0.8850  0.8854 -0.0004
  SINGLE 1777 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1               0.8853  0.8856 -0.0003

==================================================================================================
 537) 61924 PRINCETN                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1821 : 62273 MILACAD8 - 62301 MILACA 8 CKT: 1               0.8705  0.8706 -0.0001
  SINGLE 1765 : 62124 ZIMERMN8 - 62149 N ER TP8 CKT: 1               0.8821  0.8824 -0.0003
  SINGLE 1794 : 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1               0.8826  0.8830 -0.0004
  SINGLE 1777 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1               0.8829  0.8832 -0.0003

==================================================================================================
 538) 62099 BALDWIN8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1765 : 62124 ZIMERMN8 - 62149 N ER TP8 CKT: 1               0.8759  0.8762 -0.0003
  SINGLE 1794 : 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1               0.8765  0.8768 -0.0003
  SINGLE 1777 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1               0.8767  0.8771 -0.0004
  SINGLE 1821 : 62273 MILACAD8 - 62301 MILACA 8 CKT: 1               0.8813  0.8814 -0.0001

==================================================================================================
 539) 62124 ZIMERMN8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1765 : 62124 ZIMERMN8 - 62149 N ER TP8 CKT: 1               0.8638  0.8641 -0.0003
  SINGLE 1794 : 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1               0.8644  0.8648 -0.0004
  SINGLE 1777 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1               0.8648  0.8651 -0.0003
  SINGLE 1821 : 62273 MILACAD8 - 62301 MILACA 8 CKT: 1               0.9090  0.9091 -0.0001

==================================================================================================
 540) 62271 LONGSDG8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1821 : 62273 MILACAD8 - 62301 MILACA 8 CKT: 1               0.8555  0.8557 -0.0002
  SINGLE 1765 : 62124 ZIMERMN8 - 62149 N ER TP8 CKT: 1               0.9195  0.9198 -0.0003
  SINGLE 1794 : 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1               0.9199   .....   *NEW*
  SINGLE 1817 : 62271 LONGSDG8 - 62273 MILACAD8 CKT: 1               0.9200   .....   *NEW*

==================================================================================================
 541) 62292 PRINCTN8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1821 : 62273 MILACAD8 - 62301 MILACA 8 CKT: 1               0.8595  0.8597 -0.0002
```

```
 SINGLE 1765 : 62124 ZIMERMN8 - 62149 N ER TP8 CKT: 1          0.9113  0.9116 -0.0003
 SINGLE 1794 : 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1          0.9117  0.9120 -0.0003
 SINGLE 1777 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1          0.9119  0.9122 -0.0003

==============================================================================================
 542) 62100 BIG LAK8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 SINGLE 1776 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.7849  0.7858 -0.0009
 SINGLE 2021 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1          0.8747  0.8756 -0.0009

==============================================================================================
 543) 62119 THOMPLK8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 SINGLE 1776 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.8398  0.8406 -0.0008
 SINGLE 2021 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1          0.9019  0.9028 -0.0009

==============================================================================================
 544) 62122 WESTEND8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 SINGLE 3372 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1          0.9088  0.9094 -0.0006
 680         : ** MULTIPLE CONTINGENCY **                      0.9100  0.9101 -0.0001
             : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
             : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
 SINGLE 1785 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1          0.9175  0.9182 -0.0007
 SINGLE 1776 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.9180  0.9185 -0.0005

==============================================================================================
 545) 62125 BECKER 8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 SINGLE 1776 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.8826  0.8833 -0.0007

==============================================================================================
 546) 62136 REMMELE8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 SINGLE 1776 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.7970  0.7979 -0.0009
 SINGLE 2021 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1          0.8799  0.8808 -0.0009

==============================================================================================
 547) 62137 BCKRNSP8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 SINGLE 1776 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.8710  0.8717 -0.0007
 SINGLE 2021 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1          0.9195   .....   *NEW*

==============================================================================================
 548) 62142 REMMLTP8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 SINGLE 1776 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.7976  0.7984 -0.0008
 SINGLE 2021 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1          0.8804  0.8813 -0.0009

==============================================================================================
 549) 62150 E BL TP8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 SINGLE 1776 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.7790  0.7799 -0.0009
 SINGLE 2021 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1          0.8727  0.8736 -0.0009

==============================================================================================
 550) 62932 GOOSELK8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 SINGLE 1776 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.9134  0.9142 -0.0008

==============================================================================================
 551) 62939 SILVERC8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
```

```
 SINGLE 1776 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.9070  0.9078 -0.0008

==============================================================================================
 552) 62965 ELKRWS18                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 SINGLE 1776 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.7681  0.7690 -0.0009
 SINGLE 2021 : 62965 ELKRWS18 - 62967 ELKRWS28 CKT: 1          0.8689  0.8699 -0.0010

==============================================================================================
 553) 62967 ELKRWS28                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 SINGLE 1776 : 62134 ELKR14S8 - 62967 ELKRWS28 CKT: 1          0.7681  0.7690 -0.0009

==============================================================================================
 554) 62149 N ER TP8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 SINGLE 1794 : 62149 N ER TP8 - 62968 ELKRNTH8 CKT: 1          0.8645  0.8648 -0.0003
 SINGLE 1777 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1          0.8649  0.8652 -0.0003

==============================================================================================
 555) 62968 ELKRNTH8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 SINGLE 1777 : 62134 ELKR14S8 - 62968 ELKRNTH8 CKT: 1          0.8649  0.8652 -0.0003

==============================================================================================
 556) 62102 CABLE  8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 SINGLE 3372 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1          0.8999  0.9005 -0.0006
 680         : ** MULTIPLE CONTINGENCY **                      0.9010  0.9011 -0.0001
             : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
             : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
 SINGLE 1785 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1          0.9113  0.9119 -0.0006

==============================================================================================
 557) 62138 BRGGLKS8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 SINGLE 3372 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1          0.9063  0.9069 -0.0006
 680         : ** MULTIPLE CONTINGENCY **                      0.9075  0.9075  0.0000
             : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
             : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
 SINGLE 1785 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1          0.9158  0.9164 -0.0006

==============================================================================================
 558) 62139 CABLETP8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 SINGLE 3372 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1          0.9017  0.9023 -0.0006
 680         : ** MULTIPLE CONTINGENCY **                      0.9028  0.9029 -0.0001
             : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
             : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
 SINGLE 1785 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1          0.9131  0.9137 -0.0006

==============================================================================================
 559) 62277 DUELM  8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 SINGLE 3372 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1          0.9034  0.9040 -0.0006
 680         : ** MULTIPLE CONTINGENCY **                      0.9046  0.9046  0.0000
             : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
             : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
 SINGLE 1785 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1          0.9129  0.9135 -0.0006

==============================================================================================
 560) 62295 DUELMSW8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
```

```
 SINGLE 3372 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1          0.9040  0.9046 -0.0006
 680         : ** MULTIPLE CONTINGENCY **                      0.9051  0.9052 -0.0001
             : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
             : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
 SINGLE 1785 : 62139 CABLETP8 - 62297 BENTON 8 CKT: 1          0.9135  0.9141 -0.0006

==============================================================================================
 561) 62181 OAKLAWN8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 SINGLE 3370 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.8528  0.8528  0.0000
 SINGLE 1796 : 62180 RIVTON 8 - 62190 OKLWNTP8 CKT: 1          0.8813  0.8809  0.0004

==============================================================================================
 562) 62182 PINECTR8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 SINGLE 3370 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.8699  0.8699  0.0000
 SINGLE 1796 : 62180 RIVTON 8 - 62190 OKLWNTP8 CKT: 1          0.8924  0.8920  0.0004
 SINGLE 1809 : 62190 OKLWNTP8 - 62191 PINCTRT8 CKT: 1          0.9115  0.9119 -0.0004

==============================================================================================
 563) 62190 OKLWNTP8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 SINGLE 3370 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.8529  0.8529  0.0000
 SINGLE 1796 : 62180 RIVTON 8 - 62190 OKLWNTP8 CKT: 1          0.8814  0.8810  0.0004

==============================================================================================
 564) 62191 PINCTRT8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 SINGLE 3370 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.8586  0.8586  0.0000
 SINGLE 1796 : 62180 RIVTON 8 - 62190 OKLWNTP8 CKT: 1          0.8844  0.8840  0.0004
 SINGLE 1809 : 62190 OKLWNTP8 - 62191 PINCTRT8 CKT: 1          0.9070  0.9074 -0.0004

==============================================================================================
 565) 62646 WILSONL8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 SINGLE 3370 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.8566  0.8566  0.0000
 SINGLE 1796 : 62180 RIVTON 8 - 62190 OKLWNTP8 CKT: 1          0.8825  0.8821  0.0004
 SINGLE 1809 : 62190 OKLWNTP8 - 62191 PINCTRT8 CKT: 1          0.9052  0.9055 -0.0003

==============================================================================================
 566) 62650 VINELND8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 SINGLE 3370 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.8841  0.8842 -0.0001
 SINGLE 1796 : 62180 RIVTON 8 - 62190 OKLWNTP8 CKT: 1          0.9031  0.9026  0.0005
 SINGLE 1809 : 62190 OKLWNTP8 - 62191 PINCTRT8 CKT: 1          0.9182  0.9185 -0.0003

==============================================================================================
 567) 62651 VINLDTP8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 SINGLE 3370 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.8699  0.8700 -0.0001
 SINGLE 1796 : 62180 RIVTON 8 - 62190 OKLWNTP8 CKT: 1          0.8925  0.8920  0.0005
 SINGLE 1809 : 62190 OKLWNTP8 - 62191 PINCTRT8 CKT: 1          0.9116  0.9119 -0.0003

==============================================================================================
 568) 62183 CROSSLK8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 SINGLE 1797 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1          0.7675  0.7666  0.0009
 SINGLE 3370 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.8448  0.8447  0.0001

==============================================================================================
 569) 62184 EMILY  8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 SINGLE 1797 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1          0.7850  0.7841  0.0009
```

```
  SINGLE 3370 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.8559  0.8558  0.0001

==================================================================================================
 570) 62185 OX LAKE8                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1797 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1          0.8026  0.8017  0.0009
  SINGLE 3370 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.8695  0.8694  0.0001

==================================================================================================
 571) 62186 THUN LK8                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1797 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1          0.8502  0.8494  0.0008
  SINGLE 3370 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.8999  0.8997  0.0002
  SINGLE 1931 : 62479 BALLCLB8 - 62487 DEER RV8 CKT: 1          0.9172  0.9170  0.0002

==================================================================================================
 572) 62189 WABEDO 8                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1797 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1          0.8144  0.8135  0.0009
  SINGLE 3370 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.8769  0.8768  0.0001

==================================================================================================
 573) 62192 CRSSLKS8                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1797 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1          0.7681  0.7672  0.0009
  SINGLE 3370 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.8453  0.8453  0.0000

==================================================================================================
 574) 62194 FFTYLKS8                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1797 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1          0.7876  0.7867  0.0009
  SINGLE 3370 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.8584  0.8583  0.0001

==================================================================================================
 575) 62196 BLINDLK8                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1797 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1          0.8203  0.8195  0.0008
  SINGLE 3370 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.8824  0.8822  0.0002

==================================================================================================
 576) 62197 WABDOSW8                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1797 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1          0.8145  0.8137  0.0008
  SINGLE 3370 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.8771  0.8769  0.0002

==================================================================================================
 577) 62207 PLSNTLK8                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1797 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1          0.8147  0.8138  0.0009
  SINGLE 3370 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1          0.8772  0.8771  0.0001

==================================================================================================
 578) 62481 BOY RIV8                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1797 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1          0.8921  0.8914  0.0007
  SINGLE 1931 : 62479 BALLCLB8 - 62487 DEER RV8 CKT: 1          0.8964  0.8962  0.0002

==================================================================================================
 579) 62482 SALEMSW8                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1797 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1          0.8980  0.8973  0.0007
  SINGLE 1931 : 62479 BALLCLB8 - 62487 DEER RV8 CKT: 1          0.9023  0.9022  0.0001
```

```
==================================================================================================
 580) 62489 REMER  8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1797 : 62180 RIVTON 8 - 62192 CRSSLKS8 CKT: 1              0.8749  0.8742  0.0007
  SINGLE 1931 : 62479 BALLCLB8 - 62487 DEER RV8 CKT: 1              0.9079  0.9077  0.0002
  SINGLE 3370 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1              0.9161  0.9158  0.0003

==================================================================================================
 581) 62273 MILACAD8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1821 : 62273 MILACAD8 - 62301 MILACA 8 CKT: 1              0.8376  0.8378 -0.0002

==================================================================================================
 582) 62274 RUSHCYD8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1845 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1              0.8620  0.8607  0.0013
  SINGLE 1823 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1              0.8800  0.8803 -0.0003
  SINGLE 1846 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1              0.9003  0.9007 -0.0004

==================================================================================================
 583) 62275 PINECTY8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1845 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1              0.8816  0.8803  0.0013
  SINGLE 1846 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1              0.8945  0.8949 -0.0004
  SINGLE 1823 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1              0.8951  0.8954 -0.0003

==================================================================================================
 584) 62285 RUSH SW8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1845 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1              0.8643  0.8630  0.0013
  SINGLE 1823 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1              0.8817  0.8821 -0.0004
  SINGLE 1846 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1              0.8997  0.9001 -0.0004

==================================================================================================
 585) 63023 ROCKLK1G                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1845 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1              0.8816  0.8803  0.0013
  SINGLE 1846 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1              0.8945  0.8950 -0.0005
  SINGLE 1823 : 62274 RUSHCYD8 - 62299 ADRIANR8 CKT: 1              0.8951  0.8954 -0.0003

==================================================================================================
 586) 61916 N BRANCH                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1846 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1              0.9101  0.9105 -0.0004
  SINGLE 1829 : 62278 HARRIS 8 - 62293 RUSH CY8 CKT: 1              0.9182  0.9184 -0.0002

==================================================================================================
 587) 62278 HARRIS 8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1846 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1              0.9080  0.9084 -0.0004
  SINGLE 1829 : 62278 HARRIS 8 - 62293 RUSH CY8 CKT: 1              0.9168  0.9170 -0.0002

==================================================================================================
 588) 62299 ADRIANR8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1845 : 62293 RUSH CY8 - 62299 ADRIANR8 CKT: 1              0.8619  0.8606  0.0013
  SINGLE 1846 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1              0.9010  0.9014 -0.0004

==================================================================================================
 589) 62109 ISANTI 8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1846 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1              0.9173  0.9177 -0.0004
```

```
==================================================================================================
 590) 62270 INDSTRL8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1846 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1               0.9029  0.9033 -0.0004

==================================================================================================
 591) 62279 BRAHAM 8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1846 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1               0.9051  0.9056 -0.0005

==================================================================================================
 592) 62282 NBRNCH 8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1846 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1               0.9122  0.9126 -0.0004

==================================================================================================
 593) 62283 DALBO  8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1846 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1               0.8925  0.8929 -0.0004

==================================================================================================
 594) 62284 DALBOTP8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1846 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1               0.8931  0.8935 -0.0004

==================================================================================================
 595) 62291 GRASTON8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1846 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1               0.9152  0.9156 -0.0004

==================================================================================================
 596) 62293 RUSH CY8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1846 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1               0.9069  0.9073 -0.0004

==================================================================================================
 597) 62294 RUSH TP8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1846 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1               0.9054  0.9058 -0.0004

==================================================================================================
 598) 62296 INDSTTP8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1846 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1               0.9039  0.9043 -0.0004

==================================================================================================
 599) 63022 CAMBRDG8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1846 : 62293 RUSH CY8 - 63048 RUSH CY4 CKT: 1               0.8998  0.9002 -0.0004

==================================================================================================
 600) 62272 GILMAN 8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1849 : 62297 BENTON 8 - 62300 MINDEN 8 CKT: 1               0.9085  0.9089 -0.0004

==================================================================================================
 601) 62281 MAYHEW 8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  SINGLE 1849 : 62297 BENTON 8 - 62300 MINDEN 8 CKT: 1               0.8701  0.8705 -0.0004
  SINGLE 3372 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1               0.8927  0.8932 -0.0005
  680         : ** MULTIPLE CONTINGENCY **                           0.8938  0.8938  0.0000
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
```

```
 SINGLE 1850 : 62298 MAYHWTP8 - 62300 MINDEN 8 CKT: 1          0.8986  0.8989 -0.0003

==================================================================================================
 602) 62286 PIPE2TP8                                          PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
 SINGLE 1849 : 62297 BENTON 8 - 62300 MINDEN 8 CKT: 1          0.8821  0.8825 -0.0004
 SINGLE 3372 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1          0.9035  0.9040 -0.0005
 680         : ** MULTIPLE CONTINGENCY **                      0.9046  0.9047 -0.0001
             : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
             : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
 SINGLE 1850 : 62298 MAYHWTP8 - 62300 MINDEN 8 CKT: 1          0.9091  0.9095 -0.0004

==================================================================================================
 603) 62287 OAKPARK8                                          PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
 SINGLE 1849 : 62297 BENTON 8 - 62300 MINDEN 8 CKT: 1          0.8877  0.8881 -0.0004
 SINGLE 3372 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1          0.9076  0.9081 -0.0005
 680         : ** MULTIPLE CONTINGENCY **                      0.9087  0.9087  0.0000
             : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
             : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
 SINGLE 1850 : 62298 MAYHWTP8 - 62300 MINDEN 8 CKT: 1          0.9129  0.9132 -0.0003

==================================================================================================
 604) 62288 OAKPKTP8                                          PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
 SINGLE 1849 : 62297 BENTON 8 - 62300 MINDEN 8 CKT: 1          0.8888  0.8892 -0.0004
 SINGLE 3372 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1          0.9087  0.9092 -0.0005
 680         : ** MULTIPLE CONTINGENCY **                      0.9098  0.9098  0.0000
             : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
             : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
 SINGLE 1850 : 62298 MAYHWTP8 - 62300 MINDEN 8 CKT: 1          0.9139  0.9143 -0.0004

==================================================================================================
 605) 62289 PIPE 2 8                                          PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
 SINGLE 1849 : 62297 BENTON 8 - 62300 MINDEN 8 CKT: 1          0.8820  0.8824 -0.0004
 SINGLE 3372 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1          0.9034  0.9039 -0.0005
 680         : ** MULTIPLE CONTINGENCY **                      0.9045  0.9045  0.0000
             : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
             : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
 SINGLE 1850 : 62298 MAYHWTP8 - 62300 MINDEN 8 CKT: 1          0.9090  0.9094 -0.0004

==================================================================================================
 606) 62290 MAYHWSW8                                          PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
 SINGLE 1849 : 62297 BENTON 8 - 62300 MINDEN 8 CKT: 1          0.8896  0.8899 -0.0003
 SINGLE 3372 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1          0.9094  0.9099 -0.0005
 680         : ** MULTIPLE CONTINGENCY **                      0.9105  0.9105  0.0000
             : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
             : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
 SINGLE 1850 : 62298 MAYHWTP8 - 62300 MINDEN 8 CKT: 1          0.9146  0.9150 -0.0004

==================================================================================================
 607) 62298 MAYHWTP8                                          PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
 SINGLE 1849 : 62297 BENTON 8 - 62300 MINDEN 8 CKT: 1          0.8778  0.8782 -0.0004
 SINGLE 3372 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1          0.9003  0.9008 -0.0005
 680         : ** MULTIPLE CONTINGENCY **                      0.9013  0.9014 -0.0001
             : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
             : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
 SINGLE 1850 : 62298 MAYHWTP8 - 62300 MINDEN 8 CKT: 1          0.9061  0.9065 -0.0004

==================================================================================================
```

```
 608) 62300 MINDEN 8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 1849 : 62297 BENTON 8 - 62300 MINDEN 8 CKT: 1          0.8743  0.8747 -0.0004
  SINGLE 3372 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1          0.9000  0.9005 -0.0005
  680         : ** MULTIPLE CONTINGENCY **                      0.9011  0.9011  0.0000
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1

===============================================================================================
 609) 62479 BALLCLB8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 1931 : 62479 BALLCLB8 - 62487 DEER RV8 CKT: 1          0.8951  0.8950  0.0001

===============================================================================================
 610) 62480 BENA   8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 1931 : 62479 BALLCLB8 - 62487 DEER RV8 CKT: 1          0.8920  0.8919  0.0001

===============================================================================================
 611) 62483 BENA TP8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 1931 : 62479 BALLCLB8 - 62487 DEER RV8 CKT: 1          0.8965  0.8964  0.0001

===============================================================================================
 612) 62302 ISLE   8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 1964 : 62642 ONAMIA 8 - 62652 RUMRVTP8 CKT: 1          0.8646  0.8643  0.0003

===============================================================================================
 613) 62642 ONAMIA 8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 1964 : 62642 ONAMIA 8 - 62652 RUMRVTP8 CKT: 1          0.8577  0.8576  0.0001

===============================================================================================
 614) 62643 OPSTEAD8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 1964 : 62642 ONAMIA 8 - 62652 RUMRVTP8 CKT: 1          0.8641  0.8640  0.0001

===============================================================================================
 615) 62644 GLEN   8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 1964 : 62642 ONAMIA 8 - 62652 RUMRVTP8 CKT: 1          0.8663  0.8664 -0.0001

===============================================================================================
 616) 62645 SPIRITL8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 1964 : 62642 ONAMIA 8 - 62652 RUMRVTP8 CKT: 1          0.8654  0.8657 -0.0003

===============================================================================================
 617) 62647 SPRTLKS8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 1964 : 62642 ONAMIA 8 - 62652 RUMRVTP8 CKT: 1          0.8670  0.8673 -0.0003

===============================================================================================
 618) 62648 OPSTDTP8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 1964 : 62642 ONAMIA 8 - 62652 RUMRVTP8 CKT: 1          0.8642  0.8641  0.0001

===============================================================================================
 619) 62929 ALBERTV8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 2011 : 62938 OTSEGO 8 - 63020 ELK RIV8 CKT: 1          0.9024  0.9031 -0.0007
```

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==========================================================================================
 620) 62938 OTSEGO 8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 2011 : 62938 OTSEGO 8 - 63020 ELK RIV8 CKT: 1               0.8971  0.8978 -0.0007

==========================================================================================
 621) 62948 BLACKLK8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 2011 : 62938 OTSEGO 8 - 63020 ELK RIV8 CKT: 1               0.9187  0.9193 -0.0006

==========================================================================================
 622) 62949 BLKLKTP8  **NEW**                                       PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 2011 : 62938 OTSEGO 8 - 63020 ELK RIV8 CKT: 1               0.9196   .....   *NEW*

==========================================================================================
 623) 62981 MCLEOD 7  **NEW**                                       PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 2024 : 62982 HUTCHMN7 - 62983 HUTCH3M7 CKT: 1               0.9192   .....   *NEW*

==========================================================================================
 624) 62983 HUTCH3M7                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 2024 : 62982 HUTCHMN7 - 62983 HUTCH3M7 CKT: 1               0.9173  0.9190 -0.0017

==========================================================================================
 625) 63194 FERGSFLY                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 2192 : 63329 WAHPETN4 - 63331 FERGSFL4 CKT: 1               0.9034  0.9047 -0.0013
  SINGLE 2075 : 63194 FERGSFLY - 63331 FERGSFL4 CKT: 1               0.9151  0.9161 -0.0010

==========================================================================================
 626) 67213 AVSDC2TY                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 2639 : 67212 AVSDC1TY - 67216 AVSDC5TY CKT: 1               0.9127  0.9127  0.0000

==========================================================================================
 627) 67216 AVSDC5TY                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 2639 : 67212 AVSDC1TY - 67216 AVSDC5TY CKT: 1               0.8044  0.8044  0.0000

==========================================================================================
 628) 67217 AVSDC6TY                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 2639 : 67212 AVSDC1TY - 67216 AVSDC5TY CKT: 1               0.9026  0.9026  0.0000

==========================================================================================
 629) 67222 AVSD11TY                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 2643 : 67218 AVSDC7TY - 67222 AVSD11TY CKT: 1               0.8064  0.8064  0.0000

==========================================================================================
 630) 67223 AVSD12TY                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 2643 : 67218 AVSDC7TY - 67222 AVSD11TY CKT: 1               0.8905  0.8905  0.0000

==========================================================================================
 631) 34036 ROCK CK3                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 2730 : 34036 ROCK CK3 - 36382 QUAD ;   CKT: 1               0.8990  0.8988  0.0002

==========================================================================================
 632) 34038 BVR CH 5                                                PSTCNT2 PSTCNT1 PU-CHNG
```

```
-----------------------------------------------------------------------------------------------
  SINGLE 2730 : 34036 ROCK CK3 - 36382 QUAD ;   CKT: 1          0.9132  0.9130  0.0002

===============================================================================================
 633) 34042 BVR CH65                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 2730 : 34036 ROCK CK3 - 36382 QUAD ;   CKT: 1          0.9132  0.9130  0.0002

===============================================================================================
 634) 34044 ALBANY 5                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 2730 : 34036 ROCK CK3 - 36382 QUAD ;   CKT: 1          0.9168  0.9166  0.0002

===============================================================================================
 635) 34046 YORK   5                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 2730 : 34036 ROCK CK3 - 36382 QUAD ;   CKT: 1          0.9192  0.9189  0.0003

===============================================================================================
 636) 34124 DEWITT 5                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 2730 : 34036 ROCK CK3 - 36382 QUAD ;   CKT: 1          0.9180  0.9178  0.0002

===============================================================================================
 637) 34061 BNE JCT5                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 2753 : 34061 BNE JCT5 - 64067 BONDRNT5 CKT: 1          0.9153  0.9159 -0.0006

===============================================================================================
 638) 34523 HILLSIEY                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 2854 : 34523 HILLSIEY - 64350 HILLS  3 CKT: 1          0.9114  0.9115 -0.0001

===============================================================================================
 639) 60737 COKATO 8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 3073 : 60739 DASSEL 8 - 62617 BIGSWAN8 CKT: 1          0.9012  0.9025 -0.0013

===============================================================================================
 640) 60738 WNSTDTP8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 3073 : 60739 DASSEL 8 - 62617 BIGSWAN8 CKT: 1          0.8921  0.8935 -0.0014

===============================================================================================
 641) 60739 DASSEL 8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 3073 : 60739 DASSEL 8 - 62617 BIGSWAN8 CKT: 1          0.8936  0.8949 -0.0013

===============================================================================================
 642) 60773 COKATOT8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 3073 : 60739 DASSEL 8 - 62617 BIGSWAN8 CKT: 1          0.9008  0.9021 -0.0013

===============================================================================================
 643) 60932 WINSTED8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 3073 : 60739 DASSEL 8 - 62617 BIGSWAN8 CKT: 1          0.8834  0.8848 -0.0014

===============================================================================================
 644) 60933 MILRBND8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 3073 : 60739 DASSEL 8 - 62617 BIGSWAN8 CKT: 1          0.8834  0.8848 -0.0014
```

```
==========================================================================================
 645) 60905 FRMNGTN8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 3185 : 60905 FRMNGTN8 - 62259 LKMARN 8 CKT: 1              0.9181  0.9188 -0.0007

==========================================================================================
 646) 60915 HASTING8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  WEH-CHE/HAS7: ** MULTIPLE CONTINGENCY **                          0.8775  0.8789 -0.0014
              : 60342 WHAST  7 - 60201 CHEMOLT7 CKT: 1
              : 62258 WHASTNG8 - 60915 HASTING8 CKT: 1
  SINGLE 3187 : 60915 HASTING8 - 62258 WHASTNG8 CKT: 1              0.8777  0.8791 -0.0014

==========================================================================================
 647) 61033 KCH-PRE8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  WEH-CHE/HAS7: ** MULTIPLE CONTINGENCY **                          0.8985  0.8998 -0.0013
              : 60342 WHAST  7 - 60201 CHEMOLT7 CKT: 1
              : 62258 WHASTNG8 - 60915 HASTING8 CKT: 1
  SINGLE 3187 : 60915 HASTING8 - 62258 WHASTNG8 CKT: 1              0.8987  0.9000 -0.0013

==========================================================================================
 648) 61034 PRESCOT8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  WEH-CHE/HAS7: ** MULTIPLE CONTINGENCY **                          0.8842  0.8855 -0.0013
              : 60342 WHAST  7 - 60201 CHEMOLT7 CKT: 1
              : 62258 WHASTNG8 - 60915 HASTING8 CKT: 1
  SINGLE 3187 : 60915 HASTING8 - 62258 WHASTNG8 CKT: 1              0.8844  0.8858 -0.0014

==========================================================================================
 649) 61141 T OAKGR8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  WEH-CHE/HAS7: ** MULTIPLE CONTINGENCY **                          0.8947  0.8960 -0.0013
              : 60342 WHAST  7 - 60201 CHEMOLT7 CKT: 1
              : 62258 WHASTNG8 - 60915 HASTING8 CKT: 1
  SINGLE 3187 : 60915 HASTING8 - 62258 WHASTNG8 CKT: 1              0.8949  0.8962 -0.0013

==========================================================================================
 650) 61144 T TRIMB8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  WEH-CHE/HAS7: ** MULTIPLE CONTINGENCY **                          0.9186  0.9197 -0.0011
              : 60342 WHAST  7 - 60201 CHEMOLT7 CKT: 1
              : 62258 WHASTNG8 - 60915 HASTING8 CKT: 1
  SINGLE 3187 : 60915 HASTING8 - 62258 WHASTNG8 CKT: 1              0.9188  0.9199 -0.0011

==========================================================================================
 651) 61980 RICE   5                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 3365 : 61980 RICE   5 - 69526 BVR CRK5 CKT: 1              0.8638  0.8647 -0.0009

==========================================================================================
 652) 62180 RIVTON 8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 3370 : 62180 RIVTON 8 - 61653 RIVERTN7 CKT: 1              0.8503  0.8503  0.0000

==========================================================================================
 653) 62297 BENTON 8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 3372 : 62297 BENTON 8 - 63045 BENTON 4 CKT: 1              0.9000  0.9005 -0.0005
  680         : ** MULTIPLE CONTINGENCY **                          0.9011  0.9011  0.0000
              : 63045 BENTON 4 - 60143 BENTON 7 CKT: P
              : 63045 BENTON 4 - 62297 BENTON 8 CKT: 1
```

```
==========================================================================================
 654) 62445 4CORNRS7                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  SINGLE 3378 : 62445 4CORNRS7 - 61673 ARROWHD7 CKT: 1              0.8948  0.8948  0.0000
  050    1    : ** MULTIPLE CONTINGENCY **                          0.9181  0.9181  0.0000
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1

==========================================================================================
 655) 60146 GRANCTY7                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  BEN-GRC/SCL7: ** MULTIPLE CONTINGENCY **                          0.7890  0.7923 -0.0033
              : 60143 BENTON 7 - 60146 GRANCTY7 CKT: 1
              : 60143 BENTON 7 - 60348 BENCTP7  CKT: 1
              : 60348 BENCTP7  - 60157 STCLOUD7 CKT: 1

==========================================================================================
 656) 60154 SAUK RV7                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  BEN-GRC/SCL7: ** MULTIPLE CONTINGENCY **                          0.8267  0.8297 -0.0030
              : 60143 BENTON 7 - 60146 GRANCTY7 CKT: 1
              : 60143 BENTON 7 - 60348 BENCTP7  CKT: 1
              : 60348 BENCTP7  - 60157 STCLOUD7 CKT: 1

==========================================================================================
 657) 60157 STCLOUD7                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  BEN-GRC/SCL7: ** MULTIPLE CONTINGENCY **                          0.8794  0.8819 -0.0025
              : 60143 BENTON 7 - 60146 GRANCTY7 CKT: 1
              : 60143 BENTON 7 - 60348 BENCTP7  CKT: 1
              : 60348 BENCTP7  - 60157 STCLOUD7 CKT: 1

==========================================================================================
 658) 60158 STCLTP 7                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  BEN-GRC/SCL7: ** MULTIPLE CONTINGENCY **                          0.9040  0.9062 -0.0022
              : 60143 BENTON 7 - 60146 GRANCTY7 CKT: 1
              : 60143 BENTON 7 - 60348 BENCTP7  CKT: 1
              : 60348 BENCTP7  - 60157 STCLOUD7 CKT: 1

==========================================================================================
 659) 60159 STCTPW 7                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  BEN-GRC/SCL7: ** MULTIPLE CONTINGENCY **                          0.8941  0.8965 -0.0024
              : 60143 BENTON 7 - 60146 GRANCTY7 CKT: 1
              : 60143 BENTON 7 - 60348 BENCTP7  CKT: 1
              : 60348 BENCTP7  - 60157 STCLOUD7 CKT: 1

==========================================================================================
 660) 60161 STREGIS7                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  BEN-GRC/SCL7: ** MULTIPLE CONTINGENCY **                          0.7792  0.7827 -0.0035
              : 60143 BENTON 7 - 60146 GRANCTY7 CKT: 1
              : 60143 BENTON 7 - 60348 BENCTP7  CKT: 1
              : 60348 BENCTP7  - 60157 STCLOUD7 CKT: 1

==========================================================================================
 661) 60163 WST CLD7                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  BEN-GRC/SCL7: ** MULTIPLE CONTINGENCY **                          0.8207  0.8237 -0.0030
```

```
              : 60143 BENTON 7 - 60146 GRANCTY7 CKT: 1
              : 60143 BENTON 7 - 60348 BENCTP7  CKT: 1
              : 60348 BENCTP7  - 60157 STCLOUD7 CKT: 1

==================================================================================================
 662) 60164 XRDS   7                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  BEN-GRC/SCL7: ** MULTIPLE CONTINGENCY **                           0.8011  0.8043 -0.0032
              : 60143 BENTON 7 - 60146 GRANCTY7 CKT: 1
              : 60143 BENTON 7 - 60348 BENCTP7  CKT: 1
              : 60348 BENCTP7  - 60157 STCLOUD7 CKT: 1

==================================================================================================
 663) 60165 MEI INT7                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  BEN-GRC/SCL7: ** MULTIPLE CONTINGENCY **                           0.8068  0.8100 -0.0032
              : 60143 BENTON 7 - 60146 GRANCTY7 CKT: 1
              : 60143 BENTON 7 - 60348 BENCTP7  CKT: 1
              : 60348 BENCTP7  - 60157 STCLOUD7 CKT: 1

==================================================================================================
 664) 60348 BENCTP7                                                 PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  BEN-GRC/SCL7: ** MULTIPLE CONTINGENCY **                           0.7890  0.7923 -0.0033
              : 60143 BENTON 7 - 60146 GRANCTY7 CKT: 1
              : 60143 BENTON 7 - 60348 BENCTP7  CKT: 1
              : 60348 BENCTP7  - 60157 STCLOUD7 CKT: 1

==================================================================================================
 665) 60732 WST CLD8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  BEN-GRC/SCL7: ** MULTIPLE CONTINGENCY **                           0.9038  0.9073 -0.0035
              : 60143 BENTON 7 - 60146 GRANCTY7 CKT: 1
              : 60143 BENTON 7 - 60348 BENCTP7  CKT: 1
              : 60348 BENCTP7  - 60157 STCLOUD7 CKT: 1

==================================================================================================
 666) 60758 JOHNS U8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  BEN-GRC/SCL7: ** MULTIPLE CONTINGENCY **                           0.9163  0.9198 -0.0035
              : 60143 BENTON 7 - 60146 GRANCTY7 CKT: 1
              : 60143 BENTON 7 - 60348 BENCTP7  CKT: 1
              : 60348 BENCTP7  - 60157 STCLOUD7 CKT: 1

==================================================================================================
 667) 60759 STJOSPH8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  BEN-GRC/SCL7: ** MULTIPLE CONTINGENCY **                           0.9095  0.9130 -0.0035
              : 60143 BENTON 7 - 60146 GRANCTY7 CKT: 1
              : 60143 BENTON 7 - 60348 BENCTP7  CKT: 1
              : 60348 BENCTP7  - 60157 STCLOUD7 CKT: 1

==================================================================================================
 668) 61189 WATAB  8                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  BEN-GRC/SCL7: ** MULTIPLE CONTINGENCY **                           0.9104  0.9139 -0.0035
              : 60143 BENTON 7 - 60146 GRANCTY7 CKT: 1
              : 60143 BENTON 7 - 60348 BENCTP7  CKT: 1
              : 60348 BENCTP7  - 60157 STCLOUD7 CKT: 1

==================================================================================================
 669) 60282 REDCDR 5                                                PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
```

```
 RCD-CRY/WHT5: ** MULTIPLE CONTINGENCY **                      0.8987  0.8987  0.0000
             : 60282 REDCDR 5 - 60329 CRYSTAL5 CKT: 1
             : 60282 REDCDR 5 - 60319 WHEATTP5 CKT: 1

==============================================================================================
 670) 60132 WSX FLS7                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 525      1  : ** MULTIPLE CONTINGENCY **                      0.8081  0.8075  0.0006
             : 60117 CHERRYC7 - 60132 WSX FLS7 CKT: 1
             : 60129 SPLT RK7 - 60132 WSX FLS7 CKT: 1

==============================================================================================
 671) 34018 HAZLTON3                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 SINGLE 55   : 34018 HAZLTON3 - 34093 ARNOLD 3 CKT: 1          0.9126  0.9140 -0.0014

==============================================================================================
 672) 34010 HAYWARD5                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                      0.9098  0.9120 -0.0022
             : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
             : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
 SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1          0.9110  0.9119 -0.0009
 SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1          0.9144  0.9159 -0.0015

==============================================================================================
 673) 34285 ALDEN J8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                      0.8961  0.8986 -0.0025
             : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
             : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
 SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1          0.8971  0.8852  0.0119
 SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1          0.9065  0.9088 -0.0023

==============================================================================================
 674) 34293 HAYWD#18                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                      0.8977  0.9001 -0.0024
             : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
             : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
 SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1          0.8988  0.8951  0.0037
 SINGLE 3362 : 61950 BYRON  3 - 63032 PL VLLY3 CKT: 1          0.9055  0.9074 -0.0019

==============================================================================================
 675) 34009 WINBAGO5                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                      0.9170  0.9185 -0.0015
             : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
             : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
 SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1          0.9174   .....   *NEW*

==============================================================================================
 676) 34013 WNBAGOS5                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                      0.9170  0.9185 -0.0015
             : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
             : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
 SINGLE 951  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1          0.9174   .....   *NEW*

==============================================================================================
 677) 34265 WALTERS8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 PRI-BYN/RRK3: ** MULTIPLE CONTINGENCY **                      0.9149  0.9173 -0.0024
```

```
              : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1
              : 60105 PR ISLD3 - 60236 REDROCK3 CKT: 2
 SINGLE 951   : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1          0.9158  0.8995  0.0163

==================================================================================================
 678) 61576 HILTPJCT                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  050    1    : ** MULTIPLE CONTINGENCY **                       0.9178  0.9179 -0.0001
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1

==================================================================================================
 679) 61614 98L TAP4                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  050    1    : ** MULTIPLE CONTINGENCY **                       0.9074  0.9075 -0.0001
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1

==================================================================================================
 680) 61615 ARROWHD4                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  050    1    : ** MULTIPLE CONTINGENCY **                       0.9065  0.9066 -0.0001
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1

==================================================================================================
 681) 61616 HILLTOP4                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  050    1    : ** MULTIPLE CONTINGENCY **                       0.9076  0.9077 -0.0001
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1

==================================================================================================
 682) 61618 ARROWHD3                                            PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  050    1    : ** MULTIPLE CONTINGENCY **                       0.8660  0.8663 -0.0003
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
 ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                       0.8853  0.8850  0.0003
              : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
  050    3    : ** MULTIPLE CONTINGENCY **                       0.8922  0.8988 -0.0066
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
  050    2    : ** MULTIPLE CONTINGENCY **                       0.8985  0.8852  0.0133
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
```

```
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
 SINGLE 2989 : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1          0.9112  0.9116 -0.0004

==============================================================================================
 683) 61619 AHD PST                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  050    1    : ** MULTIPLE CONTINGENCY **                      0.9059  0.9060 -0.0001
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1

==============================================================================================
 684) 61672 HILLTOP7                                           PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  050    1    : ** MULTIPLE CONTINGENCY **                      0.9155  0.9156 -0.0001
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1

==============================================================================================
 685) 61673 ARROWHD7                                           PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  050    1    : ** MULTIPLE CONTINGENCY **                      0.9171  0.9171  0.0000
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1

==============================================================================================
 686) 61674 HANESRD7                                           PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  050    1    : ** MULTIPLE CONTINGENCY **                      0.9174  0.9174  0.0000
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1

==============================================================================================
 687) 61676 HIBBARD7                                           PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  050    1    : ** MULTIPLE CONTINGENCY **                      0.9169  0.9170 -0.0001
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1

==============================================================================================
 688) 61679 GARY   7                                           PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  050    1    : ** MULTIPLE CONTINGENCY **                      0.9183  0.9184 -0.0001
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
```

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==========================================================================================
 689) 61680 WNTR ST7                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  050    1    : ** MULTIPLE CONTINGENCY **                           0.9180  0.9181 -0.0001
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1

==========================================================================================
 690) 61681 LSPI   7                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  050    1    : ** MULTIPLE CONTINGENCY **                           0.9166  0.9167 -0.0001
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1

==========================================================================================
 691) 61686 15TH AV7                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  050    1    : ** MULTIPLE CONTINGENCY **                           0.9128  0.9128  0.0000
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1

==========================================================================================
 692) 61687 MIDWAY 7                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  050    1    : ** MULTIPLE CONTINGENCY **                           0.9166  0.9166  0.0000
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1

==========================================================================================
 693) 62395 BARDON 8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  050    1    : ** MULTIPLE CONTINGENCY **                           0.9015  0.9017 -0.0002
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
              : 39901 COC DPC  - 38342 COC 69   CKT: 1
              : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
  ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                           0.9143  0.9140  0.0003
              : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
  050    2    : ** MULTIPLE CONTINGENCY **                           0.9137   .....  *ELIM*
              : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
              : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
              : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1

==========================================================================================
 694) 62396 AMNICON8                                                PSTCNT2 PSTCNT1 PU-CHNG
------------------------------------------------------------------------------------------
  050    1    : ** MULTIPLE CONTINGENCY **                           0.9001  0.9003 -0.0002
```

```
                : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
                : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
                : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
                : 39901 COC DPC  - 38342 COC 69   CKT: 1
                : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
  ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                    0.9129  0.9126  0.0003
                : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
                : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
                : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
  050     2     : ** MULTIPLE CONTINGENCY **                    0.9123   .....  *ELIM*
                : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
                : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
                : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1

==============================================================================================
 695) 62397 SUMMIT 8                                         PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  050     1     : ** MULTIPLE CONTINGENCY **                    0.8996  0.8998 -0.0002
                : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
                : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
                : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
                : 39901 COC DPC  - 38342 COC 69   CKT: 1
                : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
  ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                    0.9125  0.9121  0.0004
                : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
                : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
                : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
  050     2     : ** MULTIPLE CONTINGENCY **                    0.9119   .....  *ELIM*
                : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
                : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
                : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1

==============================================================================================
 696) 62400 BARDNSW8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  050     1     : ** MULTIPLE CONTINGENCY **                    0.9001  0.9003 -0.0002
                : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
                : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
                : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
                : 39901 COC DPC  - 38342 COC 69   CKT: 1
                : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
  ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                    0.9130  0.9126  0.0004
                : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
                : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
                : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
  050     2     : ** MULTIPLE CONTINGENCY **                    0.9124   .....  *ELIM*
                : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
                : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
                : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1

==============================================================================================
 697) 62401 AMNCNTP8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  050     1     : ** MULTIPLE CONTINGENCY **                    0.9004  0.9005 -0.0001
                : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
                : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
                : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
                : 39901 COC DPC  - 38342 COC 69   CKT: 1
                : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
  ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                    0.9132  0.9129  0.0003
                : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
                : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
                : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
```

```
 050    2    : ** MULTIPLE CONTINGENCY **                        0.9126   .....  *ELIM*
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1

==============================================================================================
 698) 62403 STINSON8                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 050    1    : ** MULTIPLE CONTINGENCY **                        0.9044  0.9046 -0.0002
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1
 ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                        0.9171  0.9168  0.0003
             : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
 050    2    : ** MULTIPLE CONTINGENCY **                        0.9165   .....  *ELIM*
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1

==============================================================================================
 699) 64411 GALESBR5                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 050    1    : ** MULTIPLE CONTINGENCY **                        0.9192  0.9194 -0.0002
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1

==============================================================================================
 700) 64682 GALEMID1                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 050    1    : ** MULTIPLE CONTINGENCY **                        0.9192  0.9194 -0.0002
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1

==============================================================================================
 701) 64683 GALEMID2                                          PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 050    1    : ** MULTIPLE CONTINGENCY **                        0.9192  0.9194 -0.0002
             : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
             : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1
             : 60304 EAU CL 3 - 60305 EAU CLA5 CKT: 1
             : 39901 COC DPC  - 38342 COC 69   CKT: 1
             : 38333 HLT 69   - 68821 MAUSTON  CKT: 1

**** LOW VOLTAGE LIMITERS ELIMINATED IN ACCC #2 FILE ****

==============================================================================================
 702) 34284 MINNLKT8  *ELIM*                                  PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
 SINGLE 949  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1          .....  0.9194  *ELIM*

==============================================================================================
 703) 61938 WELLS  *ELIM*                                     PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
```

```
  SINGLE 949  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1          .....  0.9161  *ELIM*

==============================================================================================
 704) 62332 CLARK  8  *ELIM*                                    PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 949  : 60105 PR ISLD3 - 61950 BYRON  3 CKT: 1          .....  0.9142  *ELIM*

**** --HIGH-- VOLTAGE LIMITER CHANGES *****

==============================================================================================
 705) 66580 SPENCR 8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 2518 : 66563 SPENCER5 - 66580 SPENCR 8 CKT: 1          1.1102  1.1097  0.0005
  SINGLE 2519 : 66563 SPENCER5 - 66580 SPENCR 8 CKT: 2          1.1074  1.1069  0.0005
  SINGLE 247  : 34137 TRIBOJI5 - 66563 SPENCER5 CKT: 1          1.1040   .....   *NEW*
  SINGLE 3550 : 66563 SPENCER5 - 63713 OSGOOD 5 CKT: 1          1.1031  1.1019  0.0012

==============================================================================================
 706) 61063 RIVER F8                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 3288 : 61063 RIVER F8 - 61163 RVRFLSMG CKT: 1          1.1293  1.1296 -0.0003
  SINGLE 3001 : 60327 T RIVFL7 - 68966 GLENMONT CKT: 1          1.1158  1.1160 -0.0002
  SINGLE 2956 : 60238 REDROCK7 - 68966 GLENMONT CKT: 1          1.1135  1.1137 -0.0002
  SINGLE 958  : 60108 WILMART3 - 60192 BLUE LK3 CKT: 1          1.1079  1.1128 -0.0049
  SINGLE 2934 : 60186 AS KING3 - 60006 KING 31G CKT: 1          1.1037  1.1035  0.0002

==============================================================================================
 707) 63269 JAMSTWN7                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 2196 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1          1.1712  1.1712  0.0000
  SINGLE 2195 : 63358 BUFFALO3 - 63369 JAMESTN3 CKT: 1          1.1227  1.1227  0.0000

==============================================================================================
 708) 63270 LADISH 7                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 2196 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1          1.1707  1.1707  0.0000
  SINGLE 2195 : 63358 BUFFALO3 - 63369 JAMESTN3 CKT: 1          1.1220  1.1220  0.0000

==============================================================================================
 709) 63271 AVIKO  7                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 2196 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1          1.1705  1.1705  0.0000
  SINGLE 2195 : 63358 BUFFALO3 - 63369 JAMESTN3 CKT: 1          1.1217  1.1217  0.0000

==============================================================================================
 710) 63272 JAMESPK7                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 2196 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1          1.1704  1.1704  0.0000
  SINGLE 2195 : 63358 BUFFALO3 - 63369 JAMESTN3 CKT: 1          1.1216  1.1216  0.0000

==============================================================================================
 711) 63273 JAMETAP7                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 2196 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1          1.1704  1.1704  0.0000
  SINGLE 2195 : 63358 BUFFALO3 - 63369 JAMESTN3 CKT: 1          1.1216  1.1216  0.0000

==============================================================================================
 712) 63274 JAMSDTN7                                            PSTCNT2 PSTCNT1 PU-CHNG
----------------------------------------------------------------------------------------------
  SINGLE 2196 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1          1.1703  1.1704 -0.0001
  SINGLE 2195 : 63358 BUFFALO3 - 63369 JAMESTN3 CKT: 1          1.1216  1.1216  0.0000

==============================================================================================
```

```
 713) 63275 NJAMES 7                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 2196 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1          1.1705  1.1705  0.0000
  SINGLE 2195 : 63358 BUFFALO3 - 63369 JAMESTN3 CKT: 1          1.1218  1.1218  0.0000

===============================================================================================
 714) 63198 BUFFALOY                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 2196 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1          1.1504  1.1504  0.0000

===============================================================================================
 715) 63199 JAMSTN1Y                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 2196 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1          1.1418  1.1419 -0.0001

===============================================================================================
 716) 63200 JAMSTN2Y                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 2196 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1          1.1418  1.1419 -0.0001

===============================================================================================
 717) 63258 BUFFALO7                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 2196 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1          1.1802  1.1802  0.0000

===============================================================================================
 718) 63259 ALICE  7                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 2196 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1          1.1808  1.1808  0.0000

===============================================================================================
 719) 63358 BUFFALO3                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 2196 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1          1.1482  1.1482  0.0000

===============================================================================================
 720) 63369 JAMESTN3                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 2196 : 63358 BUFFALO3 - 66792 MAPLE R3 CKT: 1          1.1402  1.1402  0.0000

===============================================================================================
 721) 66568 CRESTN 8                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 2511 : 66560 CRESTON5 - 66568 CRESTN 8 CKT: 1          1.1297  1.1305 -0.0008

===============================================================================================
 722) 67170 STEGALDC                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 2539 : 66584 SIDNEYW4 - 67170 STEGALDC CKT: 1          1.1379  1.1379  0.0000

===============================================================================================
 723) 67171 MBPP-1                                            PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 2539 : 66584 SIDNEYW4 - 67170 STEGALDC CKT: 1          1.1242  1.1242  0.0000

===============================================================================================
 724) 60264 LOON LK7                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
  SINGLE 2965 : 60264 LOON LK7 -  6999 WTV1     CKT: 1          1.1639  1.1645 -0.0006

===============================================================================================
 725) 60315 T-CRNRS7                                          PSTCNT2 PSTCNT1 PU-CHNG
-----------------------------------------------------------------------------------------------
```

```
  825          : ** MULTIPLE CONTINGENCY **                        1.1698  1.1701 -0.0003
               : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
               : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
               : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1
  ASK-RRK/ECL3: ** MULTIPLE CONTINGENCY **                        1.1190  1.1189  0.0001
               : 60186 AS KING3 - 60236 REDROCK3 CKT: 1
               : 60186 AS KING3 - 60304 EAU CL 3 CKT: 1
               : 60304 EAU CL 3 - 39244 ARP 345  CKT: 1

==================================================================================================
 726) 60666 T CORNE8                                             PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  825          : ** MULTIPLE CONTINGENCY **                        1.1259  1.1261 -0.0002
               : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
               : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
               : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1

==================================================================================================
 727) 61015 LAKEHEA8                                             PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  825          : ** MULTIPLE CONTINGENCY **                        1.1068  1.1070 -0.0002
               : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
               : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
               : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1

==================================================================================================
 728) 61016 T SPEN 8                                             PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  825          : ** MULTIPLE CONTINGENCY **                        1.1216  1.1218 -0.0002
               : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
               : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
               : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1

==================================================================================================
 729) 61017 SPENCER8                                             PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  825          : ** MULTIPLE CONTINGENCY **                        1.1222  1.1225 -0.0003
               : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
               : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
               : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1

==================================================================================================
 730) 61018 SPOKESV8                                             PSTCNT2 PSTCNT1 PU-CHNG
--------------------------------------------------------------------------------------------------
  825          : ** MULTIPLE CONTINGENCY **                        1.1127  1.1130 -0.0003
               : 63032 PL VLLY3 - 60102 ADAMS  3 CKT: 1
               : 60102 ADAMS  3 - 34014 ADAMS  5 CKT: 1
               : 60102 ADAMS  3 - 34018 HAZLTON3 CKT: 1

**** HIGH VOLTAGE LIMITERS ELIMINATED IN ACCC #2 FILE ****

**** NON-CONVERGED SUMMARY FOR ACCC #1 FILE ****

SINGLE 2       6001 YANKEE 7 -  66337 WHITE2 7  CKT:  1
SINGLE 1289   60286 NOBLES 3 -  60287 NOBLES 7  CKT:  C
SINGLE 2307   66337 WHITE2 7 -  66537 WHITE  3  CKT:  P

**** NON-CONVERGED SUMMARY FOR ACCC #2 FILE ****

SINGLE 2       6001 YANKEE 7 -  66337 WHITE2 7  CKT:  1
SINGLE 1291   60286 NOBLES 3 -  60287 NOBLES 7  CKT:  C
SINGLE 2309   66337 WHITE2 7 -  66537 WHITE  3  CKT:  P
```

APPENDIX E

MUST OUTPUT FOR N-1 CONTINGENCY ANALYSIS

SUMMER PEAK WITH GI-0304

```
 *** MUST 6.0   ***  FRI, AUG 06 2004  11:47 ***
     GI-0304 SU PK CASE FROM 2002 SERIES,2007 SUMR PK
     SP07AA.GI-0304.SAV / SUMMER PEAK
Subsys.File gr2.sub
Monit.File  gr2.mon
Contin.File gr2.con
Exclud.File gr2.exc

 *** MUST 6.0   ***  FRI, AUG 06 2004  11:47 ***
     GI-0304 SU PK CASE FROM 2002 SERIES,2007 SUMR PK
     SP07AA.GI-0304.SAV / SUMMER PEAK
Subsys.File gr2.sub
Monit.File  gr2.mon
Contin.File gr2.con
Exclud.File gr2.exc

Study transfer. From GI0304_SOURCE  To GI0304_SINK_SP. Transfer level -     10.0 MW


 Violations report ordered by transfer capability. Total  2197 violations


    N    FCITC L: Limiting constraint                          PreShift    MW       TDF             PTDF =Base Case Flow=
               C: Contingency description                   Ncon   Flow  Rating             LODF              Init   Final
    1 -71643.0 L:60262 EDEN PR3 345 60263 EDEN PR7 115 1         508.5   448.0  0.00084          0.00057   342.4   301.7
               C:60262 EDEN PR3 345 60263 EDEN PR7 115 2    1274
                 Open 60262 EDEN PR3 345 60263 EDEN PR7 115 2                           0.52189  0.00053   318.3   280.4
    2 -68392.6 L: 6001 YANKEE 7 115 66337 WHITE2 7 115 1         384.0   310.0  0.00108         -0.00116   315.3   394.9
               C:60119 LKYNKTN7 115 60279 BUFFRID7 115 1     985
                 Open 60119 LKYNKTN7 115 60279 BUFFRID7 115 1                          -0.46078 -0.00488  -149.2   184.3
    3 -52436.3 L:60262 EDEN PR3 345 60263 EDEN PR7 115 2         490.7   448.0  0.00081          0.00053   318.3   290.6
               C:60262 EDEN PR3 345 60263 EDEN PR7 115 1    1273
                 Open 60262 EDEN PR3 345 60263 EDEN PR7 115 1                           0.50368  0.00057   342.4   312.6
    4 -37246.2 L:62935 MAPLELK869.0 63024 MAPLE 1G69.0 1          47.2    24.3  0.00062          0.00099    14.0   -22.7
               C:62134 ELKR14S869.0 62967 ELKRWS2869.0 1    1778
                 Open 62134 ELKR14S869.0 62967 ELKRWS2869.0 1                           0.49770 -0.00074    66.7    94.4
    5 -37244.9 L:62944 GOOSETP869.0 63024 MAPLE 1G69.0 1         -47.2   -24.3 -0.00062         -0.00099   -14.0    22.7
               C:62134 ELKR14S869.0 62967 ELKRWS2869.0 1    1778
                 Open 62134 ELKR14S869.0 62967 ELKRWS2869.0 1                          -0.49770 -0.00074    66.7    94.4
    6 -36973.8 L:60208 EDINA  7 115 60263 EDEN PR7 115 1        -400.1  -318.0 -0.00222         -0.00290  -288.5  -181.4
               C:EDP-WSG/WSG7                               3673
                 Open 60256 WSTGATE7 115 60263 EDEN PR7 115 1                           0.37642  0.00090  -148.1  -181.4
                 Open 60256 WSTGATE7 115 60263 EDEN PR7 115 2                           0.37642  0.00090  -148.1  -181.4
    7 -32688.5 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -34.0   -17.3 -0.00051         -0.00090   -25.8     3.5
               C:62938 OTSEGO 869.0 63020 ELK RIV869.0 1    2013
                 Open 62938 OTSEGO 869.0 63020 ELK RIV869.0 1                           0.31429  0.00123   -26.0   -66.3
    8 -32412.1 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          42.6    19.3  0.00072          0.00055    31.8    14.0
               C:60760 PAYNES 869.0 62824 ZION TP869.0 1    3126
                 Open 60760 PAYNES 869.0 62824 ZION TP869.0 1                           0.38192  0.00045    28.3    13.8
    9 -31648.7 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          42.1    19.3  0.00072          0.00055    31.8    14.4
               C:60768 ELRSATP869.0 62824 ZION TP869.0 1    3133
                 Open 60768 ELRSATP869.0 62824 ZION TP869.0 1                          -0.38192 -0.00045   -26.9   -12.7
   10 -30574.5 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          38.7    19.3  0.00064          0.00055    31.8    15.0
               C:60749 DGLAS C869.0 60750 OSAKIS 869.0 1    1431
                 Open 60749 DGLAS C869.0 60750 OSAKIS 869.0 1                           0.25797  0.00033    26.7    16.5
   11 -29354.2 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          38.0    19.3  0.00064          0.00055    31.8    15.7
               C:60750 OSAKIS 869.0 62820 W UNION869.0 1    3118
                 Open 60750 OSAKIS 869.0 62820 W UNION869.0 1                           0.25797  0.00033    23.7    13.9
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12 -28164.9 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          39.6    19.3  0.00072          0.00055    31.8    16.4
            C:60753 MEIRGRV869.0 60768 ELRSATP869.0 1    1434
              Open 60753 MEIRGRV869.0 60768 ELRSATP869.0 1                          -0.38192 -0.00045   -20.3    -7.7
13 -27816.3 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -31.5   -17.3 -0.00051         -0.00090   -25.8    -0.8
            C:62929 ALBERTV869.0 62938 OTSEGO 869.0 1    2000
              Open 62929 ALBERTV869.0 62938 OTSEGO 869.0 1                           0.31429  0.00123   -18.1   -52.4
14 -27311.4 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          39.0    19.3  0.00072          0.00055    31.8    16.8
            C:60752 BLCKOAK869.0 60753 MEIRGRV869.0 1    1432
              Open 60752 BLCKOAK869.0 60753 MEIRGRV869.0 1                          -0.38192 -0.00045   -18.7    -6.5
15 -27235.0 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          34.5    19.3  0.00056          0.00055    31.8    16.9
            C:60743 BELGRAD869.0 60760 PAYNES 869.0 1    1427
              Open 60743 BELGRAD869.0 60760 PAYNES 869.0 1                          -0.12264 -0.00007   -21.6   -19.8
16 -26846.3 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          34.3    19.3  0.00056          0.00055    31.8    17.1
            C:60743 BELGRAD869.0 62827 CROW LK869.0 1    3110
              Open 60743 BELGRAD869.0 62827 CROW LK869.0 1                           0.12264  0.00007    19.9    18.1
17 -26330.3 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          33.0    19.3  0.00052          0.00055    31.8    17.4
            C:60143 BENTON 7 115 60146 GRANCTY7 115 1    1035
              Open 60143 BENTON 7 115 60146 GRANCTY7 115 1                           0.00799 -0.00357   147.7   241.7
18 -26053.7 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          33.7    19.3  0.00055          0.00055    31.8    17.5
            C:60154 SAUK RV7 115 60157 STCLOUD7 115 1    1064
              Open 60154 SAUK RV7 115 60157 STCLOUD7 115 1                          -0.04357 -0.00008   -43.0   -40.8
19 -25753.2 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          33.7    19.3  0.00056          0.00055    31.8    17.7
            C:60744 BROOTEN869.0 62827 CROW LK869.0 1    3112
              Open 60744 BROOTEN869.0 62827 CROW LK869.0 1                          -0.12264 -0.00007   -14.9   -13.2
20 -25440.0 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          32.8    19.3  0.00053          0.00055    31.8    17.9
            C:60286 NOBLES 3 345 60287 NOBLES 7 115 C1   1292
              Open 60286 NOBLES 3 345 60287 NOBLES 7 115 C1                         -0.00235  0.00735  -426.7  -613.7
21 -25315.4 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          33.2    19.3  0.00055          0.00055    31.8    17.9
            C:60002 SHERC33G26.0 60160 SHERCO 3 345 1    2895
              Open 60002 SHERC33G26.0 60160 SHERCO 3 345 1                          -0.00158  0.00000  -868.0  -868.0
22 -25025.1 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          35.4    19.3  0.00064          0.00055    31.8    18.1
            C:63219 GRANTCO7 115 63220 ELBOWLK7 115 1    2101
              Open 63219 GRANTCO7 115 63220 ELBOWLK7 115 1                           0.03178  0.00296   112.3    38.2
23 -24997.1 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -26.4   -13.7 -0.00051         -0.00090   -18.3     4.2
            C:62938 OTSEGO 869.0 63020 ELK RIV869.0 1    2013
              Open 62938 OTSEGO 869.0 63020 ELK RIV869.0 1                           0.31429  0.00123   -26.0   -56.8
24 -24863.8 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          33.0    19.3  0.00055          0.00055    31.8    18.2
            C:60001 SHERC32G24.0 60160 SHERCO 3 345 1    2894
              Open 60001 SHERC32G24.0 60160 SHERCO 3 345 1                          -0.00158  0.00000  -711.4  -711.4
25 -24859.2 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          32.9    19.3  0.00055          0.00055    31.8    18.2
            C:60000 SHERC31G24.0 60160 SHERCO 3 345 1    2893
              Open 60000 SHERC31G24.0 60160 SHERCO 3 345 1                          -0.00158  0.00000  -709.8  -709.8
26 -24776.0 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          33.1    19.3  0.00056          0.00055    31.8    18.2
            C:60744 BROOTEN869.0 62826 BANGRTP869.0 1    3111
              Open 60744 BROOTEN869.0 62826 BANGRTP869.0 1                           0.12264  0.00007    10.4     8.8
27 -24766.6 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          32.9    19.3  0.00055          0.00055    31.8    18.2
            C:62527 ELMO   7 115 62531 INMAN  7 115 1    1953
              Open 62527 ELMO   7 115 62531 INMAN  7 115 1                          -0.02371  0.00000   -45.2   -45.2
28 -24675.0 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          32.8    19.3  0.00055          0.00055    31.8    18.3
            C:60156 PYNSVIL7 115 60702 PAYNES1934.5 1    2957
              Open 60156 PYNSVIL7 115 60702 PAYNES1934.5 1                           0.03626  0.00000    28.2    28.2
29 -24624.5 L:60262 EDEN PR3 345 60263 EDEN PR7 115 1         505.2   448.0  0.00232          0.00057   342.4   328.4
            C:705       4                                3745
              Open 60233 PARKERS3 345 60262 EDEN PR3 345 1                          -0.12094 -0.01212   100.5   398.8
              Open 60262 EDEN PR3 345 60263 EDEN PR7 115 2                           0.54988  0.00053   318.3   305.3
30 -24540.6 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          32.9    19.3  0.00056          0.00055    31.8    18.4
            C:60146 GRANCTY7 115 60348 BENCTP7  115 1    1045
              Open 60146 GRANCTY7 115 60348 BENCTP7  115 1                          -0.01101 -0.00060  -100.8   -86.1
31 -24329.2 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          36.4    19.3  0.00070          0.00055    31.8    18.5
            C:63222 ALEXAND7 115 67452 ALEXSS   115 1    2106
              Open 63222 ALEXAND7 115 67452 ALEXSS   115 1                          -0.05201 -0.00296   -88.0   -16.0
32 -24320.9 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          32.9    19.3  0.00056          0.00055    31.8    18.5
            C:60767 WLMSTAP869.0 62826 BANGRTP869.0 1    3131
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              Open 60767 WLMSTAP869.0 62826 BANGRTP869.0 1                          -0.12264 -0.00007    -8.4    -6.8
33 -24242.5 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          32.9    19.3  0.00056          0.00055    31.8    18.5
            C:63369 JAMESTN3 345 66791 CENTER 3 345 1    2201
              Open 63369 JAMESTN3 345 66791 CENTER 3 345 1                          -0.00240 -0.00471  -441.7  -327.4
34 -24190.1 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          34.9    19.3  0.00064          0.00055    31.8    18.5
            C:63220 ELBOWLK7 115 63221 BRANDN 7 115 1    2104
              Open 63220 ELBOWLK7 115 63221 BRANDN 7 115 1                           0.03178  0.00296    95.4    23.8
35 -23501.0 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          33.3    19.3  0.00060          0.00055    31.8    18.9
            C:63314 BIGSTON4 230 63325 BROWNSV4 230 1    2189
              Open 63314 BIGSTON4 230 63325 BROWNSV4 230 1                           0.00760  0.00605   191.8    49.7
36 -23385.3 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1        -129.3   -47.0 -0.00352         -0.00211   -72.7   -23.4
            C:60790 FAIRPRK869.0 60792 WFARBLT869.0 1    1463
              Open 60790 FAIRPRK869.0 60792 WFARBLT869.0 1                           0.85201 -0.00166   -66.5   -27.7
37 -23291.5 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          33.2    19.3  0.00060          0.00055    31.8    19.0
            C:63325 BROWNSV4 230 63327 HANKSON4 230 1    2191
              Open 63325 BROWNSV4 230 63327 HANKSON4 230 1                           0.00760  0.00605   175.4    34.6
38 -23160.9 L:60153 MNTCELO7 115 60269 HASSAN 7 115 1         165.0   140.0  0.00108          0.00086    83.1    63.1
            C:009   2                                    3700
              Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                           0.02655  0.00781   476.3   295.4
              Open 60202 COON CK3 345 60272 MPLEGV23 345 1                           0.00109  0.00000     4.2     4.2
              Open 60114 ELM CRK3 345 60151 MNTCELO3 345 1                          -0.13707  0.01067  -575.5  -822.6
              Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                          -0.09690 -0.01571   221.8   585.7
              Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                           0.03053 -0.00157   390.0   426.4
              Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                          -0.02943  0.00000     0.2     0.2
              Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1     NA
39 -23018.2 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          34.1    19.3  0.00064          0.00055    31.8    19.2
            C:63221 BRANDN 7 115 67452 ALEXSS   115 1    2105
              Open 63221 BRANDN 7 115 67452 ALEXSS   115 1                           0.03178  0.00296    71.7     3.5
40 -22965.7 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          33.9    19.3  0.00063          0.00055    31.8    19.2
            C:63327 HANKSON4 230 63329 WAHPETN4 230 1    2192
              Open 63327 HANKSON4 230 63329 WAHPETN4 230 1                           0.00796  0.01075   257.3    10.5
41 -22869.9 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          35.6    19.3  0.00071          0.00055    31.8    19.3
            C:60717 WAKEFLD869.0 62846 FRHV TP869.0 1    3083
              Open 60717 WAKEFLD869.0 62846 FRHV TP869.0 1                           0.12316  0.00132    30.5     0.3
42 -22813.1 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          31.8    19.3  0.00055
              Base Case
43 -22720.9 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          33.0    19.3  0.00060          0.00055    31.8    19.4
            C:60133 SHEYNNE4 230 63336 AUDUBON4 230 1    1013
              Open 60133 SHEYNNE4 230 63336 AUDUBON4 230 1                           0.00610  0.00860   187.1    -8.3
44 -22702.5 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -28.9   -17.3 -0.00051         -0.00090   -25.8    -5.4
            C:62929 ALBERTV869.0 62949 BLKLKTP869.0 1    2001
              Open 62929 ALBERTV869.0 62949 BLKLKTP869.0 1                          -0.31429 -0.00123     9.8    37.8
45 -22560.5 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          34.4    19.3  0.00067          0.00055    31.8    19.4
            C:SCL-SAK/WAK7                               3676
              Open 60157 STCLOUD7 115 60159 STCTPW 7 115 1                          -0.02555 -0.00461   -34.1    70.0
              Open 60154 SAUK RV7 115 60157 STCLOUD7 115 1                          -0.04013 -0.00008   -43.0   -41.1
46 -22387.1 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          33.4    19.3  0.00063          0.00055    31.8    19.5
            C:63219 GRANTCO7 115 66555 MORRIS 7 115 1    2103
              Open 63219 GRANTCO7 115 66555 MORRIS 7 115 1                          -0.02131 -0.00370   -71.9    11.0
47 -22132.8 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          35.1    19.3  0.00071          0.00055    31.8    19.7
            C:60705 LUXBGTP869.0 62846 FRHV TP869.0 1    3078
              Open 60705 LUXBGTP869.0 62846 FRHV TP869.0 1                          -0.12316 -0.00132   -26.2     3.0
48 -22105.0 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          33.7    19.3  0.00065          0.00055    31.8    19.7
            C:63051 HENNING4 230 63331 FERGSFL4 230 1    2055
              Open 63051 HENNING4 230 63331 FERGSFL4 230 1                          -0.00937 -0.01090  -199.4    41.5
49 -21990.8 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -34.8   -17.3 -0.00080         -0.00090   -25.8    -6.1
            C:62134 ELKR14S869.0 62967 ELKRWS2869.0 1    1778
              Open 62134 ELKR14S869.0 62967 ELKRWS2869.0 1                          -0.13540 -0.00074    66.7    83.1
50 -21904.8 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          34.2    19.3  0.00068          0.00055    31.8    19.8
            C:63329 WAHPETN4 230 63331 FERGSFL4 230 1    2194
              Open 63329 WAHPETN4 230 63331 FERGSFL4 230 1                           0.01197  0.01092   197.4   -41.7
51 -21871.9 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          33.5    19.3  0.00065          0.00055    31.8    19.8
            C:63051 HENNING4 230 63052 INMAN  4 230 1    2054
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              Open 63051 HENNING4 230 63052 INMAN  4 230 1                          0.00937  0.01090   183.2   -55.1
52 -21618.7 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          34.7    19.3  0.00071          0.00055    31.8    20.0
            C:60705 LUXBGTP869.0 62620 WATKINS869.0 1    3076
              Open 60705 LUXBGTP869.0 62620 WATKINS869.0 1                          0.12316  0.00132    23.2    -5.3
53 -21600.7 L:60808 EAGLELK869.0 62351 JMSTWTP869.0 1          83.1    53.7  0.00136          0.00007    30.4    28.8
            C:60650 WILMART869.0 62336 JHNSNTP869.0 1    3043
              Open 60650 WILMART869.0 62336 JHNSNTP869.0 1                          0.53268  0.00242    98.9    46.7
54 -21595.7 L:60208 EDINA  7 115 60263 EDEN PR7 115 1        -380.5  -318.0 -0.00289         -0.00290  -288.5  -226.0
            C:MEL-ALD/CDR7                               3684
              Open 60182 ALDRICH7 115 60227 MEDLAKE7 115 1                          0.62714  0.00000   -25.6   -25.7
              Open 60234 PARKERS7 115 60346 CEDARLK7 115 P1                        -0.62714 -0.00000   121.0   121.1
55 -21559.3 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          30.8    19.3  0.00053          0.00055    31.8    20.0
            C:60152 MNTCELO4 230 63043 ELK RIV4 230 1    1060
              Open 60152 MNTCELO4 230 63043 ELK RIV4 230 1                         -0.00478  0.00333   216.0   144.1
56 -21490.4 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          34.4    19.3  0.00070          0.00055    31.8    20.0
            C:60144 DGLASCO7 115 63222 ALEXAND7 115 1    1039
              Open 60144 DGLASCO7 115 63222 ALEXAND7 115 1                         -0.05201 -0.00296   -49.6    14.0
57 -21415.8 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          30.7    19.3  0.00053          0.00055    31.8    20.1
            C:SHC-CNC/BUL3                               3633
              Open 60160 SHERCO 3 345 60202 COON CK3 345 1                         -0.00120  0.00770   469.4   304.5
              Open 60160 SHERCO 3 345 63031 BUNKER 3 345 1                         -0.00120  0.00766   498.2   334.1
58 -21310.1 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          30.6    19.3  0.00053          0.00055    31.8    20.1
            C:670     1                                  3731
              Open 60160 SHERCO 3 345 60202 COON CK3 345 1                         -0.00119  0.00770   469.4   305.3
              Open 60160 SHERCO 3 345 63031 BUNKER 3 345 1                         -0.00119  0.00766   498.2   334.9
              Open 60202 COON CK3 345 63031 BUNKER 3 345 1                          0.00000 -0.00793  -300.1  -131.1
              Open 60202 COON CK3 345 61487 CNCMID2Y 345 1                         -0.00014 -0.00156   386.3   419.4
              Open 60203 COON CK7 115 61487 CNCMID2Y 345 1                         -0.00068  0.00000     0.2     0.2
              Open 60655 CNCTER2934.5 61487 CNCMID2Y 345 1     NA
              Open 63031 BUNKER 3 345 63046 BUNKER 4 230 1                         -0.00082  0.00000     4.4     4.4
59 -21092.9 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          34.3    19.3  0.00071          0.00055    31.8    20.2
            C:60703 WATKINS869.0 62620 WATKINS869.0 1    3074
              Open 60703 WATKINS869.0 62620 WATKINS869.0 1                         -0.12316 -0.00132   -20.2     7.7
60 -20886.0 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          30.8    19.3  0.00055          0.00055    31.8    20.4
            C:60146 GRANCTY7 115 60161 STREGIS7 115 1    1043
              Open 60146 GRANCTY7 115 60161 STREGIS7 115 1                         -0.01296  0.00000    81.6    81.6
61 -20815.6 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          30.8    19.3  0.00055          0.00055    31.8    20.4
            C:62297 BENTON 869.0 63045 BENTON 4 230 1    3382
              Open 62297 BENTON 869.0 63045 BENTON 4 230 1                          0.01472  0.00013   -71.9   -74.5
62 -20778.9 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          34.1    19.3  0.00071          0.00055    31.8    20.4
            C:60703 WATKINS869.0 60704 KIMBALL869.0 1    1407
              Open 60703 WATKINS869.0 60704 KIMBALL869.0 1                          0.12316  0.00132    18.4    -9.1
63 -20699.4 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          30.4    19.3  0.00054          0.00055    31.8    20.5
            C:665                                        3730
              Open 60152 MNTCELO4 230 63043 ELK RIV4 230 1                         -0.00416  0.00333   216.0   147.0
              Open 62134 ELKR14S869.0 63043 ELK RIV4 230 1                          0.00368  0.00086  -131.4  -149.2
64 -20652.0 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          30.6    19.3  0.00055          0.00055    31.8    20.5
            C:60756 ALBANY 869.0 62830 ALBANY 869.0 1    3121
              Open 60756 ALBANY 869.0 62830 ALBANY 869.0 1                         -0.42991  0.00000     2.8     2.8
65 -20651.3 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -70.2   -47.0 -0.00112         -0.00211   -72.7   -29.1
            C:34006 LAKEFLD3 345 60331 LKFLDXL3 345 1      21
              Open 34006 LAKEFLD3 345 60331 LKFLDXL3 345 1                          0.00719  0.13721   347.7 -2486.0
66 -20437.4 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -73.0   -48.0 -0.00122         -0.00216   -65.1   -21.0
            C:60787 NOFIELD869.0 60801 CNFLSTR869.0 1    1459
              Open 60787 NOFIELD869.0 60801 CNFLSTR869.0 1                          0.50545  0.00185   -15.7   -53.4
67 -20385.9 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          40.5    19.3  0.00104          0.00055    31.8    20.6
            C:60752 BLCKOAK869.0 60754 MELRSMU869.0 1    1433
              Open 60752 BLCKOAK869.0 60754 MELRSMU869.0 1                          0.62927  0.00078    13.8    -2.1
68 -20299.1 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          33.2    19.3  0.00069          0.00055    31.8    20.7
            C:810   C1                                   3770
              Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                         -0.01050 -0.01298  -132.0   131.5
              Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                        -0.00061  0.00000    -0.0    -0.0
69 -20299.1 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          33.2    19.3  0.00069          0.00055    31.8    20.7
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            C:60189 BLK DOG4 230 60190 BLK DOG7 115 C1   1120
              Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                          0.01050  0.01298   132.0  -131.5
70 -20299.1 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          33.2    19.3  0.00069          0.00055    31.8    20.7
            C:60189 BLK DOG4 230 62980 MCLEOD 4 230 1    1121
              Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                         -0.01050 -0.01298  -132.0   131.5
71 -20208.8 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          30.8    19.3  0.00057          0.00055    31.8    20.7
            C:009   7                                    3704
              Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                         -0.00112  0.00781   476.3   318.4
              Open 60202 COON CK3 345 60272 MPLEGV23 345 1                         -0.00117  0.00000     4.2     4.2
              Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                         -0.00189 -0.01571   221.8   539.4
              Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                         -0.00012 -0.00157   390.0   421.7
              Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                         -0.00105  0.00000     0.2     0.2
              Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1     NA
72 -20132.6 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -204.7  -127.9 -0.00381         -0.00474  -150.7   -55.2
            C:60286 NOBLES 3 345 60287 NOBLES 7 115 C1   1292
              Open 60286 NOBLES 3 345 60287 NOBLES 7 115 C1                          0.12650  0.00735  -426.7  -574.7
73 -20125.0 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -24.0   -13.7 -0.00051         -0.00090   -18.3    -0.2
            C:62929 ALBERTV869.0 62938 OTSEGO 869.0 1    2000
              Open 62929 ALBERTV869.0 62938 OTSEGO 869.0 1                           0.31429  0.00123   -18.1   -42.9
74 -20061.5 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -84.9   -47.0 -0.00189         -0.00211   -72.7   -30.4
            C:60106 PR ISLD5 161 63071 SPRNGCK5 161 1    2939
              Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                         -0.08418 -0.00258   145.8   197.5
75 -20061.5 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -84.9   -47.0 -0.00189         -0.00211   -72.7   -30.4
            C:60105 PR ISLD3 345 60106 PR ISLD5 161 1     947
              Open 60105 PR ISLD3 345 60106 PR ISLD5 161 1                         -0.08418 -0.00258   145.8   197.5
76 -19971.1 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          30.5    19.3  0.00056          0.00055    31.8    20.9
            C:009   1                                    3699
              Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                         -0.00121  0.00781   476.3   320.3
              Open 60202 COON CK3 345 60272 MPLEGV23 345 1                         -0.00110  0.00000     4.2     4.2
              Open 60151 MNTCELO3 345 60160 SHERCO 3 345 1                          0.00138  0.01529  -450.2  -755.4
              Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                         -0.00030 -0.00157   390.0   421.3
              Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                         -0.00080  0.00000     0.2     0.2
              Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1     NA
77 -19963.1 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -86.1   -47.0 -0.00196         -0.00211   -72.7   -30.6
            C:SPC-PRI/CTF5                               3685
              Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                         -0.11211 -0.00258   145.8   197.3
              Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                         -0.04610  0.00307   -62.4  -123.5
78 -19936.6 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -86.1   -47.0 -0.00196         -0.00211   -72.7   -30.6
            C:740    1                                   3757
              Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                         -0.04610  0.00307   -62.4  -123.5
              Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                         -0.11211 -0.00258   145.8   197.2
              Open 60103 CANNFLS5 161 60104 CANNFLS7 115 1                          0.06923  0.00000     0.7     0.7
79 -19927.9 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          30.7    19.3  0.00057          0.00055    31.8    20.9
            C:60114 ELM CRK3 345 60151 MNTCELO3 345 1     974
              Open 60114 ELM CRK3 345 60151 MNTCELO3 345 1                          0.00201  0.01067  -575.5  -788.1
80 -19808.4 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          30.3    19.3  0.00056          0.00055    31.8    20.9
            C:60746 GLENWD 869.0 62756 LEVEN  869.0 1    3114
              Open 60746 GLENWD 869.0 62756 LEVEN  869.0 1                          0.12264  0.00007   -12.1   -13.5
81 -19727.0 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          33.3    19.3  0.00071          0.00055    31.8    21.0
            C:60704 KIMBALL869.0 60761 SOUTHVN869.0 1    1408
              Open 60704 KIMBALL869.0 60761 SOUTHVN869.0 1                          0.12316  0.00132    12.3   -13.8
82 -19640.0 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          33.3    19.3  0.00071          0.00055    31.8    21.0
            C:60712 ANNDALE869.0 60761 SOUTHVN869.0 1    1412
              Open 60712 ANNDALE869.0 60761 SOUTHVN869.0 1                         -0.12316 -0.00132   -11.8    14.1
83 -19511.0 L:60208 EDINA  7 115 60263 EDEN PR7 115 1        -374.4  -318.0 -0.00289         -0.00290  -288.5  -232.0
            C:MEL-ALD/SLP7                               3683
              Open 60182 ALDRICH7 115 60227 MEDLAKE7 115 1                          0.62714  0.00000   -25.6   -25.7
              Open 60234 PARKERS7 115 60346 CEDARLK7 115 P1                        -0.62714 -0.00000   121.0   121.1
              Open 60249 STLSPRK7 115 60346 CEDARLK7 115 P1                         0.56226  0.00000    10.7    10.7
84 -19511.0 L:60208 EDINA  7 115 60263 EDEN PR7 115 1        -374.4  -318.0 -0.00289         -0.00290  -288.5  -232.0
            C:SLP-MEL/PKL7                               3679
              Open 60182 ALDRICH7 115 60249 STLSPRK7 115 P1                        -0.62714 -0.00000    25.6    25.7
              Open 60249 STLSPRK7 115 60346 CEDARLK7 115 P1                         0.62714  0.00000  -110.3  -110.3
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                Open 60234 PARKERS7 115 60346 CEDARLK7 115 P1                        -0.06488  0.00000    10.7    10.7
 85 -19270.5 L:60208 EDINA  7 115 60263 EDEN PR7 115 1        -373.7  -318.0 -0.00289         -0.00290  -288.5  -232.7
             C:SLP-MEL/CDR7                                 3680
                Open 60182 ALDRICH7 115 60249 STLSPRK7 115 P1                        -0.62714 -0.00000    25.6    25.7
                Open 60249 STLSPRK7 115 60346 CEDARLK7 115 P1                         0.62714  0.00000  -110.3  -110.3
 86 -19203.9 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -27.1   -17.3 -0.00051         -0.00090   -25.8    -8.6
             C:62935 MAPLELK869.0 62949 BLKLKTP869.0 1    2009
                Open 62935 MAPLELK869.0 62949 BLKLKTP869.0 1                          0.31429  0.00123    -4.2   -27.8
 87 -19195.2 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          33.6    19.3  0.00075          0.00055    31.8    21.3
             C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          0.00173  0.11319  1025.6 -1147.1
 88 -19163.2 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          30.0    19.3  0.00056          0.00055    31.8    21.3
             C:60747 VILLARD869.0 62756 LEVEN  869.0 1    3116
                Open 60747 VILLARD869.0 62756 LEVEN  869.0 1                         -0.12264 -0.00007    15.1    16.3
 89 -19151.4 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          30.6    19.3  0.00059          0.00055    31.8    21.3
             C:62925 DICKNSN7 115 63030 DICKNSN3 345 1    1999
                Open 62925 DICKNSN7 115 63030 DICKNSN3 345 1                          0.00463  0.00833   -274.4   -434.0
 90 -19141.5 L:66203 FARGO  869.0 67000 MAPLE R869.0 1          72.9    41.0  0.00166          0.00002    28.2    27.9
             C:60133 SHEYNNE4 230 66435 FARGO  4 230 1    1014
                Open 60133 SHEYNNE4 230 66435 FARGO  4 230 1                         -0.23498 -0.00701   -190.0    -55.7
 91 -18973.8 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          29.9    19.3  0.00056          0.00055    31.8    21.4
             C:60747 VILLARD869.0 60748 WESTPRT869.0 1    1429
                Open 60747 VILLARD869.0 60748 WESTPRT869.0 1                          0.12264  0.00007   -15.9   -17.2
 92 -18804.6 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          30.6    19.3  0.00060          0.00055    31.8    21.5
             C:60206 CROWRVR7 115 62925 DICKNSN7 115 1    1171
                Open 60206 CROWRVR7 115 62925 DICKNSN7 115 1                          0.00949  0.00542   -130.0   -231.9
 93 -18735.4 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          29.9    19.3  0.00056          0.00055    31.8    21.5
             C:SHC-CNC/ECK3                                 3634
                Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                         -0.00131  0.00781   476.3   329.9
                Open 60114 ELM CRK3 345 60151 MNTCELO3 345 1                          0.00233  0.01067  -575.5  -775.4
 94 -18698.6 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          29.6    19.3  0.00055          0.00055    31.8    21.6
             C:60732 WST CLD869.0 62841 WESTWD 869.0 1    3100
                Open 60732 WST CLD869.0 62841 WESTWD 869.0 1                         -0.18857  0.00000    12.0    12.0
 95 -18580.9 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          29.9    19.3  0.00057          0.00055    31.8    21.6
             C:009   2                                      3700
                Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                         -0.00131  0.00781   476.3   331.2
                Open 60202 COON CK3 345 60272 MPLEGV23 345 1                         -0.00121  0.00000     4.2     4.2
                Open 60114 ELM CRK3 345 60151 MNTCELO3 345 1                          0.00179  0.01067  -575.5  -773.8
                Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                         -0.00075 -0.01571   221.8   513.8
                Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                         -0.00028 -0.00157   390.0   419.2
                Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                         -0.00093  0.00000     0.2     0.2
                Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1     NA
 96 -18405.7 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          30.5    19.3  0.00061          0.00055    31.8    21.7
             C:DKN-CRO/STB7                                 3659
                Open 60206 CROWRVR7 115 62925 DICKNSN7 115 1                          0.00967  0.00542   -130.0   -229.7
                Open 62667 ST BONI7 115 62925 DICKNSN7 115 1                          0.00139  0.00422    -65.0   -142.7
 97 -18403.2 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          30.5    19.3  0.00061          0.00055    31.8    21.7
             C:710   2                                      3747
                Open 60206 CROWRVR7 115 62925 DICKNSN7 115 1                          0.00967  0.00542   -130.0   -229.7
                Open 62667 ST BONI7 115 62925 DICKNSN7 115 1                          0.00149  0.00422    -65.0   -142.7
                Open 60277 WWACNIA7 115 62667 ST BONI7 115 1                         -0.00014  0.00414    -14.7    -90.9
                Open 62667 ST BONI7 115 63021 ST BONI869.0 1                          0.00074  0.00000     0.1     0.1
 98 -18006.8 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          29.3    19.3  0.00056          0.00055    31.8    21.9
             C:60748 WESTPRT869.0 60749 DGLAS C869.0 1    1430
                Open 60748 WESTPRT869.0 60749 DGLAS C869.0 1                          0.12264  0.00007    -20.3    -21.5
 99 -17893.9 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1        -127.1   -66.0 -0.00342         -0.00166   -66.5   -36.8
             C:60791 FARIBLT869.0 60792 WFARBLT869.0 1    1464
                Open 60791 FARIBLT869.0 60792 WFARBLT869.0 1                          0.83431 -0.00211   -72.7   -34.9
100 -17736.7 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          30.6    19.3  0.00064          0.00055    31.8    22.1
             C:60752 BLCKOAK869.0 62847 GROVE  869.0 1    3119
                Open 60752 BLCKOAK869.0 62847 GROVE  869.0 1                         -0.25797 -0.00033     4.9    10.8
101 -17641.7 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -65.7   -47.0 -0.00106         -0.00211   -72.7   -35.5
             C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
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                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                          -0.00749 -0.13974  -926.4  1538.8
102 -17480.3 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -32.7   -17.3 -0.00088         -0.00090   -25.8   -10.1
             C:680                                          3735
                Open 60143 BENTON 7 115 63045 BENTON 4 230 P2                          0.00068  0.00362  -138.3  -201.7
                Open 62297 BENTON 869.0 63045 BENTON 4 230 1                           0.09533  0.00013   -71.9   -74.1
103 -17480.3 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -32.7   -17.3 -0.00088         -0.00090   -25.8   -10.1
             C:680    P2                                    3736
                Open 60143 BENTON 7 115 63045 BENTON 4 230 P2                          0.00068  0.00362  -138.3  -201.7
                Open 62297 BENTON 869.0 63045 BENTON 4 230 1                           0.09533  0.00013   -71.9   -74.1
104 -17422.3 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -32.3   -17.3 -0.00086         -0.00090   -25.8   -10.2
             C:62139 CABLETP869.0 62297 BENTON 869.0 1    1787
                Open 62139 CABLETP869.0 62297 BENTON 869.0 1                           0.15187  0.00024   -42.9   -47.1
105 -17394.5 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -27.7   -17.3 -0.00060         -0.00090   -25.8   -10.2
             C:62125 BECKER 869.0 62939 SILVERC869.0 1    1769
                Open 62125 BECKER 869.0 62939 SILVERC869.0 1                          -0.30521 -0.00099     6.2    23.3
106 -17322.8 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -32.6   -17.3 -0.00088         -0.00090   -25.8   -10.2
             C:62297 BENTON 869.0 63045 BENTON 4 230 1    3382
                Open 62297 BENTON 869.0 63045 BENTON 4 230 1                           0.09530  0.00013   -71.9   -74.1
107 -17068.8 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -27.3   -13.7 -0.00080         -0.00090   -18.3    -3.0
             C:62134 ELKR14S869.0 62967 ELKRWS2869.0 1    1778
                Open 62134 ELKR14S869.0 62967 ELKRWS2869.0 1                          -0.13540 -0.00074    66.7    79.4
108 -16732.2 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          22.2    13.7  0.00051          0.00090    14.0    -1.0
             C:62938 OTSEGO 869.0 63020 ELK RIV869.0 1    2013
                Open 62938 OTSEGO 869.0 63020 ELK RIV869.0 1                          -0.31429  0.00123   -26.0   -46.6
109 -16609.4 L:60790 FAIRPRK869.0 60791 FARIBLT869.0 1         -80.2   -48.0 -0.00194         -0.00050   -22.5   -14.2
             C:60790 FAIRPRK869.0 60792 WFARBLT869.0 1    1463
                Open 60790 FAIRPRK869.0 60792 WFARBLT869.0 1                           0.86772 -0.00166   -66.5   -39.0
110 -16380.2 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -30.5   -17.3 -0.00080         -0.00090   -25.8   -11.1
             C:60142 BENTON 3 345 60160 SHERCO 3 345 1    1034
                Open 60142 BENTON 3 345 60160 SHERCO 3 345 1                           0.01186  0.00789  -394.5  -523.8
111 -16356.6 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -30.4   -17.3 -0.00080         -0.00090   -25.8   -11.1
             C:675                                          3734
                Open 60142 BENTON 3 345 63045 BENTON 4 230 1                           0.00000 -0.00401   200.1   265.7
                Open 60142 BENTON 3 345 60160 SHERCO 3 345 1                           0.01186  0.00789  -394.5  -523.6
                Open 60142 BENTON 3 345 63045 BENTON 4 230 2                           0.01460  0.00000     1.3     1.3
112 -16054.7 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -31.9   -17.3 -0.00091         -0.00090   -25.8   -11.4
             C:665                                          3730
                Open 60152 MNTCELO4 230 63043 ELK RIV4 230 1                          -0.01070  0.00333   216.0   162.4
                Open 62134 ELKR14S869.0 63043 ELK RIV4 230 1                           0.02881  0.00086  -131.4  -145.2
113 -16033.3 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -31.1   -17.3 -0.00086         -0.00090   -25.8   -11.4
             C:62138 BRGGLKS869.0 62139 CABLETP869.0 1    1785
                Open 62138 BRGGLKS869.0 62139 CABLETP869.0 1                           0.15187  0.00024   -35.0   -38.9
114 -15958.8 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -75.4   -47.0 -0.00178         -0.00211   -72.7   -39.0
             C:60833 SPRCRKT869.0 62387 SPRNGCK869.0 1    3184
                Open 60833 SPRCRKT869.0 62387 SPRNGCK869.0 1                           0.25181  0.00130   -10.9   -31.7
115 -15953.5 L:60208 EDINA  7 115 60263 EDEN PR7 115 1        -364.2  -318.0 -0.00290         -0.00290  -288.5  -242.3
             C:60234 PARKERS7 115 60259 BASCRK 7 115 1    1224
                Open 60234 PARKERS7 115 60259 BASCRK 7 115 1                          -0.36001 -0.00000   210.2   210.2
116 -15952.8 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -78.3   -47.0 -0.00197         -0.00211   -72.7   -39.0
             C:60104 CANNFLS7 115 60801 CNFLSTR869.0 1     946
                Open 60104 CANNFLS7 115 60801 CNFLSTR869.0 1                          -0.12659 -0.00113    44.8    62.9
117 -15950.2 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -75.4   -47.0 -0.00178         -0.00211   -72.7   -39.0
             C:60833 SPRCRKT869.0 62384 BLVDMTP869.0 1    3183
                Open 60833 SPRCRKT869.0 62384 BLVDMTP869.0 1                          -0.25181 -0.00130    10.8    31.6
118 -15410.1 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -29.6   -17.3 -0.00080         -0.00090   -25.8   -12.0
             C:62150 E BL TP869.0 62965 ELKRWS1869.0 1    1797
                Open 62150 E BL TP869.0 62965 ELKRWS1869.0 1                           0.13540  0.00074   -28.0   -39.5
119 -15375.5 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -29.5   -17.3 -0.00080         -0.00090   -25.8   -12.0
             C:62100 BIG LAK869.0 62150 E BL TP869.0 1    1734
                Open 62100 BIG LAK869.0 62150 E BL TP869.0 1                           0.13540  0.00074   -27.8   -39.2
120 -15170.2 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -31.0   -17.3 -0.00091         -0.00090   -25.8   -12.2
             C:60162 WAKEFLD7 115 60717 WAKEFLD869.0 1    1080
                Open 60162 WAKEFLD7 115 60717 WAKEFLD869.0 1                          -0.10122  0.00009    52.0    50.7
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121 -15052.5 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -196.7  -127.9 -0.00457         -0.00474  -150.7   -79.3
             C: 6001 YANKEE 7 115 66337 WHITE2 7 115 1       2
               Open  6001 YANKEE 7 115 66337 WHITE2 7 115 1                          -0.14603 -0.00116   315.3   332.8
122 -15021.8 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -73.7   -47.0 -0.00178         -0.00211   -72.7   -41.0
             C:60818 ZUMBRTA869.0 62380 WELLSCK869.0 1    3169
               Open 60818 ZUMBRTA869.0 62380 WELLSCK869.0 1                           0.25181  0.00130    -4.3   -23.8
123 -15011.2 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -21.3   -13.7 -0.00051         -0.00090   -18.3    -4.8
             C:62929 ALBERTV869.0 62949 BLKLKTP869.0 1    2001
               Open 62929 ALBERTV869.0 62949 BLKLKTP869.0 1                          -0.31429 -0.00123     9.8    28.3
124 -14983.8 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -30.2   -17.3 -0.00086         -0.00090   -25.8   -12.3
             C:62122 WESTEND869.0 62138 BRGGLKS869.0 1    1765
               Open 62122 WESTEND869.0 62138 BRGGLKS869.0 1                           0.15187  0.00024   -29.0   -32.7
125 -14876.0 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -195.9  -127.9 -0.00457         -0.00474  -150.7   -80.1
             C:66537 WHITE  3 345 66337 WHITE2 7 115 P2   2311
               Open 66537 WHITE  3 345 66337 WHITE2 7 115 P2                          0.14603  0.00116  -309.8  -327.1
126 -14750.8 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -66.0   -48.0 -0.00122         -0.00216   -58.1   -26.3
             C:60787 NOFIELD869.0 60801 CNFLSTR869.0 1    1459
               Open 60787 NOFIELD869.0 60801 CNFLSTR869.0 1                           0.50545  0.00185   -15.7   -42.9
127 -14670.0 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -74.8   -47.0 -0.00190         -0.00211   -72.7   -41.7
             C:60982 ALMA   869.0 68874 ALMA 8  69.0 1    3254
               Open 60982 ALMA   869.0 68874 ALMA 8  69.0 1                           0.05942  0.00359   -35.8   -88.5
128 -14600.0 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -74.7   -47.0 -0.00190         -0.00211   -72.7   -41.9
             C:60982 ALMA   869.0 60983 NELSON 869.0 1    1587
               Open 60982 ALMA   869.0 60983 NELSON 869.0 1                          -0.05942 -0.00359    33.5    86.0
129 -14544.8 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -29.9   -17.3 -0.00087         -0.00090   -25.8   -12.7
             C:62134 ELKR14S869.0 63043 ELK RIV4 230 1    1781
               Open 62134 ELKR14S869.0 63043 ELK RIV4 230 1                           0.03174  0.00086  -131.4  -143.9
130 -14379.6 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -62.9   -47.0 -0.00111         -0.00211   -72.7   -42.4
             C:60818 ZUMBRTA869.0 60819 CHERYTP869.0 1    1480
               Open 60818 ZUMBRTA869.0 60819 CHERYTP869.0 1                          -0.62236 -0.00161   -15.7     7.5
131 -14368.7 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -74.2   -47.0 -0.00190         -0.00211   -72.7   -42.4
             C:60825 WABASHA869.0 60983 NELSON 869.0 1    1486
               Open 60825 WABASHA869.0 60983 NELSON 869.0 1                           0.05942  0.00359   -26.2   -77.8
132 -14302.8 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -74.3   -47.0 -0.00191         -0.00211   -72.7   -42.5
             C:60787 NOFIELD869.0 60801 CNFLSTR869.0 1    1459
               Open 60787 NOFIELD869.0 60801 CNFLSTR869.0 1                           0.10653  0.00185   -15.7   -42.1
133 -14052.4 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -76.1   -47.0 -0.00207         -0.00211   -72.7   -43.0
             C:60217 INVRHLS3 345 60218 INVRHLS7 115 1    1197
               Open 60217 INVRHLS3 345 60218 INVRHLS7 115 1                          -0.01091 -0.00356   312.4   362.5
134 -13854.3 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -75.2   -47.0 -0.00204         -0.00211   -72.7   -43.5
             C:60801 CNFLSTR869.0 60802 CANFLS 869.0 1    1473
               Open 60801 CNFLSTR869.0 60802 CANFLS 869.0 1                          -0.23883 -0.00031    10.5    14.8
135 -13830.4 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -35.6   -17.3 -0.00132         -0.00090   -25.8   -13.4
             C:60717 WAKEFLD869.0 62846 FRHV TP869.0 1    3083
               Open 60717 WAKEFLD869.0 62846 FRHV TP869.0 1                          -0.32182  0.00132    30.5    12.2
136 -13813.3 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -76.1   -47.0 -0.00211         -0.00211   -72.7   -43.5
             C:60002 SHERC33G26.0 60160 SHERCO 3 345 1    2895
               Open 60002 SHERC33G26.0 60160 SHERCO 3 345 1                           0.00397  0.00000  -868.0  -868.0
137 -13737.4 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -74.6   -47.0 -0.00201         -0.00211   -72.7   -43.7
             C:60103 CANNFLS5 161 63071 SPRNGCK5 161 1    2937
               Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                           0.03150  0.00307   -62.4  -104.5
138 -13734.4 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -76.0   -47.0 -0.00211         -0.00211   -72.7   -43.7
             C:60003 PR IS31G20.0 60105 PR ISLD3 345 1    2896
               Open 60003 PR IS31G20.0 60105 PR ISLD3 345 1                           0.00618  0.00000  -531.4  -531.4
139 -13725.7 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -74.6   -47.0 -0.00201         -0.00211   -72.7   -43.7
             C:60103 CANNFLS5 161 60104 CANNFLS7 115 1     945
               Open 60103 CANNFLS5 161 60104 CANNFLS7 115 1                          -0.03150 -0.00307    61.6   103.7
140 -13716.2 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -74.6   -47.0 -0.00201         -0.00211   -72.7   -43.8
             C:740    2                                   3758
               Open 60103 CANNFLS5 161 60104 CANNFLS7 115 1                          -0.03150 -0.00307    61.6   103.6
               Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                           0.02564  0.00000     0.7     0.7
141 -13693.5 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -75.9   -47.0 -0.00211         -0.00211   -72.7   -43.8
             C:60004 PR IS32G20.0 60105 PR ISLD3 345 1    2897
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                Open 60004 PR IS32G20.0 60105 PR ISLD3 345 1                          0.00618  0.00000  -517.4  -517.4
142 -13541.8 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -70.5   -47.0 -0.00173         -0.00211   -72.7   -44.1
             C:60805 WATRVIL869.0 62679 ELYSNTP869.0 1    3154
                Open 60805 WATRVIL869.0 62679 ELYSNTP869.0 1                         -0.11878 -0.00315   -18.4    24.2
143 -13536.0 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -62.3   -48.0 -0.00106         -0.00216   -65.1   -35.9
             C:34006 LAKEFLD3 345 60331 LKFLDXL3 345 1      21
                Open 34006 LAKEFLD3 345 60331 LKFLDXL3 345 1                          0.00802  0.13721   347.7 -1509.7
144 -13531.1 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -75.8   -47.0 -0.00213         -0.00211   -72.7   -44.1
             C:60905 FRMNGTN869.0 62259 LKMARN 869.0 1    3209
                Open 60905 FRMNGTN869.0 62259 LKMARN 869.0 1                          0.08926 -0.00024   -35.3   -32.0
145 -13518.0 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -75.5   -47.0 -0.00211         -0.00211   -72.7   -44.2
             C:60001 SHERC32G24.0 60160 SHERCO 3 345 1    2894
                Open 60001 SHERC32G24.0 60160 SHERCO 3 345 1                          0.00397  0.00000  -711.4  -711.4
146 -13515.0 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -75.5   -47.0 -0.00211         -0.00211   -72.7   -44.2
             C:60000 SHERC31G24.0 60160 SHERCO 3 345 1    2893
                Open 60000 SHERC31G24.0 60160 SHERCO 3 345 1                          0.00397  0.00000  -709.8  -709.8
147 -13499.4 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -179.4  -127.9 -0.00381         -0.00474  -150.7   -86.7
             C:60287 NOBLES 7 115 60369 FENTON 7 115 C1   1293
                Open 60287 NOBLES 7 115 60369 FENTON 7 115 C1                         0.12650  0.00735  -226.8  -326.0
148 -13472.5 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -76.1   -47.0 -0.00216         -0.00211   -72.7   -44.3
             C:60342 WHAST  7 115 62258 WHASTNG869.0 1    3032
                Open 60342 WHAST  7 115 62258 WHASTNG869.0 1                         -0.06828  0.00078    50.6    40.0
149 -13453.4 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -75.4   -47.0 -0.00211         -0.00211   -72.7   -44.3
             C:60006 KING 31G20.0 60186 AS KING3 345 1    2899
                Open 60006 KING 31G20.0 60186 AS KING3 345 1                          0.00467  0.00000  -576.7  -576.7
150 -13359.1 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -29.3   -17.3 -0.00090         -0.00090   -25.8   -13.8
             C:62986 HUTCHMN869.0 62988 HTCHHTI869.0 1    2031
                Open 62986 HUTCHMN869.0 62988 HTCHHTI869.0 1                         -0.08394  0.00000    41.7    41.7
151 -13325.8 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -74.1   -47.0 -0.00204         -0.00211   -72.7   -44.6
             C:60802 CANFLS 869.0 62390 SCANNON869.0 1    3149
                Open 60802 CANFLS 869.0 62390 SCANNON869.0 1                         -0.23883 -0.00031     6.0    10.1
152 -13320.7 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -70.1   -47.0 -0.00173         -0.00211   -72.7   -44.6
             C:60808 EAGLELK869.0 62679 ELYSNTP869.0 1    3158
                Open 60808 EAGLELK869.0 62679 ELYSNTP869.0 1                          0.11878  0.00315    21.6   -20.3
153 -13299.8 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -76.9   -47.0 -0.00225         -0.00211   -72.7   -44.6
             C:IVH-BLL/RRK3                               3646
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.01322  0.04835   323.7  -319.3
                Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                          0.00968  0.05191     9.8  -680.6
154 -13299.8 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -76.9   -47.0 -0.00225         -0.00211   -72.7   -44.6
             C:700    2                                   3741
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.01322  0.04835   323.7  -319.3
                Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                          0.00968  0.05191     9.8  -680.6
155 -13269.8 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -75.0   -47.0 -0.00211         -0.00211   -72.7   -44.7
             C:60005 MNTCE31G22.0 60151 MNTCELO3 345 1    2898
                Open 60005 MNTCE31G22.0 60151 MNTCELO3 345 1                          0.00392  0.00000  -588.5  -588.5
156 -13245.2 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -29.2   -17.3 -0.00090         -0.00090   -25.8   -13.9
             C:60002 SHERC33G26.0 60160 SHERCO 3 345 1    2895
                Open 60002 SHERC33G26.0 60160 SHERCO 3 345 1                          0.00392  0.00000  -868.0  -868.0
157 -13224.4 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -71.5   -47.0 -0.00185         -0.00211   -72.7   -44.8
             C:050    1                                   3718
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00187  0.06345   376.0  -463.1
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.00204 -0.06709  -241.0   646.3
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          0.00000 -0.00187    64.8    89.5
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                         -0.00058 -0.00300     0.0    39.7
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                         -0.00035 -0.00148   -22.1    -2.5
158 -13200.3 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -71.5   -47.0 -0.00186         -0.00211   -72.7   -44.8
             C:050    2                                   3719
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00188  0.06345   376.0  -461.5
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.00200 -0.06709  -241.0   644.7
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          0.00000 -0.00187    64.8    89.5
159 -13078.4 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -27.7   -17.3 -0.00080         -0.00090   -25.8   -14.0
             C:62100 BIG LAK869.0 62142 REMMLTP869.0 1    1733
                Open 62100 BIG LAK869.0 62142 REMMLTP869.0 1                         -0.13540 -0.00074    14.3    24.0
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160 -13071.9 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -74.4   -47.0 -0.00209         -0.00211   -72.7   -45.1
             C:60218 INVRHLS7 115 60223 KOCHREF7 115 1    1200
               Open 60218 INVRHLS7 115 60223 KOCHREF7 115 1                          -0.00810 -0.00190   208.2   233.1
161 -13039.1 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -25.2   -13.7 -0.00088         -0.00090   -18.3    -6.6
             C:680    P2                                  3736
               Open 60143 BENTON 7 115 63045 BENTON 4 230 P2                          0.00068  0.00362  -138.3  -185.6
               Open 62297 BENTON 869.0 63045 BENTON 4 230 1                           0.09533  0.00013   -71.9   -73.5
162 -13039.1 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -25.2   -13.7 -0.00088         -0.00090   -18.3    -6.6
             C:680                                       3735
               Open 60143 BENTON 7 115 63045 BENTON 4 230 P2                          0.00068  0.00362  -138.3  -185.6
               Open 62297 BENTON 869.0 63045 BENTON 4 230 1                           0.09533  0.00013   -71.9   -73.5
163 -12906.9 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -28.7   -17.3 -0.00089         -0.00090   -25.8   -14.2
             C:60151 MNTCELO3 345 60152 MNTCELO4 230 1    1057
               Open 60151 MNTCELO3 345 60152 MNTCELO4 230 1                          -0.01145 -0.00093   258.5   270.5
164 -12894.0 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -25.1   -13.7 -0.00088         -0.00090   -18.3    -6.7
             C:62297 BENTON 869.0 63045 BENTON 4 230 1    3382
               Open 62297 BENTON 869.0 63045 BENTON 4 230 1                           0.09530  0.00013   -71.9   -73.5
165 -12866.3 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -24.8   -13.7 -0.00086         -0.00090   -18.3    -6.7
             C:62139 CABLETP869.0 62297 BENTON 869.0 1    1787
               Open 62139 CABLETP869.0 62297 BENTON 869.0 1                           0.15187  0.00024   -42.9   -46.0
166 -12841.9 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -61.2   -47.0 -0.00111         -0.00211   -72.7   -45.6
             C:60796 KENYON 869.0 60819 CHERYTP869.0 1    1469
               Open 60796 KENYON 869.0 60819 CHERYTP869.0 1                           0.62236  0.00161    18.4    -2.3
167 -12793.6 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -34.2   -17.3 -0.00132         -0.00090   -25.8   -14.3
             C:60705 LUXBGTP869.0 62846 FRHV TP869.0 1    3078
               Open 60705 LUXBGTP869.0 62846 FRHV TP869.0 1                           0.32182 -0.00132   -26.2    -9.3
168 -12753.0 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -73.9   -47.0 -0.00211         -0.00211   -72.7   -45.8
             C:60014 BLK D74G18.0 60200 BLK DG27 115 1    2907
               Open 60014 BLK D74G18.0 60200 BLK DG27 115 1                           0.00708  0.00000  -171.7  -171.7
169 -12748.3 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -74.0   -47.0 -0.00212         -0.00211   -72.7   -45.8
             C:WEH-CHE/HAS7                              3664
               Open 60201 CHEMOLT7 115 60342 WHAST  7 115 1                          -0.01099 -0.00077    22.7    32.5
               Open 60915 HASTING869.0 62258 WHASTNG869.0 1                           0.03005 -0.00070   -37.1   -28.2
170 -12733.0 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -71.7   -47.0 -0.00194         -0.00211   -72.7   -45.8
             C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
               Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.00271  0.06345   376.0  -431.9
171 -12689.9 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -73.8   -47.0 -0.00211         -0.00211   -72.7   -45.9
             C:60218 INVRHLS7 115 61478 INV TR1Y 115 1    1202
               Open 60218 INVRHLS7 115 61478 INV TR1Y 115 1                           0.00940  0.00000  -115.0  -115.0
172 -12679.6 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -70.5   -47.0 -0.00185         -0.00211   -72.7   -45.9
             C:60110 WILMART7 115 60830 EASTWD18 115 P1    968
               Open 60110 WILMART7 115 60830 EASTWD18 115 P1                          0.01722  0.01501   128.8   -61.6
173 -12674.5 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -73.7   -47.0 -0.00211         -0.00211   -72.7   -46.0
             C:60008 RIVRS78G22.0 60240 RIVRSID7 115 1    2901
               Open 60008 RIVRS78G22.0 60240 RIVRSID7 115 1                           0.00460  0.00000  -228.0  -228.0
174 -12659.7 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -73.4   -48.0 -0.00201         -0.00216   -65.1   -37.8
             C:60106 PR ISLD5 161 63071 SPRNGCK5 161 1    2939
               Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                          -0.05730 -0.00258   145.8   178.4
175 -12659.7 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -73.4   -48.0 -0.00201         -0.00216   -65.1   -37.8
             C:60105 PR ISLD3 345 60106 PR ISLD5 161 1     947
               Open 60105 PR ISLD3 345 60106 PR ISLD5 161 1                          -0.05730 -0.00258   145.8   178.4
176 -12638.3 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -74.0   -47.0 -0.00213         -0.00211   -72.7   -46.0
             C:60915 HASTING869.0 62258 WHASTNG869.0 1    3211
               Open 60915 HASTING869.0 62258 WHASTNG869.0 1                           0.03440 -0.00070   -37.1   -28.3
177 -12584.4 L:60208 EDINA  7 115 60263 EDEN PR7 115 1        -354.4  -318.0 -0.00290         -0.00290  -288.5  -252.1
             C:60227 MEDLAKE7 115 60259 BASCRK 7 115 1    1214
               Open 60227 MEDLAKE7 115 60259 BASCRK 7 115 1                           0.36001  0.00000  -183.1  -183.1
178 -12567.1 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -72.7   -48.0 -0.00197         -0.00216   -65.1   -38.0
             C:SPC-PRI/CTF5                              3685
               Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                          -0.04135 -0.00258   145.8   178.2
               Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                           0.02632  0.00307   -62.4  -100.9
179 -12560.8 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -28.6   -17.3 -0.00090         -0.00090   -25.8   -14.5
             C:60001 SHERC32G24.0 60160 SHERCO 3 345 1    2894
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                Open 60001 SHERC32G24.0 60160 SHERCO 3 345 1                          0.00392  0.00000  -711.4  -711.4
180 -12553.9 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -28.6   -17.3 -0.00090         -0.00090   -25.8   -14.5
             C:60000 SHERC31G24.0 60160 SHERCO 3 345 1    2893
                Open 60000 SHERC31G24.0 60160 SHERCO 3 345 1                          0.00392  0.00000  -709.8  -709.8
181 -12539.6 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -72.7   -48.0 -0.00197         -0.00216   -65.1   -38.0
             C:740    1                                   3757
                Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                          0.02632  0.00307   -62.4  -100.8
                Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                         -0.04135 -0.00258   145.8   178.1
                Open 60103 CANNFLS5 161 60104 CANNFLS7 115 1                          0.07231  0.00000     0.7     0.7
182 -12504.8 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -73.9   -47.0 -0.00215         -0.00211   -72.7   -46.3
             C:705       1                                   3742
                Open 60192 BLUE LK3 345 60233 PARKERS3 345 1                         -0.00166  0.01268   140.3   -18.3
                Open 60192 BLUE LK3 345 60262 EDEN PR3 345 1                         -0.00169  0.01321   562.3   397.1
                Open 60262 EDEN PR3 345 60263 EDEN PR7 115 1                         -0.00015  0.00057   342.4   335.3
183 -12485.7 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -73.9   -47.0 -0.00215         -0.00211   -72.7   -46.3
             C:BLL-EDP/PKL3                                  3640
                Open 60192 BLUE LK3 345 60262 EDEN PR3 345 1                         -0.00171  0.01321   562.3   397.4
                Open 60192 BLUE LK3 345 60233 PARKERS3 345 1                         -0.00168  0.01268   140.3   -18.0
184 -12474.6 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -29.1   -17.3 -0.00095         -0.00090   -25.8   -14.6
             C:60152 MNTCELO4 230 63043 ELK RIV4 230 1    1060
                Open 60152 MNTCELO4 230 63043 ELK RIV4 230 1                         -0.01554  0.00333   216.0   174.4
185 -12459.7 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -28.4   -17.3 -0.00089         -0.00090   -25.8   -14.6
             C:63031 BUNKER 3 345 63046 BUNKER 4 230 1    2037
                Open 63031 BUNKER 3 345 63046 BUNKER 4 230 1                         -0.01369 -0.00026   193.8   197.1
186 -12432.6 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -73.9   -47.0 -0.00216         -0.00211   -72.7   -46.5
             C:60826 TRAVRSE869.0 62350 TRAVERS869.0 1    3177
                Open 60826 TRAVRSE869.0 62350 TRAVERS869.0 1                         -0.02130  0.00249    56.2    25.3
187 -12423.8 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -71.5   -47.0 -0.00197         -0.00211   -72.7   -46.5
             C:60113 DOME   7 115 60830 EASTWD18 115 P1    972
                Open 60113 DOME   7 115 60830 EASTWD18 115 P1                          0.01289  0.01053    90.4   -40.4
188 -12413.7 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -71.6   -47.0 -0.00198         -0.00211   -72.7   -46.5
             C:60108 WILMART3 345 60110 WILMART7 115 2     957
                Open 60108 WILMART3 345 60110 WILMART7 115 2                          0.00958  0.01343   114.7   -52.1
189 -12410.4 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -71.5   -47.0 -0.00197         -0.00211   -72.7   -46.5
             C:60110 WILMART7 115 60113 DOME   7 115 C1    963
                Open 60110 WILMART7 115 60113 DOME   7 115 C1                          0.01289  0.01053    92.5   -38.2
190 -12409.5 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -74.0   -47.0 -0.00218         -0.00211   -72.7   -46.5
             C:60276 AIRLAKE7 115 62234 LKMARN 7 115 1    2991
                Open 60276 AIRLAKE7 115 62234 LKMARN 7 115 1                          0.02055 -0.00337   -65.7   -23.9
191 -12408.2 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -74.7   -47.0 -0.00223         -0.00211   -72.7   -46.5
             C:61906 MAPLE LF 161 61948 BYRON  5 161 1    3374
                Open 61906 MAPLE LF 161 61948 BYRON  5 161 1                          0.01028 -0.01198  -196.1   -47.4
192 -12402.3 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -71.6   -47.0 -0.00199         -0.00211   -72.7   -46.5
             C:60108 WILMART3 345 60110 WILMART7 115 1     956
                Open 60108 WILMART3 345 60110 WILMART7 115 1                          0.00941  0.01312   112.2   -50.5
193 -12377.9 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -74.8   -47.0 -0.00225         -0.00211   -72.7   -46.6
             C:60110 WILMART7 115 60194 CARVRCO7 115 1     964
                Open 60110 WILMART7 115 60194 CARVRCO7 115 1                         -0.01586  0.00886   136.3    26.7
194 -12366.8 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -73.7   -47.0 -0.00216         -0.00211   -72.7   -46.6
             C:022       1                                   3706
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                         -0.00122  0.02473   273.5   -32.4
                Open 60221 KOLMNLK3 345 60251 TERMINL3 345 1                         -0.00005 -0.02272   209.4   490.3
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                         -0.00128  0.01927   549.2   310.9
                Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                         -0.00009  0.00023   225.9   223.0
                Open 60251 TERMINL3 345 61492 TERMID1Y 345 1     NA
                Open 60252 TERMINL7 115 61492 TERMID1Y 345 1                          0.00000  0.00172  -377.2  -398.4
                Open 61187 TERTER1934.5 61492 TERMID1Y 345 1     NA
                Open 60251 TERMINL3 345 61491 TERMID2Y 345 1     NA
                Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                          0.00489  0.00000     0.7     0.7
                Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
195 -12354.3 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -73.7   -47.0 -0.00216         -0.00211   -72.7   -46.6
             C:022       3                                   3707
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                         -0.00124  0.02473   273.5   -32.1
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                Open 60202 COON CK3 345 60251 TERMINL3 345 1                          -0.00125  0.01927   549.2   311.2
                Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                          -0.00008  0.00023   225.9   223.0
                Open 60251 TERMINL3 345 61491 TERMID2Y 345 1                          -0.00002 -0.00173   381.0   402.4
                Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                           0.00487  0.00000     0.2     0.2
                Open 61188 TERTER2934.5 61491 TERMID2Y 345 1      NA
196 -12343.4 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1          -73.7   -47.0 -0.00216         -0.00211   -72.7   -46.6
             C:CNC-KOL/TER3                                3636
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          -0.00125  0.02473   273.5   -31.8
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                          -0.00125  0.01927   549.2   311.4
197 -12311.6 L:60827 LKEMILY869.0 62681 CLVLAND869.0 1          -64.7   -48.0 -0.00136         -0.00007   -12.1   -11.2
             C:60650 WILMART869.0 62336 JHNSNTP869.0 1     3043
                Open 60650 WILMART869.0 62336 JHNSNTP869.0 1                          -0.53268  0.00242    98.9    69.2
198 -12294.0 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1          -27.9   -17.3 -0.00086         -0.00090   -25.8   -14.8
             C:62122 WESTEND869.0 62125 BECKER 869.0 1     1764
                Open 62122 WESTEND869.0 62125 BECKER 869.0 1                          -0.15187 -0.00024    13.8    16.8
199 -12214.7 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1          -73.8   -47.0 -0.00219         -0.00211   -72.7   -46.9
             C:62980 MCLEOD 4 230 63054 PANTHER4 230 1     3396
                Open 62980 MCLEOD 4 230 63054 PANTHER4 230 1                           0.00495 -0.01700  -223.7   -16.0
200 -12199.4 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1          -28.2   -17.3 -0.00090         -0.00090   -25.8   -14.8
             C:62984 HUTCHPT869.0 62988 HTCHHTI869.0 1     2028
                Open 62984 HUTCHPT869.0 62988 HTCHHTI869.0 1                          -0.08394  0.00000    29.3    29.3
201 -12191.8 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1          -27.4   -17.3 -0.00083         -0.00090   -25.8   -14.8
             C:660                                         3729
                Open 63043 ELK RIV4 230 63046 BUNKER 4 230 1                           0.01240  0.00471     6.2   -51.2
                Open 62134 ELKR14S869.0 63043 ELK RIV4 230 2                           0.02169  0.00051   -77.8   -84.0
202 -12177.0 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1          -72.7   -47.0 -0.00211
                Base Case
203 -12070.6 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1          -33.3   -17.3 -0.00132         -0.00090   -25.8   -15.0
             C:60705 LUXBGTP869.0 62620 WATKINS869.0 1     3076
                Open 60705 LUXBGTP869.0 62620 WATKINS869.0 1                          -0.32182  0.00132    23.2     7.3
204 -12051.6 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1          -71.7   -47.0 -0.00205         -0.00211   -72.7   -47.3
             C:60905 FRMNGTN869.0 62256 CSTL RK869.0 1     3208
                Open 60905 FRMNGTN869.0 62256 CSTL RK869.0 1                          -0.19701 -0.00031    -5.1    -1.3
205 -11931.0 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1          -71.7   -48.0 -0.00199         -0.00216   -65.1   -39.3
             C:60104 CANNFLS7 115 60801 CNFLSTR869.0 1      946
                Open 60104 CANNFLS7 115 60801 CNFLSTR869.0 1                          -0.14830 -0.00113    44.8    58.3
206 -11911.7 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1          -28.0   -17.3 -0.00090         -0.00090   -25.8   -15.1
             C:60005 MNTCE31G22.0 60151 MNTCELO3 345 1     2898
                Open 60005 MNTCE31G22.0 60151 MNTCELO3 345 1                           0.00375  0.00000  -588.5  -588.5
207 -11860.0 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1           19.7    13.7  0.00051          0.00090    14.0     3.4
             C:62929 ALBERTV869.0 62938 OTSEGO 869.0 1     2000
                Open 62929 ALBERTV869.0 62938 OTSEGO 869.0 1                          -0.31429  0.00123   -18.1   -32.7
208 -11841.1 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1          -24.4   -17.3 -0.00060         -0.00090   -25.8   -15.2
             C:62939 SILVERC869.0 62944 GOOSETP869.0 1     2014
                Open 62939 SILVERC869.0 62944 GOOSETP869.0 1                          -0.30521 -0.00099    -4.7     7.0
209 -11792.4 L:60262 EDEN PR3 345 60263 EDEN PR7 115 1          542.5   448.0  0.00801          0.00057   342.4   335.7
             C:705       2                                 3743
                Open 60192 BLUE LK3 345 60233 PARKERS3 345 1                           0.26568  0.01268   140.3    -9.2
                Open 60233 PARKERS3 345 60262 EDEN PR3 345 1                          -0.30997 -0.01212   100.5   243.4
                Open 60262 EDEN PR3 345 60263 EDEN PR7 115 2                           0.60959  0.00053   318.3   312.0
210 -11779.6 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1           23.1    13.7  0.00080          0.00090    14.0     3.5
             C:62134 ELKR14S869.0 62967 ELKRWS2869.0 1     1778
                Open 62134 ELKR14S869.0 62967 ELKRWS2869.0 1                           0.13540 -0.00074    66.7    75.5
211 -11768.8 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1          -27.7   -17.3 -0.00088         -0.00090   -25.8   -15.2
             C:62134 ELKR14S869.0 63043 ELK RIV4 230 2     1782
                Open 62134 ELKR14S869.0 63043 ELK RIV4 230 2                           0.02479  0.00051   -77.8   -83.8
212 -11737.6 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1          -24.4   -13.7 -0.00091         -0.00090   -18.3    -7.7
             C:665                                         3730
                Open 60152 MNTCELO4 230 63043 ELK RIV4 230 1                          -0.01070  0.00333   216.0   176.8
                Open 62134 ELKR14S869.0 63043 ELK RIV4 230 1                           0.02881  0.00086  -131.4  -141.5
213 -11716.3 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1          -69.9   -47.0 -0.00195         -0.00211   -72.7   -48.0
             C:60808 EAGLELK869.0 62347 EAGLELK869.0 1     3156
                Open 60808 EAGLELK869.0 62347 EAGLELK869.0 1                          -0.04891 -0.00322   -57.6   -19.9
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214 -11687.6 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -71.6   -47.0 -0.00211         -0.00211   -72.7   -48.0
             C:60821 MAZEPPA869.0 62382 LENA TP869.0 1    3173
               Open 60821 MAZEPPA869.0 62382 LENA TP869.0 1                          0.20033  0.00000     5.2     5.2
215 -11617.5 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -69.7   -47.0 -0.00195         -0.00211   -72.7   -48.2
             C:60831 EASTWD2869.0 62347 EAGLELK869.0 1    3181
               Open 60831 EASTWD2869.0 62347 EAGLELK869.0 1                          0.04891  0.00322    61.5    24.1
216 -11617.1 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -71.6   -47.0 -0.00211         -0.00211   -72.7   -48.2
             C:60803 MIESTAP869.0 62238 MIESVIL869.0 1    3150
               Open 60803 MIESTAP869.0 62238 MIESVIL869.0 1                          0.06733 -0.00008    16.6    17.5
217 -11608.9 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -74.3   -47.0 -0.00235         -0.00211   -72.7   -48.2
             C:60192 BLUE LK3 345 60217 INVRHLS3 345 1    1126
               Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.00504  0.04835   323.7  -237.6
218 -11575.8 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -27.4   -17.3 -0.00088         -0.00090   -25.8   -15.4
             C:670     2                                  3732
               Open 60160 SHERCO 3 345 63031 BUNKER 3 345 1                         -0.01206  0.00766   498.2   409.5
               Open 60202 COON CK3 345 63031 BUNKER 3 345 1                         -0.01423 -0.00793  -300.1  -208.3
               Open 63031 BUNKER 3 345 63046 BUNKER 4 230 1                          0.01613  0.00000     4.4     4.4
219 -11553.2 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -59.8   -47.0 -0.00111         -0.00211   -72.7   -48.3
             C:60796 KENYON 869.0 60797 KENYNTP869.0 1    1468
               Open 60796 KENYON 869.0 60797 KENYNTP869.0 1                         -0.62236 -0.00161   -20.7    -2.1
220 -11517.6 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -31.6   -17.3 -0.00124         -0.00090   -25.8   -15.4
             C:60356 PAYNES 4 230 63050 WILLMAR4 230 C1   1366
               Open 60356 PAYNES 4 230 63050 WILLMAR4 230 C1                         0.03360 -0.01032  -174.0   -55.1
221 -11517.6 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -31.6   -17.3 -0.00124         -0.00090   -25.8   -15.4
             C:60156 PYNSVIL7 115 60356 PAYNES 4 230 C1   1069
               Open 60156 PYNSVIL7 115 60356 PAYNES 4 230 C1                         0.03360 -0.01032  -174.0   -55.1
222 -11512.6 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -19.6   -13.7 -0.00051         -0.00090   -18.3    -7.9
             C:62935 MAPLELK869.0 62949 BLKLKTP869.0 1    2009
               Open 62935 MAPLELK869.0 62949 BLKLKTP869.0 1                          0.31429  0.00123    -4.2   -18.3
223 -11501.8 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -22.9   -13.7 -0.00080         -0.00090   -18.3    -7.9
             C:60142 BENTON 3 345 60160 SHERCO 3 345 1    1034
               Open 60142 BENTON 3 345 60160 SHERCO 3 345 1                          0.01186  0.00789  -394.5  -485.3
224 -11478.2 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -22.9   -13.7 -0.00080         -0.00090   -18.3    -8.0
             C:675                                      3734
               Open 60142 BENTON 3 345 63045 BENTON 4 230 1                          0.00000 -0.00401   200.1   246.2
               Open 60142 BENTON 3 345 60160 SHERCO 3 345 1                          0.01186  0.00789  -394.5  -485.1
               Open 60142 BENTON 3 345 63045 BENTON 4 230 2                          0.01460  0.00000     1.3     1.3
225 -11477.7 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -71.2   -47.0 -0.00211         -0.00211   -72.7   -48.5
             C:60789 CIRCLTP869.0 62872 FARIBLT869.0 1    3142
               Open 60789 CIRCLTP869.0 62872 FARIBLT869.0 1                          0.22127  0.00000     6.7     6.7
226 -11477.3 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -23.6   -13.7 -0.00086         -0.00090   -18.3    -8.0
             C:62138 BRGGLKS869.0 62139 CABLETP869.0 1    1785
               Open 62138 BRGGLKS869.0 62139 CABLETP869.0 1                          0.15187  0.00024   -35.0   -37.8
227 -11463.4 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -71.2   -47.0 -0.00211         -0.00211   -72.7   -48.5
             C:60820 LENATAP869.0 62382 LENA TP869.0 1    3172
               Open 60820 LENATAP869.0 62382 LENA TP869.0 1                          0.20033  0.00000     7.5     7.5
228 -11462.9 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -71.2   -47.0 -0.00211         -0.00211   -72.7   -48.5
             C:60818 ZUMBRTA869.0 60820 LENATAP869.0 1    1481
               Open 60818 ZUMBRTA869.0 60820 LENATAP869.0 1                          0.20033  0.00000     7.5     7.5
229 -11452.8 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -70.5   -47.0 -0.00205         -0.00211   -72.7   -48.5
             C:60787 NOFIELD869.0 62256 CSTL RK869.0 1    3140
               Open 60787 NOFIELD869.0 62256 CSTL RK869.0 1                          0.19701  0.00031    11.3     7.8
230 -11431.4 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -69.3   -47.0 -0.00195         -0.00211   -72.7   -48.6
             C:60650 WILMART869.0 60831 EASTWD2869.0 1    1377
               Open 60650 WILMART869.0 60831 EASTWD2869.0 1                          0.04891  0.00322    68.9    32.1
231 -11330.9 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -32.3   -17.3 -0.00132         -0.00090   -25.8   -15.6
             C:60703 WATKINS869.0 62620 WATKINS869.0 1    3074
               Open 60703 WATKINS869.0 62620 WATKINS869.0 1                          0.32182 -0.00132   -20.2    -5.2
232 -11286.9 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -70.8   -47.0 -0.00211         -0.00211   -72.7   -48.9
             C:60795 KENYNVL869.0 60797 KENYNTP869.0 1    1467
               Open 60795 KENYNVL869.0 60797 KENYNTP869.0 1                          0.40958  0.00000     4.6     4.6
233 -11206.2 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -70.6   -47.0 -0.00211         -0.00211   -72.7   -49.0
             C:60110 WILMART7 115  8006 G261-CT115.0 1    2942
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                Open 60110 WILMART7 115  8006 G261-CT115.0 1                          -0.01201  0.00000  -170.5  -170.5
234 -11206.2 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -70.6   -47.0 -0.00211         -0.00211   -72.7   -49.0
             C:60110 WILMART7 115  8007 G261-CT215.0 1    2943
                Open 60110 WILMART7 115  8007 G261-CT215.0 1                          -0.01201  0.00000  -170.5  -170.5
235 -11183.5 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -26.8   -17.3 -0.00085         -0.00090   -25.8   -15.7
             C:PRI-RRK/RRK3                                  3647
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 1                          -0.00133 -0.01690   390.7   579.7
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                          -0.00133 -0.01722   398.2   590.7
236 -11183.5 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -26.8   -17.3 -0.00085         -0.00090   -25.8   -15.7
             C:760                                           3762
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 1                          -0.00133 -0.01690   390.7   579.7
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                          -0.00133 -0.01722   398.2   590.7
237 -11174.9 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -29.1   -17.3 -0.00105         -0.00090   -25.8   -15.8
             C:60202 COON CK3 345 63030 DICKNSN3 345 1    1158
                Open 60202 COON CK3 345 63030 DICKNSN3 345 1                           0.00903 -0.01744  -365.9  -171.0
238 -11159.9 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -70.5   -47.0 -0.00211         -0.00211   -72.7   -49.1
             C:60108 WILMART3 345  8001 G261-ST 19.5 1    2941
                Open 60108 WILMART3 345  8001 G261-ST 19.5 1                          -0.00658  0.00000  -326.0  -326.0
239 -11133.0 L:60756 ALBANY 869.0 62838 FARMING869.0 1         -35.6   -27.6 -0.00072         -0.00055   -24.8   -18.7
             C:60760 PAYNES 869.0 62824 ZION TP869.0 1    3126
                Open 60760 PAYNES 869.0 62824 ZION TP869.0 1                          -0.38192  0.00045    28.3    23.3
240 -11128.4 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -76.8   -47.0 -0.00268         -0.00211   -72.7   -49.2
             C:700    1                                      3740
                Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                           0.00748 -0.03963    90.2   531.1
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.01499  0.04835   323.7  -214.3
                Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                           0.00877  0.05191     9.8  -567.9
241 -11090.9 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -72.5   -48.0 -0.00221         -0.00216   -65.1   -41.2
             C:60905 FRMNGTN869.0 62259 LKMARN 869.0 1    3209
                Open 60905 FRMNGTN869.0 62259 LKMARN 869.0 1                           0.20992 -0.00024   -35.3   -32.6
242 -11090.6 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -26.8   -17.3 -0.00086         -0.00090   -25.8   -15.8
             C:60153 MNTCELO7 115 60166 SALIDA 7 115 1    1062
                Open 60153 MNTCELO7 115 60166 SALIDA 7 115 1                          -0.01196 -0.00332    86.0   122.8
243 -11055.5 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -27.3   -17.3 -0.00090         -0.00090   -25.8   -15.9
             C:61910 MILACA 4 230 63045 BENTON 4 230 1    3375
                Open 61910 MILACA 4 230 63045 BENTON 4 230 1                           0.01741 -0.00032   -86.1   -82.6
244 -11055.5 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -27.3   -17.3 -0.00090         -0.00090   -25.8   -15.9
             C:61910 MILACA 4 230 62301 MILACA 869.0 1    1684
                Open 61910 MILACA 4 230 62301 MILACA 869.0 1                          -0.01741  0.00032    86.1    82.6
245 -11031.1 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -28.7   -17.3 -0.00103         -0.00090   -25.8   -15.9
             C:63050 WILLMAR4 230 66550 GRANITF4 230 1    2053
                Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                           0.01286 -0.01028  -223.5  -110.0
246 -11011.5 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -30.8   -17.3 -0.00122         -0.00090   -25.8   -15.9
             C:500                                           3721
                Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                           0.03165 -0.01028  -223.5  -110.2
                Open 62427 WILLMAR869.0 63050 WILLMAR4 230 1                          -0.04414  0.00004   -47.0   -47.4
247 -10934.7 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -71.5   -47.0 -0.00224         -0.00211   -72.7   -49.6
             C:60104 CANNFLS7 115 62235 EMPIRE 7 115 1    2938
                Open 60104 CANNFLS7 115 62235 EMPIRE 7 115 1                           0.06924 -0.00193    16.7    37.8
248 -10889.2 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -31.7   -17.3 -0.00132         -0.00090   -25.8   -16.0
             C:60703 WATKINS869.0 60704 KIMBALL869.0 1    1407
                Open 60703 WATKINS869.0 60704 KIMBALL869.0 1                          -0.32182  0.00132    18.4     4.0
249 -10881.6 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -28.7   -17.3 -0.00105         -0.00090   -25.8   -16.0
             C:CNC-DKN/SHC3                                  3637
                Open 60202 COON CK3 345 63030 DICKNSN3 345 1                           0.00893 -0.01744  -365.9  -176.2
                Open 60202 COON CK3 345 60272 MPLEGV23 345 1                          -0.00075 -0.00781  -472.1  -387.1
250 -10866.6 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -28.1   -13.7 -0.00132         -0.00090   -18.3    -8.5
             C:60717 WAKEFLD869.0 62846 FRHV TP869.0 1    3083
                Open 60717 WAKEFLD869.0 62846 FRHV TP869.0 1                          -0.32182  0.00132    30.5    16.1
251 -10850.4 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -26.8   -17.3 -0.00088         -0.00090   -25.8   -16.0
             C:60142 BENTON 3 345 63045 BENTON 4 230 1    2950
                Open 60142 BENTON 3 345 63045 BENTON 4 230 1                          -0.00514 -0.00401   200.1   243.6
252 -10850.0 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -70.8   -47.0 -0.00219         -0.00211   -72.7   -49.8
             C:PRI-RRK/RRK3                                  3647
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                Open 60105 PR ISLD3 345 60236 REDROCK3 345 1                          0.00241 -0.01690   390.7   574.0
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                          0.00241 -0.01722   398.2   585.0
253 -10850.0 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -70.8   -47.0 -0.00219         -0.00211   -72.7   -49.8
            C:760                                          3762
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 1                          0.00241 -0.01690   390.7   574.0
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                          0.00241 -0.01722   398.2   585.0
254 -10843.8 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -23.5   -13.7 -0.00091         -0.00090   -18.3    -8.5
            C:60162 WAKEFLD7 115 60717 WAKEFLD869.0 1    1080
                Open 60162 WAKEFLD7 115 60717 WAKEFLD869.0 1                         -0.10122  0.00009    52.0    51.0
255 -10819.1 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -20.1   -13.7 -0.00060         -0.00090   -18.3    -8.6
            C:62125 BECKER 869.0 62939 SILVERC869.0 1    1769
                Open 62125 BECKER 869.0 62939 SILVERC869.0 1                         -0.30521 -0.00099     6.2    16.9
256 -10810.7 L:60107 W FARIB7 115 60792 WFARBLT869.0 P2        118.2   112.0  0.00058          0.00042    86.7    82.2
            C:60107 W FARIB7 115 60792 WFARBLT869.0 1     953
                Open 60107 W FARIB7 115 60792 WFARBLT869.0 1                          0.78533  0.00020    40.1    38.0
257 -10792.5 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -27.8   -17.3 -0.00098         -0.00090   -25.8   -16.1
            C:60652 CROWRV 869.0 62931 DELANO 869.0 1    1381
                Open 60652 CROWRV 869.0 62931 DELANO 869.0 1                         -0.07959  0.00100    25.8    15.1
258 -10791.7 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -26.8   -17.3 -0.00088         -0.00090   -25.8   -16.1
            C:62293 RUSH CY869.0 63048 RUSH CY4 230 1    1848
                Open 62293 RUSH CY869.0 63048 RUSH CY4 230 1                          0.01164  0.00121   -90.1  -103.1
259 -10760.8 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -28.6   -17.3 -0.00105         -0.00090   -25.8   -16.1
            C:009   4                                      3701
                Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                          0.00074  0.00781   476.3   392.2
                Open 60202 COON CK3 345 60272 MPLEGV23 345 1                          0.00396  0.00000     4.2     4.2
                Open 60202 COON CK3 345 63030 DICKNSN3 345 1                          0.00896 -0.01744  -365.9  -178.3
                Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                          0.00029 -0.00157   390.0   406.9
                Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                          0.00368  0.00000     0.2     0.2
                Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1     NA
260 -10721.4 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -69.4   -47.0 -0.00209         -0.00211   -72.7   -50.1
            C:60107 W FARIB7 115 60792 WFARBLT869.0 1     953
                Open 60107 W FARIB7 115 60792 WFARBLT869.0 1                          0.08073  0.00020    40.1    38.0
261 -10701.9 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -70.4   -48.0 -0.00210         -0.00216   -65.1   -42.0
            C:60217 INVRHLS3 345 60218 INVRHLS7 115 1    1197
                Open 60217 INVRHLS3 345 60218 INVRHLS7 115 1                         -0.01712 -0.00356   312.4   350.5
262 -10593.0 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -26.8   -17.3 -0.00090         -0.00090   -25.8   -16.3
            C:60006 KING 31G20.0 60186 AS KING3 345 1    2899
                Open 60006 KING 31G20.0 60186 AS KING3 345 1                          0.00177  0.00000  -576.7  -576.7
263 -10511.9 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -62.2   -47.0 -0.00145         -0.00211   -72.7   -50.5
            C:60786 DUNDAS 869.0 60787 NOFIELD869.0 1    1457
                Open 60786 DUNDAS 869.0 60787 NOFIELD869.0 1                          0.30553  0.00216    34.2    11.5
264 -10488.0 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -22.1   -13.7 -0.00080         -0.00090   -18.3    -8.9
            C:62150 E BL TP869.0 62965 ELKRWS1869.0 1    1797
                Open 62150 E BL TP869.0 62965 ELKRWS1869.0 1                          0.13540  0.00074   -28.0   -35.8
265 -10453.4 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -22.0   -13.7 -0.00080         -0.00090   -18.3    -8.9
            C:62100 BIG LAK869.0 62150 E BL TP869.0 1    1734
                Open 62100 BIG LAK869.0 62150 E BL TP869.0 1                          0.13540  0.00074   -27.8   -35.6
266 -10427.8 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -22.7   -13.7 -0.00086         -0.00090   -18.3    -8.9
            C:62122 WESTEND869.0 62138 BRGGLKS869.0 1    1765
                Open 62122 WESTEND869.0 62138 BRGGLKS869.0 1                          0.15187  0.00024   -29.0   -31.6
267 -10369.6 L:60756 ALBANY 869.0 62838 FARMING869.0 1         -35.1   -27.6 -0.00072         -0.00055   -24.8   -19.1
            C:60768 ELRSATP869.0 62824 ZION TP869.0 1    3133
                Open 60768 ELRSATP869.0 62824 ZION TP869.0 1                          0.38192 -0.00045   -26.9   -22.2
268 -10350.9 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -71.3   -47.0 -0.00235         -0.00211   -72.7   -50.9
            C:PRI-BLL/RRK3                                 3648
                Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                          0.00516 -0.03963    90.2   500.3
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 1                          0.00224 -0.01690   390.7   565.6
269 -10313.7 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -68.5   -48.0 -0.00199         -0.00216   -65.1   -42.8
            C:60103 CANNFLS5 161 63071 SPRNGCK5 161 1    2937
                Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                          0.05494  0.00307   -62.4   -94.0
270 -10297.5 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1        -101.7   -47.0 -0.00531         -0.00211   -72.7   -51.0
            C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                         -0.02831  0.11319  1025.6  -140.0
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271 -10293.0 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -68.5   -48.0 -0.00199         -0.00216   -65.1   -42.9
             C:60103 CANNFLS5 161 60104 CANNFLS7 115 1     945
               Open 60103 CANNFLS5 161 60104 CANNFLS7 115 1                          -0.05494 -0.00307    61.6    93.2
272 -10288.2 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -68.5   -48.0 -0.00199         -0.00216   -65.1   -42.9
             C:740    2                                   3758
               Open 60103 CANNFLS5 161 60104 CANNFLS7 115 1                          -0.05494 -0.00307    61.6    93.1
               Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                           0.01291  0.00000     0.7     0.7
273 -10271.4 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          33.8    19.3  0.00141          0.00055    31.8    26.2
             C:60159 STCTPW 7 115 60162 WAKEFLD7 115 1    1076
               Open 60159 STCTPW 7 115 60162 WAKEFLD7 115 1                          -0.11243 -0.00768   -17.6    61.2
274 -10271.2 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -71.1   -48.0 -0.00225         -0.00216   -65.1   -42.9
             C:IVH-BLL/RRK3                                3646
               Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.01917  0.04835   323.7  -172.9
               Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                           0.01602  0.05191     9.8  -523.4
275 -10271.2 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -71.1   -48.0 -0.00225         -0.00216   -65.1   -42.9
             C:700    2                                   3741
               Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.01917  0.04835   323.7  -172.9
               Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                           0.01602  0.05191     9.8  -523.4
276 -10264.4 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          33.8    19.3  0.00141          0.00055    31.8    26.2
             C:756                                         3761
               Open 62815 I94PARK7 115 62816 STAUGST7 115 1                           0.00489 -0.00307    22.3    53.7
               Open 60159 STCTPW 7 115 60162 WAKEFLD7 115 1                          -0.11415 -0.00768   -17.6    61.2
               Open 60157 STCLOUD7 115 60159 STCTPW 7 115 1                          -0.02863  0.00000     5.8     5.8
               Open 60159 STCTPW 7 115 62816 STAUGST7 115 1     NA
277 -10172.1 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -69.9   -48.0 -0.00216         -0.00216   -65.1   -43.1
             C:60002 SHERC33G26.0 60160 SHERCO 3 345 1    2895
               Open 60002 SHERC33G26.0 60160 SHERCO 3 345 1                           0.00560  0.00000  -868.0  -868.0
278 -10104.2 L:60808 EAGLELK869.0 62351 JMSTWTP869.0 1          67.4    53.7  0.00136          0.00007    30.4    29.7
             C:60826 TRAVRSE869.0 62323 PNLPNTP869.0 1    3176
               Open 60826 TRAVRSE869.0 62323 PNLPNTP869.0 1                          -0.53268 -0.00242   -69.6   -45.1
279 -10038.1 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -22.4   -13.7 -0.00087         -0.00090   -18.3    -9.3
             C:62134 ELKR14S869.0 63043 ELK RIV4 230 1    1781
               Open 62134 ELKR14S869.0 63043 ELK RIV4 230 1                           0.03174  0.00086  -131.4  -140.0
280 -10023.4 L:60658 IRONWD8888.0 60665 IRONWD 934.5 1          31.5    25.0  0.00065          0.00036    15.7    12.1
             C:60295 BAYFRNT7 115 60350 GINGLES7 115 1    1303
               Open 60295 BAYFRNT7 115 60350 GINGLES7 115 1                           0.24065  0.00119    65.5    53.5
281 -10022.2 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -78.5   -47.0 -0.00315         -0.00211   -72.7   -51.5
             C:60107 W FARIB7 115 61952 S FARIB5 161 1     955
               Open 60107 W FARIB7 115 61952 S FARIB5 161 1                          -0.07126  0.01456    82.2   -63.8
282 -10003.6 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -78.5   -47.0 -0.00315         -0.00211   -72.7   -51.6
             C:61952 S FARIB5 161 61964 OWATNNA5 161 1    1699
               Open 61952 S FARIB5 161 61964 OWATNNA5 161 1                          -0.07126  0.01456    81.4   -64.3
283  -9965.6 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -26.8   -17.3 -0.00095         -0.00090   -25.8   -16.8
             C:63051 HENNING4 230 63331 FERGSFL4 230 1    2055
               Open 63051 HENNING4 230 63331 FERGSFL4 230 1                           0.00506 -0.01090  -199.4   -90.8
284  -9922.2 L:60156 PYNSVIL7 115 60760 PAYNES 869.0 P1          65.5    47.0  0.00186          0.00115    40.4    29.0
             C:60156 PYNSVIL7 115 60760 PAYNES 869.0 P2   1071
               Open 60156 PYNSVIL7 115 60760 PAYNES 869.0 P2                          0.62040  0.00115    40.4    29.0
285  -9922.2 L:60156 PYNSVIL7 115 60760 PAYNES 869.0 P2          65.5    47.0  0.00186          0.00115    40.4    29.0
             C:60156 PYNSVIL7 115 60760 PAYNES 869.0 P1   1070
               Open 60156 PYNSVIL7 115 60760 PAYNES 869.0 P1                          0.62040  0.00115    40.4    29.0
286  -9829.8 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -26.7   -13.7 -0.00132         -0.00090   -18.3    -9.4
             C:60705 LUXBGTP869.0 62846 FRHV TP869.0 1    3078
               Open 60705 LUXBGTP869.0 62846 FRHV TP869.0 1                           0.32182 -0.00132   -26.2   -13.2
287  -9765.6 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -69.1   -48.0 -0.00216         -0.00216   -65.1   -44.0
             C:60001 SHERC32G24.0 60160 SHERCO 3 345 1    2894
               Open 60001 SHERC32G24.0 60160 SHERCO 3 345 1                           0.00560  0.00000  -711.4  -711.4
288  -9761.4 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -69.1   -48.0 -0.00216         -0.00216   -65.1   -44.0
             C:60000 SHERC31G24.0 60160 SHERCO 3 345 1    2893
               Open 60000 SHERC31G24.0 60160 SHERCO 3 345 1                           0.00560  0.00000  -709.8  -709.8
289  -9746.8 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -74.5   -47.0 -0.00282         -0.00211   -72.7   -52.1
             C:BLL-PRI/IVH3                                3641
               Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                           0.00832 -0.03963    90.2   476.4
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                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.00787  0.04835   323.7  -147.5
290  -9710.0 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -73.2   -48.0 -0.00260         -0.00216   -65.1   -44.1
             C:60791 FARIBLT869.0 60794 NRSTRND869.0 P1   1465
                Open 60791 FARIBLT869.0 60794 NRSTRND869.0 P1                         -0.27260  0.00161    29.8    14.2
291  -9692.5 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -59.9   -48.0 -0.00122         -0.00216   -51.9   -31.0
             C:60787 NOFIELD869.0 60801 CNFLSTR869.0 1    1459
                Open 60787 NOFIELD869.0 60801 CNFLSTR869.0 1                           0.50545  0.00185   -15.7   -33.6
292  -9682.7 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -86.3   -66.0 -0.00210         -0.00166   -66.5   -50.5
             C:60790 FAIRPRK869.0 60791 FARIBLT869.0 1    1462
                Open 60790 FAIRPRK869.0 60791 FARIBLT869.0 1                           0.88128 -0.00050   -22.5   -17.6
293  -9631.6 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -28.8   -17.3 -0.00120         -0.00090   -25.8   -17.1
             C:60189 BLK DOG4 230 60190 BLK DOG7 115 C1   1120
                Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                         -0.02300  0.01298   132.0     7.0
294  -9631.6 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -28.8   -17.3 -0.00120         -0.00090   -25.8   -17.1
             C:810   C1                                   3770
                Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                           0.02300 -0.01298  -132.0    -7.0
                Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                          0.00055  0.00000    -0.0    -0.0
295  -9631.6 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -28.8   -17.3 -0.00120         -0.00090   -25.8   -17.1
             C:60189 BLK DOG4 230 62980 MCLEOD 4 230 1    1121
                Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                           0.02300 -0.01298  -132.0    -7.0
296  -9614.7 L:62935 MAPLELK869.0 63024 MAPLE 1G69.0 1          32.8    24.3  0.00088          0.00099    14.0     4.6
             C:62139 CABLETP869.0 62297 BENTON 869.0 1    1787
                Open 62139 CABLETP869.0 62297 BENTON 869.0 1                          -0.43700  0.00024   -42.9   -45.2
297  -9613.8 L:62944 GOOSETP869.0 63024 MAPLE 1G69.0 1         -32.8   -24.3 -0.00088         -0.00099   -14.0    -4.6
             C:62139 CABLETP869.0 62297 BENTON 869.0 1    1787
                Open 62139 CABLETP869.0 62297 BENTON 869.0 1                           0.43700  0.00024   -42.9   -45.2
298  -9548.0 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -68.6   -48.0 -0.00216         -0.00216   -65.1   -44.5
             C:60006 KING 31G20.0 60186 AS KING3 345 1    2899
                Open 60006 KING 31G20.0 60186 AS KING3 345 1                           0.00609  0.00000  -576.7  -576.7
299  -9522.8 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          28.5    19.3  0.00097          0.00055    31.8    26.6
             C:60710 FARM TP869.0 60711 RICHMND869.0 1    1411
                Open 60710 FARM TP869.0 60711 RICHMND869.0 1                           0.34070  0.00123    -9.7   -21.4
300  -9510.0 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -68.5   -48.0 -0.00216         -0.00216   -65.1   -44.6
             C:60003 PR IS31G20.0 60105 PR ISLD3 345 1    2896
                Open 60003 PR IS31G20.0 60105 PR ISLD3 345 1                           0.00645  0.00000  -531.4  -531.4
301  -9468.3 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -68.4   -48.0 -0.00216         -0.00216   -65.1   -44.7
             C:60004 PR IS32G20.0 60105 PR ISLD3 345 1    2897
                Open 60004 PR IS32G20.0 60105 PR ISLD3 345 1                           0.00645  0.00000  -517.4  -517.4
302  -9452.9 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -25.8   -17.3 -0.00090
                Base Case
303  -9439.5 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -72.5   -48.0 -0.00260         -0.00216   -65.1   -44.7
             C:60794 NRSTRND869.0 62389 KENYON 869.0 1    3145
                Open 60794 NRSTRND869.0 62389 KENYON 869.0 1                          -0.27260  0.00161    27.2    12.0
304  -9429.8 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -68.3   -48.0 -0.00216         -0.00216   -65.1   -44.7
             C:60005 MNTCE31G22.0 60151 MNTCELO3 345 1    2898
                Open 60005 MNTCE31G22.0 60151 MNTCELO3 345 1                           0.00553  0.00000  -588.5  -588.5
305  -9425.8 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -57.4   -48.0 -0.00100         -0.00216   -65.1   -44.8
             C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                          -0.00831 -0.13974  -926.4   390.8
306  -9409.6 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -29.7   -17.3 -0.00132         -0.00090   -25.8   -17.3
             C:60704 KIMBALL869.0 60761 SOUTHVN869.0 1    1408
                Open 60704 KIMBALL869.0 60761 SOUTHVN869.0 1                          -0.32182  0.00132    12.3    -0.1
307  -9409.1 L:62935 MAPLELK869.0 63024 MAPLE 1G69.0 1          33.3    24.3  0.00095          0.00099    14.0     4.8
             C:62297 BENTON 869.0 63045 BENTON 4 230 1    3382
                Open 62297 BENTON 869.0 63045 BENTON 4 230 1                          -0.26740  0.00013   -71.9   -73.1
308  -9408.3 L:62944 GOOSETP869.0 63024 MAPLE 1G69.0 1         -33.3   -24.3 -0.00095         -0.00099   -14.0    -4.8
             C:62297 BENTON 869.0 63045 BENTON 4 230 1    3382
                Open 62297 BENTON 869.0 63045 BENTON 4 230 1                           0.26740  0.00013   -71.9   -73.1
309  -9369.0 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -24.8   -17.3 -0.00080         -0.00090   -25.8   -17.4
             C:62119 THOMPLK869.0 62137 BCKRNSP869.0 1    1760
                Open 62119 THOMPLK869.0 62137 BCKRNSP869.0 1                          -0.13540 -0.00074    -7.5    -0.6
310  -9365.4 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -24.8   -17.3 -0.00080         -0.00090   -25.8   -17.4
             C:62125 BECKER 869.0 62137 BCKRNSP869.0 1    1768
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                Open 62125 BECKER 869.0 62137 BCKRNSP869.0 1                          0.13540  0.00074     7.5     0.6
311  -9327.7 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -29.6   -17.3 -0.00132         -0.00090   -25.8   -17.4
             C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                         -0.00372  0.11319  1025.6   -30.2
312  -9318.2 L:60208 EDINA  7 115 60263 EDEN PR7 115 1        -379.3  -318.0 -0.00658         -0.00290  -288.5  -261.5
             C:PKL-CDR/BCR7                                  3666
                Close 60181 ALDRICH7 115 60182 ALDRICH7 115 1
                Open 60234 PARKERS7 115 60346 CEDARLK7 115 P1                        -0.42186 -0.00000   121.0   121.0
                Open 60234 PARKERS7 115 60259 BASCRK 7 115 1                         -0.18916 -0.00000   210.2   210.2
313  -9300.4 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -72.1   -48.0 -0.00260         -0.00216   -65.1   -45.0
             C:60797 KENYNTP869.0 62389 KENYON 869.0 1    3147
                Open 60797 KENYNTP869.0 62389 KENYON 869.0 1                          0.27260 -0.00161   -25.9   -10.9
314  -9287.2 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -29.6   -17.3 -0.00132         -0.00090   -25.8   -17.4
             C:60712 ANNDALE869.0 60761 SOUTHVN869.0 1    1412
                Open 60712 ANNDALE869.0 60761 SOUTHVN869.0 1                          0.32182 -0.00132   -11.8     0.5
315  -9260.0 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -24.5   -17.3 -0.00078         -0.00090   -25.8   -17.5
             C:62437 SVEATAP869.0 62438 LITCHTP869.0 1    1904
                Open 62437 SVEATAP869.0 62438 LITCHTP869.0 1                          0.06130  0.00195    20.9     2.8
316  -9197.3 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -66.5   -48.0 -0.00201         -0.00216   -58.1   -38.3
             C:60106 PR ISLD5 161 63071 SPRNGCK5 161 1    2939
                Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                         -0.05730 -0.00258   145.8   169.5
317  -9197.3 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -66.5   -48.0 -0.00201         -0.00216   -58.1   -38.3
             C:60105 PR ISLD3 345 60106 PR ISLD5 161 1     947
                Open 60105 PR ISLD3 345 60106 PR ISLD5 161 1                         -0.05730 -0.00258   145.8   169.5
318  -9171.7 L:61910 MILACA 4 230 62301 MILACA 869.0 1         101.3    96.0  0.00057          0.00032    86.1    83.2
             C:61653 RIVERTN7 115 62180 RIVTON 869.0 1    3363
                Open 61653 RIVERTN7 115 62180 RIVTON 869.0 1                          0.32367  0.00078    46.8    39.6
319  -9158.0 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -68.1   -47.0 -0.00230         -0.00211   -72.7   -53.4
             C:61948 BYRON  5 161 61950 BYRON  3 345 1    1697
                Open 61948 BYRON  5 161 61950 BYRON  3 345 1                         -0.02365  0.00828  -193.4  -269.2
320  -9106.8 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -25.7   -13.7 -0.00132         -0.00090   -18.3   -10.1
             C:60705 LUXBGTP869.0 62620 WATKINS869.0 1    3076
                Open 60705 LUXBGTP869.0 62620 WATKINS869.0 1                         -0.32182  0.00132    23.2    11.2
321  -9071.2 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -71.1   -48.0 -0.00254         -0.00216   -65.1   -45.5
             C:700    1                                      3740
                Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                          0.00507 -0.03963    90.2   449.6
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.02037  0.04835   323.7  -114.9
                Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                          0.01540  0.05191     9.8  -461.1
322  -9067.0 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -66.9   -48.0 -0.00209         -0.00216   -65.1   -45.5
             C:60817 BURNSID869.0 62387 SPRNGCK869.0 1    3168
                Open 60817 BURNSID869.0 62387 SPRNGCK869.0 1                          0.06216  0.00110   -29.8   -39.8
323  -9035.1 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -65.8   -48.0 -0.00197         -0.00216   -58.1   -38.6
             C:SPC-PRI/CTF5                                  3685
                Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                         -0.04135 -0.00258   145.8   169.1
                Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                          0.02632  0.00307   -62.4   -90.0
324  -9007.6 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -65.7   -48.0 -0.00197         -0.00216   -58.1   -38.7
             C:740    1                                      3757
                Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                          0.02632  0.00307   -62.4   -90.0
                Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                         -0.04135 -0.00258   145.8   169.0
                Open 60103 CANNFLS5 161 60104 CANNFLS7 115 1                          0.07231  0.00000     0.7     0.7
325  -8989.8 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -21.8   -13.7 -0.00090         -0.00090   -18.3   -10.2
             C:62986 HUTCHMN869.0 62988 HTCHHTI869.0 1    2031
                Open 62986 HUTCHMN869.0 62988 HTCHHTI869.0 1                         -0.08394  0.00000    41.7    41.7
326  -8981.9 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -67.4   -48.0 -0.00216         -0.00216   -65.1   -45.7
             C:60014 BLK D74G18.0 60200 BLK DG27 115 1    2907
                Open 60014 BLK D74G18.0 60200 BLK DG27 115 1                          0.01334  0.00000  -171.7  -171.7
327  -8979.4 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -23.2   -17.3 -0.00066         -0.00090   -25.8   -17.7
             C:62982 HUTCHMN7 115 62983 HUTCH3M7 115 1    2026
                Open 62982 HUTCHMN7 115 62983 HUTCH3M7 115 1                         -0.05924 -0.00402   -43.3    -7.2
328  -8932.3 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -67.6   -48.0 -0.00220         -0.00216   -65.1   -45.8
             C:60342 WHAST  7 115 62258 WHASTNG869.0 1    3032
                Open 60342 WHAST  7 115 62258 WHASTNG869.0 1                         -0.05012  0.00078    50.6    43.6
329  -8930.7 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -195.2  -127.9 -0.00754         -0.00474  -150.7  -108.3
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            C:60148 MINVALY7 115 60171 LYON CO7 115 1    1049
              Open 60148 MINVALY7 115 60171 LYON CO7 115 1                          0.41687 -0.00670  -106.8   -46.9
330  -8907.9 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -67.1   -48.0 -0.00214         -0.00216   -65.1   -45.9
            C:60218 INVRHLS7 115 60223 KOCHREF7 115 1    1200
              Open 60218 INVRHLS7 115 60223 KOCHREF7 115 1                         -0.00947 -0.00190   208.2   225.1
331  -8876.0 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -21.7   -13.7 -0.00090         -0.00090   -18.3   -10.3
            C:60002 SHERC33G26.0 60160 SHERCO 3 345 1    2895
              Open 60002 SHERC33G26.0 60160 SHERCO 3 345 1                          0.00392  0.00000  -868.0  -868.0
332  -8871.1 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -66.6   -48.0 -0.00209         -0.00216   -65.1   -45.9
            C:760                                        3762
              Open 60105 PR ISLD3 345 60236 REDROCK3 345 1                         -0.00188 -0.01690   390.7   540.6
              Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                         -0.00188 -0.01722   398.2   550.9
333  -8871.1 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -66.6   -48.0 -0.00209         -0.00216   -65.1   -45.9
            C:PRI-RRK/RRK3                               3647
              Open 60105 PR ISLD3 345 60236 REDROCK3 345 1                         -0.00188 -0.01690   390.7   540.6
              Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                         -0.00188 -0.01722   398.2   550.9
334  -8851.6 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -66.1   -48.0 -0.00205         -0.00216   -65.1   -46.0
            C:60982 ALMA   869.0 68874 ALMA 8  69.0 1    3254
              Open 60982 ALMA   869.0 68874 ALMA 8  69.0 1                          0.02975  0.00359   -35.8   -67.6
335  -8832.3 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -67.9   -48.0 -0.00225         -0.00216   -65.1   -46.0
            C:705       1                                3742
              Open 60192 BLUE LK3 345 60233 PARKERS3 345 1                         -0.00354  0.01268   140.3    28.3
              Open 60192 BLUE LK3 345 60262 EDEN PR3 345 1                         -0.00367  0.01321   562.3   445.6
              Open 60262 EDEN PR3 345 60263 EDEN PR7 115 1                         -0.00069  0.00057   342.4   337.4
336  -8756.2 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -70.7   -48.0 -0.00260         -0.00216   -65.1   -46.2
            C:60796 KENYON 869.0 60797 KENYNTP869.0 1    1468
              Open 60796 KENYON 869.0 60797 KENYNTP869.0 1                          0.27260 -0.00161   -20.7    -6.6
337  -8751.8 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -67.7   -48.0 -0.00225         -0.00216   -65.1   -46.2
            C:BLL-EDP/PKL3                               3640
              Open 60192 BLUE LK3 345 60262 EDEN PR3 345 1                         -0.00378  0.01321   562.3   446.7
              Open 60192 BLUE LK3 345 60233 PARKERS3 345 1                         -0.00361  0.01268   140.3    29.3
338  -8737.3 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -66.5   -48.0 -0.00212         -0.00216   -65.1   -46.2
            C:60218 INVRHLS7 115 60220 INVRGRV7 115 1    1199
              Open 60218 INVRHLS7 115 60220 INVRGRV7 115 1                         -0.01098 -0.00349   130.1   160.6
339  -8715.7 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -24.1   -17.3 -0.00078         -0.00090   -25.8   -18.0
            C:62427 WILLMAR869.0 62437 SVEATAP869.0 1    1892
              Open 62427 WILLMAR869.0 62437 SVEATAP869.0 1                          0.06130  0.00195    27.8    10.8
340  -8650.9 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -99.9   -48.0 -0.00600         -0.00216   -65.1   -46.4
            C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
              Open 60108 WILMART3 345 60192 BLUE LK3 345 1                         -0.03397  0.11319  1025.6    46.4
341  -8639.1 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -56.6   -47.0 -0.00111         -0.00211   -72.7   -54.5
            C:60797 KENYNTP869.0 62389 KENYON 869.0 1    3147
              Open 60797 KENYNTP869.0 62389 KENYON 869.0 1                         -0.62236 -0.00161   -25.9   -12.0
342  -8626.8 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -66.6   -48.0 -0.00216         -0.00216   -65.1   -46.5
            C:60218 INVRHLS7 115 61478 INV TR1Y 115 1    1202
              Open 60218 INVRHLS7 115 61478 INV TR1Y 115 1                          0.01326  0.00000  -115.0  -115.0
343  -8619.2 L:60827 LKEMILY869.0 61974 ST PETER69.0 1          59.7    48.0  0.00136          0.00007     7.0     6.4
            C:60650 WILMART869.0 62336 JHNSNTP869.0 1    3043
              Open 60650 WILMART869.0 62336 JHNSNTP869.0 1                          0.53268  0.00242    98.9    78.1
344  -8618.5 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -24.7   -17.3 -0.00086         -0.00090   -25.8   -18.0
            C:66503 BLAIR  4 230 66550 GRANITF4 230 1    2449
              Open 66503 BLAIR  4 230 66550 GRANITF4 230 1                          0.00397  0.00970   271.9   188.3
345  -8616.9 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -66.6   -48.0 -0.00216         -0.00216   -65.1   -46.5
            C:60008 RIVRS78G22.0 60240 RIVRSID7 115 1    2901
              Open 60008 RIVRS78G22.0 60240 RIVRSID7 115 1                          0.00660  0.00000  -228.0  -228.0
346  -8616.6 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -66.6   -48.0 -0.00216         -0.00216   -65.1   -46.5
            C:60013 BLK D73G13.8 60200 BLK DG27 115 1    2906
              Open 60013 BLK D73G13.8 60200 BLK DG27 115 1                          0.01334  0.00000  -112.6  -112.6
347  -8581.1 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -63.6   -48.0 -0.00181         -0.00216   -65.1   -46.6
            C:ASK-RRK/ECL3                               3645
              Open 60186 AS KING3 345 60236 REDROCK3 345 1                         -0.00156 -0.01971    56.6   225.8
              Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00326  0.06345   376.0  -168.5
              Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.00157 -0.06709  -241.0   334.8
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348  -8572.7 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -24.0   -17.3 -0.00078         -0.00090   -25.8   -18.1
             C:022       1                                  3706
               Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          0.00264  0.02473   273.5    61.5
               Open 60221 KOLMNLK3 345 60251 TERMINL3 345 1                         -0.00046 -0.02272   209.4   404.1
               Open 60202 COON CK3 345 60251 TERMINL3 345 1                          0.00218  0.01927   549.2   384.1
               Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                         -0.00011  0.00023   225.9   223.9
               Open 60251 TERMINL3 345 61492 TERMID1Y 345 1     NA
               Open 60252 TERMINL7 115 61492 TERMID1Y 345 1                         -0.00000  0.00172  -377.2  -391.9
               Open 61187 TERTER1934.5 61492 TERMID1Y 345 1     NA
               Open 60251 TERMINL3 345 61491 TERMID2Y 345 1     NA
               Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                          0.00178  0.00000     0.7     0.7
               Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
349  -8556.4 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -66.1   -48.0 -0.00212         -0.00216   -65.1   -46.6
             C:60220 INVRGRV7 115 62230 PILOTKB7 115 1    2976
               Open 60220 INVRGRV7 115 62230 PILOTKB7 115 1                         -0.01098 -0.00349    95.2   125.0
350  -8539.3 L:60208 EDINA  7 115 60263 EDEN PR7 115 1        -374.2  -318.0 -0.00658         -0.00290  -288.5  -263.8
             C:MEL-BCR/CDR7                                     3687
               Close 60181 ALDRICH7 115 60182 ALDRICH7 115 1
               Open 60227 MEDLAKE7 115 60259 BASCRK 7 115 1                          0.18916  0.00000  -183.1  -183.1
               Open 60234 PARKERS7 115 60346 CEDARLK7 115 P1                        -0.42186 -0.00000   121.0   121.0
351  -8515.5 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -70.1   -48.0 -0.00260         -0.00216   -65.1   -46.7
             C:60796 KENYON 869.0 60819 CHERYTP869.0 1    1469
               Open 60796 KENYON 869.0 60819 CHERYTP869.0 1                         -0.27260  0.00161    18.4     4.7
352  -8504.2 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -67.9   -48.0 -0.00234         -0.00216   -65.1   -46.7
             C:60110 WILMART7 115 60194 CARVRCO7 115 1     964
               Open 60110 WILMART7 115 60194 CARVRCO7 115 1                         -0.02066  0.00886   136.3    61.0
353  -8499.1 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -66.3   -48.0 -0.00216         -0.00216   -65.1   -46.8
             C:60010 HIBRD76G18.0 60214 HIBRDGE7 115 1    2903
               Open 60010 HIBRD76G18.0 60214 HIBRDGE7 115 1                          0.00742  0.00000  -168.4  -168.4
354  -8486.6 L:62935 MAPLELK869.0 63024 MAPLE 1G69.0 1          32.5    24.3  0.00097          0.00099    14.0     5.7
             C:680    P2                                        3736
               Open 60143 BENTON 7 115 63045 BENTON 4 230 P2                         0.00508  0.00362  -138.3  -169.1
               Open 62297 BENTON 869.0 63045 BENTON 4 230 1                         -0.26713  0.00013   -71.9   -73.0
355  -8486.6 L:62935 MAPLELK869.0 63024 MAPLE 1G69.0 1          32.5    24.3  0.00097          0.00099    14.0     5.7
             C:680                                              3735
               Open 60143 BENTON 7 115 63045 BENTON 4 230 P2                         0.00508  0.00362  -138.3  -169.1
               Open 62297 BENTON 869.0 63045 BENTON 4 230 1                         -0.26713  0.00013   -71.9   -73.0
356  -8485.8 L:62944 GOOSETP869.0 63024 MAPLE 1G69.0 1         -32.5   -24.3 -0.00097         -0.00099   -14.0    -5.7
             C:680                                              3735
               Open 60143 BENTON 7 115 63045 BENTON 4 230 P2                        -0.00508  0.00362  -138.3  -169.1
               Open 62297 BENTON 869.0 63045 BENTON 4 230 1                          0.26713  0.00013   -71.9   -73.0
357  -8485.8 L:62944 GOOSETP869.0 63024 MAPLE 1G69.0 1         -32.5   -24.3 -0.00097         -0.00099   -14.0    -5.7
             C:680    P2                                        3736
               Open 60143 BENTON 7 115 63045 BENTON 4 230 P2                        -0.00508  0.00362  -138.3  -169.1
               Open 62297 BENTON 869.0 63045 BENTON 4 230 1                          0.26713  0.00013   -71.9   -73.0
358  -8485.1 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -21.2   -13.7 -0.00089         -0.00090   -18.3   -10.6
             C:60151 MNTCELO3 345 60152 MNTCELO4 230 1    1057
               Open 60151 MNTCELO3 345 60152 MNTCELO4 230 1                         -0.01145 -0.00093   258.5   266.4
359  -8483.0 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -66.1   -48.0 -0.00214         -0.00216   -65.1   -46.8
             C:715       3                                      3750
               Open 60200 BLK DG27 115 62666 GLNDALE7 115 1                         -0.00581 -0.00339    34.9    63.6
               Open 62666 GLNDALE7 115 62672 GLNDALE869.0 2                         -0.02623  0.00008    32.9    32.2
360  -8473.4 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -62.4   -48.0 -0.00170         -0.00216   -65.1   -46.8
             C:60805 WATRVIL869.0 62679 ELYSNTP869.0 1    3154
               Open 60805 WATRVIL869.0 62679 ELYSNTP869.0 1                         -0.14421 -0.00315   -18.4     8.3
361  -8462.1 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -66.5   -48.0 -0.00219         -0.00216   -65.1   -46.8
             C:022       1                                      3706
               Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                         -0.00073  0.02473   273.5    64.2
               Open 60221 KOLMNLK3 345 60251 TERMINL3 345 1                         -0.00096 -0.02272   209.4   401.6
               Open 60202 COON CK3 345 60251 TERMINL3 345 1                         -0.00169  0.01927   549.2   386.2
               Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                         -0.00041  0.00023   225.9   223.9
               Open 60251 TERMINL3 345 61492 TERMID1Y 345 1     NA
               Open 60252 TERMINL7 115 61492 TERMID1Y 345 1                          0.00000  0.00172  -377.2  -391.7
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              Open 61187 TERTER1934.5 61492 TERMID1Y 345 1     NA
              Open 60251 TERMINL3 345 61491 TERMID2Y 345 1     NA
              Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                          0.00712  0.00000     0.7     0.7
              Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
362  -8448.1 L:62429 PNNCKTP869.0 66298 GRANITF869.0 1         -39.2   -24.3 -0.00176         -0.00071   -16.4   -10.4
            C:63050 WILLMAR4 230 66550 GRANITF4 230 1    2053
              Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                          0.10183 -0.01028  -223.5  -136.6
363  -8438.9 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -63.3   -48.0 -0.00181         -0.00216   -65.1   -46.9
            C:050    2                                   3719
              Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00377  0.06345   376.0  -159.5
              Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.00159 -0.06709  -241.0   325.2
              Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          0.00000 -0.00187    64.8    80.6
364  -8434.5 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -63.3   -48.0 -0.00181         -0.00216   -65.1   -46.9
            C:050    1                                   3718
              Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00378  0.06345   376.0  -159.2
              Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.00157 -0.06709  -241.0   324.9
              Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          0.00000 -0.00187    64.8    80.6
              Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                          0.00021 -0.00300     0.0    25.3
              Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                          0.00030 -0.00148   -22.1    -9.6
365  -8432.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -64.8   -48.0 -0.00199         -0.00216   -58.1   -39.9
            C:60104 CANNFLS7 115 60801 CNFLSTR869.0 1     946
              Open 60104 CANNFLS7 115 60801 CNFLSTR869.0 1                         -0.14830 -0.00113    44.8    54.4
366  -8424.8 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -24.7   -17.3 -0.00088         -0.00090   -25.8   -18.2
            C:62105 DAYTON 869.0 62114 RDFTAP 869.0 1    1742
              Open 62105 DAYTON 869.0 62114 RDFTAP 869.0 1                         -0.02535 -0.00056   -41.1   -36.4
367  -8424.6 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -67.3   -48.0 -0.00229         -0.00216   -65.1   -46.9
            C:61906 MAPLE LF 161 61948 BYRON  5 161 1    3374
              Open 61906 MAPLE LF 161 61948 BYRON  5 161 1                          0.01144 -0.01198  -196.1   -95.1
368  -8409.0 L:60831 EASTWD2869.0 62347 EAGLELK869.0 1         108.8    72.0  0.00437          0.00322    61.5    34.5
            C:60650 WILMART869.0 62336 JHNSNTP869.0 1    3043
              Open 60650 WILMART869.0 62336 JHNSNTP869.0 1                          0.47783  0.00242    98.9    78.6
369  -8395.3 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -66.1   -48.0 -0.00216         -0.00216   -65.1   -47.0
            C:60007 RIVRS76G14.0 60240 RIVRSID7 115 1    2900
              Open 60007 RIVRS76G14.0 60240 RIVRSID7 115 1                          0.00660  0.00000  -155.5  -155.5
370  -8382.1 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -66.1   -48.0 -0.00216         -0.00216   -65.1   -47.0
            C:022       5                                3709
              Open 60221 KOLMNLK3 345 60251 TERMINL3 345 1                         -0.00115 -0.02272   209.4   399.8
              Open 60202 COON CK3 345 60251 TERMINL3 345 1                         -0.00140  0.01927   549.2   387.7
              Open 60251 TERMINL3 345 61492 TERMID1Y 345 1     NA
              Open 60252 TERMINL7 115 61492 TERMID1Y 345 1                          0.00000  0.00172  -377.2  -391.6
              Open 61187 TERTER1934.5 61492 TERMID1Y 345 1     NA
              Open 60251 TERMINL3 345 61491 TERMID2Y 345 1     NA
              Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                          0.00713  0.00000     0.7     0.7
              Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
371  -8372.9 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -66.9   -48.0 -0.00226         -0.00216   -65.1   -47.0
            C:715       4                                3751
              Open 60243 SCOTTAP7 115 62666 GLNDALE7 115 1                         -0.02416  0.00356    31.4     1.6
              Open 62666 GLNDALE7 115 62672 GLNDALE869.0 1                         -0.02559  0.00008    32.9    32.2
              Open 60243 SCOTTAP7 115 60244 SCOTTCO7 115 1                         -0.00714  0.00158    27.4    14.2
              Open 60194 CARVRCO7 115 60243 SCOTTAP7 115 1                         -0.00232  0.00000     1.2     1.2
              Open 60194 CARVRCO7 115 60931 CARVRCO869.0 1                         -0.00028 -0.00021    30.7    32.4
372  -8367.1 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -24.8   -13.7 -0.00132         -0.00090   -18.3   -10.8
            C:60703 WATKINS869.0 62620 WATKINS869.0 1    3074
              Open 60703 WATKINS869.0 62620 WATKINS869.0 1                          0.32182 -0.00132   -20.2    -9.2
373  -8366.5 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -24.1   -13.7 -0.00124         -0.00090   -18.3   -10.8
            C:60356 PAYNES 4 230 63050 WILLMAR4 230 C1   1366
              Open 60356 PAYNES 4 230 63050 WILLMAR4 230 C1                         0.03360 -0.01032  -174.0   -87.6
374  -8366.5 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -24.1   -13.7 -0.00124         -0.00090   -18.3   -10.8
            C:60156 PYNSVIL7 115 60356 PAYNES 4 230 C1   1069
              Open 60156 PYNSVIL7 115 60356 PAYNES 4 230 C1                         0.03360 -0.01032  -174.0   -87.6
375  -8357.0 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -66.6   -48.0 -0.00222         -0.00216   -65.1   -47.1
            C:60826 TRAVRSE869.0 62350 TRAVERS869.0 1    3177
              Open 60826 TRAVRSE869.0 62350 TRAVERS869.0 1                         -0.02661  0.00249    56.2    35.4
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376  -8352.4 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -24.7   -17.3 -0.00088         -0.00090   -25.8   -18.3
             C:62114 RDFTAP 869.0 63020 ELK RIV869.0 1    1753
               Open 62114 RDFTAP 869.0 63020 ELK RIV869.0 1                          -0.02535 -0.00056   -43.6   -38.9
377  -8343.9 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -21.6   -13.7 -0.00095         -0.00090   -18.3   -10.8
             C:60152 MNTCELO4 230 63043 ELK RIV4 230 1    1060
               Open 60152 MNTCELO4 230 63043 ELK RIV4 230 1                          -0.01554  0.00333   216.0   188.1
378  -8288.5 L:60145 FRANKLN7 115 60728 FRANKLN869.0 2          62.5    47.0  0.00187          0.00115    38.5    28.9
             C:60145 FRANKLN7 115 60728 FRANKLN869.0 1    1040
               Open 60145 FRANKLN7 115 60728 FRANKLN869.0 1                           0.62456  0.00115    38.5    28.9
379  -8288.5 L:60145 FRANKLN7 115 60728 FRANKLN869.0 1          62.5    47.0  0.00187          0.00115    38.5    28.9
             C:60145 FRANKLN7 115 60728 FRANKLN869.0 2    1041
               Open 60145 FRANKLN7 115 60728 FRANKLN869.0 2                           0.62456  0.00115    38.5    28.9
380  -8281.1 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -23.8   -17.3 -0.00079         -0.00090   -25.8   -18.4
             C:022       3                                3707
               Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                           0.00251  0.02473   273.5    68.7
               Open 60202 COON CK3 345 60251 TERMINL3 345 1                           0.00246  0.01927   549.2   389.7
               Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                          -0.00003  0.00023   225.9   224.0
               Open 60251 TERMINL3 345 61491 TERMID2Y 345 1                          -0.00019 -0.00173   381.0   395.3
               Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                           0.00164  0.00000     0.2     0.2
               Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
381  -8266.7 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          21.0    13.7  0.00088          0.00090    14.0     6.6
             C:680    P2                                  3736
               Open 60143 BENTON 7 115 63045 BENTON 4 230 P2                         -0.00068  0.00362  -138.3  -168.3
               Open 62297 BENTON 869.0 63045 BENTON 4 230 1                          -0.09533  0.00013   -71.9   -72.9
382  -8266.7 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          21.0    13.7  0.00088          0.00090    14.0     6.6
             C:680                                        3735
               Open 60143 BENTON 7 115 63045 BENTON 4 230 P2                         -0.00068  0.00362  -138.3  -168.3
               Open 62297 BENTON 869.0 63045 BENTON 4 230 1                          -0.09533  0.00013   -71.9   -72.9
383  -8265.4 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          27.3    19.3  0.00097          0.00055    31.8    27.3
             C:60707 BLUEHRN869.0 60711 RICHMND869.0 1    1409
               Open 60707 BLUEHRN869.0 60711 RICHMND869.0 1                          -0.34070 -0.00123    13.2    23.4
384  -8247.4 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -66.2   -48.0 -0.00220         -0.00216   -65.1   -47.3
             C:022       3                                3707
               Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          -0.00100  0.02473   273.5    69.5
               Open 60202 COON CK3 345 60251 TERMINL3 345 1                          -0.00111  0.01927   549.2   390.3
               Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                          -0.00023  0.00023   225.9   224.0
               Open 60251 TERMINL3 345 61491 TERMID2Y 345 1                          -0.00039 -0.00173   381.0   395.3
               Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                           0.00684  0.00000     0.2     0.2
               Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
385  -8228.4 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -69.4   -48.0 -0.00260         -0.00216   -65.1   -47.3
             C:60818 ZUMBRTA869.0 60819 CHERYTP869.0 1    1480
               Open 60818 ZUMBRTA869.0 60819 CHERYTP869.0 1                           0.27260 -0.00161   -15.7    -2.4
386  -8219.1 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -63.4   -48.0 -0.00188         -0.00216   -65.1   -47.4
             C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
               Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.00444  0.06345   376.0  -145.5
387  -8205.5 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -66.7   -48.0 -0.00228         -0.00216   -65.1   -47.4
             C:62980 MCLEOD 4 230 63054 PANTHER4 230 1    3396
               Open 62980 MCLEOD 4 230 63054 PANTHER4 230 1                           0.00732 -0.01700  -223.7   -84.2
388  -8205.2 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -23.8   -17.3 -0.00079         -0.00090   -25.8   -18.4
             C:CNC-KOL/TER3                               3636
               Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                           0.00248  0.02473   273.5    70.5
               Open 60202 COON CK3 345 60251 TERMINL3 345 1                           0.00241  0.01927   549.2   391.1
389  -8200.0 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -62.0   -48.0 -0.00170         -0.00216   -65.1   -47.4
             C:60808 EAGLELK869.0 62679 ELYSNTP869.0 1    3158
               Open 60808 EAGLELK869.0 62679 ELYSNTP869.0 1                           0.14421  0.00315    21.6    -4.2
390  -8199.9 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -24.7   -17.3 -0.00090         -0.00090   -25.8   -18.4
             C:62948 BLACKLK869.0 62949 BLKLKTP869.0 1    2022
               Open 62948 BLACKLK869.0 62949 BLKLKTP869.0 1                           0.20362  0.00000     5.5     5.5
391  -8194.9 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -66.3   -48.0 -0.00223         -0.00216   -65.1   -47.4
             C:60150 MNVLTAP4 230 63054 PANTHER4 230 1    2955
               Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                          -0.00423  0.01686   278.5   140.3
392  -8191.5 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -21.0   -13.7 -0.00090         -0.00090   -18.3   -10.9
             C:60001 SHERC32G24.0 60160 SHERCO 3 345 1    2894
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                Open 60001 SHERC32G24.0 60160 SHERCO 3 345 1                          0.00392  0.00000  -711.4  -711.4
393  -8184.6 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -21.0   -13.7 -0.00090         -0.00090   -18.3   -10.9
             C:60000 SHERC31G24.0 60160 SHERCO 3 345 1    2893
                Open 60000 SHERC31G24.0 60160 SHERCO 3 345 1                          0.00392  0.00000  -709.8  -709.8
394  -8178.3 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -76.0   -47.0 -0.00354         -0.00211   -72.7   -55.4
             C:61948 BYRON  5 161 61964 OWATNNA5 161 1    1698
                Open 61948 BYRON  5 161 61964 OWATNNA5 161 1                          0.07071 -0.02026   -46.5   119.2
395  -8156.3 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -20.2   -13.7 -0.00080         -0.00090   -18.3   -10.9
             C:62100 BIG LAK869.0 62142 REMMLTP869.0 1    1733
                Open 62100 BIG LAK869.0 62142 REMMLTP869.0 1                         -0.13540 -0.00074    14.3    20.4
396  -8139.6 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -66.5   -48.0 -0.00227         -0.00216   -65.1   -47.5
             C:795                                        3768
                Open 60150 MNVLTAP4 230 66550 GRANITF4 230 1                          0.00667 -0.01397  -262.1  -148.4
                Open 60148 MINVALY7 115 60149 MINVALT4 230 C1                        -0.00723  0.00290    16.5    -7.1
                Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                          0.00674  0.00000     0.0     0.0
                Open 60149 MINVALT4 230 60150 MNVLTAP4 230 1     NA
                Open 60742 PANTHER869.0 63054 PANTHER4 230 1                         -0.00995  0.00014   -45.6   -46.7
397  -8139.5 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -75.8   -47.0 -0.00354         -0.00211   -72.7   -55.5
             C:BYN-WOW/KAN5                               3656
                Open 61948 BYRON  5 161 61964 OWATNNA5 161 1                          0.07071 -0.02026   -46.5   118.5
                Open 60799 KASSON 869.0 61161 BYRON  869.0 1                          0.00380  0.00000    36.1    36.1
398  -8134.8 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          20.9    13.7  0.00088          0.00090    14.0     6.8
             C:62297 BENTON 869.0 63045 BENTON 4 230 1    3382
                Open 62297 BENTON 869.0 63045 BENTON 4 230 1                         -0.09530  0.00013   -71.9   -72.9
399  -8106.3 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -24.2   -17.3 -0.00086         -0.00090   -25.8   -18.5
             C:60202 COON CK3 345 63031 BUNKER 3 345 1    1159
                Open 60202 COON CK3 345 63031 BUNKER 3 345 1                         -0.00512 -0.00793  -300.1  -235.8
400  -8072.8 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -20.9   -13.7 -0.00089         -0.00090   -18.3   -11.0
             C:63031 BUNKER 3 345 63046 BUNKER 4 230 1    2037
                Open 63031 BUNKER 3 345 63046 BUNKER 4 230 1                         -0.01369 -0.00026   193.8   195.9
401  -8060.5 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -23.6   -17.3 -0.00078         -0.00090   -25.8   -18.5
             C:60150 MNVLTAP4 230 66550 GRANITF4 230 1    1056
                Open 60150 MNVLTAP4 230 66550 GRANITF4 230 1                         -0.00835 -0.01397  -262.1  -149.5
402  -8060.4 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -66.2   -48.0 -0.00226         -0.00216   -65.1   -47.7
             C:715       2                                3749
                Open 60243 SCOTTAP7 115 62666 GLNDALE7 115 1                         -0.02476  0.00356    31.4     2.8
                Open 60242 SAVAGE 7 115 62668 EGLCKTP7 115 1     NA
                Open 62666 GLNDALE7 115 62672 GLNDALE869.0 1                         -0.02556  0.00008    32.9    32.2
                Open 60243 SCOTTAP7 115 60244 SCOTTCO7 115 1                         -0.00651  0.00158    27.4    14.6
                Open 60194 CARVRCO7 115 60243 SCOTTAP7 115 1                         -0.00273  0.00000     1.2     1.2
                Open 60194 CARVRCO7 115 60931 CARVRCO869.0 1                          0.00007 -0.00021    30.7    32.4
                Open 60190 BLK DOG7 115 60242 SAVAGE 7 115 1                          0.00520 -0.00055    49.7    54.2
                Open 62668 EGLCKTP7 115 62975 SHAKOPE7 115 1     NA
                Open 60244 SCOTTCO7 115 62975 SHAKOPE7 115 1                          0.00377  0.00000    71.1    71.1
                Open 60244 SCOTTCO7 115 60890 SCOTTCO869.0 2                          0.00339 -0.00079    33.6    39.9
403  -8056.6 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -24.8   -17.3 -0.00093         -0.00090   -25.8   -18.6
             C:PKL-GSL 115                                3665
                Open 60211 GLESNLK7 115 60234 PARKERS7 115 1                         -0.00946  0.00152   -54.0   -66.2
                Open 60211 GLESNLK7 115 60234 PARKERS7 115 2                         -0.00946  0.00152   -54.0   -66.2
404  -8056.6 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -24.8   -17.3 -0.00093         -0.00090   -25.8   -18.6
             C:720                                        3753
                Open 60211 GLESNLK7 115 60234 PARKERS7 115 1                         -0.00946  0.00152   -54.0   -66.2
                Open 60211 GLESNLK7 115 60234 PARKERS7 115 2                         -0.00946  0.00152   -54.0   -66.2
405  -8050.6 L:62003 JOHNJCT7 115 63216 ORTONVL7 115 1        -129.3   -96.6 -0.00407         -0.00270   -85.9   -64.2
             C:63314 BIGSTON4 230 63325 BROWNSV4 230 1    2189
                Open 63314 BIGSTON4 230 63325 BROWNSV4 230 1                         -0.22624  0.00605   191.8   143.1
406  -8039.9 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -66.2   -48.0 -0.00226         -0.00216   -65.1   -47.7
             C:SCO-SSK/CAR7                               3678
                Open 60244 SCOTTCO7 115 62975 SHAKOPE7 115 1                         -0.00559  0.00055    21.4    17.0
                Open 60243 SCOTTAP7 115 60244 SCOTTCO7 115 1                          0.01987  0.00158    27.4    14.7
                Open 60194 CARVRCO7 115 60243 SCOTTAP7 115 1                         -0.02587  0.00514    60.0    18.8
                Open 60243 SCOTTAP7 115 62666 GLNDALE7 115 1                          0.02335  0.00000     1.2     1.2
407  -8034.4 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -66.3   -48.0 -0.00227         -0.00216   -65.1   -47.8
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            C:60189 BLK DOG4 230 60190 BLK DOG7 115 C1   1120
              Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                          -0.00893  0.01298   132.0    27.7
408  -8034.4 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -66.3   -48.0 -0.00227         -0.00216   -65.1   -47.8
            C:810   C1                                     3770
              Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                           0.00893 -0.01298  -132.0   -27.7
              Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                          0.00931  0.00000    -0.0    -0.0
409  -8034.4 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -66.3   -48.0 -0.00227         -0.00216   -65.1   -47.8
            C:60189 BLK DOG4 230 62980 MCLEOD 4 230 1    1121
              Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                           0.00893 -0.01298  -132.0   -27.7
410  -7974.3 L:60208 EDINA  7 115 60263 EDEN PR7 115 1        -370.5  -318.0 -0.00658         -0.00290  -288.5  -265.4
            C:MEL-BCR/PKL7                                 3686
              Close 60181 ALDRICH7 115 60182 ALDRICH7 115 1
              Open 60227 MEDLAKE7 115 60259 BASCRK 7 115 1                           0.18916  0.00000  -183.1  -183.1
              Open 60234 PARKERS7 115 60346 CEDARLK7 115 P1                         -0.42186 -0.00000   121.0   121.0
              Open 60249 STLSPRK7 115 60346 CEDARLK7 115 P1                          0.34675  0.00000    10.7    10.7
411  -7970.6 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          20.6    13.7  0.00086          0.00090    14.0     6.9
            C:62139 CABLETP869.0 62297 BENTON 869.0 1    1787
              Open 62139 CABLETP869.0 62297 BENTON 869.0 1                          -0.15187  0.00024   -42.9   -44.8
412  -7939.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -65.5   -48.0 -0.00221         -0.00216   -58.1   -41.0
            C:60905 FRMNGTN869.0 62259 LKMARN 869.0 1    3209
              Open 60905 FRMNGTN869.0 62259 LKMARN 869.0 1                           0.20992 -0.00024   -35.3   -33.3
413  -7925.4 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -24.2   -13.7 -0.00132         -0.00090   -18.3   -11.2
            C:60703 WATKINS869.0 60704 KIMBALL869.0 1    1407
              Open 60703 WATKINS869.0 60704 KIMBALL869.0 1                          -0.32182  0.00132    18.4     7.9
414  -7919.7 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -65.1   -48.0 -0.00216
              Base Case
415  -7910.1 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          27.5    19.3  0.00104          0.00055    31.8    27.5
            C:60686 E MELRO869.0 60754 MELRSMU869.0 1    1399
              Open 60686 E MELRO869.0 60754 MELRSMU869.0 1                          -0.62927 -0.00078     6.8    13.0
416  -7894.3 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -55.7   -47.0 -0.00111         -0.00211   -72.7   -56.0
            C:60794 NRSTRND869.0 62389 KENYON 869.0 1    3145
              Open 60794 NRSTRND869.0 62389 KENYON 869.0 1                           0.62236  0.00161    27.2    14.5
417  -7873.6 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -63.8   -48.0 -0.00201         -0.00216   -65.1   -48.1
            C:60108 WILMART3 345 60110 WILMART7 115 1     956
              Open 60108 WILMART3 345 60110 WILMART7 115 1                           0.01115  0.01312   112.2     8.9
418  -7872.8 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -63.8   -48.0 -0.00200         -0.00216   -65.1   -48.1
            C:60108 WILMART3 345 60110 WILMART7 115 2     957
              Open 60108 WILMART3 345 60110 WILMART7 115 2                           0.01135  0.01343   114.7     8.9
419  -7865.6 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -63.7   -48.0 -0.00200         -0.00216   -65.1   -48.1
            C:60113 DOME   7 115 60830 EASTWD18 115 P1    972
              Open 60113 DOME   7 115 60830 EASTWD18 115 P1                          0.01532  0.01053    90.4     7.6
420  -7849.9 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -63.7   -48.0 -0.00200         -0.00216   -65.1   -48.2
            C:60110 WILMART7 115 60113 DOME   7 115 C1    963
              Open 60110 WILMART7 115 60113 DOME   7 115 C1                          0.01532  0.01053    92.5     9.8
421  -7830.1 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -20.7   -13.7 -0.00090         -0.00090   -18.3   -11.2
            C:62984 HUTCHPT869.0 62988 HTCHHTI869.0 1    2028
              Open 62984 HUTCHPT869.0 62988 HTCHHTI869.0 1                          -0.08394  0.00000    29.3    29.3
422  -7813.3 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -24.1   -17.3 -0.00087         -0.00090   -25.8   -18.8
            C:SHC-CNC/BUL3                                 3633
              Open 60160 SHERCO 3 345 60202 COON CK3 345 1                           0.00207  0.00770   469.4   409.3
              Open 60160 SHERCO 3 345 63031 BUNKER 3 345 1                           0.00142  0.00766   498.2   438.3
423  -7810.0 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -62.4   -48.0 -0.00185         -0.00216   -65.1   -48.2
            C:60110 WILMART7 115 60830 EASTWD18 115 P1    968
              Open 60110 WILMART7 115 60830 EASTWD18 115 P1                          0.02046  0.01501   128.8    11.6
424  -7809.8 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -23.3   -13.7 -0.00122         -0.00090   -18.3   -11.3
            C:500                                          3721
              Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                           0.03165 -0.01028  -223.5  -143.2
              Open 62427 WILLMAR869.0 63050 WILLMAR4 230 1                          -0.04414  0.00004   -47.0   -47.3
425  -7799.5 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -24.8   -17.3 -0.00096         -0.00090   -25.8   -18.8
            C:60707 BLUEHRN869.0 60717 WAKEFLD869.0 1    1410
              Open 60707 BLUEHRN869.0 60717 WAKEFLD869.0 1                          -0.04802  0.00123   -21.3   -30.9
426  -7792.0 L:60208 EDINA  7 115 60263 EDEN PR7 115 1        -340.6  -318.0 -0.00289         -0.00290  -288.5  -266.0
            C:60234 PARKERS7 115 60346 CEDARLK7 115 P1   1225
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                Open 60234 PARKERS7 115 60346 CEDARLK7 115 P1                        -0.43003 -0.00000   121.0   121.0
427  -7782.3 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -66.9   -48.0 -0.00243         -0.00216   -65.1   -48.3
             C:60192 BLUE LK3 345 60217 INVRHLS3 345 1    1126
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.00564  0.04835   323.7   -52.6
428  -7767.9 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -27.1   -17.3 -0.00126         -0.00090   -25.8   -18.8
             C:009   8                                    3705
                Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                          0.01013 -0.01571   221.8   343.8
                Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                          0.00202  0.00781   476.3   415.6
                Open 60202 COON CK3 345 60272 MPLEGV23 345 1                          0.00587  0.00000     4.2     4.2
                Open 60202 COON CK3 345 63030 DICKNSN3 345 1                          0.01261 -0.01744  -365.9  -230.5
                Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                          0.00017 -0.00157   390.0   402.2
                Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                          0.00571  0.00000     0.2     0.2
                Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1     NA
429  -7738.0 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -20.4   -13.7 -0.00086         -0.00090   -18.3   -11.3
             C:62122 WESTEND869.0 62125 BECKER 869.0 1    1764
                Open 62122 WESTEND869.0 62125 BECKER 869.0 1                         -0.15187 -0.00024    13.8    15.7
430  -7681.8 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          23.9    13.7  0.00132          0.00090    14.0     7.2
             C:60717 WAKEFLD869.0 62846 FRHV TP869.0 1    3083
                Open 60717 WAKEFLD869.0 62846 FRHV TP869.0 1                          0.32182  0.00132    30.5    20.3
431  -7542.4 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -20.5   -13.7 -0.00090         -0.00090   -18.3   -11.5
             C:60005 MNTCE31G22.0 60151 MNTCELO3 345 1    2898
                Open 60005 MNTCE31G22.0 60151 MNTCELO3 345 1                          0.00375  0.00000  -588.5  -588.5
432  -7524.7 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -63.7   -48.0 -0.00209         -0.00216   -65.1   -48.9
             C:60897 LEBNON 869.0 60905 FRMNGTN869.0 1    1532
                Open 60897 LEBNON 869.0 60905 FRMNGTN869.0 1                         -0.12574 -0.00055   -10.9    -6.8
433  -7508.1 L:60808 EAGLELK869.0 62347 EAGLELK869.0 1        -104.8   -72.0 -0.00437         -0.00322   -57.6   -33.4
             C:60650 WILMART869.0 62336 JHNSNTP869.0 1    3043
                Open 60650 WILMART869.0 62336 JHNSNTP869.0 1                         -0.47783  0.00242    98.9    80.8
434  -7492.0 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -93.0   -48.0 -0.00600         -0.00216   -58.1   -42.0
             C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                         -0.03397  0.11319  1025.6   177.6
435  -7458.1 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -21.6   -13.7 -0.00105         -0.00090   -18.3   -11.6
             C:60202 COON CK3 345 63030 DICKNSN3 345 1    1158
                Open 60202 COON CK3 345 63030 DICKNSN3 345 1                          0.00903 -0.01744  -365.9  -235.9
436  -7456.0 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -19.9   -13.7 -0.00083         -0.00090   -18.3   -11.6
             C:660                                        3729
                Open 63043 ELK RIV4 230 63046 BUNKER 4 230 1                          0.01240  0.00471     6.2   -28.9
                Open 62134 ELKR14S869.0 63043 ELK RIV4 230 2                          0.02169  0.00051   -77.8   -81.6
437  -7400.1 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -64.0   -48.0 -0.00216         -0.00216   -65.1   -49.1
             C:60803 MIESTAP869.0 62238 MIESVIL869.0 1    3150
                Open 60803 MIESTAP869.0 62238 MIESVIL869.0 1                          0.06521 -0.00008    16.6    17.2
438  -7382.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -63.5   -48.0 -0.00210         -0.00216   -58.1   -42.2
             C:60217 INVRHLS3 345 60218 INVRHLS7 115 1    1197
                Open 60217 INVRHLS3 345 60218 INVRHLS7 115 1                         -0.01712 -0.00356   312.4   338.7
439  -7344.0 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -63.9   -48.0 -0.00216         -0.00216   -65.1   -49.2
             C:815                                        3772
                Open 62225 BURNVIL7 115 62226 FISCHER7 115 1                         -0.00275  0.00202   -13.9   -28.7
                Open 60343 WILLPIP7 115 62226 FISCHER7 115 1     NA
                Open 60343 WILLPIP7 115 62228 APPVLTW7 115 1     NA
                Open 62227 JOHNCAK7 115 62228 APPVLTW7 115 1                          0.01540  0.00000    75.5    75.5
440  -7337.1 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -20.2   -13.7 -0.00088         -0.00090   -18.3   -11.7
             C:62134 ELKR14S869.0 63043 ELK RIV4 230 2    1782
                Open 62134 ELKR14S869.0 63043 ELK RIV4 230 2                          0.02479  0.00051   -77.8   -81.5
441  -7332.8 L:66298 GRANITF869.0 66551 GRANITF7 115 1         -54.9   -42.0 -0.00176         -0.00071   -32.2   -26.9
             C:63050 WILLMAR4 230 66550 GRANITF4 230 1    2053
                Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                          0.10183 -0.01028  -223.5  -148.1
442  -7329.0 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -66.3   -47.0 -0.00264         -0.00211   -72.7   -57.2
             C:60107 W FARIB7 115 62865 AIRTECH7 115 1    2940
                Open 60107 W FARIB7 115 62865 AIRTECH7 115 1                         -0.10588  0.00498   -60.1   -96.6
443  -7313.0 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -159.3  -127.9 -0.00429         -0.00474  -150.7  -116.0
             C:60123 PIPESTN7 115 60125 PATHFDR7 115 1     994
                Open 60123 PIPESTN7 115 60125 PATHFDR7 115 1                         -0.09339 -0.00481    92.2   127.3
444  -7312.9 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -159.3  -127.9 -0.00429         -0.00474  -150.7  -116.0
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            C:60125 PATHFDR7 115 60129 SPLT RK7 115 1    1000
              Open 60125 PATHFDR7 115 60129 SPLT RK7 115 1                          -0.09339 -0.00481    92.2   127.3
445  -7292.9 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -62.6   -48.0 -0.00201         -0.00216   -65.1   -49.4
            C:60905 FRMNGTN869.0 62256 CSTL RK869.0 1    3208
              Open 60905 FRMNGTN869.0 62256 CSTL RK869.0 1                          -0.47993 -0.00031    -5.1    -2.8
446  -7290.7 L:62003 JOHNJCT7 115 63216 ORTONVL7 115 1        -129.6   -96.6 -0.00452         -0.00270   -85.9   -66.3
            C:63327 HANKSON4 230 63329 WAHPETN4 230 1    2192
              Open 63327 HANKSON4 230 63329 WAHPETN4 230 1                          -0.16946  0.01075   257.3   179.0
447  -7281.4 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -26.9   -17.3 -0.00132         -0.00090   -25.8   -19.2
            C:60712 ANNDALE869.0 60765 MAPLELK869.0 1    1413
              Open 60712 ANNDALE869.0 60765 MAPLELK869.0 1                          -0.32182  0.00132     3.6    -6.1
448  -7255.3 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -64.0   -48.0 -0.00221         -0.00216   -65.1   -49.4
            C:60802 CANFLS 869.0 62390 SCANNON869.0 1    3149
              Open 60802 CANFLS 869.0 62390 SCANNON869.0 1                           0.17316 -0.00031     6.0     8.3
449  -7225.7 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -22.1   -17.3 -0.00066         -0.00090   -25.8   -19.3
            C:62981 MCLEOD 7 115 62983 HUTCH3M7 115 1    2025
              Open 62981 MCLEOD 7 115 62983 HUTCH3M7 115 1                           0.05924  0.00402    62.8    33.7
450  -7223.5 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -21.1   -13.7 -0.00103         -0.00090   -18.3   -11.8
            C:63050 WILLMAR4 230 66550 GRANITF4 230 1    2053
              Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                           0.01286 -0.01028  -223.5  -149.2
451  -7206.1 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -23.9   -17.3 -0.00091         -0.00090   -25.8   -19.3
            C:009   1                                    3699
              Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                           0.00222  0.00781   476.3   420.0
              Open 60202 COON CK3 345 60272 MPLEGV23 345 1                           0.00283  0.00000     4.2     4.2
              Open 60151 MNTCELO3 345 60160 SHERCO 3 345 1                          -0.00202  0.01529  -450.2  -560.3
              Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                          -0.00015 -0.00157   390.0   401.3
              Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                           0.00298  0.00000     0.2     0.2
              Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1     NA
452  -7184.8 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -24.4   -17.3 -0.00099         -0.00090   -25.8   -19.3
            C:009   5                                    3702
              Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                           0.00621 -0.01571   221.8   334.7
              Open 60270 MPLEGV13 345 63030 DICKNSN3 345 1                           0.00010  0.00910  -358.4  -423.8
              Open 60233 PARKERS3 345 60270 MPLEGV13 345 1                          -0.00121  0.00000     1.6     1.6
453  -7182.6 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -24.4   -17.3 -0.00099         -0.00090   -25.8   -19.3
            C:PKL-DKN/ECK3                               3638
              Open 60233 PARKERS3 345 60270 MPLEGV13 345 1                           0.00010  0.00910  -356.8  -422.2
              Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                           0.00621 -0.01571   221.8   334.6
454  -7182.2 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -64.2   -48.0 -0.00225         -0.00216   -58.1   -42.6
            C:IVH-BLL/RRK3                               3646
              Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.01917  0.04835   323.7   -23.6
              Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                           0.01602  0.05191     9.8  -363.0
455  -7182.2 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -64.2   -48.0 -0.00225         -0.00216   -58.1   -42.6
            C:700    2                                   3741
              Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.01917  0.04835   323.7   -23.6
              Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                           0.01602  0.05191     9.8  -363.0
456  -7170.0 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -63.5   -48.0 -0.00216         -0.00216   -65.1   -49.6
            C:60788 VALLYTP869.0 62870 VLLYGRV869.0 1    3141
              Open 60788 VALLYTP869.0 62870 VLLYGRV869.0 1                           0.59343  0.00000     2.7     2.7
457  -7168.4 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -258.3  -200.0 -0.00813         -0.03224  -253.3   -22.2
            C:34017 CGORDO_5 161 34139 HANCOCK5 161 1      52
              Open 34017 CGORDO_5 161 34139 HANCOCK5 161 1                          -0.31619 -0.07624    15.8   562.3
458  -7138.3 L:62003 JOHNJCT7 115 63216 ORTONVL7 115 1        -125.6   -96.6 -0.00407         -0.00270   -85.9   -66.7
            C:63325 BROWNSV4 230 63327 HANKSON4 230 1    2191
              Open 63325 BROWNSV4 230 63327 HANKSON4 230 1                          -0.22624  0.00605   175.4   132.2
459  -7137.7 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -21.2   -13.7 -0.00105         -0.00090   -18.3   -11.9
            C:CNC-DKN/SHC3                               3637
              Open 60202 COON CK3 345 63030 DICKNSN3 345 1                           0.00893 -0.01744  -365.9  -241.4
              Open 60202 COON CK3 345 60272 MPLEGV23 345 1                          -0.00075 -0.00781  -472.1  -416.4
460  -7128.6 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -24.4   -17.3 -0.00100         -0.00090   -25.8   -19.4
            C:60114 ELM CRK3 345 60233 PARKERS3 345 1     975
              Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                           0.00625 -0.01571   221.8   333.8
461  -7104.8 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -19.9   -13.7 -0.00088         -0.00090   -18.3   -11.9
            C:670     2                                  3732
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                Open 60160 SHERCO 3 345 63031 BUNKER 3 345 1                          -0.01206  0.00766   498.2   443.8
                Open 60202 COON CK3 345 63031 BUNKER 3 345 1                          -0.01423 -0.00793  -300.1  -243.8
                Open 63031 BUNKER 3 345 63046 BUNKER 4 230 1                           0.01613  0.00000     4.4     4.4
462  -7100.4 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -71.9   -48.0 -0.00337         -0.00216   -65.1   -49.8
              C:60107 W FARIB7 115 61952 S FARIB5 161 1     955
                Open 60107 W FARIB7 115 61952 S FARIB5 161 1                          -0.08328  0.01456    82.2   -21.2
463  -7098.6 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          20.1    13.7  0.00091          0.00090    14.0     7.7
              C:665                                       3730
                Open 60152 MNTCELO4 230 63043 ELK RIV4 230 1                           0.01070  0.00333   216.0   192.3
                Open 62134 ELKR14S869.0 63043 ELK RIV4 230 1                          -0.02881  0.00086  -131.4  -137.5
464  -7080.2 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -71.9   -48.0 -0.00337         -0.00216   -65.1   -49.8
              C:61952 S FARIB5 161 61964 OWATNNA5 161 1    1699
                Open 61952 S FARIB5 161 61964 OWATNNA5 161 1                          -0.08328  0.01456    81.4   -21.7
465  -7069.7 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -154.9  -127.9 -0.00381         -0.00474  -150.7  -117.2
              C:60362 CHANRMB7 115 60369 FENTON 7 115 C1   1371
                Open 60362 CHANRMB7 115 60369 FENTON 7 115 C1                         -0.12650 -0.00735    32.9    84.9
466  -7042.3 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -64.0   -48.0 -0.00228         -0.00216   -65.1   -49.9
              C:60104 CANNFLS7 115 62235 EMPIRE 7 115 1    2938
                Open 60104 CANNFLS7 115 62235 EMPIRE 7 115 1                           0.06241 -0.00193    16.7    30.3
467  -7037.6 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -21.5   -17.3 -0.00060         -0.00090   -25.8   -19.5
              C:62944 GOOSETP869.0 63024 MAPLE 1G69.0 1    2019
                Open 62944 GOOSETP869.0 63024 MAPLE 1G69.0 1                          -0.30521 -0.00099   -14.0    -7.1
468  -7037.2 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -21.5   -17.3 -0.00060         -0.00090   -25.8   -19.5
              C:62935 MAPLELK869.0 63024 MAPLE 1G69.0 1    2010
                Open 62935 MAPLELK869.0 63024 MAPLE 1G69.0 1                           0.30521  0.00099    14.0     7.1
469  -7030.3 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -66.2   -48.0 -0.00260         -0.00216   -58.1   -43.0
              C:60791 FARIBLT869.0 60794 NRSTRND869.0 P1   1465
                Open 60791 FARIBLT869.0 60794 NRSTRND869.0 P1                         -0.27260  0.00161    29.8    18.5
470  -7020.6 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -21.1   -13.7 -0.00105         -0.00090   -18.3   -12.0
              C:009   4                                   3701
                Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                           0.00074  0.00781   476.3   421.4
                Open 60202 COON CK3 345 60272 MPLEGV23 345 1                           0.00396  0.00000     4.2     4.2
                Open 60202 COON CK3 345 63030 DICKNSN3 345 1                           0.00896 -0.01744  -365.9  -243.5
                Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                           0.00029 -0.00157   390.0   401.0
                Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                           0.00368  0.00000     0.2     0.2
                Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1     NA
471  -6997.2 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -23.6   -17.3 -0.00090         -0.00090   -25.8   -19.5
              C:62932 GOOSELK869.0 62944 GOOSETP869.0 1    2005
                Open 62932 GOOSELK869.0 62944 GOOSETP869.0 1                           0.23533  0.00000     9.4     9.4
472  -6987.4 L:62427 WILLMAR869.0 62429 PNNCKTP869.0 1         -36.6   -24.3 -0.00176         -0.00071   -13.8    -8.9
              C:63050 WILLMAR4 230 66550 GRANITF4 230 1    2053
                Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                           0.10183 -0.01028  -223.5  -151.6
473  -6952.4 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -61.7   -48.0 -0.00197         -0.00216   -65.1   -50.1
              C:60808 EAGLELK869.0 62347 EAGLELK869.0 1    3156
                Open 60808 EAGLELK869.0 62347 EAGLELK869.0 1                          -0.05926 -0.00322   -57.6   -35.2
474  -6947.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -55.3   -48.0 -0.00106         -0.00216   -58.1   -43.1
              C:34006 LAKEFLD3 345 60331 LKFLDXL3 345 1      21
                Open 34006 LAKEFLD3 345 60331 LKFLDXL3 345 1                           0.00802  0.13721   347.7  -605.7
475  -6946.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -63.0   -48.0 -0.00216         -0.00216   -58.1   -43.1
              C:60002 SHERC33G26.0 60160 SHERCO 3 345 1    2895
                Open 60002 SHERC33G26.0 60160 SHERCO 3 345 1                           0.00560  0.00000  -868.0  -868.0
476  -6902.4 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -63.3   -48.0 -0.00221         -0.00216   -65.1   -50.2
              C:60801 CNFLSTR869.0 60802 CANFLS 869.0 1    1473
                Open 60801 CNFLSTR869.0 60802 CANFLS 869.0 1                           0.17316 -0.00031    10.5    12.7
477  -6885.8 L:60756 ALBANY 869.0 62838 FARMING869.0 1         -32.6   -27.6 -0.00072         -0.00055   -24.8   -21.0
              C:60753 MEIRGRV869.0 60768 ELRSATP869.0 1    1434
                Open 60753 MEIRGRV869.0 60768 ELRSATP869.0 1                           0.38192 -0.00045   -20.3   -17.2
478  -6871.7 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -62.4   -48.0 -0.00210         -0.00216   -65.1   -50.3
              C:60790 FAIRPRK869.0 60791 FARIBLT869.0 1    1462
                Open 60790 FAIRPRK869.0 60791 FARIBLT869.0 1                          -0.11872 -0.00050   -22.5   -19.0
479  -6854.5 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          26.4    19.3  0.00104          0.00055    31.8    28.1
              C:60686 E MELRO869.0 62829 MILWDTP869.0 1    3067
                Open 60686 E MELRO869.0 62829 MILWDTP869.0 1                           0.62927  0.00078    -8.6   -13.9
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480  -6845.3 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -62.8   -48.0 -0.00216         -0.00216   -65.1   -50.3
             C:60110 WILMART7 115  8006 G261-CT115.0 1    2942
               Open 60110 WILMART7 115  8006 G261-CT115.0 1                          -0.01359  0.00000  -170.5  -170.5
481  -6845.3 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -62.8   -48.0 -0.00216         -0.00216   -65.1   -50.3
             C:60110 WILMART7 115  8007 G261-CT215.0 1    2943
               Open 60110 WILMART7 115  8007 G261-CT215.0 1                          -0.01359  0.00000  -170.5  -170.5
482  -6837.4 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -62.7   -48.0 -0.00216         -0.00216   -65.1   -50.3
             C:60108 WILMART3 345  8001 G261-ST 19.5 1    2941
               Open 60108 WILMART3 345  8001 G261-ST 19.5 1                          -0.00716  0.00000  -326.0  -326.0
483  -6833.6 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -61.4   -48.0 -0.00197         -0.00216   -65.1   -50.3
             C:60831 EASTWD2869.0 62347 EAGLELK869.0 1    3181
               Open 60831 EASTWD2869.0 62347 EAGLELK869.0 1                           0.05926  0.00322    61.5    39.5
484  -6815.4 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -61.6   -48.0 -0.00199         -0.00216   -58.1   -43.4
             C:60103 CANNFLS5 161 63071 SPRNGCK5 161 1    2937
               Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                           0.05494  0.00307   -62.4   -83.2
485  -6813.0 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -160.2  -127.9 -0.00474         -0.00474  -150.7  -118.4
             C:63314 BIGSTON4 230 63315 BIGSTN1G24.0 1    3460
               Open 63314 BIGSTON4 230 63315 BIGSTN1G24.0 1                           0.02113  0.00000  -450.6  -450.6
486  -6811.5 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -20.9   -17.3 -0.00052         -0.00090   -25.8   -19.7
             C:62980 MCLEOD 4 230 63054 PANTHER4 230 1    3396
               Open 62980 MCLEOD 4 230 63054 PANTHER4 230 1                          -0.02196 -0.01700  -223.7  -107.9
487  -6809.3 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -67.0   -48.0 -0.00280         -0.00216   -65.1   -50.4
             C:BLL-PRI/IVH3                               3641
               Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                           0.00653 -0.03963    90.2   360.0
               Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.00786  0.04835   323.7    -5.5
488  -6802.0 L:60170 MARSHAL7 115 60371 ERIE RD7 115 1         147.8   127.9  0.00293          0.00364   106.4    81.6
             C:60286 NOBLES 3 345 60287 NOBLES 7 115 C1   1292
               Open 60286 NOBLES 3 345 60287 NOBLES 7 115 C1                         -0.09719  0.00735  -426.7  -476.7
489  -6794.7 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -61.5   -48.0 -0.00199         -0.00216   -58.1   -43.5
             C:60103 CANNFLS5 161 60104 CANNFLS7 115 1     945
               Open 60103 CANNFLS5 161 60104 CANNFLS7 115 1                          -0.05494 -0.00307    61.6    82.4
490  -6789.8 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -61.5   -48.0 -0.00199         -0.00216   -58.1   -43.5
             C:740    2                                   3758
               Open 60103 CANNFLS5 161 60104 CANNFLS7 115 1                          -0.05494 -0.00307    61.6    82.4
               Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                           0.01291  0.00000     0.7     0.7
491  -6777.9 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -20.3   -13.7 -0.00098         -0.00090   -18.3   -12.2
             C:60652 CROWRV 869.0 62931 DELANO 869.0 1    1381
               Open 60652 CROWRV 869.0 62931 DELANO 869.0 1                          -0.07959  0.00100    25.8    19.1
492  -6765.9 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -56.8   -47.0 -0.00145         -0.00211   -72.7   -58.4
             C:60786 DUNDAS 869.0 60788 VALLYTP869.0 1    1458
               Open 60786 DUNDAS 869.0 60788 VALLYTP869.0 1                          -0.30553 -0.00216   -51.9   -37.3
493  -6759.8 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -65.5   -48.0 -0.00260         -0.00216   -58.1   -43.5
             C:60794 NRSTRND869.0 62389 KENYON 869.0 1    3145
               Open 60794 NRSTRND869.0 62389 KENYON 869.0 1                          -0.27260  0.00161    27.2    16.3
494  -6746.2 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          17.1    13.7  0.00051          0.00090    14.0     8.0
             C:62929 ALBERTV869.0 62949 BLKLKTP869.0 1    2001
               Open 62929 ALBERTV869.0 62949 BLKLKTP869.0 1                           0.31429 -0.00123     9.8    18.1
495  -6713.4 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -19.8   -13.7 -0.00090         -0.00090   -18.3   -12.2
             C:61910 MILACA 4 230 63045 BENTON 4 230 1    3375
               Open 61910 MILACA 4 230 63045 BENTON 4 230 1                           0.01741 -0.00032   -86.1   -84.0
496  -6713.4 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -19.8   -13.7 -0.00090         -0.00090   -18.3   -12.2
             C:61910 MILACA 4 230 62301 MILACA 869.0 1    1684
               Open 61910 MILACA 4 230 62301 MILACA 869.0 1                          -0.01741  0.00032    86.1    84.0
497  -6645.0 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          22.5    13.7  0.00132          0.00090    14.0     8.1
             C:60705 LUXBGTP869.0 62846 FRHV TP869.0 1    3078
               Open 60705 LUXBGTP869.0 62846 FRHV TP869.0 1                          -0.32182 -0.00132   -26.2   -17.4
498  -6620.7 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -65.2   -48.0 -0.00260         -0.00216   -58.1   -43.8
             C:60797 KENYNTP869.0 62389 KENYON 869.0 1    3147
               Open 60797 KENYNTP869.0 62389 KENYON 869.0 1                           0.27260 -0.00161   -25.9   -15.2
499  -6618.5 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -60.6   -47.0 -0.00205         -0.00211   -72.7   -58.7
             C:60107 W FARIB7 115 60792 WFARBLT869.0 P2    954
               Open 60107 W FARIB7 115 60792 WFARBLT869.0 P2                          0.13966  0.00042    86.7    83.9
500  -6609.8 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -61.0   -48.0 -0.00197         -0.00216   -65.1   -50.8
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            C:60650 WILMART869.0 60831 EASTWD2869.0 1    1377
              Open 60650 WILMART869.0 60831 EASTWD2869.0 1                                0.05926  0.00322    68.9    47.7
501  -6582.1 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1          -19.3   -13.7 -0.00085         -0.00090   -18.3   -12.4
            C:760                                        3762
              Open 60105 PR ISLD3 345 60236 REDROCK3 345 1                           -0.00133 -0.01690   390.7   501.9
              Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                           -0.00133 -0.01722   398.2   511.5
502  -6582.1 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1          -19.3   -13.7 -0.00085         -0.00090   -18.3   -12.4
            C:PRI-RRK/RRK3                               3647
              Open 60105 PR ISLD3 345 60236 REDROCK3 345 1                           -0.00133 -0.01690   390.7   501.9
              Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                           -0.00133 -0.01722   398.2   511.5
503  -6581.6 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1           19.4    13.7  0.00086          0.00090    14.0     8.1
            C:62138 BRGGLKS869.0 62139 CABLETP869.0 1    1785
              Open 62138 BRGGLKS869.0 62139 CABLETP869.0 1                           -0.15187  0.00024   -35.0   -36.6
504  -6567.6 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -155.4  -127.9 -0.00419         -0.00474  -150.7  -119.5
            C:34006 LAKEFLD3 345 60286 NOBLES 3 345 C1     20
              Open 34006 LAKEFLD3 345 60286 NOBLES 3 345 C1                           0.02172  0.02531  -218.6  -384.8
505  -6540.4 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1          -62.1   -48.0 -0.00216         -0.00216   -58.1   -44.0
            C:60001 SHERC32G24.0 60160 SHERCO 3 345 1    2894
              Open 60001 SHERC32G24.0 60160 SHERCO 3 345 1                            0.00560  0.00000  -711.4  -711.4
506  -6536.3 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1          -62.1   -48.0 -0.00216         -0.00216   -58.1   -44.0
            C:60000 SHERC31G24.0 60160 SHERCO 3 345 1    2893
              Open 60000 SHERC31G24.0 60160 SHERCO 3 345 1                            0.00560  0.00000  -709.8  -709.8
507  -6518.8 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1          -19.3   -13.7 -0.00086         -0.00090   -18.3   -12.4
            C:60153 MNTCELO7 115 60166 SALIDA 7 115 1    1062
              Open 60153 MNTCELO7 115 60166 SALIDA 7 115 1                           -0.01196 -0.00332    86.0   107.6
508  -6495.1 L:60145 FRANKLN7 115 60728 FRANKLN869.0 2           57.3    47.0  0.00158          0.00115    38.5    31.0
            C:795                                        3768
              Open 60150 MNVLTAP4 230 66550 GRANITF4 230 1                           -0.02609 -0.01397  -262.1  -171.4
              Open 60148 MINVALY7 115 60149 MINVALT4 230 C1                           0.03519  0.00290    16.5    -2.4
              Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                           -0.01305  0.00000     0.0     0.0
              Open 60149 MINVALT4 230 60150 MNVLTAP4 230 1     NA
              Open 60742 PANTHER869.0 63054 PANTHER4 230 1                           -0.25005  0.00014   -45.6   -46.4
509  -6495.1 L:60145 FRANKLN7 115 60728 FRANKLN869.0 1           57.3    47.0  0.00158          0.00115    38.5    31.0
            C:795                                        3768
              Open 60150 MNVLTAP4 230 66550 GRANITF4 230 1                           -0.02609 -0.01397  -262.1  -171.4
              Open 60148 MINVALY7 115 60149 MINVALT4 230 C1                           0.03519  0.00290    16.5    -2.4
              Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                           -0.01305  0.00000     0.0     0.0
              Open 60149 MINVALT4 230 60150 MNVLTAP4 230 1     NA
              Open 60742 PANTHER869.0 63054 PANTHER4 230 1                           -0.25005  0.00014   -45.6   -46.4
510  -6461.2 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1          -86.8   -48.0 -0.00600         -0.00216   -51.9   -38.0
            C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
              Open 60108 WILMART3 345 60192 BLUE LK3 345 1                           -0.03397  0.11319  1025.6   294.3
511  -6449.9 L:60756 ALBANY 869.0 62838 FARMING869.0 1          -31.7   -27.6 -0.00064         -0.00055   -24.8   -21.3
            C:60749 DGLAS C869.0 60750 OSAKIS 869.0 1    1431
              Open 60749 DGLAS C869.0 60750 OSAKIS 869.0 1                           -0.25797  0.00033    26.7    24.6
512  -6445.9 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1          -54.1   -47.0 -0.00111         -0.00211   -72.7   -59.1
            C:60791 FARIBLT869.0 60794 NRSTRND869.0 P1   1465
              Open 60791 FARIBLT869.0 60794 NRSTRND869.0 P1                           0.62236  0.00161    29.8    19.4
513  -6445.8 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1          -22.2   -13.7 -0.00132         -0.00090   -18.3   -12.5
            C:60704 KIMBALL869.0 60761 SOUTHVN869.0 1    1408
              Open 60704 KIMBALL869.0 60761 SOUTHVN869.0 1                           -0.32182  0.00132    12.3     3.8
514  -6444.6 L:62947 DICKIN 869.0 62950 ROCKFRD869.0 1           33.6    30.2  0.00053          0.00008    29.3    28.7
            C:009   8                                    3705
              Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                           -0.00882 -0.01571   221.8   323.1
              Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                           -0.00074  0.00781   476.3   425.9
              Open 60202 COON CK3 345 60272 MPLEGV23 345 1                           -0.00370  0.00000     4.2     4.2
              Open 60202 COON CK3 345 63030 DICKNSN3 345 1                           -0.01810 -0.01744  -365.9  -253.5
              Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                            0.00013 -0.00157   390.0   400.1
              Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                           -0.00383  0.00000     0.2     0.2
              Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1     NA
515  -6406.5 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -162.0  -127.9 -0.00533         -0.00474  -150.7  -120.3
            C:66530 WATERTN4 230 66550 GRANITF4 230 1    2503
              Open 66530 WATERTN4 230 66550 GRANITF4 230 1                           -0.04416  0.01320   256.5   172.0
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516  -6392.6 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -160.4  -127.9 -0.00509         -0.00474  -150.7  -120.4
             C:66503 BLAIR  4 230 66550 GRANITF4 230 1    2449
               Open 66503 BLAIR  4 230 66550 GRANITF4 230 1                          -0.03586  0.00970   271.9   209.9
517  -6378.2 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -19.3   -13.7 -0.00088         -0.00090   -18.3   -12.5
             C:60142 BENTON 3 345 63045 BENTON 4 230 1    2950
               Open 60142 BENTON 3 345 63045 BENTON 4 230 1                          -0.00514 -0.00401   200.1   225.7
518  -6353.9 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -22.1   -13.7 -0.00132         -0.00090   -18.3   -12.6
             C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
               Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          -0.00372  0.11319  1025.6   306.4
519  -6353.4 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -21.3   -13.7 -0.00120         -0.00090   -18.3   -12.6
             C:60189 BLK DOG4 230 60190 BLK DOG7 115 C1   1120
               Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                         -0.02300  0.01298   132.0    49.5
520  -6353.4 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -21.3   -13.7 -0.00120         -0.00090   -18.3   -12.6
             C:60189 BLK DOG4 230 62980 MCLEOD 4 230 1    1121
               Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                           0.02300 -0.01298  -132.0   -49.5
521  -6353.4 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -21.3   -13.7 -0.00120         -0.00090   -18.3   -12.6
             C:810   C1                                   3770
               Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                           0.02300 -0.01298  -132.0   -49.5
               Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                          0.00055  0.00000    -0.0    -0.0
522  -6352.7 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -19.3   -13.7 -0.00088         -0.00090   -18.3   -12.6
             C:62293 RUSH CY869.0 63048 RUSH CY4 230 1    1848
               Open 62293 RUSH CY869.0 63048 RUSH CY4 230 1                           0.01164  0.00121   -90.1   -97.8
523  -6335.8 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -64.1   -48.0 -0.00254         -0.00216   -58.1   -44.5
             C:700    1                                   3740
               Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                           0.00507 -0.03963    90.2   341.2
               Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.02037  0.04835   323.7    17.4
               Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                           0.01540  0.05191     9.8  -319.1
524  -6323.4 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -22.1   -13.7 -0.00132         -0.00090   -18.3   -12.6
             C:60712 ANNDALE869.0 60761 SOUTHVN869.0 1    1412
               Open 60712 ANNDALE869.0 60761 SOUTHVN869.0 1                           0.32182 -0.00132   -11.8    -3.5
525  -6322.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -61.6   -48.0 -0.00216         -0.00216   -58.1   -44.5
             C:60006 KING 31G20.0 60186 AS KING3 345 1    2899
               Open 60006 KING 31G20.0 60186 AS KING3 345 1                           0.00609  0.00000  -576.7  -576.7
526  -6284.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -61.6   -48.0 -0.00216         -0.00216   -58.1   -44.6
             C:60003 PR IS31G20.0 60105 PR ISLD3 345 1    2896
               Open 60003 PR IS31G20.0 60105 PR ISLD3 345 1                           0.00645  0.00000  -531.4  -531.4
527  -6269.1 L:66504 BROOKNG7 115 66538 WHITE  7 115 1        -201.2  -160.0 -0.00657         -0.00214  -150.7  -137.3
             C:66236 WATERT1T 345 66529 WATERTN3 345 1    2238
               Open 66236 WATERT1T 345 66529 WATERTN3 345 1                           0.15472 -0.02864  -326.1  -146.6
528  -6266.4 L:66504 BROOKNG7 115 66538 WHITE  7 115 1        -201.1  -160.0 -0.00657         -0.00214  -150.7  -137.3
             C:WATERT1T                                   3786
               Open 66236 WATERT1T 345 66237 WATERT1913.8 1     NA
               Open 66236 WATERT1T 345 66529 WATERTN3 345 1                           0.15472 -0.02864  -326.1  -146.6
               Open 66236 WATERT1T 345 66530 WATERTN4 230 1                           0.08169  0.00000     0.2     0.2
529  -6264.0 L:66504 BROOKNG7 115 66538 WHITE  7 115 1        -201.1  -160.0 -0.00657         -0.00214  -150.7  -137.3
             C:66236 WATERT1T 345 66530 WATERTN4 230 1    2239
               Open 66236 WATERT1T 345 66530 WATERTN4 230 1                          -0.15472  0.02864   325.9   146.5
530  -6259.5 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          18.7    13.7  0.00080          0.00090    14.0     8.4
             C:60142 BENTON 3 345 60160 SHERCO 3 345 1    1034
               Open 60142 BENTON 3 345 60160 SHERCO 3 345 1                          -0.01186  0.00789  -394.5  -443.9
531  -6252.4 L:60145 FRANKLN7 115 60728 FRANKLN869.0 2          63.8    47.0  0.00268          0.00115    38.5    31.3
             C:60150 MNVLTAP4 230 63054 PANTHER4 230 1    2955
               Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                           0.09084  0.01686   278.5   173.1
532  -6252.4 L:60145 FRANKLN7 115 60728 FRANKLN869.0 1          63.8    47.0  0.00268          0.00115    38.5    31.3
             C:60150 MNVLTAP4 230 63054 PANTHER4 230 1    2955
               Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                           0.09084  0.01686   278.5   173.1
533  -6249.1 L:66236 WATERT1T 345 66529 WATERTN3 345 1        -443.4  -400.0 -0.00694         -0.02864  -326.1  -147.1
             C:60130 SPLTRTA3 345 66537 WHITE  3 345 1    1008
               Open 60130 SPLTRTA3 345 66537 WHITE  3 345 1                           0.49367  0.04395  -237.5  -512.2
534  -6247.8 L:66236 WATERT1T 345 66529 WATERTN3 345 1        -443.4  -400.0 -0.00694         -0.02864  -326.1  -147.2
             C:60126 SPLT RK3 345 60130 SPLTRTA3 345 1    1001
               Open 60126 SPLT RK3 345 60130 SPLTRTA3 345 1                           0.49367  0.04395  -237.5  -512.1
535  -6243.2 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -61.5   -48.0 -0.00216         -0.00216   -58.1   -44.7
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            C:60004 PR IS32G20.0 60105 PR ISLD3 345 1    2897
              Open 60004 PR IS32G20.0 60105 PR ISLD3 345 1                          0.00645  0.00000  -517.4  -517.4
536  -6236.0 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          18.7    13.7  0.00080          0.00090    14.0     8.5
            C:675                                        3734
              Open 60142 BENTON 3 345 63045 BENTON 4 230 1                         -0.00000 -0.00401   200.1   225.1
              Open 60142 BENTON 3 345 60160 SHERCO 3 345 1                         -0.01186  0.00789  -394.5  -443.7
              Open 60142 BENTON 3 345 63045 BENTON 4 230 2                         -0.01460  0.00000     1.3     1.3
537  -6223.7 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -19.3   -13.7 -0.00090         -0.00090   -18.3   -12.7
            C:60006 KING 31G20.0 60186 AS KING3 345 1    2899
              Open 60006 KING 31G20.0 60186 AS KING3 345 1                          0.00177  0.00000  -576.7  -576.7
538  -6222.2 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -157.4  -127.9 -0.00474         -0.00474  -150.7  -121.2
            C:60002 SHERC33G26.0 60160 SHERCO 3 345 1    2895
              Open 60002 SHERC33G26.0 60160 SHERCO 3 345 1                          0.00774  0.00000  -868.0  -868.0
539  -6218.3 L:66236 WATERT1T 345 66530 WATERTN4 230 1         443.2   400.0  0.00694          0.02864   325.9   147.8
            C:60130 SPLTRTA3 345 66537 WHITE  3 345 1    1008
              Open 60130 SPLTRTA3 345 66537 WHITE  3 345 1                         -0.49367  0.04395  -237.5  -510.9
540  -6217.0 L:66236 WATERT1T 345 66530 WATERTN4 230 1         443.1   400.0  0.00694          0.02864   325.9   147.8
            C:60126 SPLT RK3 345 60130 SPLTRTA3 345 1    1001
              Open 60126 SPLT RK3 345 60130 SPLTRTA3 345 1                         -0.49367  0.04395  -237.5  -510.8
541  -6204.6 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -61.4   -48.0 -0.00216         -0.00216   -58.1   -44.7
            C:60005 MNTCE31G22.0 60151 MNTCELO3 345 1    2898
              Open 60005 MNTCE31G22.0 60151 MNTCELO3 345 1                          0.00553  0.00000  -588.5  -588.5
542  -6199.2 L:60208 EDINA  7 115 60263 EDEN PR7 115 1        -335.9  -318.0 -0.00289         -0.00290  -288.5  -270.6
            C:60249 STLSPRK7 115 60346 CEDARLK7 115 P1   1255
              Open 60249 STLSPRK7 115 60346 CEDARLK7 115 P1                         0.43003  0.00000  -110.3  -110.3
543  -6194.8 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          19.3    13.7  0.00091          0.00090    14.0     8.5
            C:60162 WAKEFLD7 115 60717 WAKEFLD869.0 1    1080
              Open 60162 WAKEFLD7 115 60717 WAKEFLD869.0 1                          0.10122  0.00009    52.0    51.5
544  -6151.2 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -160.1  -127.9 -0.00524         -0.00474  -150.7  -121.5
            C:60684 YELWMED869.0 60903 LYON CO869.0 1    1396
              Open 60684 YELWMED869.0 60903 LYON CO869.0 1                          0.26654 -0.00188   -35.5   -23.9
545  -6121.9 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -61.1   -48.0 -0.00214         -0.00216   -65.1   -51.9
            C:60107 W FARIB7 115 60792 WFARBLT869.0 1     953
              Open 60107 W FARIB7 115 60792 WFARBLT869.0 1                          0.09961  0.00020    40.1    38.9
546  -6117.5 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -60.3   -48.0 -0.00201         -0.00216   -51.9   -38.7
            C:60106 PR ISLD5 161 63071 SPRNGCK5 161 1    2939
              Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                         -0.05730 -0.00258   145.8   161.5
547  -6117.4 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -60.3   -48.0 -0.00201         -0.00216   -51.9   -38.7
            C:60105 PR ISLD3 345 60106 PR ISLD5 161 1     947
              Open 60105 PR ISLD3 345 60106 PR ISLD5 161 1                         -0.05730 -0.00258   145.8   161.5
548  -6076.5 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -63.8   -48.0 -0.00260         -0.00216   -58.1   -45.0
            C:60796 KENYON 869.0 60797 KENYNTP869.0 1    1468
              Open 60796 KENYON 869.0 60797 KENYNTP869.0 1                          0.27260 -0.00161   -20.7   -10.9
549  -6032.4 L:60756 ALBANY 869.0 62838 FARMING869.0 1         -31.9   -27.6 -0.00072         -0.00055   -24.8   -21.5
            C:60752 BLCKOAK869.0 60753 MEIRGRV869.0 1    1432
              Open 60752 BLCKOAK869.0 60753 MEIRGRV869.0 1                          0.38192 -0.00045   -18.7   -16.0
550  -6023.5 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -61.0   -48.0 -0.00216         -0.00216   -65.1   -52.1
            C:60789 CIRCLTP869.0 62872 FARIBLT869.0 1    3142
              Open 60789 CIRCLTP869.0 62872 FARIBLT869.0 1                          0.61357  0.00000     6.7     6.7
551  -6014.2 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -23.2   -17.3 -0.00098         -0.00090   -25.8   -20.4
            C:009   7                                    3704
              Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                          0.00273  0.00781   476.3   429.3
              Open 60202 COON CK3 345 60272 MPLEGV23 345 1                          0.00345  0.00000     4.2     4.2
              Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                          0.00670 -0.01571   221.8   316.3
              Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                         -0.00056 -0.00157   390.0   399.4
              Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                          0.00401  0.00000     0.2     0.2
              Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1     NA
552  -5976.8 L:34384 MCARMOR869.0 34396 EMERY N869.0 1         -72.6   -51.0 -0.00361         -0.00199   -43.9   -32.0
            C:34393 MCHW106869.0 34395 EMERY S869.0 1     550
              Open 34393 MCHW106869.0 34395 EMERY S869.0 1                          0.55937 -0.00289   -51.3   -34.0
553  -5968.6 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -162.3  -127.9 -0.00576         -0.00474  -150.7  -122.4
            C:66236 WATERT1T 345 66529 WATERTN3 345 1    2238
              Open 66236 WATERT1T 345 66529 WATERTN3 345 1                          0.03555 -0.02864  -326.1  -155.2
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554  -5967.8 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -162.3  -127.9 -0.00576         -0.00474  -150.7  -122.4
             C:WATERT1T                                   3786
               Open 66236 WATERT1T 345 66237 WATERT1913.8 1     NA
               Open 66236 WATERT1T 345 66529 WATERTN3 345 1                          0.03555 -0.02864  -326.1  -155.2
               Open 66236 WATERT1T 345 66530 WATERTN4 230 1                          0.02099  0.00000     0.2     0.2
555  -5967.2 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -162.3  -127.9 -0.00576         -0.00474  -150.7  -122.4
             C:66236 WATERT1T 345 66530 WATERTN4 230 1    2239
               Open 66236 WATERT1T 345 66530 WATERTN4 230 1                         -0.03555  0.02864   325.9   155.0
556  -5966.5 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -156.2  -127.9 -0.00474         -0.00474  -150.7  -122.4
             C:60001 SHERC32G24.0 60160 SHERCO 3 345 1    2894
               Open 60001 SHERC32G24.0 60160 SHERCO 3 345 1                          0.00774  0.00000  -711.4  -711.4
557  -5965.1 L:62935 MAPLELK869.0 63024 MAPLE 1G69.0 1          28.0    24.3  0.00062          0.00099    14.0     8.2
             C:62150 E BL TP869.0 62965 ELKRWS1869.0 1    1797
               Open 62150 E BL TP869.0 62965 ELKRWS1869.0 1                         -0.49770  0.00074   -28.0   -32.4
558  -5963.9 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -156.2  -127.9 -0.00474         -0.00474  -150.7  -122.4
             C:60000 SHERC31G24.0 60160 SHERCO 3 345 1    2893
               Open 60000 SHERC31G24.0 60160 SHERCO 3 345 1                          0.00774  0.00000  -709.8  -709.8
559  -5963.8 L:62944 GOOSETP869.0 63024 MAPLE 1G69.0 1         -28.0   -24.3 -0.00062         -0.00099   -14.0    -8.2
             C:62150 E BL TP869.0 62965 ELKRWS1869.0 1    1797
               Open 62150 E BL TP869.0 62965 ELKRWS1869.0 1                          0.49770  0.00074   -28.0   -32.4
560  -5921.9 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          21.5    13.7  0.00132          0.00090    14.0     8.7
             C:60705 LUXBGTP869.0 62620 WATKINS869.0 1    3076
               Open 60705 LUXBGTP869.0 62620 WATKINS869.0 1                          0.32182  0.00132    23.2    15.4
561  -5893.4 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -59.6   -48.0 -0.00197         -0.00216   -51.9   -39.2
             C:SPC-PRI/CTF5                               3685
               Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                         -0.04135 -0.00258   145.8   161.0
               Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                          0.02632  0.00307   -62.4   -80.4
562  -5888.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -60.7   -48.0 -0.00216         -0.00216   -58.1   -45.4
             C:60789 CIRCLTP869.0 62872 FARIBLT869.0 1    3142
               Open 60789 CIRCLTP869.0 62872 FARIBLT869.0 1                         -0.38643  0.00000     6.7     6.7
563  -5865.9 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -59.6   -48.0 -0.00197         -0.00216   -51.9   -39.3
             C:740    1                                   3757
               Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                          0.02632  0.00307   -62.4   -80.3
               Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                         -0.04135 -0.00258   145.8   160.9
               Open 60103 CANNFLS5 161 60104 CANNFLS7 115 1                          0.07231  0.00000     0.7     0.7
564  -5862.0 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -156.5  -127.9 -0.00487         -0.00474  -150.7  -122.9
             C:60171 LYON CO7 115 60903 LYON CO869.0 1    1088
               Open 60171 LYON CO7 115 60903 LYON CO869.0 1                         -0.24783  0.00052    23.3    20.2
565  -5849.6 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -19.3   -13.7 -0.00095         -0.00090   -18.3   -13.0
             C:63051 HENNING4 230 63331 FERGSFL4 230 1    2055
               Open 63051 HENNING4 230 63331 FERGSFL4 230 1                          0.00506 -0.01090  -199.4  -135.7
566  -5846.1 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -22.1   -17.3 -0.00082         -0.00090   -25.8   -20.5
             C:CNC-SHC/BUL3                               3635
               Open 60160 SHERCO 3 345 60202 COON CK3 345 1                          0.00388  0.00770   469.4   424.4
               Open 60202 COON CK3 345 63031 BUNKER 3 345 1                         -0.00627 -0.00793  -300.1  -253.7
567  -5835.8 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -63.1   -48.0 -0.00260         -0.00216   -58.1   -45.5
             C:60796 KENYON 869.0 60819 CHERYTP869.0 1    1469
               Open 60796 KENYON 869.0 60819 CHERYTP869.0 1                         -0.27260  0.00161    18.4     9.0
568  -5832.5 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -59.7   -48.0 -0.00200         -0.00216   -65.1   -52.5
             C:60791 FARIBLT869.0 60792 WFARBLT869.0 1    1464
               Open 60791 FARIBLT869.0 60792 WFARBLT869.0 1                         -0.07455 -0.00211   -72.7   -60.4
569  -5810.9 L:62429 PNNCKTP869.0 66298 GRANITF869.0 1         -29.2   -24.3 -0.00085         -0.00071   -16.4   -12.3
             C:500                                        3721
               Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                          0.01399 -0.01028  -223.5  -163.7
               Open 62427 WILLMAR869.0 63050 WILLMAR4 230 1                          0.20642  0.00004   -47.0   -47.2
570  -5805.4 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -59.7   -48.0 -0.00201         -0.00216   -65.1   -52.6
             C:60787 NOFIELD869.0 62256 CSTL RK869.0 1    3140
               Open 60787 NOFIELD869.0 62256 CSTL RK869.0 1                          0.47993  0.00031    11.3     9.5
571  -5800.6 L:62935 MAPLELK869.0 63024 MAPLE 1G69.0 1          27.9    24.3  0.00062          0.00099    14.0     8.3
             C:62100 BIG LAK869.0 62150 E BL TP869.0 1    1734
               Open 62100 BIG LAK869.0 62150 E BL TP869.0 1                         -0.49770  0.00074   -27.8   -32.1
572  -5799.3 L:62944 GOOSETP869.0 63024 MAPLE 1G69.0 1         -27.9   -24.3 -0.00062         -0.00099   -14.0    -8.3
             C:62100 BIG LAK869.0 62150 E BL TP869.0 1    1734
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                Open 62100 BIG LAK869.0 62150 E BL TP869.0 1                          0.49770  0.00074   -27.8   -32.1
573  -5786.2 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -155.8  -127.9 -0.00482         -0.00474  -150.7  -123.2
             C:63195 BIGSTONY 230 63214 BIGSTON7 115 1    2078
                Open 63195 BIGSTONY 230 63214 BIGSTON7 115 1                         -0.02707  0.00278   187.9   171.8
574  -5786.0 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -155.8  -127.9 -0.00482         -0.00474  -150.7  -123.3
             C:63195 BIGSTONY 230 63314 BIGSTON4 230 1    2079
                Open 63195 BIGSTONY 230 63314 BIGSTON4 230 1                          0.02707 -0.00278  -187.8  -171.7
575  -5784.2 L:67105 LELANDO3 345 67201 LELND1TY 345 1         326.9   250.0  0.01329          0.00527   129.7    99.2
             C:67105 LELANDO3 345 67202 LELND2TY 345 1    2607
                Open 67105 LELANDO3 345 67202 LELND2TY 345 1                          0.80096  0.01001   246.1   188.2
576  -5780.5 L:67105 LELANDO3 345 67201 LELND1TY 345 1         326.8   250.0  0.01329          0.00527   129.7    99.3
             C:LELANDO T2                                 3792
                Open 67105 LELANDO3 345 67202 LELND2TY 345 1                          0.80096  0.01001   246.1   188.3
                Open 67106 LELANDO4 230 67202 LELND2TY 345 1                         -0.46170  0.00000     0.1     0.1
577  -5778.6 L:67106 LELANDO4 230 67201 LELND1TY 345 1        -326.8  -250.0 -0.01329         -0.00527  -129.6   -99.2
             C:67105 LELANDO3 345 67202 LELND2TY 345 1    2607
                Open 67105 LELANDO3 345 67202 LELND2TY 345 1                         -0.80096  0.01001   246.1   188.3
578  -5777.8 L:67105 LELANDO3 345 67201 LELND1TY 345 1         326.8   250.0  0.01329          0.00527   129.7    99.3
             C:67106 LELANDO4 230 67202 LELND2TY 345 1    2611
                Open 67106 LELANDO4 230 67202 LELND2TY 345 1                         -0.80096 -0.01001  -246.0  -188.2
579  -5776.6 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -91.5   -66.0 -0.00442         -0.00166   -66.5   -56.9
             C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                         -0.02438  0.11319  1025.6   371.8
580  -5774.9 L:67106 LELANDO4 230 67201 LELND1TY 345 1        -326.7  -250.0 -0.01329         -0.00527  -129.6   -99.2
             C:LELANDO T2                                 3792
                Open 67105 LELANDO3 345 67202 LELND2TY 345 1                         -0.80096  0.01001   246.1   188.3
                Open 67106 LELANDO4 230 67202 LELND2TY 345 1                          0.46170  0.00000     0.1     0.1
581  -5772.2 L:67106 LELANDO4 230 67201 LELND1TY 345 1        -326.7  -250.0 -0.01329         -0.00527  -129.6   -99.2
             C:67106 LELANDO4 230 67202 LELND2TY 345 1    2611
                Open 67106 LELANDO4 230 67202 LELND2TY 345 1                          0.80096 -0.01001  -246.0  -188.2
582  -5764.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -60.7   -48.0 -0.00220         -0.00216   -58.1   -45.7
             C:60342 WHAST  7 115 62258 WHASTNG869.0 1    3032
                Open 60342 WHAST  7 115 62258 WHASTNG869.0 1                         -0.05012  0.00078    50.6    46.1
583  -5764.5 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -155.2  -127.9 -0.00474         -0.00474  -150.7  -123.4
             C:60005 MNTCE31G22.0 60151 MNTCELO3 345 1    2898
                Open 60005 MNTCE31G22.0 60151 MNTCELO3 345 1                          0.00773  0.00000  -588.5  -588.5
584  -5756.7 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -60.4   -48.0 -0.00216         -0.00216   -58.1   -45.7
             C:60014 BLK D74G18.0 60200 BLK DG27 115 1    2907
                Open 60014 BLK D74G18.0 60200 BLK DG27 115 1                          0.01334  0.00000  -171.7  -171.7
585  -5741.6 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -60.9   -48.0 -0.00225         -0.00216   -58.1   -45.7
             C:705       1                                3742
                Open 60192 BLUE LK3 345 60233 PARKERS3 345 1                         -0.00354  0.01268   140.3    67.5
                Open 60192 BLUE LK3 345 60262 EDEN PR3 345 1                         -0.00367  0.01321   562.3   486.5
                Open 60262 EDEN PR3 345 60263 EDEN PR7 115 1                         -0.00069  0.00057   342.4   339.1
586  -5735.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -60.0   -48.0 -0.00209         -0.00216   -58.1   -45.8
             C:60817 BURNSID869.0 62387 SPRNGCK869.0 1    3168
                Open 60817 BURNSID869.0 62387 SPRNGCK869.0 1                          0.06216  0.00110   -29.8   -36.1
587  -5722.5 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -159.0  -127.9 -0.00544         -0.00474  -150.7  -123.6
             C:66503 BLAIR  4 230 66530 WATERTN4 230 1    2448
                Open 66503 BLAIR  4 230 66530 WATERTN4 230 1                          0.03748 -0.01853  -222.1  -116.0
588  -5709.5 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -237.2  -200.0 -0.00652         -0.03224  -253.3   -69.2
             C:34018 HAZLTON3 345 60102 ADAMS  3 345 1      56
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                         -0.18110 -0.14203   -88.8   722.1
589  -5709.0 L:62935 MAPLELK869.0 63024 MAPLE 1G69.0 1          29.3    24.3  0.00088          0.00099    14.0     8.4
             C:62138 BRGGLKS869.0 62139 CABLETP869.0 1    1785
                Open 62138 BRGGLKS869.0 62139 CABLETP869.0 1                         -0.43700  0.00024   -35.0   -36.4
590  -5708.1 L:62944 GOOSETP869.0 63024 MAPLE 1G69.0 1         -29.3   -24.3 -0.00088         -0.00099   -14.0    -8.4
             C:62138 BRGGLKS869.0 62139 CABLETP869.0 1    1785
                Open 62138 BRGGLKS869.0 62139 CABLETP869.0 1                          0.43700  0.00024   -35.0   -36.4
591  -5698.0 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -157.8  -127.9 -0.00524         -0.00474  -150.7  -123.7
             C:60683 MINNVAL869.0 60684 YELWMED869.0 1    1392
                Open 60683 MINNVAL869.0 60684 YELWMED869.0 1                          0.26654 -0.00188   -26.6   -15.9
592  -5687.2 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -161.9  -127.9 -0.00598         -0.00474  -150.7  -123.7
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            C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
              Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          -0.01095  0.11319  1025.6   381.9
593  -5673.2 L:60756 ALBANY 869.0 62838 FARMING869.0 1         -33.5   -27.6 -0.00104         -0.00055   -24.8   -21.7
            C:60752 BLCKOAK869.0 60754 MELRSMU869.0 1    1433
              Open 60752 BLCKOAK869.0 60754 MELRSMU869.0 1                          -0.62927  0.00078    13.8     9.4
594  -5663.8 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -60.8   -48.0 -0.00225         -0.00216   -58.1   -45.9
            C:BLL-EDP/PKL3                               3640
              Open 60192 BLUE LK3 345 60262 EDEN PR3 345 1                          -0.00378  0.01321   562.3   487.5
              Open 60192 BLUE LK3 345 60233 PARKERS3 345 1                          -0.00361  0.01268   140.3    68.5
595  -5655.7 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -60.1   -48.0 -0.00214         -0.00216   -58.1   -45.9
            C:60218 INVRHLS7 115 60223 KOCHREF7 115 1    1200
              Open 60218 INVRHLS7 115 60223 KOCHREF7 115 1                          -0.00947 -0.00190   208.2   219.0
596  -5647.7 L:60749 DGLAS C869.0 60750 OSAKIS 869.0 1          40.1    37.0  0.00055          0.00033    26.7    24.9
            C:60760 PAYNES 869.0 62824 ZION TP869.0 1    3126
              Open 60760 PAYNES 869.0 62824 ZION TP869.0 1                           0.47053  0.00045    28.3    25.8
597  -5644.4 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -154.7  -127.9 -0.00474         -0.00474  -150.7  -123.9
            C:60006 KING 31G20.0 60186 AS KING3 345 1    2899
              Open 60006 KING 31G20.0 60186 AS KING3 345 1                           0.00690  0.00000  -576.7  -576.7
598  -5639.5 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -151.7  -127.9 -0.00423         -0.00474  -150.7  -123.9
            C:61950 BYRON  3 345 63032 PL VLLY3 345 1    3377
              Open 61950 BYRON  3 345 63032 PL VLLY3 345 1                           0.00611  0.08460  -170.0  -647.1
599  -5633.0 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -154.6  -127.9 -0.00474         -0.00474  -150.7  -124.0
            C:63001 COAL 42G22.0 63041 COAL CR4 230 1    3399
              Open 63001 COAL 42G22.0 63041 COAL CR4 230 1                           0.00734  0.00000  -534.3  -534.3
600  -5626.3 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -154.6  -127.9 -0.00474         -0.00474  -150.7  -124.0
            C:63000 COAL 41G22.0 63041 COAL CR4 230 1    3398
              Open 63000 COAL 41G22.0 63041 COAL CR4 230 1                           0.00734  0.00000  -530.0  -530.0
601  -5619.5 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -165.5  -127.9 -0.00669         -0.00474  -150.7  -124.0
            C:66529 WATERTN3 345 66537 WHITE  3 345 1    2501
              Open 66529 WATERTN3 345 66537 WHITE  3 345 1                           0.04797 -0.04065  -308.9   -80.5
602  -5582.0 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -74.5   -66.0 -0.00153         -0.00166   -66.5   -57.3
            C:SPC-PRI/CTF5                               3685
              Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                          -0.05716 -0.00258   145.8   160.2
              Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                          -0.00519  0.00307   -62.4   -79.5
603  -5571.3 L:60934 WATOWAN869.0 60284 WATOWAN7 115 P1       -103.8   -70.0 -0.00607          0.00253   -46.8   -60.9
            C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
              Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                           0.06153 -0.13974  -926.4  -147.9
604  -5570.9 L:60684 YELWMED869.0 60903 LYON CO869.0 1         -55.5   -47.0 -0.00153         -0.00188   -35.5   -25.0
            C:60286 NOBLES 3 345 60287 NOBLES 7 115 C1   1292
              Open 60286 NOBLES 3 345 60287 NOBLES 7 115 C1                          0.04697  0.00735  -426.7  -467.7
605  -5555.0 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -74.5   -66.0 -0.00153         -0.00166   -66.5   -57.3
            C:740    1                                   3757
              Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                          -0.00519  0.00307   -62.4   -79.4
              Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                          -0.05716 -0.00258   145.8   160.1
              Open 60103 CANNFLS5 161 60104 CANNFLS7 115 1                           0.05507  0.00000     0.7     0.7
606  -5548.6 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -62.4   -48.0 -0.00260         -0.00216   -58.1   -46.2
            C:60818 ZUMBRTA869.0 60819 CHERYTP869.0 1    1480
              Open 60818 ZUMBRTA869.0 60819 CHERYTP869.0 1                           0.27260 -0.00161   -15.7    -6.8
607  -5547.1 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -59.6   -48.0 -0.00209         -0.00216   -58.1   -46.2
            C:PRI-RRK/RRK3                               3647
              Open 60105 PR ISLD3 345 60236 REDROCK3 345 1                          -0.00188 -0.01690   390.7   484.4
              Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                          -0.00188 -0.01722   398.2   493.7
608  -5547.1 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -59.6   -48.0 -0.00209         -0.00216   -58.1   -46.2
            C:760                                        3762
              Open 60105 PR ISLD3 345 60236 REDROCK3 345 1                          -0.00188 -0.01690   390.7   484.4
              Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                          -0.00188 -0.01722   398.2   493.7
609  -5532.1 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          18.5    13.7  0.00086          0.00090    14.0     9.1
            C:62122 WESTEND869.0 62138 BRGGLKS869.0 1    1765
              Open 62122 WESTEND869.0 62138 BRGGLKS869.0 1                          -0.15187  0.00024   -29.0   -30.4
610  -5531.4 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -60.9   -48.0 -0.00234         -0.00216   -58.1   -46.2
            C:60110 WILMART7 115 60194 CARVRCO7 115 1     964
              Open 60110 WILMART7 115 60194 CARVRCO7 115 1                          -0.02066  0.00886   136.3    87.3
611  -5522.0 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -74.4   -66.0 -0.00152         -0.00166   -66.5   -57.4
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              C:60106 PR ISLD5 161 63071 SPRNGCK5 161 1    2939
                Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                          -0.05402 -0.00258   145.8   160.0
612  -5522.0 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -74.4   -66.0 -0.00152         -0.00166   -66.5   -57.4
              C:60105 PR ISLD3 345 60106 PR ISLD5 161 1     947
                Open 60105 PR ISLD3 345 60106 PR ISLD5 161 1                          -0.05402 -0.00258   145.8   160.0
613  -5515.8 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -22.3   -17.3 -0.00091         -0.00090   -25.8   -20.8
              C:62982 HUTCHMN7 115 62986 HUTCHMN869.0 1    2027
                Open 62982 HUTCHMN7 115 62986 HUTCHMN869.0 1                           0.15145 -0.00010    22.8    23.3
614  -5507.3 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -170.4  -127.9 -0.00771         -0.00474  -150.7  -124.6
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                           0.02122 -0.13974  -926.4  -156.8
615  -5504.0 L:60742 PANTHER869.0 63054 PANTHER4 230 1         -86.3   -70.0 -0.00296          0.00014   -45.6   -46.3
              C:62980 MCLEOD 4 230 63054 PANTHER4 230 1    3396
                Open 62980 MCLEOD 4 230 63054 PANTHER4 230 1                           0.18206 -0.01700  -223.7  -130.1
616  -5490.7 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -153.9  -127.9 -0.00474         -0.00474  -150.7  -124.7
              C:60003 PR IS31G20.0 60105 PR ISLD3 345 1    2896
                Open 60003 PR IS31G20.0 60105 PR ISLD3 345 1                           0.00611  0.00000  -531.4  -531.4
617  -5486.1 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -154.0  -127.9 -0.00475         -0.00474  -150.7  -124.7
              C:63213 MARIETT7 115 63214 BIGSTON7 115 1    2097
                Open 63213 MARIETT7 115 63214 BIGSTON7 115 1                           0.06783 -0.00008   -48.0   -47.6
618  -5472.7 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -153.9  -127.9 -0.00474         -0.00474  -150.7  -124.7
              C:60004 PR IS32G20.0 60105 PR ISLD3 345 1    2897
                Open 60004 PR IS32G20.0 60105 PR ISLD3 345 1                           0.00611  0.00000  -517.4  -517.4
619  -5471.8 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -68.9   -48.0 -0.00382         -0.00216   -65.1   -53.3
              C:61948 BYRON  5 161 61964 OWATNNA5 161 1    1698
                Open 61948 BYRON  5 161 61964 OWATNNA5 161 1                           0.08197 -0.02026   -46.5    64.4
620  -5465.3 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -153.8  -127.9 -0.00474         -0.00474  -150.7  -124.8
              C:67315 COYOTE1G24.0 67316 COYOTE 3 345 1    3616
                Open 67315 COYOTE1G24.0 67316 COYOTE 3 345 1                           0.00822  0.00000  -380.7  -380.7
621  -5463.9 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -152.9  -127.9 -0.00458         -0.00474  -150.7  -124.8
              C:60126 SPLT RK3 345 60131 SPLTRTB3 345 1    1002
                Open 60126 SPLT RK3 345 60131 SPLTRTB3 345 1                          -0.01122 -0.01464   198.4   278.4
622  -5463.9 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -152.9  -127.9 -0.00458         -0.00474  -150.7  -124.8
              C:60131 SPLTRTB3 345 66564 SIOUXCY3 345 1    1009
                Open 60131 SPLTRTB3 345 66564 SIOUXCY3 345 1                          -0.01122 -0.01464   198.4   278.4
623  -5462.1 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -54.9   -47.0 -0.00145         -0.00211   -72.7   -61.2
              C:60788 VALLYTP869.0 60789 CIRCLTP869.0 1    1460
                Open 60788 VALLYTP869.0 60789 CIRCLTP869.0 1                          -0.30553 -0.00216   -58.1   -46.3
624  -5458.4 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -59.2   -48.0 -0.00205         -0.00216   -58.1   -46.4
              C:60982 ALMA   869.0 68874 ALMA 8  69.0 1    3254
                Open 60982 ALMA   869.0 68874 ALMA 8  69.0 1                           0.02975  0.00359   -35.8   -55.4
625  -5453.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -59.6   -48.0 -0.00212         -0.00216   -58.1   -46.4
              C:60218 INVRHLS7 115 60220 INVRGRV7 115 1    1199
                Open 60218 INVRHLS7 115 60220 INVRGRV7 115 1                          -0.01098 -0.00349   130.1   149.1
626  -5452.4 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -154.0  -127.9 -0.00478         -0.00474  -150.7  -124.8
              C:63369 JAMESTN3 345 66791 CENTER 3 345 1    2201
                Open 63369 JAMESTN3 345 66791 CENTER 3 345 1                           0.00737 -0.00471  -441.7  -416.0
627  -5448.7 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          24.6    19.3  0.00097          0.00055    31.8    28.8
              C:60707 BLUEHRN869.0 60717 WAKEFLD869.0 1    1410
                Open 60707 BLUEHRN869.0 60717 WAKEFLD869.0 1                           0.34070  0.00123   -21.3   -28.0
628  -5447.0 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -152.8  -127.9 -0.00457         -0.00474  -150.7  -124.9
              C:60279 BUFFRID7 115  6001 YANKEE 7 115 1       1
                Open 60279 BUFFRID7 115  6001 YANKEE 7 115 1                          -0.14603 -0.00116    14.5    20.8
629  -5445.3 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -153.8  -127.9 -0.00475         -0.00474  -150.7  -124.9
              C:63212 BURR   7 115 63213 MARIETT7 115 1    2096
                Open 63212 BURR   7 115 63213 MARIETT7 115 1                           0.06783 -0.00008   -45.2   -44.7
630  -5436.9 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -68.8   -48.0 -0.00382         -0.00216   -65.1   -53.4
              C:BYN-WOW/KAN5                               3656
                Open 61948 BYRON  5 161 61964 OWATNNA5 161 1                           0.08197 -0.02026   -46.5    63.7
                Open 60799 KASSON 869.0 61161 BYRON  869.0 1                           0.00368  0.00000    36.1    36.1
631  -5401.7 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -59.6   -48.0 -0.00216         -0.00216   -58.1   -46.5
              C:60218 INVRHLS7 115 61478 INV TR1Y 115 1    1202
                Open 60218 INVRHLS7 115 61478 INV TR1Y 115 1                           0.01326  0.00000  -115.0  -115.0
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632  -5392.2 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -60.4   -48.0 -0.00229         -0.00216   -58.1   -46.5
             C:61906 MAPLE LF 161 61948 BYRON  5 161 1    3374
               Open 61906 MAPLE LF 161 61948 BYRON  5 161 1                          0.01144 -0.01198  -196.1  -131.5
633  -5391.8 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -59.6   -48.0 -0.00216         -0.00216   -58.1   -46.5
             C:60008 RIVRS78G22.0 60240 RIVRSID7 115 1    2901
               Open 60008 RIVRS78G22.0 60240 RIVRSID7 115 1                          0.00660  0.00000  -228.0  -228.0
634  -5391.5 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -59.6   -48.0 -0.00216         -0.00216   -58.1   -46.5
             C:60013 BLK D73G13.8 60200 BLK DG27 115 1    2906
               Open 60013 BLK D73G13.8 60200 BLK DG27 115 1                          0.01334  0.00000  -112.6  -112.6
635  -5350.6 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -153.5  -127.9 -0.00478         -0.00474  -150.7  -125.3
             C:63358 BUFFALO3 345 63369 JAMESTN3 345 1    2197
               Open 63358 BUFFALO3 345 63369 JAMESTN3 345 1                          0.00737 -0.00471  -375.7  -350.5
636  -5329.6 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -153.4  -127.9 -0.00478         -0.00474  -150.7  -125.4
             C:63358 BUFFALO3 345 66792 MAPLE R3 345 1    2198
               Open 63358 BUFFALO3 345 66792 MAPLE R3 345 1                         -0.00737  0.00471   362.1   337.0
637  -5321.4 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -58.6   -48.0 -0.00199         -0.00216   -51.9   -40.5
             C:60104 CANNFLS7 115 60801 CNFLSTR869.0 1     946
               Open 60104 CANNFLS7 115 60801 CNFLSTR869.0 1                         -0.14830 -0.00113    44.8    50.8
638  -5289.7 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -59.9   -48.0 -0.00226         -0.00216   -58.1   -46.7
             C:715       4                                3751
               Open 60243 SCOTTAP7 115 62666 GLNDALE7 115 1                         -0.02416  0.00356    31.4    12.6
               Open 62666 GLNDALE7 115 62672 GLNDALE869.0 1                         -0.02559  0.00008    32.9    32.5
               Open 60243 SCOTTAP7 115 60244 SCOTTCO7 115 1                         -0.00714  0.00158    27.4    19.0
               Open 60194 CARVRCO7 115 60243 SCOTTAP7 115 1                         -0.00232  0.00000     1.2     1.2
               Open 60194 CARVRCO7 115 60931 CARVRCO869.0 1                         -0.00028 -0.00021    30.7    31.8
639  -5280.5 L:60742 PANTHER869.0 63054 PANTHER4 230 1         -74.5   -70.0 -0.00085          0.00014   -45.6   -46.3
             C:60728 FRANKLN869.0 60770 BIRCH R869.0 C1   3096
               Open 60728 FRANKLN869.0 60770 BIRCH R869.0 C1                        -0.83649  0.00118    34.6    28.4
640  -5279.6 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -59.5   -48.0 -0.00219         -0.00216   -58.1   -46.7
             C:022       1                                3706
               Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                         -0.00073  0.02473   273.5   142.9
               Open 60221 KOLMNLK3 345 60251 TERMINL3 345 1                         -0.00096 -0.02272   209.4   329.3
               Open 60202 COON CK3 345 60251 TERMINL3 345 1                         -0.00169  0.01927   549.2   447.5
               Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                         -0.00041  0.00023   225.9   224.7
               Open 60251 TERMINL3 345 61492 TERMID1Y 345 1     NA
               Open 60252 TERMINL7 115 61492 TERMID1Y 345 1                          0.00000  0.00172  -377.2  -386.2
               Open 61187 TERTER1934.5 61492 TERMID1Y 345 1     NA
               Open 60251 TERMINL3 345 61491 TERMID2Y 345 1     NA
               Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                          0.00712  0.00000     0.7     0.7
               Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
641  -5273.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -59.4   -48.0 -0.00216         -0.00216   -58.1   -46.8
             C:60010 HIBRD76G18.0 60214 HIBRDGE7 115 1    2903
               Open 60010 HIBRD76G18.0 60214 HIBRDGE7 115 1                          0.00742  0.00000  -168.4  -168.4
642  -5273.0 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -59.2   -48.0 -0.00212         -0.00216   -58.1   -46.8
             C:60220 INVRGRV7 115 62230 PILOTKB7 115 1    2976
               Open 60220 INVRGRV7 115 62230 PILOTKB7 115 1                         -0.01098 -0.00349    95.2   113.6
643  -5265.7 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -16.8   -13.7 -0.00060         -0.00090   -18.3   -13.5
             C:62939 SILVERC869.0 62944 GOOSETP869.0 1    2014
               Open 62939 SILVERC869.0 62944 GOOSETP869.0 1                         -0.30521 -0.00099    -4.7     0.5
644  -5261.1 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -152.9  -127.9 -0.00474         -0.00474  -150.7  -125.7
             C:67101 ANTELOP3 345 67103 ANTEL31G24.0 1    3588
               Open 67101 ANTELOP3 345 67103 ANTEL31G24.0 1                          0.00517  0.00000  -417.8  -417.8
645  -5261.1 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -152.9  -127.9 -0.00474         -0.00474  -150.7  -125.7
             C:67101 ANTELOP3 345 67107 ANTEL32G24.0 1    3589
               Open 67101 ANTELOP3 345 67107 ANTEL32G24.0 1                          0.00517  0.00000  -417.8  -417.8
646  -5251.1 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -22.0   -17.3 -0.00090         -0.00090   -25.8   -21.1
             C:62985 HUTCHPK869.0 62986 HUTCHMN869.0 1    2029
               Open 62985 HUTCHPK869.0 62986 HUTCHMN869.0 1                         -0.08394  0.00000   -44.9   -44.9
647  -5241.0 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -153.3  -127.9 -0.00484         -0.00474  -150.7  -125.8
             C:BLL-EDP/PKL3                                   3640
               Open 60192 BLUE LK3 345 60262 EDEN PR3 345 1                         -0.00364  0.01321   562.3   493.1
               Open 60192 BLUE LK3 345 60233 PARKERS3 345 1                         -0.00365  0.01268   140.3    73.8
648  -5239.9 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -153.2  -127.9 -0.00484         -0.00474  -150.7  -125.8
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            C:705       1                                3742
              Open 60192 BLUE LK3 345 60233 PARKERS3 345 1                          -0.00365  0.01268   140.3    73.8
              Open 60192 BLUE LK3 345 60262 EDEN PR3 345 1                          -0.00365  0.01321   562.3   493.1
              Open 60262 EDEN PR3 345 60263 EDEN PR7 115 1                           0.00002  0.00057   342.4   339.4
649  -5233.8 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -152.5  -127.9 -0.00470         -0.00474  -150.7  -125.9
            C:BEN-GRC/SCL7                                 3655
              Open 60143 BENTON 7 115 60146 GRANCTY7 115 1                          -0.00648 -0.00357   147.7   166.4
              Open 60143 BENTON 7 115 60348 BENCTP7  115 1                          -0.00648 -0.00368   127.1   146.3
              Open 60157 STCLOUD7 115 60348 BENCTP7  115 1                           0.00010  0.00427   -26.2   -48.6
650  -5231.5 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -59.2   -48.0 -0.00214         -0.00216   -58.1   -46.8
            C:715       3                                  3750
              Open 60200 BLK DG27 115 62666 GLNDALE7 115 1                          -0.00581 -0.00339    34.9    52.6
              Open 62666 GLNDALE7 115 62672 GLNDALE869.0 2                          -0.02623  0.00008    32.9    32.5
651  -5230.4 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -242.5  -200.0 -0.00813         -0.03224  -253.3   -84.7
            C:34016 EMERY  5 161 34017 CGORDO_5 161 1      49
              Open 34016 EMERY  5 161 34017 CGORDO_5 161 1                          -0.31619 -0.07624   -34.1   364.7
652  -5229.7 L:60756 ALBANY 869.0 62838 FARMING869.0 1         -30.9   -27.6 -0.00064         -0.00055   -24.8   -21.9
            C:60750 OSAKIS 869.0 62820 W UNION869.0 1    3118
              Open 60750 OSAKIS 869.0 62820 W UNION869.0 1                          -0.25797  0.00033    23.7    22.0
653  -5228.0 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -59.6   -48.0 -0.00222         -0.00216   -58.1   -46.8
            C:60826 TRAVRSE869.0 62350 TRAVERS869.0 1    3177
              Open 60826 TRAVRSE869.0 62350 TRAVERS869.0 1                          -0.02661  0.00249    56.2    43.2
654  -5216.9 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -152.7  -127.9 -0.00475         -0.00474  -150.7  -125.9
            C:63211 CANBY  7 115 63212 BURR   7 115 1    2094
              Open 63211 CANBY  7 115 63212 BURR   7 115 1                           0.06783 -0.00008   -29.2   -28.8
655  -5207.4 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -152.2  -127.9 -0.00468         -0.00474  -150.7  -126.0
            C:PRI-RRK/RRK3                                 3647
              Open 60105 PR ISLD3 345 60236 REDROCK3 345 1                          -0.00197 -0.01690   390.7   478.7
              Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                          -0.00197 -0.01722   398.2   487.8
656  -5207.4 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -152.2  -127.9 -0.00468         -0.00474  -150.7  -126.0
            C:760                                          3762
              Open 60105 PR ISLD3 345 60236 REDROCK3 345 1                          -0.00197 -0.01690   390.7   478.7
              Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                          -0.00197 -0.01722   398.2   487.8
657  -5204.1 L:66504 BROOKNG7 115 66538 WHITE  7 115 1        -215.4  -160.0 -0.01065         -0.00214  -150.7  -139.6
            C:66529 WATERTN3 345 66537 WHITE  3 345 1    2501
              Open 66529 WATERTN3 345 66537 WHITE  3 345 1                           0.20955 -0.04065  -308.9   -97.4
658  -5203.8 L:60831 EASTWD2869.0 62347 EAGLELK869.0 1          94.8    72.0  0.00437          0.00322    61.5    44.8
            C:60826 TRAVRSE869.0 62323 PNLPNTP869.0 1    3176
              Open 60826 TRAVRSE869.0 62323 PNLPNTP869.0 1                          -0.47783 -0.00242   -69.6   -57.0
659  -5198.9 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          17.8    13.7  0.00080          0.00090    14.0     9.4
            C:62150 E BL TP869.0 62965 ELKRWS1869.0 1    1797
              Open 62150 E BL TP869.0 62965 ELKRWS1869.0 1                          -0.13540  0.00074   -28.0   -31.9
660  -5195.2 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          18.2    13.7  0.00087          0.00090    14.0     9.4
            C:62134 ELKR14S869.0 63043 ELK RIV4 230 1    1781
              Open 62134 ELKR14S869.0 63043 ELK RIV4 230 1                          -0.03174  0.00086  -131.4  -135.9
661  -5191.3 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -152.6  -127.9 -0.00475         -0.00474  -150.7  -126.1
            C:60123 PIPESTN7 115 60362 CHANRMB7 115 1     996
              Open 60123 PIPESTN7 115 60362 CHANRMB7 115 1                           0.02153 -0.00026   -86.3   -85.0
662  -5182.3 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          20.6    13.7  0.00132          0.00090    14.0     9.4
            C:60703 WATKINS869.0 62620 WATKINS869.0 1    3074
              Open 60703 WATKINS869.0 62620 WATKINS869.0 1                          -0.32182 -0.00132   -20.2   -13.4
663  -5173.2 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -152.6  -127.9 -0.00477         -0.00474  -150.7  -126.2
            C:66504 BROOKNG7 115 66538 WHITE  7 115 1    2451
              Open 66504 BROOKNG7 115 66538 WHITE  7 115 1                           0.01248 -0.00214  -150.7  -139.7
664  -5170.2 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -59.1   -48.0 -0.00216         -0.00216   -58.1   -47.0
            C:60007 RIVRS76G14.0 60240 RIVRSID7 115 1    2900
              Open 60007 RIVRS76G14.0 60240 RIVRSID7 115 1                           0.00660  0.00000  -155.5  -155.5
665  -5164.2 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          17.8    13.7  0.00080          0.00090    14.0     9.4
            C:62100 BIG LAK869.0 62150 E BL TP869.0 1    1734
              Open 62100 BIG LAK869.0 62150 E BL TP869.0 1                          -0.13540  0.00074   -27.8   -31.6
666  -5161.1 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -152.4  -127.9 -0.00474         -0.00474  -150.7  -126.2
            C:66749 CENTER1G22.0 66751 CENTER 4 230 1    3577
              Open 66749 CENTER1G22.0 66751 CENTER 4 230 1                           0.00762  0.00000  -221.3  -221.3
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667  -5158.2 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -59.1   -48.0 -0.00216         -0.00216   -58.1   -47.0
             C:022       5                                 3709
               Open 60221 KOLMNLK3 345 60251 TERMINL3 345 1                          -0.00115 -0.02272   209.4   326.6
               Open 60202 COON CK3 345 60251 TERMINL3 345 1                          -0.00140  0.01927   549.2   449.9
               Open 60251 TERMINL3 345 61492 TERMID1Y 345 1     NA
               Open 60252 TERMINL7 115 61492 TERMID1Y 345 1                           0.00000  0.00172  -377.2  -386.0
               Open 61187 TERTER1934.5 61492 TERMID1Y 345 1     NA
               Open 60251 TERMINL3 345 61491 TERMID2Y 345 1     NA
               Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                           0.00713  0.00000     0.7     0.7
               Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
668  -5158.1 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -152.4  -127.9 -0.00474         -0.00474  -150.7  -126.2
             C:60008 RIVRS78G22.0 60240 RIVRSID7 115 1    2901
               Open 60008 RIVRS78G22.0 60240 RIVRSID7 115 1                           0.00733  0.00000  -228.0  -228.0
669  -5156.3 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -59.8   -48.0 -0.00228         -0.00216   -58.1   -47.0
             C:62980 MCLEOD 4 230 63054 PANTHER4 230 1    3396
               Open 62980 MCLEOD 4 230 63054 PANTHER4 230 1                           0.00732 -0.01700  -223.7  -136.0
670  -5137.1 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -59.3   -48.0 -0.00221         -0.00216   -51.9   -40.9
             C:60905 FRMNGTN869.0 62259 LKMARN 869.0 1    3209
               Open 60905 FRMNGTN869.0 62259 LKMARN 869.0 1                           0.20992 -0.00024   -35.3   -34.0
671  -5129.6 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -151.9  -127.9 -0.00468         -0.00474  -150.7  -126.4
             C:66435 FARGO  4 230 66553 MOORHED4 230 1    2373
               Open 66435 FARGO  4 230 66553 MOORHED4 230 1                          -0.02351 -0.00250    52.5    65.4
672  -5115.0 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -153.3  -127.9 -0.00497         -0.00474  -150.7  -126.4
             C:60126 SPLT RK3 345 60286 NOBLES 3 345 C1   1003
               Open 60126 SPLT RK3 345 60286 NOBLES 3 345 C1                          0.01278 -0.01796  -206.7  -114.8
673  -5088.8 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -59.2   -48.0 -0.00220         -0.00216   -58.1   -47.1
             C:022       3                                 3707
               Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          -0.00100  0.02473   273.5   147.6
               Open 60202 COON CK3 345 60251 TERMINL3 345 1                          -0.00111  0.01927   549.2   451.2
               Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                          -0.00023  0.00023   225.9   224.7
               Open 60251 TERMINL3 345 61491 TERMID2Y 345 1                          -0.00039 -0.00173   381.0   389.8
               Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                           0.00684  0.00000     0.2     0.2
               Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
674  -5083.6 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -18.3   -13.7 -0.00090
               Base Case
675  -5081.3 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -152.0  -127.9 -0.00474         -0.00474  -150.7  -126.6
             C:60374 FIBROMN7 115 62001 BENSON 7 115 1    1375
               Open 60374 FIBROMN7 115 62001 BENSON 7 115 1                           0.02615  0.00000   -50.0   -50.0
676  -5078.5 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -59.5   -48.0 -0.00227         -0.00216   -58.1   -47.2
             C:795                                             3768
               Open 60150 MNVLTAP4 230 66550 GRANITF4 230 1                           0.00667 -0.01397  -262.1  -191.2
               Open 60148 MINVALY7 115 60149 MINVALT4 230 C1                         -0.00723  0.00290    16.5     1.7
               Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                           0.00674  0.00000     0.0     0.0
               Open 60149 MINVALT4 230 60150 MNVLTAP4 230 1     NA
               Open 60742 PANTHER869.0 63054 PANTHER4 230 1                          -0.00995  0.00014   -45.6   -46.3
677  -5076.0 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -152.0  -127.9 -0.00474         -0.00474  -150.7  -126.6
             C:60014 BLK D74G18.0 60200 BLK DG27 115 1    2907
               Open 60014 BLK D74G18.0 60200 BLK DG27 115 1                           0.00747  0.00000  -171.7  -171.7
678  -5073.3 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -152.0  -127.9 -0.00474         -0.00474  -150.7  -126.6
             C:63223 HOOT LK7 115 63324 HOOTLK3G13.8 1    3444
               Open 63223 HOOT LK7 115 63324 HOOTLK3G13.8 1                           0.01511  0.00000   -84.0   -84.0
679  -5073.1 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -59.3   -48.0 -0.00223         -0.00216   -58.1   -47.2
             C:60150 MNVLTAP4 230 63054 PANTHER4 230 1    2955
               Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                          -0.00423  0.01686   278.5   193.0
680  -5063.6 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -151.9  -127.9 -0.00474         -0.00474  -150.7  -126.7
             C:60010 HIBRD76G18.0 60214 HIBRDGE7 115 1    2903
               Open 60010 HIBRD76G18.0 60214 HIBRDGE7 115 1                           0.00726  0.00000  -168.4  -168.4
681  -5049.9 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -152.0  -127.9 -0.00477         -0.00474  -150.7  -126.7
             C:60110 WILMART7 115 60111 BODE   7 115 1     962
               Open 60110 WILMART7 115 60111 BODE   7 115 1                          -0.02343  0.00121    55.6    49.4
682  -5046.0 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -151.8  -127.9 -0.00474         -0.00474  -150.7  -126.8
             C:60007 RIVRS76G14.0 60240 RIVRSID7 115 1    2900
               Open 60007 RIVRS76G14.0 60240 RIVRSID7 115 1                           0.00733  0.00000  -155.5  -155.5
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683  -5044.8 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -151.7  -127.9 -0.00472         -0.00474  -150.7  -126.8
             C:60142 BENTON 3 345 60160 SHERCO 3 345 1    1034
               Open 60142 BENTON 3 345 60160 SHERCO 3 345 1                          0.00261  0.00789  -394.5  -434.3
684  -5044.0 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -151.8  -127.9 -0.00474         -0.00474  -150.7  -126.8
             C:63002 STANT41G18.0 63049 STANTON4 230 1    3400
               Open 63002 STANT41G18.0 63049 STANTON4 230 1                          0.00730  0.00000  -154.9  -154.9
685  -5042.0 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -151.7  -127.9 -0.00472         -0.00474  -150.7  -126.8
             C:675                                        3734
               Open 60142 BENTON 3 345 63045 BENTON 4 230 1                          0.00000 -0.00401   200.1   220.3
               Open 60142 BENTON 3 345 60160 SHERCO 3 345 1                          0.00261  0.00789  -394.5  -434.3
               Open 60142 BENTON 3 345 63045 BENTON 4 230 2                          0.01009  0.00000     1.3     1.3
686  -5039.0 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -240.1  -200.0 -0.00795         -0.03224  -253.3   -90.8
             C:825                                        3774
               Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                          0.09594 -0.09711   -81.1   408.2
               Open 34014 ADAMS  5 161 60102 ADAMS  3 345 1                          0.00000  0.02246     4.5  -108.6
               Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                         -0.23661 -0.14203   -88.8   626.9
687  -5036.4 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -151.8  -127.9 -0.00474         -0.00474  -150.7  -126.8
             C:60122 LAWRENC7 115 60834 LAWRENC869.0 1     992
               Open 60122 LAWRENC7 115 60834 LAWRENC869.0 1                         -0.01186  0.00000    92.3    92.3
688  -5036.2 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -65.0   -48.0 -0.00337         -0.00216   -58.1   -47.3
             C:60107 W FARIB7 115 61952 S FARIB5 161 1     955
               Open 60107 W FARIB7 115 61952 S FARIB5 161 1                         -0.08328  0.01456    82.2     8.8
689  -5029.0 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -151.9  -127.9 -0.00477         -0.00474  -150.7  -126.8
             C:60111 BODE   7 115 60112 FTRIDLY7 115 1     969
               Open 60111 BODE   7 115 60112 FTRIDLY7 115 1                         -0.02343  0.00121    51.3    45.2
690  -5027.0 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -151.7  -127.9 -0.00474         -0.00474  -150.7  -126.9
             C:67105 LELANDO3 345 67111 LELAN32G20.0 1    3591
               Open 67105 LELANDO3 345 67111 LELAN32G20.0 1                          0.00523  0.00000  -200.7  -200.7
691  -5016.0 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -64.9   -48.0 -0.00337         -0.00216   -58.1   -47.3
             C:61952 S FARIB5 161 61964 OWATNNA5 161 1    1699
               Open 61952 S FARIB5 161 61964 OWATNNA5 161 1                         -0.08328  0.01456    81.4     8.3
692  -4996.3 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -151.9  -127.9 -0.00480         -0.00474  -150.7  -127.0
             C:63327 HANKSON4 230 63363 FORMAN 4 230 1    2193
               Open 63327 HANKSON4 230 63363 FORMAN 4 230 1                          0.01234 -0.00470   -96.7   -73.3
693  -4986.4 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -59.3   -48.0 -0.00226         -0.00216   -58.1   -47.4
             C:715       2                                3749
               Open 60243 SCOTTAP7 115 62666 GLNDALE7 115 1                         -0.02476  0.00356    31.4    13.7
               Open 60242 SAVAGE 7 115 62668 EGLCKTP7 115 1     NA
               Open 62666 GLNDALE7 115 62672 GLNDALE869.0 1                         -0.02556  0.00008    32.9    32.5
               Open 60243 SCOTTAP7 115 60244 SCOTTCO7 115 1                         -0.00651  0.00158    27.4    19.5
               Open 60194 CARVRCO7 115 60243 SCOTTAP7 115 1                         -0.00273  0.00000     1.2     1.2
               Open 60194 CARVRCO7 115 60931 CARVRCO869.0 1                          0.00007 -0.00021    30.7    31.7
               Open 60190 BLK DOG7 115 60242 SAVAGE 7 115 1                          0.00520 -0.00055    49.7    52.5
               Open 62668 EGLCKTP7 115 62975 SHAKOPE7 115 1     NA
               Open 60244 SCOTTCO7 115 62975 SHAKOPE7 115 1                          0.00377  0.00000    71.1    71.1
               Open 60244 SCOTTCO7 115 60890 SCOTTCO869.0 2                          0.00339 -0.00079    33.6    37.5
694  -4980.5 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          19.9    13.7  0.00124          0.00090    14.0     9.6
             C:60356 PAYNES 4 230 63050 WILLMAR4 230 C1   1366
               Open 60356 PAYNES 4 230 63050 WILLMAR4 230 C1                        -0.03360 -0.01032  -174.0  -122.6
695  -4980.5 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          19.9    13.7  0.00124          0.00090    14.0     9.6
             C:60156 PYNSVIL7 115 60356 PAYNES 4 230 C1   1069
               Open 60156 PYNSVIL7 115 60356 PAYNES 4 230 C1                        -0.03360 -0.01032  -174.0  -122.6
696  -4973.7 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -59.3   -48.0 -0.00227         -0.00216   -58.1   -47.4
             C:60189 BLK DOG4 230 62980 MCLEOD 4 230 1    1121
               Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                          0.00893 -0.01298  -132.0   -67.4
697  -4973.7 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -59.3   -48.0 -0.00227         -0.00216   -58.1   -47.4
             C:60189 BLK DOG4 230 60190 BLK DOG7 115 C1   1120
               Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                        -0.00893  0.01298   132.0    67.4
698  -4973.7 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -59.3   -48.0 -0.00227         -0.00216   -58.1   -47.4
             C:810   C1                                   3770
               Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                          0.00893 -0.01298  -132.0   -67.4
               Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                         0.00931  0.00000    -0.0    -0.0
699  -4963.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -59.2   -48.0 -0.00226         -0.00216   -58.1   -47.4
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            C:SCO-SSK/CAR7                                3678
              Open 60244 SCOTTCO7 115 62975 SHAKOPE7 115 1                          -0.00559  0.00055    21.4    18.7
              Open 60243 SCOTTAP7 115 60244 SCOTTCO7 115 1                           0.01987  0.00158    27.4    19.5
              Open 60194 CARVRCO7 115 60243 SCOTTAP7 115 1                          -0.02587  0.00514    60.0    34.6
              Open 60243 SCOTTAP7 115 62666 GLNDALE7 115 1                           0.02335  0.00000     1.2     1.2
700  -4942.4 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          24.4    19.3  0.00104          0.00055    31.8    29.1
            C:60755 FREEPRT869.0 62829 MILWDTP869.0 1    3120
              Open 60755 FREEPRT869.0 62829 MILWDTP869.0 1                          -0.62927 -0.00078    11.7    15.6
701  -4922.5 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -20.5   -17.3 -0.00066         -0.00090   -25.8   -21.4
            C:62980 MCLEOD 4 230 62981 MCLEOD 7 115 1    2024
              Open 62980 MCLEOD 4 230 62981 MCLEOD 7 115 1                           0.05924  0.00402    88.4    68.6
702  -4919.1 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -59.9   -48.0 -0.00243         -0.00216   -58.1   -47.5
            C:60192 BLUE LK3 345 60217 INVRHLS3 345 1    1126
              Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.00564  0.04835   323.7    85.9
703  -4904.8 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -59.7   -48.0 -0.00239         -0.00216   -65.1   -54.5
            C:61948 BYRON  5 161 61950 BYRON  3 345 1    1697
              Open 61948 BYRON  5 161 61950 BYRON  3 345 1                          -0.02779  0.00828  -193.4  -234.0
704  -4873.9 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -22.0   -17.3 -0.00097         -0.00090   -25.8   -21.4
            C:60114 ELM CRK3 345 60151 MNTCELO3 345 1     974
              Open 60114 ELM CRK3 345 60151 MNTCELO3 345 1                          -0.00655  0.01067  -575.5  -627.5
705  -4818.0 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -149.2  -127.9 -0.00442         -0.00474  -150.7  -127.8
            C:050    1                                    3718
              Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.00229  0.06345   376.0    70.3
              Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.00262 -0.06709  -241.0    82.3
              Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                           0.00000 -0.00187    64.8    73.8
              Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                          -0.00115 -0.00300     0.0    14.5
              Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                          -0.00090 -0.00148   -22.1   -15.0
706  -4815.3 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -149.2  -127.9 -0.00443         -0.00474  -150.7  -127.9
            C:050    2                                    3719
              Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.00231  0.06345   376.0    70.5
              Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.00254 -0.06709  -241.0    82.1
              Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                           0.00000 -0.00187    64.8    73.8
707  -4805.6 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -150.7  -127.9 -0.00474
              Base Case
708  -4794.9 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -152.2  -127.9 -0.00507         -0.00474  -150.7  -128.0
            C:34008 FOX LK 5 161 61932 RUTLAND5 161 1      28
              Open 34008 FOX LK 5 161 61932 RUTLAND5 161 1                          -0.00681  0.04814   223.4    -7.5
709  -4772.5 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -149.0  -127.9 -0.00442         -0.00474  -150.7  -128.1
            C:ASK-RRK/ECL3                                3645
              Open 60186 AS KING3 345 60236 REDROCK3 345 1                           0.00109 -0.01971    56.6   150.7
              Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.00267  0.06345   376.0    73.2
              Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.00255 -0.06709  -241.0    79.2
710  -4764.1 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -152.6  -127.9 -0.00517         -0.00474  -150.7  -128.1
            C:34009 WINBAGO5 161 61932 RUTLAND5 161 1      32
              Open 34009 WINBAGO5 161 61932 RUTLAND5 161 1                           0.00846 -0.05102  -219.8    23.3
711  -4752.9 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -149.4  -127.9 -0.00453         -0.00474  -150.7  -128.2
            C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
              Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.00336  0.06345   376.0    74.4
712  -4746.4 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -56.6   -48.0 -0.00181         -0.00216   -58.1   -47.9
            C:ASK-RRK/ECL3                                3645
              Open 60186 AS KING3 345 60236 REDROCK3 345 1                          -0.00156 -0.01971    56.6   150.2
              Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.00326  0.06345   376.0    74.8
              Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.00157 -0.06709  -241.0    77.5
713  -4740.6 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          20.0    13.7  0.00132          0.00090    14.0     9.8
            C:60703 WATKINS869.0 60704 KIMBALL869.0 1    1407
              Open 60703 WATKINS869.0 60704 KIMBALL869.0 1                           0.32182  0.00132    18.4    12.1
714  -4727.9 L:62280 OGILVIE869.0 62301 MILACA 869.0 1         -43.9   -41.5 -0.00051         -0.00037   -27.9   -26.1
            C:62642 ONAMIA 869.0 62652 RUMRVTP869.0 1    1966
              Open 62642 ONAMIA 869.0 62652 RUMRVTP869.0 1                           0.75782 -0.00019   -21.2   -20.3
715  -4724.1 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -148.8  -127.9 -0.00442         -0.00474  -150.7  -128.3
            C:66296 GRANITFT 230 66550 GRANITF4 230 1    2295
              Open 66296 GRANITFT 230 66550 GRANITF4 230 1                           0.09556  0.00342    20.2     4.0
716  -4723.2 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -148.8  -127.9 -0.00442         -0.00474  -150.7  -128.3
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            C:66296 GRANITFT 230 66551 GRANITF7 115 1    2296
              Open 66296 GRANITFT 230 66551 GRANITF7 115 1                          -0.09556 -0.00342   -20.3    -4.1
717  -4709.0 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -149.6  -127.9 -0.00460         -0.00474  -150.7  -128.4
            C:60156 PYNSVIL7 115 60162 WAKEFLD7 115 C1   1068
              Open 60156 PYNSVIL7 115 60162 WAKEFLD7 115 C1                          0.01749  0.00802    64.0    26.2
718  -4694.6 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -58.1   -48.0 -0.00216
              Base Case
719  -4680.5 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -149.6  -127.9 -0.00464         -0.00474  -150.7  -128.5
            C:66550 GRANITF4 230 66554 MORRIS 4 230 1    2508
              Open 66550 GRANITF4 230 66554 MORRIS 4 230 1                           0.02636  0.00390    40.8    22.5
720  -4676.4 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -151.9  -127.9 -0.00514         -0.00474  -150.7  -128.5
            C:LAKF-FOX DBL                               3784
              Open 34007 LAKEFLD5 161 34008 FOX LK 5 161 1                          -0.00739  0.02660    81.2   -43.2
              Open 34007 LAKEFLD5 161 34008 FOX LK 5 161 2                          -0.00739  0.02728    87.8   -39.8
721  -4658.8 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -19.6   -13.7 -0.00126         -0.00090   -18.3   -14.1
            C:009   8                                    3705
              Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                           0.01013 -0.01571   221.8   295.0
              Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                           0.00202  0.00781   476.3   439.9
              Open 60202 COON CK3 345 60272 MPLEGV23 345 1                           0.00587  0.00000     4.2     4.2
              Open 60202 COON CK3 345 63030 DICKNSN3 345 1                           0.01261 -0.01744  -365.9  -284.7
              Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                           0.00017 -0.00157   390.0   397.3
              Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                           0.00571  0.00000     0.2     0.2
              Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1     NA
722  -4650.2 L:60156 PYNSVIL7 115 60760 PAYNES 869.0 P1         52.4    47.0  0.00117          0.00115    40.4    35.1
            C:60162 WAKEFLD7 115 60717 WAKEFLD869.0 1    1080
              Open 60162 WAKEFLD7 115 60717 WAKEFLD869.0 1                           0.23137  0.00009    52.0    51.6
723  -4650.2 L:60156 PYNSVIL7 115 60760 PAYNES 869.0 P2         52.4    47.0  0.00117          0.00115    40.4    35.1
            C:60162 WAKEFLD7 115 60717 WAKEFLD869.0 1    1080
              Open 60162 WAKEFLD7 115 60717 WAKEFLD869.0 1                           0.23137  0.00009    52.0    51.6
724  -4646.6 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -60.1   -48.0 -0.00260         -0.00216   -51.9   -41.9
            C:60791 FARIBLT869.0 60794 NRSTRND869.0 P1   1465
              Open 60791 FARIBLT869.0 60794 NRSTRND869.0 P1                         -0.27260  0.00161    29.8    22.3
725  -4635.5 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -149.7  -127.9 -0.00470         -0.00474  -150.7  -128.7
            C:62980 MCLEOD 4 230 62981 MCLEOD 7 115 1    2024
              Open 62980 MCLEOD 4 230 62981 MCLEOD 7 115 1                           0.01157  0.00402    88.4    69.8
726  -4629.8 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -149.7  -127.9 -0.00471         -0.00474  -150.7  -128.7
            C:60372 SARATOG7 115 60373 SOUTH E7 115 1    1374
              Open 60372 SARATOG7 115 60373 SOUTH E7 115 1                          -0.03311 -0.00110   -30.3   -25.2
727  -4619.2 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          76.2    36.0  0.00870          0.00284    37.3    24.2
            C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
              Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                          -0.04191 -0.13974  -926.4  -280.9
728  -4602.4 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -149.5  -127.9 -0.00469         -0.00474  -150.7  -128.9
            C:60145 FRANKLN7 115 61954 REDFLST7 115 P1   1042
              Open 60145 FRANKLN7 115 61954 REDFLST7 115 P1                         -0.01989 -0.00255   -60.2   -48.5
729  -4596.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -56.3   -48.0 -0.00181         -0.00216   -58.1   -48.2
            C:050    1                                   3718
              Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.00378  0.06345   376.0    84.3
              Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.00157 -0.06709  -241.0    67.5
              Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                           0.00000 -0.00187    64.8    73.4
              Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                           0.00021 -0.00300     0.0    13.8
              Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                           0.00030 -0.00148   -22.1   -15.3
730  -4596.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -56.3   -48.0 -0.00181         -0.00216   -58.1   -48.2
            C:050    2                                   3719
              Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.00377  0.06345   376.0    84.3
              Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.00159 -0.06709  -241.0    67.5
              Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                           0.00000 -0.00187    64.8    73.4
731  -4588.4 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -149.7  -127.9 -0.00474         -0.00474  -150.7  -128.9
            C:34006 LAKEFLD3 345  3400 G164    34.5 1    2710
              Open 34006 LAKEFLD3 345  3400 G164    34.5 1                          -0.00516  0.00000  -199.8  -199.8
732  -4584.1 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -148.9  -127.9 -0.00459         -0.00474  -150.7  -129.0
            C:60855 TRACYSW869.0 62741 WLNTGTP869.0 1    3191
              Open 60855 TRACYSW869.0 62741 WLNTGTP869.0 1                           0.11658  0.00135    15.2     9.0
733  -4583.0 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -149.6  -127.9 -0.00474         -0.00474  -150.7  -129.0
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            C:63111 CANBY  941.6 63211 CANBY  7 115 1    3408
              Open 63111 CANBY  941.6 63211 CANBY  7 115 1                          0.05645  0.00000    18.7    18.7
734  -4582.1 L:34384 MCARMOR869.0 34396 EMERY N869.0 1         -82.9   -51.0 -0.00695         -0.00199   -43.9   -34.8
            C:34015 LIME CK5 161 34016 EMERY  5 161 1      46
              Open 34015 LIME CK5 161 34016 EMERY  5 161 1                          0.15381 -0.03224  -253.3  -105.6
735  -4569.2 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -149.7  -127.9 -0.00476         -0.00474  -150.7  -129.0
            C:009   2                                  3700
              Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                          0.00071  0.00781   476.3   440.6
              Open 60202 COON CK3 345 60272 MPLEGV23 345 1                          0.00762  0.00000     4.2     4.2
              Open 60114 ELM CRK3 345 60151 MNTCELO3 345 1                         -0.00079  0.01067  -575.5  -624.3
              Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                          0.00092 -0.01571   221.8   293.6
              Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                          0.00004 -0.00157   390.0   397.2
              Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                          0.00758  0.00000     0.2     0.2
              Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1     NA
736  -4566.8 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -148.8  -127.9 -0.00459         -0.00474  -150.7  -129.0
            C:60859 ROCKTAP869.0 60860 PIPESTN869.0 1    1511
              Open 60859 ROCKTAP869.0 60860 PIPESTN869.0 1                         -0.11658 -0.00135   -15.9    -9.7
737  -4558.1 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -149.3  -127.9 -0.00469         -0.00474  -150.7  -129.1
            C:60148 MINVALY7 115 61954 REDFLST7 115 P1   1053
              Open 60148 MINVALY7 115 61954 REDFLST7 115 P1                         0.01989  0.00255    70.6    59.0
738  -4548.2 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -149.5  -127.9 -0.00474         -0.00474  -150.7  -129.1
            C:60835 CHNDLRT869.0  6410 G272    34.5 1    3627
              Open 60835 CHNDLRT869.0  6410 G272    34.5 1                         -0.12352  0.00000    -9.9    -9.9
739  -4545.8 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -149.5  -127.9 -0.00475         -0.00474  -150.7  -129.1
            C:SHC-CNC/ECK3                             3634
              Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                          0.00071  0.00781   476.3   440.8
              Open 60114 ELM CRK3 345 60151 MNTCELO3 345 1                         -0.00148  0.01067  -575.5  -624.0
740  -4541.9 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -149.4  -127.9 -0.00474         -0.00474  -150.7  -129.2
            C:535       1                              3724
              Open 60134 SHEYNNE7 115 60135 CASS CO7 115 1                          0.00018 -0.00005    74.8    75.0
              Open 60134 SHEYNNE7 115 66761 MODEROW7 115 1                          0.00018 -0.00005    84.9    85.1
              Open 60135 CASS CO7 115 66761 MODEROW7 115 1     NA
              Open 60135 CASS CO7 115 60137 REDRIVR7 115 1                          0.01238  0.00000    98.8    98.8
741  -4530.9 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -149.2  -127.9 -0.00471         -0.00474  -150.7  -129.2
            C:60170 MARSHAL7 115 60373 SOUTH E7 115 1    1087
              Open 60170 MARSHAL7 115 60373 SOUTH E7 115 1                          0.03311  0.00110    44.3    39.4
742  -4530.7 L:60170 MARSHAL7 115 60371 ERIE RD7 115 1         149.2   127.9  0.00471          0.00364   106.4    89.8
            C:60170 MARSHAL7 115 60373 SOUTH E7 115 1    1087
              Open 60170 MARSHAL7 115 60373 SOUTH E7 115 1                          0.96689  0.00110    44.3    39.4
743  -4529.8 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -252.3  -200.0 -0.01155         -0.03224  -253.3  -107.3
            C:66563 SPENCER5 161  6450 PRIMGHAR 161 1       8
              Open 66563 SPENCER5 161  6450 PRIMGHAR 161 1                         -0.03207 -0.64513   -30.5  2891.8
744  -4529.2 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -149.4  -127.9 -0.00474         -0.00474  -150.7  -129.2
            C:60022 ANS  73G13.8 61475 ANS TR2Y 115 2    2913
              Open 60022 ANS  73G13.8 61475 ANS TR2Y 115 2                         -0.01242  0.00000  -105.6  -105.6
745  -4529.1 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -149.4  -127.9 -0.00474         -0.00474  -150.7  -129.2
            C:60021 ANS  72G13.8 61475 ANS TR2Y 115 2    2912
              Open 60021 ANS  72G13.8 61475 ANS TR2Y 115 2                         -0.01242  0.00000  -105.6  -105.6
746  -4510.4 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -149.5  -127.9 -0.00479         -0.00474  -150.7  -129.3
            C:PKL-DKN/ECK3                             3638
              Open 60233 PARKERS3 345 60270 MPLEGV13 345 1                         -0.00206  0.00910  -356.8  -397.9
              Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                          0.00198 -0.01571   221.8   292.7
747  -4509.7 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -56.5   -48.0 -0.00188         -0.00216   -58.1   -48.4
            C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
              Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00444  0.06345   376.0    89.8
748  -4507.6 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -149.5  -127.9 -0.00479         -0.00474  -150.7  -129.3
            C:009   5                                  3702
              Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                          0.00198 -0.01571   221.8   292.6
              Open 60270 MPLEGV13 345 63030 DICKNSN3 345 1                         -0.00206  0.00910  -358.4  -399.5
              Open 60233 PARKERS3 345 60270 MPLEGV13 345 1                          0.00631  0.00000     1.6     1.6
749  -4488.6 L:62425 WILLMAR7 115 62427 WILLMAR869.0 1         100.8    84.0  0.00374          0.00127    47.1    41.4
            C:63050 WILLMAR4 230 66550 GRANITF4 230 1    2053
              Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                         -0.24024 -0.01028  -223.5  -177.3
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750  -4479.0 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -148.4  -127.9 -0.00459         -0.00474  -150.7  -129.4
             C:60852 ROCKRIV869.0 62710 CHANDLR869.0 1    3187
               Open 60852 ROCKRIV869.0 62710 CHANDLR869.0 1                          0.11658  0.00135    19.3    13.3
751  -4476.5 L:61653 RIVERTN7 115 62180 RIVTON 869.0 1          59.7    56.0  0.00083          0.00078    46.8    43.3
             C:61910 MILACA 4 230 63045 BENTON 4 230 1    3375
               Open 61910 MILACA 4 230 63045 BENTON 4 230 1                         -0.15043 -0.00032   -86.1   -84.7
752  -4476.5 L:61653 RIVERTN7 115 62180 RIVTON 869.0 1          59.7    56.0  0.00083          0.00078    46.8    43.3
             C:61910 MILACA 4 230 62301 MILACA 869.0 1    1684
               Open 61910 MILACA 4 230 62301 MILACA 869.0 1                          0.15043  0.00032    86.1    84.7
753  -4474.9*L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -149.0  -127.9 -0.00470         -0.00474  -150.7  -129.5
             C:66298 GRANITF869.0 66551 GRANITF7 115 1    2297
               Open 66298 GRANITF869.0 66551 GRANITF7 115 1                         -0.05417 -0.00071   -32.2   -29.0
754  -4446.9 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -17.2   -13.7 -0.00080         -0.00090   -18.3   -14.3
             C:62119 THOMPLK869.0 62137 BCKRNSP869.0 1    1760
               Open 62119 THOMPLK869.0 62137 BCKRNSP869.0 1                         -0.13540 -0.00074    -7.5    -4.2
755  -4443.4 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -17.2   -13.7 -0.00080         -0.00090   -18.3   -14.3
             C:62125 BECKER 869.0 62137 BCKRNSP869.0 1    1768
               Open 62125 BECKER 869.0 62137 BCKRNSP869.0 1                          0.13540  0.00074     7.5     4.2
757  -4434.5 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -58.0   -48.0 -0.00225         -0.00216   -51.9   -42.4
             C:IVH-BLL/RRK3                               3646
               Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.01917  0.04835   323.7   109.3
               Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                          0.01602  0.05191     9.8  -220.4
758  -4434.5 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -58.0   -48.0 -0.00225         -0.00216   -51.9   -42.4
             C:700    2                                   3741
               Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.01917  0.04835   323.7   109.3
               Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                          0.01602  0.05191     9.8  -220.4
759  -4430.5 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -57.3   -48.0 -0.00210         -0.00216   -51.9   -42.4
             C:60217 INVRHLS3 345 60218 INVRHLS7 115 1    1197
               Open 60217 INVRHLS3 345 60218 INVRHLS7 115 1                         -0.01712 -0.00356   312.4   328.2
760  -4413.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -56.9   -48.0 -0.00201         -0.00216   -58.1   -48.6
             C:60108 WILMART3 345 60110 WILMART7 115 1     956
               Open 60108 WILMART3 345 60110 WILMART7 115 1                          0.01115  0.01312   112.2    54.3
761  -4406.0 L:60749 DGLAS C869.0 60750 OSAKIS 869.0 1          39.4    37.0  0.00055          0.00033    26.7    25.3
             C:60768 ELRSATP869.0 62824 ZION TP869.0 1    3133
               Open 60768 ELRSATP869.0 62824 ZION TP869.0 1                         -0.47053 -0.00045   -26.9   -24.9
762  -4402.3 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -56.8   -48.0 -0.00200         -0.00216   -58.1   -48.6
             C:60108 WILMART3 345 60110 WILMART7 115 2     957
               Open 60108 WILMART3 345 60110 WILMART7 115 2                          0.01135  0.01343   114.7    55.5
766  -4393.6 L:60264 LOON LK7 115 61976 LOON LK869.0 1        117.1    75.0  0.00958          0.00538    79.0    55.4
             C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
               Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          0.03714  0.11319  1025.6   528.3
768  -4388.8 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -55.5   -48.0 -0.00170         -0.00216   -58.1   -48.7
             C:60805 WATRVIL869.0 62679 ELYSNTP869.0 1    3154
               Open 60805 WATRVIL869.0 62679 ELYSNTP869.0 1                         -0.14421 -0.00315   -18.4    -4.6
769  -4379.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -56.7   -48.0 -0.00200         -0.00216   -58.1   -48.7
             C:60113 DOME   7 115 60830 EASTWD18 115 P1    972
               Open 60113 DOME   7 115 60830 EASTWD18 115 P1                          0.01532  0.01053    90.4    44.3
770  -4378.5 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          43.1    36.0  0.00162          0.00284    37.3    24.9
             C:60934 WATOWAN869.0 62804 SVEADTP869.0 1    3218
               Open 60934 WATOWAN869.0 62804 SVEADTP869.0 1                          0.35456 -0.00344    16.2    31.3
772  -4376.1 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -59.4   -48.0 -0.00260         -0.00216   -51.9   -42.5
             C:60794 NRSTRND869.0 62389 KENYON 869.0 1    3145
               Open 60794 NRSTRND869.0 62389 KENYON 869.0 1                         -0.27260  0.00161    27.2    20.2
775  -4369.3 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          19.0    13.7  0.00122          0.00090    14.0    10.1
             C:500                                        3721
               Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                         -0.03165 -0.01028  -223.5  -178.6
               Open 62427 WILLMAR869.0 63050 WILLMAR4 230 1                          0.04414  0.00004   -47.0   -47.1
776  -4364.2 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -56.7   -48.0 -0.00200         -0.00216   -58.1   -48.7
             C:60110 WILMART7 115 60113 DOME   7 115 C1    963
               Open 60110 WILMART7 115 60113 DOME   7 115 C1                          0.01532  0.01053    92.5    46.5
779  -4321.3 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -60.1   -48.0 -0.00280         -0.00216   -58.1   -48.8
             C:BLL-PRI/IVH3                               3641
               Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                          0.00653 -0.03963    90.2   261.4
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                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.00786  0.04835   323.7   114.8
780  -4317.6 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -19.4   -13.7 -0.00132         -0.00090   -18.3   -14.4
             C:60712 ANNDALE869.0 60765 MAPLELK869.0 1    1413
                Open 60712 ANNDALE869.0 60765 MAPLELK869.0 1                          -0.32182  0.00132     3.6    -2.1
783  -4303.0 L:60808 EAGLELK869.0 62347 EAGLELK869.0 1         -90.8   -72.0 -0.00437         -0.00322   -57.6   -43.7
             C:60826 TRAVRSE869.0 62323 PNLPNTP869.0 1    3176
                Open 60826 TRAVRSE869.0 62323 PNLPNTP869.0 1                           0.47783 -0.00242   -69.6   -59.2
785  -4294.7 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          17.6    13.7  0.00090          0.00090    14.0    10.2
             C:62986 HUTCHMN869.0 62988 HTCHHTI869.0 1    2031
                Open 62986 HUTCHMN869.0 62988 HTCHHTI869.0 1                           0.08394  0.00000    41.7    41.7
786  -4286.0 L:60144 DGLASCO7 115 60749 DGLAS C869.0 P2         51.0    47.0  0.00094          0.00013    29.5    28.9
             C:750                                        3759
                Open 60144 DGLASCO7 115 62817 LSAUKTP7 115 1                           0.25831  0.00269    -9.8   -21.3
                Open 60144 DGLASCO7 115 60749 DGLAS C869.0 1                           0.81760  0.00013    29.5    28.9
789  -4274.6*L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -56.3   -48.0 -0.00194         -0.00216   -65.1   -55.9
             C:60790 FAIRPRK869.0 60792 WFARBLT869.0 1    1463
                Open 60790 FAIRPRK869.0 60792 WFARBLT869.0 1                          -0.13228 -0.00166   -66.5   -59.4
792  -4237.0 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -59.0   -48.0 -0.00260         -0.00216   -51.9   -42.8
             C:60797 KENYNTP869.0 62389 KENYON 869.0 1    3147
                Open 60797 KENYNTP869.0 62389 KENYON 869.0 1                           0.27260 -0.00161   -25.9   -19.1
793  -4232.8 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         156.5   144.0  0.00296          0.00232   143.5   133.7
             C:CHI-WYO/LIN7                               3653
                Open 60196 CHI    7 115 60345 WYOMING7 115 1                           0.00587 -0.00151    92.1    98.5
                Open 60196 CHI    7 115 60920 LINDSTM7 115 C1                          0.06965  0.00937   179.5   139.8
794  -4218.7 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -17.0   -13.7 -0.00078         -0.00090   -18.3   -14.5
             C:62437 SVEATAP869.0 62438 LITCHTP869.0 1    1904
                Open 62437 SVEATAP869.0 62438 LITCHTP869.0 1                           0.06130  0.00195    20.9    12.7
795  -4192.5 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -56.8   -48.0 -0.00209         -0.00216   -58.1   -49.1
             C:60897 LEBNON 869.0 60905 FRMNGTN869.0 1    1532
                Open 60897 LEBNON 869.0 60905 FRMNGTN869.0 1                          -0.12574 -0.00055   -10.9    -8.6
796  -4183.1 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -57.0   -48.0 -0.00216         -0.00216   -58.1   -49.1
             C:60803 MIESTAP869.0 62238 MIESVIL869.0 1    3150
                Open 60803 MIESTAP869.0 62238 MIESVIL869.0 1                           0.06521 -0.00008    16.6    16.9
797  -4180.8 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          17.4    13.7  0.00090          0.00090    14.0    10.3
             C:60002 SHERC33G26.0 60160 SHERCO 3 345 1    2895
                Open 60002 SHERC33G26.0 60160 SHERCO 3 345 1                          -0.00392  0.00000  -868.0  -868.0
798  -4177.9 L:60809 SJA SWS869.0 62805 STJAMES869.0 1         -72.3   -36.0 -0.00870         -0.00284   -33.5   -21.6
             C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                           0.04191 -0.13974  -926.4  -342.6
799  -4171.2 L:60809 SJA SWS869.0 60709 STJMSMU869.0 1          72.3    36.0  0.00870          0.00284    33.5    21.6
             C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                          -0.04191 -0.13974  -926.4  -343.5
802  -4127.1 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -56.9   -48.0 -0.00216         -0.00216   -58.1   -49.2
             C:815                                        3772
                Open 62225 BURNVIL7 115 62226 FISCHER7 115 1                          -0.00275  0.00202   -13.9   -22.2
                Open 60343 WILLPIP7 115 62226 FISCHER7 115 1     NA
                Open 60343 WILLPIP7 115 62228 APPVLTW7 115 1     NA
                Open 62227 JOHNCAK7 115 62228 APPVLTW7 115 1                           0.01540  0.00000    75.5    75.5
803  -4115.3 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -55.0   -48.0 -0.00170         -0.00216   -58.1   -49.2
             C:60808 EAGLELK869.0 62679 ELYSNTP869.0 1    3158
                Open 60808 EAGLELK869.0 62679 ELYSNTP869.0 1                           0.14421  0.00315    21.6     8.7
804  -4108.0 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -57.1   -48.0 -0.00221         -0.00216   -58.1   -49.3
             C:60802 CANFLS 869.0 62390 SCANNON869.0 1    3149
                Open 60802 CANFLS 869.0 62390 SCANNON869.0 1                           0.17316 -0.00031     6.0     7.3
807  -4078.1 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -56.8   -48.0 -0.00216         -0.00216   -51.9   -43.1
             C:60002 SHERC33G26.0 60160 SHERCO 3 345 1    2895
                Open 60002 SHERC33G26.0 60160 SHERCO 3 345 1                           0.00560  0.00000  -868.0  -868.0
808  -4062.6 L:60938 FTRIDGL869.0 62077 SCHLTP 869.0 1          51.2    37.0  0.00349          0.00152    33.3    27.1
             C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                           0.01742  0.11319  1025.6   565.8
809  -4052.9 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -17.2   -13.7 -0.00086         -0.00090   -18.3   -14.6
             C:66503 BLAIR  4 230 66550 GRANITF4 230 1    2449
                Open 66503 BLAIR  4 230 66550 GRANITF4 230 1                           0.00397  0.00970   271.9   232.6
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810  -4049.2 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -55.5   -48.0 -0.00185         -0.00216   -58.1   -49.4
             C:60110 WILMART7 115 60830 EASTWD18 115 P1    968
               Open 60110 WILMART7 115 60830 EASTWD18 115 P1                          0.02046  0.01501   128.8    68.0
812  -4036.3 L:62003 JOHNJCT7 115 63216 ORTONVL7 115 1        -111.1   -96.6 -0.00360         -0.00270   -85.9   -75.1
             C:66503 BLAIR  4 230 66550 GRANITF4 230 1    2449
               Open 66503 BLAIR  4 230 66550 GRANITF4 230 1                          -0.09257  0.00970   271.9   232.8
813  -4023.5 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          42.5    36.0  0.00162          0.00284    37.3    25.9
             C:60935 BUTRFLD869.0 62804 SVEADTP869.0 1    3221
               Open 60935 BUTRFLD869.0 62804 SVEADTP869.0 1                          -0.35456  0.00344   -14.6   -28.4
814  -4008.8 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         155.9   144.0  0.00297          0.00232   143.5   134.2
             C:60196 CHI    7 115 60920 LINDSTM7 115 C1   1141
               Open 60196 CHI    7 115 60920 LINDSTM7 115 C1                           0.06904  0.00937   179.5   141.9
816  -3996.3 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -52.8   -47.0 -0.00145         -0.00211   -72.7   -64.3
             C:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1    1461
               Open 60789 CIRCLTP869.0 60790 FAIRPRK869.0 1                          -0.30553 -0.00216   -65.1   -56.5
817  -3987.8 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -57.1   -48.0 -0.00228         -0.00216   -58.1   -49.5
             C:60104 CANNFLS7 115 62235 EMPIRE 7 115 1    2938
               Open 60104 CANNFLS7 115 62235 EMPIRE 7 115 1                           0.06241 -0.00193    16.7    24.4
818  -3984.9 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -17.2   -13.7 -0.00088         -0.00090   -18.3   -14.7
             C:62105 DAYTON 869.0 62114 RDFTAP 869.0 1    1742
               Open 62105 DAYTON 869.0 62114 RDFTAP 869.0 1                          -0.02535 -0.00056   -41.1   -38.9
822  -3944.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -56.5   -48.0 -0.00216         -0.00216   -58.1   -49.6
             C:60788 VALLYTP869.0 62870 VLLYGRV869.0 1    3141
               Open 60788 VALLYTP869.0 62870 VLLYGRV869.0 1                           0.59343  0.00000     2.7     2.7
823  -3936.4 L:60170 MARSHAL7 115 60371 ERIE RD7 115 1         141.7   127.9  0.00351          0.00364   106.4    92.0
             C: 6001 YANKEE 7 115 66337 WHITE2 7 115 1       2
               Open  6001 YANKEE 7 115 66337 WHITE2 7 115 1                           0.11219 -0.00116   315.3   319.9
824  -3912.5 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -17.2   -13.7 -0.00088         -0.00090   -18.3   -14.8
             C:62114 RDFTAP 869.0 63020 ELK RIV869.0 1    1753
               Open 62114 RDFTAP 869.0 63020 ELK RIV869.0 1                          -0.02535 -0.00056   -43.6   -41.4
825  -3905.2 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          17.4    13.7  0.00095          0.00090    14.0    10.5
             C:60152 MNTCELO4 230 63043 ELK RIV4 230 1    1060
               Open 60152 MNTCELO4 230 63043 ELK RIV4 230 1                           0.01554  0.00333   216.0   202.9
826  -3902.7 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -57.9   -48.0 -0.00254         -0.00216   -51.9   -43.5
             C:700    1                                   3740
               Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                           0.00507 -0.03963    90.2   244.8
               Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.02037  0.04835   323.7   135.0
               Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                           0.01540  0.05191     9.8  -192.8
828  -3859.9 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         156.1   144.0  0.00315          0.00232   143.5   134.5
             C:61051 STCRFL5G 161 69565 APL RVR5 161 C1   3304
               Open 61051 STCRFL5G 161 69565 APL RVR5 161 C1                          0.07890  0.01050   160.3   119.8
829  -3856.5 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -19.2   -17.3 -0.00050         -0.00090   -25.8   -22.3
             C:60150 MNVLTAP4 230 63054 PANTHER4 230 1    2955
               Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                           0.02351  0.01686   278.5   213.5
830  -3836.7 L:60652 CROWRV 869.0 62931 DELANO 869.0 1          44.8    41.5  0.00087          0.00100    25.8    22.0
             C:655                                       3728
               Open 60206 CROWRVR7 115 62924 MEDINA 7 115 1                           0.03762  0.00111    54.8    50.5
               Open 62924 MEDINA 7 115 62951 MEDINA 869.0 1                           0.63536 -0.00027    26.6    27.7
831  -3830.6 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -17.1   -13.7 -0.00090         -0.00090   -18.3   -14.8
             C:62948 BLACKLK869.0 62949 BLKLKTP869.0 1    2022
               Open 62948 BLACKLK869.0 62949 BLKLKTP869.0 1                           0.20362  0.00000     5.5     5.5
832  -3829.1 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -55.7   -48.0 -0.00201         -0.00216   -58.1   -49.9
             C:60905 FRMNGTN869.0 62256 CSTL RK869.0 1    3208
               Open 60905 FRMNGTN869.0 62256 CSTL RK869.0 1                          -0.47993 -0.00031    -5.1    -3.9
833  -3822.7 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -17.2   -13.7 -0.00093         -0.00090   -18.3   -14.8
             C:PKL-GSL 115                               3665
               Open 60211 GLESNLK7 115 60234 PARKERS7 115 1                          -0.00946  0.00152   -54.0   -59.8
               Open 60211 GLESNLK7 115 60234 PARKERS7 115 2                          -0.00946  0.00152   -54.0   -59.8
834  -3822.7 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -17.2   -13.7 -0.00093         -0.00090   -18.3   -14.8
             C:720                                       3753
               Open 60211 GLESNLK7 115 60234 PARKERS7 115 1                          -0.00946  0.00152   -54.0   -59.8
               Open 60211 GLESNLK7 115 60234 PARKERS7 115 2                          -0.00946  0.00152   -54.0   -59.8
837  -3759.9 L:60170 MARSHAL7 115 60371 ERIE RD7 115 1         141.1   127.9  0.00351          0.00364   106.4    92.7
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            C:66537 WHITE  3 345 66337 WHITE2 7 115 P2   2311
              Open 66537 WHITE  3 345 66337 WHITE2 7 115 P2                          -0.11219  0.00116  -309.8  -314.1
838  -3755.0 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -56.3   -48.0 -0.00221         -0.00216   -58.1   -50.0
            C:60801 CNFLSTR869.0 60802 CANFLS 869.0 1    1473
              Open 60801 CNFLSTR869.0 60802 CANFLS 869.0 1                           0.17316 -0.00031    10.5    11.7
839  -3753.3 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          15.9    13.7  0.00060          0.00090    14.0    10.7
            C:62125 BECKER 869.0 62939 SILVERC869.0 1    1769
              Open 62125 BECKER 869.0 62939 SILVERC869.0 1                           0.30521 -0.00099     6.2     9.9
840  -3733.4 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          17.0    13.7  0.00089          0.00090    14.0    10.7
            C:60151 MNTCELO3 345 60152 MNTCELO4 230 1    1057
              Open 60151 MNTCELO3 345 60152 MNTCELO4 230 1                           0.01145 -0.00093   258.5   262.0
841  -3728.2 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -70.5   -66.0 -0.00119         -0.00166   -66.5   -60.3
            C:60787 NOFIELD869.0 60801 CNFLSTR869.0 1    1459
              Open 60787 NOFIELD869.0 60801 CNFLSTR869.0 1                           0.25137  0.00185   -15.7   -22.5
842  -3727.8 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -21.0   -17.3 -0.00098         -0.00090   -25.8   -22.4
            C:009   2                                    3700
              Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                           0.00318  0.00781   476.3   447.1
              Open 60202 COON CK3 345 60272 MPLEGV23 345 1                           0.00354  0.00000     4.2     4.2
              Open 60114 ELM CRK3 345 60151 MNTCELO3 345 1                          -0.00432  0.01067  -575.5  -615.3
              Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                           0.00396 -0.01571   221.8   280.4
              Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                          -0.00018 -0.00157   390.0   395.8
              Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                           0.00372  0.00000     0.2     0.2
              Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1     NA
843  -3703.6 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -55.4   -48.0 -0.00199         -0.00216   -51.9   -44.0
            C:60103 CANNFLS5 161 63071 SPRNGCK5 161 1    2937
              Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                           0.05494  0.00307   -62.4   -73.7
844  -3700.9 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -17.2   -13.7 -0.00096         -0.00090   -18.3   -14.9
            C:60707 BLUEHRN869.0 60717 WAKEFLD869.0 1    1410
              Open 60707 BLUEHRN869.0 60717 WAKEFLD869.0 1                          -0.04802  0.00123   -21.3   -25.8
845  -3692.8 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -57.6   -48.0 -0.00260         -0.00216   -51.9   -44.0
            C:60796 KENYON 869.0 60797 KENYNTP869.0 1    1468
              Open 60796 KENYON 869.0 60797 KENYNTP869.0 1                           0.27260 -0.00161   -20.7   -14.8
846  -3682.9 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -55.3   -48.0 -0.00199         -0.00216   -51.9   -44.0
            C:60103 CANNFLS5 161 60104 CANNFLS7 115 1     945
              Open 60103 CANNFLS5 161 60104 CANNFLS7 115 1                          -0.05494 -0.00307    61.6    72.9
847  -3678.5 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          42.0    36.0  0.00162          0.00284    37.3    26.9
            C:34231 MT LAKE869.0 60935 BUTRFLD869.0 1     384
              Open 34231 MT LAKE869.0 60935 BUTRFLD869.0 1                          -0.35456  0.00344   -13.0   -25.7
848  -3678.0 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -55.3   -48.0 -0.00199         -0.00216   -51.9   -44.0
            C:740    2                                   3758
              Open 60103 CANNFLS5 161 60104 CANNFLS7 115 1                          -0.05494 -0.00307    61.6    72.9
              Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                           0.01291  0.00000     0.7     0.7
849  -3676.3 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          23.1    19.3  0.00104          0.00055    31.8    29.8
            C:60755 FREEPRT869.0 60756 ALBANY 869.0 1    1435
              Open 60755 FREEPRT869.0 60756 ALBANY 869.0 1                           0.62927  0.00078   -13.8   -16.7
850  -3674.4 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -16.6   -13.7 -0.00078         -0.00090   -18.3   -15.0
            C:62427 WILLMAR869.0 62437 SVEATAP869.0 1    1892
              Open 62427 WILLMAR869.0 62437 SVEATAP869.0 1                           0.06130  0.00195    27.8    20.6
851  -3671.6 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -55.9   -48.0 -0.00216         -0.00216   -51.9   -44.0
            C:60001 SHERC32G24.0 60160 SHERCO 3 345 1    2894
              Open 60001 SHERC32G24.0 60160 SHERCO 3 345 1                           0.00560  0.00000  -711.4  -711.4
852  -3667.5 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -55.9   -48.0 -0.00216         -0.00216   -51.9   -44.0
            C:60000 SHERC31G24.0 60160 SHERCO 3 345 1    2893
              Open 60000 SHERC31G24.0 60160 SHERCO 3 345 1                           0.00560  0.00000  -709.8  -709.8
853  -3649.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -61.9   -48.0 -0.00382         -0.00216   -58.1   -50.3
            C:61948 BYRON  5 161 61964 OWATNNA5 161 1    1698
              Open 61948 BYRON  5 161 61964 OWATNNA5 161 1                           0.08197 -0.02026   -46.5    27.5
854  -3620.1 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -55.8   -48.0 -0.00216         -0.00216   -58.1   -50.3
            C:60110 WILMART7 115  8006 G261-CT115.0 1    2942
              Open 60110 WILMART7 115  8006 G261-CT115.0 1                          -0.01359  0.00000  -170.5  -170.5
855  -3620.1 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -55.8   -48.0 -0.00216         -0.00216   -58.1   -50.3
            C:60110 WILMART7 115  8007 G261-CT215.0 1    2943
              Open 60110 WILMART7 115  8007 G261-CT215.0 1                          -0.01359  0.00000  -170.5  -170.5
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856  -3615.0 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -61.8   -48.0 -0.00382         -0.00216   -58.1   -50.3
             C:BYN-WOW/KAN5                                  3656
               Open 61948 BYRON  5 161 61964 OWATNNA5 161 1                          0.08197 -0.02026   -46.5    26.8
               Open 60799 KASSON 869.0 61161 BYRON  869.0 1                          0.00368  0.00000    36.1    36.1
857  -3612.2 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -55.8   -48.0 -0.00216         -0.00216   -58.1   -50.3
             C:60108 WILMART3 345  8001 G261-ST 19.5 1    2941
               Open 60108 WILMART3 345  8001 G261-ST 19.5 1                         -0.00716  0.00000  -326.0  -326.0
858  -3608.7 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         154.7   144.0  0.00297          0.00232   143.5   135.1
             C:60920 LINDSTM7 115 62276 SHAFER 7 115 C1   3212
               Open 60920 LINDSTM7 115 62276 SHAFER 7 115 C1                          0.06904  0.00937   162.3   128.5
859  -3555.6 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -55.5   -48.0 -0.00210         -0.00216   -58.1   -50.5
             C:60790 FAIRPRK869.0 60791 FARIBLT869.0 1    1462
               Open 60790 FAIRPRK869.0 60791 FARIBLT869.0 1                         -0.11872 -0.00050   -22.5   -20.7
860  -3542.3 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -16.5   -13.7 -0.00078         -0.00090   -18.3   -15.1
             C:022       1                                   3706
               Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          0.00264  0.02473   273.5   185.9
               Open 60221 KOLMNLK3 345 60251 TERMINL3 345 1                         -0.00046 -0.02272   209.4   289.8
               Open 60202 COON CK3 345 60251 TERMINL3 345 1                          0.00218  0.01927   549.2   481.0
               Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                         -0.00011  0.00023   225.9   225.1
               Open 60251 TERMINL3 345 61492 TERMID1Y 345 1     NA
               Open 60252 TERMINL7 115 61492 TERMID1Y 345 1                         -0.00000  0.00172  -377.2  -383.3
               Open 61187 TERTER1934.5 61492 TERMID1Y 345 1     NA
               Open 60251 TERMINL3 345 61491 TERMID2Y 345 1     NA
               Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                          0.00178  0.00000     0.7     0.7
               Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
861  -3529.8 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -16.7   -13.7 -0.00086         -0.00090   -18.3   -15.1
             C:60202 COON CK3 345 63031 BUNKER 3 345 1    1159
               Open 60202 COON CK3 345 63031 BUNKER 3 345 1                         -0.00512 -0.00793  -300.1  -272.1
862  -3526.2 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -245.8  -200.0 -0.01298         -0.03224  -253.3  -139.6
             C:34139 HANCOCK5 161 63716 BURT   5 161 1    2809
               Open 34139 HANCOCK5 161 63716 BURT   5 161 1                         -0.26416 -0.07289   -28.4   228.6
863  -3525.5 L:60264 LOON LK7 115 61976 LOON LK869.0 1         107.1    75.0  0.00912          0.00538    79.0    60.1
             C:60107 W FARIB7 115 60265 LOON TP7 115 C1    952
               Open 60107 W FARIB7 115 60265 LOON TP7 115 C1                        -0.18527 -0.02016  -151.8   -80.7
864  -3499.9 L:66298 GRANITF869.0 66551 GRANITF7 115 1         -45.0   -42.0 -0.00085         -0.00071   -32.2   -29.7
             C:500                                           3721
               Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                          0.01399 -0.01028  -223.5  -187.5
               Open 62427 WILLMAR869.0 63050 WILLMAR4 230 1                          0.20642  0.00004   -47.0   -47.1
865  -3499.7 L:60786 DUNDAS 869.0 60787 NOFIELD869.0 1          69.0    48.0  0.00600          0.00216    34.2    26.6
             C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
               Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          0.03397  0.11319  1025.6   629.5
866  -3496.4 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          16.8    13.7  0.00090          0.00090    14.0    10.9
             C:60001 SHERC32G24.0 60160 SHERCO 3 345 1    2894
               Open 60001 SHERC32G24.0 60160 SHERCO 3 345 1                         -0.00392  0.00000  -711.4  -711.4
867  -3489.4 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          16.8    13.7  0.00090          0.00090    14.0    10.9
             C:60000 SHERC31G24.0 60160 SHERCO 3 345 1    2893
               Open 60000 SHERC31G24.0 60160 SHERCO 3 345 1                         -0.00392  0.00000  -709.8  -709.8
868  -3486.0 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         154.3   144.0  0.00297          0.00232   143.5   135.4
             C:61128 LAW CRK7 115 62276 SHAFER 7 115 C1   3341
               Open 61128 LAW CRK7 115 62276 SHAFER 7 115 C1                        -0.06904 -0.00937  -157.0  -124.4
869  -3473.4 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         154.9   144.0  0.00315          0.00232   143.5   135.4
             C:61051 STCRFL5G 161 61131 LAW CRK5 161 C1   1654
               Open 61051 STCRFL5G 161 61131 LAW CRK5 161 C1                        -0.07890 -0.01050  -144.9  -108.4
870  -3468.9 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -71.3   -66.0 -0.00154         -0.00166   -66.5   -60.8
             C:60104 CANNFLS7 115 60801 CNFLSTR869.0 1     946
               Open 60104 CANNFLS7 115 60801 CNFLSTR869.0 1                         -0.10750 -0.00113    44.8    48.7
871  -3464.0 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          17.4    13.7  0.00105          0.00090    14.0    10.9
             C:60202 COON CK3 345 63030 DICKNSN3 345 1    1158
               Open 60202 COON CK3 345 63030 DICKNSN3 345 1                         -0.00903 -0.01744  -365.9  -305.5
872  -3454.1 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -55.4   -48.0 -0.00216         -0.00216   -51.9   -44.5
             C:60006 KING 31G20.0 60186 AS KING3 345 1    2899
               Open 60006 KING 31G20.0 60186 AS KING3 345 1                          0.00609  0.00000  -576.7  -576.7
873  -3452.1 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -57.0   -48.0 -0.00260         -0.00216   -51.9   -44.5
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            C:60796 KENYON 869.0 60819 CHERYTP869.0 1    1469
              Open 60796 KENYON 869.0 60819 CHERYTP869.0 1                          -0.27260  0.00161    18.4    12.9
874  -3416.1 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1          -55.4   -48.0 -0.00216          -0.00216   -51.9   -44.6
            C:60003 PR IS31G20.0 60105 PR ISLD3 345 1    2896
              Open 60003 PR IS31G20.0 60105 PR ISLD3 345 1                           0.00645  0.00000  -531.4  -531.4
875  -3414.3 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1          -54.7   -48.0 -0.00197          -0.00216   -58.1   -50.8
            C:60808 EAGLELK869.0 62347 EAGLELK869.0 1    3156
              Open 60808 EAGLELK869.0 62347 EAGLELK869.0 1                          -0.05926 -0.00322   -57.6   -46.6
876  -3374.4 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1          -55.3   -48.0 -0.00216          -0.00216   -51.9   -44.7
            C:60004 PR IS32G20.0 60105 PR ISLD3 345 1    2897
              Open 60004 PR IS32G20.0 60105 PR ISLD3 345 1                           0.00645  0.00000  -517.4  -517.4
877  -3358.7 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1           16.7    13.7  0.00089           0.00090    14.0    11.0
            C:63031 BUNKER 3 345 63046 BUNKER 4 230 1    2037
              Open 63031 BUNKER 3 345 63046 BUNKER 4 230 1                           0.01369 -0.00026   193.8   194.7
878  -3335.8 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1          -55.2   -48.0 -0.00216          -0.00216   -51.9   -44.7
            C:60005 MNTCE31G22.0 60151 MNTCELO3 345 1    2898
              Open 60005 MNTCE31G22.0 60151 MNTCELO3 345 1                           0.00553  0.00000  -588.5  -588.5
879  -3311.2 L:62429 PNNCKTP869.0 66298 GRANITF869.0 1          -26.6   -24.3 -0.00071          -0.00071   -16.4   -14.1
            C:62427 WILLMAR869.0 63050 WILLMAR4 230 1    1895
              Open 62427 WILLMAR869.0 63050 WILLMAR4 230 1                           0.21762  0.00004   -47.0   -47.1
880  -3309.7 L:60749 DGLAS C869.0 60750 OSAKIS 869.0 1           40.8    37.0  0.00115           0.00033    26.7    25.6
            C:500                                        3721
              Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                          -0.07906 -0.01028  -223.5  -189.5
              Open 62427 WILLMAR869.0 63050 WILLMAR4 230 1                           0.07685  0.00004   -47.0   -47.1
881  -3309.2 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1          -16.6   -13.7 -0.00087          -0.00090   -18.3   -15.3
            C:SHC-CNC/BUL3                               3633
              Open 60160 SHERCO 3 345 60202 COON CK3 345 1                           0.00207  0.00770   469.4   444.0
              Open 60160 SHERCO 3 345 63031 BUNKER 3 345 1                           0.00142  0.00766   498.2   472.8
882  -3301.6 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1          -16.3   -13.7 -0.00079          -0.00090   -18.3   -15.3
            C:022       3                                3707
              Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                           0.00251  0.02473   273.5   191.8
              Open 60202 COON CK3 345 60251 TERMINL3 345 1                           0.00246  0.01927   549.2   485.6
              Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                          -0.00003  0.00023   225.9   225.1
              Open 60251 TERMINL3 345 61491 TERMID2Y 345 1                          -0.00019 -0.00173   381.0   386.7
              Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                           0.00164  0.00000     0.2     0.2
              Open 61188 TERTER2934.5 61491 TERMID2Y 345 1      NA
883  -3295.5 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1          -54.5   -48.0 -0.00197          -0.00216   -58.1   -51.0
            C:60831 EASTWD2869.0 62347 EAGLELK869.0 1    3181
              Open 60831 EASTWD2869.0 62347 EAGLELK869.0 1                           0.05926  0.00322    61.5    50.9
884  -3275.8 L:60145 FRANKLN7 115 60728 FRANKLN869.0 2           50.7    47.0  0.00112           0.00115    38.5    34.7
            C:60742 PANTHER869.0 63054 PANTHER4 230 1    3109
              Open 60742 PANTHER869.0 63054 PANTHER4 230 1                          -0.26720  0.00014   -45.6   -46.0
885  -3275.8 L:60145 FRANKLN7 115 60728 FRANKLN869.0 1           50.7    47.0  0.00112           0.00115    38.5    34.7
            C:60742 PANTHER869.0 63054 PANTHER4 230 1    3109
              Open 60742 PANTHER869.0 63054 PANTHER4 230 1                          -0.26720  0.00014   -45.6   -46.0
887  -3261.0 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1           18.0    13.7  0.00132           0.00090    14.0    11.1
            C:60704 KIMBALL869.0 60761 SOUTHVN869.0 1    1408
              Open 60704 KIMBALL869.0 60761 SOUTHVN869.0 1                           0.32182  0.00132    12.3     8.0
888  -3247.6 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1           15.4    13.7  0.00051           0.00090    14.0    11.1
            C:62935 MAPLELK869.0 62949 BLKLKTP869.0 1    2009
              Open 62935 MAPLELK869.0 62949 BLKLKTP869.0 1                          -0.31429  0.00123    -4.2    -8.2
889  -3240.8 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1          -16.9   -13.7 -0.00099          -0.00090   -18.3   -15.4
            C:009   5                                    3702
              Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                           0.00621 -0.01571   221.8   272.7
              Open 60270 MPLEGV13 345 63030 DICKNSN3 345 1                           0.00010  0.00910  -358.4  -387.9
              Open 60233 PARKERS3 345 60270 MPLEGV13 345 1                          -0.00121  0.00000     1.6     1.6
890  -3239.7 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1          150.6   144.0  0.00203           0.00232   143.5   136.0
            C:ASK-RRK/ECL3                               3645
              Open 60186 AS KING3 345 60236 REDROCK3 345 1                           0.00216 -0.01971    56.6   120.5
              Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.05293  0.06345   376.0   170.4
              Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.05371 -0.06709  -241.0   -23.6
891  -3238.7 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1          -16.3   -13.7 -0.00079          -0.00090   -18.3   -15.4
            C:CNC-KOL/TER3                               3636
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                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          0.00248  0.02473   273.5   193.4
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                          0.00241  0.01927   549.2   486.8
892  -3238.6 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -16.9   -13.7 -0.00099         -0.00090   -18.3   -15.4
             C:PKL-DKN/ECK3                                 3638
                Open 60233 PARKERS3 345 60270 MPLEGV13 345 1                          0.00010  0.00910  -356.8  -386.3
                Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                          0.00621 -0.01571   221.8   272.7
893  -3200.1 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -58.8   -48.0 -0.00337         -0.00216   -51.9   -45.0
             C:60107 W FARIB7 115 61952 S FARIB5 161 1     955
                Open 60107 W FARIB7 115 61952 S FARIB5 161 1                         -0.08328  0.01456    82.2    35.6
894  -3190.3 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -16.9   -13.7 -0.00100         -0.00090   -18.3   -15.4
             C:60114 ELM CRK3 345 60233 PARKERS3 345 1     975
                Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                          0.00625 -0.01571   221.8   271.9
897  -3182.4 L:34206 WAPELLO869.0 34553 WAPELO2Y 161 2        -145.4  -131.0 -0.00453         -0.00262   -84.2   -75.9
             C:34206 WAPELLO869.0 34552 WAPELO1Y 161 1     337
                Open 34206 WAPELLO869.0 34552 WAPELO1Y 161 1                          0.73080 -0.00261   -83.8   -75.5
898  -3182.4 L:34206 WAPELLO869.0 34553 WAPELO2Y 161 2        -145.4  -131.0 -0.00453         -0.00262   -84.2   -75.9
             C:WAPELLO T1                                   3789
                Open 34182 WAPELLO5 161 34552 WAPELO1Y 161 1                         -0.73080  0.00261    83.8    75.5
                Open 34206 WAPELLO869.0 34552 WAPELO1Y 161 1                          0.64972  0.00000    -0.0    -0.0
899  -3182.4 L:34206 WAPELLO869.0 34553 WAPELO2Y 161 2        -145.4  -131.0 -0.00453         -0.00262   -84.2   -75.9
             C:34182 WAPELLO5 161 34552 WAPELO1Y 161 1     296
                Open 34182 WAPELLO5 161 34552 WAPELO1Y 161 1                         -0.73080  0.00261    83.8    75.5
900  -3182.4 L:34182 WAPELLO5 161 34553 WAPELO2Y 161 2         145.4   131.0  0.00453          0.00262    84.2    75.9
             C:34206 WAPELLO869.0 34552 WAPELO1Y 161 1     337
                Open 34206 WAPELLO869.0 34552 WAPELO1Y 161 1                         -0.73080 -0.00261   -83.8   -75.5
901  -3182.4 L:34182 WAPELLO5 161 34553 WAPELO2Y 161 2         145.4   131.0  0.00453          0.00262    84.2    75.9
             C:WAPELLO T1                                   3789
                Open 34182 WAPELLO5 161 34552 WAPELO1Y 161 1                          0.73080  0.00261    83.8    75.5
                Open 34206 WAPELLO869.0 34552 WAPELO1Y 161 1                         -0.64972  0.00000    -0.0    -0.0
902  -3182.4 L:34182 WAPELLO5 161 34553 WAPELO2Y 161 2         145.4   131.0  0.00453          0.00262    84.2    75.9
             C:34182 WAPELLO5 161 34552 WAPELO1Y 161 1     296
                Open 34182 WAPELLO5 161 34552 WAPELO1Y 161 1                          0.73080  0.00261    83.8    75.5
903  -3179.9 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -58.7   -48.0 -0.00337         -0.00216   -51.9   -45.1
             C:61952 S FARIB5 161 61964 OWATNNA5 161 1    1699
                Open 61952 S FARIB5 161 61964 OWATNNA5 161 1                         -0.08328  0.01456    81.4    35.1
904  -3165.0 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -56.2   -48.0 -0.00260         -0.00216   -51.9   -45.1
             C:60818 ZUMBRTA869.0 60819 CHERYTP869.0 1    1480
                Open 60818 ZUMBRTA869.0 60819 CHERYTP869.0 1                          0.27260 -0.00161   -15.7   -10.6
905  -3158.3 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          17.9    13.7  0.00132          0.00090    14.0    11.2
             C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          0.00372  0.11319  1025.6   668.1
906  -3140.8 L:34206 WAPELLO869.0 34552 WAPELO1Y 161 1        -145.2  -131.0 -0.00452         -0.00261   -83.8   -75.6
             C:WAPELLO T2                                   3790
                Open 34182 WAPELLO5 161 34553 WAPELO2Y 161 2                         -0.72974  0.00262    84.2    76.0
                Open 34206 WAPELLO869.0 34553 WAPELO2Y 161 2                          0.64878  0.00000    -0.0    -0.0
907  -3140.8 L:34206 WAPELLO869.0 34552 WAPELO1Y 161 1        -145.2  -131.0 -0.00452         -0.00261   -83.8   -75.6
             C:34206 WAPELLO869.0 34553 WAPELO2Y 161 2     338
                Open 34206 WAPELLO869.0 34553 WAPELO2Y 161 2                          0.72974 -0.00262   -84.2   -76.0
908  -3140.7 L:34206 WAPELLO869.0 34552 WAPELO1Y 161 1        -145.2  -131.0 -0.00452         -0.00261   -83.8   -75.6
             C:34182 WAPELLO5 161 34553 WAPELO2Y 161 2     297
                Open 34182 WAPELLO5 161 34553 WAPELO2Y 161 2                         -0.72974  0.00262    84.2    76.0
909  -3140.7 L:34182 WAPELLO5 161 34552 WAPELO1Y 161 1         145.2   131.0  0.00452          0.00261    83.8    75.6
             C:34206 WAPELLO869.0 34553 WAPELO2Y 161 2     338
                Open 34206 WAPELLO869.0 34553 WAPELO2Y 161 2                         -0.72974 -0.00262   -84.2   -76.0
910  -3140.7 L:34182 WAPELLO5 161 34552 WAPELO1Y 161 1         145.2   131.0  0.00452          0.00261    83.8    75.6
             C:WAPELLO T2                                   3790
                Open 34182 WAPELLO5 161 34553 WAPELO2Y 161 2                          0.72974  0.00262    84.2    76.0
                Open 34206 WAPELLO869.0 34553 WAPELO2Y 161 2                         -0.64878  0.00000    -0.0    -0.0
911  -3140.7 L:34182 WAPELLO5 161 34552 WAPELO1Y 161 1         145.2   131.0  0.00452          0.00261    83.8    75.6
             C:34182 WAPELLO5 161 34553 WAPELO2Y 161 2     297
                Open 34182 WAPELLO5 161 34553 WAPELO2Y 161 2                          0.72974  0.00262    84.2    76.0
912  -3138.5 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          17.9    13.7  0.00132          0.00090    14.0    11.2
             C:60712 ANNDALE869.0 60761 SOUTHVN869.0 1    1412
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                Open 60712 ANNDALE869.0 60761 SOUTHVN869.0 1                          -0.32182 -0.00132   -11.8    -7.7
913  -3134.9 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          16.5    13.7  0.00090          0.00090    14.0    11.2
              C:62984 HUTCHPT869.0 62988 HTCHHTI869.0 1    2028
                Open 62984 HUTCHPT869.0 62988 HTCHHTI869.0 1                           0.08394  0.00000    29.3    29.3
914  -3131.9 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          16.9    13.7  0.00103          0.00090    14.0    11.2
              C:63050 WILLMAR4 230 66550 GRANITF4 230 1    2053
                Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                          -0.01286 -0.01028  -223.5  -191.3
915  -3114.6 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          17.0    13.7  0.00105          0.00090    14.0    11.3
              C:CNC-DKN/SHC3                               3637
                Open 60202 COON CK3 345 63030 DICKNSN3 345 1                          -0.00893 -0.01744  -365.9  -311.6
                Open 60202 COON CK3 345 60272 MPLEGV23 345 1                           0.00075 -0.00781  -472.1  -447.8
916  -3098.3 L:60119 LKYNKTN7 115 60279 BUFFRID7 115 1        -305.3  -292.0 -0.00430         -0.00488  -149.2  -134.1
              C: 6001 YANKEE 7 115 66337 WHITE2 7 115 1       2
                Open  6001 YANKEE 7 115 66337 WHITE2 7 115 1                          -0.49521 -0.00116   315.3   318.9
917  -3091.0 L:60157 STCLOUD7 115 60159 STCTPW 7 115 1        -119.3  -113.0 -0.00203         -0.00461   -34.1   -19.8
              C:BEN-GRC/SCL7                               3655
                Open 60143 BENTON 7 115 60146 GRANCTY7 115 1                          -0.30132 -0.00357   147.7   158.7
                Open 60143 BENTON 7 115 60348 BENCTP7  115 1                          -0.30132 -0.00368   127.1   138.5
                Open 60157 STCLOUD7 115 60348 BENCTP7  115 1                           0.09295  0.00427   -26.2   -39.4
918  -3071.7 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -54.0   -48.0 -0.00197         -0.00216   -58.1   -51.5
              C:60650 WILMART869.0 60831 EASTWD2869.0 1    1377
                Open 60650 WILMART869.0 60831 EASTWD2869.0 1                           0.05926  0.00322    68.9    59.1
919  -3071.4 L:60831 EASTWD2869.0 62347 EAGLELK869.0 1          92.3    72.0  0.00662          0.00322    61.5    51.6
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                           0.03004  0.11319  1025.6   677.9
920  -3050.8 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         150.2   144.0  0.00203          0.00232   143.5   136.4
              C:050    2                                   3719
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.05222  0.06345   376.0   182.4
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.05374 -0.06709  -241.0   -36.3
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                           0.00000 -0.00187    64.8    70.5
921  -3037.9 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -16.1   -13.7 -0.00078         -0.00090   -18.3   -15.5
              C:60150 MNVLTAP4 230 66550 GRANITF4 230 1    1056
                Open 60150 MNVLTAP4 230 66550 GRANITF4 230 1                          -0.00835 -0.01397  -262.1  -219.7
922  -3029.8 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -15.7   -13.7 -0.00066         -0.00090   -18.3   -15.5
              C:62982 HUTCHMN7 115 62983 HUTCH3M7 115 1    2026
                Open 62982 HUTCHMN7 115 62983 HUTCH3M7 115 1                          -0.05924 -0.00402   -43.3   -31.1
923  -3020.1 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -54.5   -48.0 -0.00216         -0.00216   -51.9   -45.4
              C:60789 CIRCLTP869.0 62872 FARIBLT869.0 1    3142
                Open 60789 CIRCLTP869.0 62872 FARIBLT869.0 1                          -0.38643  0.00000     6.7     6.7
925  -3010.5 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         149.6   144.0  0.00186          0.00232   143.5   136.5
              C:050    1                                   3718
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.05258  0.06345   376.0   185.0
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.05528 -0.06709  -241.0   -39.0
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                           0.00000 -0.00187    64.8    70.4
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                           0.02046 -0.00300     0.0     9.0
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                           0.01546 -0.00148   -22.1   -17.6
926  -3009.1 L:60208 EDINA  7 115 60263 EDEN PR7 115 1        -338.2  -318.0 -0.00672         -0.00290  -288.5  -279.8
              C:700    2                                   3741
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.15570  0.04835   323.7   178.2
                Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                           0.07131  0.05191     9.8  -146.4
927  -3009.1 L:60208 EDINA  7 115 60263 EDEN PR7 115 1        -338.2  -318.0 -0.00672         -0.00290  -288.5  -279.8
              C:IVH-BLL/RRK3                               3646
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.15570  0.04835   323.7   178.2
                Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                           0.07131  0.05191     9.8  -146.4
928  -3002.7 L:60749 DGLAS C869.0 60750 OSAKIS 869.0 1          40.4    37.0  0.00115          0.00033    26.7    25.7
              C:60356 PAYNES 4 230 63050 WILLMAR4 230 C1   1366
                Open 60356 PAYNES 4 230 63050 WILLMAR4 230 C1                         -0.07871 -0.01032  -174.0  -143.0
929  -3002.7 L:60749 DGLAS C869.0 60750 OSAKIS 869.0 1          40.4    37.0  0.00115          0.00033    26.7    25.7
              C:60156 PYNSVIL7 115 60356 PAYNES 4 230 C1   1069
                Open 60156 PYNSVIL7 115 60356 PAYNES 4 230 C1                         -0.07871 -0.01032  -174.0  -143.0
930  -3001.4 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          16.8    13.7  0.00105          0.00090    14.0    11.4
              C:009   4                                    3701
                Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                          -0.00074  0.00781   476.3   452.8
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                Open 60202 COON CK3 345 60272 MPLEGV23 345 1                          -0.00396  0.00000     4.2     4.2
                Open 60202 COON CK3 345 63030 DICKNSN3 345 1                          -0.00896 -0.01744  -365.9  -313.6
                Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                          -0.00029 -0.00157   390.0   394.7
                Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                          -0.00368  0.00000     0.2     0.2
                Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1     NA
931  -2998.4 L:60264 LOON LK7 115 61976 LOON LK869.0 1          89.8    75.0  0.00492          0.00538    79.0    62.9
             C:61948 BYRON  5 161 61950 BYRON  3 345 1    1697
                Open 61948 BYRON  5 161 61950 BYRON  3 345 1                          -0.05551  0.00828  -193.4  -218.2
932  -2992.3 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -54.7   -48.0 -0.00225         -0.00216   -51.9   -45.5
             C:705       1                                3742
                Open 60192 BLUE LK3 345 60233 PARKERS3 345 1                          -0.00354  0.01268   140.3   102.3
                Open 60192 BLUE LK3 345 60262 EDEN PR3 345 1                          -0.00367  0.01321   562.3   522.8
                Open 60262 EDEN PR3 345 60263 EDEN PR7 115 1                          -0.00069  0.00057   342.4   340.7
933  -2947.4 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -54.5   -48.0 -0.00220         -0.00216   -51.9   -45.6
             C:60342 WHAST  7 115 62258 WHASTNG869.0 1    3032
                Open 60342 WHAST  7 115 62258 WHASTNG869.0 1                          -0.05012  0.00078    50.6    48.3
934  -2917.0 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -54.6   -48.0 -0.00225         -0.00216   -51.9   -45.6
             C:BLL-EDP/PKL3                                   3640
                Open 60192 BLUE LK3 345 60262 EDEN PR3 345 1                          -0.00378  0.01321   562.3   523.8
                Open 60192 BLUE LK3 345 60233 PARKERS3 345 1                          -0.00361  0.01268   140.3   103.3
935  -2905.6*L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -20.1   -17.3 -0.00095         -0.00090   -25.8   -23.2
             C:SHC-CNC/ECK3                                   3634
                Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                           0.00316  0.00781   476.3   453.6
                Open 60114 ELM CRK3 345 60151 MNTCELO3 345 1                          -0.00732  0.01067  -575.5  -606.5
936  -2900.9 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -16.3   -13.7 -0.00091         -0.00090   -18.3   -15.7
             C:009   1                                        3699
                Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                           0.00222  0.00781   476.3   453.6
                Open 60202 COON CK3 345 60272 MPLEGV23 345 1                           0.00283  0.00000     4.2     4.2
                Open 60151 MNTCELO3 345 60160 SHERCO 3 345 1                          -0.00202  0.01529  -450.2  -494.5
                Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                          -0.00015 -0.00157   390.0   394.5
                Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                           0.00298  0.00000     0.2     0.2
                Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1     NA
937  -2897.2 L:63219 GRANTCO7 115 66555 MORRIS 7 115 1        -113.4   -96.0 -0.00599         -0.00370   -71.9   -61.1
             C:63329 WAHPETN4 230 63331 FERGSFL4 230 1    2194
                Open 63329 WAHPETN4 230 63331 FERGSFL4 230 1                          -0.21021  0.01092   197.4   165.8
938  -2887.9 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -54.2   -48.0 -0.00216         -0.00216   -51.9   -45.7
             C:60014 BLK D74G18.0 60200 BLK DG27 115 1    2907
                Open 60014 BLK D74G18.0 60200 BLK DG27 115 1                           0.01334  0.00000  -171.7  -171.7
939  -2887.0 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -54.8   -48.0 -0.00234         -0.00216   -51.9   -45.7
             C:60110 WILMART7 115 60194 CARVRCO7 115 1     964
                Open 60110 WILMART7 115 60194 CARVRCO7 115 1                          -0.02066  0.00886   136.3   110.8
940  -2878.5 L:34384 MCARMOR869.0 34396 EMERY N869.0 1         -53.6   -51.0 -0.00090         -0.00199   -43.9   -38.2
             C:34380 LMCK E 869.0 34390 MCNWCSS869.0 1     535
                Open 34380 LMCK E 869.0 34390 MCNWCSS869.0 1                          -0.33663 -0.00326    28.8    38.1
941  -2867.3 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -54.1   -48.0 -0.00214         -0.00216   -58.1   -51.9
             C:60107 W FARIB7 115 60792 WFARBLT869.0 1     953
                Open 60107 W FARIB7 115 60792 WFARBLT869.0 1                           0.09961  0.00020    40.1    39.6
942  -2867.1 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          16.0    13.7  0.00080          0.00090    14.0    11.5
             C:62100 BIG LAK869.0 62142 REMMLTP869.0 1    1733
                Open 62100 BIG LAK869.0 62142 REMMLTP869.0 1                           0.13540 -0.00074    14.3    16.4
943  -2847.3 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          16.3    13.7  0.00090          0.00090    14.0    11.5
             C:60005 MNTCE31G22.0 60151 MNTCELO3 345 1    2898
                Open 60005 MNTCE31G22.0 60151 MNTCELO3 345 1                          -0.00375  0.00000  -588.5  -588.5
944  -2842.2 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          16.1    13.7  0.00086          0.00090    14.0    11.5
             C:62122 WESTEND869.0 62125 BECKER 869.0 1    1764
                Open 62122 WESTEND869.0 62125 BECKER 869.0 1                           0.15187 -0.00024    13.8    14.5
945  -2830.6 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          17.1    13.7  0.00120          0.00090    14.0    11.5
             C:60189 BLK DOG4 230 60190 BLK DOG7 115 C1   1120
                Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                          0.02300  0.01298   132.0    95.2
946  -2830.6 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          17.1    13.7  0.00120          0.00090    14.0    11.5
             C:810   C1                                       3770
                Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                          -0.02300 -0.01298  -132.0   -95.2
                Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                         -0.00055  0.00000    -0.0    -0.0
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947  -2830.6 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          17.1    13.7  0.00120          0.00090    14.0    11.5
             C:60189 BLK DOG4 230 62980 MCLEOD 4 230 1    1121
               Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                          -0.02300 -0.01298  -132.0   -95.2
948  -2823.6 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -238.0  -200.0 -0.01345         -0.03224  -253.3  -162.3
             C:63713 OSGOOD 5 161 66563 SPENCER5 161 1    3463
               Open 63713 OSGOOD 5 161 66563 SPENCER5 161 1                          -0.13111 -0.14330  -116.8   287.8
949  -2819.1 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -70.8   -66.0 -0.00169         -0.00166   -66.5   -61.8
             C:60905 FRMNGTN869.0 62259 LKMARN 869.0 1    3209
               Open 60905 FRMNGTN869.0 62259 LKMARN 869.0 1                           0.12033 -0.00024   -35.3   -34.6
950  -2815.6 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          44.3    36.0  0.00296          0.00284    37.3    29.4
             C:34231 MT LAKE869.0 34281 MTLAKET869.0 1     383
               Open 34231 MT LAKE869.0 34281 MTLAKET869.0 1                           0.40950  0.00029    17.0    16.2
951  -2799.3 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -290.2  -200.0 -0.03224         -0.03224  -253.3  -163.0
             C:60002 SHERC33G26.0 60160 SHERCO 3 345 1    2895
               Open 60002 SHERC33G26.0 60160 SHERCO 3 345 1                           0.04257  0.00000  -868.0  -868.0
953  -2784.4 L:62427 WILLMAR869.0 62429 PNNCKTP869.0 1         -26.7   -24.3 -0.00085         -0.00071   -13.8   -11.9
             C:500                                        3721
               Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                           0.01399 -0.01028  -223.5  -194.9
               Open 62427 WILLMAR869.0 63050 WILLMAR4 230 1                           0.20642  0.00004   -47.0   -47.1
954  -2772.9 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -53.8   -48.0 -0.00209         -0.00216   -51.9   -46.0
             C:60817 BURNSID869.0 62387 SPRNGCK869.0 1    3168
               Open 60817 BURNSID869.0 62387 SPRNGCK869.0 1                           0.06216  0.00110   -29.8   -32.9
955  -2762.7 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -53.9   -48.0 -0.00214         -0.00216   -51.9   -46.0
             C:60218 INVRHLS7 115 60223 KOCHREF7 115 1    1200
               Open 60218 INVRHLS7 115 60223 KOCHREF7 115 1                          -0.00947 -0.00190   208.2   213.5
956  -2758.0 L:62935 MAPLELK869.0 63024 MAPLE 1G69.0 1          26.7    24.3  0.00088          0.00099    14.0    11.3
             C:62122 WESTEND869.0 62138 BRGGLKS869.0 1    1765
               Open 62122 WESTEND869.0 62138 BRGGLKS869.0 1                          -0.43700  0.00024   -29.0   -29.7
957  -2757.1 L:62944 GOOSETP869.0 63024 MAPLE 1G69.0 1         -26.7   -24.3 -0.00088         -0.00099   -14.0   -11.3
             C:62122 WESTEND869.0 62138 BRGGLKS869.0 1    1765
               Open 62122 WESTEND869.0 62138 BRGGLKS869.0 1                           0.43700  0.00024   -29.0   -29.7
958  -2748.5 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -51.5   -47.0 -0.00164         -0.00211   -72.7   -66.9
             C:60790 FAIRPRK869.0 60791 FARIBLT869.0 1    1462
               Open 60790 FAIRPRK869.0 60791 FARIBLT869.0 1                          -0.94265 -0.00050   -22.5   -21.1
959  -2743.5 L:60684 YELWMED869.0 60903 LYON CO869.0 1         -52.0   -47.0 -0.00181         -0.00188   -35.5   -30.3
             C:  6001 YANKEE 7 115 66337 WHITE2 7 115 1       2
               Open  6001 YANKEE 7 115 66337 WHITE2 7 115 1                          -0.05232 -0.00116   315.3   318.5
961  -2732.8 L:60170 MARSHAL7 115 60373 SOUTH E7 115 1         139.8   127.9  0.00437          0.00110    44.3    41.3
             C:60170 MARSHAL7 115 60371 ERIE RD7 115 1    1086
               Open 60170 MARSHAL7 115 60371 ERIE RD7 115 1                           0.89802  0.00364   106.4    96.4
962  -2720.8 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -311.7  -200.0 -0.04104         -0.03224  -253.3  -165.6
             C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
               Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                           0.06302 -0.13974  -926.4  -546.2
963  -2717.2 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          45.0    36.0  0.00331          0.00284    37.3    29.6
             C:34280 TRUMANT869.0 61934 RUTLAND 69.0 1     450
               Open 34280 TRUMANT869.0 61934 RUTLAND 69.0 1                          -0.50244 -0.00093   -15.2   -12.7
964  -2703.1 L:63195 BIGSTONY 230 63214 BIGSTON7 115 1         245.4   233.0  0.00460          0.00278   187.9   180.4
             C:63314 BIGSTON4 230 63325 BROWNSV4 230 1    2189
               Open 63314 BIGSTON4 230 63325 BROWNSV4 230 1                           0.30006  0.00605   191.8   175.5
965  -2694.9 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -54.2   -48.0 -0.00229         -0.00216   -51.9   -46.1
             C:61906 MAPLE LF 161 61948 BYRON  5 161 1    3374
               Open 61906 MAPLE LF 161 61948 BYRON  5 161 1                           0.01144 -0.01198  -196.1  -163.8
966  -2694.8 L:63195 BIGSTONY 230 63314 BIGSTON4 230 1        -245.4  -233.0 -0.00460         -0.00278  -187.8  -180.3
             C:63314 BIGSTON4 230 63325 BROWNSV4 230 1    2189
               Open 63314 BIGSTON4 230 63325 BROWNSV4 230 1                          -0.30006  0.00605   191.8   175.5
968  -2660.7 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -316.0  -200.0 -0.04358         -0.03224  -253.3  -167.5
             C:34016 EMERY  5 161 64252 FLOYD  5 161 1    2722
               Open 34016 EMERY  5 161 64252 FLOYD  5 161 1                          -0.33290  0.03409   188.3    97.6
969  -2653.3 L:60794 NRSTRND869.0 62389 KENYON 869.0 1          41.0    37.0  0.00152          0.00161    27.2    22.9
             C:SPC-PRI/CTF5                               3685
               Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                           0.12792 -0.00258   145.8   152.6
               Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                           0.07762  0.00307   -62.4   -70.5
970  -2640.9 L:60684 YELWMED869.0 60903 LYON CO869.0 1         -53.4   -47.0 -0.00244         -0.00188   -35.5   -30.5
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            C:60170 MARSHAL7 115 60171 LYON CO7 115 1    1085
              Open 60170 MARSHAL7 115 60171 LYON CO7 115 1                          0.11922 -0.00474  -150.7  -138.2
971  -2627.9 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -16.1   -13.7 -0.00090         -0.00090   -18.3   -15.9
            C:62932 GOOSELK869.0 62944 GOOSETP869.0 1    2005
              Open 62932 GOOSELK869.0 62944 GOOSETP869.0 1                          0.23533  0.00000     9.4     9.4
972  -2627.7 L:60794 NRSTRND869.0 62389 KENYON 869.0 1          41.0    37.0  0.00152          0.00161    27.2    23.0
            C:740    1                                   3757
              Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                          0.07762  0.00307   -62.4   -70.4
              Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                          0.12792 -0.00258   145.8   152.5
              Open 60103 CANNFLS5 161 60104 CANNFLS7 115 1                         -0.05199  0.00000     0.7     0.7
973  -2626.4 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -24.0   -19.3 -0.00179         -0.00094   -16.3   -13.8
            C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
              Open 60108 WILMART3 345 60192 BLUE LK3 345 1                         -0.00752  0.11319  1025.6   728.3
974  -2623.4 L:60264 LOON LK7 115 61976 LOON LK869.0 1           97.9    75.0  0.00872          0.00538    79.0    64.9
            C:60107 W FARIB7 115 61952 S FARIB5 161 1     955
              Open 60107 W FARIB7 115 61952 S FARIB5 161 1                          0.22944  0.01456    82.2    44.0
975  -2605.2 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -70.6   -66.0 -0.00175         -0.00166   -66.5   -62.2
            C:700    2                                   3741
              Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.01278  0.04835   323.7   197.7
              Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                          0.01020  0.05191     9.8  -125.4
976  -2605.2 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -70.6   -66.0 -0.00175         -0.00166   -66.5   -62.2
            C:IVH-BLL/RRK3                               3646
              Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.01278  0.04835   323.7   197.7
              Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                          0.01020  0.05191     9.8  -125.4
977  -2601.9 L:60264 LOON LK7 115 61976 LOON LK869.0 1           97.7    75.0  0.00872          0.00538    79.0    65.0
            C:61952 S FARIB5 161 61964 OWATNNA5 161 1    1699
              Open 61952 S FARIB5 161 61964 OWATNNA5 161 1                          0.22944  0.01456    81.4    43.5
978  -2592.4 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -283.6  -200.0 -0.03224         -0.03224  -253.3  -169.7
            C:60001 SHERC32G24.0 60160 SHERCO 3 345 1    2894
              Open 60001 SHERC32G24.0 60160 SHERCO 3 345 1                          0.04257  0.00000  -711.4  -711.4
979  -2591.6 L:60701 MADELVL869.0 60816 BUTERTP869.0 1           72.5    36.0  0.01407          0.00606    19.4     3.7
            C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
              Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                         -0.05727 -0.13974  -926.4  -564.2
980  -2590.4 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -53.4   -48.0 -0.00209         -0.00216   -51.9   -46.4
            C:760                                        3762
              Open 60105 PR ISLD3 345 60236 REDROCK3 345 1                         -0.00188 -0.01690   390.7   434.5
              Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                         -0.00188 -0.01722   398.2   442.8
981  -2590.4 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -53.4   -48.0 -0.00209         -0.00216   -51.9   -46.4
            C:PRI-RRK/RRK3                               3647
              Open 60105 PR ISLD3 345 60236 REDROCK3 345 1                         -0.00188 -0.01690   390.7   434.5
              Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                         -0.00188 -0.01722   398.2   442.8
982  -2590.3 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -283.5  -200.0 -0.03224         -0.03224  -253.3  -169.8
            C:60000 SHERC31G24.0 60160 SHERCO 3 345 1    2893
              Open 60000 SHERC31G24.0 60160 SHERCO 3 345 1                          0.04257  0.00000  -709.8  -709.8
983  -2584.1 L:60684 YELWMED869.0 60903 LYON CO869.0 1         -51.7   -47.0 -0.00181         -0.00188   -35.5   -30.6
            C:66537 WHITE  3 345 66337 WHITE2 7 115 P2   2311
              Open 66537 WHITE  3 345 66337 WHITE2 7 115 P2                         0.05232  0.00116  -309.8  -312.8
984  -2581.5 L:60938 FTRIDGL869.0 62077 SCHLTP 869.0 1           41.9    37.0  0.00190          0.00152    33.3    29.4
            C:60826 TRAVRSE869.0 62350 TRAVERS869.0 1    3177
              Open 60826 TRAVRSE869.0 62350 TRAVERS869.0 1                          0.15259  0.00249    56.2    49.8
985  -2574.8 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1           16.0    13.7  0.00088          0.00090    14.0    11.7
            C:62134 ELKR14S869.0 63043 ELK RIV4 230 2    1782
              Open 62134 ELKR14S869.0 63043 ELK RIV4 230 2                         -0.02479  0.00051   -77.8   -79.1
986  -2547.1 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -53.7   -48.0 -0.00226         -0.00216   -51.9   -46.4
            C:715       4                                3751
              Open 60243 SCOTTAP7 115 62666 GLNDALE7 115 1                         -0.02416  0.00356    31.4    22.4
              Open 62666 GLNDALE7 115 62672 GLNDALE869.0 1                         -0.02559  0.00008    32.9    32.7
              Open 60243 SCOTTAP7 115 60244 SCOTTCO7 115 1                         -0.00714  0.00158    27.4    23.4
              Open 60194 CARVRCO7 115 60243 SCOTTAP7 115 1                         -0.00232  0.00000     1.2     1.2
              Open 60194 CARVRCO7 115 60931 CARVRCO869.0 1                         -0.00028 -0.00021    30.7    31.2
987  -2544.0 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         154.7   144.0  0.00421          0.00232   143.5   137.6
            C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
              Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.02983  0.06345   376.0   214.6
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 988  -2533.3 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -53.4   -48.0 -0.00212         -0.00216   -51.9   -46.5
              C:60218 INVRHLS7 115 60220 INVRGRV7 115 1    1199
                Open 60218 INVRHLS7 115 60220 INVRGRV7 115 1                          -0.01098 -0.00349   130.1   138.9
 989  -2532.9 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -53.5   -48.0 -0.00216         -0.00216   -51.9   -46.5
              C:60218 INVRHLS7 115 61478 INV TR1Y 115 1    1202
                Open 60218 INVRHLS7 115 61478 INV TR1Y 115 1                           0.01326  0.00000  -115.0  -115.0
 990  -2527.5 L:60794 NRSTRND869.0 62389 KENYON 869.0 1          46.4    37.0  0.00373          0.00161    27.2    23.2
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                           0.01873  0.11319  1025.6   739.5
 991  -2525.1 L:60756 ALBANY 869.0 62838 FARMING869.0 1         -29.4   -27.6 -0.00070         -0.00055   -24.8   -23.4
              C:63222 ALEXAND7 115 67452 ALEXSS   115 1    2106
                Open 63222 ALEXAND7 115 67452 ALEXSS   115 1                           0.05201 -0.00296   -88.0   -80.5
 992  -2523.0 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -53.4   -48.0 -0.00216         -0.00216   -51.9   -46.5
              C:60008 RIVRS78G22.0 60240 RIVRSID7 115 1    2901
                Open 60008 RIVRS78G22.0 60240 RIVRSID7 115 1                           0.00660  0.00000  -228.0  -228.0
 993  -2522.7 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -53.4   -48.0 -0.00216         -0.00216   -51.9   -46.5
              C:60013 BLK D73G13.8 60200 BLK DG27 115 1    2906
                Open 60013 BLK D73G13.8 60200 BLK DG27 115 1                           0.01334  0.00000  -112.6  -112.6
 994  -2497.7 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -280.5  -200.0 -0.03224         -0.03224  -253.3  -172.8
              C:60003 PR IS31G20.0 60105 PR ISLD3 345 1    2896
                Open 60003 PR IS31G20.0 60105 PR ISLD3 345 1                           0.05125  0.00000  -531.4  -531.4
 995  -2480.7 L:60742 PANTHER869.0 63054 PANTHER4 230 1         -72.1   -70.0 -0.00085          0.00014   -45.6   -45.9
              C:60677 HENRYTR869.0 60770 BIRCH R869.0 C1   3061
                Open 60677 HENRYTR869.0 60770 BIRCH R869.0 C1                          0.83649 -0.00118   -31.7   -28.8
 996  -2477.5 L:60716 STJ EAS869.0 60709 STJMSMU869.0 1         -57.5   -36.0 -0.00870         -0.00284   -18.7   -11.7
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                           0.04191 -0.13974  -926.4  -580.2
 997  -2476.4 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          49.5    36.0  0.00547          0.00284    37.3    30.3
              C:34008 FOX LK 5 161 61932 RUTLAND5 161 1      28
                Open 34008 FOX LK 5 161 61932 RUTLAND5 161 1                           0.05459  0.04814   223.4   104.1
 998  -2476.2 L:60808 EAGLELK869.0 62347 EAGLELK869.0 1         -88.4   -72.0 -0.00662         -0.00322   -57.6   -49.6
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          -0.03004  0.11319  1025.6   745.3
 999  -2475.6 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -279.8  -200.0 -0.03224         -0.03224  -253.3  -173.5
              C:60004 PR IS32G20.0 60105 PR ISLD3 345 1    2897
                Open 60004 PR IS32G20.0 60105 PR ISLD3 345 1                           0.05125  0.00000  -517.4  -517.4
1000  -2473.9 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -256.3  -200.0 -0.02276         -0.03224  -253.3  -173.5
              C:34018 HAZLTON3 345 34093 ARNOLD 3 345 1      55
                Open 34018 HAZLTON3 345 34093 ARNOLD 3 345 1                           0.05228  0.18131   -57.7  -506.3
1001  -2463.8 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          16.1    13.7  0.00098          0.00090    14.0    11.8
              C:60652 CROWRV 869.0 62931 DELANO 869.0 1    1381
                Open 60652 CROWRV 869.0 62931 DELANO 869.0 1                           0.07959  0.00100    25.8    23.4
1002  -2461.8 L:60156 PYNSVIL7 115 60760 PAYNES 869.0 P1          54.0    47.0  0.00286          0.00115    40.4    37.6
              C:60156 PYNSVIL7 115 60162 WAKEFLD7 115 C1   1068
                Open 60156 PYNSVIL7 115 60162 WAKEFLD7 115 C1                          0.21295  0.00802    64.0    44.2
1003  -2461.8 L:60156 PYNSVIL7 115 60760 PAYNES 869.0 P2          54.0    47.0  0.00286          0.00115    40.4    37.6
              C:60156 PYNSVIL7 115 60162 WAKEFLD7 115 C1   1068
                Open 60156 PYNSVIL7 115 60162 WAKEFLD7 115 C1                          0.21295  0.00802    64.0    44.2
1004  -2461.6 L:60119 LKYNKTN7 115 60279 BUFFRID7 115 1        -302.6  -292.0 -0.00430         -0.00488  -149.2  -137.2
              C:66537 WHITE  3 345 66337 WHITE2 7 115 P2   2311
                Open 66537 WHITE  3 345 66337 WHITE2 7 115 P2                          0.49521  0.00116  -309.8  -312.6
1005  -2458.9 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -70.0   -66.0 -0.00162         -0.00166   -66.5   -62.4
              C:60217 INVRHLS3 345 60218 INVRHLS7 115 1    1197
                Open 60217 INVRHLS3 345 60218 INVRHLS7 115 1                          -0.01110 -0.00356   312.4   321.1
1006  -2453.6 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -67.4   -58.0 -0.00384         -0.00273   -56.6   -49.9
              C:34047 ANTA TP5 161 34048 ANITA  5 161 1     107
                Open 34047 ANTA TP5 161 34048 ANITA  5 161 1                          -0.15412  0.00719    70.1    52.4
1007  -2448.7 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -53.4   -48.0 -0.00219         -0.00216   -51.9   -46.7
              C:022       1                                3706
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          -0.00073  0.02473   273.5   212.9
                Open 60221 KOLMNLK3 345 60251 TERMINL3 345 1                          -0.00096 -0.02272   209.4   265.0
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                          -0.00169  0.01927   549.2   502.1
                Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                          -0.00041  0.00023   225.9   225.3
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                Open 60251 TERMINL3 345 61492 TERMID1Y 345 1     NA
                Open 60252 TERMINL7 115 61492 TERMID1Y 345 1                          -0.00000  0.00172  -377.2  -381.4
                Open 61187 TERTER1934.5 61492 TERMID1Y 345 1     NA
                Open 60251 TERMINL3 345 61491 TERMID2Y 345 1     NA
                Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                           0.00712  0.00000     0.7     0.7
                Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
1008  -2444.6 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -53.4   -48.0 -0.00222         -0.00216   -51.9   -46.7
              C:60826 TRAVRSE869.0 62350 TRAVERS869.0 1    3177
                Open 60826 TRAVRSE869.0 62350 TRAVERS869.0 1                          -0.02661  0.00249    56.2    50.1
1009  -2444.5 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          43.2    36.0  0.00296          0.00284    37.3    30.4
              C:34230 COMFREY869.0 34281 MTLAKET869.0 1     381
                Open 34230 COMFREY869.0 34281 MTLAKET869.0 1                          -0.40950 -0.00029   -14.4   -13.7
1010  -2444.0 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -53.6   -48.0 -0.00228         -0.00216   -51.9   -46.7
              C:62980 MCLEOD 4 230 63054 PANTHER4 230 1    3396
                Open 62980 MCLEOD 4 230 63054 PANTHER4 230 1                           0.00732 -0.01700  -223.7  -182.1
1011  -2440.0 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -53.0   -48.0 -0.00205         -0.00216   -51.9   -46.7
              C:60982 ALMA   869.0 68874 ALMA 8  69.0 1    3254
                Open 60982 ALMA   869.0 68874 ALMA 8  69.0 1                           0.02975  0.00359   -35.8   -44.5
1012  -2436.1 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -50.4   -48.0 -0.00100         -0.00216   -58.1   -52.9
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                          -0.00831 -0.13974  -926.4  -586.0
1013  -2434.8 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -278.5  -200.0 -0.03224         -0.03224  -253.3  -174.8
              C:60006 KING 31G20.0 60186 AS KING3 345 1    2899
                Open 60006 KING 31G20.0 60186 AS KING3 345 1                           0.04371  0.00000  -576.7  -576.7
1014  -2430.9 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -278.4  -200.0 -0.03224         -0.03224  -253.3  -174.9
              C:60005 MNTCE31G22.0 60151 MNTCELO3 345 1    2898
                Open 60005 MNTCE31G22.0 60151 MNTCELO3 345 1                           0.04261  0.00000  -588.5  -588.5
1015  -2405.1 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -53.2   -48.0 -0.00216         -0.00216   -51.9   -46.8
              C:60010 HIBRD76G18.0 60214 HIBRDGE7 115 1    2903
                Open 60010 HIBRD76G18.0 60214 HIBRDGE7 115 1                           0.00742  0.00000  -168.4  -168.4
1016  -2373.2 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -21.3   -19.3 -0.00085         -0.00094   -16.3   -14.1
              C:34300 MONTGMY869.0 34301 NEWPRAG869.0 1     475
                Open 34300 MONTGMY869.0 34301 NEWPRAG869.0 1                          -0.27659 -0.00032    18.2    18.9
1017  -2372.3 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -53.8   -48.0 -0.00243         -0.00216   -51.9   -46.8
              C:60192 BLUE LK3 345 60217 INVRHLS3 345 1    1126
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.00564  0.04835   323.7   209.0
1018  -2367.0 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          15.7    13.7  0.00083          0.00090    14.0    11.9
              C:660                                        3729
                Open 63043 ELK RIV4 230 63046 BUNKER 4 230 1                          -0.01240  0.00471     6.2    -4.9
                Open 62134 ELKR14S869.0 63043 ELK RIV4 230 2                          -0.02169  0.00051   -77.8   -79.0
1019  -2355.5 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -53.4   -48.0 -0.00227         -0.00216   -51.9   -46.9
              C:795                                        3768
                Open 60150 MNVLTAP4 230 66550 GRANITF4 230 1                           0.00667 -0.01397  -262.1  -229.2
                Open 60148 MINVALY7 115 60149 MINVALT4 230 C1                         -0.00723  0.00290    16.5     9.6
                Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                           0.00674  0.00000     0.0     0.0
                Open 60149 MINVALT4 230 60150 MNVLTAP4 230 1     NA
                Open 60742 PANTHER869.0 63054 PANTHER4 230 1                          -0.00995  0.00014   -45.6   -45.9
1020  -2353.7 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -52.7   -48.0 -0.00200         -0.00216   -58.1   -53.0
              C:60791 FARIBLT869.0 60792 WFARBLT869.0 1    1464
                Open 60791 FARIBLT869.0 60792 WFARBLT869.0 1                          -0.07455 -0.00211   -72.7   -67.7
1021  -2352.3 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -53.0   -48.0 -0.00212         -0.00216   -51.9   -46.9
              C:60220 INVRGRV7 115 62230 PILOTKB7 115 1    2976
                Open 60220 INVRGRV7 115 62230 PILOTKB7 115 1                          -0.01098 -0.00349    95.2   103.4
1022  -2341.5 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -52.7   -48.0 -0.00201         -0.00216   -58.1   -53.1
              C:60787 NOFIELD869.0 62256 CSTL RK869.0 1    3140
                Open 60787 NOFIELD869.0 62256 CSTL RK869.0 1                           0.47993  0.00031    11.3    10.6
1023  -2339.4 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -53.0   -48.0 -0.00216         -0.00216   -51.9   -46.9
              C:60788 VALLYTP869.0 62870 VLLYGRV869.0 1    3141
                Open 60788 VALLYTP869.0 62870 VLLYGRV869.0 1                          -0.40657  0.00000     2.7     2.7
1024  -2339.2 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -53.0   -48.0 -0.00214         -0.00216   -51.9   -46.9
              C:715       3                                3750
                Open 60200 BLK DG27 115 62666 GLNDALE7 115 1                          -0.00581 -0.00339    34.9    42.8
                Open 62666 GLNDALE7 115 62672 GLNDALE869.0 2                          -0.02623  0.00008    32.9    32.7
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1025  -2323.2 L:34384 MCARMOR869.0 34396 EMERY N869.0 1         -56.9   -51.0 -0.00256         -0.00199   -43.9   -39.3
              C:34393 MCHW106869.0 34394 MC 5DEL869.0 1     549
                Open 34393 MCHW106869.0 34394 MC 5DEL869.0 1                          -0.44492  0.00127    29.3    26.4
1026  -2312.5 L:63189 MAPLER1Y 345 66792 MAPLE R3 345 1        -346.4  -336.0 -0.00451         -0.00236  -181.0  -175.6
              C:63190 MAPLER2Y 345 66754 MAPLE R4 230 1    2068
                Open 63190 MAPLER2Y 345 66754 MAPLE R4 230 1                          -0.91384  0.00236   181.0   175.5
1027  -2312.4 L:63189 MAPLER1Y 345 66792 MAPLE R3 345 1        -346.4  -336.0 -0.00451         -0.00236  -181.0  -175.6
              C:MAPLER XFR2                                3794
                Open 63190 MAPLER2Y 345 63360 MAPLER2913.8 1     NA
                Open 63190 MAPLER2Y 345 66754 MAPLE R4 230 1                          -0.91384  0.00236   181.0   175.5
                Open 63190 MAPLER2Y 345 66792 MAPLE R3 345 1                          -0.75624  0.00000    -0.0    -0.0
1028  -2312.4 L:63189 MAPLER1Y 345 66792 MAPLE R3 345 1        -346.4  -336.0 -0.00451         -0.00236  -181.0  -175.6
              C:63190 MAPLER2Y 345 66792 MAPLE R3 345 1    2069
                Open 63190 MAPLER2Y 345 66792 MAPLE R3 345 1                           0.91384 -0.00236  -181.0  -175.5
1029  -2311.2 L:63190 MAPLER2Y 345 66754 MAPLE R4 230 1         346.4   336.0  0.00451          0.00236   181.0   175.5
              C:63189 MAPLER1Y 345 66792 MAPLE R3 345 1    2067
                Open 63189 MAPLER1Y 345 66792 MAPLE R3 345 1                          -0.91384 -0.00236  -181.0  -175.6
1030  -2311.1 L:63190 MAPLER2Y 345 66792 MAPLE R3 345 1        -346.4  -336.0 -0.00451         -0.00236  -181.0  -175.5
              C:63189 MAPLER1Y 345 66792 MAPLE R3 345 1    2067
                Open 63189 MAPLER1Y 345 66792 MAPLE R3 345 1                           0.91384 -0.00236  -181.0  -175.6
1031  -2306.5 L:63190 MAPLER2Y 345 66754 MAPLE R4 230 1         346.4   336.0  0.00451          0.00236   181.0   175.5
              C:MAPLER XFR1                                3793
                Open 63189 MAPLER1Y 345 63359 MAPLER1913.8 1     NA
                Open 63189 MAPLER1Y 345 66754 MAPLE R4 230 1                           0.91384  0.00236   180.9   175.5
                Open 63189 MAPLER1Y 345 66792 MAPLE R3 345 1                           0.75624  0.00000     0.1     0.1
1032  -2306.4 L:63190 MAPLER2Y 345 66792 MAPLE R3 345 1        -346.4  -336.0 -0.00451         -0.00236  -181.0  -175.5
              C:MAPLER XFR1                                3793
                Open 63189 MAPLER1Y 345 63359 MAPLER1913.8 1     NA
                Open 63189 MAPLER1Y 345 66754 MAPLE R4 230 1                          -0.91384  0.00236   180.9   175.5
                Open 63189 MAPLER1Y 345 66792 MAPLE R3 345 1                          -0.75624  0.00000     0.1     0.1
1033  -2301.4 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -53.0   -48.0 -0.00216         -0.00216   -51.9   -47.0
              C:60007 RIVRS76G14.0 60240 RIVRSID7 115 1    2900
                Open 60007 RIVRS76G14.0 60240 RIVRSID7 115 1                           0.00660  0.00000  -155.5  -155.5
1034  -2300.4 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          15.7    13.7  0.00088          0.00090    14.0    12.0
              C:670     2                                  3732
                Open 60160 SHERCO 3 345 63031 BUNKER 3 345 1                           0.01206  0.00766   498.2   480.6
                Open 60202 COON CK3 345 63031 BUNKER 3 345 1                           0.01423 -0.00793  -300.1  -281.8
                Open 63031 BUNKER 3 345 63046 BUNKER 4 230 1                          -0.01613  0.00000     4.4     4.4
1035  -2296.1 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -53.1   -48.0 -0.00223         -0.00216   -51.9   -47.0
              C:60150 MNVLTAP4 230 63054 PANTHER4 230 1    2955
                Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                          -0.00423  0.01686   278.5   239.8
1036  -2291.0 L:60826 TRAVRSE869.0 61974 ST PETER69.0 1          52.1    48.0  0.00178         -0.00007    12.5    12.6
              C:60650 WILMART869.0 60831 EASTWD2869.0 1    1377
                Open 60650 WILMART869.0 60831 EASTWD2869.0 1                           0.57447  0.00322    68.9    61.6
1037  -2290.4 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -52.9   -48.0 -0.00216         -0.00216   -51.9   -47.0
              C:022         5                              3709
                Open 60221 KOLMNLK3 345 60251 TERMINL3 345 1                          -0.00115 -0.02272   209.4   261.4
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                          -0.00140  0.01927   549.2   505.1
                Open 60251 TERMINL3 345 61492 TERMID1Y 345 1     NA
                Open 60252 TERMINL7 115 61492 TERMID1Y 345 1                          -0.00000  0.00172  -377.2  -381.1
                Open 61187 TERTER1934.5 61492 TERMID1Y 345 1     NA
                Open 60251 TERMINL3 345 61491 TERMID2Y 345 1     NA
                Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                           0.00713  0.00000     0.7     0.7
                Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
1038  -2284.4 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -69.8   -66.0 -0.00166         -0.00166   -66.5   -62.7
              C:60002 SHERC33G26.0 60160 SHERCO 3 345 1    2895
                Open 60002 SHERC33G26.0 60160 SHERCO 3 345 1                           0.00377  0.00000  -868.0  -868.0
1039  -2283.8 L:63190 MAPLER2Y 345 66754 MAPLE R4 230 1         346.3   336.0  0.00451          0.00236   181.0   175.6
              C:63189 MAPLER1Y 345 66754 MAPLE R4 230 1    2066
                Open 63189 MAPLER1Y 345 66754 MAPLE R4 230 1                           0.91384  0.00236   180.9   175.5
1040  -2283.7 L:63190 MAPLER2Y 345 66792 MAPLE R3 345 1        -346.3  -336.0 -0.00451         -0.00236  -181.0  -175.6
              C:63189 MAPLER1Y 345 66754 MAPLE R4 230 1    2066
                Open 63189 MAPLER1Y 345 66754 MAPLE R4 230 1                          -0.91384  0.00236   180.9   175.5
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1041  -2282.5 L:63189 MAPLER1Y 345 66754 MAPLE R4 230 1         346.3   336.0  0.00451          0.00236   180.9   175.5
              C:63190 MAPLER2Y 345 66754 MAPLE R4 230 1    2068
                Open 63190 MAPLER2Y 345 66754 MAPLE R4 230 1                          0.91384  0.00236   181.0   175.6
1042  -2282.4 L:63189 MAPLER1Y 345 66754 MAPLE R4 230 1         346.3   336.0  0.00451          0.00236   180.9   175.5
              C:MAPLER XFR2                                3794
                Open 63190 MAPLER2Y 345 63360 MAPLER2913.8 1     NA
                Open 63190 MAPLER2Y 345 66754 MAPLE R4 230 1                          0.91384  0.00236   181.0   175.6
                Open 63190 MAPLER2Y 345 66792 MAPLE R3 345 1                          0.75624  0.00000    -0.0    -0.0
1043  -2282.4 L:63189 MAPLER1Y 345 66754 MAPLE R4 230 1         346.3   336.0  0.00451          0.00236   180.9   175.5
              C:63190 MAPLER2Y 345 66792 MAPLE R3 345 1    2069
                Open 63190 MAPLER2Y 345 66792 MAPLE R3 345 1                         -0.91384 -0.00236  -181.0  -175.6
1044  -2279.1 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -53.0   -48.0 -0.00220         -0.00216   -51.9   -47.0
              C:022       3                                3707
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                         -0.00100  0.02473   273.5   217.1
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                         -0.00111  0.01927   549.2   505.3
                Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                         -0.00023  0.00023   225.9   225.3
                Open 60251 TERMINL3 345 61491 TERMID2Y 345 1                         -0.00039 -0.00173   381.0   384.9
                Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                          0.00684  0.00000     0.2     0.2
                Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
1045  -2277.1 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          42.7    36.0  0.00296          0.00284    37.3    30.9
              C:34230 COMFREY869.0 34240 DOTSON 869.0 1     380
                Open 34230 COMFREY869.0 34240 DOTSON 869.0 1                          0.40950  0.00029    13.2    12.5
1046  -2272.6 L:34251 MADLIAJ869.0 60701 MADELVL869.0 1          68.0    36.0  0.01407          0.00606    14.9     1.1
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                         -0.05727 -0.13974  -926.4  -608.8
1047  -2251.9 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -53.1   -48.0 -0.00226         -0.00216   -51.9   -47.1
              C:715       2                                3749
                Open 60243 SCOTTAP7 115 62666 GLNDALE7 115 1                         -0.02476  0.00356    31.4    23.4
                Open 60242 SAVAGE 7 115 62668 EGLCKTP7 115 1     NA
                Open 62666 GLNDALE7 115 62672 GLNDALE869.0 1                         -0.02556  0.00008    32.9    32.7
                Open 60243 SCOTTAP7 115 60244 SCOTTCO7 115 1                         -0.00651  0.00158    27.4    23.8
                Open 60194 CARVRCO7 115 60243 SCOTTAP7 115 1                         -0.00273  0.00000     1.2     1.2
                Open 60194 CARVRCO7 115 60931 CARVRCO869.0 1                          0.00007 -0.00021    30.7    31.1
                Open 60190 BLK DOG7 115 60242 SAVAGE 7 115 1                          0.00520 -0.00055    49.7    51.0
                Open 62668 EGLCKTP7 115 62975 SHAKOPE7 115 1     NA
                Open 60244 SCOTTCO7 115 62975 SHAKOPE7 115 1                          0.00377  0.00000    71.1    71.1
                Open 60244 SCOTTCO7 115 60890 SCOTTCO869.0 2                          0.00339 -0.00079    33.6    35.3
1048  -2251.2 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -53.1   -48.0 -0.00227         -0.00216   -51.9   -47.1
              C:60189 BLK DOG4 230 60190 BLK DOG7 115 C1   1120
                Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                        -0.00893  0.01298   132.0   102.8
1049  -2251.2 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -53.1   -48.0 -0.00227         -0.00216   -51.9   -47.1
              C:60189 BLK DOG4 230 62980 MCLEOD 4 230 1    1121
                Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                          0.00893 -0.01298  -132.0  -102.8
1050  -2251.2 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -53.1   -48.0 -0.00227         -0.00216   -51.9   -47.1
              C:810   C1                                   3770
                Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                          0.00893 -0.01298  -132.0  -102.8
                Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                         0.00931  0.00000    -0.0    -0.0
1051  -2239.9 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         149.0   144.0  0.00224          0.00232   143.5   138.3
              C:60296 SHELDNP7 115 60306 HOLCOMB7 115 1    1306
                Open 60296 SHELDNP7 115 60306 HOLCOMB7 115 1                         -0.12785  0.00062   -43.2   -44.6
1052  -2227.8 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -53.0   -48.0 -0.00226         -0.00216   -51.9   -47.1
              C:SCO-SSK/CAR7                               3678
                Open 60244 SCOTTCO7 115 62975 SHAKOPE7 115 1                         -0.00559  0.00055    21.4    20.2
                Open 60243 SCOTTAP7 115 60244 SCOTTCO7 115 1                          0.01987  0.00158    27.4    23.9
                Open 60194 CARVRCO7 115 60243 SCOTTAP7 115 1                         -0.02587  0.00514    60.0    48.6
                Open 60243 SCOTTAP7 115 62666 GLNDALE7 115 1                          0.02335  0.00000     1.2     1.2
1053  -2221.8 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -70.5   -66.0 -0.00202         -0.00166   -66.5   -62.8
              C:700    1                                   3740
                Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                          0.00479 -0.03963    90.2   178.2
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.01392  0.04835   323.7   216.3
                Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                          0.00961  0.05191     9.8  -105.5
1054  -2221.1 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          43.3    36.0  0.00331          0.00284    37.3    31.0
              C:34248 TRUMANM869.0 34280 TRUMANT869.0 1     402
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                Open 34248 TRUMANM869.0 34280 TRUMANT869.0 1                          -0.50244 -0.00093   -11.9    -9.9
1055  -2221.0 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          43.3    36.0  0.00331          0.00284    37.3    31.0
              C:34248 TRUMANM869.0 34249 TRUMAN 869.0 1     401
                Open 34248 TRUMANM869.0 34249 TRUMAN 869.0 1                           0.50244  0.00093    11.9     9.9
1056  -2214.3 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -277.2  -200.0 -0.03488         -0.03224  -253.3  -181.9
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          -0.02335  0.11319  1025.6   775.0
1057  -2189.9 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -272.1  -200.0 -0.03291         -0.03224  -253.3  -182.7
              C:34016 EMERY  5 161 34395 EMERY S869.0 1      50
                Open 34016 EMERY  5 161 34395 EMERY S869.0 1                          -0.27801  0.00244    67.6    62.3
1058  -2189.9 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -272.1  -200.0 -0.03291         -0.03224  -253.3  -182.7
              C:34016 EMERY  5 161 34396 EMERY N869.0 1      51
                Open 34016 EMERY  5 161 34396 EMERY N869.0 1                          -0.27799  0.00244    67.6    62.3
1059  -2186.9 L:60170 MARSHAL7 115 60371 ERIE RD7 115 1         140.6   127.9  0.00579          0.00364   106.4    98.4
              C:60148 MINVALY7 115 60171 LYON CO7 115 1    1049
                Open 60148 MINVALY7 115 60171 LYON CO7 115 1                          -0.32028 -0.00670  -106.8   -92.1
1060  -2172.4 L:60797 KENYNTP869.0 62389 KENYON 869.0 1         -45.1   -37.0 -0.00373         -0.00161   -25.9   -22.4
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          -0.01873  0.11319  1025.6   779.7
1061  -2159.1 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -71.5   -66.0 -0.00254         -0.00166   -66.5   -62.9
              C:60107 W FARIB7 115 61952 S FARIB5 161 1     955
                Open 60107 W FARIB7 115 61952 S FARIB5 161 1                          -0.06043  0.01456    82.2    50.8
1062  -2144.1 L:60938 FTRIDGL869.0 62077 SCHLTP 869.0 1          41.2    37.0  0.00196          0.00152    33.3    30.1
              C:60727 FARFXNU869.0 60728 FRANKLN869.0 1    3095
                Open 60727 FARFXNU869.0 60728 FRANKLN869.0 1                          -0.40947 -0.00106   -19.2   -16.9
1063  -2139.6 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -71.4   -66.0 -0.00254         -0.00166   -66.5   -63.0
              C:61952 S FARIB5 161 61964 OWATNNA5 161 1    1699
                Open 61952 S FARIB5 161 61964 OWATNNA5 161 1                          -0.06043  0.01456    81.4    50.2
1064  -2136.1 L:60719 LAFAYET869.0 62079 LAFAYTT869.0 1         -44.5   -37.0 -0.00349         -0.00152   -26.6   -23.3
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          -0.01742  0.11319  1025.6   783.8
1065  -2119.5 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -270.4  -200.0 -0.03320         -0.03224  -253.3  -185.0
              C:34393 MCHW106869.0 34395 EMERY S869.0 1     550
                Open 34393 MCHW106869.0 34395 EMERY S869.0 1                           0.33318 -0.00289   -51.3   -45.1
1066  -2108.2 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -53.9   -48.0 -0.00280         -0.00216   -51.9   -47.4
              C:BLL-PRI/IVH3                               3641
                Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                           0.00653 -0.03963    90.2   173.7
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.00786  0.04835   323.7   221.8
1067  -2091.9 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -280.8  -200.0 -0.03862         -0.03224  -253.3  -185.8
              C:34009 WINBAGO5 161 61932 RUTLAND5 161 1      32
                Open 34009 WINBAGO5 161 61932 RUTLAND5 161 1                           0.12515 -0.05102  -219.8  -113.1
1068  -2091.0 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -267.4  -200.0 -0.03224         -0.03224  -253.3  -185.9
              C:63007 PVS  52G16.0 63070 PL VLLY5 161 1    3402
                Open 63007 PVS  52G16.0 63070 PL VLLY5 161 1                           0.09128  0.00000  -154.7  -154.7
1069  -2084.2 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          42.9    36.0  0.00331          0.00284    37.3    31.4
              C:34249 TRUMAN 869.0 62799 LWSVLTP869.0 1     403
                Open 34249 TRUMAN 869.0 62799 LWSVLTP869.0 1                           0.50244  0.00093    11.0     9.1
1070  -2047.3 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          15.5    13.7  0.00090          0.00090    14.0    12.2
              C:61910 MILACA 4 230 62301 MILACA 869.0 1    1684
                Open 61910 MILACA 4 230 62301 MILACA 869.0 1                           0.01741  0.00032    86.1    85.5
1071  -2047.3 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          15.5    13.7  0.00090          0.00090    14.0    12.2
              C:61910 MILACA 4 230 63045 BENTON 4 230 1    3375
                Open 61910 MILACA 4 230 63045 BENTON 4 230 1                          -0.01741 -0.00032   -86.1   -85.5
1072  -2040.2 L:60938 FTRIDGL869.0 62077 SCHLTP 869.0 1          40.5    37.0  0.00170          0.00152    33.3    30.2
              C:60650 WILMART869.0 62336 JHNSNTP869.0 1    3043
                Open 60650 WILMART869.0 62336 JHNSNTP869.0 1                           0.07211  0.00242    98.9    94.0
1073  -2034.4 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -265.6  -200.0 -0.03224         -0.03224  -253.3  -187.7
              C:63008 PVS  53G13.8 63070 PL VLLY5 161 1    3403
                Open 63008 PVS  53G13.8 63070 PL VLLY5 161 1                           0.09128  0.00000  -134.7  -134.7
1074  -2029.4 L:60652 CROWRV 869.0 62931 DELANO 869.0 1          43.2    41.5  0.00082          0.00100    25.8    23.8
              C:62924 MEDINA 7 115 62951 MEDINA 869.0 1    1996
                Open 62924 MEDINA 7 115 62951 MEDINA 869.0 1                           0.65037 -0.00027    26.6    27.2
1075  -2029.3 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -55.7   -48.0 -0.00382         -0.00216   -51.9   -47.6
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              C:61948 BYRON  5 161 61964 OWATNNA5 161 1    1698
                Open 61948 BYRON  5 161 61964 OWATNNA5 161 1                                0.08197 -0.02026   -46.5    -5.4
1076  -2019.9 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -274.2  -200.0 -0.03675         -0.03224  -253.3  -188.2
              C:34008 FOX LK 5 161 61932 RUTLAND5 161 1      28
                Open 34008 FOX LK 5 161 61932 RUTLAND5 161 1                               -0.09382  0.04814   223.4   126.1
1077  -2015.9 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -265.0  -200.0 -0.03224         -0.03224  -253.3  -188.3
              C:60108 WILMART3 345  8001 G261-ST 19.5 1    2941
                Open 60108 WILMART3 345  8001 G261-ST 19.5 1                                0.03590  0.00000  -326.0  -326.0
1078  -2015.7 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -15.7   -13.7 -0.00098         -0.00090   -18.3   -16.5
              C:009   7                                    3704
                Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                                0.00273  0.00781   476.3   460.5
                Open 60202 COON CK3 345 60272 MPLEGV23 345 1                                0.00345  0.00000     4.2     4.2
                Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                                0.00670 -0.01571   221.8   253.4
                Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                               -0.00056 -0.00157   390.0   393.1
                Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                                0.00401  0.00000     0.2     0.2
                Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1     NA
1079  -2012.2 L:60265 LOON TP7 115 60830 EASTWD18 115 P1       -411.1  -310.0 -0.05024         -0.02554  -187.3  -135.9
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                               -0.21823  0.11319  1025.6   797.8
1080  -2012.0 L:60809 SJA SWS869.0 62805 STJAMES869.0 1         -39.3   -36.0 -0.00162         -0.00284   -33.5   -27.8
              C:60934 WATOWAN869.0 62804 SVEADTP869.0 1    3218
                Open 60934 WATOWAN869.0 62804 SVEADTP869.0 1                               -0.35456 -0.00344    16.2    23.1
1081  -2001.4 L:34061 BNE JCT5 161 34076 BNE JCT7 115 3          62.9    45.0  0.00896          0.00441    31.0    22.1
              C:34061 BNE JCT5 161 34076 BNE JCT7 115 2     137
                Open 34061 BNE JCT5 161 34076 BNE JCT7 115 2                                0.68381  0.00666    46.8    33.4
1082  -1994.4 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -55.6   -48.0 -0.00382         -0.00216   -51.9   -47.6
              C:BYN-WOW/KAN5                               3656
                Open 61948 BYRON  5 161 61964 OWATNNA5 161 1                                0.08197 -0.02026   -46.5    -6.1
                Open 60799 KASSON 869.0 61161 BYRON  869.0 1                                0.00368  0.00000    36.1    36.1
1083  -1990.7 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -52.8   -48.0 -0.00239         -0.00216   -58.1   -53.8
              C:61948 BYRON  5 161 61950 BYRON  3 345 1    1697
                Open 61948 BYRON  5 161 61950 BYRON  3 345 1                               -0.02779  0.00828  -193.4  -209.8
1084  -1982.8 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -265.0  -200.0 -0.03277         -0.03224  -253.3  -189.4
              C:34384 MCARMOR869.0 34396 EMERY N869.0 1     539
                Open 34384 MCARMOR869.0 34396 EMERY N869.0 1                                0.26627 -0.00199   -43.9   -39.9
1085  -1975.9 L:60809 SJA SWS869.0 60709 STJMSMU869.0 1          39.2    36.0  0.00162          0.00284    33.5    27.8
              C:60934 WATOWAN869.0 62804 SVEADTP869.0 1    3218
                Open 60934 WATOWAN869.0 62804 SVEADTP869.0 1                                0.35456 -0.00344    16.2    23.0
1086  -1971.9 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -22.1   -19.3 -0.00144         -0.00094   -16.3   -14.4
              C:60194 CARVRCO7 115 60243 SCOTTAP7 115 1    1132
                Open 60194 CARVRCO7 115 60243 SCOTTAP7 115 1                               -0.09734  0.00514    60.0    49.9
1088  -1960.3 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -263.2  -200.0 -0.03224         -0.03224  -253.3  -190.1
              C:60008 RIVRS78G22.0 60240 RIVRSID7 115 1    2901
                Open 60008 RIVRS78G22.0 60240 RIVRSID7 115 1                                0.04347  0.00000  -228.0  -228.0
1090  -1939.8 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -262.5  -200.0 -0.03224         -0.03224  -253.3  -190.8
              C:63001 COAL 42G22.0 63041 COAL CR4 230 1    3399
                Open 63001 COAL 42G22.0 63041 COAL CR4 230 1                                0.01731  0.00000  -534.3  -534.3
1091  -1937.5 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -262.5  -200.0 -0.03224         -0.03224  -253.3  -190.8
              C:63000 COAL 41G22.0 63041 COAL CR4 230 1    3398
                Open 63000 COAL 41G22.0 63041 COAL CR4 230 1                                0.01731  0.00000  -530.0  -530.0
1092  -1928.0 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -69.2   -66.0 -0.00166         -0.00166   -66.5   -63.3
              C:60001 SHERC32G24.0 60160 SHERCO 3 345 1    2894
                Open 60001 SHERC32G24.0 60160 SHERCO 3 345 1                                0.00377  0.00000  -711.4  -711.4
1093  -1924.4 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -69.2   -66.0 -0.00166         -0.00166   -66.5   -63.3
              C:60000 SHERC31G24.0 60160 SHERCO 3 345 1    2893
                Open 60000 SHERC31G24.0 60160 SHERCO 3 345 1                                0.00377  0.00000  -709.8  -709.8
1094  -1913.9 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -261.7  -200.0 -0.03224         -0.03224  -253.3  -191.6
              C:63314 BIGSTON4 230 63315 BIGSTN1G24.0 1    3460
                Open 63314 BIGSTON4 230 63315 BIGSTN1G24.0 1                                0.01867  0.00000  -450.6  -450.6
1095  -1906.5 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -264.5  -200.0 -0.03382         -0.03224  -253.3  -191.8
              C:34016 EMERY  5 161 63774 SHEFFLD5 161 1    2723
                Open 34016 EMERY  5 161 63774 SHEFFLD5 161 1                               -0.31478  0.00503    35.6    26.0
1096  -1904.7 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         148.4   144.0  0.00231          0.00232   143.5   139.1
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              C:845                                        3778
                Open 60306 HOLCOMB7 115 60322 CORNELL7 115 1                          -0.14792  0.00006   -29.7   -29.9
                Open 60322 CORNELL7 115 69157 ANDERSN7 115 1     NA
                Open 60326 JIMFLS 7 115 69157 ANDERSN7 115 1                          -0.02227  0.00000   -22.5   -22.5
1097  -1893.4 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -261.0  -200.0 -0.03224         -0.03224  -253.3  -192.2
              C:34021 LANSINGW 161 34024 LANS5 4G22.0 1    2730
                Open 34021 LANSINGW 161 34024 LANS5 4G22.0 1                           0.04756  0.00000  -163.0  -163.0
1098  -1889.8 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -260.9  -200.0 -0.03224         -0.03224  -253.3  -192.4
              C:60014 BLK D74G18.0 60200 BLK DG27 115 1    2907
                Open 60014 BLK D74G18.0 60200 BLK DG27 115 1                           0.04450  0.00000  -171.7  -171.7
1099  -1889.5 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -261.9  -200.0 -0.03277         -0.03224  -253.3  -192.4
              C:34383 MC 25ST869.0 34384 MCARMOR869.0 1     537
                Open 34383 MC 25ST869.0 34384 MCARMOR869.0 1                           0.26627 -0.00199   -32.4   -28.6
1100  -1889.5 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -261.9  -200.0 -0.03277         -0.03224  -253.3  -192.4
              C:34383 MC 25ST869.0 34385 MC NWT 869.0 1     538
                Open 34383 MC 25ST869.0 34385 MC NWT 869.0 1                          -0.26627  0.00199    32.4    28.6
1101  -1884.9 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -69.1   -66.0 -0.00166         -0.00166   -66.5   -63.4
              C:60003 PR IS31G20.0 60105 PR ISLD3 345 1    2896
                Open 60003 PR IS31G20.0 60105 PR ISLD3 345 1                           0.00492  0.00000  -531.4  -531.4
1102  -1884.8 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -260.8  -200.0 -0.03224         -0.03224  -253.3  -192.5
              C:60010 HIBRD76G18.0 60214 HIBRDGE7 115 1    2903
                Open 60010 HIBRD76G18.0 60214 HIBRDGE7 115 1                           0.04439  0.00000  -168.4  -168.4
1103  -1873.2 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -270.6  -200.0 -0.03768         -0.03224  -253.3  -192.9
              C:34010 HAYWARD5 161 34013 WNBAGOS5 161 1      33
                Open 34010 HAYWARD5 161 34013 WNBAGOS5 161 1                           0.16250 -0.03349  -106.4   -43.7
1104  -1870.8 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          42.6    36.0  0.00351          0.00284    37.3    32.0
              C:34012 FOXLAKE869.0 34275 WELCOMT869.0 1      39
                Open 34012 FOXLAKE869.0 34275 WELCOMT869.0 1                           0.17463  0.00381    29.8    22.7
1105  -1870.6 L:60719 LAFAYET869.0 60725 WINTHRP869.0 1          43.5    37.0  0.00349          0.00152    25.7    22.8
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                           0.01742  0.11319  1025.6   813.9
1106  -1864.2 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -260.1  -200.0 -0.03224         -0.03224  -253.3  -193.2
              C:60110 WILMART7 115  8007 G261-CT215.0 1    2943
                Open 60110 WILMART7 115  8007 G261-CT215.0 1                           0.03996  0.00000  -170.5  -170.5
1107  -1864.2 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -260.1  -200.0 -0.03224         -0.03224  -253.3  -193.2
              C:60110 WILMART7 115  8006 G261-CT115.0 1    2942
                Open 60110 WILMART7 115  8006 G261-CT115.0 1                           0.03996  0.00000  -170.5  -170.5
1108  -1862.6 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -260.0  -200.0 -0.03224         -0.03224  -253.3  -193.2
              C:60007 RIVRS76G14.0 60240 RIVRSID7 115 1    2900
                Open 60007 RIVRS76G14.0 60240 RIVRSID7 115 1                           0.04347  0.00000  -155.5  -155.5
1109  -1858.2 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -259.9  -200.0 -0.03224         -0.03224  -253.3  -193.4
              C:67315 COYOTE1G24.0 67316 COYOTE 3 345 1    3616
                Open 67315 COYOTE1G24.0 67316 COYOTE 3 345 1                           0.01738  0.00000  -380.7  -380.7
1110  -1857.7 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -269.5  -200.0 -0.03740         -0.03224  -253.3  -193.4
              C:LAKF-FOX DBL                               3784
                Open 34007 LAKEFLD5 161 34008 FOX LK 5 161 1                          -0.09581  0.02660    81.2    31.8
                Open 34007 LAKEFLD5 161 34008 FOX LK 5 161 2                          -0.09581  0.02728    87.8    37.1
1111  -1844.7 L:60371 ERIE RD7 115 66508 S3     7 115 1         147.0   140.0  0.00381          0.00474    93.1    84.3
              C:60286 NOBLES 3 345 60287 NOBLES 7 115 C1   1292
                Open 60286 NOBLES 3 345 60287 NOBLES 7 115 C1                         -0.12650  0.00735  -426.7  -440.3
1112  -1843.6 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -69.1   -66.0 -0.00166         -0.00166   -66.5   -63.5
              C:60004 PR IS32G20.0 60105 PR ISLD3 345 1    2897
                Open 60004 PR IS32G20.0 60105 PR ISLD3 345 1                           0.00492  0.00000  -517.4  -517.4
1113  -1841.8 L:67401 ABDNJCT7 115 67402 ABDNSBT7 115 1         -84.8   -80.0 -0.00262         -0.00273   -56.4   -51.4
              C:67342 HESKETT4 230 67394 WISHEK 4 230 1    2678
                Open 67342 HESKETT4 230 67394 WISHEK 4 230 1                          -0.23667 -0.00046   119.9   120.8
1114  -1834.4 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          42.1    36.0  0.00331          0.00284    37.3    32.1
              C:34250 LEWISVL869.0 62799 LWSVLTP869.0 1     405
                Open 34250 LEWISVL869.0 62799 LWSVLTP869.0 1                          -0.50244 -0.00093    -9.4    -7.7
1115  -1833.0 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -274.3  -200.0 -0.04052         -0.03224  -253.3  -194.2
              C:34006 LAKEFLD3 345 60331 LKFLDXL3 345 1      21
                Open 34006 LAKEFLD3 345 60331 LKFLDXL3 345 1                          -0.06039  0.13721   347.7    96.1
1116  -1830.1 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -259.8  -200.0 -0.03266         -0.03224  -253.3  -194.3
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              C:795                                        3768
                Open 60150 MNVLTAP4 230 66550 GRANITF4 230 1                          0.02499 -0.01397  -262.1  -236.5
                Open 60148 MINVALY7 115 60149 MINVALT4 230 C1                        -0.02428  0.00290    16.5    11.2
                Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                          0.04259  0.00000     0.0     0.0
                Open 60149 MINVALT4 230 60150 MNVLTAP4 230 1     NA
                Open 60742 PANTHER869.0 63054 PANTHER4 230 1                         -0.01020  0.00014   -45.6   -45.8
1117  -1828.2 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -259.9  -200.0 -0.03277         -0.03224  -253.3  -194.3
              C:34385 MC NWT 869.0 34387 MCLPCSS869.0 1     541
                Open 34385 MC NWT 869.0 34387 MCLPCSS869.0 1                         -0.26627  0.00199    24.9    21.2
1118  -1825.8 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -51.9   -48.0 -0.00216
                Base Case
1119  -1824.3 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -259.5  -200.0 -0.03261         -0.03224  -253.3  -194.5
              C:60150 MNVLTAP4 230 63054 PANTHER4 230 1    2955
                Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                         -0.02230  0.01686   278.5   247.8
1120  -1823.4 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         148.1   144.0  0.00224          0.00232   143.5   139.3
              C:60296 SHELDNP7 115 60297 OSPREY 7 115 1    1305
                Open 60296 SHELDNP7 115 60297 OSPREY 7 115 1                          0.12785 -0.00062    35.9    37.0
1122  -1819.2 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -258.6  -200.0 -0.03224         -0.03224  -253.3  -194.6
              C:67101 ANTELOP3 345 67107 ANTEL32G24.0 1    3589
                Open 67101 ANTELOP3 345 67107 ANTEL32G24.0 1                          0.01283  0.00000  -417.8  -417.8
1123  -1819.2 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -258.6  -200.0 -0.03224         -0.03224  -253.3  -194.6
              C:67101 ANTELOP3 345 67103 ANTEL31G24.0 1    3588
                Open 67101 ANTELOP3 345 67103 ANTEL31G24.0 1                          0.01283  0.00000  -417.8  -417.8
1124  -1817.8 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -256.6  -200.0 -0.03113         -0.03224  -253.3  -194.7
              C:61984 AUSTIN 5 161 63070 PL VLLY5 161 1    3379
                Open 61984 AUSTIN 5 161 63070 PL VLLY5 161 1                          0.08827  0.01250   -37.5   -60.2
1125  -1816.4 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -258.6  -200.0 -0.03224         -0.03224  -253.3  -194.7
              C:60218 INVRHLS7 115 61478 INV TR1Y 115 1    1202
                Open 60218 INVRHLS7 115 61478 INV TR1Y 115 1                          0.04584  0.00000  -115.0  -115.0
1126  -1811.6 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -258.4  -200.0 -0.03224         -0.03224  -253.3  -194.9
              C:60317 WHEATON5 161 61481 WHT TR1Y 161 1    1345
                Open 60317 WHEATON5 161 61481 WHT TR1Y 161 1                          0.04335  0.00000  -118.0  -118.0
1127  -1809.3 L:60208 EDINA  7 115 60263 EDEN PR7 115 1        -324.8  -318.0 -0.00376         -0.00290  -288.5  -283.3
              C:022       1                                3706
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                         -0.02129  0.02473   273.5   228.7
                Open 60221 KOLMNLK3 345 60251 TERMINL3 345 1                         -0.02222 -0.02272   209.4   250.5
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                         -0.04351  0.01927   549.2   514.4
                Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                         -0.00849  0.00023   225.9   225.5
                Open 60251 TERMINL3 345 61492 TERMID1Y 345 1     NA
                Open 60252 TERMINL7 115 61492 TERMID1Y 345 1                         -0.00000  0.00172  -377.2  -380.3
                Open 61187 TERTER1934.5 61492 TERMID1Y 345 1     NA
                Open 60251 TERMINL3 345 61491 TERMID2Y 345 1     NA
                Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                          0.03308  0.00000     0.7     0.7
                Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
1128  -1808.4 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -258.3  -200.0 -0.03224         -0.03224  -253.3  -195.0
              C:60013 BLK D73G13.8 60200 BLK DG27 115 1    2906
                Open 60013 BLK D73G13.8 60200 BLK DG27 115 1                          0.04450  0.00000  -112.6  -112.6
1129  -1802.8 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -257.3  -200.0 -0.03177         -0.03224  -253.3  -195.2
              C:34006 LAKEFLD3 345 60286 NOBLES 3 345 C1     20
                Open 34006 LAKEFLD3 345 60286 NOBLES 3 345 C1                         0.01829  0.02531  -218.6  -264.2
1130  -1792.3 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -257.8  -200.0 -0.03224         -0.03224  -253.3  -195.5
              C:60012 BLK D76G13.8 60190 BLK DOG7 115 1    2905
                Open 60012 BLK D76G13.8 60190 BLK DOG7 115 1                          0.04256  0.00000  -105.6  -105.6
1131  -1791.7 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -62.9   -58.0 -0.00273         -0.00273   -56.6   -51.7
              C:34146 OTTUMW1G24.0 34189 OTTUMWA5 161 1    2812
                Open 34146 OTTUMW1G24.0 34189 OTTUMWA5 161 1                          0.01345  0.00000  -466.3  -466.3
1132  -1788.7 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -259.5  -200.0 -0.03328         -0.03224  -253.3  -195.6
              C:34571 FRNKLN_Y 161 64239 FRANKLN5 161 1    2859
                Open 34571 FRNKLN_Y 161 64239 FRANKLN5 161 1                          0.08377 -0.01241   -74.4   -52.2
1133  -1788.7 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -259.5  -200.0 -0.03328         -0.03224  -253.3  -195.6
              C:34072 FRNKLIN7 115 34571 FRNKLN_Y 161 1     156
                Open 34072 FRNKLIN7 115 34571 FRNKLN_Y 161 1                          0.08377 -0.01241   -74.4   -52.2
1134  -1788.7 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -259.5  -200.0 -0.03328         -0.03224  -253.3  -195.6
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              C:34072 FRNKLIN7 115 34077 IA FALS7 115 1     155
                Open 34072 FRNKLIN7 115 34077 IA FALS7 115 1                          -0.08377  0.01241    74.4    52.2
1135  -1786.2 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -258.3  -200.0 -0.03261         -0.03224  -253.3  -195.7
              C:62980 MCLEOD 4 230 63054 PANTHER4 230 1    3396
                Open 62980 MCLEOD 4 230 63054 PANTHER4 230 1                           0.02223 -0.01700  -223.7  -193.3
1136  -1785.6 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -257.6  -200.0 -0.03224         -0.03224  -253.3  -195.7
              C:60009 HIBRD75G13.8 60214 HIBRDGE7 115 1    2902
                Open 60009 HIBRD75G13.8 60214 HIBRDGE7 115 1                           0.04439  0.00000   -96.4   -96.4
1137  -1783.9 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -257.5  -200.0 -0.03224         -0.03224  -253.3  -195.8
              C:60193 BLUE LK7 115 61477 BLL TR6Y 115 6    1131
                Open 60193 BLUE LK7 115 61477 BLL TR6Y 115 6                           0.04399  0.00000   -96.0   -96.0
1138  -1781.2 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -257.4  -200.0 -0.03224         -0.03224  -253.3  -195.9
              C:60193 BLUE LK7 115 61476 BLL TR5Y 115 5    1130
                Open 60193 BLUE LK7 115 61476 BLL TR5Y 115 5                           0.04399  0.00000   -94.0   -94.0
1139  -1780.9 L:60797 KENYNTP869.0 62389 KENYON 869.0 1         -39.7   -37.0 -0.00152         -0.00161   -25.9   -23.0
              C:SPC-PRI/CTF5                               3685
                Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                          -0.12792 -0.00258   145.8   150.3
                Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                          -0.07762  0.00307   -62.4   -67.8
1140  -1779.3 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -69.0   -66.0 -0.00166         -0.00166   -66.5   -63.6
              C:60006 KING 31G20.0 60186 AS KING3 345 1    2899
                Open 60006 KING 31G20.0 60186 AS KING3 345 1                           0.00423  0.00000  -576.7  -576.7
1141  -1776.9 L:34251 MADLIAJ869.0 60716 STJ EAS869.0 1         -51.5   -36.0 -0.00870         -0.00284   -12.6    -7.6
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                           0.04191 -0.13974  -926.4  -678.1
1142  -1775.5 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -257.7  -200.0 -0.03251         -0.03224  -253.3  -196.0
              C:61906 MAPLE LF 161 61948 BYRON  5 161 1    3374
                Open 61906 MAPLE LF 161 61948 BYRON  5 161 1                           0.02262 -0.01198  -196.1  -174.8
1143  -1774.7 L:60809 SJA SWS869.0 62805 STJAMES869.0 1         -45.7   -36.0 -0.00547         -0.00284   -33.5   -28.5
              C:34008 FOX LK 5 161 61932 RUTLAND5 161 1      28
                Open 34008 FOX LK 5 161 61932 RUTLAND5 161 1                          -0.05459  0.04814   223.4   137.9
1144  -1769.2 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -257.0  -200.0 -0.03224         -0.03224  -253.3  -196.3
              C:34395 EMERY S869.0 34403 CL LAKT869.0 1     552
                Open 34395 EMERY S869.0 34403 CL LAKT869.0 1                          -0.14829  0.00000    25.3    25.3
1145  -1768.3 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -257.0  -200.0 -0.03224         -0.03224  -253.3  -196.3
              C:66749 CENTER1G22.0 66751 CENTER 4 230 1    3577
                Open 66749 CENTER1G22.0 66751 CENTER 4 230 1                           0.01680  0.00000  -221.3  -221.3
1146  -1766.8 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -257.0  -200.0 -0.03228         -0.03224  -253.3  -196.3
              C:63369 JAMESTN3 345 66791 CENTER 3 345 1    2201
                Open 63369 JAMESTN3 345 66791 CENTER 3 345 1                           0.00847 -0.00471  -441.7  -433.3
1147  -1766.7 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -256.2  -200.0 -0.03181         -0.03224  -253.3  -196.3
              C:34019 HAZLTON5 161 61930 WINDSOR5 161 1      59
                Open 34019 HAZLTON5 161 61930 WINDSOR5 161 1                          -0.05983 -0.00716    48.7    61.3
1148  -1763.9 L:60809 SJA SWS869.0 60709 STJMSMU869.0 1          45.6    36.0  0.00547          0.00284    33.5    28.4
              C:34008 FOX LK 5 161 61932 RUTLAND5 161 1      28
                Open 34008 FOX LK 5 161 61932 RUTLAND5 161 1                           0.05459  0.04814   223.4   138.4
1149  -1763.5 L:61934 RUTLAND 69.0 61942 10TH STR69.0 1         -59.0   -36.0 -0.01303         -0.00381   -16.2    -9.5
              C:34008 FOX LK 5 161 61932 RUTLAND5 161 1      28
                Open 34008 FOX LK 5 161 61932 RUTLAND5 161 1                          -0.19162  0.04814   223.4   138.5
1150  -1759.1 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -256.7  -200.0 -0.03224         -0.03224  -253.3  -196.6
              C:60331 LKFLDXL3 345 63093 LGS  56Y1.00 1    3025
                Open 60331 LKFLDXL3 345 63093 LGS  56Y1.00 1                           0.01872  0.00000  -182.9  -182.9
1151  -1759.1 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -256.7  -200.0 -0.03224         -0.03224  -253.3  -196.6
              C:60331 LKFLDXL3 345 63092 LGS  34Y1.00 1    3024
                Open 60331 LKFLDXL3 345 63092 LGS  34Y1.00 1                           0.01872  0.00000  -182.9  -182.9
1152  -1759.1 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -256.7  -200.0 -0.03224         -0.03224  -253.3  -196.6
              C:60331 LKFLDXL3 345 63091 LGS  12Y1.00 1    3023
                Open 60331 LKFLDXL3 345 63091 LGS  12Y1.00 1                           0.01872  0.00000  -182.9  -182.9
1153  -1758.5 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -257.0  -200.0 -0.03243         -0.03224  -253.3  -196.6
              C:66530 WATERTN4 230 66550 GRANITF4 230 1    2503
                Open 66530 WATERTN4 230 66550 GRANITF4 230 1                          -0.01458  0.01320   256.5   233.3
1154  -1756.2 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -256.9  -200.0 -0.03239         -0.03224  -253.3  -196.7
              C:34393 MCHW106869.0 34394 MC 5DEL869.0 1     549
                Open 34393 MCHW106869.0 34394 MC 5DEL869.0 1                          -0.12293  0.00127    29.3    27.1
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1155  -1755.2 L:60797 KENYNTP869.0 62389 KENYON 869.0 1         -39.7   -37.0 -0.00152         -0.00161   -25.9   -23.1
              C:740    1                                   3757
                Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                          -0.07762  0.00307   -62.4   -67.7
                Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                          -0.12792 -0.00258   145.8   150.3
                Open 60103 CANNFLS5 161 60104 CANNFLS7 115 1                           0.05199  0.00000     0.7     0.7
1156  -1749.9 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -256.7  -200.0 -0.03243         -0.03224  -253.3  -196.9
              C:500                                       3721
                Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                           0.01848 -0.01028  -223.5  -205.5
                Open 62427 WILLMAR869.0 63050 WILLMAR4 230 1                          -0.01425  0.00004   -47.0   -47.0
1157  -1749.5 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -256.5  -200.0 -0.03228         -0.03224  -253.3  -196.9
              C:63358 BUFFALO3 345 63369 JAMESTN3 345 1    2197
                Open 63358 BUFFALO3 345 63369 JAMESTN3 345 1                           0.00847 -0.00471  -375.7  -367.5
1158  -1748.8 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -257.3  -200.0 -0.03276         -0.03224  -253.3  -196.9
              C:66529 WATERTN3 345 66537 WHITE  3 345 1    2501
                Open 66529 WATERTN3 345 66537 WHITE  3 345 1                           0.01300 -0.04065  -308.9  -237.8
1159  -1746.4 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -256.3  -200.0 -0.03224         -0.03224  -253.3  -197.0
              C:34401 6THAVET869.0 34403 CL LAKT869.0 1     556
                Open 34401 6THAVET869.0 34403 CL LAKT869.0 1                          -0.14829  0.00000    20.3    20.3
1160  -1745.9 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -256.3  -200.0 -0.03228         -0.03224  -253.3  -197.0
              C:63358 BUFFALO3 345 66792 MAPLE R3 345 1    2198
                Open 63358 BUFFALO3 345 66792 MAPLE R3 345 1                          -0.00847  0.00471   362.1   353.9
1161  -1739.6 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -256.1  -200.0 -0.03224         -0.03224  -253.3  -197.2
              C:60029 INV  72G13.8 61478 INV TR1Y 115 1    2920
                Open 60029 INV  72G13.8 61478 INV TR1Y 115 1                           0.04584  0.00000   -61.0   -61.0
1162  -1739.2 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -256.4  -200.0 -0.03242         -0.03224  -253.3  -197.2
              C:60156 PYNSVIL7 115 60356 PAYNES 4 230 C1   1069
                Open 60156 PYNSVIL7 115 60356 PAYNES 4 230 C1                          0.01782 -0.01032  -174.0  -156.0
1163  -1739.2 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -256.4  -200.0 -0.03242         -0.03224  -253.3  -197.2
              C:60356 PAYNES 4 230 63050 WILLMAR4 230 C1   1366
                Open 60356 PAYNES 4 230 63050 WILLMAR4 230 C1                          0.01782 -0.01032  -174.0  -156.0
1164  -1738.5 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -256.5  -200.0 -0.03250         -0.03224  -253.3  -197.2
              C:66503 BLAIR  4 230 66530 WATERTN4 230 1    2448
                Open 66503 BLAIR  4 230 66530 WATERTN4 230 1                           0.01452 -0.01853  -222.1  -189.9
1165  -1737.6 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -256.0  -200.0 -0.03224         -0.03224  -253.3  -197.3
              C:60035 WHT  52G13.8 61481 WHT TR1Y 161 1    2926
                Open 60035 WHT  52G13.8 61481 WHT TR1Y 161 1                           0.04335  0.00000   -63.0   -63.0
1166  -1736.9 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -254.5  -200.0 -0.03136         -0.03224  -253.3  -197.3
              C:34028 LORE   5 161 34033 TRK RIV5 161 1      70
                Open 34028 LORE   5 161 34033 TRK RIV5 161 1                          -0.03104 -0.02831    38.1    87.3
1167  -1735.4 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -256.1  -200.0 -0.03234         -0.03224  -253.3  -197.3
              C:66503 BLAIR  4 230 66550 GRANITF4 230 1    2449
                Open 66503 BLAIR  4 230 66550 GRANITF4 230 1                          -0.01042  0.00970   271.9   255.1
1168  -1734.8 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -256.7  -200.0 -0.03271         -0.03224  -253.3  -197.4
              C:60265 LOON TP7 115 60830 EASTWD18 115 P1   1276
                Open 60265 LOON TP7 115 60830 EASTWD18 115 P1                          0.01847 -0.02554  -187.3  -143.0
1169  -1734.5 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -255.9  -200.0 -0.03224         -0.03224  -253.3  -197.4
              C:63002 STANT41G18.0 63049 STANTON4 230 1    3400
                Open 63002 STANT41G18.0 63049 STANTON4 230 1                           0.01697  0.00000  -154.9  -154.9
1170  -1734.1 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -255.9  -200.0 -0.03224         -0.03224  -253.3  -197.4
              C:67105 LELANDO3 345 67111 LELAN32G20.0 1    3591
                Open 67105 LELANDO3 345 67111 LELAN32G20.0 1                           0.01304  0.00000  -200.7  -200.7
1171  -1732.1 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -256.1  -200.0 -0.03236         -0.03224  -253.3  -197.4
              C:63050 WILLMAR4 230 66550 GRANITF4 230 1    2053
                Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                           0.01242 -0.01028  -223.5  -205.7
1172  -1731.1 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -256.7  -200.0 -0.03277         -0.03224  -253.3  -197.5
              C:34387 MCLPCSS869.0 34389 MC LPC 869.0 1     543
                Open 34387 MCLPCSS869.0 34389 MC LPC 869.0 1                          -0.26627  0.00199    12.9     9.5
1173  -1730.3 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -255.8  -200.0 -0.03224         -0.03224  -253.3  -197.5
              C:34006 LAKEFLD3 345  3400 G164    34.5 1    2710
                Open 34006 LAKEFLD3 345  3400 G164    34.5 1                           0.01249  0.00000  -199.8  -199.8
1174  -1729.7 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -255.8  -200.0 -0.03224         -0.03224  -253.3  -197.5
              C:60028 INV  71G13.8 61478 INV TR1Y 115 1    2919
                Open 60028 INV  71G13.8 61478 INV TR1Y 115 1                           0.04584  0.00000   -54.0   -54.0
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1175  -1728.1 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -255.7  -200.0 -0.03224         -0.03224  -253.3  -197.6
              C:34007 LAKEFLD5 161  6006 G262    34.5 1    2712
                Open 34007 LAKEFLD5 161  6006 G262    34.5 1                          0.01212  0.00000  -200.0  -200.0
1176  -1728.1 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -256.1  -200.0 -0.03249         -0.03224  -253.3  -197.6
              C:66236 WATERT1T 345 66529 WATERTN3 345 1    2238
                Open 66236 WATERT1T 345 66529 WATERTN3 345 1                          0.00876 -0.02864  -326.1  -276.6
1177  -1728.0 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -256.1  -200.0 -0.03249         -0.03224  -253.3  -197.6
              C:66236 WATERT1T 345 66530 WATERTN4 230 1    2239
                Open 66236 WATERT1T 345 66530 WATERTN4 230 1                         -0.00876  0.02864   325.9   276.4
1178  -1728.0 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -256.1  -200.0 -0.03249         -0.03224  -253.3  -197.6
              C:WATERT1T                                   3786
                Open 66236 WATERT1T 345 66237 WATERT1913.8 1     NA
                Open 66236 WATERT1T 345 66529 WATERTN3 345 1                          0.00876 -0.02864  -326.1  -276.6
                Open 66236 WATERT1T 345 66530 WATERTN4 230 1                          0.01548  0.00000     0.2     0.2
1179  -1727.0 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -255.7  -200.0 -0.03224         -0.03224  -253.3  -197.6
              C:34008 FOX LK 5 161 34011 FOXLK53G13.8 1    2713
                Open 34008 FOX LK 5 161 34011 FOXLK53G13.8 1                          0.02914  0.00000   -82.0   -82.0
1180  -1726.9 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -255.7  -200.0 -0.03224         -0.03224  -253.3  -197.6
              C:60034 WHT  51G13.8 61481 WHT TR1Y 161 1    2925
                Open 60034 WHT  51G13.8 61481 WHT TR1Y 161 1                          0.04335  0.00000   -55.0   -55.0
1181  -1726.5 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -255.8  -200.0 -0.03234         -0.03224  -253.3  -197.6
              C:63327 HANKSON4 230 63329 WAHPETN4 230 1    2192
                Open 63327 HANKSON4 230 63329 WAHPETN4 230 1                         -0.00993  0.01075   257.3   238.8
1182  -1726.1 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -255.6  -200.0 -0.03224         -0.03224  -253.3  -197.6
              C:34401 6THAVET869.0 34411 CLGRTLK869.0 1     557
                Open 34401 6THAVET869.0 34411 CLGRTLK869.0 1                         -0.14829  0.00000    15.9    15.9
1183  -1725.5 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         148.5   144.0  0.00263          0.00232   143.5   139.5
              C:60187 AS KING7 115 60325 WILOWRV7 115 1    1118
                Open 60187 AS KING7 115 60325 WILOWRV7 115 1                          0.04179  0.00743   120.6   107.8
1184  -1721.0*L:34015 LIME CK5 161 34016 EMERY  5 161 1        -255.9  -200.0 -0.03250         -0.03224  -253.3  -197.8
              C:60189 BLK DOG4 230 62980 MCLEOD 4 230 1    1121
                Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                          0.02003 -0.01298  -132.0  -109.6
1204  -1710.9 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -68.7   -66.0 -0.00155         -0.00166   -66.5   -63.7
              C:60103 CANNFLS5 161 63071 SPRNGCK5 161 1    2937
                Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                          0.03437  0.00307   -62.4   -67.6
1211  -1703.1 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          42.0    36.0  0.00351          0.00284    37.3    32.5
              C:34275 WELCOMT869.0 61942 10TH STR69.0 1     441
                Open 34275 WELCOMT869.0 61942 10TH STR69.0 1                          0.17463  0.00381    26.5    20.0
1216  -1700.8 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          41.6    36.0  0.00331          0.00284    37.3    32.5
              C:34250 LEWISVL869.0 34267 HANSKAT869.0 1     404
                Open 34250 LEWISVL869.0 34267 HANSKAT869.0 1                          0.50244  0.00093     8.5     6.9
1231  -1694.3 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -68.6   -66.0 -0.00155         -0.00166   -66.5   -63.7
              C:60103 CANNFLS5 161 60104 CANNFLS7 115 1     945
                Open 60103 CANNFLS5 161 60104 CANNFLS7 115 1                         -0.03437 -0.00307    61.6    66.8
1248  -1687.6 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         147.9   144.0  0.00231          0.00232   143.5   139.6
              C:60306 HOLCOMB7 115 60322 CORNELL7 115 1    1323
                Open 60306 HOLCOMB7 115 60322 CORNELL7 115 1                         -0.14792  0.00006   -29.7   -29.8
1249  -1687.3 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -68.6   -66.0 -0.00155         -0.00166   -66.5   -63.7
              C:740    2                                   3758
                Open 60103 CANNFLS5 161 60104 CANNFLS7 115 1                         -0.03437 -0.00307    61.6    66.8
                Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                          0.01453  0.00000     0.7     0.7
1252  -1687.2 L:60684 YELWMED869.0 60903 LYON CO869.0 1         -51.9   -47.0 -0.00291         -0.00188   -35.5   -32.3
              C:60148 MINVALY7 115 60171 LYON CO7 115 1    1049
                Open 60148 MINVALY7 115 60171 LYON CO7 115 1                          0.15376 -0.00670  -106.8   -95.5
1281  -1657.3 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -68.8   -66.0 -0.00169         -0.00166   -66.5   -63.8
              C:60342 WHAST  7 115 62258 WHASTNG869.0 1    3032
                Open 60342 WHAST  7 115 62258 WHASTNG869.0 1                         -0.04535  0.00078    50.6    49.3
1282  -1657.1 L:60809 SJA SWS869.0 62805 STJAMES869.0 1         -38.7   -36.0 -0.00162         -0.00284   -33.5   -28.8
              C:60935 BUTRFLD869.0 62804 SVEADTP869.0 1    3221
                Open 60935 BUTRFLD869.0 62804 SVEADTP869.0 1                          0.35456  0.00344   -14.6   -20.3
1283  -1652.9 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -253.3  -200.0 -0.03224
                Base Case
1288  -1641.7 L:60170 MARSHAL7 115 60371 ERIE RD7 115 1         135.6   127.9  0.00471          0.00364   106.4   100.4
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                C:60372 SARATOG7 115 60373 SOUTH E7 115 1    1374
                  Open 60372 SARATOG7 115 60373 SOUTH E7 115 1                          -0.96689 -0.00110   -30.3   -28.5
1289  -1637.5 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          15.1    13.7  0.00085          0.00090    14.0    12.6
                C:PRI-RRK/RRK3                               3647
                  Open 60105 PR ISLD3 345 60236 REDROCK3 345 1                           0.00133 -0.01690   390.7   418.4
                  Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                           0.00133 -0.01722   398.2   426.4
1290  -1637.5 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          15.1    13.7  0.00085          0.00090    14.0    12.6
                C:760                                        3762
                  Open 60105 PR ISLD3 345 60236 REDROCK3 345 1                           0.00133 -0.01690   390.7   418.4
                  Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                           0.00133 -0.01722   398.2   426.4
1294  -1632.6 L:63195 BIGSTONY 230 63214 BIGSTON7 115 1         240.5   233.0  0.00460          0.00278   187.9   183.3
                C:63325 BROWNSV4 230 63327 HANKSON4 230 1    2191
                  Open 63325 BROWNSV4 230 63327 HANKSON4 230 1                           0.30006  0.00605   175.4   165.5
1295  -1631.6 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -68.7   -66.0 -0.00166         -0.00166   -66.5   -63.8
                C:60005 MNTCE31G22.0 60151 MNTCELO3 345 1    2898
                  Open 60005 MNTCE31G22.0 60151 MNTCELO3 345 1                           0.00372  0.00000  -588.5  -588.5
1298  -1624.3 L:63195 BIGSTONY 230 63314 BIGSTON4 230 1        -240.5  -233.0 -0.00460         -0.00278  -187.8  -183.3
                C:63325 BROWNSV4 230 63327 HANKSON4 230 1    2191
                  Open 63325 BROWNSV4 230 63327 HANKSON4 230 1                          -0.30006  0.00605   175.4   165.6
1301  -1620.9 L:60809 SJA SWS869.0 60709 STJMSMU869.0 1          38.6    36.0  0.00162          0.00284    33.5    28.8
                C:60935 BUTRFLD869.0 62804 SVEADTP869.0 1    3221
                  Open 60935 BUTRFLD869.0 62804 SVEADTP869.0 1                          -0.35456  0.00344   -14.6   -20.2
1316  -1614.3 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -21.6   -19.3 -0.00143         -0.00094   -16.3   -14.8
                C:CAR-WWK/AGA7                               3667
                  Open 60194 CARVRCO7 115 60277 WWACNIA7 115 1                          -0.04716  0.00414     5.6    -1.1
                  Open 60931 CARVRCO869.0 62676 AUGUSTA869.0 1                          -0.20662  0.00142    24.4    22.1
1334  -1606.0 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          15.1    13.7  0.00086          0.00090    14.0    12.6
                C:60153 MNTCELO7 115 60166 SALIDA 7 115 1    1062
                  Open 60153 MNTCELO7 115 60166 SALIDA 7 115 1                           0.01196 -0.00332    86.0    91.3
1348  -1597.6 L:60264 LOON LK7 115 61976 LOON LK869.0 1          82.6    75.0  0.00478          0.00538    79.0    70.4
                C:61964 OWATNNA5 161 61972 OWATANA169.0 1    1701
                  Open 61964 OWATNNA5 161 61972 OWATANA169.0 1                           0.20904 -0.00285    17.3    21.9
1349  -1597.2 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         265.2   181.0  0.05270          0.04428   218.7   148.0
                C:34016 EMERY  5 161 64252 FLOYD  5 161 1    2722
                  Open 34016 EMERY  5 161 64252 FLOYD  5 161 1                           0.24680  0.03409   188.3   133.8
1354  -1586.9 L:63195 BIGSTONY 230 63214 BIGSTON7 115 1         240.9   233.0  0.00500          0.00278   187.9   183.5
                C:63327 HANKSON4 230 63329 WAHPETN4 230 1    2192
                  Open 63327 HANKSON4 230 63329 WAHPETN4 230 1                           0.20619  0.01075   257.3   240.3
1360  -1583.8 L:60264 LOON LK7 115 61976 LOON LK869.0 1          82.6    75.0  0.00479          0.00538    79.0    70.5
                C:61964 OWATNNA5 161 61968 OWATANA269.0 2    1700
                  Open 61964 OWATNNA5 161 61968 OWATANA269.0 2                           0.20849 -0.00285    17.1    21.6
1362  -1582.6 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          15.1    13.7  0.00088          0.00090    14.0    12.6
                C:62293 RUSH CY869.0 63048 RUSH CY4 230 1    1848
                  Open 62293 RUSH CY869.0 63048 RUSH CY4 230 1                          -0.01164  0.00121   -90.1   -92.0
1363  -1579.3 L:63195 BIGSTONY 230 63314 BIGSTON4 230 1        -240.9  -233.0 -0.00500         -0.00278  -187.8  -183.4
                C:63327 HANKSON4 230 63329 WAHPETN4 230 1    2192
                  Open 63327 HANKSON4 230 63329 WAHPETN4 230 1                          -0.20619  0.01075   257.3   240.4
1369  -1572.4 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          15.1    13.7  0.00088          0.00090    14.0    12.6
                C:60142 BENTON 3 345 63045 BENTON 4 230 1    2950
                  Open 60142 BENTON 3 345 63045 BENTON 4 230 1                           0.00514 -0.00401   200.1   206.4
1381  -1559.0 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -21.2   -19.3 -0.00123         -0.00094   -16.3   -14.8
                C:60931 CARVRCO869.0 62676 AUGUSTA869.0 1    3216
                  Open 60931 CARVRCO869.0 62676 AUGUSTA869.0 1                          -0.20114  0.00142    24.4    22.2
1388  -1556.9 L:60809 SJA SWS869.0 62805 STJAMES869.0 1         -41.1   -36.0 -0.00331         -0.00284   -33.5   -29.1
                C:34280 TRUMANT869.0 61934 RUTLAND 69.0 1     450
                  Open 34280 TRUMANT869.0 61934 RUTLAND 69.0 1                           0.50244 -0.00093   -15.2   -13.8
1396  -1539.2 L:60809 SJA SWS869.0 60709 STJMSMU869.0 1          41.1    36.0  0.00331          0.00284    33.5    29.1
                C:34280 TRUMANT869.0 61934 RUTLAND 69.0 1     450
                  Open 34280 TRUMANT869.0 61934 RUTLAND 69.0 1                          -0.50244 -0.00093   -15.2   -13.8
1400  -1528.5 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          15.1    13.7  0.00090          0.00090    14.0    12.7
                C:60006 KING 31G20.0 60186 AS KING3 345 1    2899
                  Open 60006 KING 31G20.0 60186 AS KING3 345 1                          -0.00177  0.00000  -576.7  -576.7
1404  -1518.5 L:60809 SJA SWS869.0 62805 STJAMES869.0 1         -40.5   -36.0 -0.00296         -0.00284   -33.5   -29.2
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                C:34231 MT LAKE869.0 34281 MTLAKET869.0 1     383
                  Open 34231 MT LAKE869.0 34281 MTLAKET869.0 1                          -0.40950  0.00029    17.0    16.6
1411  -1498.7 L:60809 SJA SWS869.0 60709 STJMSMU869.0 1          40.4    36.0  0.00296          0.00284    33.5    29.2
                C:34231 MT LAKE869.0 34281 MTLAKET869.0 1     383
                  Open 34231 MT LAKE869.0 34281 MTLAKET869.0 1                           0.40950  0.00029    17.0    16.6
1418  -1466.4 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          42.6    36.0  0.00453          0.00284    37.3    33.2
                C:LAKF-FOX DBL                              3784
                  Open 34007 LAKEFLD5 161 34008 FOX LK 5 161 1                           0.03130  0.02660    81.2    42.2
                  Open 34007 LAKEFLD5 161 34008 FOX LK 5 161 2                           0.03130  0.02728    87.8    47.8
1422  -1453.2 L:34653 CRESTN8_69.0 34654 ECRESTP869.0 1         -39.6   -35.0 -0.00315         -0.00158    -7.0    -4.7
                C:34588 SLAKEN 869.0 34592 SLAKES 869.0 1     690
                  Open 34588 SLAKEN 869.0 34592 SLAKES 869.0 1                           0.57545 -0.00273   -56.6   -52.7
1424  -1436.7 L:60794 NRSTRND869.0 62389 KENYON 869.0 1          39.0    37.0  0.00140          0.00161    27.2    24.9
                C:60106 PR ISLD5 161 63071 SPRNGCK5 161 1    2939
                  Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                           0.08090 -0.00258   145.8   149.5
1425  -1436.7 L:60794 NRSTRND869.0 62389 KENYON 869.0 1          39.0    37.0  0.00140          0.00161    27.2    24.9
                C:60105 PR ISLD3 345 60106 PR ISLD5 161 1     947
                  Open 60105 PR ISLD3 345 60106 PR ISLD5 161 1                           0.08090 -0.00258   145.8   149.5
1427  -1432.3 L:60264 LOON LK7 115 61976 LOON LK869.0 1          83.1    75.0  0.00564          0.00538    79.0    71.3
                C:60110 WILMART7 115 60194 CARVRCO7 115 1     964
                  Open 60110 WILMART7 115 60194 CARVRCO7 115 1                           0.02980  0.00886   136.3   123.6
1428  -1427.0 L:60310 MONROCO5 161 60949 MONROCO869.0 1          74.3    70.0  0.00303          0.00246    57.4    53.9
                C:60953 WSTSALE869.0 60973 LAX    869.0 1    1561
                  Open 60953 WSTSALE869.0 60973 LAX    869.0 1                          -0.51791 -0.00109   -32.6   -31.0
1429  -1426.6 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          15.1    13.7  0.00095          0.00090    14.0    12.8
                C:63051 HENNING4 230 63331 FERGSFL4 230 1    2055
                  Open 63051 HENNING4 230 63331 FERGSFL4 230 1                          -0.00506 -0.01090  -199.4  -183.9
1430  -1419.4 L:60264 LOON LK7 115 61976 LOON LK869.0 1          81.1    75.0  0.00433          0.00538    79.0    71.4
                C:61950 BYRON  3 345 63032 PL VLLY3 345 1    3377
                  Open 61950 BYRON  3 345 63032 PL VLLY3 345 1                          -0.01246  0.08460  -170.0  -290.1
1431  -1393.8 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         146.5   144.0  0.00183          0.00232   143.5   140.3
                C:60290 ST LAKE5 161 69561 WASHCO 5 161 1    2999
                  Open 60290 ST LAKE5 161 69561 WASHCO 5 161 1                          -0.46946  0.00105    -6.5    -8.0
1432  -1387.7 L:34014 ADAMS  5 161 69547 ROCHSTR5 161 1         205.9   201.0  0.00352         -0.00309    97.7   102.0
                C:61906 MAPLE LF 161 61948 BYRON  5 161 1    3374
                  Open 61906 MAPLE LF 161 61948 BYRON  5 161 1                          -0.55184 -0.01198  -196.1  -179.4
1433  -1383.3 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -68.5   -66.0 -0.00179         -0.00166   -66.5   -64.2
                C:60110 WILMART7 115 60194 CARVRCO7 115 1     964
                  Open 60110 WILMART7 115 60194 CARVRCO7 115 1                          -0.01435  0.00886   136.3   124.1
1436  -1358.5 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          20.0    19.3  0.00053          0.00055    31.8    31.1
                C:60162 WAKEFLD7 115 60717 WAKEFLD869.0 1    1080
                  Open 60162 WAKEFLD7 115 60717 WAKEFLD869.0 1                          -0.22706  0.00009    52.0    51.9
1437  -1344.2 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -64.7   -58.0 -0.00500         -0.00273   -56.6   -52.9
                C:34048 ANITA  5 161 34524 ANITA  Y 161 1     111
                  Open 34048 ANITA  5 161 34524 ANITA  Y 161 1                          -0.57650  0.00393    14.0     8.8
1438  -1344.2 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -64.7   -58.0 -0.00500         -0.00273   -56.6   -52.9
                C:34064 ANITA  869.0 34524 ANITA  Y 161 1     141
                  Open 34064 ANITA  869.0 34524 ANITA  Y 161 1                           0.57650 -0.00393   -14.0    -8.8
1440  -1336.8 L:60756 ALBANY 869.0 62838 FARMING869.0 1         -28.6   -27.6 -0.00071         -0.00055   -24.8   -24.1
                C:60717 WAKEFLD869.0 62846 FRHV TP869.0 1    3083
                  Open 60717 WAKEFLD869.0 62846 FRHV TP869.0 1                          -0.12316  0.00132    30.5    28.7
1441  -1336.5 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -50.7   -48.0 -0.00201         -0.00216   -51.9   -49.1
                C:60108 WILMART3 345 60110 WILMART7 115 1     956
                  Open 60108 WILMART3 345 60110 WILMART7 115 1                           0.01115  0.01312   112.2    94.7
1442  -1335.3 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -50.4   -48.0 -0.00181         -0.00216   -51.9   -49.1
                C:ASK-RRK/ECL3                              3645
                  Open 60186 AS KING3 345 60236 REDROCK3 345 1                          -0.00156 -0.01971    56.6    83.0
                  Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.00326  0.06345   376.0   291.3
                  Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.00157 -0.06709  -241.0  -151.4
1443  -1323.0 L:60208 EDINA  7 115 60263 EDEN PR7 115 1        -336.7  -318.0 -0.01411         -0.00290  -288.5  -284.7
                C:700    1                                  3740
                  Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                           0.12861 -0.03963    90.2   142.6
                  Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.18623  0.04835   323.7   259.7
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                Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                          0.05561  0.05191     9.8   -58.8
1444  -1322.7 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         146.5   144.0  0.00189          0.00232   143.5   140.4
              C:60361 ROCKCR 4 230 61580 BEARCK 4 230 1    3038
                Open 60361 ROCKCR 4 230 61580 BEARCK 4 230 1                         -0.05915  0.00724   -50.8   -60.3
1445  -1321.5 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -50.9   -48.0 -0.00216         -0.00216   -51.9   -49.1
              C:60803 MIESTAP869.0 62238 MIESVIL869.0 1    3150
                Open 60803 MIESTAP869.0 62238 MIESVIL869.0 1                          0.06521 -0.00008    16.6    16.7
1446  -1317.8 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          15.4    13.7  0.00126          0.00090    14.0    12.9
              C:009   8                                    3705
                Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                         -0.01013 -0.01571   221.8   242.5
                Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                         -0.00202  0.00781   476.3   466.0
                Open 60202 COON CK3 345 60272 MPLEGV23 345 1                         -0.00587  0.00000     4.2     4.2
                Open 60202 COON CK3 345 63030 DICKNSN3 345 1                         -0.01261 -0.01744  -365.9  -342.9
                Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                         -0.00017 -0.00157   390.0   392.0
                Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                         -0.00571  0.00000     0.2     0.2
                Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1     NA
1447  -1315.3 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -50.6   -48.0 -0.00200         -0.00216   -51.9   -49.1
              C:60108 WILMART3 345 60110 WILMART7 115 2     957
                Open 60108 WILMART3 345 60110 WILMART7 115 2                          0.01135  0.01343   114.7    97.0
1448  -1312.0 L:60809 SJA SWS869.0 62805 STJAMES869.0 1         -38.1   -36.0 -0.00162         -0.00284   -33.5   -29.8
              C:34231 MT LAKE869.0 60935 BUTRFLD869.0 1     384
                Open 34231 MT LAKE869.0 60935 BUTRFLD869.0 1                          0.35456  0.00344   -13.0   -17.5
1449  -1308.4 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -50.9   -48.0 -0.00221         -0.00216   -51.9   -49.1
              C:60802 CANFLS 869.0 62390 SCANNON869.0 1    3149
                Open 60802 CANFLS 869.0 62390 SCANNON869.0 1                          0.17316 -0.00031     6.0     6.4
1450  -1306.0 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -20.4   -19.3 -0.00085         -0.00094   -16.3   -15.1
              C:34299 WASECAJ869.0 62876 FRLK TP869.0 1     474
                Open 34299 WASECAJ869.0 62876 FRLK TP869.0 1                         -0.27659 -0.00032    14.9    15.3
1451  -1286.5 L:60264 LOON LK7 115 61976 LOON LK869.0 1          81.3    75.0  0.00487          0.00538    79.0    72.1
              C:34298 MEDFRDJ869.0 61968 OWATANA269.0 1     471
                Open 34298 MEDFRDJ869.0 61968 OWATANA269.0 1                         -0.23588  0.00218    -9.5   -12.3
1452  -1282.2 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         242.4   181.0  0.04785          0.04428   218.7   161.9
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                         -0.02554 -0.13974  -926.4  -747.2
1453  -1279.9 L:60264 LOON LK7 115 61976 LOON LK869.0 1          81.9    75.0  0.00538          0.00538    79.0    72.1
              C:34300 MONTGMY869.0 34310 MONTGG1913.8 1    2837
                Open 34300 MONTGMY869.0 34310 MONTGG1913.8 1                         -0.13637  0.00000   -21.0   -21.0
1454  -1279.3 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -50.6   -48.0 -0.00200         -0.00216   -51.9   -49.2
              C:60113 DOME   7 115 60830 EASTWD18 115 P1    972
                Open 60113 DOME   7 115 60830 EASTWD18 115 P1                          0.01532  0.01053    90.4    77.0
1455  -1277.7 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -63.5   -58.0 -0.00428         -0.00273   -56.6   -53.1
              C:34654 ECRESTP869.0 66569 CRESTON869.0 1     752
                Open 34654 ECRESTP869.0 66569 CRESTON869.0 1                          0.97751 -0.00158    -7.0    -5.0
1456  -1277.2 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -63.5   -58.0 -0.00428         -0.00273   -56.6   -53.1
              C:34653 CRESTN8_69.0 34654 ECRESTP869.0 1     751
                Open 34653 CRESTN8_69.0 34654 ECRESTP869.0 1                          0.97751 -0.00158    -7.0    -5.0
1457  -1276.1 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -14.5   -13.7 -0.00066         -0.00090   -18.3   -17.1
              C:62981 MCLEOD 7 115 62983 HUTCH3M7 115 1    2025
                Open 62981 MCLEOD 7 115 62983 HUTCH3M7 115 1                          0.05924  0.00402    62.8    57.7
1458  -1275.9 L:60809 SJA SWS869.0 60709 STJMSMU869.0 1          38.1    36.0  0.00162          0.00284    33.5    29.8
              C:34231 MT LAKE869.0 60935 BUTRFLD869.0 1     384
                Open 34231 MT LAKE869.0 60935 BUTRFLD869.0 1                         -0.35456  0.00344   -13.0   -17.4
1459  -1275.2 L:34059 BOONE  7 115 34076 BNE JCT7 115 1         -64.5   -60.0 -0.00350          0.00401   -49.4   -54.5
              C:34054 GR JCT 5 161 63771 DRAGER 5 161 1    2751
                Open 34054 GR JCT 5 161 63771 DRAGER 5 161 1                          0.20314 -0.03698   -74.1   -27.0
1460  -1271.6 L:60264 LOON LK7 115 61976 LOON LK869.0 1          82.0    75.0  0.00548          0.00538    79.0    72.2
              C:705       1                                3742
                Open 60192 BLUE LK3 345 60233 PARKERS3 345 1                          0.00390  0.01268   140.3   124.2
                Open 60192 BLUE LK3 345 60262 EDEN PR3 345 1                          0.00399  0.01321   562.3   545.5
                Open 60262 EDEN PR3 345 60263 EDEN PR7 115 1                          0.00046  0.00057   342.4   341.7
1461  -1270.8 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -50.9   -48.0 -0.00228         -0.00216   -51.9   -49.2
              C:60104 CANNFLS7 115 62235 EMPIRE 7 115 1    2938
                Open 60104 CANNFLS7 115 62235 EMPIRE 7 115 1                          0.06241 -0.00193    16.7    19.2
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1463  -1265.7 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -50.7   -48.0 -0.00216         -0.00216   -51.9   -49.2
              C:815                                        3772
                Open 62225 BURNVIL7 115 62226 FISCHER7 115 1                          -0.00275  0.00202   -13.9   -16.5
                Open 60343 WILLPIP7 115 62226 FISCHER7 115 1     NA
                Open 60343 WILLPIP7 115 62228 APPVLTW7 115 1     NA
                Open 62227 JOHNCAK7 115 62228 APPVLTW7 115 1                           0.01540  0.00000    75.5    75.5
1464  -1263.6 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -50.5   -48.0 -0.00200         -0.00216   -51.9   -49.2
              C:60110 WILMART7 115 60113 DOME   7 115 C1    963
                Open 60110 WILMART7 115 60113 DOME   7 115 C1                           0.01532  0.01053    92.5    79.2
1465  -1259.0 L:60938 FTRIDGL869.0 62077 SCHLTP 869.0 1          39.5    37.0  0.00199          0.00152    33.3    31.4
              C:62980 MCLEOD 4 230 63054 PANTHER4 230 1    3396
                Open 62980 MCLEOD 4 230 63054 PANTHER4 230 1                          -0.02762 -0.01700  -223.7  -202.3
1467  -1251.4 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -246.9  -181.0 -0.05270         -0.04428  -200.5  -145.1
              C:34016 EMERY  5 161 64252 FLOYD  5 161 1    2722
                Open 34016 EMERY  5 161 64252 FLOYD  5 161 1                          -0.24680  0.03409   188.3   145.6
1468  -1251.2 L:60264 LOON LK7 115 61976 LOON LK869.0 1          81.9    75.0  0.00548          0.00538    79.0    72.3
              C:BLL-EDP/PKL3                               3640
                Open 60192 BLUE LK3 345 60262 EDEN PR3 345 1                           0.00406  0.01321   562.3   545.8
                Open 60192 BLUE LK3 345 60233 PARKERS3 345 1                           0.00395  0.01268   140.3   124.4
1469  -1244.7 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -68.1   -66.0 -0.00171         -0.00166   -66.5   -64.4
              C:705       1                                3742
                Open 60192 BLUE LK3 345 60233 PARKERS3 345 1                          -0.00209  0.01268   140.3   124.5
                Open 60192 BLUE LK3 345 60262 EDEN PR3 345 1                          -0.00215  0.01321   562.3   545.9
                Open 60262 EDEN PR3 345 60263 EDEN PR7 115 1                          -0.00034  0.00057   342.4   341.7
1470  -1237.2 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          39.5    36.0  0.00284          0.00284    37.3    33.8
              C:60002 SHERC33G26.0 60160 SHERCO 3 345 1    2895
                Open 60002 SHERC33G26.0 60160 SHERCO 3 345 1                          -0.00249  0.00000  -868.0  -868.0
1471  -1236.2 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -68.2   -66.0 -0.00176         -0.00166   -66.5   -64.5
              C:61906 MAPLE LF 161 61948 BYRON  5 161 1    3374
                Open 61906 MAPLE LF 161 61948 BYRON  5 161 1                           0.00848 -0.01198  -196.1  -181.2
1472  -1232.5 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         230.9   181.0  0.04048          0.04428   218.7   164.1
              C:34087 DYSART 5 161 64269 WASHBRN5 161 1    2775
                Open 34087 DYSART 5 161 64269 WASHBRN5 161 1                           0.17382 -0.02187    70.2    97.1
1473  -1228.3 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -50.6   -48.0 -0.00209         -0.00216   -51.9   -49.3
              C:60897 LEBNON 869.0 60905 FRMNGTN869.0 1    1532
                Open 60897 LEBNON 869.0 60905 FRMNGTN869.0 1                          -0.12574 -0.00055   -10.9   -10.2
1474  -1226.1 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         220.7   181.0  0.03238          0.04428   218.7   164.4
              C:34093 ARNOLD 3 345 64352 TIFFIN 3 345 1    2780
                Open 34093 ARNOLD 3 345 64352 TIFFIN 3 345 1                          -0.05593  0.21292   -35.7  -296.7
1476  -1218.1 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -14.8   -13.7 -0.00091         -0.00090   -18.3   -17.2
              C:62982 HUTCHMN7 115 62986 HUTCHMN869.0 1    2027
                Open 62982 HUTCHMN7 115 62986 HUTCHMN869.0 1                           0.15145 -0.00010    22.8    22.9
1477  -1215.3 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -21.0   -19.3 -0.00136         -0.00094   -16.3   -15.2
              C:SCO-SSK/CAR7                               3678
                Open 60244 SCOTTCO7 115 62975 SHAKOPE7 115 1                           0.03684  0.00055    21.4    20.7
                Open 60243 SCOTTAP7 115 60244 SCOTTCO7 115 1                          -0.03676  0.00158    27.4    25.5
                Open 60194 CARVRCO7 115 60243 SCOTTAP7 115 1                          -0.07394  0.00514    60.0    53.8
                Open 60243 SCOTTAP7 115 62666 GLNDALE7 115 1                           0.00226  0.00000     1.2     1.2
1478  -1210.2 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -50.3   -48.0 -0.00188         -0.00216   -51.9   -49.3
              C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.00444  0.06345   376.0   299.2
1479  -1196.2 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -68.1   -66.0 -0.00171         -0.00166   -66.5   -64.5
              C:BLL-EDP/PKL3                               3640
                Open 60192 BLUE LK3 345 60262 EDEN PR3 345 1                          -0.00220  0.01321   562.3   546.5
                Open 60192 BLUE LK3 345 60233 PARKERS3 345 1                          -0.00212  0.01268   140.3   125.1
1480  -1193.4 L:60756 ALBANY 869.0 62838 FARMING869.0 1         -28.4   -27.6 -0.00064         -0.00055   -24.8   -24.1
              C:63219 GRANTCO7 115 63220 ELBOWLK7 115 1    2101
                Open 63219 GRANTCO7 115 63220 ELBOWLK7 115 1                          -0.03178  0.00296   112.3   108.8
1481  -1191.0 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          40.2    36.0  0.00351          0.00284    37.3    34.0
              C:61934 RUTLAND 69.0 61942 10TH STR69.0 1    1694
                Open 61934 RUTLAND 69.0 61942 10TH STR69.0 1                          -0.17463 -0.00381   -16.2   -11.6
1482  -1183.3 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -50.1   -48.0 -0.00181         -0.00216   -51.9   -49.4
              C:050    1                                   3718
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                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00378  0.06345   376.0   300.9
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.00157 -0.06709  -241.0  -161.6
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                         -0.00000 -0.00187    64.8    67.0
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                          0.00021 -0.00300     0.0     3.6
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                          0.00030 -0.00148   -22.1   -20.3
1483  -1183.0 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         235.6   181.0  0.04615          0.04428   218.7   166.3
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          0.01647  0.11319  1025.6   891.7
1484  -1181.1 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -67.9   -66.0 -0.00164         -0.00166   -66.5   -64.6
              C:60218 INVRHLS7 115 60223 KOCHREF7 115 1    1200
                Open 60218 INVRHLS7 115 60223 KOCHREF7 115 1                         -0.00687 -0.00190   208.2   210.5
1485  -1179.3 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -50.1   -48.0 -0.00181         -0.00216   -51.9   -49.4
              C:050    2                                   3719
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00377  0.06345   376.0   301.1
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.00159 -0.06709  -241.0  -161.8
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                         -0.00000 -0.00187    64.8    67.0
1488  -1177.8 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          40.8    36.0  0.00404          0.00284    37.3    34.0
              C:34240 DOTSON 869.0 62065 DOTSON 869.0 1     393
                Open 34240 DOTSON 869.0 62065 DOTSON 869.0 1                          0.52185  0.00229     6.5     3.8
1489  -1174.9 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         221.8   181.0  0.03469          0.04428   218.7   166.7
              C:34018 HAZLTON3 345 34093 ARNOLD 3 345 1      55
                Open 34018 HAZLTON3 345 34093 ARNOLD 3 345 1                         -0.05293  0.18131   -57.7  -270.7
1490  -1168.1 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         235.2   181.0  0.04638          0.04428   218.7   167.0
              C:34015 LIME CK5 161 34016 EMERY  5 161 1      46
                Open 34015 LIME CK5 161 34016 EMERY  5 161 1                         -0.06507 -0.03224  -253.3  -215.6
1491  -1155.6 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         235.4   181.0  0.04707          0.04428   218.7   167.5
              C:34072 FRNKLIN7 115 34571 FRNKLN_Y 161 1     156
                Open 34072 FRNKLIN7 115 34571 FRNKLN_Y 161 1                         -0.22419 -0.01241   -74.4   -60.1
1492  -1155.6 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         235.4   181.0  0.04707          0.04428   218.7   167.5
              C:34571 FRNKLN_Y 161 64239 FRANKLN5 161 1    2859
                Open 34571 FRNKLN_Y 161 64239 FRANKLN5 161 1                         -0.22419 -0.01241   -74.4   -60.1
1493  -1155.6 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         235.4   181.0  0.04707          0.04428   218.7   167.5
              C:34072 FRNKLIN7 115 34077 IA FALS7 115 1     155
                Open 34072 FRNKLIN7 115 34077 IA FALS7 115 1                          0.22419  0.01241    74.4    60.1
1494  -1152.8 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -67.9   -66.0 -0.00166         -0.00166   -66.5   -64.6
              C:60014 BLK D74G18.0 60200 BLK DG27 115 1    2907
                Open 60014 BLK D74G18.0 60200 BLK DG27 115 1                          0.00815  0.00000  -171.7  -171.7
1495  -1147.4 L:60809 SJA SWS869.0 62805 STJAMES869.0 1         -39.4   -36.0 -0.00296         -0.00284   -33.5   -30.3
              C:34230 COMFREY869.0 34281 MTLAKET869.0 1     381
                Open 34230 COMFREY869.0 34281 MTLAKET869.0 1                          0.40950 -0.00029   -14.4   -14.0
1496  -1147.0 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          86.8    80.0  0.00593          0.00593    78.9    72.1
              C:34146 OTTUMW1G24.0 34189 OTTUMWA5 161 1    2812
                Open 34146 OTTUMW1G24.0 34189 OTTUMWA5 161 1                         -0.01691  0.00000  -466.3  -466.3
1497  -1146.3 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -69.3   -66.0 -0.00287         -0.00166   -66.5   -64.6
              C:61948 BYRON  5 161 61964 OWATNNA5 161 1    1698
                Open 61948 BYRON  5 161 61964 OWATNNA5 161 1                          0.05968 -0.02026   -46.5   -23.2
1498  -1132.7 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          15.2    13.7  0.00132          0.00090    14.0    13.0
              C:60712 ANNDALE869.0 60765 MAPLELK869.0 1    1413
                Open 60712 ANNDALE869.0 60765 MAPLELK869.0 1                          0.32182  0.00132     3.6     2.1
1499  -1128.8 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         146.6   144.0  0.00228          0.00232   143.5   140.9
              C:60295 BAYFRNT7 115 60657 BAYFRT8888.0 1    1304
                Open 60295 BAYFRNT7 115 60657 BAYFRT8888.0 1                         -0.10938  0.00036   -28.1   -28.5
1500  -1127.6 L:60809 SJA SWS869.0 60709 STJMSMU869.0 1          39.3    36.0  0.00296          0.00284    33.5    30.2
              C:34230 COMFREY869.0 34281 MTLAKET869.0 1     381
                Open 34230 COMFREY869.0 34281 MTLAKET869.0 1                         -0.40950 -0.00029   -14.4   -14.0
1501  -1122.0 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         146.6   144.0  0.00232          0.00232   143.5   140.9
              C:60317 WHEATON5 161 61481 WHT TR1Y 161 1    1345
                Open 60317 WHEATON5 161 61481 WHT TR1Y 161 1                         -0.02630  0.00000  -118.0  -118.0
1502  -1121.4 L:60805 WATRVIL869.0 62679 ELYSNTP869.0 1         -43.7   -37.0 -0.00594         -0.00315   -18.4   -14.9
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                         -0.02464  0.11319  1025.6   898.7
1503  -1115.7 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -67.7   -66.0 -0.00154         -0.00166   -66.5   -64.7
              C:60982 ALMA   869.0 68874 ALMA 8  69.0 1    3254
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                Open 60982 ALMA   869.0 68874 ALMA 8  69.0 1                          0.03361  0.00359   -35.8   -39.8
1504  -1109.7 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -69.2   -66.0 -0.00287         -0.00166   -66.5   -64.7
              C:BYN-WOW/KAN5                                 3656
                Open 61948 BYRON  5 161 61964 OWATNNA5 161 1                          0.05968 -0.02026   -46.5   -24.0
                Open 60799 KASSON 869.0 61161 BYRON  869.0 1                          0.00290  0.00000    36.1    36.1
1505  -1104.8 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -337.3  -318.0 -0.01751         -0.01397  -262.1  -246.7
              C:500                                          3721
                Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                          0.34386 -0.01028  -223.5  -212.1
                Open 62427 WILLMAR869.0 63050 WILLMAR4 230 1                         -0.03441  0.00004   -47.0   -47.0
1506  -1104.7 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         229.9   181.0  0.04428          0.04428   218.7   169.8
              C:34090 ARNOLD1G22.0 34091 ARNOLD 5 161 1    2777
                Open 34090 ARNOLD1G22.0 34091 ARNOLD 5 161 1                         -0.03041  0.00000  -369.0  -369.0
1507  -1099.6 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          39.1    36.0  0.00284          0.00284    37.3    34.2
              C:60001 SHERC32G24.0 60160 SHERCO 3 345 1    2894
                Open 60001 SHERC32G24.0 60160 SHERCO 3 345 1                         -0.00249  0.00000  -711.4  -711.4
1508  -1098.2 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          39.1    36.0  0.00284          0.00284    37.3    34.2
              C:60000 SHERC31G24.0 60160 SHERCO 3 345 1    2893
                Open 60000 SHERC31G24.0 60160 SHERCO 3 345 1                         -0.00249  0.00000  -709.8  -709.8
1510  -1087.7 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -49.1   -48.0 -0.00106         -0.00216   -51.9   -49.6
              C:34006 LAKEFLD3 345 60331 LKFLDXL3 345 1      21
                Open 34006 LAKEFLD3 345 60331 LKFLDXL3 345 1                          0.00802  0.13721   347.7   198.4
1511  -1085.2 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          39.1    36.0  0.00284          0.00284    37.3    34.3
              C:61936 FAIRMONT69.0 61942 10TH STR69.0 2    1695
                Open 61936 FAIRMONT69.0 61942 10TH STR69.0 2                         -0.05383  0.00000   -32.2   -32.2
1512  -1066.9 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -67.6   -66.0 -0.00154         -0.00166   -66.5   -64.7
              C:60982 ALMA   869.0 60983 NELSON 869.0 1    1587
                Open 60982 ALMA   869.0 60983 NELSON 869.0 1                         -0.03361 -0.00359    33.5    37.4
1513  -1060.7 L:60809 SJA SWS869.0 62805 STJAMES869.0 1         -39.5   -36.0 -0.00331         -0.00284   -33.5   -30.5
              C:34248 TRUMANM869.0 34280 TRUMANT869.0 1     402
                Open 34248 TRUMANM869.0 34280 TRUMANT869.0 1                          0.50244 -0.00093   -11.9   -10.9
1514  -1060.7 L:60809 SJA SWS869.0 62805 STJAMES869.0 1         -39.5   -36.0 -0.00331         -0.00284   -33.5   -30.5
              C:34248 TRUMANM869.0 34249 TRUMAN 869.0 1     401
                Open 34248 TRUMANM869.0 34249 TRUMAN 869.0 1                         -0.50244  0.00093    11.9    10.9
1515  -1058.6 L:63327 HANKSON4 230 63329 WAHPETN4 230 1         332.2   320.0  0.01155          0.01075   257.3   246.0
              C:63369 JAMESTN3 345 66791 CENTER 3 345 1    2201
                Open 63369 JAMESTN3 345 66791 CENTER 3 345 1                         -0.16957 -0.00471  -441.7  -436.7
1516  -1051.6 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -14.6   -13.7 -0.00082         -0.00090   -18.3   -17.3
              C:CNC-SHC/BUL3                                 3635
                Open 60160 SHERCO 3 345 60202 COON CK3 345 1                          0.00388  0.00770   469.4   461.3
                Open 60202 COON CK3 345 63031 BUNKER 3 345 1                         -0.00627 -0.00793  -300.1  -291.7
1517  -1050.7 L:60831 EASTWD2869.0 62347 EAGLELK869.0 1          77.7    72.0  0.00543          0.00322    61.5    58.1
              C:60265 LOON TP7 115 60830 EASTWD18 115 P1   1276
                Open 60265 LOON TP7 115 60830 EASTWD18 115 P1                        -0.08639 -0.02554  -187.3  -160.4
1518  -1043.0 L:60809 SJA SWS869.0 60709 STJMSMU869.0 1          39.4    36.0  0.00331          0.00284    33.5    30.5
              C:34248 TRUMANM869.0 34280 TRUMANT869.0 1     402
                Open 34248 TRUMANM869.0 34280 TRUMANT869.0 1                         -0.50244 -0.00093   -11.9   -11.0
1519  -1042.9 L:60809 SJA SWS869.0 60709 STJMSMU869.0 1          39.4    36.0  0.00331          0.00284    33.5    30.5
              C:34248 TRUMANM869.0 34249 TRUMAN 869.0 1     401
                Open 34248 TRUMANM869.0 34249 TRUMAN 869.0 1                          0.50244  0.00093    11.9    11.0
1520  -1042.4 L:34061 BNE JCT5 161 34076 BNE JCT7 115 2          70.5    60.0  0.01003          0.00666    46.8    39.8
              C:34061 BNE JCT5 161 34076 BNE JCT7 115 3     138
                Open 34061 BNE JCT5 161 34076 BNE JCT7 115 3                          0.76556  0.00441    31.0    26.4
1521  -1035.8 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         230.5   181.0  0.04783          0.04428   218.7   172.8
              C:34079 TRAER  5 161 34087 DYSART 5 161 1     163
                Open 34079 TRAER  5 161 34087 DYSART 5 161 1                          0.13930  0.02549    85.1    58.7
1522  -1030.4 L:60264 LOON LK7 115 61976 LOON LK869.0 1          80.5    75.0  0.00533          0.00538    79.0    73.5
              C:34014 ADAMS  5 161 69547 ROCHSTR5 161 1    2721
                Open 34014 ADAMS  5 161 69547 ROCHSTR5 161 1                          0.01508 -0.00309    97.7   100.9
1523  -1029.3 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          40.2    36.0  0.00404          0.00284    37.3    34.4
              C:62065 DOTSON 869.0 62066 LVNWRTH869.0 1    1722
                Open 62065 DOTSON 869.0 62066 LVNWRTH869.0 1                          0.52185  0.00229     5.4     3.0
1525  -1019.0 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -335.7  -318.0 -0.01735         -0.01397  -262.1  -247.9
              C:63050 WILLMAR4 230 66550 GRANITF4 230 1    2053
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                Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                          0.32922 -0.01028  -223.5  -213.0
1526  -1013.8 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         228.7   181.0  0.04707          0.04428   218.7   173.8
               C:34075 ELDORA 7 115 34077 IA FALS7 115 1     160
                Open 34075 ELDORA 7 115 34077 IA FALS7 115 1                         -0.22419 -0.01241   -44.7   -32.1
1527  -1012.9 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         227.8   181.0  0.04625          0.04428   218.7   173.8
               C:34068 M-TOWN 5 161 34079 TRAER  5 161 1     151
                Open 34068 M-TOWN 5 161 34079 TRAER  5 161 1                          0.10878  0.01809    84.1    65.8
1528  -1011.5 L:60264 LOON LK7 115 61976 LOON LK869.0 1           81.1    75.0  0.00604          0.00538    79.0    73.6
               C:34010 HAYWARD5 161 34013 WNBAGOS5 161 1      33
                Open 34010 HAYWARD5 161 34013 WNBAGOS5 161 1                         -0.01957 -0.03349  -106.4   -72.6
1529  -1001.5 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -67.9   -66.0 -0.00186         -0.00166   -66.5   -64.9
               C:60192 BLUE LK3 345 60217 INVRHLS3 345 1    1126
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.00417  0.04835   323.7   275.3
1531   -994.4 L:60934 WATOWAN869.0 62805 STJAMES869.0 1           38.8    36.0  0.00284          0.00284    37.3    34.5
               C:60005 MNTCE31G22.0 60151 MNTCELO3 345 1    2898
                Open 60005 MNTCE31G22.0 60151 MNTCELO3 345 1                         -0.00251  0.00000  -588.5  -588.5
1532   -993.8 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         226.5   181.0  0.04580          0.04428   218.7   174.7
               C:34014 ADAMS  5 161 34015 LIME CK5 161 1      42
                Open 34014 ADAMS  5 161 34015 LIME CK5 161 1                         -0.05381 -0.02812  -145.2  -117.3
1533   -991.2 L:60148 MINVALY7 115 60357 MAYNARD7 115 1           81.0    78.0  0.00305          0.00140    45.1    43.7
               C:63050 WILLMAR4 230 66550 GRANITF4 230 1    2053
                Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                         -0.16059 -0.01028  -223.5  -213.3
1534   -980.0 L:60809 SJA SWS869.0 62805 STJAMES869.0 1         -38.9   -36.0 -0.00296         -0.00284   -33.5   -30.7
               C:34230 COMFREY869.0 34240 DOTSON 869.0 1     380
                Open 34230 COMFREY869.0 34240 DOTSON 869.0 1                         -0.40950  0.00029    13.2    12.9
1535   -978.8 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         223.2   181.0  0.04309          0.04428   218.7   175.4
               C:34018 HAZLTON3 345 34020 HAZL S 5 161 2      54
                Open 34018 HAZLTON3 345 34020 HAZL S 5 161 2                          0.05153 -0.02325    86.8   109.6
1536   -978.5 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         146.3   144.0  0.00233          0.00232   143.5   141.2
               C:835                                        3776
                Open 60282 REDCDR 5 161 60319 WHEATTP5 161 1                          0.02479  0.00685     1.7    -5.0
                Open 60318 WHEATON5 161 60319 WHEATTP5 161 1                          0.02970 -0.00540    92.2    97.5
                Open 60319 WHEATTP5 161 60320 HYDROLN5 161 1                         -0.04929  0.00000     0.0     0.0
1537   -977.1 L:60934 WATOWAN869.0 62805 STJAMES869.0 1           38.8    36.0  0.00284          0.00284    37.3    34.6
               C:60003 PR IS31G20.0 60105 PR ISLD3 345 1    2896
                Open 60003 PR IS31G20.0 60105 PR ISLD3 345 1                         -0.00268  0.00000  -531.4  -531.4
1538   -975.2 L:60934 WATOWAN869.0 62805 STJAMES869.0 1           38.8    36.0  0.00284          0.00284    37.3    34.6
               C:60006 KING 31G20.0 60186 AS KING3 345 1    2899
                Open 60006 KING 31G20.0 60186 AS KING3 345 1                         -0.00246  0.00000  -576.7  -576.7
1539   -968.7 L:60264 LOON LK7 115 61976 LOON LK869.0 1           80.2    75.0  0.00538          0.00538    79.0    73.8
               C:63007 PVS  52G16.0 63070 PL VLLY5 161 1    3402
                Open 63007 PVS  52G16.0 63070 PL VLLY5 161 1                         -0.00769  0.00000  -154.7  -154.7
1540   -966.3 L:60264 LOON LK7 115 61976 LOON LK869.0 1           80.3    75.0  0.00544          0.00538    79.0    73.8
               C:60826 TRAVRSE869.0 62350 TRAVERS869.0 1    3177
                Open 60826 TRAVRSE869.0 62350 TRAVERS869.0 1                          0.02186  0.00249    56.2    53.8
1542   -964.8 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         226.8   181.0  0.04749          0.04428   218.7   176.0
               C:34006 LAKEFLD3 345 60331 LKFLDXL3 345 1      21
                Open 34006 LAKEFLD3 345 60331 LKFLDXL3 345 1                          0.02336  0.13721   347.7   215.3
1543   -964.5 L:60264 LOON LK7 115 61976 LOON LK869.0 1           80.2    75.0  0.00541          0.00538    79.0    73.8
               C:60110 WILMART7 115 60111 BODE   7 115 1     962
                Open 60110 WILMART7 115 60111 BODE   7 115 1                          0.02145  0.00121    55.6    54.4
1544   -963.9 L:60934 WATOWAN869.0 62805 STJAMES869.0 1           38.7    36.0  0.00284          0.00284    37.3    34.6
               C:60004 PR IS32G20.0 60105 PR ISLD3 345 1    2897
                Open 60004 PR IS32G20.0 60105 PR ISLD3 345 1                         -0.00268  0.00000  -517.4  -517.4
1545   -961.2 L:60148 MINVALY7 115 60149 MINVALT4 230 C1        199.1   187.0  0.01263          0.00290    16.5    13.7
               C:60150 MNVLTAP4 230 66550 GRANITF4 230 1    1056
                Open 60150 MNVLTAP4 230 66550 GRANITF4 230 1                         -0.69701 -0.01397  -262.1  -248.7
1546   -960.8 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         226.2   181.0  0.04707          0.04428   218.7   176.2
               C:34075 ELDORA 7 115 34169 WELSBGT7 115 1     161
                Open 34075 ELDORA 7 115 34169 WELSBGT7 115 1                          0.22419  0.01241    33.6    21.6
1547   -960.2 L:60809 SJA SWS869.0 60709 STJMSMU869.0 1           38.8    36.0  0.00296          0.00284    33.5    30.7
               C:34230 COMFREY869.0 34240 DOTSON 869.0 1     380
                Open 34230 COMFREY869.0 34240 DOTSON 869.0 1                          0.40950  0.00029    13.2    12.9
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1548   -959.6 L:60264 LOON LK7 115 61976 LOON LK869.0 1          80.2    75.0  0.00541          0.00538    79.0    73.9
               C:60650 WILMART869.0 62336 JHNSNTP869.0 1    3043
                 Open 60650 WILMART869.0 62336 JHNSNTP869.0 1                          0.01181  0.00242    98.9    96.6
1549   -955.4 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -50.1   -48.0 -0.00221         -0.00216   -51.9   -49.9
               C:60801 CNFLSTR869.0 60802 CANFLS 869.0 1    1473
                 Open 60801 CNFLSTR869.0 60802 CANFLS 869.0 1                          0.17316 -0.00031    10.5    10.8
1550   -952.7 L:60264 LOON LK7 115 61976 LOON LK869.0 1          80.2    75.0  0.00544          0.00538    79.0    73.9
               C:63032 PL VLLY3 345 63070 PL VLLY5 161 1    3404
                 Open 63032 PL VLLY3 345 63070 PL VLLY5 161 1                         -0.00461 -0.01250  -251.5  -239.6
1551   -951.9 L:60264 LOON LK7 115 61976 LOON LK869.0 1          80.1    75.0  0.00538          0.00538    79.0    73.9
               C:60193 BLUE LK7 115 60215 HYLNDLK7 115 1    1129
                 Open 60193 BLUE LK7 115 60215 HYLNDLK7 115 1                          0.00555 -0.00068   197.5   198.1
1552   -949.9 L:60264 LOON LK7 115 61976 LOON LK869.0 1          80.2    75.0  0.00544          0.00538    79.0    73.9
               C:CNC-KOL/TER3                               3636
                 Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          0.00147  0.02473   273.5   250.0
                 Open 60202 COON CK3 345 60251 TERMINL3 345 1                          0.00136  0.01927   549.2   530.9
1553   -949.7 L:60264 LOON LK7 115 61976 LOON LK869.0 1          80.2    75.0  0.00546          0.00538    79.0    73.9
               C:ASK-RRK/ECL3                               3645
                 Open 60186 AS KING3 345 60236 REDROCK3 345 1                          0.00102 -0.01971    56.6    75.3
                 Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00502  0.06345   376.0   315.7
                 Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          0.00325 -0.06709  -241.0  -177.2
1554   -947.7 L:60264 LOON LK7 115 61976 LOON LK869.0 1          80.1    75.0  0.00541          0.00538    79.0    73.9
               C:60111 BODE   7 115 60112 FTRIDLY7 115 1     969
                 Open 60111 BODE   7 115 60112 FTRIDLY7 115 1                          0.02145  0.00121    51.3    50.2
1555   -943.0 L:60264 LOON LK7 115 61976 LOON LK869.0 1          80.3    75.0  0.00559          0.00538    79.0    73.9
               C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
                 Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00332  0.06345   376.0   316.1
1556   -942.9 L:60264 LOON LK7 115 61976 LOON LK869.0 1          80.2    75.0  0.00556          0.00538    79.0    73.9
               C:60192 BLUE LK3 345 60217 INVRHLS3 345 1    1126
                 Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          0.00378  0.04835   323.7   278.1
1557   -940.1 L:60264 LOON LK7 115 61976 LOON LK869.0 1          80.1    75.0  0.00538          0.00538    79.0    74.0
               C:63008 PVS  53G13.8 63070 PL VLLY5 161 1    3403
                 Open 63008 PVS  53G13.8 63070 PL VLLY5 161 1                         -0.00769  0.00000  -134.7  -134.7
1558   -938.6 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          38.8    36.0  0.00297          0.00284    37.3    34.7
               C:34225 HERONLK869.0 62801 SSTORDN869.0 1     372
                 Open 34225 HERONLK869.0 62801 SSTORDN869.0 1                          0.06466  0.00201    22.3    20.4
1559   -938.5 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         223.0   181.0  0.04472          0.04428   218.7   177.1
               C:34010 HAYWARD5 161 34015 LIME CK5 161 1      35
                 Open 34010 HAYWARD5 161 34015 LIME CK5 161 1                         -0.04187 -0.01032  -101.9   -92.2
1560   -937.4 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         222.1   181.0  0.04381          0.04428   218.7   177.2
               C:34036 ROCK CK3 345 36382 QUAD ;   345 1    2737
                 Open 34036 ROCK CK3 345 36382 QUAD ;   345 1                          -0.00876  0.05461  -384.1  -435.3
1561   -936.3 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          38.7    36.0  0.00284          0.00284    37.3    34.7
               C:60110 WILMART7 115  8007 G261-CT215.0 1    2943
                 Open 60110 WILMART7 115  8007 G261-CT215.0 1                          -0.00769  0.00000  -170.5  -170.5
1562   -936.3 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          38.7    36.0  0.00284          0.00284    37.3    34.7
               C:60110 WILMART7 115  8006 G261-CT115.0 1    2942
                 Open 60110 WILMART7 115  8006 G261-CT115.0 1                          -0.00769  0.00000  -170.5  -170.5
1563   -933.6 L:60264 LOON LK7 115 61976 LOON LK869.0 1          80.1    75.0  0.00545          0.00538    79.0    74.0
               C:022       3                                3707
                 Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                           0.00154  0.02473   273.5   250.4
                 Open 60202 COON CK3 345 60251 TERMINL3 345 1                           0.00144  0.01927   549.2   531.3
                 Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                          -0.00011  0.00023   225.9   225.7
                 Open 60251 TERMINL3 345 61491 TERMID2Y 345 1                          -0.00033 -0.00173   381.0   382.6
                 Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                           0.00030  0.00000     0.2     0.2
                 Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
1564   -931.5 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         222.2   181.0  0.04428          0.04428   218.7   177.4
               C:34021 LANSINGW 161 34024 LANS5 4G22.0 1    2730
                 Open 34021 LANSINGW 161 34024 LANS5 4G22.0 1                          -0.02178  0.00000  -163.0  -163.0
1565   -929.1 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -67.5   -66.0 -0.00166         -0.00166   -66.5   -65.0
               C:60218 INVRHLS7 115 61478 INV TR1Y 115 1    1202
                 Open 60218 INVRHLS7 115 61478 INV TR1Y 115 1                           0.00893  0.00000  -115.0  -115.0
1567   -926.9 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -67.6   -66.0 -0.00172         -0.00166   -66.5   -65.0
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                C:715       4                                 3751
                  Open 60243 SCOTTAP7 115 62666 GLNDALE7 115 1                          -0.01489  0.00356    31.4    28.1
                  Open 62666 GLNDALE7 115 62672 GLNDALE869.0 1                          -0.01425  0.00008    32.9    32.8
                  Open 60243 SCOTTAP7 115 60244 SCOTTCO7 115 1                          -0.00499  0.00158    27.4    25.9
                  Open 60194 CARVRCO7 115 60243 SCOTTAP7 115 1                          -0.00193  0.00000     1.2     1.2
                  Open 60194 CARVRCO7 115 60931 CARVRCO869.0 1                          -0.00017 -0.00021    30.7    30.8
1568   -926.4 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         224.2   181.0  0.04663          0.04428   218.7   177.7
                C:34061 BNE JCT5 161 64205 FT.DODG5 161 1    2759
                  Open 34061 BNE JCT5 161 64205 FT.DODG5 161 1                          -0.06139 -0.03824   -89.6   -54.2
1569   -925.5 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         146.2   144.0  0.00236          0.00232   143.5   141.4
                C:60319 WHEATTP5 161 60320 HYDROLN5 161 1    1350
                  Open 60319 WHEATTP5 161 60320 HYDROLN5 161 1                           0.02862  0.00145    93.9    92.5
1570   -925.4 L:60264 LOON LK7 115 61976 LOON LK869.0 1          80.1    75.0  0.00547          0.00538    79.0    74.0
                C:60126 SPLT RK3 345 60286 NOBLES 3 345 C1   1003
                  Open 60126 SPLT RK3 345 60286 NOBLES 3 345 C1                         -0.00503 -0.01796  -206.7  -190.1
1571   -923.9 L:60809 SJA SWS869.0 62805 STJAMES869.0 1         -39.1   -36.0 -0.00331         -0.00284   -33.5   -30.9
                C:34249 TRUMAN 869.0 62799 LWSVLTP869.0 1     403
                  Open 34249 TRUMAN 869.0 62799 LWSVLTP869.0 1                          -0.50244  0.00093    11.0    10.2
1572   -921.2 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         221.9   181.0  0.04445          0.04428   218.7   177.9
                C:63032 PL VLLY3 345 63070 PL VLLY5 161 1    3404
                  Open 63032 PL VLLY3 345 63070 PL VLLY5 161 1                          -0.01290 -0.01250  -251.5  -240.0
1573   -921.2 L:60264 LOON LK7 115 61976 LOON LK869.0 1          80.1    75.0  0.00552          0.00538    79.0    74.1
                C:34015 LIME CK5 161 34016 EMERY  5 161 1      46
                  Open 34015 LIME CK5 161 34016 EMERY  5 161 1                          -0.00418 -0.03224  -253.3  -223.6
1574   -921.2 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -342.0  -318.0 -0.02601         -0.01397  -262.1  -249.2
                C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                  Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                           0.08620 -0.13974  -926.4  -797.7
1575   -920.7 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -67.6   -66.0 -0.00170         -0.00166   -66.5   -65.0
                C:60826 TRAVRSE869.0 62350 TRAVERS869.0 1    3177
                  Open 60826 TRAVRSE869.0 62350 TRAVERS869.0 1                          -0.01879  0.00249    56.2    53.9
1576   -919.9 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         146.2   144.0  0.00236          0.00232   143.5   141.4
                C:60320 HYDROLN5 161 60321 HYDROLN7 115 1    1351
                  Open 60320 HYDROLN5 161 60321 HYDROLN7 115 1                           0.02862  0.00145    93.4    92.1
1577   -919.6 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         221.1   181.0  0.04363          0.04428   218.7   178.0
                C:34018 HAZLTON3 345 34019 HAZLTON5 161 1      53
                  Open 34018 HAZLTON3 345 34019 HAZLTON5 161 1                           0.04066 -0.01604    59.7    74.4
1578   -917.8 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -67.6   -66.0 -0.00174         -0.00166   -66.5   -65.0
                C:62980 MCLEOD 4 230 63054 PANTHER4 230 1    3396
                  Open 62980 MCLEOD 4 230 63054 PANTHER4 230 1                           0.00485 -0.01700  -223.7  -208.1
1579   -917.0 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         221.6   181.0  0.04428          0.04428   218.7   178.1
                C:34098 PR CRK4G18.0 34099 PRAR CK7 115 1    2785
                  Open 34098 PR CRK4G18.0 34099 PRAR CK7 115 1                          -0.02205  0.00000  -132.0  -132.0
1580   -916.7 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -67.5   -66.0 -0.00166         -0.00166   -66.5   -65.0
                C:60008 RIVRS78G22.0 60240 RIVRSID7 115 1    2901
                  Open 60008 RIVRS78G22.0 60240 RIVRSID7 115 1                           0.00442  0.00000  -228.0  -228.0
1581   -913.6 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         220.9   181.0  0.04371          0.04428   218.7   178.2
                C:34029 SALEM  3 345 34030 SALEM  5 161 1      74
                  Open 34029 SALEM  3 345 34030 SALEM  5 161 1                           0.01439 -0.03978   155.3   191.6
1582   -913.6 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         220.9   181.0  0.04371          0.04428   218.7   178.2
                C:34029 SALEM  3 345 34036 ROCK CK3 345 1      75
                  Open 34029 SALEM  3 345 34036 ROCK CK3 345 1                          -0.01439  0.03978  -155.3  -191.6
1583   -909.4 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         221.7   181.0  0.04480          0.04428   218.7   178.4
                C:ASK-RRK/ECL3                               3645
                  Open 60186 AS KING3 345 60236 REDROCK3 345 1                           0.00122 -0.01971    56.6    74.6
                  Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.00707  0.06345   376.0   318.3
                  Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.00131 -0.06709  -241.0  -179.9
1584   -906.9 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -68.0   -66.0 -0.00218         -0.00166   -66.5   -65.0
                C:BLL-PRI/IVH3                               3641
                  Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                           0.00570 -0.03963    90.2   126.1
                  Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.00611  0.04835   323.7   279.8
1585   -906.2 L:60809 SJA SWS869.0 60709 STJMSMU869.0 1          39.0    36.0  0.00331          0.00284    33.5    30.9
                C:34249 TRUMAN 869.0 62799 LWSVLTP869.0 1     403
                  Open 34249 TRUMAN 869.0 62799 LWSVLTP869.0 1                           0.50244  0.00093    11.0    10.2
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1586   -904.5 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         221.5   181.0  0.04479          0.04428   218.7   178.6
              C:050    2                                    3719
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00667  0.06345   376.0   318.6
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.00129 -0.06709  -241.0  -180.3
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          0.00000 -0.00187    64.8    66.5
1587   -903.1 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         221.4   181.0  0.04474          0.04428   218.7   178.7
              C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00720  0.06345   376.0   318.7
1588   -903.1 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         221.1   181.0  0.04441          0.04428   218.7   178.7
              C:34068 M-TOWN 5 161 34528 M-TOWN Y 161 1     153
                Open 34068 M-TOWN 5 161 34528 M-TOWN Y 161 1                         -0.06407 -0.00190   -37.5   -35.8
1589   -903.1 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         221.1   181.0  0.04441          0.04428   218.7   178.7
              C:34066 M-TOWN 7 115 34528 M-TOWN Y 161 1     147
                Open 34066 M-TOWN 7 115 34528 M-TOWN Y 161 1                          0.06407  0.00190    37.5    35.8
1590   -902.5 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         221.1   181.0  0.04444          0.04428   218.7   178.7
              C:795                                        3768
                Open 60150 MNVLTAP4 230 66550 GRANITF4 230 1                         -0.00951 -0.01397  -262.1  -249.5
                Open 60148 MINVALY7 115 60149 MINVALT4 230 C1                         0.00947  0.00290    16.5    13.8
                Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                          0.00394  0.00000     0.0     0.0
                Open 60149 MINVALT4 230 60150 MNVLTAP4 230 1     NA
                Open 60742 PANTHER869.0 63054 PANTHER4 230 1                          0.00518  0.00014   -45.6   -45.7
1591   -901.9 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         145.9   144.0  0.00216          0.00232   143.5   141.4
              C:60662 BIGFALL869.0 61129 WHTTAIL869.0 1    1385
                Open 60662 BIGFALL869.0 61129 WHTTAIL869.0 1                          0.17346 -0.00092    14.1    15.0
1592   -901.5 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -224.1  -181.0 -0.04785         -0.04428  -200.5  -160.6
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                          0.02554 -0.13974  -926.4  -800.4
1593   -900.0 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         221.0   181.0  0.04442          0.04428   218.7   178.8
              C:60150 MNVLTAP4 230 63054 PANTHER4 230 1    2955
                Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                          0.00819  0.01686   278.5   263.4
1594   -899.3 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         221.2   181.0  0.04472          0.04428   218.7   178.9
              C:050    1                                   3718
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00681  0.06345   376.0   318.9
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.00064 -0.06709  -241.0  -180.6
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          0.00000 -0.00187    64.8    66.5
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                          0.00767 -0.00300     0.0     2.7
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                          0.00876 -0.00148   -22.1   -20.8
1595   -898.0 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         221.3   181.0  0.04489          0.04428   218.7   178.9
              C:34009 WINBAGO5 161 61932 RUTLAND5 161 1      32
                Open 34009 WINBAGO5 161 61932 RUTLAND5 161 1                         -0.01188 -0.05102  -219.8  -174.0
1596   -896.7 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         221.1   181.0  0.04473          0.04428   218.7   179.0
              C:34014 ADAMS  5 161 69526 BVR CRK5 161 1    2720
                Open 34014 ADAMS  5 161 69526 BVR CRK5 161 1                          0.01957  0.02269   123.1   102.7
1597   -896.6 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         221.3   181.0  0.04493          0.04428   218.7   179.0
              C:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1     114
                Open 34051 TOLEDO 7 115 34066 M-TOWN 7 115 1                         -0.04202 -0.01538   -61.6   -47.8
1598   -894.8 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          38.7    36.0  0.00297          0.00284    37.3    34.8
              C:34226 STORDEN869.0 62801 SSTORDN869.0 1     374
                Open 34226 STORDEN869.0 62801 SSTORDN869.0 1                         -0.06466 -0.00201   -20.2   -18.4
1599   -893.9 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         220.6   181.0  0.04428          0.04428   218.7   179.1
              C:60122 LAWRENC7 115 60834 LAWRENC869.0 1     992
                Open 60122 LAWRENC7 115 60834 LAWRENC869.0 1                          0.02043  0.00000    92.3    92.3
1600   -893.7 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         220.8   181.0  0.04456          0.04428   218.7   179.1
              C:66529 WATERTN3 345 66537 WHITE  3 345 1    2501
                Open 66529 WATERTN3 345 66537 WHITE  3 345 1                         -0.00690 -0.04065  -308.9  -272.6
1601   -892.3 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         220.6   181.0  0.04443          0.04428   218.7   179.2
              C:62980 MCLEOD 4 230 63054 PANTHER4 230 1    3396
                Open 62980 MCLEOD 4 230 63054 PANTHER4 230 1                         -0.00872 -0.01700  -223.7  -208.5
1602   -891.7 L:60264 LOON LK7 115 61976 LOON LK869.0 1           80.4    75.0  0.00610          0.00538    79.0    74.2
              C:BLL-PRI/IVH3                               3641
                Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                         -0.00950 -0.03963    90.2   125.5
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          0.00701  0.04835   323.7   280.6
1603   -890.6 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         220.9   181.0  0.04475          0.04428   218.7   179.3
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              C:34008 FOX LK 5 161 61932 RUTLAND5 161 1      28
                Open 34008 FOX LK 5 161 61932 RUTLAND5 161 1                          0.00965  0.04814   223.4   180.5
1604   -888.0 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         220.5   181.0  0.04454          0.04428   218.7   179.4
              C:60265 LOON TP7 115 60830 EASTWD18 115 P1   1276
                Open 60265 LOON TP7 115 60830 EASTWD18 115 P1                        -0.00989 -0.02554  -187.3  -164.6
1605   -885.4 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         217.5   181.0  0.04123          0.04428   218.7   179.5
              C:34089 VINTON 5 161 34091 ARNOLD 5 161 1     177
                Open 34089 VINTON 5 161 34091 ARNOLD 5 161 1                         -0.06453  0.04736    18.5   -23.4
1606   -884.7 L:60145 FRANKLN7 115 60728 FRANKLN869.0 2          49.1    47.0  0.00232          0.00115    38.5    37.5
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          0.01031  0.11319  1025.6   925.5
1607   -884.7 L:60145 FRANKLN7 115 60728 FRANKLN869.0 1          49.1    47.0  0.00232          0.00115    38.5    37.5
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          0.01031  0.11319  1025.6   925.5
1608   -883.9 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         146.2   144.0  0.00246          0.00232   143.5   141.4
              C:022       3                                3707
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          0.00331  0.02473   273.5   251.6
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                          0.00322  0.01927   549.2   532.2
                Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                          0.00055  0.00023   225.9   225.7
                Open 60251 TERMINL3 345 61491 TERMID2Y 345 1                         -0.00031 -0.00173   381.0   382.5
                Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                          0.00192  0.00000     0.2     0.2
                Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
1609   -882.2 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         220.1   181.0  0.04428          0.04428   218.7   179.6
              C:34039 BVRCH52G20.0 34042 BVR CH65 161 1    2739
                Open 34039 BVRCH52G20.0 34042 BVR CH65 161 1                         -0.01171  0.00000  -117.0  -117.0
1610   -882.0 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         220.1   181.0  0.04436          0.04428   218.7   179.6
              C:500                                         3721
                Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                         -0.00767 -0.01028  -223.5  -214.4
                Open 62427 WILLMAR869.0 63050 WILLMAR4 230 1                          0.00607  0.00004   -47.0   -47.0
1611   -881.9 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         220.1   181.0  0.04430          0.04428   218.7   179.6
              C:63369 JAMESTN3 345 66791 CENTER 3 345 1    2201
                Open 63369 JAMESTN3 345 66791 CENTER 3 345 1                         -0.00310 -0.00471  -441.7  -437.5
1612   -881.9 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -14.5   -13.7 -0.00090         -0.00090   -18.3   -17.5
              C:62985 HUTCHPK869.0 62986 HUTCHMN869.0 1    2029
                Open 62985 HUTCHPK869.0 62986 HUTCHMN869.0 1                         -0.08394  0.00000   -44.9   -44.9
1613   -881.6 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         220.1   181.0  0.04436          0.04428   218.7   179.7
              C:66530 WATERTN4 230 66550 GRANITF4 230 1    2503
                Open 66530 WATERTN4 230 66550 GRANITF4 230 1                          0.00549  0.01320   256.5   244.9
1614   -880.6 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         220.5   181.0  0.04486          0.04428   218.7   179.7
              C:LAKF-FOX DBL                                3784
                Open 34007 LAKEFLD5 161 34008 FOX LK 5 161 1                          0.01069  0.02660    81.2    57.8
                Open 34007 LAKEFLD5 161 34008 FOX LK 5 161 2                          0.01069  0.02728    87.8    63.8
1615   -880.4 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         220.1   181.0  0.04441          0.04428   218.7   179.7
              C:WATERT1T                                    3786
                Open 66236 WATERT1T 345 66237 WATERT1913.8 1     NA
                Open 66236 WATERT1T 345 66529 WATERTN3 345 1                         -0.00428 -0.02864  -326.1  -300.9
                Open 66236 WATERT1T 345 66530 WATERTN4 230 1                          0.01389  0.00000     0.2     0.2
1616   -880.4 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         220.1   181.0  0.04441          0.04428   218.7   179.7
              C:66236 WATERT1T 345 66529 WATERTN3 345 1    2238
                Open 66236 WATERT1T 345 66529 WATERTN3 345 1                         -0.00428 -0.02864  -326.1  -300.9
1617   -880.3 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         220.1   181.0  0.04441          0.04428   218.7   179.7
              C:66236 WATERT1T 345 66530 WATERTN4 230 1    2239
                Open 66236 WATERT1T 345 66530 WATERTN4 230 1                          0.00428  0.02864   325.9   300.7
1618   -880.2 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         220.0   181.0  0.04428          0.04428   218.7   179.7
              C:60834 LAWRENC869.0 60863 SF M2 T869.0 1    1493
                Open 60834 LAWRENC869.0 60863 SF M2 T869.0 1                          0.02043  0.00000    62.7    62.7
1619   -879.8 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         220.5   181.0  0.04494          0.04428   218.7   179.7
              C:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1     145
                Open 34066 M-TOWN 7 115 34085 BLRSTWN7 115 1                          0.04003  0.01629    45.9    31.6
1620   -879.7 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         220.0   181.0  0.04428          0.04428   218.7   179.7
              C:34075 ELDORA 7 115 34158 ELDORA 934.5 1    2767
                Open 34075 ELDORA 7 115 34158 ELDORA 934.5 1                          0.11309  0.00000    11.1    11.1
1621   -879.0 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         220.0   181.0  0.04435          0.04428   218.7   179.8
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              C:CNC-KOL/TER3                                3636
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          0.00166  0.02473   273.5   251.7
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                          0.00152  0.01927   549.2   532.3
1622   -878.9 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         220.0   181.0  0.04436          0.04428   218.7   179.8
              C:60156 PYNSVIL7 115 60356 PAYNES 4 230 C1   1069
                Open 60156 PYNSVIL7 115 60356 PAYNES 4 230 C1                        -0.00742 -0.01032  -174.0  -164.9
1623   -878.9 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         220.0   181.0  0.04436          0.04428   218.7   179.8
              C:60356 PAYNES 4 230 63050 WILLMAR4 230 C1   1366
                Open 60356 PAYNES 4 230 63050 WILLMAR4 230 C1                        -0.00742 -0.01032  -174.0  -164.9
1624   -878.1 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         220.4   181.0  0.04492          0.04428   218.7   179.8
              C:34010 HAYWARD5 161 61984 AUSTIN 5 161 1    2714
                Open 34010 HAYWARD5 161 61984 AUSTIN 5 161 1                          0.02191  0.02924    79.9    54.2
1625   -878.1 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         220.0   181.0  0.04439          0.04428   218.7   179.8
              C:66503 BLAIR  4 230 66530 WATERTN4 230 1    2448
                Open 66503 BLAIR  4 230 66530 WATERTN4 230 1                         -0.00577 -0.01853  -222.1  -205.8
1626   -877.3 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         219.9   181.0  0.04430          0.04428   218.7   179.8
              C:63358 BUFFALO3 345 63369 JAMESTN3 345 1    2197
                Open 63358 BUFFALO3 345 63369 JAMESTN3 345 1                         -0.00310 -0.00471  -375.7  -371.6
1627   -876.6 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         219.8   181.0  0.04428          0.04428   218.7   179.9
              C:34395 EMERY S869.0 34403 CL LAKT869.0 1     552
                Open 34395 EMERY S869.0 34403 CL LAKT869.0 1                          0.04442  0.00000    25.3    25.3
1628   -876.5 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         219.9   181.0  0.04436          0.04428   218.7   179.9
              C:022       3                                 3707
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          0.00174  0.02473   273.5   251.8
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                          0.00163  0.01927   549.2   532.4
                Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                         -0.00013  0.00023   225.9   225.7
                Open 60251 TERMINL3 345 61491 TERMID2Y 345 1                         -0.00041 -0.00173   381.0   382.5
                Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                          0.00264  0.00000     0.2     0.2
                Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
1629   -876.3 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         219.8   181.0  0.04430          0.04428   218.7   179.9
              C:63358 BUFFALO3 345 66792 MAPLE R3 345 1    2198
                Open 63358 BUFFALO3 345 66792 MAPLE R3 345 1                          0.00310  0.00471   362.1   358.0
1630   -876.1 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         219.8   181.0  0.04428          0.04428   218.7   179.9
              C:60851 SX FLS 869.0 60863 SF M2 T869.0 1    1508
                Open 60851 SX FLS 869.0 60863 SF M2 T869.0 1                          0.02043  0.00000    53.9    53.9
1631   -875.9 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         219.8   181.0  0.04434          0.04428   218.7   179.9
              C:63050 WILLMAR4 230 66550 GRANITF4 230 1    2053
                Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                         -0.00509 -0.01028  -223.5  -214.5
1632   -875.9 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         219.8   181.0  0.04433          0.04428   218.7   179.9
              C:63327 HANKSON4 230 63329 WAHPETN4 230 1    2192
                Open 63327 HANKSON4 230 63329 WAHPETN4 230 1                          0.00439  0.01075   257.3   247.9
1633   -875.6 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         219.9   181.0  0.04440          0.04428   218.7   179.9
              C:60309 MRSHLND5 161 69543 ALMA   5 161 1    3014
                Open 60309 MRSHLND5 161 69543 ALMA   5 161 1                         -0.00869 -0.01293  -135.2  -123.9
1634   -875.3 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         219.8   181.0  0.04428          0.04428   218.7   179.9
              C:535       1                                 3724
                Open 60134 SHEYNNE7 115 60135 CASS CO7 115 1                         -0.00005 -0.00005    74.8    74.8
                Open 60134 SHEYNNE7 115 66761 MODEROW7 115 1                         -0.00005 -0.00005    84.9    84.9
                Open 60135 CASS CO7 115 66761 MODEROW7 115 1     NA
                Open 60135 CASS CO7 115 60137 REDRIVR7 115 1                          0.01084  0.00000    98.8    98.8
1635   -875.0 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         220.3   181.0  0.04493          0.04428   218.7   180.0
              C:34051 TOLEDO 7 115 34083 BL.PLN.7 115 1     115
                Open 34051 TOLEDO 7 115 34083 BL.PLN.7 115 1                          0.04202  0.01538    38.4    24.9
1636   -874.1 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         219.8   181.0  0.04444          0.04428   218.7   180.0
              C:60107 W FARIB7 115 60265 LOON TP7 115 C1    952
                Open 60107 W FARIB7 115 60265 LOON TP7 115 C1                        -0.00753 -0.02016  -151.8  -134.1
1637   -873.7 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         220.0   181.0  0.04469          0.04428   218.7   180.0
              C:34022 LANSING5 161 69531 POSTVIL5 161 1    2734
                Open 34022 LANSING5 161 69531 POSTVIL5 161 1                          0.04281  0.00951    31.5    23.1
1638   -873.4 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         219.7   181.0  0.04432          0.04428   218.7   180.0
              C:66503 BLAIR  4 230 66550 GRANITF4 230 1    2449
                Open 66503 BLAIR  4 230 66550 GRANITF4 230 1                          0.00372  0.00970   271.9   263.4
1639   -872.6 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         219.7   181.0  0.04439          0.04428   218.7   180.1
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              C:60189 BLK DOG4 230 62980 MCLEOD 4 230 1    1121
                Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                          -0.00783 -0.01298  -132.0  -120.6
1640   -872.6 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         219.7   181.0  0.04439          0.04428   218.7   180.1
              C:60189 BLK DOG4 230 60190 BLK DOG7 115 C1   1120
                Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                          0.00783  0.01298   132.0   120.6
1641   -872.6 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         219.7   181.0  0.04439          0.04428   218.7   180.1
              C:810   C1                                   3770
                Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                          -0.00783 -0.01298  -132.0  -120.6
                Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                          0.00291  0.00000    -0.0    -0.0
1642   -871.3 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         219.9   181.0  0.04461          0.04428   218.7   180.1
              C:39244 ARP 345  345 60304 EAU CL 3 345 1    2891
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.00485 -0.06709  -241.0  -182.5
1643   -870.8 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          38.6    36.0  0.00297          0.00284    37.3    34.9
              C:34226 STORDEN869.0 62791 JFFRSTP869.0 1     373
                Open 34226 STORDEN869.0 62791 JFFRSTP869.0 1                           0.06466  0.00201    19.1    17.4
1644   -870.7 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         219.9   181.0  0.04467          0.04428   218.7   180.1
              C:34010 HAYWARD5 161 34014 ADAMS  5 161 1      34
                Open 34010 HAYWARD5 161 34014 ADAMS  5 161 1                           0.01737  0.02214    68.7    49.4
1645   -869.5 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         219.9   181.0  0.04476          0.04428   218.7   180.2
              C:34191 REASNOR5 161 64062 DMOINES5 161 1    2823
                Open 34191 REASNOR5 161 64062 DMOINES5 161 1                          -0.01565 -0.03041   -78.0   -51.6
1646   -869.4 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         146.1   144.0  0.00246          0.00232   143.5   141.5
              C:CNC-KOL/TER3                               3636
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                           0.00330  0.02473   273.5   252.0
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                           0.00317  0.01927   549.2   532.5
1647   -866.2 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         220.3   181.0  0.04532          0.04428   218.7   180.3
              C:34084 PARNEL 5 161 34185 POWESHK5 161 1     173
                Open 34084 PARNEL 5 161 34185 POWESHK5 161 1                          -0.02382 -0.04352   -65.5   -27.8
1649   -864.4 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         219.7   181.0  0.04479          0.04428   218.7   180.4
              C:34054 GR JCT 5 161 63771 DRAGER 5 161 1    2751
                Open 34054 GR JCT 5 161 63771 DRAGER 5 161 1                          -0.01376 -0.03698   -74.1   -42.2
1650   -861.8 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         219.7   181.0  0.04494          0.04428   218.7   180.5
              C:34085 BLRSTWN7 115 34099 PRAR CK7 115 1     175
                Open 34085 BLRSTWN7 115 34099 PRAR CK7 115 1                           0.04003  0.01629    25.6    11.6
1651   -861.0 L:60312 PINE LK5 161 60313 PINE LK7 115 1         113.8   112.0  0.00207         -0.00263    37.5    39.8
              C:60187 AS KING7 115 60325 WILOWRV7 115 1    1118
                Open 60187 AS KING7 115 60325 WILOWRV7 115 1                           0.63246  0.00743   120.6   114.2
1652   -855.4 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         215.0   181.0  0.03979          0.04428   218.7   180.8
              C:63713 OSGOOD 5 161 66563 SPENCER5 161 1    3463
                Open 63713 OSGOOD 5 161 66563 SPENCER5 161 1                           0.03133 -0.14330  -116.8     5.8
1653   -851.3 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         218.7   181.0  0.04428
                Base Case
1654   -850.4 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         220.8   181.0  0.04681          0.04428   218.7   181.0
              C:60102 ADAMS  3 345 63032 PL VLLY3 345 1    2936
                Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                          -0.02604 -0.09711   -81.1     1.5
1655   -846.2 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         216.9   181.0  0.04242          0.04428   218.7   181.2
              C:34020 HAZL S 5 161 64269 WASHBRN5 161 1    2729
                Open 34020 HAZL S 5 161 64269 WASHBRN5 161 1                           0.08562 -0.02178   -21.0    -2.6
1656   -845.9 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -20.4   -19.3 -0.00125         -0.00094   -16.3   -15.5
              C:715       2                                3749
                Open 60243 SCOTTAP7 115 62666 GLNDALE7 115 1                          -0.06077  0.00356    31.4    28.4
                Open 60242 SAVAGE 7 115 62668 EGLCKTP7 115 1     NA
                Open 62666 GLNDALE7 115 62672 GLNDALE869.0 1                          -0.00007  0.00008    32.9    32.8
                Open 60243 SCOTTAP7 115 60244 SCOTTCO7 115 1                          -0.09032  0.00158    27.4    26.0
                Open 60194 CARVRCO7 115 60243 SCOTTAP7 115 1                          -0.05880  0.00000     1.2     1.2
                Open 60194 CARVRCO7 115 60931 CARVRCO869.0 1                           0.05358 -0.00021    30.7    30.8
                Open 60190 BLK DOG7 115 60242 SAVAGE 7 115 1                          -0.02972 -0.00055    49.7    50.2
                Open 62668 EGLCKTP7 115 62975 SHAKOPE7 115 1     NA
                Open 60244 SCOTTCO7 115 62975 SHAKOPE7 115 1                           0.03152  0.00000    71.1    71.1
                Open 60244 SCOTTCO7 115 60890 SCOTTCO869.0 2                          -0.05983 -0.00079    33.6    34.2
1657   -843.6 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -15.8   -12.0 -0.00453         -0.00453   -10.8    -7.0
              C:34146 OTTUMW1G24.0 34189 OTTUMWA5 161 1    2812
                Open 34146 OTTUMW1G24.0 34189 OTTUMWA5 161 1                           0.01071  0.00000  -466.3  -466.3
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1658   -833.9 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         217.2   181.0  0.04340          0.04428   218.7   181.8
               C:34028 LORE   5 161 34129 LIBERTY5 161 1      71
                 Open 34028 LORE   5 161 34129 LIBERTY5 161 1                          0.03766 -0.02348   -40.0   -20.4
1659   -830.4 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         212.0   181.0  0.03738          0.04428   218.7   181.9
               C:34019 HAZLTON5 161 64250 BLKHAWK5 161 1    2728
                 Open 34019 HAZLTON5 161 64250 BLKHAWK5 161 1                          0.17098 -0.04036   -38.9    -5.4
1660   -829.7 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         219.8   181.0  0.04678          0.04428   218.7   182.0
               C:34016 EMERY  5 161 34017 CGORDO_5 161 1      49
                 Open 34016 EMERY  5 161 34017 CGORDO_5 161 1                         -0.03278 -0.07624   -34.1    29.2
1661   -828.5 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         217.7   181.0  0.04428          0.04428   218.7   182.0
               C:34091 ARNOLD 5 161 34105 HIAWATA5 161 1     178
                 Open 34091 ARNOLD 5 161 34105 HIAWATA5 161 1                         -0.00638  0.00122   159.0   157.9
1662   -823.2 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         217.5   181.0  0.04428          0.04428   218.7   182.2
               C:66520 OAHE   7 115 66559 OAHE  1G13.8 1    3565
                 Open 66520 OAHE   7 115 66559 OAHE  1G13.8 1                          0.01741  0.00000   -71.4   -71.4
1663   -822.9 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         217.4   181.0  0.04428          0.04428   218.7   182.3
               C:66442 GARRISN7 115 66460 GARISN4G13.8 1    3552
                 Open 66442 GARRISN7 115 66460 GARISN4G13.8 1                          0.01311  0.00000   -95.8   -95.8
1664   -822.4 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         217.4   181.0  0.04428          0.04428   218.7   182.3
               C:66441 GARRISN4 230 66459 GARISN3G13.8 1    3551
                 Open 66441 GARRISN4 230 66459 GARISN3G13.8 1                          0.01338  0.00000   -95.5   -95.5
1665   -822.4 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         217.4   181.0  0.04428          0.04428   218.7   182.3
               C:66441 GARRISN4 230 66457 GARISN1G13.8 1    3549
                 Open 66441 GARRISN4 230 66457 GARISN1G13.8 1                          0.01338  0.00000   -95.5   -95.5
1666   -822.4 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         217.4   181.0  0.04428          0.04428   218.7   182.3
               C:66441 GARRISN4 230 66458 GARISN2G13.8 1    3550
                 Open 66441 GARRISN4 230 66458 GARISN2G13.8 1                          0.01338  0.00000   -95.5   -95.5
1667   -822.3 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         217.4   181.0  0.04428          0.04428   218.7   182.3
               C:60006 KING 31G20.0 60186 AS KING3 345 1    2899
                 Open 60006 KING 31G20.0 60186 AS KING3 345 1                          0.00222  0.00000  -576.7  -576.7
1668   -822.0 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          38.4    36.0  0.00293          0.00284    37.3    35.0
               C:60126 SPLT RK3 345 60286 NOBLES 3 345 C1   1003
                 Open 60126 SPLT RK3 345 60286 NOBLES 3 345 C1                        -0.00514 -0.01796  -206.7  -191.9
1669   -821.0 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         219.9   181.0  0.04735          0.04428   218.7   182.3
               C:34066 M-TOWN 7 115 34169 WELSBGT7 115 1     146
                 Open 34066 M-TOWN 7 115 34169 WELSBGT7 115 1                         -0.16581 -0.01850    -7.1     8.1
1670   -820.8 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         217.2   181.0  0.04409          0.04428   218.7   182.3
               C:34091 ARNOLD 5 161 34111 FAIRFAX5 161 1     179
                 Open 34091 ARNOLD 5 161 34111 FAIRFAX5 161 1                         -0.01209  0.01574   124.6   111.7
1671   -820.2 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -14.5   -13.7 -0.00097         -0.00090   -18.3   -17.5
               C:60114 ELM CRK3 345 60151 MNTCELO3 345 1     974
                 Open 60114 ELM CRK3 345 60151 MNTCELO3 345 1                         -0.00655  0.01067  -575.5  -584.2
1672   -819.4 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         217.3   181.0  0.04428          0.04428   218.7   182.4
               C:67106 LELANDO4 230 67110 LELAN41G22.0 1    3592
                 Open 67106 LELANDO4 230 67110 LELAN41G22.0 1                          0.01396  0.00000  -101.2  -101.2
1673   -819.1 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         217.5   181.0  0.04456          0.04428   218.7   182.4
               C:875       1                                3780
                 Open 60302 COULEE 5 161 60308 LACROSS5 161 1                         -0.00748 -0.00933    41.7    49.3
                 Open 69523 GENOA  5 161 69535 LAC TAP5 161 1                         -0.01515 -0.01293   106.7   117.3
                 Open 60308 LACROSS5 161 69535 LAC TAP5 161 1                         -0.00583 -0.00093  -124.7  -123.9
                 Open 60309 MRSHLND5 161 69535 LAC TAP5 161 1                         -0.00216  0.00000     1.6     1.6
1674   -817.4*L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         217.2   181.0  0.04428          0.04428   218.7   182.5
               C:34008 FOX LK 5 161 34011 FOXLK53G13.8 1    2713
                 Open 34008 FOX LK 5 161 34011 FOXLK53G13.8 1                          0.01832  0.00000   -82.0   -82.0
1677   -815.1 L:60827 LKEMILY869.0 62681 CLVLAND869.0 1         -49.1   -48.0 -0.00136         -0.00007   -12.1   -12.0
               C:60826 TRAVRSE869.0 62323 PNLPNTP869.0 1    3176
                 Open 60826 TRAVRSE869.0 62323 PNLPNTP869.0 1                          0.53268 -0.00242   -69.6   -67.6
1682   -811.9 L:66236 WATERT1T 345 66529 WATERTN3 345 1        -423.3  -400.0 -0.02864         -0.02864  -326.1  -302.8
               C:63314 BIGSTON4 230 63315 BIGSTN1G24.0 1    3460
                 Open 63314 BIGSTON4 230 63315 BIGSTN1G24.0 1                          0.21563  0.00000  -450.6  -450.6
1685   -811.3 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          38.4    36.0  0.00297          0.00284    37.3    35.0
               C:62791 JFFRSTP869.0 62800 NSTORDN869.0 1    1986
                 Open 62791 JFFRSTP869.0 62800 NSTORDN869.0 1                          0.06466  0.00201    16.4    14.8
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1693   -805.6 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          38.4    36.0  0.00296          0.00284    37.3    35.1
               C:60108 WILMART3 345 60110 WILMART7 115 2     957
                 Open 60108 WILMART3 345 60110 WILMART7 115 2                          0.00905  0.01343   114.7   103.9
1695   -804.4 L:66236 WATERT1T 345 66530 WATERTN4 230 1         423.0   400.0  0.02864          0.02864   325.9   302.8
               C:63314 BIGSTON4 230 63315 BIGSTN1G24.0 1    3460
                 Open 63314 BIGSTON4 230 63315 BIGSTN1G24.0 1                         -0.21563  0.00000  -450.6  -450.6
1710   -795.3 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          39.2    36.0  0.00404          0.00284    37.3    35.1
               C:62066 LVNWRTH869.0 62068 ALBIN  869.0 1    1723
                 Open 62066 LVNWRTH869.0 62068 ALBIN  869.0 1                          0.52185  0.00229     3.6     1.7
1711   -793.6 L:60938 FTRIDGL869.0 62077 SCHLTP 869.0 1          38.3    37.0  0.00170          0.00152    33.3    32.1
               C:60826 TRAVRSE869.0 62323 PNLPNTP869.0 1    3176
                 Open 60826 TRAVRSE869.0 62323 PNLPNTP869.0 1                         -0.07211 -0.00242   -69.6   -67.6
1714   -789.5 L:34590 GRDRVRE869.0 34643 GRRIVER869.0 1          14.6    12.0  0.00331          0.00108     5.1     4.2
               C:34650 ARISTAP869.0 34653 CRESTN8_69.0 1     749
                 Open 34650 ARISTAP869.0 34653 CRESTN8_69.0 1                         -0.64584 -0.00345   -14.8   -12.0
1717   -788.7 L:60156 PYNSVIL7 115 60760 PAYNES 869.0 P2         48.1    47.0  0.00141          0.00115    40.4    39.5
               C:63222 ALEXAND7 115 67452 ALEXSS   115 1    2106
                 Open 63222 ALEXAND7 115 67452 ALEXSS   115 1                          -0.08751 -0.00296   -88.0   -85.7
1718   -788.7 L:60156 PYNSVIL7 115 60760 PAYNES 869.0 P1         48.1    47.0  0.00141          0.00115    40.4    39.5
               C:63222 ALEXAND7 115 67452 ALEXSS   115 1    2106
                 Open 63222 ALEXAND7 115 67452 ALEXSS   115 1                          -0.08751 -0.00296   -88.0   -85.7
1719   -788.2 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -217.4  -181.0 -0.04615         -0.04428  -200.5  -165.6
               C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                 Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          -0.01647  0.11319  1025.6   936.4
1727   -783.1 L:60796 KENYON 869.0 60797 KENYNTP869.0 1         -39.9   -37.0 -0.00373         -0.00161   -20.7   -19.5
               C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                 Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          -0.01873  0.11319  1025.6   937.0
1728   -782.4 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -212.7  -181.0 -0.04048         -0.04428  -200.5  -165.8
               C:34087 DYSART 5 161 64269 WASHBRN5 161 1    2775
                 Open 34087 DYSART 5 161 64269 WASHBRN5 161 1                          -0.17382 -0.02187    70.2    87.3
1732   -777.8 L:60208 EDINA  7 115 60263 EDEN PR7 115 1        -320.0  -318.0 -0.00254         -0.00290  -288.5  -286.3
               C:60217 INVRHLS3 345 60218 INVRHLS7 115 1    1197
                 Open 60217 INVRHLS3 345 60218 INVRHLS7 115 1                          -0.10065 -0.00356   312.4   315.2
1733   -776.5 L:66236 WATERT1T 345 66529 WATERTN3 345 1        -435.0  -400.0 -0.04506         -0.02864  -326.1  -303.9
               C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                 Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                          0.11755 -0.13974  -926.4  -817.9
1734   -776.1 L:60809 SJA SWS869.0 62805 STJAMES869.0 1         -38.7   -36.0 -0.00351         -0.00284   -33.5   -31.3
               C:34012 FOXLAKE869.0 34275 WELCOMT869.0 1      39
                 Open 34012 FOXLAKE869.0 34275 WELCOMT869.0 1                          -0.17463  0.00381    29.8    26.9
1735   -775.3 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -217.0  -181.0 -0.04638         -0.04428  -200.5  -166.1
               C:34015 LIME CK5 161 34016 EMERY  5 161 1      46
                 Open 34015 LIME CK5 161 34016 EMERY  5 161 1                          0.06507 -0.03224  -253.3  -228.3
1739   -773.4 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         145.9   144.0  0.00248          0.00232   143.5   141.7
               C:022       1                                 3706
                 Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          0.00352  0.02473   273.5   254.4
                 Open 60221 KOLMNLK3 345 60251 TERMINL3 345 1                         -0.00075 -0.02272   209.4   226.9
                 Open 60202 COON CK3 345 60251 TERMINL3 345 1                          0.00277  0.01927   549.2   534.3
                 Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                          0.00041  0.00023   225.9   225.7
                 Open 60251 TERMINL3 345 61492 TERMID1Y 345 1     NA
                 Open 60252 TERMINL7 115 61492 TERMID1Y 345 1                          0.00000  0.00172  -377.2  -378.5
                 Open 61187 TERTER1934.5 61492 TERMID1Y 345 1     NA
                 Open 60251 TERMINL3 345 61491 TERMID2Y 345 1     NA
                 Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                          0.00215  0.00000     0.7     0.7
                 Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
1740   -772.5 L:34590 GRDRVRE869.0 34643 GRRIVER869.0 1          14.6    12.0  0.00331          0.00108     5.1     4.2
               C:34648 LENXTAP869.0 34650 ARISTAP869.0 1     747
                 Open 34648 LENXTAP869.0 34650 ARISTAP869.0 1                         -0.64584 -0.00345   -14.7   -12.0
1741   -771.9 L:60264 LOON LK7 115 61976 LOON LK869.0 1          77.9    75.0  0.00375          0.00538    79.0    74.9
               C:825                                         3774
                 Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                          0.00530 -0.09711   -81.1    -6.1
                 Open 34014 ADAMS  5 161 60102 ADAMS  3 345 1                          0.00000  0.02246     4.5   -12.8
                 Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                          0.00784 -0.14203   -88.8    20.8
1742   -771.7 L:66236 WATERT1T 345 66530 WATERTN4 230 1         434.8   400.0  0.04506          0.02864   325.9   303.8
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              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                          -0.11755 -0.13974  -926.4  -818.5
1745   -768.5 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -217.2  -181.0 -0.04707         -0.04428  -200.5  -166.4
              C:34072 FRNKLIN7 115 34571 FRNKLN_Y 161 1     156
                Open 34072 FRNKLIN7 115 34571 FRNKLN_Y 161 1                           0.22419 -0.01241   -74.4   -64.9
1746   -768.5 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -217.2  -181.0 -0.04707         -0.04428  -200.5  -166.4
              C:34571 FRNKLN_Y 161 64239 FRANKLN5 161 1    2859
                Open 34571 FRNKLN_Y 161 64239 FRANKLN5 161 1                           0.22419 -0.01241   -74.4   -64.9
1747   -768.5 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -217.2  -181.0 -0.04707         -0.04428  -200.5  -166.4
              C:34072 FRNKLIN7 115 34077 IA FALS7 115 1     155
                Open 34072 FRNKLIN7 115 34077 IA FALS7 115 1                          -0.22419  0.01241    74.4    64.9
1754   -759.4 L:60809 SJA SWS869.0 60709 STJMSMU869.0 1          38.7    36.0  0.00351          0.00284    33.5    31.3
              C:34012 FOXLAKE869.0 34275 WELCOMT869.0 1      39
                Open 34012 FOXLAKE869.0 34275 WELCOMT869.0 1                           0.17463  0.00381    29.8    26.9
1755   -759.2 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         146.0   144.0  0.00263          0.00232   143.5   141.7
              C:WLR-ASK/PNL7                               3693
                Open 60187 AS KING7 115 60325 WILOWRV7 115 1                           0.04179  0.00743   120.6   114.9
                Open 60313 PINE LK7 115 60325 WILOWRV7 115 1                          -0.03922  0.00000    64.8    64.8
1756   -758.9 L:34590 GRDRVRE869.0 34643 GRRIVER869.0 1          14.5    12.0  0.00331          0.00108     5.1     4.3
              C:34647 DIAGONL869.0 34648 LENXTAP869.0 1     745
                Open 34647 DIAGONL869.0 34648 LENXTAP869.0 1                          -0.64584 -0.00345   -14.6   -12.0
1757   -758.1 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          83.8    80.0  0.00497          0.00593    78.9    74.4
              C:34174 EICTAP 5 161 64096 BEACON 5 161 1    2815
                Open 34174 EICTAP 5 161 64096 BEACON 5 161 1                           0.04739 -0.02033   102.3   117.7
1759   -755.7 L:67401 ABDNJCT7 115 67402 ABDNSBT7 115 1         -82.0   -80.0 -0.00262         -0.00273   -56.4   -54.4
              C:67326 ELLENDL4 230 67394 WISHEK 4 230 1    2666
                Open 67326 ELLENDL4 230 67394 WISHEK 4 230 1                           0.23667  0.00046  -107.9  -108.3
1760   -755.5 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -49.3   -48.0 -0.00170         -0.00216   -51.9   -50.3
              C:60805 WATRVIL869.0 62679 ELYSNTP869.0 1    3154
                Open 60805 WATRVIL869.0 62679 ELYSNTP869.0 1                          -0.14421 -0.00315   -18.4   -16.0
1763   -751.4 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -49.6   -48.0 -0.00216         -0.00216   -51.9   -50.3
              C:60110 WILMART7 115  8006 G261-CT115.0 1    2942
                Open 60110 WILMART7 115  8006 G261-CT115.0 1                          -0.01359  0.00000  -170.5  -170.5
1764   -751.4 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -49.6   -48.0 -0.00216         -0.00216   -51.9   -50.3
              C:60110 WILMART7 115  8007 G261-CT215.0 1    2943
                Open 60110 WILMART7 115  8007 G261-CT215.0 1                          -0.01359  0.00000  -170.5  -170.5
1765   -747.9 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -49.5   -48.0 -0.00201         -0.00216   -51.9   -50.3
              C:60905 FRMNGTN869.0 62256 CSTL RK869.0 1    3208
                Open 60905 FRMNGTN869.0 62256 CSTL RK869.0 1                          -0.47993 -0.00031    -5.1    -4.8
1766   -747.7 L:60264 LOON LK7 115 61976 LOON LK869.0 1          79.0    75.0  0.00538
                Base Case
1767   -743.4 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -49.6   -48.0 -0.00216         -0.00216   -51.9   -50.3
              C:60108 WILMART3 345  8001 G261-ST 19.5 1    2941
                Open 60108 WILMART3 345  8001 G261-ST 19.5 1                          -0.00716  0.00000  -326.0  -326.0
1769   -728.4 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          94.7    90.0  0.00647          0.00647    86.1    81.4
              C:34146 OTTUMW1G24.0 34189 OTTUMWA5 161 1    2812
                Open 34146 OTTUMW1G24.0 34189 OTTUMWA5 161 1                          -0.01845  0.00000  -466.3  -466.3
1770   -725.0 L:34590 GRDRVRE869.0 34643 GRRIVER869.0 1          14.4    12.0  0.00331          0.00108     5.1     4.3
              C:34176 MT AYR 869.0 34647 DIAGONL869.0 1     279
                Open 34176 MT AYR 869.0 34647 DIAGONL869.0 1                          -0.64584 -0.00345   -14.4   -11.9
1771   -723.8 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         145.7   144.0  0.00230          0.00232   143.5   141.8
              C:SHC-CNC/ECK3                               3634
                Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                           0.00148  0.00781   476.3   470.6
                Open 60114 ELM CRK3 345 60151 MNTCELO3 345 1                          -0.00254  0.01067  -575.5  -583.2
1772   -722.5 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -59.4   -58.0 -0.00195         -0.00273   -56.6   -54.6
              C:34189 OTTUMWA5 161 34192 LUCAS  5 161 1     310
                Open 34189 OTTUMWA5 161 34192 LUCAS  5 161 1                          -0.10139 -0.00770    27.5    33.1
1778   -714.3 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -59.4   -58.0 -0.00195         -0.00273   -56.6   -54.7
              C:34202 LUCAS  869.0 34559 LUCAS  Y 161 1     327
                Open 34202 LUCAS  869.0 34559 LUCAS  Y 161 1                           0.10139  0.00770   -27.4   -32.9
1779   -714.3 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -59.4   -58.0 -0.00195         -0.00273   -56.6   -54.7
              C:34192 LUCAS  5 161 34559 LUCAS  Y 161 1     314
                Open 34192 LUCAS  5 161 34559 LUCAS  Y 161 1                          -0.10139 -0.00770    27.4    32.9
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1781   -713.7 L:60133 SHEYNNE4 230 66435 FARGO  4 230 1        -397.6  -391.0 -0.00923         -0.00701  -190.0  -185.0
               C:63369 JAMESTN3 345 66791 CENTER 3 345 1    2201
                 Open 63369 JAMESTN3 345 66791 CENTER 3 345 1                          0.47008 -0.00471  -441.7  -438.3
1782   -710.9 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -20.4   -19.3 -0.00150         -0.00094   -16.3   -15.6
               C:60265 LOON TP7 115 60830 EASTWD18 115 P1   1276
                 Open 60265 LOON TP7 115 60830 EASTWD18 115 P1                         0.02172 -0.02554  -187.3  -169.1
1783   -709.0 L:60938 FTRIDGL869.0 62077 SCHLTP 869.0 1          38.4    37.0  0.00196          0.00152    33.3    32.3
               C:60726 GIBBON 869.0 60769 CAIRO R869.0 1    3093
                 Open 60726 GIBBON 869.0 60769 CAIRO R869.0 1                         -0.40947 -0.00106   -12.3   -11.6
1784   -703.8 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -49.3   -48.0 -0.00185         -0.00216   -51.9   -50.4
               C:60110 WILMART7 115 60830 EASTWD18 115 P1    968
                 Open 60110 WILMART7 115 60830 EASTWD18 115 P1                         0.02046  0.01501   128.8   118.3
1787   -697.5 L:60750 OSAKIS 869.0 62820 W UNION869.0 1          37.8    37.0  0.00115          0.00033    23.7    23.5
               C:500                                        3721
                 Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                         -0.07906 -0.01028  -223.5  -216.3
                 Open 62427 WILLMAR869.0 63050 WILLMAR4 230 1                          0.07685  0.00004   -47.0   -47.0
1788   -696.0 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         145.8   144.0  0.00263          0.00232   143.5   141.9
               C:60313 PINE LK7 115 60325 WILOWRV7 115 1    1336
                 Open 60313 PINE LK7 115 60325 WILOWRV7 115 1                         -0.04179 -0.00743   -55.8   -50.6
1789   -693.3 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -211.7  -181.0 -0.04428         -0.04428  -200.5  -169.8
               C:34090 ARNOLD1G22.0 34091 ARNOLD 5 161 1    2777
                 Open 34090 ARNOLD1G22.0 34091 ARNOLD 5 161 1                          0.03041  0.00000  -369.0  -369.0
1790   -687.5 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         145.7   144.0  0.00245          0.00232   143.5   141.9
               C:61906 MAPLE LF 161 61948 BYRON  5 161 1    3374
                 Open 61906 MAPLE LF 161 61948 BYRON  5 161 1                         -0.01116 -0.01198  -196.1  -187.8
1791   -685.6 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         145.3   144.0  0.00193          0.00232   143.5   141.9
               C:60361 ROCKCR 4 230 63048 RUSH CY4 230 1    1370
                 Open 60361 ROCKCR 4 230 63048 RUSH CY4 230 1                          0.05005 -0.00778    36.5    41.8
1792   -684.3*L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -49.3   -48.0 -0.00194         -0.00216   -58.1   -56.6
               C:60790 FAIRPRK869.0 60792 WFARBLT869.0 1    1463
                 Open 60790 FAIRPRK869.0 60792 WFARBLT869.0 1                         -0.13228 -0.00166   -66.5   -65.4
1793   -677.6 L:60170 MARSHAL7 115 60371 ERIE RD7 115 1         131.1   127.9  0.00471          0.00364   106.4   103.9
               C:60371 ERIE RD7 115 60372 SARATOG7 115 1    1372
                 Open 60371 ERIE RD7 115 60372 SARATOG7 115 1                         -0.96689 -0.00110   -25.6   -24.8
1794   -676.0 L:60107 W FARIB7 115 60265 LOON TP7 115 C1       -337.5  -310.0 -0.04066         -0.02016  -151.8  -138.1
               C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                 Open 60108 WILMART3 345 60192 BLUE LK3 345 1                         -0.18109  0.11319  1025.6   949.1
1796   -674.1 L:60809 SJA SWS869.0 62805 STJAMES869.0 1         -38.2   -36.0 -0.00331         -0.00284   -33.5   -31.6
               C:34250 LEWISVL869.0 62799 LWSVLTP869.0 1     405
                 Open 34250 LEWISVL869.0 62799 LWSVLTP869.0 1                          0.50244 -0.00093    -9.4    -8.8
1797   -671.3 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         145.5   144.0  0.00229          0.00232   143.5   141.9
               C:009   2                                    3700
                 Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                          0.00148  0.00781   476.3   471.0
                 Open 60202 COON CK3 345 60272 MPLEGV23 345 1                          0.00349  0.00000     4.2     4.2
                 Open 60114 ELM CRK3 345 60151 MNTCELO3 345 1                         -0.00180  0.01067  -575.5  -582.7
                 Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                          0.00101 -0.01571   221.8   232.3
                 Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                          0.00016 -0.00157   390.0   391.0
                 Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                          0.00333  0.00000     0.2     0.2
                 Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1     NA
1800   -663.3 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -202.5  -181.0 -0.03238         -0.04428  -200.5  -171.1
               C:34093 ARNOLD 3 345 64352 TIFFIN 3 345 1    2780
                 Open 34093 ARNOLD 3 345 64352 TIFFIN 3 345 1                          0.05593  0.21292   -35.7  -176.9
1801   -656.4 L:60809 SJA SWS869.0 60709 STJMSMU869.0 1          38.2    36.0  0.00331          0.00284    33.5    31.6
               C:34250 LEWISVL869.0 62799 LWSVLTP869.0 1     405
                 Open 34250 LEWISVL869.0 62799 LWSVLTP869.0 1                         -0.50244 -0.00093    -9.4    -8.8
1802   -654.9 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -212.3  -181.0 -0.04783         -0.04428  -200.5  -171.5
               C:34079 TRAER  5 161 34087 DYSART 5 161 1     163
                 Open 34079 TRAER  5 161 34087 DYSART 5 161 1                         -0.13930  0.02549    85.1    68.4
1803   -649.6 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -203.5  -181.0 -0.03469         -0.04428  -200.5  -171.7
               C:34018 HAZLTON3 345 34093 ARNOLD 3 345 1      55
                 Open 34018 HAZLTON3 345 34093 ARNOLD 3 345 1                          0.05293  0.18131   -57.7  -175.5
1805   -626.7 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -210.5  -181.0 -0.04707         -0.04428  -200.5  -172.7
               C:34075 ELDORA 7 115 34077 IA FALS7 115 1     160
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                Open 34075 ELDORA 7 115 34077 IA FALS7 115 1                          0.22419 -0.01241   -44.7   -36.9
1806   -619.0 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -209.6  -181.0 -0.04625         -0.04428  -200.5  -173.1
               C:34068 M-TOWN 5 161 34079 TRAER  5 161 1     151
                Open 34068 M-TOWN 5 161 34079 TRAER  5 161 1                         -0.10878  0.01809    84.1    72.9
1807   -618.7 L:60809 SJA SWS869.0 62805 STJAMES869.0 1         -38.8   -36.0 -0.00453         -0.00284   -33.5   -31.8
               C:LAKF-FOX DBL                                3784
                Open 34007 LAKEFLD5 161 34008 FOX LK 5 161 1                         -0.03130  0.02660    81.2    64.8
                Open 34007 LAKEFLD5 161 34008 FOX LK 5 161 2                         -0.03130  0.02728    87.8    70.9
1808   -614.5 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -15.9   -12.0 -0.00637         -0.00453   -10.8    -8.0
               C:34587 MURRAY 869.0 34658 OSCEOLA869.0 1     689
                Open 34587 MURRAY 869.0 34658 OSCEOLA869.0 1                         -0.29929  0.00617    17.0    13.2
1809   -608.4 L:60809 SJA SWS869.0 62805 STJAMES869.0 1         -38.1   -36.0 -0.00351         -0.00284   -33.5   -31.8
               C:34275 WELCOMT869.0 61942 10TH STR69.0 1     441
                Open 34275 WELCOMT869.0 61942 10TH STR69.0 1                         -0.17463  0.00381    26.5    24.1
1810   -605.8 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -49.3   -48.0 -0.00210         -0.00216   -51.9   -50.6
               C:60790 FAIRPRK869.0 60791 FARIBLT869.0 1    1462
                Open 60790 FAIRPRK869.0 60791 FARIBLT869.0 1                         -0.11872 -0.00050   -22.5   -22.2
1811   -605.7 L:60809 SJA SWS869.0 60709 STJMSMU869.0 1          38.7    36.0  0.00453          0.00284    33.5    31.7
               C:LAKF-FOX DBL                                3784
                Open 34007 LAKEFLD5 161 34008 FOX LK 5 161 1                          0.03130  0.02660    81.2    65.1
                Open 34007 LAKEFLD5 161 34008 FOX LK 5 161 2                          0.03130  0.02728    87.8    71.3
1812   -601.7 L:60884 YNGAMER869.0 60931 CARVRCO869.0 1         -47.8   -47.0 -0.00137         -0.00114   -21.7   -21.0
               C:710   2                                     3747
                Open 60206 CROWRVR7 115 62925 DICKNSN7 115 1                          0.00635  0.00542  -130.0  -133.3
                Open 62667 ST BONI7 115 62925 DICKNSN7 115 1                          0.52541  0.00422   -65.0   -67.5
                Open 60277 WWACNIA7 115 62667 ST BONI7 115 1                         -0.59821  0.00414   -14.7   -17.2
                Open 62667 ST BONI7 115 63021 ST BONI869.0 1                          0.53001  0.00000     0.1     0.1
1813   -601.2 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -15.8   -12.0 -0.00637         -0.00453   -10.8    -8.1
               C:34658 OSCEOLA869.0 34659 OSCEREC869.0 1     755
                Open 34658 OSCEOLA869.0 34659 OSCEREC869.0 1                         -0.29929  0.00617    16.7    13.0
1814   -600.0 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         145.2   144.0  0.00193          0.00232   143.5   142.1
               C:765                                         3763
                Open 60237 REDROCK4 230 63048 RUSH CY4 230 1                         -0.00269  0.00122    45.3    44.5
                Open 60236 REDROCK3 345 60237 REDROCK4 230 1                         -0.00006  0.00000     0.0     0.0
                Open 60361 ROCKCR 4 230 63048 RUSH CY4 230 1                          0.04894 -0.00778    36.5    41.1
1815   -599.7 L:60756 ALBANY 869.0 62838 FARMING869.0 1         -28.0   -27.6 -0.00071         -0.00055   -24.8   -24.5
               C:60705 LUXBGTP869.0 62846 FRHV TP869.0 1    3078
                Open 60705 LUXBGTP869.0 62846 FRHV TP869.0 1                          0.12316 -0.00132   -26.2   -25.4
1816   -595.9 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -208.3  -181.0 -0.04580         -0.04428  -200.5  -174.1
               C:34014 ADAMS  5 161 34015 LIME CK5 161 1      42
                Open 34014 ADAMS  5 161 34015 LIME CK5 161 1                          0.05381 -0.02812  -145.2  -128.5
1817   -591.7 L:60809 SJA SWS869.0 60709 STJMSMU869.0 1          38.1    36.0  0.00351          0.00284    33.5    31.8
               C:34275 WELCOMT869.0 61942 10TH STR69.0 1     441
                Open 34275 WELCOMT869.0 61942 10TH STR69.0 1                          0.17463  0.00381    26.5    24.2
1818   -587.3 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -15.7   -12.0 -0.00637         -0.00453   -10.8    -8.2
               C:34640 WODBURN869.0 34659 OSCEREC869.0 1     739
                Open 34640 WODBURN869.0 34659 OSCEREC869.0 1                          0.29929 -0.00617   -16.4   -12.8
1819   -585.6 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         145.1   144.0  0.00186          0.00232   143.5   142.1
               C:PFA-OPY/LUG7                                3692
                Open 60283 S109   7 115 60298 PARKFLS7 115 1                          0.28950 -0.00061    15.8    16.2
                Open 60283 S109   7 115 60297 OSPREY 7 115 1                         -0.05887  0.00000     0.3     0.3
                Open 60298 PARKFLS7 115 60303 LUGERV 7 115 1                         -0.29760  0.00094    10.0     9.4
                Open 60303 LUGERV 7 115 69120 CRANDPC  115 1                         -0.05077  0.00000     0.1     0.1
1820   -581.1 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -208.6  -181.0 -0.04749         -0.04428  -200.5  -174.7
               C:34006 LAKEFLD3 345 60331 LKFLDXL3 345 1      21
                Open 34006 LAKEFLD3 345 60331 LKFLDXL3 345 1                         -0.02336  0.13721   347.7   267.9
1822   -580.1 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -15.7   -12.0 -0.00637         -0.00453   -10.8    -8.2
               C:34625 LACONA 869.0 34640 WODBURN869.0 1     726
                Open 34625 LACONA 869.0 34640 WODBURN869.0 1                          0.29929 -0.00617   -16.3   -12.7
1823   -580.1 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -15.7   -12.0 -0.00637         -0.00453   -10.8    -8.2
               C:34625 LACONA 869.0 34627 LUCAS T869.0 1     725
                Open 34625 LACONA 869.0 34627 LUCAS T869.0 1                         -0.29929  0.00617    16.3    12.7
1824   -575.1 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -15.7   -12.0 -0.00637         -0.00453   -10.8    -8.2
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                C:34202 LUCAS  869.0 34627 LUCAS T869.0 1     328
                  Open 34202 LUCAS  869.0 34627 LUCAS T869.0 1                          0.29929 -0.00617   -16.2   -12.6
1825   -574.8 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         145.4   144.0  0.00236          0.00232   143.5   142.2
                C:CNC-SHC/BUL3                                 3635
                  Open 60160 SHERCO 3 345 60202 COON CK3 345 1                          0.00203  0.00770   469.4   465.0
                  Open 60202 COON CK3 345 63031 BUNKER 3 345 1                         -0.00301 -0.00793  -300.1  -295.5
1826   -573.6 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -208.0  -181.0 -0.04707         -0.04428  -200.5  -175.1
                C:34075 ELDORA 7 115 34169 WELSBGT7 115 1     161
                  Open 34075 ELDORA 7 115 34169 WELSBGT7 115 1                         -0.22419  0.01241    33.6    26.4
1828   -560.7 L:60264 LOON LK7 115 61976 LOON LK869.0 1          78.0    75.0  0.00538          0.00538    79.0    76.0
                C:61161 BYRON  869.0 61948 BYRON  5 161 1    1681
                  Open 61161 BYRON  869.0 61948 BYRON  5 161 1                         -0.02334  0.00000    43.1    43.1
1829   -560.4 L:60357 MAYNARD7 115 62005 KERKHOT7 115 1          80.2    78.0  0.00395          0.00200    37.9    36.7
                C:63050 WILLMAR4 230 66550 GRANITF4 230 1    2053
                  Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                         -0.18953 -0.01028  -223.5  -217.7
1830   -557.2 L:60264 LOON LK7 115 61976 LOON LK869.0 1          78.0    75.0  0.00542          0.00538    79.0    76.0
                C:60105 PR ISLD3 345 60236 REDROCK3 345 2     950
                  Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                         -0.00251 -0.01722   398.2   407.8
1831   -555.9 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -205.0  -181.0 -0.04309         -0.04428  -200.5  -175.9
                C:34018 HAZLTON3 345 34020 HAZL S 5 161 2      54
                  Open 34018 HAZLTON3 345 34020 HAZL S 5 161 2                         -0.05153 -0.02325    86.8    99.8
1832   -554.3 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -59.9   -58.0 -0.00341         -0.00273   -56.6   -55.1
                C:34060 WNTRST 5 161 66560 CRESTON5 161 1     135
                  Open 34060 WNTRST 5 161 66560 CRESTON5 161 1                          0.06835 -0.00986   -47.8   -42.3
1833   -550.6 L:34385 MC NWT 869.0 34387 MCLPCSS869.0 1          63.8    60.0  0.00695          0.00199    24.9    23.8
                C:34015 LIME CK5 161 34016 EMERY  5 161 1      46
                  Open 34015 LIME CK5 161 34016 EMERY  5 161 1                         -0.15381 -0.03224  -253.3  -235.5
1834   -548.9 L:60264 LOON LK7 115 61976 LOON LK869.0 1          78.0    75.0  0.00538          0.00538    79.0    76.1
                C:60331 LKFLDXL3 345  6015 G263    34.5 1    3026
                  Open 60331 LKFLDXL3 345  6015 G263    34.5 1                          0.01023  0.00000  -104.5  -104.5
1835   -547.2 L:60938 FTRIDGL869.0 62077 SCHLTP 869.0 1          37.8    37.0  0.00150          0.00152    33.3    32.5
                C:60938 FTRIDGL869.0 60940 NW ULM 869.0 1    1548
                  Open 60938 FTRIDGL869.0 60940 NW ULM 869.0 1                          0.32890 -0.00007    13.7    13.7
1836   -545.9 L:60264 LOON LK7 115 61976 LOON LK869.0 1          77.9    75.0  0.00538          0.00538    79.0    76.1
                C:34298 MEDFRDJ869.0 62886 OWATNNA869.0 1     472
                  Open 34298 MEDFRDJ869.0 62886 OWATNNA869.0 1                         -0.21873  0.00000     5.0     5.0
1837   -543.6 L:60264 LOON LK7 115 61976 LOON LK869.0 1          77.9    75.0  0.00538          0.00538    79.0    76.1
                C:60015 ANSON CG 115 60129 SPLT RK7 115 1     940
                  Open 60015 ANSON CG 115 60129 SPLT RK7 115 1                          0.00520  0.00000  -211.2  -211.2
1838   -543.6 L:60264 LOON LK7 115 61976 LOON LK869.0 1          77.9    75.0  0.00538          0.00538    79.0    76.1
                C:60015 ANSON CG 115 61475 ANS TR2Y 115 2     941
                  Open 60015 ANSON CG 115 61475 ANS TR2Y 115 2                          0.00520  0.00000  -211.2  -211.2
1839   -543.0 L:60938 FTRIDGL869.0 62077 SCHLTP 869.0 1          37.8    37.0  0.00150          0.00152    33.3    32.5
                C:60940 NW ULM 869.0 62081 NEW ULM869.0 1    3224
                  Open 60940 NW ULM 869.0 62081 NEW ULM869.0 1                          0.32890 -0.00007    13.6    13.7
1840   -540.4 L:60809 SJA SWS869.0 62805 STJAMES869.0 1         -37.8   -36.0 -0.00331         -0.00284   -33.5   -32.0
                C:34250 LEWISVL869.0 34267 HANSKAT869.0 1     404
                  Open 34250 LEWISVL869.0 34267 HANSKAT869.0 1                         -0.50244  0.00093     8.5     8.0
1841   -537.6 L:60264 LOON LK7 115 61976 LOON LK869.0 1          77.9    75.0  0.00538          0.00538    79.0    76.1
                C:60369 FENTON 7 115  6036 G162    34.5 1    3042
                  Open 60369 FENTON 7 115  6036 G162    34.5 1                          0.00566  0.00000  -199.8  -199.8
1842   -535.7 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -206.0  -181.0 -0.04663         -0.04428  -200.5  -176.8
                C:34061 BNE JCT5 161 64205 FT.DODG5 161 1    2759
                  Open 34061 BNE JCT5 161 64205 FT.DODG5 161 1                          0.06139 -0.03824   -89.6   -69.2
1843   -534.3 L:60264 LOON LK7 115 61976 LOON LK869.0 1          77.9    75.0  0.00538          0.00538    79.0    76.1
                C:67315 COYOTE1G24.0 67316 COYOTE 3 345 1    3616
                  Open 67315 COYOTE1G24.0 67316 COYOTE 3 345 1                          0.00302  0.00000  -380.7  -380.7
1844   -531.5 L:60264 LOON LK7 115 61976 LOON LK869.0 1          77.9    75.0  0.00538          0.00538    79.0    76.2
                C:34279 PRAT T 869.0 34296 STELCTR869.0 1     447
                  Open 34279 PRAT T 869.0 34296 STELCTR869.0 1                         -0.20327  0.00000     5.7     5.7
1845   -531.0 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -204.7  -181.0 -0.04472         -0.04428  -200.5  -177.0
                C:34010 HAYWARD5 161 34015 LIME CK5 161 1      35
                  Open 34010 HAYWARD5 161 34015 LIME CK5 161 1                          0.04187 -0.01032  -101.9   -96.4
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1846   -527.2 L:66298 GRANITF869.0 66551 GRANITF7 115 1         -42.4   -42.0 -0.00071         -0.00071   -32.2   -31.8
              C:62427 WILLMAR869.0 63050 WILLMAR4 230 1    1895
                Open 62427 WILLMAR869.0 63050 WILLMAR4 230 1                          0.21762  0.00004   -47.0   -47.0
1847   -526.1 L:60264 LOON LK7 115 61976 LOON LK869.0 1          77.8    75.0  0.00538          0.00538    79.0    76.2
              C:60287 NOBLES 7 115  6430 G287    34.5 1    3629
                Open 60287 NOBLES 7 115  6430 G287    34.5 1                          0.00596  0.00000  -200.0  -200.0
1848   -524.7 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         145.4   144.0  0.00269          0.00232   143.5   142.3
              C:022       6                                3710
                Open 60186 AS KING3 345 60199 CHIS CO3 345 1                         -0.01174 -0.00505  -237.6  -235.0
                Open 60186 AS KING3 345 60221 KOLMNLK3 345 1                         -0.00791 -0.03909   111.0   131.5
1849   -524.7 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         145.4   144.0  0.00269          0.00232   143.5   142.3
              C:ASK-CHI/KOL3                                   3644
                Open 60186 AS KING3 345 60199 CHIS CO3 345 1                         -0.01174 -0.00505  -237.6  -235.0
                Open 60186 AS KING3 345 60221 KOLMNLK3 345 1                         -0.00791 -0.03909   111.0   131.5
1850   -522.7 L:60809 SJA SWS869.0 60709 STJMSMU869.0 1          37.7    36.0  0.00331          0.00284    33.5    32.0
              C:34250 LEWISVL869.0 34267 HANSKAT869.0 1     404
                Open 34250 LEWISVL869.0 34267 HANSKAT869.0 1                          0.50244  0.00093     8.5     8.0
1851   -521.4 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -189.2  -167.0 -0.04263         -0.03349  -106.4   -89.0
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                         -0.08073  0.11319  1025.6   966.6
1852   -521.4 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -203.8  -181.0 -0.04381         -0.04428  -200.5  -177.4
              C:34036 ROCK CK3 345 36382 QUAD ;   345 1    2737
                Open 34036 ROCK CK3 345 36382 QUAD ;   345 1                          0.00876  0.05461  -384.1  -412.6
1853   -520.0 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -204.0  -181.0 -0.04428         -0.04428  -200.5  -177.4
              C:34021 LANSINGW 161 34024 LANS5 4G22.0 1    2730
                Open 34021 LANSINGW 161 34024 LANS5 4G22.0 1                          0.02178  0.00000  -163.0  -163.0
1854   -511.3 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -203.7  -181.0 -0.04445         -0.04428  -200.5  -177.8
              C:63032 PL VLLY3 345 63070 PL VLLY5 161 1    3404
                Open 63032 PL VLLY3 345 63070 PL VLLY5 161 1                          0.01290 -0.01250  -251.5  -245.1
1855   -505.6 L:60264 LOON LK7 115 61976 LOON LK869.0 1          77.7    75.0  0.00532          0.00538    79.0    76.3
              C:60783 JORDAN 869.0 62684 MERRIAM869.0 1    3138
                Open 60783 JORDAN 869.0 62684 MERRIAM869.0 1                         -0.10049  0.00062    13.3    13.0
1856   -505.6 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -203.4  -181.0 -0.04428         -0.04428  -200.5  -178.1
              C:34098 PR CRK4G18.0 34099 PRAR CK7 115 1    2785
                Open 34098 PR CRK4G18.0 34099 PRAR CK7 115 1                          0.02205  0.00000  -132.0  -132.0
1857   -502.7 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -203.5  -181.0 -0.04480         -0.04428  -200.5  -178.2
              C:ASK-RRK/ECL3                                   3645
                Open 60186 AS KING3 345 60236 REDROCK3 345 1                         -0.00122 -0.01971    56.6    66.5
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                         -0.00707  0.06345   376.0   344.1
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          0.00131 -0.06709  -241.0  -207.2
1858   -502.0 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -202.9  -181.0 -0.04363         -0.04428  -200.5  -178.2
              C:34018 HAZLTON3 345 34019 HAZLTON5 161 1      53
                Open 34018 HAZLTON3 345 34019 HAZLTON5 161 1                         -0.04066 -0.01604    59.7    67.7
1859   -499.5 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         145.2   144.0  0.00231          0.00232   143.5   142.3
              C:60321 HYDROLN7 115 60326 JIMFLS 7 115 1    1352
                Open 60321 HYDROLN7 115 60326 JIMFLS 7 115 1                          0.14792 -0.00006    11.2    11.2
1860   -498.0 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         145.2   144.0  0.00232          0.00232   143.5   142.3
              C:60035 WHT  52G13.8 61481 WHT TR1Y 161 1    2926
                Open 60035 WHT  52G13.8 61481 WHT TR1Y 161 1                         -0.02630  0.00000   -63.0   -63.0
1861   -497.7 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -203.3  -181.0 -0.04479         -0.04428  -200.5  -178.4
              C:050    2                                       3719
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                         -0.00667  0.06345   376.0   344.4
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          0.00129 -0.06709  -241.0  -207.6
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          0.00000 -0.00187    64.8    65.7
1862   -496.7 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -202.7  -181.0 -0.04371         -0.04428  -200.5  -178.5
              C:34029 SALEM  3 345 34030 SALEM  5 161 1      74
                Open 34029 SALEM  3 345 34030 SALEM  5 161 1                         -0.01439 -0.03978   155.3   175.0
1863   -496.7 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -202.7  -181.0 -0.04371         -0.04428  -200.5  -178.5
              C:34029 SALEM  3 345 34036 ROCK CK3 345 1      75
                Open 34029 SALEM  3 345 34036 ROCK CK3 345 1                          0.01439  0.03978  -155.3  -175.0
1864   -496.2 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         145.1   144.0  0.00230          0.00232   143.5   142.3
              C:HYD-EGP/JIM7                                   3697
                Open 60285 EAGLEPT7 115 60321 HYDROLN7 115 1                         -0.00223  0.00439     7.2     5.0
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                Open 60321 HYDROLN7 115 60326 JIMFLS 7 115 1                          0.14822 -0.00006    11.2    11.2
1865   -495.9 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -203.2  -181.0 -0.04474         -0.04428  -200.5  -178.5
               C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                         -0.00720  0.06345   376.0   344.5
1866   -495.4 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         145.1   144.0  0.00223          0.00232   143.5   142.3
               C:60305 EAU CLA5 161 60368 JEFRSRD5 161 1    1320
                Open 60305 EAU CLA5 161 60368 JEFRSRD5 161 1                          0.01615 -0.00540    99.6   102.2
1867   -492.7 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -202.9  -181.0 -0.04441         -0.04428  -200.5  -178.7
               C:34068 M-TOWN 5 161 34528 M-TOWN Y 161 1     153
                Open 34068 M-TOWN 5 161 34528 M-TOWN Y 161 1                          0.06407 -0.00190   -37.5   -36.6
1868   -492.7 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -202.9  -181.0 -0.04441         -0.04428  -200.5  -178.7
               C:34066 M-TOWN 7 115 34528 M-TOWN Y 161 1     147
                Open 34066 M-TOWN 7 115 34528 M-TOWN Y 161 1                         -0.06407  0.00190    37.5    36.6
1869   -492.6 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -202.9  -181.0 -0.04444         -0.04428  -200.5  -178.7
               C:795                                        3768
                Open 60150 MNVLTAP4 230 66550 GRANITF4 230 1                          0.00951 -0.01397  -262.1  -255.2
                Open 60148 MINVALY7 115 60149 MINVALT4 230 C1                        -0.00947  0.00290    16.5    15.0
                Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                         -0.00394  0.00000     0.0     0.0
                Open 60149 MINVALT4 230 60150 MNVLTAP4 230 1     NA
                Open 60742 PANTHER869.0 63054 PANTHER4 230 1                         -0.00518  0.00014   -45.6   -45.6
1870   -492.1 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -203.1  -181.0 -0.04489         -0.04428  -200.5  -178.7
               C:34009 WINBAGO5 161 61932 RUTLAND5 161 1      32
                Open 34009 WINBAGO5 161 61932 RUTLAND5 161 1                          0.01188 -0.05102  -219.8  -194.7
1871   -491.9 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -203.0  -181.0 -0.04472         -0.04428  -200.5  -178.7
               C:050    1                                   3718
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                         -0.00681  0.06345   376.0   344.8
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          0.00064 -0.06709  -241.0  -208.0
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          0.00000 -0.00187    64.8    65.7
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                         -0.00767 -0.00300     0.0     1.5
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                         -0.00876 -0.00148   -22.1   -21.4
1872   -491.7 L:60797 KENYNTP869.0 62389 KENYON 869.0 1         -37.7   -37.0 -0.00140         -0.00161   -25.9   -25.1
               C:60106 PR ISLD5 161 63071 SPRNGCK5 161 1    2939
                Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                         -0.08090 -0.00258   145.8   147.0
1873   -491.6 L:60797 KENYNTP869.0 62389 KENYON 869.0 1         -37.7   -37.0 -0.00140         -0.00161   -25.9   -25.1
               C:60105 PR ISLD3 345 60106 PR ISLD5 161 1     947
                Open 60105 PR ISLD3 345 60106 PR ISLD5 161 1                         -0.08090 -0.00258   145.8   147.0
1874   -491.1 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -203.1  -181.0 -0.04493         -0.04428  -200.5  -178.7
               C:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1     114
                Open 34051 TOLEDO 7 115 34066 M-TOWN 7 115 1                          0.04202 -0.01538   -61.6   -54.0
1875   -491.0 L:60264 LOON LK7 115 61976 LOON LK869.0 1          77.6    75.0  0.00534          0.00538    79.0    76.4
               C:61968 OWATANA269.0 61972 OWATANA169.0 1    1702
                Open 61968 OWATANA269.0 61972 OWATANA169.0 1                          0.06508 -0.00067   -21.5   -21.2
1876   -489.9 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -202.8  -181.0 -0.04442         -0.04428  -200.5  -178.8
               C:60150 MNVLTAP4 230 63054 PANTHER4 230 1    2955
                Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                         -0.00819  0.01686   278.5   270.3
1877   -489.3 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -202.9  -181.0 -0.04473         -0.04428  -200.5  -178.8
               C:34014 ADAMS  5 161 69526 BVR CRK5 161 1    2720
                Open 34014 ADAMS  5 161 69526 BVR CRK5 161 1                         -0.01957  0.02269   123.1   112.0
1878   -487.9 L:60934 WATOWAN869.0 60284 WATOWAN7 115 P1        -72.8   -70.0 -0.00576          0.00253   -46.8   -48.1
               C:LAKF-FOX DBL                               3784
                Open 34007 LAKEFLD5 161 34008 FOX LK 5 161 1                         -0.15370  0.02660    81.2    68.2
                Open 34007 LAKEFLD5 161 34008 FOX LK 5 161 2                         -0.15370  0.02728    87.8    74.5
1879   -487.3 L:60264 LOON LK7 115 61976 LOON LK869.0 1          77.6    75.0  0.00538          0.00538    79.0    76.4
               C:67101 ANTELOP3 345 67103 ANTEL31G24.0 1    3588
                Open 67101 ANTELOP3 345 67103 ANTEL31G24.0 1                          0.00335  0.00000  -417.8  -417.8
1880   -487.3 L:60264 LOON LK7 115 61976 LOON LK869.0 1          77.6    75.0  0.00538          0.00538    79.0    76.4
               C:67101 ANTELOP3 345 67107 ANTEL32G24.0 1    3589
                Open 67101 ANTELOP3 345 67107 ANTEL32G24.0 1                          0.00335  0.00000  -417.8  -417.8
1881   -485.6 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -19.8   -19.3 -0.00094         -0.00094   -16.3   -15.8
               C:34300 MONTGMY869.0 34310 MONTGG1913.8 1    2837
                Open 34300 MONTGMY869.0 34310 MONTGG1913.8 1                          0.16484  0.00000   -21.0   -21.0
1882   -484.9 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -202.6  -181.0 -0.04456         -0.04428  -200.5  -179.0
               C:66529 WATERTN3 345 66537 WHITE  3 345 1    2501
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                Open 66529 WATERTN3 345 66537 WHITE  3 345 1                          0.00690 -0.04065  -308.9  -289.2
1883   -483.4 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -202.6  -181.0 -0.04475         -0.04428  -200.5  -179.1
               C:34008 FOX LK 5 161 61932 RUTLAND5 161 1      28
                Open 34008 FOX LK 5 161 61932 RUTLAND5 161 1                         -0.00965  0.04814   223.4   200.1
1884   -482.4 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -202.4  -181.0 -0.04428         -0.04428  -200.5  -179.1
               C:60122 LAWRENC7 115 60834 LAWRENC869.0 1     992
                Open 60122 LAWRENC7 115 60834 LAWRENC869.0 1                         -0.02043  0.00000    92.3    92.3
1885   -482.3 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -202.4  -181.0 -0.04443         -0.04428  -200.5  -179.1
               C:62980 MCLEOD 4 230 63054 PANTHER4 230 1    3396
                Open 62980 MCLEOD 4 230 63054 PANTHER4 230 1                          0.00872 -0.01700  -223.7  -215.5
1886   -482.0 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -48.8   -48.0 -0.00170         -0.00216   -51.9   -50.9
               C:60808 EAGLELK869.0 62679 ELYSNTP869.0 1    3158
                Open 60808 EAGLELK869.0 62679 ELYSNTP869.0 1                          0.14421  0.00315    21.6    20.1
1887   -481.2 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         145.3   144.0  0.00260          0.00232   143.5   142.4
               C:60238 REDROCK7 115 68966 GLENMONT 115 1    2982
                Open 60238 REDROCK7 115 68966 GLENMONT 115 1                          0.03136  0.00902    55.9    51.6
1888   -480.3 L:60264 LOON LK7 115 61976 LOON LK869.0 1          77.7    75.0  0.00554          0.00538    79.0    76.4
               C:34006 LAKEFLD3 345 60286 NOBLES 3 345 C1     20
                Open 34006 LAKEFLD3 345 60286 NOBLES 3 345 C1                         0.00624  0.02531  -218.6  -230.7
1889   -478.9 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -202.3  -181.0 -0.04454         -0.04428  -200.5  -179.3
               C:60265 LOON TP7 115 60830 EASTWD18 115 P1   1276
                Open 60265 LOON TP7 115 60830 EASTWD18 115 P1                         0.00989 -0.02554  -187.3  -175.1
1890   -478.2 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -207.7  -181.0 -0.05584         -0.04428  -200.5  -179.3
               C:34018 HAZLTON3 345 60102 ADAMS  3 345 1      56
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                          0.08140 -0.14203   -88.8   -20.9
1891   -478.2 L:60264 LOON LK7 115 61976 LOON LK869.0 1          77.6    75.0  0.00538          0.00538    79.0    76.4
               C:67118 LARAM31G24.0 67131 LARAMIE3 345 1    3595
                Open 67118 LARAM31G24.0 67131 LARAMIE3 345 1                          0.00269  0.00000  -540.0  -540.0
1892   -477.3 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -207.6  -181.0 -0.05581         -0.04428  -200.5  -179.3
               C:825                                        3774
                Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                         -0.00237 -0.09711   -81.1   -34.8
                Open 34014 ADAMS  5 161 60102 ADAMS  3 345 1                         -0.00000  0.02246     4.5    -6.2
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                          0.08277 -0.14203   -88.8   -21.0
1893   -474.8 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          37.3    36.0  0.00284
                Base Case
1894   -474.5 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -202.3  -181.0 -0.04486         -0.04428  -200.5  -179.5
               C:LAKF-FOX DBL                               3784
                Open 34007 LAKEFLD5 161 34008 FOX LK 5 161 1                         -0.01069  0.02660    81.2    68.6
                Open 34007 LAKEFLD5 161 34008 FOX LK 5 161 2                         -0.01069  0.02728    87.8    74.8
1895   -474.4 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -202.3  -181.0 -0.04494         -0.04428  -200.5  -179.5
               C:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1     145
                Open 34066 M-TOWN 7 115 34085 BLRSTWN7 115 1                         -0.04003  0.01629    45.9    38.2
1896   -474.3 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          82.9    80.0  0.00615          0.00593    78.9    76.1
               C:34211 NEWTON 5 161 34561 NEWTON Y 161 1     354
                Open 34211 NEWTON 5 161 34561 NEWTON Y 161 1                          0.08395  0.00259    47.6    46.4
1897   -473.8 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          82.9    80.0  0.00615          0.00593    78.9    76.1
               C:34212 NEWTON 869.0 34561 NEWTON Y 161 1     355
                Open 34212 NEWTON 869.0 34561 NEWTON Y 161 1                         -0.08395 -0.00259   -47.6   -46.3
1898   -472.5 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -202.2  -181.0 -0.04492         -0.04428  -200.5  -179.6
               C:34010 HAYWARD5 161 61984 AUSTIN 5 161 1    2714
                Open 34010 HAYWARD5 161 61984 AUSTIN 5 161 1                         -0.02191  0.02924    79.9    66.1
1899   -471.3 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.9  -181.0 -0.04436         -0.04428  -200.5  -179.6
               C:500                                        3721
                Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                          0.00767 -0.01028  -223.5  -218.6
                Open 62427 WILLMAR869.0 63050 WILLMAR4 230 1                         -0.00607  0.00004   -47.0   -47.0
1900   -470.8 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.9  -181.0 -0.04436         -0.04428  -200.5  -179.6
               C:66530 WATERTN4 230 66550 GRANITF4 230 1    2503
                Open 66530 WATERTN4 230 66550 GRANITF4 230 1                         -0.00549  0.01320   256.5   250.3
1901   -470.8 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.8  -181.0 -0.04428         -0.04428  -200.5  -179.6
               C:34039 BVRCH52G20.0 34042 BVR CH65 161 1    2739
                Open 34039 BVRCH52G20.0 34042 BVR CH65 161 1                          0.01171  0.00000  -117.0  -117.0
1902   -470.6 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.8  -181.0 -0.04430         -0.04428  -200.5  -179.6
               C:63369 JAMESTN3 345 66791 CENTER 3 345 1    2201
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                Open 63369 JAMESTN3 345 66791 CENTER 3 345 1                          0.00310 -0.00471  -441.7  -439.4
1903   -470.1 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.9  -181.0 -0.04441         -0.04428  -200.5  -179.7
               C:WATERT1T                                   3786
                Open 66236 WATERT1T 345 66237 WATERT1913.8 1     NA
                Open 66236 WATERT1T 345 66529 WATERTN3 345 1                          0.00428 -0.02864  -326.1  -312.6
                Open 66236 WATERT1T 345 66530 WATERTN4 230 1                         -0.01389  0.00000     0.2     0.2
1904   -470.1 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.9  -181.0 -0.04441         -0.04428  -200.5  -179.7
               C:66236 WATERT1T 345 66529 WATERTN3 345 1    2238
                Open 66236 WATERT1T 345 66529 WATERTN3 345 1                          0.00428 -0.02864  -326.1  -312.6
1905   -470.0 L:60264 LOON LK7 115 61976 LOON LK869.0 1          77.4    75.0  0.00520          0.00538    79.0    76.5
               C:60108 WILMART3 345 60110 WILMART7 115 1     956
                Open 60108 WILMART3 345 60110 WILMART7 115 1                         -0.01409  0.01312   112.2   106.0
1906   -470.0 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.9  -181.0 -0.04441         -0.04428  -200.5  -179.7
               C:66236 WATERT1T 345 66530 WATERTN4 230 1    2239
                Open 66236 WATERT1T 345 66530 WATERTN4 230 1                         -0.00428  0.02864   325.9   312.4
1907   -469.4 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -202.1  -181.0 -0.04493         -0.04428  -200.5  -179.7
               C:34051 TOLEDO 7 115 34083 BL.PLN.7 115 1     115
                Open 34051 TOLEDO 7 115 34083 BL.PLN.7 115 1                         -0.04202  0.01538    38.4    31.2
1908   -468.8 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.8  -181.0 -0.04428         -0.04428  -200.5  -179.7
               C:60834 LAWRENC869.0 60863 SF M2 T869.0 1    1493
                Open 60834 LAWRENC869.0 60863 SF M2 T869.0 1                         -0.02043  0.00000    62.7    62.7
1909   -468.3 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.7  -181.0 -0.04428         -0.04428  -200.5  -179.7
               C:34075 ELDORA 7 115 34158 ELDORA 934.5 1    2767
                Open 34075 ELDORA 7 115 34158 ELDORA 934.5 1                         -0.11309  0.00000    11.1    11.1
1910   -468.2 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.8  -181.0 -0.04435         -0.04428  -200.5  -179.7
               C:CNC-KOL/TER3                               3636
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                         -0.00166  0.02473   273.5   261.9
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                         -0.00152  0.01927   549.2   540.2
1911   -468.2 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.8  -181.0 -0.04436         -0.04428  -200.5  -179.7
               C:60356 PAYNES 4 230 63050 WILLMAR4 230 C1   1366
                Open 60356 PAYNES 4 230 63050 WILLMAR4 230 C1                         0.00742 -0.01032  -174.0  -169.2
1912   -468.2 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.8  -181.0 -0.04436         -0.04428  -200.5  -179.7
               C:60156 PYNSVIL7 115 60356 PAYNES 4 230 C1   1069
                Open 60156 PYNSVIL7 115 60356 PAYNES 4 230 C1                         0.00742 -0.01032  -174.0  -169.2
1913   -467.6 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.8  -181.0 -0.04439         -0.04428  -200.5  -179.8
               C:66503 BLAIR  4 230 66530 WATERTN4 230 1    2448
                Open 66503 BLAIR  4 230 66530 WATERTN4 230 1                          0.00577 -0.01853  -222.1  -213.4
1914   -466.0 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.8  -181.0 -0.04469         -0.04428  -200.5  -179.8
               C:34022 LANSING5 161 69531 POSTVIL5 161 1    2734
                Open 34022 LANSING5 161 69531 POSTVIL5 161 1                         -0.04281  0.00951    31.5    27.0
1915   -466.0 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.6  -181.0 -0.04430         -0.04428  -200.5  -179.8
               C:63358 BUFFALO3 345 63369 JAMESTN3 345 1    2197
                Open 63358 BUFFALO3 345 63369 JAMESTN3 345 1                          0.00310 -0.00471  -375.7  -373.5
1916   -465.7 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.7  -181.0 -0.04436         -0.04428  -200.5  -179.9
               C:022       3                                3707
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                         -0.00174  0.02473   273.5   262.0
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                         -0.00163  0.01927   549.2   540.3
                Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                          0.00013  0.00023   225.9   225.8
                Open 60251 TERMINL3 345 61491 TERMID2Y 345 1                          0.00041 -0.00173   381.0   381.8
                Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                         -0.00264  0.00000     0.2     0.2
                Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
1917   -465.2 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.7  -181.0 -0.04440         -0.04428  -200.5  -179.9
               C:60309 MRSHLND5 161 69543 ALMA   5 161 1    3014
                Open 60309 MRSHLND5 161 69543 ALMA   5 161 1                          0.00869 -0.01293  -135.2  -129.2
1918   -465.2 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.6  -181.0 -0.04428         -0.04428  -200.5  -179.9
               C:34395 EMERY S869.0 34403 CL LAKT869.0 1     552
                Open 34395 EMERY S869.0 34403 CL LAKT869.0 1                         -0.04442  0.00000    25.3    25.3
1919   -465.0 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.6  -181.0 -0.04430         -0.04428  -200.5  -179.9
               C:63358 BUFFALO3 345 66792 MAPLE R3 345 1    2198
                Open 63358 BUFFALO3 345 66792 MAPLE R3 345 1                         -0.00310  0.00471   362.1   359.9
1920   -465.0 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.6  -181.0 -0.04434         -0.04428  -200.5  -179.9
               C:63050 WILLMAR4 230 66550 GRANITF4 230 1    2053
                Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                          0.00509 -0.01028  -223.5  -218.7
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1921   -464.9 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.6  -181.0 -0.04433         -0.04428  -200.5  -179.9
               C:63327 HANKSON4 230 63329 WAHPETN4 230 1    2192
                 Open 63327 HANKSON4 230 63329 WAHPETN4 230 1                          -0.00439  0.01075   257.3   252.3
1922   -464.7 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.6  -181.0 -0.04428         -0.04428  -200.5  -179.9
               C:60851 SX FLS 869.0 60863 SF M2 T869.0 1    1508
                 Open 60851 SX FLS 869.0 60863 SF M2 T869.0 1                          -0.02043  0.00000    53.9    53.9
1923   -464.2 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -202.0  -181.0 -0.04532         -0.04428  -200.5  -179.9
               C:34084 PARNEL 5 161 34185 POWESHK5 161 1     173
                 Open 34084 PARNEL 5 161 34185 POWESHK5 161 1                           0.02382 -0.04352   -65.5   -45.3
1924   -464.1 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.6  -181.0 -0.04444         -0.04428  -200.5  -179.9
               C:60107 W FARIB7 115 60265 LOON TP7 115 C1    952
                 Open 60107 W FARIB7 115 60265 LOON TP7 115 C1                          0.00753 -0.02016  -151.8  -142.4
1925   -463.8 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.5  -181.0 -0.04428         -0.04428  -200.5  -179.9
               C:535       1                                3724
                 Open 60134 SHEYNNE7 115 60135 CASS CO7 115 1                           0.00005 -0.00005    74.8    74.8
                 Open 60134 SHEYNNE7 115 66761 MODEROW7 115 1                           0.00005 -0.00005    84.9    84.9
                 Open 60135 CASS CO7 115 66761 MODEROW7 115 1     NA
                 Open 60135 CASS CO7 115 60137 REDRIVR7 115 1                          -0.01084  0.00000    98.8    98.8
1926   -462.8 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.6  -181.0 -0.04461         -0.04428  -200.5  -180.0
               C:39244 ARP 345  345 60304 EAU CL 3 345 1    2891
                 Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.00485 -0.06709  -241.0  -209.9
1927   -462.7 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.7  -181.0 -0.04467         -0.04428  -200.5  -180.0
               C:34010 HAYWARD5 161 34014 ADAMS  5 161 1      34
                 Open 34010 HAYWARD5 161 34014 ADAMS  5 161 1                          -0.01737  0.02214    68.7    58.4
1928   -462.4 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.7  -181.0 -0.04476         -0.04428  -200.5  -180.0
               C:34191 REASNOR5 161 64062 DMOINES5 161 1    2823
                 Open 34191 REASNOR5 161 64062 DMOINES5 161 1                           0.01565 -0.03041   -78.0   -64.0
1929   -462.3 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.5  -181.0 -0.04432         -0.04428  -200.5  -180.0
               C:66503 BLAIR  4 230 66550 GRANITF4 230 1    2449
                 Open 66503 BLAIR  4 230 66550 GRANITF4 230 1                          -0.00372  0.00970   271.9   267.4
1930   -462.2 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -14.0   -13.7 -0.00060         -0.00090   -18.3   -17.8
               C:62944 GOOSETP869.0 63024 MAPLE 1G69.0 1    2019
                 Open 62944 GOOSETP869.0 63024 MAPLE 1G69.0 1                          -0.30521 -0.00099   -14.0   -13.6
1931   -462.1 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.5  -181.0 -0.04439         -0.04428  -200.5  -180.0
               C:60189 BLK DOG4 230 62980 MCLEOD 4 230 1    1121
                 Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                           0.00783 -0.01298  -132.0  -126.0
1932   -462.1 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.5  -181.0 -0.04439         -0.04428  -200.5  -180.0
               C:60189 BLK DOG4 230 60190 BLK DOG7 115 C1   1120
                 Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                          -0.00783  0.01298   132.0   126.0
1933   -462.1 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.5  -181.0 -0.04439         -0.04428  -200.5  -180.0
               C:810   C1                                   3770
                 Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                           0.00783 -0.01298  -132.0  -126.0
                 Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                          -0.00291  0.00000    -0.0    -0.0
1934   -461.8 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -14.0   -13.7 -0.00060         -0.00090   -18.3   -17.8
               C:62935 MAPLELK869.0 63024 MAPLE 1G69.0 1    2010
                 Open 62935 MAPLELK869.0 63024 MAPLE 1G69.0 1                           0.30521  0.00099    14.0    13.6
1935   -461.2 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -202.6  -181.0 -0.04681         -0.04428  -200.5  -180.1
               C:60102 ADAMS  3 345 63032 PL VLLY3 345 1    2936
                 Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                           0.02604 -0.09711   -81.1   -36.3
1936   -458.4 L:60264 LOON LK7 115 61976 LOON LK869.0 1          77.4    75.0  0.00519          0.00538    79.0    76.6
               C:60108 WILMART3 345 60110 WILMART7 115 2     957
                 Open 60108 WILMART3 345 60110 WILMART7 115 2                          -0.01434  0.01343   114.7   108.5
1937   -457.6 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.5  -181.0 -0.04479         -0.04428  -200.5  -180.2
               C:34054 GR JCT 5 161 63771 DRAGER 5 161 1    2751
                 Open 34054 GR JCT 5 161 63771 DRAGER 5 161 1                           0.01376 -0.03698   -74.1   -57.2
1938   -456.8 L:60938 FTRIDGL869.0 62077 SCHLTP 869.0 1          37.9    37.0  0.00194          0.00152    33.3    32.6
               C:795                                        3768
                 Open 60150 MNVLTAP4 230 66550 GRANITF4 230 1                          -0.02336 -0.01397  -262.1  -255.7
                 Open 60148 MINVALY7 115 60149 MINVALT4 230 C1                          0.02791  0.00290    16.5    15.1
                 Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                          -0.01768  0.00000     0.0     0.0
                 Open 60149 MINVALT4 230 60150 MNVLTAP4 230 1     NA
                 Open 60742 PANTHER869.0 63054 PANTHER4 230 1                           0.04452  0.00014   -45.6   -45.6
1939   -456.3 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.5  -181.0 -0.04494         -0.04428  -200.5  -180.3
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              C:34085 BLRSTWN7 115 34099 PRAR CK7 115 1     175
                Open 34085 BLRSTWN7 115 34099 PRAR CK7 115 1                          -0.04003  0.01629    25.6    18.2
1940   -454.9 L:60264 LOON LK7 115 61976 LOON LK869.0 1          77.4    75.0  0.00538          0.00538    79.0    76.6
              C:63000 COAL 41G22.0 63041 COAL CR4 230 1    3398
                Open 63000 COAL 41G22.0 63041 COAL CR4 230 1                           0.00297  0.00000  -530.0  -530.0
1941   -454.4 L:60658 IRONWD8888.0 60665 IRONWD 934.5 1          25.4    25.0  0.00078          0.00036    15.7    15.6
              C:60289 HURLEY 7 115 60350 GINGLES7 115 1    1296
                Open 60289 HURLEY 7 115 60350 GINGLES7 115 1                          -0.35516 -0.00119   -27.1   -26.5
1943   -452.5 L:60264 LOON LK7 115 61976 LOON LK869.0 1          77.4    75.0  0.00538          0.00538    79.0    76.6
              C:63001 COAL 42G22.0 63041 COAL CR4 230 1    3399
                Open 63001 COAL 42G22.0 63041 COAL CR4 230 1                           0.00297  0.00000  -534.3  -534.3
1944   -447.8 L:60264 LOON LK7 115 61976 LOON LK869.0 1          77.4    75.0  0.00538          0.00538    79.0    76.6
              C:34007 LAKEFLD5 161  6006 G262    34.5 1    2712
                Open 34007 LAKEFLD5 161  6006 G262    34.5 1                           0.00807  0.00000  -200.0  -200.0
1945   -443.6 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         145.0   144.0  0.00223          0.00232   143.5   142.5
              C:60318 WHEATON5 161 60368 JEFRSRD5 161 1    1348
                Open 60318 WHEATON5 161 60368 JEFRSRD5 161 1                          -0.01615  0.00540   -92.4   -94.8
1946   -443.5 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -199.3  -181.0 -0.04123         -0.04428  -200.5  -180.8
              C:34089 VINTON 5 161 34091 ARNOLD 5 161 1     177
                Open 34089 VINTON 5 161 34091 ARNOLD 5 161 1                           0.06453  0.04736    18.5    -2.5
1947   -442.5 L:60794 NRSTRND869.0 62389 KENYON 869.0 1          37.9    37.0  0.00196          0.00161    27.2    26.5
              C:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1    1461
                Open 60789 CIRCLTP869.0 60790 FAIRPRK869.0 1                          -0.16360 -0.00216   -65.1   -64.1
1948   -442.3 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         145.0   144.0  0.00223          0.00232   143.5   142.5
              C:60318 WHEATON5 161 60319 WHEATTP5 161 1    1347
                Open 60318 WHEATON5 161 60319 WHEATTP5 161 1                           0.01615 -0.00540    92.2    94.6
1949   -440.7 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         145.0   144.0  0.00223          0.00232   143.5   142.5
              C:840                                        3777
                Open 60318 WHEATON5 161 60368 JEFRSRD5 161 1                          -0.01615  0.00540   -92.4   -94.8
                Open 60318 WHEATON5 161 60319 WHEATTP5 161 1                          -0.03556  0.00000     0.2     0.2
1950   -440.2 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.6  -181.0 -0.04678         -0.04428  -200.5  -181.0
              C:34016 EMERY  5 161 34017 CGORDO_5 161 1      49
                Open 34016 EMERY  5 161 34017 CGORDO_5 161 1                           0.03278 -0.07624   -34.1    -0.5
1951   -439.8 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -200.5  -181.0 -0.04428
                Base Case
1952   -439.4 L:60264 LOON LK7 115 61976 LOON LK869.0 1          77.4    75.0  0.00538          0.00538    79.0    76.7
              C:63314 BIGSTON4 230 63315 BIGSTN1G24.0 1    3460
                Open 63314 BIGSTON4 230 63315 BIGSTN1G24.0 1                           0.00368  0.00000  -450.6  -450.6
1953   -436.2 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -201.7  -181.0 -0.04735         -0.04428  -200.5  -181.2
              C:34066 M-TOWN 7 115 34169 WELSBGT7 115 1     146
                Open 34066 M-TOWN 7 115 34169 WELSBGT7 115 1                           0.16581 -0.01850    -7.1     1.0
1954   -435.8 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         145.0   144.0  0.00235          0.00232   143.5   142.5
              C:60186 AS KING3 345 60199 CHIS CO3 345 1    1113
                Open 60186 AS KING3 345 60199 CHIS CO3 345 1                          -0.00643 -0.00505  -237.6  -235.4
1955   -434.9 L:60264 LOON LK7 115 61976 LOON LK869.0 1          77.3    75.0  0.00538          0.00538    79.0    76.7
              C:34279 PRAT T 869.0 61972 OWATANA169.0 1     448
                Open 34279 PRAT T 869.0 61972 OWATANA169.0 1                          -0.20327  0.00000     8.3     8.3
1956   -433.8 L:63195 BIGSTONY 230 63214 BIGSTON7 115 1         234.9   233.0  0.00446          0.00278   187.9   186.7
              C:66503 BLAIR  4 230 66550 GRANITF4 230 1    2449
                Open 66503 BLAIR  4 230 66550 GRANITF4 230 1                           0.17308  0.00970   271.9   267.7
1957   -431.1 L:60264 LOON LK7 115 61976 LOON LK869.0 1          77.3    75.0  0.00538          0.00538    79.0    76.7
              C:34006 LAKEFLD3 345  3400 G164    34.5 1    2710
                Open 34006 LAKEFLD3 345  3400 G164    34.5 1                           0.00853  0.00000  -199.8  -199.8
1958   -429.4 L:60208 EDINA  7 115 60263 EDEN PR7 115 1        -319.2  -318.0 -0.00290         -0.00290  -288.5  -287.3
              C:60233 PARKERS3 345 61489 PKLMID2Y 345 1    1222
                Open 60233 PARKERS3 345 61489 PKLMID2Y 345 1                          -0.09926 -0.00001   309.4   309.4
1959   -427.1 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         145.0   144.0  0.00232          0.00232   143.5   142.5
              C:60186 AS KING3 345 60187 AS KING7 115 1    1112
                Open 60186 AS KING3 345 60187 AS KING7 115 1                           0.00552  0.00040   270.7   270.6
1960   -425.3 L:63195 BIGSTONY 230 63314 BIGSTON4 230 1        -234.9  -233.0 -0.00446         -0.00278  -187.8  -186.7
              C:66503 BLAIR  4 230 66550 GRANITF4 230 1    2449
                Open 66503 BLAIR  4 230 66550 GRANITF4 230 1                          -0.17308  0.00970   271.9   267.8
1961   -421.8 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         145.1   144.0  0.00260          0.00232   143.5   142.5
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              C:60327 T RIVFL7 115 68966 GLENMONT 115 1    3021
                Open 60327 T RIVFL7 115 68966 GLENMONT 115 1                          -0.03136 -0.00902   -51.0   -47.2
1962   -419.1 L:60208 EDINA  7 115 60263 EDEN PR7 115 1        -319.2  -318.0 -0.00290         -0.00290  -288.5  -287.3
              C:60234 PARKERS7 115 61489 PKLMID2Y 345 1    1226
                Open 60234 PARKERS7 115 61489 PKLMID2Y 345 1                           0.09926  0.00001  -309.1  -309.1
1963   -417.0 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -199.5  -181.0 -0.04428         -0.04428  -200.5  -182.0
              C:34091 ARNOLD 5 161 34105 HIAWATA5 161 1     178
                Open 34091 ARNOLD 5 161 34105 HIAWATA5 161 1                           0.00638  0.00122   159.0   158.4
1964   -416.7 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -198.7  -181.0 -0.04242         -0.04428  -200.5  -182.0
              C:34020 HAZL S 5 161 64269 WASHBRN5 161 1    2729
                Open 34020 HAZL S 5 161 64269 WASHBRN5 161 1                          -0.08562 -0.02178   -21.0   -12.0
1965   -414.1 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -199.0  -181.0 -0.04340         -0.04428  -200.5  -182.1
              C:34028 LORE   5 161 34129 LIBERTY5 161 1      71
                Open 34028 LORE   5 161 34129 LIBERTY5 161 1                          -0.03766 -0.02348   -40.0   -30.3
1966   -411.8 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.9   144.0  0.00226          0.00232   143.5   142.5
              C:60283 S109   7 115 60297 OSPREY 7 115 1    1286
                Open 60283 S109   7 115 60297 OSPREY 7 115 1                          -0.08895  0.00061   -16.1   -16.4
1967   -411.8 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -199.2  -181.0 -0.04428         -0.04428  -200.5  -182.2
              C:66520 OAHE   7 115 66559 OAHE  1G13.8 1    3565
                Open 66520 OAHE   7 115 66559 OAHE  1G13.8 1                          -0.01741  0.00000   -71.4   -71.4
1968   -411.5 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -199.2  -181.0 -0.04428         -0.04428  -200.5  -182.3
              C:66442 GARRISN7 115 66460 GARISN4G13.8 1    3552
                Open 66442 GARRISN7 115 66460 GARISN4G13.8 1                          -0.01311  0.00000   -95.8   -95.8
1969   -411.0 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -199.2  -181.0 -0.04428         -0.04428  -200.5  -182.3
              C:66441 GARRISN4 230 66457 GARISN1G13.8 1    3549
                Open 66441 GARRISN4 230 66457 GARISN1G13.8 1                          -0.01338  0.00000   -95.5   -95.5
1970   -411.0 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -199.2  -181.0 -0.04428         -0.04428  -200.5  -182.3
              C:66441 GARRISN4 230 66458 GARISN2G13.8 1    3550
                Open 66441 GARRISN4 230 66458 GARISN2G13.8 1                          -0.01338  0.00000   -95.5   -95.5
1971   -411.0 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -199.2  -181.0 -0.04428         -0.04428  -200.5  -182.3
              C:66441 GARRISN4 230 66459 GARISN3G13.8 1    3551
                Open 66441 GARRISN4 230 66459 GARISN3G13.8 1                          -0.01338  0.00000   -95.5   -95.5
1972   -410.9 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -199.2  -181.0 -0.04428         -0.04428  -200.5  -182.3
              C:60006 KING 31G20.0 60186 AS KING3 345 1    2899
                Open 60006 KING 31G20.0 60186 AS KING3 345 1                          -0.00222  0.00000  -576.7  -576.7
1973   -410.1 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -199.3  -181.0 -0.04456         -0.04428  -200.5  -182.3
              C:875       1                                3780
                Open 60302 COULEE 5 161 60308 LACROSS5 161 1                           0.00748 -0.00933    41.7    45.5
                Open 69523 GENOA  5 161 69535 LAC TAP5 161 1                           0.01515 -0.01293   106.7   112.0
                Open 60308 LACROSS5 161 69535 LAC TAP5 161 1                           0.00583 -0.00093  -124.7  -124.3
                Open 60309 MRSHLND5 161 69535 LAC TAP5 161 1                           0.00216  0.00000     1.6     1.6
1974   -407.9 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -199.1  -181.0 -0.04428         -0.04428  -200.5  -182.4
              C:67106 LELANDO4 230 67110 LELAN41G22.0 1    3592
                Open 67106 LELANDO4 230 67110 LELAN41G22.0 1                          -0.01396  0.00000  -101.2  -101.2
1975   -407.8 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         233.2   217.0  0.03981          0.03409   188.3   174.4
              C:34015 LIME CK5 161 34016 EMERY  5 161 1      46
                Open 34015 LIME CK5 161 34016 EMERY  5 161 1                          -0.17746 -0.03224  -253.3  -240.1
1976   -407.6 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -199.0  -181.0 -0.04409         -0.04428  -200.5  -182.4
              C:34091 ARNOLD 5 161 34111 FAIRFAX5 161 1     179
                Open 34091 ARNOLD 5 161 34111 FAIRFAX5 161 1                           0.01209  0.01574   124.6   118.2
1977   -407.3 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.9   144.0  0.00232          0.00232   143.5   142.6
              C:60034 WHT  51G13.8 61481 WHT TR1Y 161 1    2925
                Open 60034 WHT  51G13.8 61481 WHT TR1Y 161 1                          -0.02630  0.00000   -55.0   -55.0
1978   -405.9*L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -199.0  -181.0 -0.04428         -0.04428  -200.5  -182.5
              C:34008 FOX LK 5 161 34011 FOXLK53G13.8 1    2713
                Open 34008 FOX LK 5 161 34011 FOXLK53G13.8 1                          -0.01832  0.00000   -82.0   -82.0
1981   -405.4 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         145.1   144.0  0.00260          0.00232   143.5   142.6
              C:830                                            3775
                Open 60238 REDROCK7 115 68966 GLENMONT 115 1                           0.02967  0.00902    55.9    52.3
                Open 60327 T RIVFL7 115 60330 CRYSTAL7 115 1                           0.00202  0.00735    20.3    17.3
                Open 60327 T RIVFL7 115 60328 RIV FLS7 115 1                          -0.02710  0.00000     5.3     5.3
                Open 60327 T RIVFL7 115 68966 GLENMONT 115 1     NA
1985   -400.6 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.9   144.0  0.00226          0.00232   143.5   142.6
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              C:60283 S109   7 115 60298 PARKFLS7 115 1    1287
                Open 60283 S109   7 115 60298 PARKFLS7 115 1                          0.08895 -0.00061    15.8    16.1
1991   -399.9 L:60264 LOON LK7 115 61976 LOON LK869.0 1          77.2    75.0  0.00538          0.00538    79.0    76.9
              C:60331 LKFLDXL3 345 63091 LGS  12Y1.00 1    3023
                Open 60331 LKFLDXL3 345 63091 LGS  12Y1.00 1                          0.01023  0.00000  -182.9  -182.9
1992   -399.9 L:60264 LOON LK7 115 61976 LOON LK869.0 1          77.2    75.0  0.00538          0.00538    79.0    76.9
              C:60331 LKFLDXL3 345 63092 LGS  34Y1.00 1    3024
                Open 60331 LKFLDXL3 345 63092 LGS  34Y1.00 1                          0.01023  0.00000  -182.9  -182.9
1993   -399.9 L:60264 LOON LK7 115 61976 LOON LK869.0 1          77.2    75.0  0.00538          0.00538    79.0    76.9
              C:60331 LKFLDXL3 345 63093 LGS  56Y1.00 1    3025
                Open 60331 LKFLDXL3 345 63093 LGS  56Y1.00 1                          0.01023  0.00000  -182.9  -182.9
2002   -393.6 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          83.0    80.0  0.00751          0.00593    78.9    76.6
              C:34191 REASNOR5 161 64062 DMOINES5 161 1    2823
                Open 34191 REASNOR5 161 64062 DMOINES5 161 1                         -0.05171 -0.03041   -78.0   -66.0
2009   -390.5 L:34016 EMERY  5 161 34395 EMERY S869.0 1         115.3   112.0  0.00851          0.00244    67.6    66.7
              C:34015 LIME CK5 161 34016 EMERY  5 161 1      46
                Open 34015 LIME CK5 161 34016 EMERY  5 161 1                         -0.18838 -0.03224  -253.3  -240.7
2011   -389.8 L:34016 EMERY  5 161 34396 EMERY N869.0 1         115.3   112.0  0.00851          0.00244    67.6    66.7
              C:34015 LIME CK5 161 34016 EMERY  5 161 1      46
                Open 34015 LIME CK5 161 34016 EMERY  5 161 1                         -0.18835 -0.03224  -253.3  -240.7
2012   -388.4 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          14.0    13.7  0.00090
                Base Case
2013   -388.2 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.9   144.0  0.00226          0.00232   143.5   142.6
              C:735  2                                     3755
                Open 60283 S109   7 115 60297 OSPREY 7 115 1                          -0.08895  0.00061   -16.1   -16.4
                Open 60283 S109   7 115 60298 PARKFLS7 115 1                          -0.18616  0.00000     0.3     0.3
2017   -382.6 L:60750 OSAKIS 869.0 62820 W UNION869.0 1          37.4    37.0  0.00115          0.00033    23.7    23.6
              C:60356 PAYNES 4 230 63050 WILLMAR4 230 C1   1366
                Open 60356 PAYNES 4 230 63050 WILLMAR4 230 C1                        -0.07871 -0.01032  -174.0  -170.0
2018   -382.6 L:60750 OSAKIS 869.0 62820 W UNION869.0 1          37.4    37.0  0.00115          0.00033    23.7    23.6
              C:60156 PYNSVIL7 115 60356 PAYNES 4 230 C1   1069
                Open 60156 PYNSVIL7 115 60356 PAYNES 4 230 C1                        -0.07871 -0.01032  -174.0  -170.0
2028   -373.5 L:60831 EASTWD2869.0 62347 EAGLELK869.0 1          73.8    72.0  0.00485          0.00322    61.5    60.3
              C:60107 W FARIB7 115 60265 LOON TP7 115 C1    952
                Open 60107 W FARIB7 115 60265 LOON TP7 115 C1                        -0.08099 -0.02016  -151.8  -144.2
2035   -366.3 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -19.7   -19.3 -0.00117         -0.00094   -16.3   -16.0
              C:60264 LOON LK7 115  6999 WTV1     115 1    2988
                Open 60264 LOON LK7 115  6999 WTV1     115 1                          0.04347 -0.00538   -79.0   -77.1
2036   -366.3 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -19.7   -19.3 -0.00117         -0.00094   -16.3   -16.0
              C:60264 LOON LK7 115 61976 LOON LK869.0 1    1275
                Open 60264 LOON LK7 115 61976 LOON LK869.0 1                         -0.04347  0.00538    79.0    77.1
2037   -363.8 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          82.0    80.0  0.00538          0.00593    78.9    76.8
              C:34202 LUCAS  869.0 64100 KNXVL  869.0 1    2826
                Open 34202 LUCAS  869.0 64100 KNXVL  869.0 1                          0.19404 -0.00284    15.7    16.7
2040   -360.8 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.6   144.0  0.00179          0.00232   143.5   142.7
              C:39706 WIEN     115 60315 T-CRNRS7 115 1    2892
                Open 39706 WIEN     115 60315 T-CRNRS7 115 1                          0.05490 -0.00959    20.9    24.4
2042   -359.6 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.8   144.0  0.00229          0.00232   143.5   142.7
              C:022      11                                 3714
                Open 60199 CHIS CO3 345 60221 KOLMNLK3 345 1                          0.00421 -0.00790   278.9   281.8
                Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 2                          0.00067  0.00023   225.7   225.6
2044   -358.5 L:60756 ALBANY 869.0 62838 FARMING869.0 1         -27.8   -27.6 -0.00064         -0.00055   -24.8   -24.6
              C:63220 ELBOWLK7 115 63221 BRANDN 7 115 1    2104
                Open 63220 ELBOWLK7 115 63221 BRANDN 7 115 1                         -0.03178  0.00296    95.4    94.4
2045   -357.9 L:60208 EDINA  7 115 60263 EDEN PR7 115 1        -319.0  -318.0 -0.00290         -0.00290  -288.5  -287.5
              C:60233 PARKERS3 345 61490 PKLMID1Y 345 1    1223
                Open 60233 PARKERS3 345 61490 PKLMID1Y 345 1                         -0.09886 -0.00001   308.6   308.6
2049   -353.2 L:60814 RAPIDAN869.0 62348 CENTURY869.0 1          71.0    66.0  0.01407          0.00606    17.9    15.8
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                         -0.05727 -0.13974  -926.4  -877.0
2054   -347.7 L:60208 EDINA  7 115 60263 EDEN PR7 115 1        -319.0  -318.0 -0.00290         -0.00290  -288.5  -287.5
              C:60234 PARKERS7 115 61490 PKLMID1Y 345 1    1227
                Open 60234 PARKERS7 115 61490 PKLMID1Y 345 1                          0.09886  0.00001  -308.3  -308.3
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2059   -341.5 L:34383 MC 25ST869.0 34384 MCARMOR869.0 1         -71.4   -69.0 -0.00695         -0.00199   -32.4   -31.7
               C:34015 LIME CK5 161 34016 EMERY  5 161 1      46
                 Open 34015 LIME CK5 161 34016 EMERY  5 161 1                          0.15381 -0.03224  -253.3  -242.3
2060   -341.5 L:34383 MC 25ST869.0 34385 MC NWT 869.0 1          71.4    69.0  0.00695          0.00199    32.4    31.7
               C:34015 LIME CK5 161 34016 EMERY  5 161 1      46
                 Open 34015 LIME CK5 161 34016 EMERY  5 161 1                         -0.15381 -0.03224  -253.3  -242.3
2061   -339.5 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.8   144.0  0.00239          0.00232   143.5   142.7
               C:880                                        3782
                 Open 69523 GENOA  5 161 69527 HARMONY5 161 1                         -0.00853 -0.01090   -46.0   -42.3
                 Open 34021 LANSINGW 161 69523 GENOA  5 161 1                          0.00917 -0.00288   100.3   101.3
2062   -336.7 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.8   144.0  0.00237          0.00232   143.5   142.7
               C:60361 ROCKCR 4 230 61192 ROCKCRK869.0 1    1369
                 Open 60361 ROCKCR 4 230 61192 ROCKCRK869.0 1                          0.09189  0.00053    14.1    14.0
2063   -334.1 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -13.5   -12.0 -0.00453         -0.00453   -10.8    -9.3
               C:34200 CNTRVIL869.0 34573 N CENT8 69.0 1     325
                 Open 34200 CNTRVIL869.0 34573 N CENT8 69.0 1                          0.06304 -0.00000   -42.6   -42.6
2064   -331.7 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.8   144.0  0.00237          0.00232   143.5   142.7
               C:61192 ROCKCRK869.0 61193 HOFFMAN869.0 1    1683
                 Open 61192 ROCKCRK869.0 61193 HOFFMAN869.0 1                          0.09189  0.00053    14.0    13.8
2065   -331.7 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.8   144.0  0.00237          0.00232   143.5   142.7
               C:61184 HOFFMAN934.5 61193 HOFFMAN869.0 1    3354
                 Open 61184 HOFFMAN934.5 61193 HOFFMAN869.0 1                         -0.09189 -0.00053   -14.0   -13.8
2067   -330.3 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -59.1   -58.0 -0.00331         -0.00273   -56.6   -55.7
               C:34650 ARISTAP869.0 34653 CRESTN8_69.0 1     749
                 Open 34650 ARISTAP869.0 34653 CRESTN8_69.0 1                          0.16750 -0.00345   -14.8   -13.6
2068   -329.3 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.7   144.0  0.00226          0.00232   143.5   142.7
               C:009   5                                    3702
                 Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                          0.00255 -0.01571   221.8   226.9
                 Open 60270 MPLEGV13 345 63030 DICKNSN3 345 1                         -0.00190  0.00910  -358.4  -361.4
                 Open 60233 PARKERS3 345 60270 MPLEGV13 345 1                          0.00194  0.00000     1.6     1.6
2070   -328.6 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.7   144.0  0.00227          0.00232   143.5   142.7
               C:61948 BYRON  5 161 61950 BYRON  3 345 1    1697
                 Open 61948 BYRON  5 161 61950 BYRON  3 345 1                         -0.00645  0.00828  -193.4  -196.1
2071   -327.6 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.8   144.0  0.00230          0.00232   143.5   142.7
               C:60114 ELM CRK3 345 60151 MNTCELO3 345 1     974
                 Open 60114 ELM CRK3 345 60151 MNTCELO3 345 1                         -0.00218  0.01067  -575.5  -579.0
2072   -326.5 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.7   144.0  0.00226          0.00232   143.5   142.7
               C:PKL-DKN/ECK3                               3638
                 Open 60233 PARKERS3 345 60270 MPLEGV13 345 1                         -0.00190  0.00910  -356.8  -359.8
                 Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                          0.00255 -0.01571   221.8   226.9
2073   -325.9 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -59.1   -58.0 -0.00331         -0.00273   -56.6   -55.7
               C:34648 LENXTAP869.0 34650 ARISTAP869.0 1     747
                 Open 34648 LENXTAP869.0 34650 ARISTAP869.0 1                          0.16750 -0.00345   -14.7   -13.6
2074   -324.5 L:60808 EAGLELK869.0 62347 EAGLELK869.0 1         -73.8   -72.0 -0.00543         -0.00322   -57.6   -56.5
               C:60265 LOON TP7 115 60830 EASTWD18 115 P1   1276
                 Open 60265 LOON TP7 115 60830 EASTWD18 115 P1                         0.08639 -0.02554  -187.3  -179.0
2075   -322.4 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -59.1   -58.0 -0.00331         -0.00273   -56.6   -55.7
               C:34647 DIAGONL869.0 34648 LENXTAP869.0 1     745
                 Open 34647 DIAGONL869.0 34648 LENXTAP869.0 1                          0.16750 -0.00345   -14.6   -13.5
2076   -313.6 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -59.0   -58.0 -0.00331         -0.00273   -56.6   -55.8
               C:34176 MT AYR 869.0 34647 DIAGONL869.0 1     279
                 Open 34176 MT AYR 869.0 34647 DIAGONL869.0 1                          0.16750 -0.00345   -14.4   -13.4
2077   -310.9 L:60264 LOON LK7 115 61976 LOON LK869.0 1          76.6    75.0  0.00510          0.00538    79.0    77.3
               C:60113 DOME   7 115 60830 EASTWD18 115 P1    972
                 Open 60113 DOME   7 115 60830 EASTWD18 115 P1                         -0.02696  0.01053    90.4    87.2
2078   -310.1 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.7   144.0  0.00233          0.00232   143.5   142.8
               C:60290 ST LAKE5 161 60293 FRMSINN5 161 1    1297
                 Open 60290 ST LAKE5 161 60293 FRMSINN5 161 1                          0.06902  0.00020    17.8    17.7
2080   -309.5 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -66.5   -66.0 -0.00166
                 Base Case
2081   -306.9 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.7   144.0  0.00233          0.00232   143.5   142.8
               C:022     13                                 3716
                 Open 60199 CHIS CO3 345 61493 CHIS D1Y 115 1                         -0.00294 -0.00251  -392.4  -391.6
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                Open 60653 CHIS T1934.5 61493 CHIS D1Y 115 1     NA
                Open 60197 CHIS CO2 500 61493 CHIS D1Y 115 1                          0.00737  0.00000     8.4     8.4
2084   -300.1 L:60264 LOON LK7 115 61976 LOON LK869.0 1          76.5    75.0  0.00510          0.00538    79.0    77.4
              C:60110 WILMART7 115 60113 DOME   7 115 C1    963
                Open 60110 WILMART7 115 60113 DOME   7 115 C1                         -0.02696  0.01053    92.5    89.3
2085   -298.1 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.7   144.0  0.00229          0.00232   143.5   142.8
              C:60199 CHIS CO3 345 60221 KOLMNLK3 345 1    1145
                Open 60199 CHIS CO3 345 60221 KOLMNLK3 345 1                          0.00424 -0.00790   278.9   281.3
2087   -290.9 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.7   144.0  0.00233          0.00232   143.5   142.8
              C:60197 CHIS CO2 500 61493 CHIS D1Y 115 1    1143
                Open 60197 CHIS CO2 500 61493 CHIS D1Y 115 1                          0.00294  0.00251   400.7   400.0
2089   -288.4 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.7   144.0  0.00233          0.00232   143.5   142.8
              C:022     14                                 3717
                Open 60197 CHIS CO2 500 61494 CHIS D2Y 115 1                          0.00294  0.00251   398.6   397.9
                Open 60199 CHIS CO3 345 61494 CHIS D2Y 115 1                          0.00443  0.00000     0.1     0.1
                Open 60654 CHIS T2934.5 61494 CHIS D2Y 115 1     NA
2090   -288.3 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.7   144.0  0.00233          0.00232   143.5   142.8
              C:60197 CHIS CO2 500 61494 CHIS D2Y 115 1    1144
                Open 60197 CHIS CO2 500 61494 CHIS D2Y 115 1                          0.00294  0.00251   398.6   397.9
2091   -288.2 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.7   144.0  0.00233          0.00232   143.5   142.8
              C:60199 CHIS CO3 345 61494 CHIS D2Y 115 1    1147
                Open 60199 CHIS CO3 345 61494 CHIS D2Y 115 1                         -0.00294 -0.00251  -398.5  -397.8
2093   -286.9 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -19.5   -19.3 -0.00085         -0.00094   -16.3   -16.0
              C:34300 MONTGMY869.0 62876 FRLK TP869.0 1     476
                Open 34300 MONTGMY869.0 62876 FRLK TP869.0 1                          0.27659  0.00032   -11.7   -11.8
2094   -285.3 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.7   144.0  0.00229          0.00232   143.5   142.8
              C:60304 EAU CL 3 345 60305 EAU CLA5 161 1    1316
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          0.01781 -0.00187    64.8    65.3
2095   -280.4 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.7   144.0  0.00233          0.00232   143.5   142.8
              C:60199 CHIS CO3 345 61493 CHIS D1Y 115 1    1146
                Open 60199 CHIS CO3 345 61493 CHIS D1Y 115 1                         -0.00294 -0.00251  -392.4  -391.7
2096   -278.7 L:60264 LOON LK7 115 61976 LOON LK869.0 1          76.6    75.0  0.00576          0.00538    79.0    77.5
              C:PRI-BLL/RRK3                                   3648
                Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                         -0.00767 -0.03963    90.2   101.2
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 1                         -0.00442 -0.01690   390.7   395.4
2097   -278.5 L:34012 FOXLAKE869.0 34275 WELCOMT869.0 1          72.6    69.0  0.01303          0.00381    29.8    28.8
              C:34008 FOX LK 5 161 61932 RUTLAND5 161 1      28
                Open 34008 FOX LK 5 161 61932 RUTLAND5 161 1                          0.19162  0.04814   223.4   209.9
2098   -274.7 L:60650 WILMART869.0 60831 EASTWD2869.0 1         116.2   115.0  0.00437          0.00322    68.9    68.1
              C:60650 WILMART869.0 62336 JHNSNTP869.0 1    3043
                Open 60650 WILMART869.0 62336 JHNSNTP869.0 1                          0.47783  0.00242    98.9    98.2
2099   -274.3 L:60208 EDINA  7 115 60263 EDEN PR7 115 1        -322.1  -318.0 -0.01502         -0.00290  -288.5  -287.7
              C:BLL-PRI/IVH3                                   3641
                Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                          0.13389 -0.03963    90.2   101.1
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.14107  0.04835   323.7   310.4
2100   -272.1 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -19.5   -19.3 -0.00085         -0.00094   -16.3   -16.0
              C:34301 NEWPRAG869.0 60936 NPRAG2T869.0 1     477
                Open 34301 NEWPRAG869.0 60936 NPRAG2T869.0 1                         -0.27659 -0.00032    11.7    11.8
2101   -267.2 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.6   144.0  0.00229          0.00232   143.5   142.9
              C:60662 BIGFALL869.0 69035 FLAMBEAU69.0 1    3053
                Open 60662 BIGFALL869.0 69035 FLAMBEAU69.0 1                         -0.07242  0.00045   -15.4   -15.5
2102   -267.1 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -48.5   -48.0 -0.00197         -0.00216   -51.9   -51.4
              C:60808 EAGLELK869.0 62347 EAGLELK869.0 1    3156
                Open 60808 EAGLELK869.0 62347 EAGLELK869.0 1                         -0.05926 -0.00322   -57.6   -56.7
2103   -265.4 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.6   144.0  0.00230          0.00232   143.5   142.9
              C:009   7                                        3704
                Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                          0.00130  0.00781   476.3   474.2
                Open 60202 COON CK3 345 60272 MPLEGV23 345 1                          0.00346  0.00000     4.2     4.2
                Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                          0.00215 -0.01571   221.8   225.9
                Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                          0.00001 -0.00157   390.0   390.4
                Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                          0.00345  0.00000     0.2     0.2
                Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1     NA
2104   -260.4 L:63223 HOOT LK7 115 63233 EDGETAP7 115 1          96.7    96.0  0.00254          0.00076    64.0    63.8
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              C:63051 HENNING4 230 63331 FERGSFL4 230 1    2055
                Open 63051 HENNING4 230 63331 FERGSFL4 230 1                          -0.16358 -0.01090  -199.4  -196.6
2105   -259.6 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -58.9   -58.0 -0.00335         -0.00273   -56.6   -55.9
              C:34060 WNTRST 5 161 64197 NORWLK5  161 1    2757
                Open 34060 WNTRST 5 161 64197 NORWLK5  161 1                          -0.06113  0.01020    36.8    34.2
2106   -258.4 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          91.4    90.0  0.00542          0.00647    86.1    84.4
              C:34174 EICTAP 5 161 64096 BEACON 5 161 1    2815
                Open 34174 EICTAP 5 161 64096 BEACON 5 161 1                           0.05171 -0.02033   102.3   107.5
2107   -258.1 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.5   144.0  0.00207          0.00232   143.5   142.9
              C:875       1                                3780
                Open 60302 COULEE 5 161 60308 LACROSS5 161 1                           0.00675 -0.00933    41.7    44.1
                Open 69523 GENOA  5 161 69535 LAC TAP5 161 1                           0.01370 -0.01293   106.7   110.0
                Open 60308 LACROSS5 161 69535 LAC TAP5 161 1                           0.00541 -0.00093  -124.7  -124.5
                Open 60309 MRSHLND5 161 69535 LAC TAP5 161 1                          -0.01857  0.00000     1.6     1.6
2111   -246.4 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          81.6    80.0  0.00633          0.00593    78.9    77.5
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                          -0.00285 -0.13974  -926.4  -892.0
2112   -244.9 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.6   144.0  0.00231          0.00232   143.5   142.9
              C:60326 JIMFLS 7 115 69157 ANDERSN7 115 1    3020
                Open 60326 JIMFLS 7 115 69157 ANDERSN7 115 1                           0.14792 -0.00006     7.2     7.2
2113   -243.8 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.6   144.0  0.00229          0.00232   143.5   142.9
              C:60304 EAU CL 3 345 60305 EAU CLA5 161 2    1317
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 2                           0.01722 -0.00178    61.6    62.0
2114   -243.4 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.6   144.0  0.00234          0.00232   143.5   142.9
              C:SHC-CNC/BUL3                                   3633
                Open 60160 SHERCO 3 345 60202 COON CK3 345 1                           0.00126  0.00770   469.4   467.6
                Open 60160 SHERCO 3 345 63031 BUNKER 3 345 1                           0.00097  0.00766   498.2   496.3
2115   -237.0 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.5   144.0  0.00215          0.00232   143.5   142.9
              C:60314 PINELKT5 161 60329 CRYSTAL5 161 1    1339
                Open 60314 PINELKT5 161 60329 CRYSTAL5 161 1                          -0.02505  0.00659   -40.4   -42.0
2116   -231.1 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -19.5   -19.3 -0.00085         -0.00094   -16.3   -16.1
              C:60783 JORDAN 869.0 60936 NPRAG2T869.0 1    1454
                Open 60783 JORDAN 869.0 60936 NPRAG2T869.0 1                           0.27659  0.00032   -11.6   -11.7
2117   -230.9 L:62118 SPRLKPK869.0 62132 PRKWOOD869.0 1         -53.3   -53.0 -0.00126         -0.00035   -34.5   -34.4
              C:63040 BLAINE 4 230 63046 BUNKER 4 230 1    2038
                Open 63040 BLAINE 4 230 63046 BUNKER 4 230 1                           0.18766 -0.00485  -100.4   -99.3
2118   -230.9 L:34007 LAKEFLD5 161 34008 FOX LK 5 161 1         169.2   160.0  0.03987          0.02660    81.2    75.1
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                          -0.09499 -0.13974  -926.4  -894.1
2120   -227.3 L:60809 SJA SWS869.0 62805 STJAMES869.0 1         -36.9   -36.0 -0.00404         -0.00284   -33.5   -32.9
              C:34240 DOTSON 869.0 62065 DOTSON 869.0 1     393
                Open 34240 DOTSON 869.0 62065 DOTSON 869.0 1                          -0.52185  0.00229     6.5     6.0
2121   -217.3 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.5   144.0  0.00232          0.00232   143.5   143.0
              C:535       1                                3724
                Open 60134 SHEYNNE7 115 60135 CASS CO7 115 1                           0.00005 -0.00005    74.8    74.8
                Open 60134 SHEYNNE7 115 66761 MODEROW7 115 1                           0.00005 -0.00005    84.9    84.9
                Open 60135 CASS CO7 115 66761 MODEROW7 115 1     NA
                Open 60135 CASS CO7 115 60137 REDRIVR7 115 1                           0.01010  0.00000    98.8    98.8
2122   -217.2 L:66504 BROOKNG7 115 66538 WHITE  7 115 1        -161.0  -160.0 -0.00464         -0.00214  -150.7  -150.2
              C:66505 FLANDRU7 115 66524 SIOUXFL7 115 1    2452
                Open 66505 FLANDRU7 115 66524 SIOUXFL7 115 1                           0.56505 -0.00443   -18.2   -17.3
2123   -214.4 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.5   144.0  0.00235          0.00232   143.5   143.0
              C:60196 CHI    7 115 60199 CHIS CO3 345 1    1138
                Open 60196 CHI    7 115 60199 CHIS CO3 345 1                          -0.00741 -0.00393  -135.8  -134.9
2124   -214.4 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         144.5   144.0  0.00235          0.00232   143.5   143.0
              C:60196 CHI    7 115 60199 CHIS CO3 345 C2   1139
                Open 60196 CHI    7 115 60199 CHIS CO3 345 C2                          -0.00741 -0.00393  -135.8  -134.9
2125   -212.8 L:60809 SJA SWS869.0 60709 STJMSMU869.0 1          36.9    36.0  0.00404          0.00284    33.5    32.8
              C:34240 DOTSON 869.0 62065 DOTSON 869.0 1     393
                Open 34240 DOTSON 869.0 62065 DOTSON 869.0 1                           0.52185  0.00229     6.5     6.0
2126   -198.1 L:34643 GRRIVER869.0 34644 ELLSTNR869.0 1         -13.1   -12.0 -0.00579         -0.00345    -5.8    -5.1
              C:34585 LORIMRR869.0 34586 LORIMOR869.0 1     685
                Open 34585 LORIMRR869.0 34586 LORIMOR869.0 1                          -0.32289  0.00726    22.7    21.3
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2127   -198.1 L:34643 GRRIVER869.0 34644 ELLSTNR869.0 1         -13.1   -12.0 -0.00579         -0.00345    -5.8    -5.1
              C:34585 LORIMRR869.0 34588 SLAKEN 869.0 1     686
                Open 34585 LORIMRR869.0 34588 SLAKEN 869.0 1                          0.32289 -0.00726   -22.7   -21.3
2128   -191.5 L:60208 EDINA  7 115 60263 EDEN PR7 115 1        -319.4  -318.0 -0.00751         -0.00290  -288.5  -288.0
              C:60192 BLUE LK3 345 60217 INVRHLS3 345 1    1126
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.09548  0.04835   323.7   314.4
2129   -188.1 L:60816 BUTERTP869.0 60700 LKCRYST869.0 1          68.6    66.0  0.01407          0.00606    15.6    14.5
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                         -0.05727 -0.13974  -926.4  -900.1
2131   -182.7 L:34643 GRRIVER869.0 34644 ELLSTNR869.0 1         -13.1   -12.0 -0.00579         -0.00345    -5.8    -5.2
              C:34586 LORIMOR869.0 34587 MURRAY 869.0 1     687
                Open 34586 LORIMOR869.0 34587 MURRAY 869.0 1                         -0.32289  0.00726    22.5    21.1
2132   -168.9 L:60170 MARSHAL7 115 60371 ERIE RD7 115 1         128.4   127.9  0.00293          0.00364   106.4   105.7
              C:60287 NOBLES 7 115 60369 FENTON 7 115 C1   1293
                Open 60287 NOBLES 7 115 60369 FENTON 7 115 C1                        -0.09719  0.00735  -226.8  -228.0
2133   -168.7 L:60796 KENYON 869.0 60819 CHERYTP869.0 1          37.6    37.0  0.00373          0.00161    18.4    18.2
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          0.01873  0.11319  1025.6  1006.5
2134   -166.4 L:63219 GRANTCO7 115 66555 MORRIS 7 115 1         -96.5   -96.0 -0.00329         -0.00370   -71.9   -71.2
              C:63219 GRANTCO7 115 63223 HOOT LK7 115 1    2102
                Open 63219 GRANTCO7 115 63223 HOOT LK7 115 1                          0.55356  0.00074   -44.6   -44.7
2135   -160.4 L:60812 BALLARD869.0 62348 CENTURY869.0 1         -68.3   -66.0 -0.01407         -0.00606   -15.2   -14.2
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                          0.05727 -0.13974  -926.4  -904.0
2136   -157.6 L:60810 POHLRDT869.0 60812 BALLARD869.0 1         -68.2   -66.0 -0.01407         -0.00606   -15.2   -14.2
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                          0.05727 -0.13974  -926.4  -904.4
2138   -148.3 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -48.3   -48.0 -0.00197         -0.00216   -51.9   -51.6
              C:60831 EASTWD2869.0 62347 EAGLELK869.0 1    3181
                Open 60831 EASTWD2869.0 62347 EAGLELK869.0 1                          0.05926  0.00322    61.5    61.0
2139   -144.7 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -12.7   -12.0 -0.00481         -0.00453   -10.8   -10.2
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                          0.00202 -0.13974  -926.4  -906.2
2140   -144.3 L:60156 PYNSVIL7 115 60760 PAYNES 869.0 P1          47.1    47.0  0.00076          0.00115    40.4    40.2
              C:60707 BLUEHRN869.0 60717 WAKEFLD869.0 1    1410
                Open 60707 BLUEHRN869.0 60717 WAKEFLD869.0 1                         -0.31523  0.00123   -21.3   -21.4
2141   -144.3 L:60156 PYNSVIL7 115 60760 PAYNES 869.0 P2          47.1    47.0  0.00076          0.00115    40.4    40.2
              C:60707 BLUEHRN869.0 60717 WAKEFLD869.0 1    1410
                Open 60707 BLUEHRN869.0 60717 WAKEFLD869.0 1                         -0.31523  0.00123   -21.3   -21.4
2142   -144.0 L:60208 EDINA  7 115 60263 EDEN PR7 115 1        -318.7  -318.0 -0.00509         -0.00290  -288.5  -288.1
              C:795                                        3768
                Open 60150 MNVLTAP4 230 66550 GRANITF4 230 1                          0.12872 -0.01397  -262.1  -260.1
                Open 60148 MINVALY7 115 60149 MINVALT4 230 C1                        -0.12899  0.00290    16.5    16.0
                Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                          0.13094  0.00000     0.0     0.0
                Open 60149 MINVALT4 230 60150 MNVLTAP4 230 1     NA
                Open 60742 PANTHER869.0 63054 PANTHER4 230 1                         -0.12422  0.00014   -45.6   -45.6
2143   -140.1 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -12.7   -12.0 -0.00491         -0.00453   -10.8   -10.2
              C:34060 WNTRST 5 161 66560 CRESTON5 161 1     135
                Open 34060 WNTRST 5 161 66560 CRESTON5 161 1                          0.03892 -0.00986   -47.8   -46.4
2144   -139.8 L:60750 OSAKIS 869.0 62820 W UNION869.0 1          37.1    37.0  0.00055          0.00033    23.7    23.7
              C:60760 PAYNES 869.0 62824 ZION TP869.0 1    3126
                Open 60760 PAYNES 869.0 62824 ZION TP869.0 1                          0.47053  0.00045    28.3    28.3
2145   -134.0 L:60749 DGLAS C869.0 60750 OSAKIS 869.0 1          37.1    37.0  0.00081          0.00033    26.7    26.7
              C:63050 WILLMAR4 230 66550 GRANITF4 230 1    2053
                Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                         -0.04635 -0.01028  -223.5  -222.1
2146   -128.7 L:60815 GARDNTP869.0 60700 LKCRYST869.0 1         -67.8   -66.0 -0.01407         -0.00606   -14.8   -14.0
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                          0.05727 -0.13974  -926.4  -908.4
2147   -127.3 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          80.8    80.0  0.00605          0.00593    78.9    78.2
              C:34212 NEWTON 869.0 64156 COLFAX 869.0 1    2830
                Open 34212 NEWTON 869.0 64156 COLFAX 869.0 1                          0.28394  0.00043     6.5     6.5
2148   -123.2 L:60814 RAPIDAN869.0 60815 GARDNTP869.0 1         -67.7   -66.0 -0.01407         -0.00606   -14.7   -13.9
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
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                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                          0.05727 -0.13974  -926.4  -909.2
2149   -122.5 L:60938 FTRIDGL869.0 62077 SCHLTP 869.0 1          37.2    37.0  0.00196          0.00152    33.3    33.1
              C:60726 GIBBON 869.0 62075 CORNISH869.0 1    3094
                Open 60726 GIBBON 869.0 62075 CORNISH869.0 1                          0.40947  0.00106     9.5     9.4
2150   -117.5 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          80.9    80.0  0.00741          0.00593    78.9    78.2
              C:34185 POWESHK5 161 34191 REASNOR5 161 1     300
                Open 34185 POWESHK5 161 34191 REASNOR5 161 1                         -0.03105 -0.04760   -62.8   -57.2
2151   -113.2 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          80.7    80.0  0.00593          0.00593    78.9    78.2
              C:34606 GRNL CT869.0 34607 GRNCTTP869.0 1     709
                Open 34606 GRNL CT869.0 34607 GRNCTTP869.0 1                         -0.03575  0.00000   -49.0   -49.0
2152   -111.4 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          80.7    80.0  0.00613          0.00593    78.9    78.3
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          0.00172  0.11319  1025.6  1013.0
2153   -104.9 L:66236 WATERT1T 345 66529 WATERTN3 345 1        -403.1  -400.0 -0.02973         -0.02864  -326.1  -323.1
              C:66504 BROOKNG7 115 66538 WHITE  7 115 1    2451
                Open 66504 BROOKNG7 115 66538 WHITE  7 115 1                          0.51108 -0.00214  -150.7  -150.5
2154   -104.8 L:60938 FTRIDGL869.0 62077 SCHLTP 869.0 1          37.2    37.0  0.00177          0.00152    33.3    33.2
              C:60110 WILMART7 115 60194 CARVRCO7 115 1     964
                Open 60110 WILMART7 115 60194 CARVRCO7 115 1                          0.02828  0.00886   136.3   135.4
2155   -101.5 L:60938 FTRIDGL869.0 62077 SCHLTP 869.0 1          37.2    37.0  0.00190          0.00152    33.3    33.2
              C:60724 HENDRSN869.0 60868 LESR TP869.0 1    3091
                Open 60724 HENDRSN869.0 60868 LESR TP869.0 1                         -0.15259 -0.00249   -25.3   -25.1
2156    -98.8 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          80.6    80.0  0.00614          0.00593    78.9    78.3
              C:34204 JASPER 869.0 34549 JASPER Y 161 1     332
                Open 34204 JASPER 869.0 34549 JASPER Y 161 1                         -0.05018 -0.00409   -33.6   -33.2
2157    -98.8 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          80.6    80.0  0.00614          0.00593    78.9    78.3
              C:34179 JASPER 5 161 34549 JASPER Y 161 1     286
                Open 34179 JASPER 5 161 34549 JASPER Y 161 1                          0.05018  0.00409    33.6    33.2
2158    -98.8 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          80.6    80.0  0.00614          0.00593    78.9    78.3
              C:34204 JASPER 869.0 34574 AURORA 869.0 1     333
                Open 34204 JASPER 869.0 34574 AURORA 869.0 1                          0.05018  0.00409    33.6    33.2
2159    -97.7 L:66236 WATERT1T 345 66530 WATERTN4 230 1         402.9   400.0  0.02973          0.02864   325.9   323.1
              C:66504 BROOKNG7 115 66538 WHITE  7 115 1    2451
                Open 66504 BROOKNG7 115 66538 WHITE  7 115 1                         -0.51108 -0.00214  -150.7  -150.5
2160    -96.3 L:60809 SJA SWS869.0 62805 STJAMES869.0 1         -36.3   -36.0 -0.00351         -0.00284   -33.5   -33.2
              C:61934 RUTLAND 69.0 61942 10TH STR69.0 1    1694
                Open 61934 RUTLAND 69.0 61942 10TH STR69.0 1                          0.17463 -0.00381   -16.2   -15.8
2161    -90.1 L:63327 HANKSON4 230 63329 WAHPETN4 230 1         321.0   320.0  0.01155          0.01075   257.3   256.4
              C:63358 BUFFALO3 345 63369 JAMESTN3 345 1    2197
                Open 63358 BUFFALO3 345 63369 JAMESTN3 345 1                         -0.16957 -0.00471  -375.7  -375.3
2162    -86.6 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          80.6    80.0  0.00649          0.00593    78.9    78.4
              C:34179 JASPER 5 161 64189 NEANKNY5 161 1    2819
                Open 34179 JASPER 5 161 64189 NEANKNY5 161 1                         -0.02666 -0.02084   -61.6   -59.8
2163    -85.7 L:60756 ALBANY 869.0 62838 FARMING869.0 1         -27.7   -27.6 -0.00071         -0.00055   -24.8   -24.8
              C:60705 LUXBGTP869.0 62620 WATKINS869.0 1    3076
                Open 60705 LUXBGTP869.0 62620 WATKINS869.0 1                         -0.12316  0.00132    23.2    23.1
2164    -83.1 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -180.5  -173.0 -0.09056         -0.08696  -156.6  -149.4
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                          0.02579 -0.13974  -926.4  -914.8
2165    -79.6 L:60809 SJA SWS869.0 60709 STJMSMU869.0 1          36.3    36.0  0.00351          0.00284    33.5    33.2
              C:61934 RUTLAND 69.0 61942 10TH STR69.0 1    1694
                Open 61934 RUTLAND 69.0 61942 10TH STR69.0 1                         -0.17463 -0.00381   -16.2   -15.9
2166    -78.8 L:60809 SJA SWS869.0 62805 STJAMES869.0 1         -36.3   -36.0 -0.00404         -0.00284   -33.5   -33.3
              C:62065 DOTSON 869.0 62066 LVNWRTH869.0 1    1722
                Open 62065 DOTSON 869.0 62066 LVNWRTH869.0 1                         -0.52185  0.00229     5.4     5.2
2167    -77.5 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          36.2    36.0  0.00279          0.00284    37.3    37.1
              C:60826 TRAVRSE869.0 62350 TRAVERS869.0 1    3177
                Open 60826 TRAVRSE869.0 62350 TRAVERS869.0 1                         -0.02014  0.00249    56.2    56.0
2168    -77.1 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          36.2    36.0  0.00281          0.00284    37.3    37.1
              C:60650 WILMART869.0 62336 JHNSNTP869.0 1    3043
                Open 60650 WILMART869.0 62336 JHNSNTP869.0 1                         -0.01144  0.00242    98.9    98.7
2169    -73.2 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          36.2    36.0  0.00286          0.00284    37.3    37.1
              C:60286 NOBLES 3 345 60287 NOBLES 7 115 C1   1292
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                Open 60286 NOBLES 3 345 60287 NOBLES 7 115 C1                          0.00267  0.00735  -426.7  -427.3
2170    -70.5 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          90.5    90.0  0.00671          0.00647    86.1    85.7
              C:34211 NEWTON 5 161 34561 NEWTON Y 161 1     354
                Open 34211 NEWTON 5 161 34561 NEWTON Y 161 1                           0.09160  0.00259    47.6    47.4
2171    -70.1 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          90.5    90.0  0.00671          0.00647    86.1    85.7
              C:34212 NEWTON 869.0 34561 NEWTON Y 161 1     355
                Open 34212 NEWTON 869.0 34561 NEWTON Y 161 1                          -0.09160 -0.00259   -47.6   -47.4
2172    -68.0 L:66504 BROOKNG7 115 66538 WHITE  7 115 1        -160.2  -160.0 -0.00357         -0.00214  -150.7  -150.6
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                           0.01029 -0.13974  -926.4  -916.9
2173    -64.3 L:60809 SJA SWS869.0 60709 STJMSMU869.0 1          36.3    36.0  0.00404          0.00284    33.5    33.3
              C:62065 DOTSON 869.0 62066 LVNWRTH869.0 1    1722
                Open 62065 DOTSON 869.0 62066 LVNWRTH869.0 1                           0.52185  0.00229     5.4     5.2
2174    -63.3 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          36.2    36.0  0.00248          0.00284    37.3    37.2
              C:34237 WINDOMT869.0 62798 LKSD TP869.0 1     392
                Open 34237 WINDOMT869.0 62798 LKSD TP869.0 1                          -0.09720  0.00373    12.3    12.0
2175    -63.3 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          36.2    36.0  0.00248          0.00284    37.3    37.2
              C:34237 WINDOMT869.0 34238 WINDMSW869.0 1     391
                Open 34237 WINDOMT869.0 34238 WINDMSW869.0 1                           0.09720 -0.00373   -12.3   -12.0
2176    -62.7 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          90.5    90.0  0.00819          0.00647    86.1    85.7
              C:34191 REASNOR5 161 64062 DMOINES5 161 1    2823
                Open 34191 REASNOR5 161 64062 DMOINES5 161 1                          -0.05642 -0.03041   -78.0   -76.1
2177    -62.1 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          80.3    80.0  0.00553          0.00593    78.9    78.6
              C:34189 OTTUMWA5 161 34192 LUCAS  5 161 1     310
                Open 34189 OTTUMWA5 161 34192 LUCAS  5 161 1                           0.05173 -0.00770    27.5    28.0
2178    -60.6 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          80.3    80.0  0.00553          0.00593    78.9    78.6
              C:34202 LUCAS  869.0 34559 LUCAS  Y 161 1     327
                Open 34202 LUCAS  869.0 34559 LUCAS  Y 161 1                          -0.05173  0.00770   -27.4   -27.8
2179    -60.6 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          80.3    80.0  0.00553          0.00593    78.9    78.6
              C:34192 LUCAS  5 161 34559 LUCAS  Y 161 1     314
                Open 34192 LUCAS  5 161 34559 LUCAS  Y 161 1                           0.05173 -0.00770    27.4    27.8
2180    -49.3 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -12.2   -12.0 -0.00414         -0.00453   -10.8   -10.6
              C:34189 OTTUMWA5 161 34192 LUCAS  5 161 1     310
                Open 34189 OTTUMWA5 161 34192 LUCAS  5 161 1                          -0.05007 -0.00770    27.5    27.9
2181    -47.4 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -12.2   -12.0 -0.00414         -0.00453   -10.8   -10.6
              C:34202 LUCAS  869.0 34559 LUCAS  Y 161 1     327
                Open 34202 LUCAS  869.0 34559 LUCAS  Y 161 1                           0.05007  0.00770   -27.4   -27.7
2182    -47.4 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -12.2   -12.0 -0.00414         -0.00453   -10.8   -10.6
              C:34192 LUCAS  5 161 34559 LUCAS  Y 161 1     314
                Open 34192 LUCAS  5 161 34559 LUCAS  Y 161 1                          -0.05007 -0.00770    27.4    27.7
2183    -29.1 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          36.1    36.0  0.00284          0.00284    37.3    37.3
              C:34006 LAKEFLD3 345  3400 G164    34.5 1    2710
                Open 34006 LAKEFLD3 345  3400 G164    34.5 1                           0.00634  0.00000  -199.8  -199.8
2184    -22.7 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -12.1   -12.0 -0.00488         -0.00453   -10.8   -10.7
              C:34060 WNTRST 5 161 64197 NORWLK5  161 1    2757
                Open 34060 WNTRST 5 161 64197 NORWLK5  161 1                          -0.03486  0.01020    36.8    36.6
2185    -20.3 L:34275 WELCOMT869.0 61942 10TH STR69.0 1          69.3    69.0  0.01303          0.00381    26.5    26.4
              C:34008 FOX LK 5 161 61932 RUTLAND5 161 1      28
                Open 34008 FOX LK 5 161 61932 RUTLAND5 161 1                           0.19162  0.04814   223.4   222.4
2186    -17.8 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -12.1   -12.0 -0.00467         -0.00453   -10.8   -10.7
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          -0.00123  0.11319  1025.6  1023.6
2187    -17.6 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          36.1    36.0  0.00404          0.00284    37.3    37.3
              C:34252 HANSKA 869.0 62069 ALBNJCT869.0 1     410
                Open 34252 HANSKA 869.0 62069 ALBNJCT869.0 1                          -0.52185 -0.00229     2.4     2.5
2188    -15.4 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -12.1   -12.0 -0.00460         -0.00453   -10.8   -10.8
              C:34048 ANITA  5 161 34050 GU CTR 5 161 1     110
                Open 34048 ANITA  5 161 34050 GU CTR 5 161 1                          -0.02227  0.00326    55.9    55.8
2189    -14.5 L:60805 WATRVIL869.0 62679 ELYSNTP869.0 1         -37.1   -37.0 -0.00570         -0.00315   -18.4   -18.3
              C:60265 LOON TP7 115 60830 EASTWD18 115 P1   1276
                Open 60265 LOON TP7 115 60830 EASTWD18 115 P1                          0.09985 -0.02554  -187.3  -186.9
2192    -10.6 L:60264 LOON LK7 115 61976 LOON LK869.0 1          75.1    75.0  0.00538          0.00538    79.0    79.0
              C:60110 WILMART7 115  8006 G261-CT115.0 1    2942
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                Open 60110 WILMART7 115  8006 G261-CT115.0 1                          0.02326  0.00000  -170.5  -170.5
2193    -10.6 L:60264 LOON LK7 115 61976 LOON LK869.0 1          75.1    75.0  0.00538          0.00538    79.0    79.0
              C:60110 WILMART7 115  8007 G261-CT215.0 1    2943
                Open 60110 WILMART7 115  8007 G261-CT215.0 1                          0.02326  0.00000  -170.5  -170.5
2194    -10.0 L:60938 FTRIDGL869.0 62077 SCHLTP 869.0 1          37.0    37.0  0.00169          0.00152    33.3    33.3
              C:62980 MCLEOD 4 230 62981 MCLEOD 7 115 1    2024
                Open 62980 MCLEOD 4 230 62981 MCLEOD 7 115 1                          0.04170  0.00402    88.4    88.4
2195     -8.3 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          36.0    36.0  0.00242          0.00284    37.3    37.3
              C:34010 HAYWARD5 161 34013 WNBAGOS5 161 1      33
                Open 34010 HAYWARD5 161 34013 WNBAGOS5 161 1                          0.01248 -0.03349  -106.4  -106.2
2196      3.1 L:34590 GRDRVRE869.0 34643 GRRIVER869.0 1          12.0    12.0  0.00359          0.00108     5.1     5.1
              C:34587 MURRAY 869.0 34658 OSCEOLA869.0 1     689
                Open 34587 MURRAY 869.0 34658 OSCEOLA869.0 1                          0.40654  0.00617    17.0    17.0
2197      8.9 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -172.2  -173.0 -0.08868         -0.08696  -156.6  -157.4
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                         -0.01518  0.11319  1025.6  1026.6
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SUMMER OFF-PEAK WITH GI-0304

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 *** MUST 6.0   ***  FRI, AUG 06 2004  11:48 ***
     GI-0304 SU OP CASE FROM F07SUOPHX,MAPP 2002 SERIES YR-2007
     SO07AA.GI-0304.SAV. ND 1950, MH 2175, MWSI 1481
Subsys.File gr2.sub
Monit.File  gr2.mon
Contin.File gr2.con
Exclud.File gr2.exc

 *** MUST 6.0   ***  FRI, AUG 06 2004  11:48 ***
     GI-0304 SU OP CASE FROM F07SUOPHX,MAPP 2002 SERIES YR-2007
     SO07AA.GI-0304.SAV. ND 1950, MH 2175, MWSI 1481
Subsys.File gr2.sub
Monit.File  gr2.mon
Contin.File gr2.con
Exclud.File gr2.exc

Study transfer. From GI0304_SOURCE  To GI0304_SINK_SO. Transfer level -     10.0 MW


 Violations report ordered by transfer capability. Total  4146 violations


    N    FCITC L: Limiting constraint                          PreShift    MW       TDF             PTDF =Base Case Flow=
               C: Contingency description                   Ncon   Flow  Rating             LODF             Init   Final
    1 -65374.4 L: 6001 YANKEE 7 115 66337 WHITE2 7 115 1          380.7   310.0  0.00108         -0.00116   326.5   402.6
               C:60119 LKYNKTN7 115 60279 BUFFRID7 115 1     985
                 Open 60119 LKYNKTN7 115 60279 BUFFRID7 115 1                          -0.46078 -0.00487  -117.8   200.9
    2 -18093.0 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1           30.8    19.3  0.00064          0.00055    23.3    13.4
               C:60749 DGLAS C869.0 60750 OSAKIS 869.0 1    1429
                 Open 60749 DGLAS C869.0 60750 OSAKIS 869.0 1                           0.25797  0.00034    29.0    22.9
    3 -18015.8 L:60153 MNTCELO7 115 60269 HASSAN 7 115 1          159.6   140.0  0.00109          0.00086    84.0    68.4
               C:009   2                                    3697
                 Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                            0.02656  0.00782   479.8   338.8
                 Open 60202 COON CK3 345 60272 MPLEGV23 345 1                            0.00110  0.00000     4.2     4.2
                 Open 60114 ELM CRK3 345 60151 MNTCELO3 345 1                           -0.13708  0.01063  -631.1  -822.7
                 Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                           -0.09690 -0.01568   349.1   631.6
                 Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                            0.03053 -0.00156   331.6   359.6
                 Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                           -0.02942  0.00000     0.1     0.1
                 Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1      NA
    4 -17177.0 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1           30.2    19.3  0.00064          0.00055    23.3    13.9
               C:60750 OSAKIS 869.0 62820 W UNION869.0 1    3116
                 Open 60750 OSAKIS 869.0 62820 W UNION869.0 1                           0.25797  0.00034    26.8    21.0
    5 -17019.5 L:62935 MAPLELK869.0 63024 MAPLE 1G69.0 1           34.8    24.3  0.00062          0.00098    12.4    -4.3
               C:62134 ELKR14S869.0 62967 ELKRWS2869.0 1    1776
                 Open 62134 ELKR14S869.0 62967 ELKRWS2869.0 1                           0.49770 -0.00074    44.9    57.5
    6 -17017.9 L:62944 GOOSETP869.0 63024 MAPLE 1G69.0 1         -34.8   -24.3 -0.00062         -0.00098   -12.4     4.3
               C:62134 ELKR14S869.0 62967 ELKRWS2869.0 1    1776
                 Open 62134 ELKR14S869.0 62967 ELKRWS2869.0 1                          -0.49770 -0.00074    44.9    57.5
    7 -16509.2 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1        -105.1   -47.0 -0.00352         -0.00211   -59.2   -24.4
               C:60790 FAIRPRK869.0 60792 WFARBLT869.0 1    1461
                 Open 60790 FAIRPRK869.0 60792 WFARBLT869.0 1                           0.85201 -0.00166   -53.9   -26.6
    8 -13944.8 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1           29.3    19.3  0.00072          0.00055    23.3    15.7
               C:60760 PAYNES 869.0 62824 ZION TP869.0 1    3124
                 Open 60760 PAYNES 869.0 62824 ZION TP869.0 1                           0.38192  0.00045    15.8     9.5
    9 -13922.0 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -24.4   -17.3 -0.00051         -0.00089   -19.8    -7.3
               C:62938 OTSEGO 869.0 63020 ELK RIV869.0 1    2011
                 Open 62938 OTSEGO 869.0 63020 ELK RIV869.0 1                           0.31429  0.00123   -14.6   -31.7
   10 -13546.3 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1           33.4    19.3  0.00104          0.00055    23.3    15.9
               C:60752 BLCKOAK869.0 60754 MELRSMU869.0 1    1431
                 Open 60752 BLCKOAK869.0 60754 MELRSMU869.0 1                           0.62927  0.00078    16.1     5.4
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11 -13379.7 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          28.9    19.3  0.00072          0.00055    23.3    16.0
            C:60768 ELRSATP869.0 62824 ZION TP869.0 1    3131
              Open 60768 ELRSATP869.0 62824 ZION TP869.0 1                          -0.38192 -0.00045   -14.7    -8.7
12 -12372.7 L:66236 WATERT1T 345 66529 WATERTN3 345 1        -485.9  -400.0 -0.00694         -0.02863  -201.3   152.9
            C:60126 SPLT RK3 345 60130 SPLTRTA3 345 1    1001
              Open 60126 SPLT RK3 345 60130 SPLTRTA3 345 1                           0.49367  0.04394  -576.4 -1120.1
13 -12365.3 L:66236 WATERT1T 345 66530 WATERTN4 230 1         485.8   400.0  0.00694          0.02863   201.3  -152.8
            C:60126 SPLT RK3 345 60130 SPLTRTA3 345 1    1001
              Open 60126 SPLT RK3 345 60130 SPLTRTA3 345 1                          -0.49367  0.04394  -576.4 -1119.7
14 -12364.6 L:66236 WATERT1T 345 66529 WATERTN3 345 1        -485.8  -400.0 -0.00694         -0.02863  -201.3   152.7
            C:60130 SPLTRTA3 345 66537 WHITE  3 345 1    1008
              Open 60130 SPLTRTA3 345 66537 WHITE  3 345 1                           0.49367  0.04394  -576.3 -1119.6
15 -12357.2 L:66236 WATERT1T 345 66530 WATERTN4 230 1         485.7   400.0  0.00694          0.02863   201.3  -152.5
            C:60130 SPLTRTA3 345 66537 WHITE  3 345 1    1008
              Open 60130 SPLTRTA3 345 66537 WHITE  3 345 1                          -0.49367  0.04394  -576.3 -1119.3
16 -12297.0 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          27.9    19.3  0.00070          0.00055    23.3    16.6
            C:63222 ALEXAND7 115 67452 ALEXSS   115 1    2104
              Open 63222 ALEXAND7 115 67452 ALEXSS   115 1                          -0.05201 -0.00296   -89.1   -52.7
17 -12030.3 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -70.6   -47.0 -0.00196         -0.00211   -59.2   -33.8
            C:SPC-PRI/CTF5                               3682
              Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                          -0.11211 -0.00257   118.9   149.9
              Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                          -0.04611  0.00307   -41.1   -78.0
18 -12014.4 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -70.6   -47.0 -0.00196         -0.00211   -59.2   -33.8
            C:740    1                                   3754
              Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                          -0.04611  0.00307   -41.1   -77.9
              Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                          -0.11211 -0.00257   118.9   149.8
              Open 60103 CANNFLS5 161 60104 CANNFLS7 115 1                           0.06923  0.00000     0.4     0.4
19 -11939.6 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          27.9    19.3  0.00072          0.00055    23.3    16.8
            C:60753 MEIRGRV869.0 60768 ELRSATP869.0 1    1432
              Open 60753 MEIRGRV869.0 60768 ELRSATP869.0 1                          -0.38192 -0.00045   -12.0    -6.7
20 -11718.3 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -69.2   -47.0 -0.00189         -0.00211   -59.2   -34.5
            C:60105 PR ISLD3 345 60106 PR ISLD5 161 1     947
              Open 60105 PR ISLD3 345 60106 PR ISLD5 161 1                          -0.08418 -0.00257   118.9   149.1
21 -11718.3 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -69.2   -47.0 -0.00189         -0.00211   -59.2   -34.5
            C:60106 PR ISLD5 161 63071 SPRNGCK5 161 1    2936
              Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                          -0.08418 -0.00257   118.9   149.1
22 -11358.4 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          27.5    19.3  0.00072          0.00055    23.3    17.1
            C:60752 BLCKOAK869.0 60753 MEIRGRV869.0 1    1430
              Open 60752 BLCKOAK869.0 60753 MEIRGRV869.0 1                          -0.38192 -0.00045   -10.9    -5.8
23 -11052.9 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -170.0  -127.9 -0.00381         -0.00474  -109.8   -57.3
            C:60286 NOBLES 3 345 60287 NOBLES 7 115 C1   1291
              Open 60286 NOBLES 3 345 60287 NOBLES 7 115 C1                          0.12650  0.00735  -476.5  -557.7
24 -11023.6 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          27.0    19.3  0.00070          0.00055    23.3    17.3
            C:60144 DGLASCO7 115 63222 ALEXAND7 115 1    1039
              Open 60144 DGLASCO7 115 63222 ALEXAND7 115 1                          -0.05201 -0.00296   -71.9   -39.3
25 -10918.6 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1        -103.3   -66.0 -0.00342         -0.00166   -53.9   -35.8
            C:60791 FARIBLT869.0 60792 WFARBLT869.0 1    1462
              Open 60791 FARIBLT869.0 60792 WFARBLT869.0 1                           0.83431 -0.00211   -59.2   -36.1
26 -10796.2 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -25.9   -17.3 -0.00079         -0.00089   -19.8   -10.1
            C:62134 ELKR14S869.0 62967 ELKRWS2869.0 1    1776
              Open 62134 ELKR14S869.0 62967 ELKRWS2869.0 1                          -0.13539 -0.00074    44.9    52.9
27 -10691.7 L:60208 EDINA  7 115 60263 EDEN PR7 115 1        -349.0  -318.0 -0.00290         -0.00290  -254.6  -223.5
            C:MEL-ALD/CDR7                               3681
              Open 60182 ALDRICH7 115 60227 MEDLAKE7 115 1                           0.62715  0.00000   -34.4   -34.4
              Open 60234 PARKERS7 115 60346 CEDARLK7 115 P1                         -0.62715 -0.00000   116.2   116.2
28 -10686.4 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          26.9    19.3  0.00071          0.00055    23.3    17.4
            C:60717 WAKEFLD869.0 62846 FRHV TP869.0 1    3081
              Open 60717 WAKEFLD869.0 62846 FRHV TP869.0 1                           0.12316  0.00132    29.2    15.1
29 -10562.9 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          26.5    19.3  0.00068          0.00055    23.3    17.5
            C:63329 WAHPETN4 230 63331 FERGSFL4 230 1    2192
              Open 63329 WAHPETN4 230 63331 FERGSFL4 230 1                           0.01197  0.01091   264.8   149.5
30 -10350.7 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          26.0    19.3  0.00064          0.00055    23.3    17.6
            C:63219 GRANTCO7 115 63220 ELBOWLK7 115 1    2099
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              Open 63219 GRANTCO7 115 63220 ELBOWLK7 115 1                          0.03178  0.00296    83.3    52.6
31 -10341.1 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1        -22.6   -17.3 -0.00051         -0.00089   -19.8   -10.5
            C:62929 ALBERTV869.0 62938 OTSEGO 869.0 1    1998
              Open 62929 ALBERTV869.0 62938 OTSEGO 869.0 1                          0.31429  0.00123    -8.8   -21.5
32 -10275.6 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1        -18.9   -13.7 -0.00051         -0.00089   -14.3    -5.2
            C:62938 OTSEGO 869.0 63020 ELK RIV869.0 1    2011
              Open 62938 OTSEGO 869.0 63020 ELK RIV869.0 1                          0.31429  0.00123   -14.6   -27.2
33 -10135.2 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1         26.5    19.3  0.00071          0.00055    23.3    17.7
            C:60705 LUXBGTP869.0 62846 FRHV TP869.0 1    3076
              Open 60705 LUXBGTP869.0 62846 FRHV TP869.0 1                         -0.12316 -0.00132   -26.0   -12.6
34  -9981.7 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1         25.7    19.3  0.00064          0.00055    23.3    17.8
            C:63220 ELBOWLK7 115 63221 BRANDN 7 115 1    2102
              Open 63220 ELBOWLK7 115 63221 BRANDN 7 115 1                          0.03178  0.00296    75.8    46.3
35  -9907.5 L:60208 EDINA  7 115 60263 EDEN PR7 115 1       -340.0  -318.0 -0.00223         -0.00290  -254.6  -225.8
            C:EDP-WSG/WSG7                               3670
              Open 60256 WSTGATE7 115 60263 EDEN PR7 115 1                          0.37642  0.00090  -113.6  -122.5
              Open 60256 WSTGATE7 115 60263 EDEN PR7 115 2                          0.37642  0.00090  -113.6  -122.5
36  -9828.9 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1         24.7    19.3  0.00055          0.00055    23.3    17.9
            C:60002 SHERC33G26.0 60160 SHERCO 3 345 1    2892
              Open 60002 SHERC33G26.0 60160 SHERCO 3 345 1                         -0.00158  0.00000  -875.5  -875.5
37  -9743.8 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1         26.2    19.3  0.00071          0.00055    23.3    18.0
            C:60705 LUXBGTP869.0 62620 WATKINS869.0 1    3074
              Open 60705 LUXBGTP869.0 62620 WATKINS869.0 1                          0.12316  0.00132    23.7    10.9
38  -9738.6 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1         24.7    19.3  0.00056          0.00055    23.3    18.0
            C:60743 BELGRAD869.0 60760 PAYNES 869.0 1    1425
              Open 60743 BELGRAD869.0 60760 PAYNES 869.0 1                         -0.12264 -0.00007   -11.6   -10.9
39  -9646.1 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1         24.4    19.3  0.00053          0.00055    23.3    18.0
            C:60286 NOBLES 3 345 60287 NOBLES 7 115 C1   1291
              Open 60286 NOBLES 3 345 60287 NOBLES 7 115 C1                        -0.00235  0.00735  -476.5  -547.4
40  -9514.8 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1      -1869.4 -1732.0 -0.01444         -0.01764 -1835.3 -1667.5
            C:66752 DRAYTON4 230 66755 PRAIRIE4 230 1    2573
              Open 66752 DRAYTON4 230 66755 PRAIRIE4 230 1                         -0.37964 -0.00844    89.7   170.0
41  -9469.0 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1         25.4    19.3  0.00064          0.00055    23.3    18.1
            C:63221 BRANDN 7 115 67452 ALEXSS   115 1    2103
              Open 63221 BRANDN 7 115 67452 ALEXSS   115 1                          0.03178  0.00296    65.5    37.4
42  -9423.6 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1         24.5    19.3  0.00056          0.00055    23.3    18.1
            C:60743 BELGRAD869.0 62827 CROW LK869.0 1    3108
              Open 60743 BELGRAD869.0 62827 CROW LK869.0 1                          0.12264  0.00007    10.1     9.5
43  -9350.3 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1         25.9    19.3  0.00071          0.00055    23.3    18.2
            C:60703 WATKINS869.0 62620 WATKINS869.0 1    3072
              Open 60703 WATKINS869.0 62620 WATKINS869.0 1                         -0.12316 -0.00132   -21.5    -9.1
44  -9321.6 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1         25.4    19.3  0.00065          0.00055    23.3    18.2
            C:63051 HENNING4 230 63331 FERGSFL4 230 1    2053
              Open 63051 HENNING4 230 63331 FERGSFL4 230 1                         -0.00937 -0.01089  -219.8  -118.3
45  -9311.2 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1        -24.0   -19.3 -0.00050         -0.00094   -19.4   -10.6
            C:60890 SCOTTCO869.0 62684 MERRIAM869.0 1    3203
              Open 60890 SCOTTCO869.0 62684 MERRIAM869.0 1                         -0.70912 -0.00062     6.4    12.2
46  -9235.2 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1         24.9    19.3  0.00060          0.00055    23.3    18.2
            C:60133 SHEYNNE4 230 63336 AUDUBON4 230 1    1013
              Open 60133 SHEYNNE4 230 63336 AUDUBON4 230 1                          0.00610  0.00860   253.4   174.0
47  -9206.2 L:60208 EDINA  7 115 60263 EDEN PR7 115 1       -344.7  -318.0 -0.00290         -0.00290  -254.6  -227.8
            C:MEL-ALD/SLP7                               3680
              Open 60182 ALDRICH7 115 60227 MEDLAKE7 115 1                          0.62715  0.00000   -34.4   -34.4
              Open 60234 PARKERS7 115 60346 CEDARLK7 115 P1                        -0.62715 -0.00000   116.2   116.2
              Open 60249 STLSPRK7 115 60346 CEDARLK7 115 P1                         0.56225  0.00000     7.7     7.7
48  -9206.2 L:60208 EDINA  7 115 60263 EDEN PR7 115 1       -344.7  -318.0 -0.00290         -0.00290  -254.6  -227.8
            C:SLP-MEL/PKL7                               3676
              Open 60182 ALDRICH7 115 60249 STLSPRK7 115 P1                        -0.62715 -0.00000    34.4    34.4
              Open 60249 STLSPRK7 115 60346 CEDARLK7 115 P1                         0.62715  0.00000  -108.5  -108.5
              Open 60234 PARKERS7 115 60346 CEDARLK7 115 P1                        -0.06490  0.00000     7.7     7.7
49  -9183.0 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1         25.3    19.3  0.00065          0.00055    23.3    18.3
            C:63051 HENNING4 230 63052 INMAN  4 230 1    2052
              Open 63051 HENNING4 230 63052 INMAN  4 230 1                          0.00937  0.01089   210.2   110.2
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50  -9079.9 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          25.8    19.3  0.00071          0.00055    23.3    18.3
            C:60703 WATKINS869.0 60704 KIMBALL869.0 1    1405
              Open 60703 WATKINS869.0 60704 KIMBALL869.0 1                          0.12316  0.00132    19.9     7.9
51  -9034.8 L:60208 EDINA  7 115 60263 EDEN PR7 115 1        -344.2  -318.0 -0.00290         -0.00290  -254.6  -228.3
            C:SLP-MEL/CDR7                               3677
              Open 60182 ALDRICH7 115 60249 STLSPRK7 115 P1                        -0.62715 -0.00000    34.4    34.4
              Open 60249 STLSPRK7 115 60346 CEDARLK7 115 P1                         0.62715  0.00000  -108.5  -108.5
52  -9012.8 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -29.2   -17.3 -0.00132         -0.00089   -19.8   -11.7
            C:60717 WAKEFLD869.0 62846 FRHV TP869.0 1    3081
              Open 60717 WAKEFLD869.0 62846 FRHV TP869.0 1                         -0.32182  0.00132    29.2    17.3
53  -8962.0 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          24.3    19.3  0.00056          0.00055    23.3    18.4
            C:63369 JAMESTN3 345 66791 CENTER 3 345 1    2199
              Open 63369 JAMESTN3 345 66791 CENTER 3 345 1                         -0.00240 -0.00471  -422.3  -380.1
54  -8850.1 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -24.9   -17.3 -0.00086         -0.00089   -19.8   -11.9
            C:62139 CABLETP869.0 62297 BENTON 869.0 1    1785
              Open 62139 CABLETP869.0 62297 BENTON 869.0 1                          0.15187  0.00024   -33.5   -35.7
55  -8798.7 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -25.0   -17.3 -0.00088         -0.00089   -19.8   -11.9
            C:680    P2                                  3733
              Open 60143 BENTON 7 115 63045 BENTON 4 230 P2                         0.00068  0.00362   -87.6  -119.4
              Open 62297 BENTON 869.0 63045 BENTON 4 230 1                          0.09534  0.00013   -54.4   -55.5
56  -8798.7 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -25.0   -17.3 -0.00088         -0.00089   -19.8   -11.9
            C:680                                        3732
              Open 60143 BENTON 7 115 63045 BENTON 4 230 P2                         0.00068  0.00362   -87.6  -119.4
              Open 62297 BENTON 869.0 63045 BENTON 4 230 1                          0.09534  0.00013   -54.4   -55.5
57  -8796.0 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          25.3    19.3  0.00068          0.00055    23.3    18.5
            C:60189 BLK DOG4 230 60190 BLK DOG7 115 C1   1120
              Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                         0.01050  0.01298   192.3    78.1
58  -8796.0 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          25.3    19.3  0.00068          0.00055    23.3    18.5
            C:60189 BLK DOG4 230 62980 MCLEOD 4 230 1    1121
              Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                         -0.01050 -0.01298  -192.3   -78.1
59  -8796.0 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          25.3    19.3  0.00068          0.00055    23.3    18.5
            C:810   C1                                   3767
              Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                         -0.01050 -0.01298  -192.3   -78.1
              Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                        -0.00061  0.00000    -0.0    -0.0
60  -8782.5 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          24.9    19.3  0.00063          0.00055    23.3    18.5
            C:63327 HANKSON4 230 63329 WAHPETN4 230 1    2190
              Open 63327 HANKSON4 230 63329 WAHPETN4 230 1                          0.00796  0.01074   196.5   102.1
61  -8704.7 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -25.0   -17.3 -0.00088         -0.00089   -19.8   -12.0
            C:62297 BENTON 869.0 63045 BENTON 4 230 1    3380
              Open 62297 BENTON 869.0 63045 BENTON 4 230 1                          0.09530  0.00013   -54.4   -55.5
62  -8682.5 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          24.7    19.3  0.00063          0.00055    23.3    18.5
            C:63219 GRANTCO7 115 66555 MORRIS 7 115 1    2101
              Open 63219 GRANTCO7 115 66555 MORRIS 7 115 1                         -0.02131 -0.00370   -67.7   -35.6
63  -8559.9 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          25.0    19.3  0.00067          0.00055    23.3    18.6
            C:SCL-SAK/WAK7                               3673
              Open 60157 STCLOUD7 115 60159 STCTPW 7 115 1                         -0.02555 -0.00461   -37.5     1.9
              Open 60154 SAUK RV7 115 60157 STCLOUD7 115 1                         -0.04013 -0.00008   -19.1   -18.4
64  -8478.8 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1863.4 -1732.0 -0.01550         -0.01764 -1835.3 -1685.7
            C:60126 SPLT RK3 345 60130 SPLTRTA3 345 1    1001
              Open 60126 SPLT RK3 345 60130 SPLTRTA3 345 1                          0.04876  0.04394  -576.4  -949.0
65  -8478.4 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1863.4 -1732.0 -0.01550         -0.01764 -1835.3 -1685.7
            C:60130 SPLTRTA3 345 66537 WHITE  3 345 1    1008
              Open 60130 SPLTRTA3 345 66537 WHITE  3 345 1                          0.04876  0.04394  -576.3  -948.8
66  -8463.9 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -20.4   -13.7 -0.00079         -0.00089   -14.3    -6.8
            C:62134 ELKR14S869.0 62967 ELKRWS2869.0 1    1776
              Open 62134 ELKR14S869.0 62967 ELKRWS2869.0 1                         -0.13539 -0.00074    44.9    51.1
67  -8435.3 L:60790 FAIRPRK869.0 60791 FARIBLT869.0 1         -64.3   -48.0 -0.00194         -0.00050   -17.5   -13.3
            C:60790 FAIRPRK869.0 60792 WFARBLT869.0 1    1461
              Open 60790 FAIRPRK869.0 60792 WFARBLT869.0 1                          0.86772 -0.00166   -53.9   -40.0
68  -8426.9 L:60144 DGLASCO7 115 60749 DGLAS C869.0 P2          54.9    47.0  0.00094          0.00013    28.1    27.0
            C:750                                        3756
              Open 60144 DGLASCO7 115 62817 LSAUKTP7 115 1                          0.25831  0.00269    14.9    -7.7
              Open 60144 DGLASCO7 115 60749 DGLAS C869.0 1                          0.81760  0.00013    28.1    27.0
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69  -8394.6 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          24.6    19.3  0.00064          0.00055    23.3    18.7
            C:60752 BLCKOAK869.0 62847 GROVE  869.0 1    3117
              Open 60752 BLCKOAK869.0 62847 GROVE  869.0 1                          -0.25797 -0.00034    -5.1    -2.3
70  -8326.5 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -63.4   -47.0 -0.00196         -0.00211   -59.2   -41.6
            C:60104 CANNFLS7 115 60801 CNFLSTR869.0 1     946
              Open 60104 CANNFLS7 115 60801 CNFLSTR869.0 1                          -0.12659 -0.00113    33.2    42.6
71  -8278.8 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          25.2    19.3  0.00071          0.00055    23.3    18.8
            C:60704 KIMBALL869.0 60761 SOUTHVN869.0 1    1406
              Open 60704 KIMBALL869.0 60761 SOUTHVN869.0 1                           0.12316  0.00132    15.3     4.4
72  -8236.3 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -28.2   -17.3 -0.00132         -0.00089   -19.8   -12.4
            C:60705 LUXBGTP869.0 62846 FRHV TP869.0 1    3076
              Open 60705 LUXBGTP869.0 62846 FRHV TP869.0 1                           0.32182 -0.00132   -26.0   -15.1
73  -8217.4 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          25.1    19.3  0.00071          0.00055    23.3    18.8
            C:60712 ANNDALE869.0 60761 SOUTHVN869.0 1    1410
              Open 60712 ANNDALE869.0 60761 SOUTHVN869.0 1                          -0.12316 -0.00132   -14.9    -4.1
74  -8049.0 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -57.8   -48.0 -0.00122         -0.00216   -53.9   -36.5
            C:60787 NOFIELD869.0 60801 CNFLSTR869.0 1    1457
              Open 60787 NOFIELD869.0 60801 CNFLSTR869.0 1                           0.50545  0.00185    -7.8   -22.7
75  -8032.0 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -24.6   -17.3 -0.00090         -0.00089   -19.8   -12.6
            C:665                                        3727
              Open 60152 MNTCELO4 230 63043 ELK RIV4 230 1                          -0.01072  0.00329   196.5   170.1
              Open 62134 ELKR14S869.0 63043 ELK RIV4 230 1                           0.02880  0.00086   -92.5   -99.4
76  -7833.7 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -24.0   -17.3 -0.00086         -0.00089   -19.8   -12.8
            C:62138 BRGGLKS869.0 62139 CABLETP869.0 1    1783
              Open 62138 BRGGLKS869.0 62139 CABLETP869.0 1                           0.15187  0.00024   -27.8   -29.7
77  -7746.2 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1865.4 -1732.0 -0.01722         -0.01764 -1835.3 -1698.7
            C:66506 FTTHOMP3 345 67105 LELANDO3 345 1    2451
              Open 66506 FTTHOMP3 345 67105 LELANDO3 345 1                           0.08706  0.00484  -345.5  -383.0
78  -7684.9 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -27.4   -17.3 -0.00132         -0.00089   -19.8   -12.9
            C:60705 LUXBGTP869.0 62620 WATKINS869.0 1    3074
              Open 60705 LUXBGTP869.0 62620 WATKINS869.0 1                          -0.32182  0.00132    23.7    13.6
79  -7670.7 L:62429 PNNCKTP869.0 66298 GRANITF869.0 1         -37.8   -24.3 -0.00176         -0.00071   -15.7   -10.3
            C:63050 WILLMAR4 230 66550 GRANITF4 230 1    2051
              Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                           0.10183 -0.01028  -216.5  -137.7
80  -7609.1 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -23.7   -13.7 -0.00132         -0.00089   -14.3    -7.5
            C:60717 WAKEFLD869.0 62846 FRHV TP869.0 1    3081
              Open 60717 WAKEFLD869.0 62846 FRHV TP869.0 1                          -0.32182  0.00132    29.2    19.1
81  -7542.5 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -63.9   -47.0 -0.00225         -0.00211   -59.2   -43.3
            C:IVH-BLL/RRK3                               3643
              Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.01322  0.04835   476.6   111.9
              Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                           0.00968  0.05190   157.6  -233.9
82  -7542.5 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -63.9   -47.0 -0.00225         -0.00211   -59.2   -43.3
            C:700    2                                   3738
              Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.01322  0.04835   476.6   111.9
              Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                           0.00968  0.05190   157.6  -233.9
83  -7541.4 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -62.6   -47.0 -0.00207         -0.00211   -59.2   -43.3
            C:60217 INVRHLS3 345 60218 INVRHLS7 115 1    1196
              Open 60217 INVRHLS3 345 60218 INVRHLS7 115 1                          -0.01091 -0.00355   316.1   342.9
84  -7508.9 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1864.5 -1732.0 -0.01764         -0.01764 -1835.3 -1702.8
            C:60002 SHERC33G26.0 60160 SHERCO 3 345 1    2892
              Open 60002 SHERC33G26.0 60160 SHERCO 3 345 1                           0.03331  0.00000  -875.5  -875.5
85  -7491.5 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -60.3   -47.0 -0.00178         -0.00211   -59.2   -43.4
            C:60833 SPRCRKT869.0 62387 SPRNGCK869.0 1    3182
              Open 60833 SPRCRKT869.0 62387 SPRNGCK869.0 1                           0.25181  0.00130    -4.7   -14.4
86  -7488.7 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -60.3   -47.0 -0.00178         -0.00211   -59.2   -43.4
            C:60833 SPRCRKT869.0 62384 BLVDMTP869.0 1    3181
              Open 60833 SPRCRKT869.0 62384 BLVDMTP869.0 1                          -0.25181 -0.00130     4.7    14.4
87  -7479.0 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -70.5   -47.0 -0.00315         -0.00211   -59.2   -43.4
            C:60107 W FARIB7 115 61952 S FARIB5 161 1     955
              Open 60107 W FARIB7 115 61952 S FARIB5 161 1                          -0.07126  0.01457   159.6    50.7
88  -7466.0 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          24.4    19.3  0.00068          0.00055    23.3    19.2
            C:60157 STCLOUD7 115 60159 STCTPW 7 115 1    1073
              Open 60157 STCLOUD7 115 60159 STCTPW 7 115 1                          -0.02896 -0.00461   -37.5    -3.1
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 89  -7430.2 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          24.8    19.3  0.00074          0.00055    23.3    19.2
             C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
               Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          0.00173  0.11317   881.7    40.8
 90  -7421.7 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -70.4   -47.0 -0.00315         -0.00211   -59.2   -43.5
             C:61952 S FARIB5 161 61964 OWATNNA5 161 1    1697
               Open 61952 S FARIB5 161 61964 OWATNNA5 161 1                         -0.07126  0.01457   157.1    49.0
 91  -7418.1 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -62.6   -47.0 -0.00211         -0.00211   -59.2   -43.5
             C:60002 SHERC33G26.0 60160 SHERCO 3 345 1    2892
               Open 60002 SHERC33G26.0 60160 SHERCO 3 345 1                          0.00398  0.00000  -875.5  -875.5
 92  -7341.8 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1858.2 -1732.0 -0.01718         -0.01764 -1835.3 -1705.8
             C:67101 ANTELOP3 345 67120 HURON  3 345 1    2595
               Open 67101 ANTELOP3 345 67120 HURON  3 345 1                         -0.07523 -0.00606   303.9   348.4
 93  -7341.8 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1858.2 -1732.0 -0.01718         -0.01764 -1835.3 -1705.8
             C:67120 HURON  3 345 67204 BRDLNDTY 345 1    2613
               Open 67120 HURON  3 345 67204 BRDLNDTY 345 1                         -0.07523 -0.00606   303.9   348.4
 94  -7340.3 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1858.1 -1732.0 -0.01718         -0.01764 -1835.3 -1705.8
             C:67204 BRDLNDTY 345 67205 BRDLAND4 230 1    2635
               Open 67204 BRDLNDTY 345 67205 BRDLAND4 230 1                         -0.07523 -0.00606   303.6   348.0
 95  -7339.4 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1858.1 -1732.0 -0.01718         -0.01764 -1835.3 -1705.8
             C:66514 HURON  4 230 67205 BRDLAND4 230 1    2482
               Open 66514 HURON  4 230 67205 BRDLAND4 230 1                          0.07523  0.00606  -303.4  -347.8
 96  -7301.2 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          23.3    19.3  0.00055
               Base Case
 97  -7300.9 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -62.4   -47.0 -0.00211         -0.00211   -59.2   -43.8
             C:60003 PR IS31G20.0 60105 PR ISLD3 345 1    2893
               Open 60003 PR IS31G20.0 60105 PR ISLD3 345 1                          0.00618  0.00000  -523.2  -523.2
 98  -7297.9 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -62.4   -47.0 -0.00211         -0.00211   -59.2   -43.8
             C:60004 PR IS32G20.0 60105 PR ISLD3 345 1    2894
               Open 60004 PR IS32G20.0 60105 PR ISLD3 345 1                          0.00618  0.00000  -522.2  -522.2
 99  -7285.6 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1856.6 -1732.0 -0.01710         -0.01764 -1835.3 -1706.8
             C:67105 LELANDO3 345 67160 GROTON 3 345 1    2602
               Open 67105 LELANDO3 345 67160 GROTON 3 345 1                         -0.07379 -0.00734   288.3   341.8
100  -7130.6 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -26.7   -17.3 -0.00132         -0.00089   -19.8   -13.4
             C:60703 WATKINS869.0 62620 WATKINS869.0 1    3072
               Open 60703 WATKINS869.0 62620 WATKINS869.0 1                          0.32182 -0.00132   -21.5   -12.1
101  -7102.0 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -66.0   -47.0 -0.00268         -0.00211   -59.2   -44.2
             C:700    1                           3737
               Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                          0.00748 -0.03964  -143.5   138.0
               Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.01499  0.04835   476.6   133.2
               Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                          0.00877  0.05190   157.6  -211.0
102  -7094.6 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          24.3    19.3  0.00071          0.00055    23.3    19.4
             C:60712 ANNDALE869.0 60765 MAPLELK869.0 1    1411
               Open 60712 ANNDALE869.0 60765 MAPLELK869.0 1                          0.12316  0.00132     8.4    -0.9
103  -7066.5 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -23.4   -17.3 -0.00086         -0.00089   -19.8   -13.5
             C:62122 WESTEND869.0 62138 BRGGLKS869.0 1    1763
               Open 62122 WESTEND869.0 62138 BRGGLKS869.0 1                          0.15187  0.00024   -23.5   -25.2
104  -7037.9 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -23.7   -17.3 -0.00090         -0.00089   -19.8   -13.5
             C:60162 WAKEFLD7 115 60717 WAKEFLD869.0 1    1080
               Open 60162 WAKEFLD7 115 60717 WAKEFLD869.0 1                         -0.10122  0.00009    38.1    37.5
105  -7032.2 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1856.0 -1732.0 -0.01764         -0.01764 -1835.3 -1711.3
             C:60006 KING 31G20.0 60186 AS KING3 345 1    2896
               Open 60006 KING 31G20.0 60186 AS KING3 345 1                          0.04497  0.00000  -461.4  -461.4
106  -7009.1 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1848.1 -1732.0 -0.01657         -0.01764 -1835.3 -1711.7
             C:34006 LAKEFLD3 345 60286 NOBLES 3 345 C1     20
               Open 34006 LAKEFLD3 345 60286 NOBLES 3 345 C1                         0.04232  0.02531  -303.2  -480.6
107  -7001.6 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1854.3 -1732.0 -0.01747         -0.01764 -1835.3 -1711.8
             C:66755 PRAIRIE4 230 66758 WINGER 4 230 1    2577
               Open 66755 PRAIRIE4 230 66758 WINGER 4 230 1                         -0.15726 -0.00107   121.0   128.5
108  -6992.4 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -61.9   -47.0 -0.00213         -0.00211   -59.2   -44.4
             C:60905 FRMNGTN869.0 62259 LKMARN 869.0 1    3207
               Open 60905 FRMNGTN869.0 62259 LKMARN 869.0 1                          0.08926 -0.00024   -30.6   -28.9
109  -6987.9 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -84.1   -47.0 -0.00531         -0.00211   -59.2   -44.4
             C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
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                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          -0.02832  0.11317   881.7    90.9
110  -6978.1 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -62.1   -47.0 -0.00216         -0.00211   -59.2   -44.4
             C:60342 WHAST  7 115 62258 WHASTNG869.0 1    3029
                Open 60342 WHAST  7 115 62258 WHASTNG869.0 1                          -0.06828  0.00079    42.9    37.4
111  -6951.6 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1854.6 -1732.0 -0.01764         -0.01764 -1835.3 -1712.7
             C:60000 SHERC31G24.0 60160 SHERCO 3 345 1    2890
                Open 60000 SHERC31G24.0 60160 SHERCO 3 345 1                           0.03331  0.00000  -580.3  -580.3
112  -6929.9 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1854.2 -1732.0 -0.01764         -0.01764 -1835.3 -1713.1
             C:60001 SHERC32G24.0 60160 SHERCO 3 345 1    2891
                Open 60001 SHERC32G24.0 60160 SHERCO 3 345 1                           0.03331  0.00000  -568.8  -568.8
113  -6911.6 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1853.9 -1732.0 -0.01764         -0.01764 -1835.3 -1713.4
             C:60005 MNTCE31G22.0 60151 MNTCELO3 345 1    2895
                Open 60005 MNTCE31G22.0 60151 MNTCELO3 345 1                           0.03259  0.00000  -571.4  -571.4
114  -6906.9 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1848.3 -1732.0 -0.01684         -0.01764 -1835.3 -1713.5
             C:66529 WATERTN3 345 67160 GROTON 3 345 1    2500
                Open 66529 WATERTN3 345 67160 GROTON 3 345 1                           0.06687  0.01201  -194.3  -277.3
115  -6896.0 L:60742 PANTHER869.0 63054 PANTHER4 230 1         -90.4   -70.0 -0.00296          0.00014   -40.1   -41.0
             C:62980 MCLEOD 4 230 63054 PANTHER4 230 1    3394
                Open 62980 MCLEOD 4 230 63054 PANTHER4 230 1                           0.18206 -0.01700  -276.4  -159.2
116  -6873.1 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -62.3   -47.0 -0.00223         -0.00211   -59.2   -44.7
             C:61906 MAPLE LF 161 61948 BYRON  5 161 1    3372
                Open 61906 MAPLE LF 161 61948 BYRON  5 161 1                           0.01028 -0.01203  -309.4  -226.7
117  -6871.1 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -61.0   -47.0 -0.00204         -0.00211   -59.2   -44.7
             C:60801 CNFLSTR869.0 60802 CANFLS 869.0 1    1471
                Open 60801 CNFLSTR869.0 60802 CANFLS 869.0 1                          -0.23883 -0.00031     7.6     9.7
118  -6861.5 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -61.5   -47.0 -0.00211         -0.00211   -59.2   -44.7
             C:60000 SHERC31G24.0 60160 SHERCO 3 345 1    2890
                Open 60000 SHERC31G24.0 60160 SHERCO 3 345 1                           0.00398  0.00000  -580.3  -580.3
119  -6839.8 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -61.4   -47.0 -0.00211         -0.00211   -59.2   -44.7
             C:60001 SHERC32G24.0 60160 SHERCO 3 345 1    2891
                Open 60001 SHERC32G24.0 60160 SHERCO 3 345 1                           0.00398  0.00000  -568.8  -568.8
120  -6832.6 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -22.7   -13.7 -0.00132         -0.00089   -14.3    -8.2
             C:60705 LUXBGTP869.0 62846 FRHV TP869.0 1    3076
                Open 60705 LUXBGTP869.0 62846 FRHV TP869.0 1                           0.32182 -0.00132   -26.0   -17.0
121  -6828.5 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -61.4   -47.0 -0.00211         -0.00211   -59.2   -44.8
             C:60005 MNTCE31G22.0 60151 MNTCELO3 345 1    2895
                Open 60005 MNTCE31G22.0 60151 MNTCELO3 345 1                           0.00392  0.00000  -571.4  -571.4
122  -6823.6 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1859.6 -1732.0 -0.01869         -0.01764 -1835.3 -1714.9
             C:CNC-KOL/TER3                               3633
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          -0.02523  0.02476   409.3   240.4
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                          -0.02221  0.01934   627.4   495.5
123  -6811.0 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1849.3 -1732.0 -0.01722         -0.01764 -1835.3 -1715.2
             C:66426 BISMARK4 230 67338 GLENHAM4 230 1    2354
                Open 66426 BISMARK4 230 67338 GLENHAM4 230 1                          -0.09129 -0.00461   153.2   184.6
124  -6807.6 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1857.1 -1732.0 -0.01838         -0.01764 -1835.3 -1715.2
             C:60133 SHEYNNE4 230 63336 AUDUBON4 230 1    1013
                Open 60133 SHEYNNE4 230 63336 AUDUBON4 230 1                          -0.08613  0.00860   253.4   194.9
125  -6805.3 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1852.0 -1732.0 -0.01764         -0.01764 -1835.3 -1715.3
             C:60003 PR IS31G20.0 60105 PR ISLD3 345 1    2893
                Open 60003 PR IS31G20.0 60105 PR ISLD3 345 1                           0.03201  0.00000  -523.2  -523.2
126  -6804.4 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1861.6 -1732.0 -0.01905         -0.01764 -1835.3 -1715.3
             C:795                                        3765
                Open 60150 MNVLTAP4 230 66550 GRANITF4 230 1                           0.08441 -0.01397  -311.5  -216.5
                Open 60148 MINVALY7 115 60149 MINVALT4 230 C1                         -0.07864  0.00290    18.2    -1.5
                Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                           0.02668  0.00000     0.0     0.0
                Open 60149 MINVALT4 230 60150 MNVLTAP4 230 1     NA
                Open 60742 PANTHER869.0 63054 PANTHER4 230 1                          -0.03468  0.00014   -40.1   -41.0
127  -6803.5 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1852.0 -1732.0 -0.01764         -0.01764 -1835.3 -1715.3
             C:60004 PR IS32G20.0 60105 PR ISLD3 345 1    2894
                Open 60004 PR IS32G20.0 60105 PR ISLD3 345 1                           0.03201  0.00000  -522.2  -522.2
128  -6788.7 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -61.3   -47.0 -0.00211         -0.00211   -59.2   -44.8
             C:60006 KING 31G20.0 60186 AS KING3 345 1    2896
                Open 60006 KING 31G20.0 60186 AS KING3 345 1                           0.00467  0.00000  -461.4  -461.4
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129  -6769.5 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1860.0 -1732.0 -0.01890         -0.01764 -1835.3 -1715.9
             C:60150 MNVLTAP4 230 63054 PANTHER4 230 1    2952
               Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                          -0.07478  0.01687   329.7   215.5
130  -6768.3 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -25.7   -17.3 -0.00124         -0.00089   -19.8   -13.7
             C:60156 PYNSVIL7 115 60356 PAYNES 4 230 C1   1069
               Open 60156 PYNSVIL7 115 60356 PAYNES 4 230 C1                          0.03360 -0.01032  -175.7  -105.8
131  -6768.3 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -25.7   -17.3 -0.00124         -0.00089   -19.8   -13.7
             C:60356 PAYNES 4 230 63050 WILLMAR4 230 C1   1365
               Open 60356 PAYNES 4 230 63050 WILLMAR4 230 C1                          0.03360 -0.01032  -175.7  -105.8
132  -6764.9 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1857.8 -1732.0 -0.01860         -0.01764 -1835.3 -1716.0
             C:63053 HUBBARD4 230 63336 AUDUBON4 230 1    3405
               Open 63053 HUBBARD4 230 63336 AUDUBON4 230 1                          0.11254 -0.00856  -200.4  -142.5
133  -6749.8 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -26.2   -17.3 -0.00132         -0.00089   -19.8   -13.8
             C:60703 WATKINS869.0 60704 KIMBALL869.0 1    1405
               Open 60703 WATKINS869.0 60704 KIMBALL869.0 1                          -0.32182  0.00132    19.9    11.0
134  -6741.4 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1848.4 -1732.0 -0.01726         -0.01764 -1835.3 -1716.4
             C:63255 DONALDS7 115 66705 DRAYTON7 115 1    2146
               Open 63255 DONALDS7 115 66705 DRAYTON7 115 1                          0.19137  0.00196   -68.4   -81.6
135  -6694.7 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -17.1   -13.7 -0.00051         -0.00089   -14.3    -8.4
             C:62929 ALBERTV869.0 62938 OTSEGO 869.0 1    1998
               Open 62929 ALBERTV869.0 62938 OTSEGO 869.0 1                          0.31429  0.00123    -8.8   -17.0
136  -6693.4 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -19.6   -13.7 -0.00088         -0.00089   -14.3    -8.4
             C:680                                        3732
               Open 60143 BENTON 7 115 63045 BENTON 4 230 P2                         0.00068  0.00362   -87.6  -111.8
               Open 62297 BENTON 869.0 63045 BENTON 4 230 1                          0.09534  0.00013   -54.4   -55.2
137  -6693.4 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -19.6   -13.7 -0.00088         -0.00089   -14.3    -8.4
             C:680    P2                                  3733
               Open 60143 BENTON 7 115 63045 BENTON 4 230 P2                         0.00068  0.00362   -87.6  -111.8
               Open 62297 BENTON 869.0 63045 BENTON 4 230 1                          0.09534  0.00013   -54.4   -55.2
138  -6690.9 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1847.2 -1732.0 -0.01722         -0.01764 -1835.3 -1717.3
             C:66527 WHITLOK4 230 67338 GLENHAM4 230 1    2497
               Open 66527 WHITLOK4 230 67338 GLENHAM4 230 1                          0.09129  0.00461  -130.5  -161.3
139  -6690.4 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -19.4   -13.7 -0.00086         -0.00089   -14.3    -8.4
             C:62139 CABLETP869.0 62297 BENTON 869.0 1    1785
               Open 62139 CABLETP869.0 62297 BENTON 869.0 1                          0.15187  0.00024   -33.5   -35.2
140  -6687.7 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -60.5   -47.0 -0.00201         -0.00211   -59.2   -45.1
             C:60103 CANNFLS5 161 63071 SPRNGCK5 161 1    2934
               Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                          0.03150  0.00307   -41.1   -61.6
141  -6686.9 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1857.7 -1732.0 -0.01880         -0.01764 -1835.3 -1717.3
             C:022       3                                3704
               Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          -0.02715  0.02476   409.3   243.8
               Open 60202 COON CK3 345 60251 TERMINL3 345 1                          -0.02465  0.01934   627.4   498.1
               Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                           0.00529  0.00036   207.1   204.7
               Open 60251 TERMINL3 345 61491 TERMID2Y 345 1                           0.00899 -0.00168   339.2   350.4
               Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                           0.04126  0.00000     0.2     0.2
               Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
142  -6680.6 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -60.4   -47.0 -0.00201         -0.00211   -59.2   -45.1
             C:60103 CANNFLS5 161 60104 CANNFLS7 115 1     945
               Open 60103 CANNFLS5 161 60104 CANNFLS7 115 1                          -0.03150 -0.00307    40.7    61.1
143  -6674.9 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -60.4   -47.0 -0.00201         -0.00211   -59.2   -45.1
             C:740    2                                   3755
               Open 60103 CANNFLS5 161 60104 CANNFLS7 115 1                          -0.03150 -0.00307    40.7    61.1
               Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                           0.02564  0.00000     0.4     0.4
144  -6670.9 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1846.9 -1732.0 -0.01722         -0.01764 -1835.3 -1717.6
             C:66521 SULLYBT4 230 66527 WHITLOK4 230 1    2491
               Open 66521 SULLYBT4 230 66527 WHITLOK4 230 1                          0.09129  0.00461  -126.7  -157.5
145  -6667.4 L:34200 CNTRVIL869.0 34573 N CENT8 69.0 1         -51.7   -48.0 -0.00055         -0.00000   -49.5   -49.5
             C:34641 KELLERT869.0 34643 GRRIVER869.0 1     741
               Open 34641 KELLERT869.0 34643 GRRIVER869.0 1                          0.12141 -0.00453   -17.8    12.4
146  -6658.6 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1858.8 -1732.0 -0.01904         -0.01764 -1835.3 -1717.8
             C:66506 FTTHOMP3 345 66571 GR ISLD3 345 1    3552
               Open 66506 FTTHOMP3 345 66571 GR ISLD3 345 1                          -0.05525  0.02536   425.1   256.3
147  -6652.2 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1829.9 -1732.0 -0.01472         -0.01764 -1835.3 -1718.0
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            C:34018 HAZLTON3 345 34093 ARNOLD 3 345 1      55
              Open 34018 HAZLTON3 345 34093 ARNOLD 3 345 1                          0.01610  0.18131   333.4  -872.7
148  -6645.2 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1846.4 -1732.0 -0.01722         -0.01764 -1835.3 -1718.1
            C:66519 OAHE   4 230 66521 SULLYBT4 230 1    2490
              Open 66519 OAHE   4 230 66521 SULLYBT4 230 1                          0.09129  0.00461  -121.9  -152.5
149  -6635.4 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -23.2   -17.3 -0.00089         -0.00089   -19.8   -13.9
            C:60002 SHERC33G26.0 60160 SHERCO 3 345 1    2892
              Open 60002 SHERC33G26.0 60160 SHERCO 3 345 1                          0.00393  0.00000  -875.5  -875.5
150  -6616.1 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1853.7 -1732.0 -0.01840         -0.01764 -1835.3 -1718.6
            C:63329 WAHPETN4 230 63331 FERGSFL4 230 1    2192
              Open 63329 WAHPETN4 230 63331 FERGSFL4 230 1                         -0.06963  0.01091   264.8   192.6
151  -6612.2 L:34200 CNTRVIL869.0 34573 N CENT8 69.0 1         -51.6   -48.0 -0.00055         -0.00000   -49.5   -49.5
            C:34639 LEON 8  69.0 34641 KELLERT869.0 1     738
              Open 34639 LEON 8  69.0 34641 KELLERT869.0 1                          0.12141 -0.00453   -17.5    12.4
152  -6610.8 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1846.9 -1732.0 -0.01739         -0.01764 -1835.3 -1718.7
            C:66435 FARGO  4 230 66553 MOORHED4 230 1    2371
              Open 66435 FARGO  4 230 66553 MOORHED4 230 1                         -0.10139 -0.00250   114.8   131.3
153  -6605.3 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -19.5   -13.7 -0.00088         -0.00089   -14.3    -8.4
            C:62297 BENTON 869.0 63045 BENTON 4 230 1    3380
              Open 62297 BENTON 869.0 63045 BENTON 4 230 1                          0.09530  0.00013   -54.4   -55.2
154  -6575.5 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -70.3   -47.0 -0.00354         -0.00211   -59.2   -45.3
            C:61948 BYRON  5 161 61964 OWATNNA5 161 1    1696
              Open 61948 BYRON  5 161 61964 OWATNNA5 161 1                          0.07071 -0.02028  -157.4   -24.1
155  -6568.3 L:62427 WILLMAR869.0 62429 PNNCKTP869.0 1         -35.9   -24.3 -0.00176         -0.00071   -13.8    -9.1
            C:63050 WILLMAR4 230 66550 GRANITF4 230 1    2051
              Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                          0.10183 -0.01028  -216.5  -149.0
156  -6555.8 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1856.0 -1732.0 -0.01891         -0.01764 -1835.3 -1719.7
            C:62980 MCLEOD 4 230 63054 PANTHER4 230 1    3394
              Open 62980 MCLEOD 4 230 63054 PANTHER4 230 1                          0.07485 -0.01700  -276.4  -164.9
157  -6546.8 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -70.2   -47.0 -0.00354         -0.00211   -59.2   -45.4
            C:BYN-WOW/KAN5                               3653
              Open 61948 BYRON  5 161 61964 OWATNNA5 161 1                          0.07071 -0.02028  -157.4   -24.7
              Open 60799 KASSON 869.0 61161 BYRON  869.0 1                          0.00380  0.00000    26.8    26.8
158  -6533.4 L:34200 CNTRVIL869.0 34573 N CENT8 69.0 1         -51.6   -48.0 -0.00055         -0.00000   -49.5   -49.5
            C:34636 CLIO T8 69.0 34639 LEON 8  69.0 1     737
              Open 34636 CLIO T8 69.0 34639 LEON 8  69.0 1                          0.12141 -0.00453   -17.2    12.4
159  -6532.0 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1849.6 -1732.0 -0.01801         -0.01764 -1835.3 -1720.1
            C:63245 WILTON 7 115 63246 BEMIDJI7 115 1    2131
              Open 63245 WILTON 7 115 63246 BEMIDJI7 115 1                         -0.16352  0.00225    87.6    72.9
160  -6511.7 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          91.6    47.0  0.00684          0.00439    62.9    34.3
            C:885                                        3780
              Open 69507 SENECA 5 161 69511 BELLCTR5 161 1                          0.06512  0.00408   129.4   102.8
              Open 69507 SENECA 5 161 69523 GENOA  5 161 1                         -0.07105 -0.03083  -284.7   -83.9
161  -6508.8 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1831.5 -1732.0 -0.01528         -0.01764 -1835.3 -1720.5
            C:34093 ARNOLD 3 345 64352 TIFFIN 3 345 1    2777
              Open 34093 ARNOLD 3 345 64352 TIFFIN 3 345 1                          0.01108  0.21292   346.7 -1039.1
162  -6499.8 L:34200 CNTRVIL869.0 34573 N CENT8 69.0 1         -51.6   -48.0 -0.00055         -0.00000   -49.5   -49.5
            C:34635 ALERTON869.0 34636 CLIO T8 69.0 1     734
              Open 34635 ALERTON869.0 34636 CLIO T8 69.0 1                          0.12141 -0.00453   -17.0    12.4
163  -6495.5 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -53.9   -47.0 -0.00106         -0.00211   -59.2   -45.5
            C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
              Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                         -0.00749 -0.13973  -702.5   205.1
164  -6486.2 L:34200 CNTRVIL869.0 34573 N CENT8 69.0 1         -51.6   -48.0 -0.00055         -0.00000   -49.5   -49.5
            C:34175 CORYDON869.0 34635 ALERTON869.0 1     277
              Open 34175 CORYDON869.0 34635 ALERTON869.0 1                          0.12141 -0.00453   -17.0    12.4
165  -6485.7 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1845.4 -1732.0 -0.01748         -0.01764 -1835.3 -1720.9
            C:66751 CENTER 4 230 67342 HESKETT4 230 1    2572
              Open 66751 CENTER 4 230 67342 HESKETT4 230 1                         -0.04054 -0.00399   248.2   274.0
166  -6483.4 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1853.6 -1732.0 -0.01876         -0.01764 -1835.3 -1720.9
            C:61611 WINGRIV4 230 63052 INMAN  4 230 1    3357
              Open 61611 WINGRIV4 230 63052 INMAN  4 230 1                          0.09336 -0.01196  -196.1  -118.6
167  -6480.5 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1851.5 -1732.0 -0.01844         -0.01764 -1835.3 -1721.0
            C:63051 HENNING4 230 63331 FERGSFL4 230 1    2053
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                Open 63051 HENNING4 230 63331 FERGSFL4 230 1                          0.07383 -0.01089  -219.8  -149.2
168  -6478.2 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -60.2   -47.0 -0.00204         -0.00211   -59.2   -45.5
             C:60802 CANFLS 869.0 62390 SCANNON869.0 1    3147
                Open 60802 CANFLS 869.0 62390 SCANNON869.0 1                         -0.23883 -0.00031     4.3     6.3
169  -6470.8 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1845.6 -1732.0 -0.01756         -0.01764 -1835.3 -1721.2
             C:63329 WAHPETN4 230 66754 MAPLE R4 230 1    2193
                Open 63329 WAHPETN4 230 66754 MAPLE R4 230 1                          0.08653  0.00095  -119.2  -125.4
170  -6469.1 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1825.4  1732.0  0.01444          0.01764  1791.3  1677.2
             C:66752 DRAYTON4 230 66755 PRAIRIE4 230 1    2573
                Open 66752 DRAYTON4 230 66755 PRAIRIE4 230 1                          0.37964 -0.00844    89.7   144.3
171  -6464.3 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1846.0 -1732.0 -0.01763         -0.01764 -1835.3 -1721.3
             C:66470 BISON  4 230 67347 HETINGR4 230 1    2402
                Open 66470 BISON  4 230 67347 HETINGR4 230 1                          0.08472  0.00010  -126.0  -126.7
172  -6459.1 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -157.4  -127.9 -0.00457         -0.00474  -109.8   -79.1
             C: 6001 YANKEE 7 115 66337 WHITE2 7 115 1       2
                Open  6001 YANKEE 7 115 66337 WHITE2 7 115 1                         -0.14603 -0.00116   326.5   334.0
173  -6454.7 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1821.1 -1732.0 -0.01380         -0.01764 -1835.3 -1721.4
             C:34018 HAZLTON3 345 60102 ADAMS  3 345 1      56
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                         -0.02701 -0.14203  -525.7   391.1
174  -6449.5 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1845.7 -1732.0 -0.01763         -0.01764 -1835.3 -1721.5
             C:66470 BISON  4 230 66497 MAURINE4 230 1    2401
                Open 66470 BISON  4 230 66497 MAURINE4 230 1                         -0.08472 -0.00010   122.9   123.6
175  -6447.8 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1843.5 -1732.0 -0.01730         -0.01764 -1835.3 -1721.6
             C:63314 BIGSTON4 230 66503 BLAIR  4 230 1    2188
                Open 63314 BIGSTON4 230 66503 BLAIR  4 230 1                         -0.03849 -0.00882   214.3   271.2
176  -6447.5 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1846.5 -1732.0 -0.01777         -0.01764 -1835.3 -1721.6
             C:63369 JAMESTN3 345 66791 CENTER 3 345 1    2199
                Open 63369 JAMESTN3 345 66791 CENTER 3 345 1                          0.02662 -0.00471  -422.3  -391.9
177  -6445.7 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1813.3 -1732.0 -0.01261         -0.01764 -1835.3 -1721.6
             C:63379 RUGBY  4 230 67523 GLENBOR4 230 C1   3459
                Open 63379 RUGBY  4 230 67523 GLENBOR4 230 C1                         0.55290  0.00910    39.8   -18.8
178  -6442.0 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1850.8 -1732.0 -0.01844         -0.01764 -1835.3 -1721.7
             C:63051 HENNING4 230 63052 INMAN  4 230 1    2052
                Open 63051 HENNING4 230 63052 INMAN  4 230 1                         -0.07383  0.01089   210.2   140.0
179  -6440.6 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1844.0 -1732.0 -0.01739         -0.01764 -1835.3 -1721.7
             C:66553 MOORHED4 230 66554 MORRIS 4 230 1    2507
                Open 66553 MOORHED4 230 66554 MORRIS 4 230 1                         -0.10139 -0.00250    85.6   101.7
180  -6435.0 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          28.4    19.3  0.00141          0.00055    23.3    19.8
             C:60159 STCTPW 7 115 60162 WAKEFLD7 115 1    1076
                Open 60159 STCTPW 7 115 60162 WAKEFLD7 115 1                         -0.11243 -0.00768   -45.2     4.2
181  -6404.5 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -60.4   -47.0 -0.00209         -0.00211   -59.2   -45.7
             C:60218 INVRHLS7 115 60223 KOCHREF7 115 1    1199
                Open 60218 INVRHLS7 115 60223 KOCHREF7 115 1                         -0.00810 -0.00189   153.8   166.0
182  -6398.1 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          28.3    19.3  0.00141          0.00055    23.3    19.8
             C:756                                        3758
                Open 62815 I94PARK7 115 62816 STAUGST7 115 1                          0.00489 -0.00307    -3.3    16.4
                Open 60159 STCTPW 7 115 60162 WAKEFLD7 115 1                         -0.11415 -0.00768   -45.2     3.9
                Open 60157 STCLOUD7 115 60159 STCTPW 7 115 1                         -0.02863  0.00000     4.4     4.4
                Open 60159 STCTPW 7 115 62816 STAUGST7 115 1     NA
183  -6397.3 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1843.4 -1732.0 -0.01742         -0.01764 -1835.3 -1722.5
             C:60131 SPLTRTB3 345 66564 SIOUXCY3 345 1    1009
                Open 60131 SPLTRTB3 345 66564 SIOUXCY3 345 1                         -0.01499 -0.01463   543.3   636.9
184  -6397.3 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1843.4 -1732.0 -0.01742         -0.01764 -1835.3 -1722.5
             C:60126 SPLT RK3 345 60131 SPLTRTB3 345 1    1002
                Open 60126 SPLT RK3 345 60131 SPLTRTB3 345 1                         -0.01499 -0.01463   543.3   636.9
185  -6395.9 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1845.6 -1732.0 -0.01777         -0.01764 -1835.3 -1722.5
             C:63358 BUFFALO3 345 63369 JAMESTN3 345 1    2195
                Open 63358 BUFFALO3 345 63369 JAMESTN3 345 1                          0.02662 -0.00471  -387.9  -357.8
186  -6382.7 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1845.4 -1732.0 -0.01777         -0.01764 -1835.3 -1722.7
             C:63358 BUFFALO3 345 66792 MAPLE R3 345 1    2196
                Open 63358 BUFFALO3 345 66792 MAPLE R3 345 1                         -0.02662  0.00471   379.1   349.0
187  -6372.7 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1846.8 -1732.0 -0.01801         -0.01764 -1835.3 -1722.9
             C:63246 BEMIDJI7 115 66710 NARY   7 115 1    2134
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              Open 63246 BEMIDJI7 115 66710 NARY   7 115 1                          -0.16352  0.00225    70.1    55.8
188  -6366.8 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1844.1 -1732.0 -0.01761         -0.01764 -1835.3 -1723.0
             C:67342 HESKETT4 230 67394 WISHEK 4 230 1    2675
              Open 67342 HESKETT4 230 67394 WISHEK 4 230 1                          -0.06035 -0.00046   146.4   149.3
189  -6355.0 L:63223 HOOT LK7 115 63231 FERGSFL7 115 1        -119.7   -96.0 -0.00372         -0.00002   -44.9   -44.8
             C:63051 HENNING4 230 63331 FERGSFL4 230 1    2053
              Open 63051 HENNING4 230 63331 FERGSFL4 230 1                           0.34006 -0.01089  -219.8  -150.6
190  -6352.9 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -58.0   -47.0 -0.00173         -0.00211   -59.2   -45.8
             C:60793 MORISTN869.0 62875 WARSAW 869.0 1    3142
              Open 60793 MORISTN869.0 62875 WARSAW 869.0 1                           0.11878  0.00315     9.6   -10.4
191  -6349.6 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1844.0 -1732.0 -0.01764         -0.01764 -1835.3 -1723.3
             C:60008 RIVRS78G22.0 60240 RIVRSID7 115 1    2898
              Open 60008 RIVRS78G22.0 60240 RIVRSID7 115 1                           0.03822  0.00000  -227.9  -227.9
192  -6340.2 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1843.7 -1732.0 -0.01761         -0.01764 -1835.3 -1723.5
             C:67326 ELLENDL4 230 67394 WISHEK 4 230 1    2663
              Open 67326 ELLENDL4 230 67394 WISHEK 4 230 1                           0.06035  0.00046  -138.6  -141.5
193  -6318.6 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -60.7   -48.0 -0.00201         -0.00216   -53.9   -40.3
             C:60105 PR ISLD3 345 60106 PR ISLD5 161 1     947
              Open 60105 PR ISLD3 345 60106 PR ISLD5 161 1                          -0.05730 -0.00257   118.9   135.2
194  -6318.6 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -60.7   -48.0 -0.00201         -0.00216   -53.9   -40.3
             C:60106 PR ISLD5 161 63071 SPRNGCK5 161 1    2936
              Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                          -0.05730 -0.00257   118.9   135.2
195  -6314.7 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1817.9 -1732.0 -0.01361         -0.01764 -1835.3 -1723.9
             C:825                                        3771
              Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                          -0.01314 -0.09714  -545.7    67.7
              Open 34014 ADAMS  5 161 60102 ADAMS  3 345 1                          -0.00000  0.02245    -2.8  -144.6
              Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                          -0.01940 -0.14203  -525.7   371.2
196  -6312.9 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1877.8 -1732.0 -0.02309         -0.01764 -1835.3 -1723.9
             C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
              Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          -0.04819  0.11317   881.7   167.3
197  -6311.5 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1853.1 -1732.0 -0.01918         -0.01764 -1835.3 -1724.0
             C:022       1                                3703
              Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          -0.03333  0.02476   409.3   253.1
              Open 60221 KOLMNLK3 345 60251 TERMINL3 345 1                           0.02199 -0.02267    47.8   190.9
              Open 60202 COON CK3 345 60251 TERMINL3 345 1                          -0.01134  0.01934   627.4   505.4
              Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                           0.00937  0.00036   207.1   204.8
              Open 60251 TERMINL3 345 61492 TERMID1Y 345 1     NA
              Open 60252 TERMINL7 115 61492 TERMID1Y 345 1                          -0.00000  0.00166  -335.8  -346.3
              Open 61187 TERTER1934.5 61492 TERMID1Y 345 1     NA
              Open 60251 TERMINL3 345 61491 TERMID2Y 345 1     NA
              Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                           0.03464  0.00000     0.3     0.3
              Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
198  -6309.5 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -60.4   -47.0 -0.00212         -0.00211   -59.2   -45.9
             C:WEH-CHE/HAS7                               3661
              Open 60201 CHEMOLT7 115 60342 WHAST  7 115 1                          -0.01099 -0.00077    21.8    26.6
              Open 60915 HASTING869.0 62258 WHASTNG869.0 1                           0.03005 -0.00070   -32.7   -28.3
199  -6289.4 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -60.7   -47.0 -0.00218         -0.00211   -59.2   -45.9
             C:60276 AIRLAKE7 115 62234 LKMARN 7 115 1    2988
              Open 60276 AIRLAKE7 115 62234 LKMARN 7 115 1                           0.02055 -0.00337   -74.7   -53.6
200  -6287.3 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1839.7 -1732.0 -0.01714         -0.01764 -1835.3 -1724.4
             C:PRI-RRK/RRK3                               3644
              Open 60105 PR ISLD3 345 60236 REDROCK3 345 1                          -0.01470 -0.01692   149.9   256.3
              Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                          -0.01470 -0.01725   152.8   261.2
201  -6287.3 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1839.7 -1732.0 -0.01714         -0.01764 -1835.3 -1724.4
             C:760                                        3759
              Open 60105 PR ISLD3 345 60236 REDROCK3 345 1                          -0.01470 -0.01692   149.9   256.3
              Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                          -0.01470 -0.01725   152.8   261.2
202  -6283.8 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1843.7 -1732.0 -0.01777         -0.01764 -1835.3 -1724.5
             C:SHC-CNC/BUL3                               3630
              Open 60160 SHERCO 3 345 60202 COON CK3 345 1                          -0.00890  0.00772   472.9   424.4
              Open 60160 SHERCO 3 345 63031 BUNKER 3 345 1                          -0.00851  0.00766   491.3   443.2
203  -6281.2 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -22.0   -13.7 -0.00132         -0.00089   -14.3    -8.7
             C:60705 LUXBGTP869.0 62620 WATKINS869.0 1    3074
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              Open 60705 LUXBGTP869.0 62620 WATKINS869.0 1                          -0.32182  0.00132    23.7    15.5
204  -6279.4 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1842.8 -1732.0 -0.01764         -0.01764 -1835.3 -1724.5
             C:PRA-NOR 7s                                  3688
              Open 60141 NORDIC 7 115 66712 PRAIRIE7 115 1                           0.00000  0.00000   -14.6   -14.6
              Open 60141 NORDIC 7 115 66712 PRAIRIE7 115 2                          -0.25881  0.00000    28.9    28.9
205  -6275.5 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1842.0 -1732.0 -0.01754         -0.01764 -1835.3 -1724.6
             C:60286 NOBLES 3 345 60287 NOBLES 7 115 C1   1291
              Open 60286 NOBLES 3 345 60287 NOBLES 7 115 C1                          0.01416  0.00735  -476.5  -522.6
206  -6272.4 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1848.0 -1732.0 -0.01850         -0.01764 -1835.3 -1724.7
             C:810   C1                                    3767
              Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                           0.06626 -0.01298  -192.3  -110.9
              Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                          0.03459  0.00000    -0.0    -0.0
207  -6272.4 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1848.0 -1732.0 -0.01850         -0.01764 -1835.3 -1724.7
             C:60189 BLK DOG4 230 60190 BLK DOG7 115 C1   1120
              Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                         -0.06626  0.01298   192.3   110.9
208  -6272.4 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1848.0 -1732.0 -0.01850         -0.01764 -1835.3 -1724.7
             C:60189 BLK DOG4 230 62980 MCLEOD 4 230 1    1121
              Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                           0.06626 -0.01298  -192.3  -110.9
209  -6267.0 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -25.0   -17.3 -0.00122         -0.00089   -19.8   -14.2
             C:500                                         3718
              Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                           0.03165 -0.01028  -216.5  -152.1
              Open 62427 WILLMAR869.0 63050 WILLMAR4 230 1                          -0.04414  0.00004   -38.4   -38.7
210  -6266.6 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -22.7   -17.3 -0.00087         -0.00089   -19.8   -14.2
             C:62134 ELKR14S869.0 63043 ELK RIV4 230 1    1779
              Open 62134 ELKR14S869.0 63043 ELK RIV4 230 1                           0.03174  0.00086   -92.5   -97.9
211  -6266.4 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -156.5  -127.9 -0.00457         -0.00474  -109.8   -80.0
             C:66537 WHITE  3 345 66337 WHITE2 7 115 P2   2309
              Open 66537 WHITE  3 345 66337 WHITE2 7 115 P2                          0.14603  0.00116  -320.4  -327.7
212  -6264.7 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1846.4 -1732.0 -0.01826         -0.01764 -1835.3 -1724.8
             C:500                                         3718
              Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                           0.05967 -0.01028  -216.5  -152.1
              Open 62427 WILLMAR869.0 63050 WILLMAR4 230 1                          -0.04830  0.00004   -38.4   -38.7
213  -6264.5 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -60.2   -47.0 -0.00211         -0.00211   -59.2   -46.0
             C:60008 RIVRS78G22.0 60240 RIVRSID7 115 1    2898
              Open 60008 RIVRS78G22.0 60240 RIVRSID7 115 1                           0.00460  0.00000  -227.9  -227.9
214  -6253.2 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1843.2 -1732.0 -0.01779         -0.01764 -1835.3 -1725.0
             C:CNC-SHC/BUL3                                3632
              Open 60160 SHERCO 3 345 60202 COON CK3 345 1                          -0.00955  0.00772   472.9   424.7
              Open 60202 COON CK3 345 63031 BUNKER 3 345 1                           0.00939 -0.00803  -364.6  -314.4
215  -6234.9 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -60.5   -47.0 -0.00216         -0.00211   -59.2   -46.0
             C:022       1                                 3703
              Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          -0.00123  0.02476   409.3   255.0
              Open 60221 KOLMNLK3 345 60251 TERMINL3 345 1                          -0.00005 -0.02267    47.8   189.2
              Open 60202 COON CK3 345 60251 TERMINL3 345 1                          -0.00128  0.01934   627.4   506.9
              Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                          -0.00009  0.00036   207.1   204.8
              Open 60251 TERMINL3 345 61492 TERMID1Y 345 1     NA
              Open 60252 TERMINL7 115 61492 TERMID1Y 345 1                           0.00000  0.00166  -335.8  -346.2
              Open 61187 TERTER1934.5 61492 TERMID1Y 345 1     NA
              Open 60251 TERMINL3 345 61491 TERMID2Y 345 1     NA
              Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                           0.00489  0.00000     0.3     0.3
              Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
216  -6234.8 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1844.3 -1732.0 -0.01801         -0.01764 -1835.3 -1725.3
             C:66710 NARY   7 115 66716 LAPORTE7 115 1    2556
              Open 66710 NARY   7 115 66716 LAPORTE7 115 1                         -0.16352  0.00225    54.9    40.9
217  -6233.2 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1843.6 -1732.0 -0.01791         -0.01764 -1835.3 -1725.3
             C:CNC-DKN/SHC3                                3634
              Open 60202 COON CK3 345 63030 DICKNSN3 345 1                           0.01229 -0.01742  -393.2  -284.6
              Open 60202 COON CK3 345 60272 MPLEGV23 345 1                           0.00740 -0.00782  -475.5  -426.8
218  -6229.9 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -60.3   -47.0 -0.00213         -0.00211   -59.2   -46.0
             C:60915 HASTING869.0 62258 WHASTNG869.0 1    3209
              Open 60915 HASTING869.0 62258 WHASTNG869.0 1                           0.03439 -0.00070   -32.7   -28.4
219  -6227.8 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -60.5   -47.0 -0.00216         -0.00211   -59.2   -46.0
             C:022       3                                 3704
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                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          -0.00124  0.02476   409.3   255.1
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                          -0.00125  0.01934   627.4   507.0
                Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                          -0.00008  0.00036   207.1   204.8
                Open 60251 TERMINL3 345 61491 TERMID2Y 345 1                          -0.00002 -0.00168   339.2   349.6
                Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                           0.00487  0.00000     0.2     0.2
                Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
220  -6223.5 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1838.8 -1732.0 -0.01715         -0.01764 -1835.3 -1725.5
             C:66523 SIOUXFL4 230 66578 PAHOJA 4 230 1    2494
                Open 66523 SIOUXFL4 230 66578 PAHOJA 4 230 1                          -0.01562 -0.03119   221.0   415.0
221  -6221.8 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1845.5 -1732.0 -0.01824         -0.01764 -1835.3 -1725.5
             C:60156 PYNSVIL7 115 60356 PAYNES 4 230 C1   1069
                Open 60156 PYNSVIL7 115 60356 PAYNES 4 230 C1                          0.05790 -0.01032  -175.7  -111.5
222  -6221.8 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1845.5 -1732.0 -0.01824         -0.01764 -1835.3 -1725.5
             C:60356 PAYNES 4 230 63050 WILLMAR4 230 C1   1365
                Open 60356 PAYNES 4 230 63050 WILLMAR4 230 C1                          0.05790 -0.01032  -175.7  -111.5
223  -6220.5 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1842.7 -1732.0 -0.01780         -0.01764 -1835.3 -1725.6
             C:670     1                                  3728
                Open 60160 SHERCO 3 345 60202 COON CK3 345 1                          -0.00973  0.00772   472.9   424.9
                Open 60160 SHERCO 3 345 63031 BUNKER 3 345 1                          -0.00068  0.00766   491.3   443.6
                Open 60202 COON CK3 345 63031 BUNKER 3 345 1                           0.00905 -0.00803  -364.6  -314.7
                Open 60202 COON CK3 345 61487 CNCMID2Y 345 1                           0.00211 -0.00154   328.4   338.0
                Open 60203 COON CK7 115 61487 CNCMID2Y 345 1                           0.03765  0.00000     0.1     0.1
                Open 60655 CNCTER2934.5 61487 CNCMID2Y 345 1     NA
                Open 63031 BUNKER 3 345 63046 BUNKER 4 230 1                           0.03071  0.00000     4.3     4.3
224  -6220.2 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -60.5   -47.0 -0.00216         -0.00211   -59.2   -46.0
             C:CNC-KOL/TER3                             3633
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          -0.00125  0.02476   409.3   255.3
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                          -0.00125  0.01934   627.4   507.2
225  -6211.7 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1838.5 -1732.0 -0.01715         -0.01764 -1835.3 -1725.7
             C:66562 EAGLE  4 230 66578 PAHOJA 4 230 1    2515
                Open 66562 EAGLE  4 230 66578 PAHOJA 4 230 1                           0.01562  0.03119  -208.0  -401.7
226  -6211.1 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1841.6 -1732.0 -0.01764         -0.01764 -1835.3 -1725.7
             C:67101 ANTELOP3 345 67218 AVSDC7TY 345 1    2598
                Open 67101 ANTELOP3 345 67218 AVSDC7TY 345 1                          -0.11940  0.00000    52.5    52.5
227  -6206.3 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1843.8 -1732.0 -0.01801         -0.01764 -1835.3 -1725.8
             C:61640 BADOURA7 115 66716 LAPORTE7 115 1    3359
                Open 61640 BADOURA7 115 66716 LAPORTE7 115 1                           0.16352 -0.00225   -51.8   -37.8
228  -6205.4 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1839.8 -1732.0 -0.01737         -0.01764 -1835.3 -1725.8
             C:66550 GRANITF4 230 66554 MORRIS 4 230 1    2506
                Open 66550 GRANITF4 230 66554 MORRIS 4 230 1                           0.06942  0.00390   -64.6   -88.8
229  -6203.9 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1841.4 -1732.0 -0.01764         -0.01764 -1835.3 -1725.9
             C:60010 HIBRD76G18.0 60214 HIBRDGE7 115 1    2900
                Open 60010 HIBRD76G18.0 60214 HIBRDGE7 115 1                           0.03647  0.00000  -168.3  -168.3
230  -6203.5 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1843.8 -1732.0 -0.01802         -0.01764 -1835.3 -1725.9
             C:60150 MNVLTAP4 230 66550 GRANITF4 230 1    1056
                Open 60150 MNVLTAP4 230 66550 GRANITF4 230 1                           0.02727 -0.01397  -311.5  -224.9
231  -6200.8 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1842.2 -1732.0 -0.01777         -0.01764 -1835.3 -1725.9
             C:63345 WILTON 4 230 66758 WINGER 4 230 1    2194
                Open 63345 WILTON 4 230 66758 WINGER 4 230 1                           0.07563 -0.00169   -90.9   -80.4
232  -6196.9 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1842.1 -1732.0 -0.01777         -0.01764 -1835.3 -1726.0
             C:63186 WILTON Y 230 63345 WILTON 4 230 1    2059
                Open 63186 WILTON Y 230 63345 WILTON 4 230 1                           0.07563 -0.00169   -90.0   -79.5
233  -6196.2 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1842.1 -1732.0 -0.01777         -0.01764 -1835.3 -1726.0
             C:63186 WILTON Y 230 63245 WILTON 7 115 1    2058
                Open 63186 WILTON Y 230 63245 WILTON 7 115 1                          -0.07563  0.00169    89.8    79.4
234  -6194.9 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1843.8 -1732.0 -0.01804         -0.01764 -1835.3 -1726.0
             C:63050 WILLMAR4 230 66550 GRANITF4 230 1    2051
                Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                           0.03912 -0.01028  -216.5  -152.9
235  -6194.6 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1843.0 -1732.0 -0.01792         -0.01764 -1835.3 -1726.0
             C:66503 BLAIR  4 230 66550 GRANITF4 230 1    2447
                Open 66503 BLAIR  4 230 66550 GRANITF4 230 1                          -0.02923  0.00970   264.5   204.4
236  -6191.3 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -60.9   -47.0 -0.00225         -0.00211   -59.2   -46.1
             C:60110 WILMART7 115 60194 CARVRCO7 115 1     964
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                Open 60110 WILMART7 115 60194 CARVRCO7 115 1                          -0.01587  0.00886   111.2    56.4
237  -6191.1 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -61.6   -47.0 -0.00235         -0.00211   -59.2   -46.1
             C:60192 BLUE LK3 345 60217 INVRHLS3 345 1    1126
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.00504  0.04835   476.6   177.2
238  -6189.0 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1842.9 -1732.0 -0.01792         -0.01764 -1835.3 -1726.1
             C:009   4                                    3698
                Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                          -0.00750  0.00782   479.8   431.3
                Open 60202 COON CK3 345 60272 MPLEGV23 345 1                           0.04042  0.00000     4.2     4.2
                Open 60202 COON CK3 345 63030 DICKNSN3 345 1                           0.01250 -0.01742  -393.2  -285.4
                Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                           0.00220 -0.00156   331.6   341.2
                Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                           0.03822  0.00000     0.1     0.1
                Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1     NA
239  -6186.1 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1841.4 -1732.0 -0.01768         -0.01764 -1835.3 -1726.2
             C:63237 MAHNOMN7 115 63238 WINGER 7 115 1    2118
                Open 63237 MAHNOMN7 115 63238 WINGER 7 115 1                           0.13207 -0.00028   -45.8   -44.1
240  -6170.1 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -60.5   -47.0 -0.00219         -0.00211   -59.2   -46.2
             C:62980 MCLEOD 4 230 63054 PANTHER4 230 1    3394
                Open 62980 MCLEOD 4 230 63054 PANTHER4 230 1                           0.00495 -0.01700  -276.4  -171.5
241  -6166.0 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1840.8 -1732.0 -0.01764         -0.01764 -1835.3 -1726.5
             C:535       1                                3721
                Open 60134 SHEYNNE7 115 60135 CASS CO7 115 1                           0.00360 -0.00005    29.4    29.7
                Open 60134 SHEYNNE7 115 66761 MODEROW7 115 1                           0.00360 -0.00005    33.9    34.2
                Open 60135 CASS CO7 115 66761 MODEROW7 115 1     NA
                Open 60135 CASS CO7 115 60137 REDRIVR7 115 1                          -0.13308  0.00000    42.8    42.8
242  -6156.4 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1840.6 -1732.0 -0.01764         -0.01764 -1835.3 -1726.7
             C:63192 HENSEL Y 115 63257 HENSEL 7 115 1    2070
                Open 63192 HENSEL Y 115 63257 HENSEL 7 115 1                          -0.37319  0.00000    14.2    14.2
243  -6156.3 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1840.6 -1732.0 -0.01764         -0.01764 -1835.3 -1726.7
             C:63257 HENSEL 7 115 66705 DRAYTON7 115 1    2149
                Open 63257 HENSEL 7 115 66705 DRAYTON7 115 1                          -0.37319  0.00000    14.2    14.2
244  -6154.2 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1840.8 -1732.0 -0.01768         -0.01764 -1835.3 -1726.7
             C:63237 MAHNOMN7 115 66717 ULRICH 7 115 1    2119
                Open 63237 MAHNOMN7 115 66717 ULRICH 7 115 1                          -0.13207  0.00028    41.6    39.8
245  -6151.0 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1837.8 -1732.0 -0.01720         -0.01764 -1835.3 -1726.8
             C:66509 FTRANDL4 230 66565 SIOUXCY4 230 1    2470
                Open 66509 FTRANDL4 230 66565 SIOUXCY4 230 1                          -0.02320 -0.01883   108.5   224.3
246  -6148.3 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1838.9 -1732.0 -0.01738         -0.01764 -1835.3 -1726.8
             C:66507 FTTHOMP4 230 66509 FTRANDL4 230 1    2452
                Open 66507 FTTHOMP4 230 66509 FTRANDL4 230 1                          -0.02495 -0.01047   142.3   206.7
247  -6148.3 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          90.3    47.0  0.00704          0.00439    62.9    35.9
             C:39244 ARP 345  345 60304 EAU CL 3 345 1    2888
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.03953 -0.06704  -692.1  -279.9
248  -6145.7 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1838.8 -1732.0 -0.01739         -0.01764 -1835.3 -1726.9
             C:66507 FTTHOMP4 230 66516 LAKPLAT4 230 1    2455
                Open 66507 FTTHOMP4 230 66516 LAKPLAT4 230 1                          -0.02478 -0.01028   143.1   206.3
249  -6145.5 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -57.7   -47.0 -0.00173         -0.00211   -59.2   -46.2
             C:60793 MORISTN869.0 60805 WATRVIL869.0 1    1464
                Open 60793 MORISTN869.0 60805 WATRVIL869.0 1                          -0.11878 -0.00315   -12.6     6.7
250  -6140.7 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -60.3   -47.0 -0.00216         -0.00211   -59.2   -46.2
             C:022       6                                3707
                Open 60186 AS KING3 345 60199 CHIS CO3 345 1                           0.00149 -0.00535  -490.2  -457.3
                Open 60186 AS KING3 345 60221 KOLMNLK3 345 1                           0.00116 -0.03910  -330.7   -90.6
251  -6140.7 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -60.3   -47.0 -0.00216         -0.00211   -59.2   -46.2
             C:ASK-CHI/KOL3                               3641
                Open 60186 AS KING3 345 60199 CHIS CO3 345 1                           0.00149 -0.00535  -490.2  -457.3
                Open 60186 AS KING3 345 60221 KOLMNLK3 345 1                           0.00116 -0.03910  -330.7   -90.6
252  -6140.5 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1837.8 -1732.0 -0.01724         -0.01764 -1835.3 -1727.0
             C:66507 FTTHOMP4 230 66523 SIOUXFL4 230 1    2460
                Open 66507 FTTHOMP4 230 66523 SIOUXFL4 230 1                          -0.03100 -0.01301    82.0   161.9
253  -6137.4 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1837.8 -1732.0 -0.01723         -0.01764 -1835.3 -1727.0
             C:66513 HANLON 4 230 67122 STORLA 4 230 1    2479
                Open 66513 HANLON 4 230 67122 STORLA 4 230 1                           0.02973  0.01378   -82.4  -167.0
254  -6136.6 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1840.5 -1732.0 -0.01768         -0.01764 -1835.3 -1727.0
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            C:63236 AUDUBON7 115 66717 ULRICH 7 115 1    2117
              Open 63236 AUDUBON7 115 66717 ULRICH 7 115 1                          0.13207 -0.00028   -39.2   -37.5
255  -6135.6*L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1840.2 -1732.0 -0.01764         -0.01764 -1835.3 -1727.1
            C:67304 BAKER  4 230 67310 BOWMAN 4 230 1    2650
              Open 67304 BAKER  4 230 67310 BOWMAN 4 230 1                         -0.05071  0.00004    97.5    97.3
265  -6111.7 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -60.2   -47.0 -0.00216         -0.00211   -59.2   -46.3
            C:60826 TRAVRSE869.0 62350 TRAVERS869.0 1    3175
              Open 60826 TRAVRSE869.0 62350 TRAVERS869.0 1                         -0.02130  0.00249    49.3    34.1
272  -6094.5 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -60.2   -47.0 -0.00216         -0.00211   -59.2   -46.3
            C:715       4                                3748
              Open 60243 SCOTTAP7 115 62666 GLNDALE7 115 1                         -0.01321  0.00356    48.9    27.2
              Open 62666 GLNDALE7 115 62672 GLNDALE869.0 1                         -0.00971  0.00008    25.1    24.5
              Open 60243 SCOTTAP7 115 60244 SCOTTCO7 115 1                         -0.00555  0.00158    24.8    15.2
              Open 60194 CARVRCO7 115 60243 SCOTTAP7 115 1                         -0.00269  0.00000     1.5     1.5
              Open 60194 CARVRCO7 115 60931 CARVRCO869.0 1                         -0.00016 -0.00021    19.7    21.0
275  -6092.7 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -60.3   -47.0 -0.00218         -0.00211   -59.2   -46.3
            C:795                                        3765
              Open 60150 MNVLTAP4 230 66550 GRANITF4 230 1                          0.00436 -0.01397  -311.5  -226.4
              Open 60148 MINVALY7 115 60149 MINVALT4 230 C1                        -0.00484  0.00290    18.2     0.5
              Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                          0.00390  0.00000     0.0     0.0
              Open 60149 MINVALT4 230 60150 MNVLTAP4 230 1     NA
              Open 60742 PANTHER869.0 63054 PANTHER4 230 1                         -0.00739  0.00014   -40.1   -40.9
277  -6076.1 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -60.3   -47.0 -0.00218         -0.00211   -59.2   -46.3
            C:60189 BLK DOG4 230 62980 MCLEOD 4 230 1    1121
              Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                          0.00574 -0.01298  -192.3  -113.4
278  -6076.1 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -60.3   -47.0 -0.00218         -0.00211   -59.2   -46.3
            C:60189 BLK DOG4 230 60190 BLK DOG7 115 C1   1120
              Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                        -0.00574  0.01298   192.3   113.4
279  -6076.1 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -60.3   -47.0 -0.00218         -0.00211   -59.2   -46.3
            C:810   C1                                   3767
              Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                          0.00574 -0.01298  -192.3  -113.4
              Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                         0.00547  0.00000    -0.0    -0.0
282  -6068.6 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -64.1   -47.0 -0.00282         -0.00211   -59.2   -46.4
            C:BLL-PRI/IVH3                               3638
              Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                          0.00832 -0.03964  -143.5    97.0
              Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.00787  0.04835   476.6   183.2
294  -6048.0 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -22.1   -17.3 -0.00080         -0.00089   -19.8   -14.4
            C:60142 BENTON 3 345 60160 SHERCO 3 345 1    1034
              Open 60142 BENTON 3 345 60160 SHERCO 3 345 1                          0.01187  0.00792  -197.5  -245.4
297  -6041.8 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -22.1   -17.3 -0.00080         -0.00089   -19.8   -14.4
            C:675                                        3731
              Open 60142 BENTON 3 345 63045 BENTON 4 230 1                          0.00000 -0.00403   100.4   124.7
              Open 60142 BENTON 3 345 60160 SHERCO 3 345 1                          0.01187  0.00792  -197.5  -245.3
              Open 60142 BENTON 3 345 63045 BENTON 4 230 2                          0.01461  0.00000     0.3     0.3
305  -6032.3 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -59.9   -48.0 -0.00197         -0.00216   -53.9   -40.9
            C:SPC-PRI/CTF5                               3682
              Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                         -0.04135 -0.00257   118.9   134.4
              Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                          0.02632  0.00307   -41.1   -59.6
315  -6015.8 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -59.8   -48.0 -0.00197         -0.00216   -53.9   -40.9
            C:740    1                                   3754
              Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                          0.02632  0.00307   -41.1   -59.6
              Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                         -0.04135 -0.00257   118.9   134.4
              Open 60103 CANNFLS5 161 60104 CANNFLS7 115 1                          0.07231  0.00000     0.4     0.4
338  -5985.4 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -19.1   -13.7 -0.00090         -0.00089   -14.3    -9.0
            C:665                                        3727
              Open 60152 MNTCELO4 230 63043 ELK RIV4 230 1                         -0.01072  0.00329   196.5   176.8
              Open 62134 ELKR14S869.0 63043 ELK RIV4 230 1                          0.02880  0.00086   -92.5   -97.7
339  -5984.3 L:62425 WILLMAR7 115 62427 WILLMAR869.0 1         106.4    84.0  0.00374          0.00127    54.4    46.8
            C:63050 WILLMAR4 230 66550 GRANITF4 230 1    2051
              Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                         -0.24024 -0.01028  -216.5  -155.0
363  -5971.6 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -83.8   -48.0 -0.00600         -0.00216   -53.9   -41.0
            C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
              Open 60108 WILMART3 345 60192 BLUE LK3 345 1                         -0.03397  0.11317   881.7   205.9
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378  -5959.3 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -22.0   -17.3 -0.00079         -0.00089   -19.8   -14.5
             C:62150 E BL TP869.0 62965 ELKRWS1869.0 1    1795
               Open 62150 E BL TP869.0 62965 ELKRWS1869.0 1                          0.13539  0.00074   -16.5   -20.9
393  -5948.5 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -60.2   -47.0 -0.00221         -0.00211   -59.2   -46.6
             C:34006 LAKEFLD3 345 63875 RAUN   3 345 1    2708
               Open 34006 LAKEFLD3 345 63875 RAUN   3 345 1                         -0.00339  0.03120   298.4   112.8
396  -5946.1 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -22.0   -17.3 -0.00079         -0.00089   -19.8   -14.5
             C:62100 BIG LAK869.0 62150 E BL TP869.0 1    1732
               Open 62100 BIG LAK869.0 62150 E BL TP869.0 1                          0.13539  0.00074   -16.4   -20.8
435  -5922.7 L:63189 MAPLER1Y 345 66792 MAPLE R3 345 1        -362.7  -336.0 -0.00451         -0.00235  -189.5  -175.6
             C:63190 MAPLER2Y 345 66754 MAPLE R4 230 1    2066
               Open 63190 MAPLER2Y 345 66754 MAPLE R4 230 1                          -0.91384  0.00235   189.5   175.5
436  -5922.5 L:63189 MAPLER1Y 345 66792 MAPLE R3 345 1        -362.7  -336.0 -0.00451         -0.00235  -189.5  -175.6
             C:MAPLER XFR2                                3791
               Open 63190 MAPLER2Y 345 63360 MAPLER2913.8 1     NA
               Open 63190 MAPLER2Y 345 66754 MAPLE R4 230 1                          -0.91384  0.00235   189.5   175.5
               Open 63190 MAPLER2Y 345 66792 MAPLE R3 345 1                          -0.75623  0.00000    -0.0    -0.0
437  -5922.5 L:63189 MAPLER1Y 345 66792 MAPLE R3 345 1        -362.7  -336.0 -0.00451         -0.00235  -189.5  -175.6
             C:63190 MAPLER2Y 345 66792 MAPLE R3 345 1    2067
               Open 63190 MAPLER2Y 345 66792 MAPLE R3 345 1                           0.91384 -0.00235  -189.5  -175.5
439  -5921.3 L:63190 MAPLER2Y 345 66754 MAPLE R4 230 1         362.7   336.0  0.00451          0.00235   189.5   175.5
             C:63189 MAPLER1Y 345 66792 MAPLE R3 345 1    2065
               Open 63189 MAPLER1Y 345 66792 MAPLE R3 345 1                          -0.91384 -0.00235  -189.5  -175.6
440  -5921.1 L:63190 MAPLER2Y 345 66792 MAPLE R3 345 1        -362.7  -336.0 -0.00451         -0.00235  -189.5  -175.5
             C:63189 MAPLER1Y 345 66792 MAPLE R3 345 1    2065
               Open 63189 MAPLER1Y 345 66792 MAPLE R3 345 1                           0.91384 -0.00235  -189.5  -175.6
449  -5916.1 L:63190 MAPLER2Y 345 66754 MAPLE R4 230 1         362.7   336.0  0.00451          0.00235   189.5   175.5
             C:MAPLER XFR1                                3790
               Open 63189 MAPLER1Y 345 63359 MAPLER1913.8 1     NA
               Open 63189 MAPLER1Y 345 66754 MAPLE R4 230 1                           0.91384  0.00235   189.4   175.5
               Open 63189 MAPLER1Y 345 66792 MAPLE R3 345 1                           0.75623  0.00000     0.1     0.1
450  -5915.9 L:63190 MAPLER2Y 345 66792 MAPLE R3 345 1        -362.7  -336.0 -0.00451         -0.00235  -189.5  -175.5
             C:MAPLER XFR1                                3790
               Open 63189 MAPLER1Y 345 63359 MAPLER1913.8 1     NA
               Open 63189 MAPLER1Y 345 66754 MAPLE R4 230 1                          -0.91384  0.00235   189.4   175.5
               Open 63189 MAPLER1Y 345 66792 MAPLE R3 345 1                          -0.75623  0.00000     0.1     0.1
466  -5910.0 L:66203 FARGO  869.0 67000 MAPLE R869.0 1          50.8    41.0  0.00166          0.00002    14.7    14.6
             C:60133 SHEYNNE4 230 66435 FARGO  4 230 1    1014
               Open 60133 SHEYNNE4 230 66435 FARGO  4 230 1                          -0.23498 -0.00701  -153.7  -112.3
471  -5891.3 L:63190 MAPLER2Y 345 66754 MAPLE R4 230 1         362.5   336.0  0.00451          0.00235   189.5   175.6
             C:63189 MAPLER1Y 345 66754 MAPLE R4 230 1    2064
               Open 63189 MAPLER1Y 345 66754 MAPLE R4 230 1                           0.91384  0.00235   189.4   175.5
472  -5891.1 L:63190 MAPLER2Y 345 66792 MAPLE R3 345 1        -362.5  -336.0 -0.00451         -0.00235  -189.5  -175.6
             C:63189 MAPLER1Y 345 66754 MAPLE R4 230 1    2064
               Open 63189 MAPLER1Y 345 66754 MAPLE R4 230 1                          -0.91384  0.00235   189.4   175.5
473  -5889.9 L:63189 MAPLER1Y 345 66754 MAPLE R4 230 1         362.5   336.0  0.00451          0.00235   189.4   175.5
             C:63190 MAPLER2Y 345 66754 MAPLE R4 230 1    2066
               Open 63190 MAPLER2Y 345 66754 MAPLE R4 230 1                           0.91384  0.00235   189.5   175.6
474  -5889.7 L:63189 MAPLER1Y 345 66754 MAPLE R4 230 1         362.5   336.0  0.00451          0.00235   189.4   175.5
             C:MAPLER XFR2                                3791
               Open 63190 MAPLER2Y 345 63360 MAPLER2913.8 1     NA
               Open 63190 MAPLER2Y 345 66754 MAPLE R4 230 1                           0.91384  0.00235   189.5   175.6
               Open 63190 MAPLER2Y 345 66792 MAPLE R3 345 1                           0.75623  0.00000    -0.0    -0.0
475  -5889.6 L:63189 MAPLER1Y 345 66754 MAPLE R4 230 1         362.5   336.0  0.00451          0.00235   189.4   175.5
             C:63190 MAPLER2Y 345 66792 MAPLE R3 345 1    2067
               Open 63190 MAPLER2Y 345 66792 MAPLE R3 345 1                          -0.91384 -0.00235  -189.5  -175.6
480  -5873.8 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -22.9   -17.3 -0.00095         -0.00089   -19.8   -14.5
             C:60152 MNTCELO4 230 63043 ELK RIV4 230 1    1060
               Open 60152 MNTCELO4 230 63043 ELK RIV4 230 1                          -0.01556  0.00329   196.5   177.1
484  -5855.9 L:60173 ROSEAUN2 500 67564 DORSEY 2 500 1       -1835.3 -1732.0 -0.01764
               Base Case
491  -5827.6 L:34206 WAPELLO869.0 34553 WAPELO2Y 161 2        -157.4  -131.0 -0.00453         -0.00262   -91.1   -75.9
             C:34206 WAPELLO869.0 34552 WAPELO1Y 161 1     337
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                Open 34206 WAPELLO869.0 34552 WAPELO1Y 161 1                          0.73080 -0.00261   -90.7   -75.5
492  -5827.6 L:34206 WAPELLO869.0 34553 WAPELO2Y 161 2        -157.4  -131.0 -0.00453         -0.00262   -91.1   -75.9
             C:WAPELLO T1                                  3786
                Open 34182 WAPELLO5 161 34552 WAPELO1Y 161 1                         -0.73080  0.00261    90.7    75.5
                Open 34206 WAPELLO869.0 34552 WAPELO1Y 161 1                          0.64972  0.00000    -0.0    -0.0
493  -5827.6 L:34182 WAPELLO5 161 34553 WAPELO2Y 161 2         157.4   131.0  0.00453          0.00262    91.1    75.9
             C:34206 WAPELLO869.0 34552 WAPELO1Y 161 1     337
                Open 34206 WAPELLO869.0 34552 WAPELO1Y 161 1                         -0.73080 -0.00261   -90.7   -75.5
494  -5827.6 L:34182 WAPELLO5 161 34553 WAPELO2Y 161 2         157.4   131.0  0.00453          0.00262    91.1    75.9
             C:WAPELLO T1                                  3786
                Open 34182 WAPELLO5 161 34552 WAPELO1Y 161 1                          0.73080  0.00261    90.7    75.5
                Open 34206 WAPELLO869.0 34552 WAPELO1Y 161 1                         -0.64972  0.00000    -0.0    -0.0
495  -5827.6 L:34206 WAPELLO869.0 34553 WAPELO2Y 161 2        -157.4  -131.0 -0.00453         -0.00262   -91.1   -75.9
             C:34182 WAPELLO5 161 34552 WAPELO1Y 161 1     296
                Open 34182 WAPELLO5 161 34552 WAPELO1Y 161 1                         -0.73080  0.00261    90.7    75.5
496  -5827.6 L:34182 WAPELLO5 161 34553 WAPELO2Y 161 2         157.4   131.0  0.00453          0.00262    91.1    75.9
             C:34182 WAPELLO5 161 34552 WAPELO1Y 161 1     296
                Open 34182 WAPELLO5 161 34552 WAPELO1Y 161 1                          0.73080  0.00261    90.7    75.5
504  -5810.8 L:34384 MCARMOR869.0 34396 EMERY N869.0 1         -72.0   -51.0 -0.00361         -0.00199   -43.6   -32.0
             C:34393 MCHW106869.0 34395 EMERY S869.0 1     550
                Open 34393 MCHW106869.0 34395 EMERY S869.0 1                          0.55937 -0.00289   -50.8   -34.0
510  -5800.8 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -24.2   -17.3 -0.00119         -0.00089   -19.8   -14.6
             C:60189 BLK DOG4 230 60190 BLK DOG7 115 C1   1120
                Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                        -0.02300  0.01298   192.3   117.0
511  -5800.8 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -24.2   -17.3 -0.00119         -0.00089   -19.8   -14.6
             C:810   C1                                    3767
                Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                          0.02300 -0.01298  -192.3  -117.0
                Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                         0.00056  0.00000    -0.0    -0.0
512  -5800.8 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -24.2   -17.3 -0.00119         -0.00089   -19.8   -14.6
             C:60189 BLK DOG4 230 62980 MCLEOD 4 230 1    1121
                Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                          0.02300 -0.01298  -192.3  -117.0
525  -5786.0 L:34206 WAPELLO869.0 34552 WAPELO1Y 161 1        -157.2  -131.0 -0.00452         -0.00261   -90.7   -75.6
             C:WAPELLO T2                                  3787
                Open 34182 WAPELLO5 161 34553 WAPELO2Y 161 2                         -0.72974  0.00262    91.1    76.0
                Open 34206 WAPELLO869.0 34553 WAPELO2Y 161 2                          0.64878  0.00000    -0.0    -0.0
526  -5786.0 L:34206 WAPELLO869.0 34552 WAPELO1Y 161 1        -157.2  -131.0 -0.00452         -0.00261   -90.7   -75.6
             C:34206 WAPELLO869.0 34553 WAPELO2Y 161 2     338
                Open 34206 WAPELLO869.0 34553 WAPELO2Y 161 2                          0.72974 -0.00262   -91.1   -76.0
527  -5786.0 L:34182 WAPELLO5 161 34552 WAPELO1Y 161 1         157.2   131.0  0.00452          0.00261    90.7    75.6
             C:34206 WAPELLO869.0 34553 WAPELO2Y 161 2     338
                Open 34206 WAPELLO869.0 34553 WAPELO2Y 161 2                         -0.72974 -0.00262   -91.1   -76.0
528  -5786.0 L:34206 WAPELLO869.0 34552 WAPELO1Y 161 1        -157.2  -131.0 -0.00452         -0.00261   -90.7   -75.6
             C:34182 WAPELLO5 161 34553 WAPELO2Y 161 2     297
                Open 34182 WAPELLO5 161 34553 WAPELO2Y 161 2                         -0.72974  0.00262    91.1    76.0
529  -5786.0 L:34182 WAPELLO5 161 34552 WAPELO1Y 161 1         157.2   131.0  0.00452          0.00261    90.7    75.6
             C:WAPELLO T2                                  3787
                Open 34182 WAPELLO5 161 34553 WAPELO2Y 161 2                          0.72974  0.00262    91.1    76.0
                Open 34206 WAPELLO869.0 34553 WAPELO2Y 161 2                         -0.64878  0.00000    -0.0    -0.0
530  -5786.0 L:34182 WAPELLO5 161 34552 WAPELO1Y 161 1         157.2   131.0  0.00452          0.00261    90.7    75.6
             C:34182 WAPELLO5 161 34553 WAPELO2Y 161 2     297
                Open 34182 WAPELLO5 161 34553 WAPELO2Y 161 2                          0.72974  0.00262    91.1    76.0
547  -5767.2 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -59.2   -47.0 -0.00211
                Base Case
564  -5750.5 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -23.3   -17.3 -0.00105         -0.00089   -19.8   -14.7
             C:60202 COON CK3 345 63030 DICKNSN3 345 1    1157
                Open 60202 COON CK3 345 63030 DICKNSN3 345 1                          0.00903 -0.01742  -393.2  -293.0
577  -5726.9 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -21.3   -13.7 -0.00132         -0.00089   -14.3    -9.2
             C:60703 WATKINS869.0 62620 WATKINS869.0 1    3072
                Open 60703 WATKINS869.0 62620 WATKINS869.0 1                          0.32182 -0.00132   -21.5   -13.9
582  -5721.8 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -60.3   -47.0 -0.00233         -0.00211   -59.2   -47.1
             C:34010 HAYWARD5 161 34013 WNBAGOS5 161 1      33
                Open 34010 HAYWARD5 161 34013 WNBAGOS5 161 1                          0.00656 -0.03350  -177.1    14.6
594  -5704.3 L:60145 FRANKLN7 115 60728 FRANKLN869.0 2          62.3    47.0  0.00268          0.00115    32.4    25.8
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              C:60150 MNVLTAP4 230 63054 PANTHER4 230 1    2952
                Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                          0.09084  0.01687   329.7   233.5
595  -5704.3 L:60145 FRANKLN7 115 60728 FRANKLN869.0 1          62.3    47.0  0.00268          0.00115    32.4    25.8
              C:60150 MNVLTAP4 230 63054 PANTHER4 230 1    2952
                Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                          0.09084  0.01687   329.7   233.5
600  -5690.2 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -67.2   -48.0 -0.00337         -0.00216   -53.9   -41.6
              C:60107 W FARIB7 115 61952 S FARIB5 161 1     955
                Open 60107 W FARIB7 115 61952 S FARIB5 161 1                         -0.08328  0.01457   159.6    76.7
604  -5674.0 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -18.6   -13.7 -0.00086         -0.00089   -14.3    -9.3
              C:62138 BRGGLKS869.0 62139 CABLETP869.0 1    1783
                Open 62138 BRGGLKS869.0 62139 CABLETP869.0 1                          0.15187  0.00024   -27.8   -29.2
618  -5641.6 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1819.4  1732.0  0.01550          0.01764  1791.3  1691.8
              C:60126 SPLT RK3 345 60130 SPLTRTA3 345 1    1001
                Open 60126 SPLT RK3 345 60130 SPLTRTA3 345 1                         -0.04876  0.04394  -576.4  -824.3
619  -5641.3 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1819.4  1732.0  0.01550          0.01764  1791.3  1691.8
              C:60130 SPLTRTA3 345 66537 WHITE  3 345 1    1008
                Open 60130 SPLTRTA3 345 66537 WHITE  3 345 1                         -0.04876  0.04394  -576.3  -824.2
620  -5633.7 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -57.4   -47.0 -0.00185         -0.00211   -59.2   -47.3
              C:61950 BYRON  3 345 63032 PL VLLY3 345 1    3375
                Open 61950 BYRON  3 345 63032 PL VLLY3 345 1                          0.00310  0.08464   567.6    90.8
622  -5627.6 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -67.0   -48.0 -0.00337         -0.00216   -53.9   -41.7
              C:61952 S FARIB5 161 61964 OWATNNA5 161 1    1697
                Open 61952 S FARIB5 161 61964 OWATNNA5 161 1                         -0.08328  0.01457   157.1    75.1
624  -5621.4 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -24.7   -17.3 -0.00132         -0.00089   -19.8   -14.8
              C:60704 KIMBALL869.0 60761 SOUTHVN869.0 1    1406
                Open 60704 KIMBALL869.0 60761 SOUTHVN869.0 1                         -0.32182  0.00132    15.3     7.9
631  -5577.7 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -60.3   -48.0 -0.00221         -0.00216   -53.9   -41.9
              C:60905 FRMNGTN869.0 62259 LKMARN 869.0 1    3207
                Open 60905 FRMNGTN869.0 62259 LKMARN 869.0 1                          0.20992 -0.00024   -30.6   -29.3
637  -5547.8 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -60.5   -48.0 -0.00225         -0.00216   -53.9   -41.9
              C:700    2                                   3738
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.01917  0.04835   476.6   208.4
                Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                          0.01602  0.05190   157.6  -130.3
638  -5547.8 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -60.5   -48.0 -0.00225         -0.00216   -53.9   -41.9
              C:IVH-BLL/RRK3                               3643
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.01917  0.04835   476.6   208.4
                Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                          0.01602  0.05190   157.6  -130.3
644  -5535.2 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -57.9   -47.0 -0.00197         -0.00211   -59.2   -47.5
              C:60113 DOME   7 115 60830 EASTWD18 115 P1    972
                Open 60113 DOME   7 115 60830 EASTWD18 115 P1                          0.01289  0.01053    96.2    38.0
645  -5534.9 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -24.6   -17.3 -0.00132         -0.00089   -19.8   -14.8
              C:60712 ANNDALE869.0 60761 SOUTHVN869.0 1    1410
                Open 60712 ANNDALE869.0 60761 SOUTHVN869.0 1                          0.32182 -0.00132   -14.9    -7.6
646  -5534.1 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -22.2   -17.3 -0.00089         -0.00089   -19.8   -14.8
              C:62986 HUTCHMN869.0 62988 HTCHHTI869.0 1    2029
                Open 62986 HUTCHMN869.0 62988 HTCHHTI869.0 1                         -0.08394  0.00000    29.2    29.2
647  -5524.6 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -57.9   -47.0 -0.00197         -0.00211   -59.2   -47.5
              C:60110 WILMART7 115 60113 DOME   7 115 C1    963
                Open 60110 WILMART7 115 60113 DOME   7 115 C1                          0.01289  0.01053    97.9    39.7
653  -5476.1 L:63223 HOOT LK7 115 63231 FERGSFL7 115 1        -116.4   -96.0 -0.00372         -0.00002   -44.9   -44.8
              C:63051 HENNING4 230 63052 INMAN  4 230 1    2052
                Open 63051 HENNING4 230 63052 INMAN  4 230 1                         -0.34006  0.01089   210.2   150.5
655  -5475.0 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          25.0    19.3  0.00104          0.00055    23.3    20.3
              C:60686 E MELRO869.0 60754 MELRSMU869.0 1    1397
                Open 60686 E MELRO869.0 60754 MELRSMU869.0 1                         -0.62927 -0.00078    -2.7     1.6
657  -5470.1 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -56.5   -47.0 -0.00173         -0.00211   -59.2   -47.6
              C:60805 WATRVIL869.0 62679 ELYSNTP869.0 1    3152
                Open 60805 WATRVIL869.0 62679 ELYSNTP869.0 1                         -0.11878 -0.00315   -22.5    -5.3
660  -5462.4 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -61.9   -48.0 -0.00254         -0.00216   -53.9   -42.1
              C:700    1                                   3737
                Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                          0.00507 -0.03964  -143.5    73.0
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.02037  0.04835   476.6   212.5
                Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                          0.01540  0.05190   157.6  -125.9
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671  -5433.1 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -58.8   -48.0 -0.00199         -0.00216   -53.9   -42.2
             C:60104 CANNFLS7 115 60801 CNFLSTR869.0 1     946
               Open 60104 CANNFLS7 115 60801 CNFLSTR869.0 1                          -0.14830 -0.00113    33.2    39.3
675  -5412.1 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -57.3   -47.0 -0.00189         -0.00211   -59.2   -47.7
             C:60824 FRONTNC869.0 61960 LAKECITY69.0 1    1483
               Open 60824 FRONTNC869.0 61960 LAKECITY69.0 1                           0.05943  0.00360    32.1    12.6
676  -5411.3 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -22.9   -17.3 -0.00104         -0.00089   -19.8   -15.0
             C:CNC-DKN/SHC3                               3634
               Open 60202 COON CK3 345 63030 DICKNSN3 345 1                           0.00893 -0.01742  -393.2  -298.9
               Open 60202 COON CK3 345 60272 MPLEGV23 345 1                          -0.00076 -0.00782  -475.5  -433.2
678  -5388.0 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -59.3   -48.0 -0.00209         -0.00216   -53.9   -42.3
             C:60217 INVRHLS3 345 60218 INVRHLS7 115 1    1196
               Open 60217 INVRHLS3 345 60218 INVRHLS7 115 1                          -0.01712 -0.00355   316.1   335.2
679  -5382.0 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -57.5   -47.0 -0.00195         -0.00211   -59.2   -47.8
             C:60808 EAGLELK869.0 62347 EAGLELK869.0 1    3154
               Open 60808 EAGLELK869.0 62347 EAGLELK869.0 1                          -0.04891 -0.00322   -33.9   -16.6
680  -5377.9 L:60264 LOON LK7 115 61976 LOON LK869.0 1         121.9    75.0  0.00873          0.00538    85.3    56.4
             C:60107 W FARIB7 115 61952 S FARIB5 161 1     955
               Open 60107 W FARIB7 115 61952 S FARIB5 161 1                           0.22945  0.01457   159.6    81.3
682  -5370.4 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          22.1    19.3  0.00053          0.00055    23.3    20.4
             C:SHC-CNC/BUL3                               3630
               Open 60160 SHERCO 3 345 60202 COON CK3 345 1                          -0.00120  0.00772   472.9   431.5
               Open 60160 SHERCO 3 345 63031 BUNKER 3 345 1                          -0.00120  0.00766   491.3   450.2
683  -5369.4 L:60749 DGLAS C869.0 60750 OSAKIS 869.0 1          43.2    37.0  0.00115          0.00034    29.0    27.2
             C:500                                        3718
               Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                          -0.07906 -0.01028  -216.5  -161.3
               Open 62427 WILLMAR869.0 63050 WILLMAR4 230 1                           0.07685  0.00004   -38.4   -38.6
686  -5359.1 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -57.0   -47.0 -0.00186         -0.00211   -59.2   -47.9
             C:ASK-RRK/ECL3                               3642
               Open 60186 AS KING3 345 60236 REDROCK3 345 1                          -0.00198 -0.01969   140.3   245.8
               Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.00123  0.06362   901.3   560.3
               Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.00197 -0.06704  -692.1  -332.8
687  -5346.1 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -20.8   -13.7 -0.00132         -0.00089   -14.3    -9.6
             C:60703 WATKINS869.0 60704 KIMBALL869.0 1    1405
               Open 60703 WATKINS869.0 60704 KIMBALL869.0 1                          -0.32182  0.00132    19.9    12.9
690  -5339.6 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -22.1   -17.3 -0.00089         -0.00089   -19.8   -15.0
             C:60000 SHERC31G24.0 60160 SHERCO 3 345 1    2890
               Open 60000 SHERC31G24.0 60160 SHERCO 3 345 1                           0.00393  0.00000  -580.3  -580.3
693  -5320.0 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          24.5    19.3  0.00097          0.00055    23.3    20.4
             C:60710 FARM TP869.0 60711 RICHMND869.0 1    1409
               Open 60710 FARM TP869.0 60711 RICHMND869.0 1                           0.34070  0.00123     3.4    -3.2
694  -5312.3 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -22.9   -17.3 -0.00105         -0.00089   -19.8   -15.0
             C:009   4                                    3698
               Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                           0.00074  0.00782   479.8   438.2
               Open 60202 COON CK3 345 60272 MPLEGV23 345 1                           0.00397  0.00000     4.2     4.2
               Open 60202 COON CK3 345 63030 DICKNSN3 345 1                           0.00896 -0.01742  -393.2  -300.6
               Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                           0.00029 -0.00156   331.6   339.9
               Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                           0.00368  0.00000     0.1     0.1
               Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1      NA
695  -5311.6 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -57.4   -47.0 -0.00195         -0.00211   -59.2   -48.0
             C:60831 EASTWD2869.0 62347 EAGLELK869.0 1    3179
               Open 60831 EASTWD2869.0 62347 EAGLELK869.0 1                           0.04891  0.00322    36.7    19.6
696  -5311.3 L:60264 LOON LK7 115 61976 LOON LK869.0 1         121.3    75.0  0.00873          0.00538    85.3    56.7
             C:61952 S FARIB5 161 61964 OWATNNA5 161 1    1697
               Open 61952 S FARIB5 161 61964 OWATNNA5 161 1                           0.22945  0.01457   157.1    79.7
697  -5307.6 L:60107 W FARIB7 115 62865 AIRTECH7 115 1        -142.6  -139.0 -0.00068          0.00497   -85.8  -112.2
             C:60105 PR ISLD3 345 61950 BYRON  3 345 1     951
               Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                          -0.07399  0.07639   767.2   361.8
698  -5299.7 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -56.8   -47.0 -0.00185         -0.00211   -59.2   -48.0
             C:60110 WILMART7 115 60830 EASTWD18 115 P1    968
               Open 60110 WILMART7 115 60830 EASTWD18 115 P1                          0.01722  0.01502   136.8    57.3
699  -5292.1 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          22.1    19.3  0.00054          0.00055    23.3    20.4
             C:665                                        3727
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                Open 60152 MNTCELO4 230 63043 ELK RIV4 230 1                          -0.00416  0.00329   196.5   179.1
                Open 62134 ELKR14S869.0 63043 ELK RIV4 230 1                           0.00368  0.00086   -92.5   -97.1
700  -5289.6 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1          -56.2   -47.0 -0.00173         -0.00211   -59.2   -48.0
              C:60808 EAGLELK869.0 62679 ELYSNTP869.0 1    3156
                Open 60808 EAGLELK869.0 62679 ELYSNTP869.0 1                           0.11878  0.00315    25.1     8.5
701  -5289.0 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1          -22.0   -17.3 -0.00089         -0.00089   -19.8   -15.1
              C:60001 SHERC32G24.0 60160 SHERCO 3 345 1    2891
                Open 60001 SHERC32G24.0 60160 SHERCO 3 345 1                           0.00393  0.00000  -568.8  -568.8
702  -5288.9 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1           20.7    13.7  0.00132          0.00089    11.3     6.6
              C:60717 WAKEFLD869.0 62846 FRHV TP869.0 1    3081
                Open 60717 WAKEFLD869.0 62846 FRHV TP869.0 1                           0.32182  0.00132    29.2    22.2
703  -5288.8 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1           22.1    19.3  0.00053          0.00055    23.3    20.4
              C:670     1                                  3728
                Open 60160 SHERCO 3 345 60202 COON CK3 345 1                          -0.00119  0.00772   472.9   432.1
                Open 60160 SHERCO 3 345 63031 BUNKER 3 345 1                          -0.00119  0.00766   491.3   450.8
                Open 60202 COON CK3 345 63031 BUNKER 3 345 1                           0.00000 -0.00803  -364.6  -322.2
                Open 60202 COON CK3 345 61487 CNCMID2Y 345 1                          -0.00014 -0.00154   328.4   336.6
                Open 60203 COON CK7 115 61487 CNCMID2Y 345 1                          -0.00068  0.00000     0.1     0.1
                Open 60655 CNCTER2934.5 61487 CNCMID2Y 345 1     NA
                Open 63031 BUNKER 3 345 63046 BUNKER 4 230 1                          -0.00082  0.00000     4.3     4.3
704  -5286.0 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1          -57.1   -47.0 -0.00191         -0.00211   -59.2   -48.0
              C:39244 ARP 345  345 60304 EAU CL 3 345 1    2888
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.00300 -0.06704  -692.1  -337.7
705  -5276.1 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1          -20.2   -13.7 -0.00124         -0.00089   -14.3    -9.6
              C:60156 PYNSVIL7 115 60356 PAYNES 4 230 C1   1069
                Open 60156 PYNSVIL7 115 60356 PAYNES 4 230 C1                          0.03360 -0.01032  -175.7  -121.2
706  -5276.1 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1          -20.2   -13.7 -0.00124         -0.00089   -14.3    -9.6
              C:60356 PAYNES 4 230 63050 WILLMAR4 230 C1   1365
                Open 60356 PAYNES 4 230 63050 WILLMAR4 230 C1                          0.03360 -0.01032  -175.7  -121.2
707  -5275.6 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1          -57.0   -47.0 -0.00190         -0.00211   -59.2   -48.0
              C:050    3                                  3717
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.00305 -0.06704  -692.1  -338.4
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                          -0.00074 -0.00300     0.0    15.8
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                          -0.00046 -0.00148   -42.6   -34.8
708  -5274.2 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1          -57.0   -47.0 -0.00189         -0.00211   -59.2   -48.0
              C:60823 REDWING869.0 60824 FRONTNC869.0 1    1481
                Open 60823 REDWING869.0 60824 FRONTNC869.0 1                           0.05943  0.00360    36.5    17.5
710  -5267.7 L:60949 MONROCO869.0 68847 SPARTA  69.0 1           81.7    47.0  0.00659          0.00439    62.9    39.8
              C:050    2                                  3716
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          -0.01610  0.06362   901.3   566.2
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.04814 -0.06704  -692.1  -339.0
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                           0.00000 -0.00175    77.5    86.7
712  -5250.7 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1          -58.1   -47.0 -0.00211         -0.00211   -59.2   -48.1
              C:60789 CIRCLTP869.0 62872 FARIBLT869.0 1    3140
                Open 60789 CIRCLTP869.0 62872 FARIBLT869.0 1                           0.22127  0.00000     4.9     4.9
714  -5249.1 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1          -58.1   -47.0 -0.00211         -0.00211   -59.2   -48.1
              C:60820 LENATAP869.0 62382 LENA TP869.0 1    3170
                Open 60820 LENATAP869.0 62382 LENA TP869.0 1                           0.20033  0.00000     5.5     5.5
715  -5248.8 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1          -58.1   -47.0 -0.00211         -0.00211   -59.2   -48.1
              C:60818 ZUMBRTA869.0 60820 LENATAP869.0 1    1479
                Open 60818 ZUMBRTA869.0 60820 LENATAP869.0 1                           0.20033  0.00000     5.5     5.5
716  -5228.1 L:60949 MONROCO869.0 68847 SPARTA  69.0 1           81.4    47.0  0.00659          0.00439    62.9    40.0
              C:ASK-RRK/ECL3                               3642
                Open 60186 AS KING3 345 60236 REDROCK3 345 1                          -0.00060 -0.01969   140.3   243.3
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          -0.01630  0.06362   901.3   568.7
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.04814 -0.06704  -692.1  -341.6
717  -5207.2 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1          -57.7   -47.0 -0.00205         -0.00211   -59.2   -48.2
              C:60787 NOFIELD869.0 62256 CSTL RK869.0 1    3138
                Open 60787 NOFIELD869.0 62256 CSTL RK869.0 1                           0.19701  0.00031     7.6     6.0
719  -5196.1 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1          -58.0   -47.0 -0.00211         -0.00211   -59.2   -48.2
              C:60795 KENYNVL869.0 60797 KENYNTP869.0 1    1465
                Open 60795 KENYNVL869.0 60797 KENYNTP869.0 1                           0.40958  0.00000     2.9     2.9
720  -5192.6 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1821.4  1732.0  0.01722          0.01764  1791.3  1699.7
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            C:66506 FTTHOMP3 345 67105 LELANDO3 345 1    2451
              Open 66506 FTTHOMP3 345 67105 LELANDO3 345 1                          -0.08706  0.00484  -345.5  -370.6
721  -5191.0 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -21.9   -17.3 -0.00089         -0.00089   -19.8   -15.2
            C:60005 MNTCE31G22.0 60151 MNTCELO3 345 1    2895
              Open 60005 MNTCE31G22.0 60151 MNTCELO3 345 1                           0.00375  0.00000  -571.4  -571.4
723  -5178.6 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -57.1   -47.0 -0.00195         -0.00211   -59.2   -48.2
            C:60650 WILMART869.0 60831 EASTWD2869.0 1    1375
              Open 60650 WILMART869.0 60831 EASTWD2869.0 1                           0.04891  0.00322    42.0    25.4
724  -5155.4 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -26.7   -19.3 -0.00144         -0.00094   -19.4   -14.6
            C:60194 CARVRCO7 115 60243 SCOTTAP7 115 1    1132
              Open 60194 CARVRCO7 115 60243 SCOTTAP7 115 1                          -0.09734  0.00514    75.2    48.8
725  -5146.1 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -22.6   -17.3 -0.00103         -0.00089   -19.8   -15.2
            C:63050 WILLMAR4 230 66550 GRANITF4 230 1    2051
              Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                           0.01287 -0.01028  -216.5  -163.6
729  -5118.3 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -78.7   -48.0 -0.00600         -0.00216   -48.8   -37.7
            C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
              Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          -0.03397  0.11317   881.7   302.5
730  -5090.7 L:60749 DGLAS C869.0 60750 OSAKIS 869.0 1          42.8    37.0  0.00115          0.00034    29.0    27.3
            C:60156 PYNSVIL7 115 60356 PAYNES 4 230 C1   1069
              Open 60156 PYNSVIL7 115 60356 PAYNES 4 230 C1                         -0.07871 -0.01032  -175.7  -123.1
731  -5090.6 L:60749 DGLAS C869.0 60750 OSAKIS 869.0 1          42.8    37.0  0.00115          0.00034    29.0    27.3
            C:60356 PAYNES 4 230 63050 WILLMAR4 230 C1   1365
              Open 60356 PAYNES 4 230 63050 WILLMAR4 230 C1                         -0.07871 -0.01032  -175.7  -123.1
733  -5086.9 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -367.4  -318.0 -0.00971         -0.01397  -311.5  -240.5
            C:60126 SPLT RK3 345 60130 SPLTRTA3 345 1    1001
              Open 60126 SPLT RK3 345 60130 SPLTRTA3 345 1                           0.09694  0.04394  -576.4  -799.9
734  -5085.7 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -367.4  -318.0 -0.00971         -0.01397  -311.5  -240.5
            C:60130 SPLTRTA3 345 66537 WHITE  3 345 1    1008
              Open 60130 SPLTRTA3 345 66537 WHITE  3 345 1                           0.09694  0.04394  -576.3  -799.7
736  -5071.5 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -21.6   -17.3 -0.00086         -0.00089   -19.8   -15.3
            C:62122 WESTEND869.0 62125 BECKER 869.0 1    1762
              Open 62122 WESTEND869.0 62125 BECKER 869.0 1                          -0.15187 -0.00024    12.2    13.4
739  -5037.6 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -21.7   -17.3 -0.00088         -0.00089   -19.8   -15.3
            C:60151 MNTCELO3 345 60152 MNTCELO4 230 1    1057
              Open 60151 MNTCELO3 345 60152 MNTCELO4 230 1                          -0.01146 -0.00097   170.4   175.3
740  -5016.4 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1820.5  1732.0  0.01764          0.01764  1791.3  1702.8
            C:60002 SHERC33G26.0 60160 SHERCO 3 345 1    2892
              Open 60002 SHERC33G26.0 60160 SHERCO 3 345 1                          -0.03331  0.00000  -875.5  -875.5
741  -5015.1 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -56.7   -47.0 -0.00194         -0.00211   -59.2   -48.6
            C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
              Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.00272  0.06362   901.3   582.2
742  -5013.7 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -58.0   -47.0 -0.00220         -0.00211   -59.2   -48.6
            C:34006 LAKEFLD3 345 60286 NOBLES 3 345 C1     20
              Open 34006 LAKEFLD3 345 60286 NOBLES 3 345 C1                         -0.00369  0.02531  -303.2  -430.1
743  -4999.9 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -58.8   -48.0 -0.00216         -0.00216   -53.9   -43.1
            C:60002 SHERC33G26.0 60160 SHERCO 3 345 1    2892
              Open 60002 SHERC33G26.0 60160 SHERCO 3 345 1                           0.00560  0.00000  -875.5  -875.5
744  -4987.4 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -18.2   -13.7 -0.00090         -0.00089   -14.3    -9.9
            C:60162 WAKEFLD7 115 60717 WAKEFLD869.0 1    1080
              Open 60162 WAKEFLD7 115 60717 WAKEFLD869.0 1                          -0.10122  0.00009    38.1    37.7
745  -4985.5 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -60.9   -48.0 -0.00259         -0.00216   -53.9   -43.1
            C:60791 FARIBLT869.0 60794 NRSTRND869.0 P1   1463
              Open 60791 FARIBLT869.0 60794 NRSTRND869.0 P1                         -0.27260  0.00161    25.9    17.9
746  -4981.7 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          22.1    19.3  0.00056          0.00055    23.3    20.6
            C:009   1                                    3696
              Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                          -0.00121  0.00782   479.8   440.8
              Open 60202 COON CK3 345 60272 MPLEGV23 345 1                          -0.00110  0.00000     4.2     4.2
              Open 60151 MNTCELO3 345 60160 SHERCO 3 345 1                           0.00138  0.01528  -382.8  -458.9
              Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                          -0.00030 -0.00156   331.6   339.3
              Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                          -0.00080  0.00000     0.1     0.1
              Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1     NA
747  -4919.5 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -66.8   -48.0 -0.00382         -0.00216   -53.9   -43.3
            C:61948 BYRON  5 161 61964 OWATNNA5 161 1    1696
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              Open 61948 BYRON  5 161 61964 OWATNNA5 161 1                          0.08197 -0.02028  -157.4   -57.7
748  -4906.9 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -17.9   -13.7 -0.00086         -0.00089   -14.3   -10.0
             C:62122 WESTEND869.0 62138 BRGGLKS869.0 1    1763
              Open 62122 WESTEND869.0 62138 BRGGLKS869.0 1                          0.15187  0.00024   -23.5   -24.6
750  -4894.3 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -56.1   -47.0 -0.00185         -0.00211   -59.2   -48.8
             C:050    2                                   3716
              Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00189  0.06362   901.3   589.9
              Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.00199 -0.06704  -692.1  -364.0
              Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          0.00000 -0.00175    77.5    86.0
751  -4893.7 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -66.7   -48.0 -0.00382         -0.00216   -53.9   -43.3
             C:BYN-WOW/KAN5                               3653
              Open 61948 BYRON  5 161 61964 OWATNNA5 161 1                          0.08197 -0.02028  -157.4   -58.2
              Open 60799 KASSON 869.0 61161 BYRON  869.0 1                          0.00368  0.00000    26.8    26.8
752  -4889.4 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -57.8   -47.0 -0.00221         -0.00211   -59.2   -48.9
             C:60130 SPLTRTA3 345 66537 WHITE  3 345 1    1008
              Open 60130 SPLTRTA3 345 66537 WHITE  3 345 1                         -0.00234  0.04394  -576.3  -791.1
753  -4889.3 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -57.8   -47.0 -0.00221         -0.00211   -59.2   -48.9
             C:60126 SPLT RK3 345 60130 SPLTRTA3 345 1    1001
              Open 60126 SPLT RK3 345 60130 SPLTRTA3 345 1                         -0.00234  0.04394  -576.4  -791.2
754  -4887.3 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -56.0   -47.0 -0.00185         -0.00211   -59.2   -48.9
             C:050    1                                   3715
              Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00188  0.06362   901.3   590.4
              Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.00203 -0.06704  -692.1  -364.5
              Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          0.00000 -0.00175    77.5    86.0
              Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                         -0.00058 -0.00300     0.0    14.7
              Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                         -0.00034 -0.00148   -42.6   -35.4
755  -4853.0 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          22.1    19.3  0.00057          0.00055    23.3    20.6
             C:009   7                                    3701
              Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                         -0.00112  0.00782   479.8   441.8
              Open 60202 COON CK3 345 60272 MPLEGV23 345 1                         -0.00117  0.00000     4.2     4.2
              Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                         -0.00189 -0.01568   349.1   425.2
              Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                         -0.00012 -0.00156   331.6   339.1
              Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                         -0.00105  0.00000     0.1     0.1
              Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1     NA
758  -4801.3 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          22.0    19.3  0.00057          0.00055    23.3    20.7
             C:60114 ELM CRK3 345 60151 MNTCELO3 345 1     974
              Open 60114 ELM CRK3 345 60151 MNTCELO3 345 1                          0.00201  0.01063  -631.1  -682.2
759  -4796.2 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -57.1   -47.0 -0.00211         -0.00211   -59.2   -49.0
             C:60110 WILMART7 115  8007 G261-CT215.0 1    2940
              Open 60110 WILMART7 115  8007 G261-CT215.0 1                         -0.01201  0.00000  -170.5  -170.5
760  -4796.2 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -57.1   -47.0 -0.00211         -0.00211   -59.2   -49.0
             C:60110 WILMART7 115  8006 G261-CT115.0 1    2939
              Open 60110 WILMART7 115  8006 G261-CT115.0 1                         -0.01201  0.00000  -170.5  -170.5
761  -4785.1 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -60.4   -48.0 -0.00259         -0.00216   -53.9   -43.6
             C:60794 NRSTRND869.0 62389 KENYON 869.0 1    3143
              Open 60794 NRSTRND869.0 62389 KENYON 869.0 1                         -0.27260  0.00161    24.0    16.3
762  -4783.2 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1814.2  1732.0  0.01718          0.01764  1791.3  1707.0
             C:67120 HURON  3 345 67204 BRDLNDTY 345 1    2613
              Open 67120 HURON  3 345 67204 BRDLNDTY 345 1                          0.07523 -0.00606   303.9   332.9
763  -4783.2 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1814.2  1732.0  0.01718          0.01764  1791.3  1707.0
             C:67101 ANTELOP3 345 67120 HURON  3 345 1    2595
              Open 67101 ANTELOP3 345 67120 HURON  3 345 1                          0.07523 -0.00606   303.9   332.9
764  -4781.6 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1814.2  1732.0  0.01718          0.01764  1791.3  1707.0
             C:67204 BRDLNDTY 345 67205 BRDLAND4 230 1    2635
              Open 67204 BRDLNDTY 345 67205 BRDLAND4 230 1                          0.07523 -0.00606   303.6   332.5
765  -4780.7 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1814.2  1732.0  0.01718          0.01764  1791.3  1707.0
             C:66514 HURON  4 230 67205 BRDLAND4 230 1    2482
              Open 66514 HURON  4 230 67205 BRDLAND4 230 1                         -0.07523  0.00606  -303.4  -332.3
766  -4750.8 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -19.5   -13.7 -0.00122         -0.00089   -14.3   -10.1
             C:500                                        3718
              Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                          0.03165 -0.01028  -216.5  -167.7
              Open 62427 WILLMAR869.0 63050 WILLMAR4 230 1                         -0.04414  0.00004   -38.4   -38.6
767  -4750.0 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -57.0   -47.0 -0.00211         -0.00211   -59.2   -49.1
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            C:60108 WILMART3 345  8001 G261-ST 19.5 1    2938
              Open 60108 WILMART3 345  8001 G261-ST 19.5 1                          -0.00658  0.00000  -326.0  -326.0
769  -4720.0 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -21.5   -17.3 -0.00089         -0.00089   -19.8   -15.6
            C:62984 HUTCHPT869.0 62988 HTCHHTI869.0 1    2026
              Open 62984 HUTCHPT869.0 62988 HTCHHTI869.0 1                          -0.08394  0.00000    20.5    20.5
770  -4714.0 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1812.6  1732.0  0.01710          0.01764  1791.3  1708.2
            C:67105 LELANDO3 345 67160 GROTON 3 345 1    2602
              Open 67105 LELANDO3 345 67160 GROTON 3 345 1                           0.07379 -0.00734   288.3   322.9
771  -4713.4 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -56.9   -47.0 -0.00209         -0.00211   -59.2   -49.2
            C:60107 W FARIB7 115 60792 WFARBLT869.0 1     953
              Open 60107 W FARIB7 115 60792 WFARBLT869.0 1                           0.08073  0.00020    28.4    27.5
773  -4695.6 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -21.5   -17.3 -0.00089         -0.00089   -19.8   -15.6
            C:63031 BUNKER 3 345 63046 BUNKER 4 230 1    2035
              Open 63031 BUNKER 3 345 63046 BUNKER 4 230 1                          -0.01372 -0.00037   122.3   124.1
774  -4681.1 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -60.1   -48.0 -0.00259         -0.00216   -53.9   -43.8
            C:60797 KENYNTP869.0 62389 KENYON 869.0 1    3145
              Open 60797 KENYNTP869.0 62389 KENYON 869.0 1                           0.27260 -0.00161   -23.0   -15.5
776  -4632.1 L:60107 W FARIB7 115 62865 AIRTECH7 115 1        -155.2  -139.0 -0.00350          0.00497   -85.8  -108.9
            C:60265 LOON TP7 115 60830 EASTWD18 115 P1   1275
              Open 60265 LOON TP7 115 60830 EASTWD18 115 P1                          0.33153 -0.02555  -209.2   -90.9
777  -4608.8 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          17.4    13.7  0.00079          0.00089    11.3     7.2
            C:62134 ELKR14S869.0 62967 ELKRWS2869.0 1    1776
              Open 62134 ELKR14S869.0 62967 ELKRWS2869.0 1                           0.13539 -0.00074    44.9    48.3
778  -4586.0 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -21.8   -17.3 -0.00097         -0.00089   -19.8   -15.7
            C:60652 CROWRV 869.0 62931 DELANO 869.0 1    1379
              Open 60652 CROWRV 869.0 62931 DELANO 869.0 1                          -0.07959  0.00099    24.7    20.2
779  -4564.9 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -17.8   -13.7 -0.00089         -0.00089   -14.3   -10.3
            C:60002 SHERC33G26.0 60160 SHERCO 3 345 1    2892
              Open 60002 SHERC33G26.0 60160 SHERCO 3 345 1                           0.00393  0.00000  -875.5  -875.5
780  -4560.6 L:63219 GRANTCO7 115 66555 MORRIS 7 115 1        -123.3   -96.0 -0.00599         -0.00370   -67.7   -50.8
            C:63329 WAHPETN4 230 63331 FERGSFL4 230 1    2192
              Open 63329 WAHPETN4 230 63331 FERGSFL4 230 1                          -0.21022  0.01091   264.8   215.0
781  -4539.6 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1812.1  1732.0  0.01764          0.01764  1791.3  1711.3
            C:60006 KING 31G20.0 60186 AS KING3 345 1    2896
              Open 60006 KING 31G20.0 60186 AS KING3 345 1                          -0.04497  0.00000  -461.4  -461.4
782  -4524.1 L:34200 CNTRVIL869.0 34573 N CENT8 69.0 1         -54.1   -48.0 -0.00136         -0.00000   -49.5   -49.5
            C:34175 CORYDON869.0 34634 HRVRDTP869.0 1     276
              Open 34175 CORYDON869.0 34634 HRVRDTP869.0 1                          -0.39975  0.00339    11.6    -3.8
783  -4520.7 L:60264 LOON LK7 115 61976 LOON LK869.0 1         116.2    75.0  0.00912          0.00538    85.3    61.0
            C:60107 W FARIB7 115 60265 LOON TP7 115 C1    952
              Open 60107 W FARIB7 115 60265 LOON TP7 115 C1                         -0.18527 -0.02017  -166.9   -75.7
784  -4518.1 L:60310 MONROCO5 161 60949 MONROCO869.0 1          83.7    70.0  0.00302          0.00246    66.3    55.2
            C:60953 WSTSALE869.0 60973 LAX    869.0 1    1559
              Open 60953 WSTSALE869.0 60973 LAX    869.0 1                          -0.51791 -0.00109   -33.5   -28.6
785  -4512.4 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          19.7    13.7  0.00132          0.00089    11.3     7.2
            C:60705 LUXBGTP869.0 62846 FRHV TP869.0 1    3076
              Open 60705 LUXBGTP869.0 62846 FRHV TP869.0 1                          -0.32182 -0.00132   -26.0   -20.0
786  -4496.5 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1817.7  1732.0  0.01905          0.01764  1791.3  1712.0
            C:795                                        3765
              Open 60150 MNVLTAP4 230 66550 GRANITF4 230 1                          -0.08441 -0.01397  -311.5  -248.7
              Open 60148 MINVALY7 115 60149 MINVALT4 230 C1                          0.07864  0.00290    18.2     5.2
              Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                          -0.02668  0.00000     0.0     0.0
              Open 60149 MINVALT4 230 60150 MNVLTAP4 230 1      NA
              Open 60742 PANTHER869.0 63054 PANTHER4 230 1                           0.03468  0.00014   -40.1   -40.7
787  -4490.5 L:60264 LOON LK7 115 61976 LOON LK869.0 1         118.0    75.0  0.00959          0.00538    85.3    61.1
            C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
              Open 60108 WILMART3 345 60192 BLUE LK3 345 1                           0.03713  0.11317   881.7   373.5
788  -4486.3 L:34200 CNTRVIL869.0 34573 N CENT8 69.0 1         -54.1   -48.0 -0.00136         -0.00000   -49.5   -49.5
            C:34633 PROMISE869.0 34634 HRVRDTP869.0 1     733
              Open 34633 PROMISE869.0 34634 HRVRDTP869.0 1                           0.39975 -0.00339   -11.5     3.8
789  -4484.9 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1810.4  1732.0  0.01747          0.01764  1791.3  1712.2
            C:66755 PRAIRIE4 230 66758 WINGER 4 230 1    2577
              Open 66755 PRAIRIE4 230 66758 WINGER 4 230 1                           0.15726 -0.00107   121.0   125.8
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790  -4477.0 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -74.9   -48.0 -0.00600         -0.00216   -44.9   -35.3
             C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
               Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          -0.03397  0.11317   881.7   375.1
791  -4471.6 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1815.6  1732.0  0.01869          0.01764  1791.3  1712.5
             C:CNC-KOL/TER3                              3633
               Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                           0.02523  0.02476   409.3   298.6
               Open 60202 COON CK3 345 60251 TERMINL3 345 1                           0.02221  0.01934   627.4   541.0
792  -4465.3 L:34200 CNTRVIL869.0 34573 N CENT8 69.0 1         -54.1   -48.0 -0.00136         -0.00000   -49.5   -49.5
             C:34624 NUMATAP869.0 34633 PROMISE869.0 1     724
               Open 34624 NUMATAP869.0 34633 PROMISE869.0 1                           0.39975 -0.00339   -11.4     3.8
793  -4459.0 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1810.7  1732.0  0.01764          0.01764  1791.3  1712.7
             C:60000 SHERC31G24.0 60160 SHERCO 3 345 1    2890
               Open 60000 SHERC31G24.0 60160 SHERCO 3 345 1                          -0.03331  0.00000  -580.3  -580.3
794  -4445.6 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -23.1   -19.3 -0.00085         -0.00094   -19.4   -15.2
             C:34300 MONTGMY869.0 34301 NEWPRAG869.0 1     475
               Open 34300 MONTGMY869.0 34301 NEWPRAG869.0 1                          -0.27659 -0.00032    13.3    14.7
795  -4443.3 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1816.0  1732.0  0.01890          0.01764  1791.3  1712.9
             C:60150 MNVLTAP4 230 63054 PANTHER4 230 1    2952
               Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                           0.07478  0.01687   329.7   254.8
796  -4441.0 L:34200 CNTRVIL869.0 34573 N CENT8 69.0 1         -54.0   -48.0 -0.00136         -0.00000   -49.5   -49.5
             C:34200 CNTRVIL869.0 34624 NUMATAP869.0 1     326
               Open 34200 CNTRVIL869.0 34624 NUMATAP869.0 1                           0.39975 -0.00339   -11.3     3.8
797  -4437.3 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1810.3  1732.0  0.01764          0.01764  1791.3  1713.1
             C:60001 SHERC32G24.0 60160 SHERCO 3 345 1    2891
               Open 60001 SHERC32G24.0 60160 SHERCO 3 345 1                          -0.03331  0.00000  -568.8  -568.8
798  -4419.1 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1810.0  1732.0  0.01764          0.01764  1791.3  1713.4
             C:60005 MNTCE31G22.0 60151 MNTCELO3 345 1    2895
               Open 60005 MNTCE31G22.0 60151 MNTCELO3 345 1                          -0.03259  0.00000  -571.4  -571.4
799  -4417.7 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -144.7  -127.9 -0.00381         -0.00474  -109.8   -88.8
             C:60287 NOBLES 7 115 60369 FENTON 7 115 C1   1292
               Open 60287 NOBLES 7 115 60369 FENTON 7 115 C1                          0.12650  0.00735  -276.6  -309.0
800  -4415.5 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1813.2  1732.0  0.01838          0.01764  1791.3  1713.4
             C:60133 SHEYNNE4 230 63336 AUDUBON4 230 1    1013
               Open 60133 SHEYNNE4 230 63336 AUDUBON4 230 1                           0.08613  0.00860   253.4   215.5
801  -4409.0 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1833.8  1732.0  0.02309          0.01764  1791.3  1713.6
             C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
               Open 60108 WILMART3 345 60192 BLUE LK3 345 1                           0.04819  0.11317   881.7   382.8
802  -4401.4 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1813.9  1732.0  0.01860          0.01764  1791.3  1713.7
             C:63053 HUBBARD4 230 63336 AUDUBON4 230 1    3405
               Open 63053 HUBBARD4 230 63336 AUDUBON4 230 1                          -0.11254 -0.00856  -200.4  -162.7
803  -4392.6 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -23.1   -17.3 -0.00132         -0.00089   -19.8   -15.9
             C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
               Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          -0.00372  0.11317   881.7   384.6
805  -4376.5 L:60264 LOON LK7 115 61976 LOON LK869.0 1         108.7    75.0  0.00769          0.00538    85.3    61.7
             C:PRI-BYN/RRK3                              3646
               Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                           0.03037  0.07639   767.2   432.9
               Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                           0.00049 -0.01725   152.8   228.3
806  -4370.7 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -21.2   -17.3 -0.00088         -0.00089   -19.8   -15.9
             C:62134 ELKR14S869.0 63043 ELK RIV4 230 2    1780
               Open 62134 ELKR14S869.0 63043 ELK RIV4 230 2                           0.02479  0.00051   -54.7   -57.0
807  -4363.1 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          69.0    47.0  0.00504          0.00439    62.9    43.8
             C:60944 VIROQUA869.0 68800 T VIO   69.0 1    3224
               Open 60944 VIROQUA869.0 68800 T VIO   69.0 1                           0.19932  0.00328    30.5    16.2
808  -4355.3 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1804.2  1732.0  0.01657          0.01764  1791.3  1714.5
             C:34006 LAKEFLD3 345 60286 NOBLES 3 345 C1     20
               Open 34006 LAKEFLD3 345 60286 NOBLES 3 345 C1                         -0.04232  0.02531  -303.2  -413.5
809  -4353.2 L:60264 LOON LK7 115 61976 LOON LK869.0 1         108.5    75.0  0.00769          0.00538    85.3    61.9
             C:60105 PR ISLD3 345 61950 BYRON  3 345 1     951
               Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                           0.03021  0.07639   767.2   434.7
810  -4349.4 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1814.8  1732.0  0.01904          0.01764  1791.3  1714.6
             C:66506 FTTHOMP3 345 66571 GR ISLD3 345 1    3552
               Open 66506 FTTHOMP3 345 66571 GR ISLD3 345 1                           0.05525  0.02536   425.1   314.8
811  -4348.4 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1813.8  1732.0  0.01880          0.01764  1791.3  1714.6
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            C:022       3                                3704
              Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          0.02715  0.02476   409.3   301.7
              Open 60202 COON CK3 345 60251 TERMINL3 345 1                          0.02465  0.01934   627.4   543.3
              Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                         -0.00529  0.00036   207.1   205.5
              Open 60251 TERMINL3 345 61491 TERMID2Y 345 1                         -0.00899 -0.00168   339.2   346.5
              Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                         -0.04126  0.00000     0.2     0.2
              Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
812  -4323.5 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          58.7    47.0  0.00272          0.00439    62.9    43.9
            C:050    1                                3715
              Open 60186 AS KING3 345 60304 EAU CL 3 345 1                         -0.00710  0.06362   901.3   626.2
              Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.01120 -0.06704  -692.1  -402.3
              Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          0.00000 -0.00175    77.5    85.0
              Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                          0.59225 -0.00300     0.0    13.0
              Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                          0.12924 -0.00148   -42.6   -36.2
813  -4318.3 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -59.2   -48.0 -0.00259         -0.00216   -53.9   -44.6
            C:60796 KENYON 869.0 60797 KENYNTP869.0 1    1466
              Open 60796 KENYON 869.0 60797 KENYNTP869.0 1                          0.27260 -0.00161   -19.5   -12.6
814  -4312.7 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1808.1  1732.0  0.01764          0.01764  1791.3  1715.3
            C:60003 PR IS31G20.0 60105 PR ISLD3 345 1    2893
              Open 60003 PR IS31G20.0 60105 PR ISLD3 345 1                         -0.03201  0.00000  -523.2  -523.2
815  -4310.9 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1808.0  1732.0  0.01764          0.01764  1791.3  1715.3
            C:60004 PR IS32G20.0 60105 PR ISLD3 345 1    2894
              Open 60004 PR IS32G20.0 60105 PR ISLD3 345 1                         -0.03201  0.00000  -522.2  -522.2
816  -4295.5 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1804.3  1732.0  0.01684          0.01764  1791.3  1715.6
            C:66529 WATERTN3 345 67160 GROTON 3 345 1    2500
              Open 66529 WATERTN3 345 67160 GROTON 3 345 1                         -0.06687  0.01201  -194.3  -245.9
818  -4293.1 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -57.3   -48.0 -0.00216         -0.00216   -53.9   -44.6
            C:60003 PR IS31G20.0 60105 PR ISLD3 345 1    2893
              Open 60003 PR IS31G20.0 60105 PR ISLD3 345 1                          0.00646  0.00000  -523.2  -523.2
819  -4290.1 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -57.2   -48.0 -0.00216         -0.00216   -53.9   -44.6
            C:60004 PR IS32G20.0 60105 PR ISLD3 345 1    2894
              Open 60004 PR IS32G20.0 60105 PR ISLD3 345 1                          0.00646  0.00000  -522.2  -522.2
820  -4285.4 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -21.0   -17.3 -0.00087         -0.00089   -19.8   -16.0
            C:60270 MPLEGV13 345 63030 DICKNSN3 345 1    1277
              Open 60270 MPLEGV13 345 63030 DICKNSN3 345 1                          0.00270  0.00909  -455.8  -494.7
822  -4277.2 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -21.0   -17.3 -0.00087         -0.00089   -19.8   -16.0
            C:60233 PARKERS3 345 60270 MPLEGV13 345 1    1220
              Open 60233 PARKERS3 345 60270 MPLEGV13 345 1                          0.00270  0.00909  -453.1  -492.0
825  -4261.1 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -21.3   -17.3 -0.00093         -0.00089   -19.8   -16.0
            C:60211 GLESNLK7 115 62924 MEDINA 7 115 1    1186
              Open 60211 GLESNLK7 115 62924 MEDINA 7 115 1                          0.02696 -0.00139   -54.6   -48.7
826  -4258.4 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          21.9    19.3  0.00061          0.00055    23.3    21.0
            C:63314 BIGSTON4 230 66503 BLAIR  4 230 1    2188
              Open 63314 BIGSTON4 230 66503 BLAIR  4 230 1                         -0.00663 -0.00882   214.3   251.9
827  -4257.9 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          21.7    19.3  0.00056          0.00055    23.3    21.0
            C:60746 GLENWD 869.0 62756 LEVEN  869.0 1    3112
              Open 60746 GLENWD 869.0 62756 LEVEN  869.0 1                          0.12264  0.00007   -13.3   -13.6
828  -4257.6 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1805.3  1732.0  0.01722          0.01764  1791.3  1716.2
            C:66426 BISMARK4 230 67338 GLENHAM4 230 1    2354
              Open 66426 BISMARK4 230 67338 GLENHAM4 230 1                          0.09129 -0.00461   153.2   172.8
829  -4257.4 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          21.6    19.3  0.00055          0.00055    23.3    21.0
            C:60732 WST CLD869.0 62841 WESTWD 869.0 1    3098
              Open 60732 WST CLD869.0 62841 WESTWD 869.0 1                         -0.18857  0.00000     8.9     8.9
830  -4248.5 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -18.8   -13.7 -0.00119         -0.00089   -14.3   -10.5
            C:60189 BLK DOG4 230 60190 BLK DOG7 115 C1   1120
              Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                        -0.02300  0.01298   192.3   137.1
831  -4248.5 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -18.8   -13.7 -0.00119         -0.00089   -14.3   -10.5
            C:60189 BLK DOG4 230 62980 MCLEOD 4 230 1    1121
              Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                          0.02300 -0.01298  -192.3  -137.1
832  -4248.5 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -18.8   -13.7 -0.00119         -0.00089   -14.3   -10.5
            C:810   C1                                   3767
              Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                          0.02300 -0.01298  -192.3  -137.1
              Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                         0.00056  0.00000    -0.0    -0.0
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833  -4248.4 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          15.9    13.7  0.00051          0.00089    11.3     7.5
             C:62938 OTSEGO 869.0 63020 ELK RIV869.0 1    2011
               Open 62938 OTSEGO 869.0 63020 ELK RIV869.0 1                          -0.31429  0.00123   -14.6   -19.8
834  -4233.4 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -57.1   -48.0 -0.00216         -0.00216   -53.9   -44.8
             C:60000 SHERC31G24.0 60160 SHERCO 3 345 1    2890
               Open 60000 SHERC31G24.0 60160 SHERCO 3 345 1                           0.00560  0.00000  -580.3  -580.3
835  -4230.9 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1812.0  1732.0  0.01891          0.01764  1791.3  1716.7
             C:62980 MCLEOD 4 230 63054 PANTHER4 230 1    3394
               Open 62980 MCLEOD 4 230 63054 PANTHER4 230 1                          -0.07485 -0.01700  -276.4  -204.5
836  -4228.5 L:60107 W FARIB7 115 62865 AIRTECH7 115 1        -141.8  -139.0 -0.00066          0.00497   -85.8  -106.9
             C:PRI-BYN/RRK3                               3646
               Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                          -0.07334  0.07639   767.2   444.2
               Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                           0.00197 -0.01725   152.8   225.7
837  -4226.5 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1809.8  1732.0  0.01840          0.01764  1791.3  1716.8
             C:63329 WAHPETN4 230 63331 FERGSFL4 230 1    2192
               Open 63329 WAHPETN4 230 63331 FERGSFL4 230 1                           0.06963  0.01091   264.8   218.7
838  -4217.7 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -19.3   -13.7 -0.00132         -0.00089   -14.3   -10.6
             C:60704 KIMBALL869.0 60761 SOUTHVN869.0 1    1406
               Open 60704 KIMBALL869.0 60761 SOUTHVN869.0 1                          -0.32182  0.00132    15.3     9.7
839  -4208.0 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          66.5    47.0  0.00464          0.00439    62.9    44.4
             C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
               Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.00403  0.06362   901.3   633.6
840  -4203.4 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -57.1   -48.0 -0.00216         -0.00216   -53.9   -44.8
             C:60001 SHERC32G24.0 60160 SHERCO 3 345 1    2891
               Open 60001 SHERC32G24.0 60160 SHERCO 3 345 1                           0.00560  0.00000  -568.8  -568.8
841  -4194.6 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1804.4  1732.0  0.01726          0.01764  1791.3  1717.3
             C:63255 DONALDS7 115 66705 DRAYTON7 115 1    2146
               Open 63255 DONALDS7 115 66705 DRAYTON7 115 1                          -0.19137  0.00196   -68.4   -76.6
842  -4193.6 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -57.0   -48.0 -0.00216         -0.00216   -53.9   -44.8
             C:60005 MNTCE31G22.0 60151 MNTCELO3 345 1    2895
               Open 60005 MNTCE31G22.0 60151 MNTCELO3 345 1                           0.00554  0.00000  -571.4  -571.4
843  -4184.8 L:60264 LOON LK7 115 61976 LOON LK869.0 1          95.6    75.0  0.00492          0.00538    85.3    62.8
             C:61948 BYRON  5 161 61950 BYRON  3 345 1    1695
               Open 61948 BYRON  5 161 61950 BYRON  3 345 1                          -0.05552  0.00825  -185.7  -220.2
844  -4180.6 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -24.4   -19.3 -0.00123         -0.00094   -19.4   -15.5
             C:60931 CARVRCO869.0 62676 AUGUSTA869.0 1    3214
               Open 60931 CARVRCO869.0 62676 AUGUSTA869.0 1                          -0.20114  0.00142    25.0    19.0
845  -4170.6 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -62.1   -48.0 -0.00337         -0.00216   -48.8   -39.8
             C:60107 W FARIB7 115 61952 S FARIB5 161 1     955
               Open 60107 W FARIB7 115 61952 S FARIB5 161 1                          -0.08328  0.01457   159.6    98.9
846  -4145.0 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -24.9   -19.3 -0.00136         -0.00094   -19.4   -15.5
             C:SCO-SSK/CAR7                               3675
               Open 60244 SCOTTCO7 115 62975 SHAKOPE7 115 1                           0.03684  0.00055    25.6    23.3
               Open 60243 SCOTTAP7 115 60244 SCOTTCO7 115 1                          -0.03676  0.00158    24.8    18.2
               Open 60194 CARVRCO7 115 60243 SCOTTAP7 115 1                          -0.07394  0.00514    75.2    54.0
               Open 60243 SCOTTAP7 115 62666 GLNDALE7 115 1                           0.00226  0.00000     1.5     1.5
847  -4139.2 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1809.6  1732.0  0.01876          0.01764  1791.3  1718.3
             C:61611 WINGRIV4 230 63052 INMAN  4 230 1    3357
               Open 61611 WINGRIV4 230 63052 INMAN  4 230 1                          -0.09336 -0.01196  -196.1  -146.6
848  -4137.4 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1803.2  1732.0  0.01722          0.01764  1791.3  1718.3
             C:66527 WHITLOK4 230 67338 GLENHAM4 230 1    2497
               Open 66527 WHITLOK4 230 67338 GLENHAM4 230 1                          -0.09129  0.00461  -130.5  -149.6
849  -4135.2 L:60310 MONROCO5 161 60949 MONROCO869.0 1          87.4    70.0  0.00421          0.00246    66.3    56.1
             C:885                                        3780
               Open 69507 SENECA 5 161 69511 BELLCTR5 161 1                           0.05418  0.00408   129.4   112.5
               Open 69507 SENECA 5 161 69523 GENOA  5 161 1                          -0.04944 -0.03083  -284.7  -157.2
850  -4133.3 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -58.7   -48.0 -0.00259         -0.00216   -53.9   -45.0
             C:60796 KENYON 869.0 60819 CHERYTP869.0 1    1467
               Open 60796 KENYON 869.0 60819 CHERYTP869.0 1                          -0.27260  0.00161    17.8    11.1
851  -4133.0 L:60944 VIROQUA869.0 68800 T VIO   69.0 1          73.8    47.0  0.00648          0.00328    30.5    17.0
             C:885                                        3780
               Open 69507 SENECA 5 161 69511 BELLCTR5 161 1                           0.14916  0.00408   129.4   112.5
               Open 69507 SENECA 5 161 69523 GENOA  5 161 1                          -0.08418 -0.03083  -284.7  -157.3
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852  -4131.2 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -19.1   -13.7 -0.00132         -0.00089   -14.3   -10.7
             C:60712 ANNDALE869.0 60761 SOUTHVN869.0 1    1410
               Open 60712 ANNDALE869.0 60761 SOUTHVN869.0 1                          0.32182 -0.00132   -14.9    -9.5
853  -4130.9 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -17.3   -13.7 -0.00087         -0.00089   -14.3   -10.7
             C:62134 ELKR14S869.0 63043 ELK RIV4 230 1    1779
               Open 62134 ELKR14S869.0 63043 ELK RIV4 230 1                          0.03174  0.00086   -92.5   -96.1
854  -4117.4 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1802.9  1732.0  0.01722          0.01764  1791.3  1718.7
             C:66521 SULLYBT4 230 66527 WHITLOK4 230 1    2491
               Open 66521 SULLYBT4 230 66527 WHITLOK4 230 1                         -0.09129  0.00461  -126.7  -145.7
855  -4108.0 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -61.8   -48.0 -0.00337         -0.00216   -48.8   -39.9
             C:61952 S FARIB5 161 61964 OWATNNA5 161 1    1697
               Open 61952 S FARIB5 161 61964 OWATNNA5 161 1                         -0.08328  0.01457   157.1    97.2
856  -4106.6 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -57.4   -48.0 -0.00229         -0.00216   -53.9   -45.0
             C:61906 MAPLE LF 161 61948 BYRON  5 161 1    3372
               Open 61906 MAPLE LF 161 61948 BYRON  5 161 1                          0.01144 -0.01203  -309.4  -260.0
858  -4096.6 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1807.6  1732.0  0.01844          0.01764  1791.3  1719.1
             C:63051 HENNING4 230 63331 FERGSFL4 230 1    2053
               Open 63051 HENNING4 230 63331 FERGSFL4 230 1                         -0.07383 -0.01089  -219.8  -175.2
859  -4093.9 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -56.1   -48.0 -0.00199         -0.00216   -53.9   -45.1
             C:60103 CANNFLS5 161 63071 SPRNGCK5 161 1    2934
               Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                          0.05494  0.00307   -41.1   -53.7
860  -4091.8 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1802.5  1732.0  0.01722          0.01764  1791.3  1719.2
             C:66519 OAHE   4 230 66521 SULLYBT4 230 1    2490
               Open 66519 OAHE   4 230 66521 SULLYBT4 230 1                         -0.09129  0.00461  -121.9  -140.8
861  -4090.4 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1805.7  1732.0  0.01801          0.01764  1791.3  1719.2
             C:63245 WILTON 7 115 63246 BEMIDJI7 115 1    2131
               Open 63245 WILTON 7 115 63246 BEMIDJI7 115 1                          0.16352  0.00225    87.6    78.4
862  -4081.9 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1803.0  1732.0  0.01739          0.01764  1791.3  1719.3
             C:66435 FARGO  4 230 66553 MOORHED4 230 1    2371
               Open 66435 FARGO  4 230 66553 MOORHED4 230 1                          0.10139 -0.00250   114.8   125.0
863  -4081.5 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -56.1   -48.0 -0.00199         -0.00216   -53.9   -45.1
             C:60103 CANNFLS5 161 60104 CANNFLS7 115 1     945
               Open 60103 CANNFLS5 161 60104 CANNFLS7 115 1                         -0.05494 -0.00307    40.7    53.2
864  -4078.6 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -56.1   -48.0 -0.00199         -0.00216   -53.9   -45.1
             C:740    2                                   3755
               Open 60103 CANNFLS5 161 60104 CANNFLS7 115 1                         -0.05494 -0.00307    40.7    53.2
               Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                          0.01291  0.00000     0.4     0.4
865  -4073.4 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          64.9    47.0  0.00439          0.00439    62.9    45.0
             C:60949 MONROCO869.0 60950 SPARTA 869.0 1    1554
               Open 60949 MONROCO869.0 60950 SPARTA 869.0 1                          0.21016  0.00000     9.3     9.3
866  -4058.1 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1806.8  1732.0  0.01844          0.01764  1791.3  1719.7
             C:63051 HENNING4 230 63052 INMAN  4 230 1    2052
               Open 63051 HENNING4 230 63052 INMAN  4 230 1                          0.07383  0.01089   210.2   166.0
868  -4038.5 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -20.9   -17.3 -0.00090         -0.00089   -19.8   -16.2
             C:61910 MILACA 4 230 62301 MILACA 869.0 1    1682
               Open 61910 MILACA 4 230 62301 MILACA 869.0 1                         -0.01742  0.00031    65.3    64.0
869  -4038.5 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -20.9   -17.3 -0.00090         -0.00089   -19.8   -16.2
             C:61910 MILACA 4 230 63045 BENTON 4 230 1    3373
               Open 61910 MILACA 4 230 63045 BENTON 4 230 1                          0.01742 -0.00031   -65.3   -64.0
870  -4032.4 L:61721 ETCO   7 115 61722 FORBES 7 115 1        -109.4   -98.0 -0.00283         -0.00176   -94.4   -87.3
             C:ASK-RRK/ECL3                               3642
               Open 60186 AS KING3 345 60236 REDROCK3 345 1                         -0.00437 -0.01969   140.3   219.7
               Open 60186 AS KING3 345 60304 EAU CL 3 345 1                         -0.01028  0.06362   901.3   644.8
               Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          0.00742 -0.06704  -692.1  -421.8
871  -4030.0 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -56.7   -48.0 -0.00216         -0.00216   -53.9   -45.2
             C:60006 KING 31G20.0 60186 AS KING3 345 1    2896
               Open 60006 KING 31G20.0 60186 AS KING3 345 1                          0.00609  0.00000  -461.4  -461.4
872  -4019.0 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1809.1  1732.0  0.01918          0.01764  1791.3  1720.4
             C:022       1                                3703
               Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          0.03333  0.02476   409.3   309.8
               Open 60221 KOLMNLK3 345 60251 TERMINL3 345 1                         -0.02199 -0.02267    47.8   138.9
               Open 60202 COON CK3 345 60251 TERMINL3 345 1                          0.01134  0.01934   627.4   549.7
               Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                         -0.00937  0.00036   207.1   205.6
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              Open 60251 TERMINL3 345 61492 TERMID1Y 345 1     NA
              Open 60252 TERMINL7 115 61492 TERMID1Y 345 1                          -0.00000  0.00166  -335.8  -342.5
              Open 61187 TERTER1934.5 61492 TERMID1Y 345 1     NA
              Open 60251 TERMINL3 345 61491 TERMID2Y 345 1     NA
              Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                          -0.03464  0.00000     0.3     0.3
              Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
873  -4014.3 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -21.0   -17.3 -0.00091         -0.00089   -19.8   -16.2
            C:60206 CROWRVR7 115 62924 MEDINA 7 115 1    1169
              Open 60206 CROWRVR7 115 62924 MEDINA 7 115 1                          -0.01687  0.00112    69.3    64.8
874  -4008.6 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -21.1   -17.3 -0.00095         -0.00089   -19.8   -16.2
            C:63329 WAHPETN4 230 63331 FERGSFL4 230 1    2192
              Open 63329 WAHPETN4 230 63331 FERGSFL4 230 1                          -0.00492  0.01091   264.8   221.0
875  -3993.7 L:60107 W FARIB7 115 61952 S FARIB5 161 1         277.9   173.0  0.02627          0.01457   159.6   101.4
            C:PRI-BYN/RRK3                               3646
              Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                           0.15365  0.07639   767.2   462.1
              Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                           0.00248 -0.01725   152.8   221.7
876  -3989.8 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -17.9   -13.7 -0.00105         -0.00089   -14.3   -10.8
            C:60202 COON CK3 345 63030 DICKNSN3 345 1    1157
              Open 60202 COON CK3 345 63030 DICKNSN3 345 1                           0.00903 -0.01742  -393.2  -323.7
877  -3972.5 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1802.6  1732.0  0.01777          0.01764  1791.3  1721.3
            C:63369 JAMESTN3 345 66791 CENTER 3 345 1    2199
              Open 63369 JAMESTN3 345 66791 CENTER 3 345 1                          -0.02662 -0.00471  -422.3  -403.6
878  -3970.5 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1802.0  1732.0  0.01763          0.01764  1791.3  1721.3
            C:66470 BISON  4 230 67347 HETINGR4 230 1    2402
              Open 66470 BISON  4 230 67347 HETINGR4 230 1                          -0.08472  0.00010  -126.0  -126.4
879  -3970.1 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1801.4  1732.0  0.01748          0.01764  1791.3  1721.3
            C:66751 CENTER 4 230 67342 HESKETT4 230 1    2572
              Open 66751 CENTER 4 230 67342 HESKETT4 230 1                           0.04054 -0.00399   248.2   264.0
880  -3966.5 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1801.6  1732.0  0.01756          0.01764  1791.3  1721.4
            C:63329 WAHPETN4 230 66754 MAPLE R4 230 1    2193
              Open 63329 WAHPETN4 230 66754 MAPLE R4 230 1                          -0.08653  0.00095  -119.2  -123.0
881  -3961.0 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          18.9    13.7  0.00132          0.00089    11.3     7.7
            C:60705 LUXBGTP869.0 62620 WATKINS869.0 1    3074
              Open 60705 LUXBGTP869.0 62620 WATKINS869.0 1                           0.32182  0.00132    23.7    18.5
882  -3958.5 L:60107 W FARIB7 115 61952 S FARIB5 161 1         276.9   173.0  0.02625          0.01457   159.6   102.0
            C:60105 PR ISLD3 345 61950 BYRON  3 345 1     951
              Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                           0.15284  0.07639   767.2   464.8
883  -3955.7 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1801.7  1732.0  0.01763          0.01764  1791.3  1721.6
            C:66470 BISON  4 230 66497 MAURINE4 230 1    2401
              Open 66470 BISON  4 230 66497 MAURINE4 230 1                           0.08472 -0.00010   122.9   123.3
884  -3953.3 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -22.5   -17.3 -0.00132         -0.00089   -19.8   -16.3
            C:60712 ANNDALE869.0 60765 MAPLELK869.0 1    1411
              Open 60712 ANNDALE869.0 60765 MAPLELK869.0 1                          -0.32182  0.00132     8.4     3.2
885  -3951.7 L:66298 GRANITF869.0 66551 GRANITF7 115 1         -49.0   -42.0 -0.00176         -0.00071   -26.9   -24.1
            C:63050 WILLMAR4 230 66550 GRANITF4 230 1    2051
              Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                           0.10183 -0.01028  -216.5  -175.9
886  -3938.6 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -24.2   -19.3 -0.00125         -0.00094   -19.4   -15.7
            C:715       2                                3746
              Open 60243 SCOTTAP7 115 62666 GLNDALE7 115 1                          -0.06077  0.00356    48.9    34.9
              Open 60242 SAVAGE 7 115 62668 EGLCKTP7 115 1     NA
              Open 62666 GLNDALE7 115 62672 GLNDALE869.0 1                          -0.00007  0.00008    25.1    24.7
              Open 60243 SCOTTAP7 115 60244 SCOTTCO7 115 1                          -0.09032  0.00158    24.8    18.6
              Open 60194 CARVRCO7 115 60243 SCOTTAP7 115 1                          -0.05880  0.00000     1.5     1.5
              Open 60194 CARVRCO7 115 60931 CARVRCO869.0 1                           0.05358 -0.00021    19.7    20.6
              Open 60190 BLK DOG7 115 60242 SAVAGE 7 115 1                          -0.02972 -0.00055    29.6    31.7
              Open 62668 EGLCKTP7 115 62975 SHAKOPE7 115 1     NA
              Open 60244 SCOTTCO7 115 62975 SHAKOPE7 115 1                           0.03152  0.00000    55.2    55.2
              Open 60244 SCOTTCO7 115 60890 SCOTTCO869.0 2                          -0.05983 -0.00079    23.8    26.9
887  -3931.1 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1802.8  1732.0  0.01801          0.01764  1791.3  1722.0
            C:63246 BEMIDJI7 115 66710 NARY   7 115 1    2134
              Open 63246 BEMIDJI7 115 66710 NARY   7 115 1                           0.16352  0.00225    70.1    61.2
888  -3921.0 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1801.7  1732.0  0.01777          0.01764  1791.3  1722.2
            C:63358 BUFFALO3 345 63369 JAMESTN3 345 1    2195
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                Open 63358 BUFFALO3 345 63369 JAMESTN3 345 1                          -0.02662 -0.00471  -387.9  -369.5
889  -3915.3 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -17.4   -13.7 -0.00095         -0.00089   -14.3   -10.8
             C:60152 MNTCELO4 230 63043 ELK RIV4 230 1    1060
                Open 60152 MNTCELO4 230 63043 ELK RIV4 230 1                          -0.01556  0.00329   196.5   183.6
890  -3911.7 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1800.0  1732.0  0.01739          0.01764  1791.3  1722.3
             C:66553 MOORHED4 230 66554 MORRIS 4 230 1    2507
                Open 66553 MOORHED4 230 66554 MORRIS 4 230 1                           0.10139 -0.00250    85.6    95.4
891  -3910.9 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1834.8  1732.0  0.02629          0.01764  1791.3  1722.3
             C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                          -0.06189 -0.13973  -702.5  -156.1
892  -3907.7 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1801.4  1732.0  0.01777          0.01764  1791.3  1722.4
             C:63358 BUFFALO3 345 66792 MAPLE R3 345 1    2196
                Open 63358 BUFFALO3 345 66792 MAPLE R3 345 1                           0.02662  0.00471   379.1   360.7
893  -3906.3 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1799.6  1732.0  0.01730          0.01764  1791.3  1722.4
             C:63314 BIGSTON4 230 66503 BLAIR  4 230 1    2188
                Open 63314 BIGSTON4 230 66503 BLAIR  4 230 1                           0.03849 -0.00882   214.3   248.8
894  -3899.5 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -58.1   -48.0 -0.00259         -0.00216   -53.9   -45.5
             C:60818 ZUMBRTA869.0 60819 CHERYTP869.0 1    1478
                Open 60818 ZUMBRTA869.0 60819 CHERYTP869.0 1                           0.27260 -0.00161   -15.6    -9.3
895  -3895.7 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1804.1  1732.0  0.01850          0.01764  1791.3  1722.6
             C:60189 BLK DOG4 230 60190 BLK DOG7 115 C1   1120
                Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                          0.06626  0.01298   192.3   141.7
896  -3895.7 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1804.1  1732.0  0.01850          0.01764  1791.3  1722.6
             C:60189 BLK DOG4 230 62980 MCLEOD 4 230 1    1121
                Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                          -0.06626 -0.01298  -192.3  -141.7
897  -3895.7 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1804.1  1732.0  0.01850          0.01764  1791.3  1722.6
             C:810   C1                                   3767
                Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                          -0.06626 -0.01298  -192.3  -141.7
                Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                         -0.03459  0.00000    -0.0    -0.0
898  -3879.6 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -22.6   -19.3 -0.00085         -0.00094   -19.4   -15.8
             C:009   5                                    3699
                Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                          -0.00265 -0.01568   349.1   409.9
                Open 60270 MPLEGV13 345 63030 DICKNSN3 345 1                           0.00502  0.00909  -455.8  -491.0
                Open 60233 PARKERS3 345 60270 MPLEGV13 345 1                           0.00154  0.00000     2.6     2.6
899  -3876.1 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          65.1    47.0  0.00467          0.00439    62.9    45.9
             C:39706 WIEN     115 60315 T-CRNRS7 115 1    2889
                Open 39706 WIEN     115 60315 T-CRNRS7 115 1                          -0.02941 -0.00956   -74.3   -37.3
900  -3873.3 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1799.5  1732.0  0.01742          0.01764  1791.3  1723.0
             C:60131 SPLTRTB3 345 66564 SIOUXCY3 345 1    1009
                Open 60131 SPLTRTB3 345 66564 SIOUXCY3 345 1                           0.01499 -0.01463   543.3   600.0
901  -3873.3 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1799.5  1732.0  0.01742          0.01764  1791.3  1723.0
             C:60126 SPLT RK3 345 60131 SPLTRTB3 345 1    1002
                Open 60126 SPLT RK3 345 60131 SPLTRTB3 345 1                           0.01499 -0.01463   543.3   600.0
902  -3871.3 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          64.0    47.0  0.00439          0.00439    62.9    45.9
             C:X0897-0898o1                               3647
                Open 60193 BLUE LK7 115 60215 HYLNDLK7 115 1                           0.00002 -0.00067   172.8   175.4
                Open 60215 HYLNDLK7 115 60261 DEANLAK7 115 1     NA
                Open 60244 SCOTTCO7 115 60261 DEANLAK7 115 1                           0.00944  0.00000   113.6   113.6
903  -3870.3 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1800.2  1732.0  0.01761          0.01764  1791.3  1723.1
             C:67342 HESKETT4 230 67394 WISHEK 4 230 1    2675
                Open 67342 HESKETT4 230 67394 WISHEK 4 230 1                           0.06035 -0.00046   146.4   148.2
904  -3868.9 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -22.6   -19.3 -0.00085         -0.00094   -19.4   -15.8
             C:PKL-DKN/ECK3                               3635
                Open 60233 PARKERS3 345 60270 MPLEGV13 345 1                           0.00502  0.00909  -453.1  -488.3
                Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                          -0.00265 -0.01568   349.1   409.7
905  -3859.4 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -52.7   -48.0 -0.00122         -0.00216   -48.8   -40.4
             C:60787 NOFIELD869.0 60801 CNFLSTR869.0 1    1457
                Open 60787 NOFIELD869.0 60801 CNFLSTR869.0 1                           0.50545  0.00185    -7.8   -15.0
906  -3857.1 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1800.0  1732.0  0.01764          0.01764  1791.3  1723.3
             C:60008 RIVRS78G22.0 60240 RIVRSID7 115 1    2898
                Open 60008 RIVRS78G22.0 60240 RIVRSID7 115 1                          -0.03822  0.00000  -227.9  -227.9
907  -3856.2 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1802.4  1732.0  0.01826          0.01764  1791.3  1723.3
             C:500                                        3718
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              Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                          -0.05967 -0.01028  -216.5  -176.9
              Open 62427 WILLMAR869.0 63050 WILLMAR4 230 1                           0.04830  0.00004   -38.4   -38.6
908  -3843.7 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1799.7  1732.0  0.01761          0.01764  1791.3  1723.5
            C:67326 ELLENDL4 230 67394 WISHEK 4 230 1    2663
              Open 67326 ELLENDL4 230 67394 WISHEK 4 230 1                          -0.06035  0.00046  -138.6  -140.4
909  -3825.5 L:60148 MINVALY7 115 60149 MINVALT4 230 C1        235.3   187.0  0.01263          0.00290    18.2     7.1
            C:60150 MNVLTAP4 230 66550 GRANITF4 230 1    1056
              Open 60150 MNVLTAP4 230 66550 GRANITF4 230 1                          -0.69701 -0.01397  -311.5  -258.1
911  -3813.4 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          64.5    47.0  0.00460          0.00439    62.9    46.2
            C:34022 LANSING5 161 69531 POSTVIL5 161 1    2731
              Open 34022 LANSING5 161 69531 POSTVIL5 161 1                           0.02244  0.00950    72.9    36.6
912  -3810.9 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1801.5  1732.0  0.01824          0.01764  1791.3  1724.1
            C:60356 PAYNES 4 230 63050 WILLMAR4 230 C1   1365
              Open 60356 PAYNES 4 230 63050 WILLMAR4 230 C1                         -0.05790 -0.01032  -175.7  -136.3
913  -3810.9 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1801.5  1732.0  0.01824          0.01764  1791.3  1724.1
            C:60156 PYNSVIL7 115 60356 PAYNES 4 230 C1   1069
              Open 60156 PYNSVIL7 115 60356 PAYNES 4 230 C1                         -0.05790 -0.01032  -175.7  -136.3
914  -3810.0 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1799.7  1732.0  0.01777          0.01764  1791.3  1724.1
            C:SHC-CNC/BUL3                               3630
              Open 60160 SHERCO 3 345 60202 COON CK3 345 1                           0.00890  0.00772   472.9   443.5
              Open 60160 SHERCO 3 345 63031 BUNKER 3 345 1                           0.00851  0.00766   491.3   462.1
915  -3807.9 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -384.7  -318.0 -0.01751         -0.01397  -311.5  -258.3
            C:500                                        3718
              Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                           0.34387 -0.01028  -216.5  -177.4
              Open 62427 WILLMAR869.0 63050 WILLMAR4 230 1                          -0.03442  0.00004   -38.4   -38.6
916  -3802.6 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -20.9   -17.3 -0.00095         -0.00089   -19.8   -16.4
            C:63051 HENNING4 230 63331 FERGSFL4 230 1    2053
              Open 63051 HENNING4 230 63331 FERGSFL4 230 1                           0.00507 -0.01089  -219.8  -178.4
917  -3793.2 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1800.3  1732.0  0.01801          0.01764  1791.3  1724.4
            C:66710 NARY   7 115 66716 LAPORTE7 115 1    2556
              Open 66710 NARY   7 115 66716 LAPORTE7 115 1                           0.16352  0.00225    54.9    46.4
918  -3789.4 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -22.9   -19.3 -0.00094         -0.00094   -19.4   -15.8
            C:34300 MONTGMY869.0 34310 MONTGG1913.8 1    2834
              Open 34300 MONTGMY869.0 34310 MONTGG1913.8 1                           0.16484  0.00000   -21.0   -21.0
919  -3786.8 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1798.8  1732.0  0.01764          0.01764  1791.3  1724.5
            C:PRA-NOR 7s                                 3688
              Open 60141 NORDIC 7 115 66712 PRAIRIE7 115 1                           0.00000  0.00000   -14.6   -14.6
              Open 60141 NORDIC 7 115 66712 PRAIRIE7 115 2                           0.25881  0.00000    28.9    28.9
920  -3781.6 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1799.3  1732.0  0.01779          0.01764  1791.3  1724.6
            C:CNC-SHC/BUL3                               3632
              Open 60160 SHERCO 3 345 60202 COON CK3 345 1                           0.00955  0.00772   472.9   443.7
              Open 60202 COON CK3 345 63031 BUNKER 3 345 1                          -0.00939 -0.00803  -364.6  -334.3
921  -3779.2 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -58.6   -48.0 -0.00279         -0.00216   -53.9   -45.7
            C:BLL-PRI/IVH3                               3638
              Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                           0.00653 -0.03964  -143.5     6.3
              Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.00786  0.04835   476.6   293.9
922  -3778.5 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1799.7  1732.0  0.01791          0.01764  1791.3  1724.7
            C:CNC-DKN/SHC3                               3634
              Open 60202 COON CK3 345 63030 DICKNSN3 345 1                          -0.01229 -0.01742  -393.2  -327.4
              Open 60202 COON CK3 345 60272 MPLEGV23 345 1                          -0.00740 -0.00782  -475.5  -446.0
923  -3772.0 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          21.4    19.3  0.00056          0.00055    23.3    21.2
            C:60747 VILLARD869.0 62756 LEVEN  869.0 1    3114
              Open 60747 VILLARD869.0 62756 LEVEN  869.0 1                          -0.12264 -0.00007    15.5    15.8
924  -3769.0 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -55.6   -48.0 -0.00201         -0.00216   -48.8   -40.6
            C:60105 PR ISLD3 345 60106 PR ISLD5 161 1     947
              Open 60105 PR ISLD3 345 60106 PR ISLD5 161 1                          -0.05730 -0.00257   118.9   128.6
925  -3769.0 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -55.6   -48.0 -0.00201         -0.00216   -48.8   -40.6
            C:60106 PR ISLD5 161 63071 SPRNGCK5 161 1    2936
              Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                          -0.05730 -0.00257   118.9   128.6
926  -3768.1 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1798.1  1732.0  0.01754          0.01764  1791.3  1724.9
            C:60286 NOBLES 3 345 60287 NOBLES 7 115 C1   1291
              Open 60286 NOBLES 3 345 60287 NOBLES 7 115 C1                         -0.01416  0.00735  -476.5  -504.2
927  -3764.6 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1799.8  1732.0  0.01801          0.01764  1791.3  1724.9
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            C:61640 BADOURA7 115 66716 LAPORTE7 115 1    3359
              Open 61640 BADOURA7 115 66716 LAPORTE7 115 1                          -0.16352 -0.00225   -51.8   -43.3
928  -3763.6 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1799.8  1732.0  0.01802          0.01764  1791.3  1724.9
            C:60150 MNVLTAP4 230 66550 GRANITF4 230 1    1056
              Open 60150 MNVLTAP4 230 66550 GRANITF4 230 1                          -0.02727 -0.01397  -311.5  -258.9
929  -3757.9 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1799.8  1732.0  0.01804          0.01764  1791.3  1725.0
            C:63050 WILLMAR4 230 66550 GRANITF4 230 1    2051
              Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                          -0.03912 -0.01028  -216.5  -177.9
930  -3757.3 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -26.0   -19.3 -0.00179         -0.00094   -19.4   -15.9
            C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
              Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          -0.00752  0.11317   881.7   456.5
931  -3751.3 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -20.9   -17.3 -0.00095         -0.00089   -19.8   -16.4
            C:63051 HENNING4 230 63052 INMAN  4 230 1    2052
              Open 63051 HENNING4 230 63052 INMAN  4 230 1                          -0.00507  0.01089   210.2   169.3
932  -3749.8 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1798.7  1732.0  0.01780          0.01764  1791.3  1725.2
            C:670     1                                  3728
              Open 60160 SHERCO 3 345 60202 COON CK3 345 1                           0.00973  0.00772   472.9   444.0
              Open 60160 SHERCO 3 345 63031 BUNKER 3 345 1                           0.00068  0.00766   491.3   462.6
              Open 60202 COON CK3 345 63031 BUNKER 3 345 1                          -0.00905 -0.00803  -364.6  -334.5
              Open 60202 COON CK3 345 61487 CNCMID2Y 345 1                          -0.00211 -0.00154   328.4   334.2
              Open 60203 COON CK7 115 61487 CNCMID2Y 345 1                          -0.03765  0.00000     0.1     0.1
              Open 60655 CNCTER2934.5 61487 CNCMID2Y 345 1     NA
              Open 63031 BUNKER 3 345 63046 BUNKER 4 230 1                          -0.03071  0.00000     4.3     4.3
933  -3745.6 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          64.1    47.0  0.00456          0.00439    62.9    46.5
            C:34020 HAZL S 5 161 34135 DUNDEE 5 161 1      60
              Open 34020 HAZL S 5 161 34135 DUNDEE 5 161 1                           0.00558  0.03042   207.8    93.9
934  -3741.5 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1799.1  1732.0  0.01792          0.01764  1791.3  1725.3
            C:66503 BLAIR  4 230 66550 GRANITF4 230 1    2447
              Open 66503 BLAIR  4 230 66550 GRANITF4 230 1                           0.02923  0.00970   264.5   228.2
935  -3735.4 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1798.9  1732.0  0.01792          0.01764  1791.3  1725.4
            C:009   4                                  3698
              Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                           0.00750  0.00782   479.8   450.5
              Open 60202 COON CK3 345 60272 MPLEGV23 345 1                          -0.04042  0.00000     4.2     4.2
              Open 60202 COON CK3 345 63030 DICKNSN3 345 1                          -0.01250 -0.01742  -393.2  -328.1
              Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                          -0.00220 -0.00156   331.6   337.4
              Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                          -0.03822  0.00000     0.1     0.1
              Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1     NA
936  -3734.6 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -382.8  -318.0 -0.01735         -0.01397  -311.5  -259.4
            C:63050 WILLMAR4 230 66550 GRANITF4 230 1    2051
              Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                           0.32922 -0.01028  -216.5  -178.1
937  -3734.5 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -16.7   -13.7 -0.00080         -0.00089   -14.3   -11.0
            C:60142 BENTON 3 345 60160 SHERCO 3 345 1    1034
              Open 60142 BENTON 3 345 60160 SHERCO 3 345 1                           0.01187  0.00792  -197.5  -227.1
938  -3728.3 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -16.7   -13.7 -0.00080         -0.00089   -14.3   -11.0
            C:675                                      3731
              Open 60142 BENTON 3 345 63045 BENTON 4 230 1                          -0.00000 -0.00403   100.4   115.4
              Open 60142 BENTON 3 345 60160 SHERCO 3 345 1                           0.01187  0.00792  -197.5  -227.0
              Open 60142 BENTON 3 345 63045 BENTON 4 230 2                           0.01461  0.00000     0.3     0.3
939  -3726.1 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1798.2  1732.0  0.01777          0.01764  1791.3  1725.6
            C:63345 WILTON 4 230 66758 WINGER 4 230 1    2194
              Open 63345 WILTON 4 230 66758 WINGER 4 230 1                          -0.07563 -0.00169   -90.9   -84.6
940  -3722.3 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1798.1  1732.0  0.01777          0.01764  1791.3  1725.7
            C:63186 WILTON Y 230 63345 WILTON 4 230 1    2059
              Open 63186 WILTON Y 230 63345 WILTON 4 230 1                          -0.07563 -0.00169   -90.0   -83.7
941  -3721.6 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1795.8  1732.0  0.01714          0.01764  1791.3  1725.7
            C:760                                      3759
              Open 60105 PR ISLD3 345 60236 REDROCK3 345 1                           0.01470 -0.01692   149.9   212.9
              Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                           0.01470 -0.01725   152.8   217.0
942  -3721.6 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1795.8  1732.0  0.01714          0.01764  1791.3  1725.7
            C:PRI-RRK/RRK3                             3644
              Open 60105 PR ISLD3 345 60236 REDROCK3 345 1                           0.01470 -0.01692   149.9   212.9
              Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                           0.01470 -0.01725   152.8   217.0
943  -3721.6 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1798.1  1732.0  0.01777          0.01764  1791.3  1725.7
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            C:63186 WILTON Y 230 63245 WILTON 7 115 1    2058
              Open 63186 WILTON Y 230 63245 WILTON 7 115 1                          0.07563  0.00169    89.8    83.6
944  -3718.6 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1797.6  1732.0  0.01764          0.01764  1791.3  1725.7
            C:67101 ANTELOP3 345 67218 AVSDC7TY 345 1    2598
              Open 67101 ANTELOP3 345 67218 AVSDC7TY 345 1                          0.11940  0.00000    52.5    52.5
945  -3711.7 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -20.8   -17.3 -0.00095         -0.00089   -19.8   -16.5
            C:60760 PAYNES 869.0 62835 ROSCOTP869.0 P1   3125
              Open 60760 PAYNES 869.0 62835 ROSCOTP869.0 P1                        -0.03280  0.00178    31.7    25.1
946  -3711.3 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1797.5  1732.0  0.01764          0.01764  1791.3  1725.9
            C:60010 HIBRD76G18.0 60214 HIBRDGE7 115 1    2900
              Open 60010 HIBRD76G18.0 60214 HIBRDGE7 115 1                         -0.03647  0.00000  -168.3  -168.3
947  -3698.7 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1797.4  1732.0  0.01768          0.01764  1791.3  1726.1
            C:63237 MAHNOMN7 115 63238 WINGER 7 115 1    2118
              Open 63237 MAHNOMN7 115 63238 WINGER 7 115 1                         -0.13207 -0.00028   -45.8   -44.8
948  -3694.9 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -72.2   -58.0 -0.00384         -0.00273   -59.9   -49.9
            C:34047 ANTA TP5 161 34048 ANITA  5 161 1     107
              Open 34047 ANTA TP5 161 34048 ANITA  5 161 1                         -0.15412  0.00719    79.4    52.9
949  -3680.6 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1801.7  1732.0  0.01893          0.01764  1791.3  1726.4
            C:KOL-CNC/TER3                               3639
              Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          0.02829  0.02476   409.3   318.2
              Open 60221 KOLMNLK3 345 60251 TERMINL3 345 1                         -0.02595 -0.02267    47.8   131.2
950  -3674.8 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1802.0  1732.0  0.01904          0.01764  1791.3  1726.5
            C:022       4                                3705
              Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          0.03065  0.02476   409.3   318.3
              Open 60221 KOLMNLK3 345 60251 TERMINL3 345 1                         -0.02888 -0.02267    47.8   131.1
              Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                         -0.01000  0.00036   207.1   205.8
              Open 60251 TERMINL3 345 61492 TERMID1Y 345 1                          0.00463 -0.00166   336.0   342.1
              Open 60252 TERMINL7 115 61492 TERMID1Y 345 1                         -0.03181  0.00000     0.2     0.2
              Open 61187 TERTER1934.5 61492 TERMID1Y 345 1     NA
951  -3674.0 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1795.8  1732.0  0.01737          0.01764  1791.3  1726.5
            C:66550 GRANITF4 230 66554 MORRIS 4 230 1    2506
              Open 66550 GRANITF4 230 66554 MORRIS 4 230 1                         -0.06942  0.00390   -64.6   -78.9
952  -3673.5 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1796.8  1732.0  0.01764          0.01764  1791.3  1726.5
            C:535       1                                3721
              Open 60134 SHEYNNE7 115 60135 CASS CO7 115 1                         -0.00360 -0.00005    29.4    29.6
              Open 60134 SHEYNNE7 115 66761 MODEROW7 115 1                         -0.00360 -0.00005    33.9    34.1
              Open 60135 CASS CO7 115 66761 MODEROW7 115 1     NA
              Open 60135 CASS CO7 115 60137 REDRIVR7 115 1                          0.13308  0.00000    42.8    42.8
953  -3666.8 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1796.8  1732.0  0.01768          0.01764  1791.3  1726.6
            C:63237 MAHNOMN7 115 66717 ULRICH 7 115 1    2119
              Open 63237 MAHNOMN7 115 66717 ULRICH 7 115 1                          0.13207  0.00028    41.6    40.5
954  -3665.6 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1786.0  1732.0  0.01472          0.01764  1791.3  1726.7
            C:34018 HAZLTON3 345 34093 ARNOLD 3 345 1      55
              Open 34018 HAZLTON3 345 34093 ARNOLD 3 345 1                         -0.01610  0.18131   333.4  -331.2
955  -3663.8 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1796.6  1732.0  0.01764          0.01764  1791.3  1726.7
            C:63192 HENSEL Y 115 63257 HENSEL 7 115 1    2070
              Open 63192 HENSEL Y 115 63257 HENSEL 7 115 1                          0.37319  0.00000    14.2    14.2
956  -3663.8 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1796.6  1732.0  0.01764          0.01764  1791.3  1726.7
            C:63257 HENSEL 7 115 66705 DRAYTON7 115 1    2149
              Open 63257 HENSEL 7 115 66705 DRAYTON7 115 1                          0.37319  0.00000    14.2    14.2
957  -3660.2 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1794.8  1732.0  0.01715          0.01764  1791.3  1726.8
            C:66523 SIOUXFL4 230 66578 PAHOJA 4 230 1    2494
              Open 66523 SIOUXFL4 230 66578 PAHOJA 4 230 1                          0.01562 -0.03119   221.0   335.1
958  -3656.4 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -56.0   -48.0 -0.00220         -0.00216   -53.9   -46.0
            C:60342 WHAST  7 115 62258 WHASTNG869.0 1    3029
              Open 60342 WHAST  7 115 62258 WHASTNG869.0 1                         -0.05012  0.00079    42.9    40.0
959  -3649.2 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1796.5  1732.0  0.01768          0.01764  1791.3  1727.0
            C:63236 AUDUBON7 115 66717 ULRICH 7 115 1    2117
              Open 63236 AUDUBON7 115 66717 ULRICH 7 115 1                         -0.13207 -0.00028   -39.2   -38.2
960  -3648.4 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1794.6  1732.0  0.01715          0.01764  1791.3  1727.0
            C:66562 EAGLE  4 230 66578 PAHOJA 4 230 1    2515
              Open 66562 EAGLE  4 230 66578 PAHOJA 4 230 1                         -0.01562  0.03119  -208.0  -321.8
961  -3645.4 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          68.5    47.0  0.00590          0.00439    62.9    46.9
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              C:34018 HAZLTON3 345 60102 ADAMS  3 345 1      56
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                          -0.01065 -0.14203  -525.7    -7.9
 962  -3643.2 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1796.3  1732.0  0.01764          0.01764  1791.3  1727.1
              C:67304 BAKER  4 230 67310 BOWMAN 4 230 1    2650
                Open 67304 BAKER  4 230 67310 BOWMAN 4 230 1                           0.05071  0.00004    97.5    97.4
 963  -3642.9 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.4    47.0  0.00396          0.00439    62.9    46.9
              C:60955 SPARTA2869.0 60956 MCCOY  869.0 1    1562
                Open 60955 SPARTA2869.0 60956 MCCOY  869.0 1                           0.20389 -0.00208    -7.2     0.4
 964  -3637.7 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -17.5   -13.7 -0.00104         -0.00089   -14.3   -11.1
              C:CNC-DKN/SHC3                               3634
                Open 60202 COON CK3 345 63030 DICKNSN3 345 1                           0.00893 -0.01742  -393.2  -329.8
                Open 60202 COON CK3 345 60272 MPLEGV23 345 1                          -0.00076 -0.00782  -475.5  -447.1
 965  -3636.8 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1796.2  1732.0  0.01764          0.01764  1791.3  1727.2
              C:63192 HENSEL Y 115 66796 HENSELU869.0 1    2071
                Open 63192 HENSEL Y 115 66796 HENSELU869.0 1                           0.37319  0.00000    12.9    12.9
 966  -3636.5 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1796.1  1732.0  0.01764          0.01764  1791.3  1727.2
              C:66796 HENSELU869.0 66818 HENSEL 869.0 1    2588
                Open 66796 HENSELU869.0 66818 HENSEL 869.0 1                           0.37319  0.00000    12.9    12.9
 967  -3634.7 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1796.1  1732.0  0.01764          0.01764  1791.3  1727.2
              C:63254 VIKING 7 115 63354 VIK PIP94.20 1    3450
                Open 63254 VIKING 7 115 63354 VIK PIP94.20 1                           0.27503  0.00000    17.4    17.4
 968  -3631.5 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1795.8  1732.0  0.01756          0.01764  1791.3  1727.3
              C:63255 DONALDS7 115 66718 HALMA  7 115 1    2148
                Open 63255 DONALDS7 115 66718 HALMA  7 115 1                           0.12615 -0.00063    35.2    37.5
 969  -3631.5 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1796.1  1732.0  0.01764          0.01764  1791.3  1727.3
              C:67101 ANTELOP3 345 67212 AVSDC1TY 345 1    2597
                Open 67101 ANTELOP3 345 67212 AVSDC1TY 345 1                           0.11940  0.00000    39.6    39.6
 970  -3631.3*L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1787.5  1732.0  0.01528          0.01764  1791.3  1727.3
              C:34093 ARNOLD 3 345 64352 TIFFIN 3 345 1    2777
                Open 34093 ARNOLD 3 345 64352 TIFFIN 3 345 1                          -0.01108  0.21292   346.7  -426.5
 972  -3627.0 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -16.6   -13.7 -0.00079         -0.00089   -14.3   -11.1
              C:62150 E BL TP869.0 62965 ELKRWS1869.0 1    1795
                Open 62150 E BL TP869.0 62965 ELKRWS1869.0 1                           0.13539  0.00074   -16.5   -19.2
 975  -3626.0 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          62.9    47.0  0.00439
                Base Case
 977  -3616.8 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          21.3    19.3  0.00056          0.00055    23.3    21.3
              C:60747 VILLARD869.0 60748 WESTPRT869.0 1    1427
                Open 60747 VILLARD869.0 60748 WESTPRT869.0 1                           0.12264  0.00007   -16.2   -16.5
 981  -3613.7 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -16.6   -13.7 -0.00079         -0.00089   -14.3   -11.1
              C:62100 BIG LAK869.0 62150 E BL TP869.0 1    1732
                Open 62100 BIG LAK869.0 62150 E BL TP869.0 1                           0.13539  0.00074   -16.4   -19.1
 993  -3578.3 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -61.7   -48.0 -0.00382         -0.00216   -48.8   -41.0
              C:61948 BYRON  5 161 61964 OWATNNA5 161 1    1696
                Open 61948 BYRON  5 161 61964 OWATNNA5 161 1                           0.08197 -0.02028  -157.4   -84.9
 998  -3572.7 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -21.2   -17.3 -0.00109         -0.00089   -19.8   -16.6
              C:BLL-PRI/IVH3                               3638
                Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                           0.00217 -0.03964  -143.5    -1.9
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.00228  0.04835   476.6   303.8
1007  -3564.7 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          60.6    47.0  0.00381          0.00439    62.9    47.3
              C:60308 LACROSS5 161 60311 MAYFAIR5 161 1    1326
                Open 60308 LACROSS5 161 60311 MAYFAIR5 161 1                           0.04529 -0.01267   -51.1    -5.9
1011  -3552.5 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -61.6   -48.0 -0.00382         -0.00216   -48.8   -41.1
              C:BYN-WOW/KAN5                               3653
                Open 61948 BYRON  5 161 61964 OWATNNA5 161 1                           0.08197 -0.02028  -157.4   -85.4
                Open 60799 KASSON 869.0 61161 BYRON  869.0 1                           0.00368  0.00000    26.8    26.8
1020  -3541.1 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -21.1   -17.3 -0.00108         -0.00089   -19.8   -16.6
              C:62616 BIGSWAN7 115 62982 HUTCHMN7 115 1    3388
                Open 62616 BIGSWAN7 115 62982 HUTCHMN7 115 1                           0.04556 -0.00412   -29.3   -14.7
1022  -3540.4 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -17.4   -13.7 -0.00105         -0.00089   -14.3   -11.2
              C:009   4                                    3698
                Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                           0.00074  0.00782   479.8   452.1
                Open 60202 COON CK3 345 60272 MPLEGV23 345 1                           0.00397  0.00000     4.2     4.2
                Open 60202 COON CK3 345 63030 DICKNSN3 345 1                           0.00896 -0.01742  -393.2  -331.5
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                Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                          0.00029 -0.00156   331.6   337.1
                Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                          0.00368  0.00000     0.1     0.1
                Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1     NA
1030  -3526.9 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -56.6   -48.0 -0.00243         -0.00216   -53.9   -46.3
              C:60192 BLUE LK3 345 60217 INVRHLS3 345 1    1126
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.00564  0.04835   476.6   306.1
1046  -3506.7 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          67.5    47.0  0.00584          0.00439    62.9    47.5
              C:825                                        3771
                Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                          0.00433 -0.09714  -545.7  -205.0
                Open 34014 ADAMS  5 161 60102 ADAMS  3 345 1                         -0.00000  0.02245    -2.8   -81.6
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                         -0.01316 -0.14203  -525.7   -27.6
1055  -3497.4 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -55.9   -48.0 -0.00226         -0.00216   -53.9   -46.3
              C:715       4                                3748
                Open 60243 SCOTTAP7 115 62666 GLNDALE7 115 1                         -0.02416  0.00356    48.9    36.5
                Open 62666 GLNDALE7 115 62672 GLNDALE869.0 1                         -0.02559  0.00008    25.1    24.8
                Open 60243 SCOTTAP7 115 60244 SCOTTCO7 115 1                         -0.00714  0.00158    24.8    19.3
                Open 60194 CARVRCO7 115 60243 SCOTTAP7 115 1                         -0.00232  0.00000     1.5     1.5
                Open 60194 CARVRCO7 115 60931 CARVRCO869.0 1                         -0.00028 -0.00021    19.7    20.5
1057  -3495.4 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -56.2   -48.0 -0.00234         -0.00216   -53.9   -46.3
              C:60110 WILMART7 115 60194 CARVRCO7 115 1     964
                Open 60110 WILMART7 115 60194 CARVRCO7 115 1                         -0.02066  0.00886   111.2    80.2
1096  -3464.9 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -55.9   -48.0 -0.00228         -0.00216   -53.9   -46.4
              C:62980 MCLEOD 4 230 63054 PANTHER4 230 1    3394
                Open 62980 MCLEOD 4 230 63054 PANTHER4 230 1                          0.00732 -0.01700  -276.4  -217.5
1099  -3463.6 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -16.8   -13.7 -0.00089         -0.00089   -14.3   -11.2
              C:62986 HUTCHMN869.0 62988 HTCHHTI869.0 1    2029
                Open 62986 HUTCHMN869.0 62988 HTCHHTI869.0 1                         -0.08394  0.00000    29.2    29.2
1107  -3456.5 L:61721 ETCO   7 115 61722 FORBES 7 115 1       -107.9   -98.0 -0.00287         -0.00176   -94.4   -88.3
              C:050    1                                   3715
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                         -0.00871  0.06362   901.3   681.4
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          0.00788 -0.06704  -692.1  -460.4
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                         -0.00000 -0.00175    77.5    83.5
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                          0.00668 -0.00300     0.0    10.4
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                          0.00562 -0.00148   -42.6   -37.5
1119  -3448.6 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -21.8   -17.3 -0.00132         -0.00089   -19.8   -16.7
              C:60765 MAPLELK869.0 62935 MAPLELK869.0 1    1439
                Open 60765 MAPLELK869.0 62935 MAPLELK869.0 1                         -0.32182  0.00132     6.4     1.8
1120  -3448.6 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -23.9   -19.3 -0.00134         -0.00094   -19.4   -16.2
              C:715       4                                3748
                Open 60243 SCOTTAP7 115 62666 GLNDALE7 115 1                         -0.06687  0.00356    48.9    36.7
                Open 62666 GLNDALE7 115 62672 GLNDALE869.0 1                          0.00015  0.00008    25.1    24.8
                Open 60243 SCOTTAP7 115 60244 SCOTTCO7 115 1                         -0.09199  0.00158    24.8    19.3
                Open 60194 CARVRCO7 115 60243 SCOTTAP7 115 1                         -0.06360  0.00000     1.5     1.5
                Open 60194 CARVRCO7 115 60931 CARVRCO869.0 1                          0.05782 -0.00021    19.7    20.5
1121  -3448.2 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -56.8   -48.0 -0.00254         -0.00216   -48.8   -41.3
              C:700    1                                   3737
                Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                          0.00507 -0.03964  -143.5    -6.8
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.02037  0.04835   476.6   309.9
                Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                          0.01540  0.05190   157.6   -21.4
1122  -3447.2 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.5    47.0  0.00421          0.00439    62.9    47.8
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                         -0.00160  0.11317   881.7   491.6
1141  -3441.8 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          60.3    47.0  0.00388          0.00439    62.9    47.8
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                          0.00365 -0.13973  -702.5  -221.6
1160  -3431.4 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -54.8   -48.0 -0.00197         -0.00216   -48.8   -41.4
              C:SPC-PRI/CTF5                               3682
                Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                         -0.04135 -0.00257   118.9   127.7
                Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                          0.02632  0.00307   -41.1   -51.6
1161  -3430.3 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -55.3   -48.0 -0.00214         -0.00216   -53.9   -46.5
              C:60218 INVRHLS7 115 60223 KOCHREF7 115 1    1199
                Open 60218 INVRHLS7 115 60223 KOCHREF7 115 1                         -0.00947 -0.00189   153.8   160.3
1175  -3423.6 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -55.4   -48.0 -0.00216         -0.00216   -53.9   -46.5
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                C:60008 RIVRS78G22.0 60240 RIVRSID7 115 1    2898
                  Open 60008 RIVRS78G22.0 60240 RIVRSID7 115 1                          0.00660  0.00000  -227.9  -227.9
1177  -3423.2 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -55.4   -48.0 -0.00216         -0.00216   -53.9   -46.5
                C:60013 BLK D73G13.8 60200 BLK DG27 115 1    2903
                  Open 60013 BLK D73G13.8 60200 BLK DG27 115 1                          0.01335  0.00000  -112.6  -112.6
1192  -3414.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -54.7   -48.0 -0.00197         -0.00216   -48.8   -41.4
                C:740    1                                   3754
                  Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                          0.02632  0.00307   -41.1   -51.6
                  Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                         -0.04135 -0.00257   118.9   127.7
                  Open 60103 CANNFLS5 161 60104 CANNFLS7 115 1                          0.07231  0.00000     0.4     0.4
1194  -3409.7 L:60750 OSAKIS 869.0 62820 W UNION869.0 1          40.9    37.0  0.00115          0.00034    26.8    25.6
                C:500                                       3718
                  Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                         -0.07906 -0.01028  -216.5  -181.5
                  Open 62427 WILLMAR869.0 63050 WILLMAR4 230 1                          0.07685  0.00004   -38.4   -38.6
1195  -3406.7 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          18.2    13.7  0.00132          0.00089    11.3     8.2
                C:60703 WATKINS869.0 62620 WATKINS869.0 1    3072
                  Open 60703 WATKINS869.0 62620 WATKINS869.0 1                         -0.32182 -0.00132   -21.5   -17.0
1200  -3399.4 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.8    47.0  0.00434          0.00439    62.9    48.0
                C:61128 LAW CRK7 115 62276 SHAFER 7 115 C1   3339
                  Open 61128 LAW CRK7 115 62276 SHAFER 7 115 C1                         0.00475 -0.00913  -240.5  -209.4
1201  -3395.3 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.9    47.0  0.00439          0.00439    62.9    48.0
                C:66519 OAHE   4 230 66556 OAHE2-3G13.8 1    3560
                  Open 66519 OAHE   4 230 66556 OAHE2-3G13.8 1                          0.00642  0.00000  -157.6  -157.6
1202  -3394.9 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          60.5    47.0  0.00396          0.00439    62.9    48.0
                C:60954 TMAC 2 869.0 60956 MCCOY  869.0 1    1560
                  Open 60954 TMAC 2 869.0 60956 MCCOY  869.0 1                         -0.20389  0.00208    12.0     5.0
1203  -3394.7 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.7    47.0  0.00434          0.00439    62.9    48.0
                C:60920 LINDSTM7 115 62276 SHAFER 7 115 C1   3210
                  Open 60920 LINDSTM7 115 62276 SHAFER 7 115 C1                        -0.00475  0.00913   244.7   213.7
1205  -3385.4 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          60.4    47.0  0.00396          0.00439    62.9    48.1
                C:60954 TMAC 2 869.0 60957 CATARAC869.0 1    1561
                  Open 60954 TMAC 2 869.0 60957 CATARAC869.0 1                          0.20389 -0.00208   -12.2    -5.2
1206  -3385.2 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -55.7   -48.0 -0.00227         -0.00216   -53.9   -46.6
                C:795                                       3765
                  Open 60150 MNVLTAP4 230 66550 GRANITF4 230 1                          0.00667 -0.01397  -311.5  -264.2
                  Open 60148 MINVALY7 115 60149 MINVALT4 230 C1                        -0.00723  0.00290    18.2     8.4
                  Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                          0.00674  0.00000     0.0     0.0
                  Open 60149 MINVALT4 230 60150 MNVLTAP4 230 1     NA
                  Open 60742 PANTHER869.0 63054 PANTHER4 230 1                         -0.00995  0.00014   -40.1   -40.5
1207  -3384.8 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          21.2    19.3  0.00056          0.00055    23.3    21.4
                C:SHC-CNC/ECK3                              3631
                  Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                         -0.00131  0.00782   479.8   453.3
                  Open 60114 ELM CRK3 345 60151 MNTCELO3 345 1                          0.00233  0.01063  -631.1  -667.1
1208  -3383.9 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          60.1    47.0  0.00387          0.00439    62.9    48.1
                C:60309 MRSHLND5 161 69535 LAC TAP5 161 1    3010
                  Open 60309 MRSHLND5 161 69535 LAC TAP5 161 1                         -0.03702  0.01384    75.5    28.7
1210  -3380.3 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.8    47.0  0.00439          0.00439    62.9    48.1
                C:60013 BLK D73G13.8 60200 BLK DG27 115 1    2903
                  Open 60013 BLK D73G13.8 60200 BLK DG27 115 1                          0.00958  0.00000  -112.6  -112.6
1211  -3380.2 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -55.1   -48.0 -0.00209         -0.00216   -53.9   -46.6
                C:60817 BURNSID869.0 62387 SPRNGCK869.0 1    3166
                  Open 60817 BURNSID869.0 62387 SPRNGCK869.0 1                          0.06216  0.00111   -18.9   -22.7
1214  -3378.1 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.7    47.0  0.00434          0.00439    62.9    48.1
                C:60196 CHI    7 115 60920 LINDSTM7 115 C1   1140
                  Open 60196 CHI    7 115 60920 LINDSTM7 115 C1                         -0.00475  0.00913   259.9   229.0
1216  -3373.5 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.6    47.0  0.00433          0.00439    62.9    48.1
                C:61051 STCRFL5G 161 61131 LAW CRK5 161 C1   1652
                  Open 61051 STCRFL5G 161 61131 LAW CRK5 161 C1                         0.00540 -0.01032  -239.9  -205.0
1217  -3372.2 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -54.8   -47.0 -0.00230         -0.00211   -59.2   -52.0
                C:61948 BYRON  5 161 61950 BYRON  3 345 1    1695
                  Open 61948 BYRON  5 161 61950 BYRON  3 345 1                         -0.02365  0.00825  -185.7  -213.5
1219  -3368.9 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -55.4   -48.0 -0.00218         -0.00216   -53.9   -46.6
                C:022       1                               3703
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                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          -0.00073  0.02476   409.3   325.9
                Open 60221 KOLMNLK3 345 60251 TERMINL3 345 1                          -0.00096 -0.02267    47.8   124.2
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                          -0.00169  0.01934   627.4   562.3
                Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                          -0.00041  0.00036   207.1   205.9
                Open 60251 TERMINL3 345 61492 TERMID1Y 345 1     NA
                Open 60252 TERMINL7 115 61492 TERMID1Y 345 1                           0.00000  0.00166  -335.8  -341.4
                Open 61187 TERTER1934.5 61492 TERMID1Y 345 1     NA
                Open 60251 TERMINL3 345 61491 TERMID2Y 345 1     NA
                Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                           0.00712  0.00000     0.3     0.3
                Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
1220  -3368.2 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.6    47.0  0.00433          0.00439    62.9    48.1
              C:61051 STCRFL5G 161 69565 APL RVR5 161 C1   3302
                Open 61051 STCRFL5G 161 69565 APL RVR5 161 C1                         -0.00540  0.01032   244.1   209.3
1221  -3368.2 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.8    47.0  0.00439          0.00439    62.9    48.1
              C:66507 FTTHOMP4 230 66540 BIGBND14 230 1    2461
                Open 66507 FTTHOMP4 230 66540 BIGBND14 230 1                           0.00642  0.00000  -176.2  -176.2
1222  -3364.6 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.6    47.0  0.00434          0.00439    62.9    48.1
              C:CHI-WYO/LIN7                               3650
                Open 60196 CHI    7 115 60345 WYOMING7 115 1                          -0.00056 -0.00191    63.9    70.3
                Open 60196 CHI    7 115 60920 LINDSTM7 115 C1                         -0.00484  0.00913   259.9   229.2
1223  -3363.4 L:60173 ROSEAUN2 500 60174 ROSEAUS2 500 1        1791.3  1732.0  0.01764
                Base Case
1225  -3355.9 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -24.1   -19.3 -0.00143         -0.00094   -19.4   -16.2
              C:CAR-WWK/AGA7                               3664
                Open 60194 CARVRCO7 115 60277 WWACNIA7 115 1                          -0.04716  0.00414    -9.9   -23.8
                Open 60931 CARVRCO869.0 62676 AUGUSTA869.0 1                          -0.20662  0.00142    25.0    20.2
1227  -3350.6 L:61721 ETCO   7 115 61722 FORBES 7 115 1        -107.4   -98.0 -0.00282         -0.00176   -94.4   -88.5
              C:050    2                                   3716
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          -0.00883  0.06362   901.3   688.1
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.00736 -0.06704  -692.1  -467.5
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          -0.00000 -0.00175    77.5    83.3
1228  -3343.3 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          60.9    47.0  0.00417          0.00439    62.9    48.2
              C:60949 MONROCO869.0 60951 ROCKLND869.0 1    1555
                Open 60949 MONROCO869.0 60951 ROCKLND869.0 1                           0.19760 -0.00109    -9.9    -6.3
1229  -3342.9 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -55.6   -48.0 -0.00227         -0.00216   -53.9   -46.7
              C:60189 BLK DOG4 230 60190 BLK DOG7 115 C1   1120
                Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                         -0.00893  0.01298   192.3   148.9
1230  -3342.9 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -55.6   -48.0 -0.00227         -0.00216   -53.9   -46.7
              C:810   C1                                   3767
                Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                           0.00893 -0.01298  -192.3  -148.9
                Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                          0.00931  0.00000    -0.0    -0.0
1231  -3342.9 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -55.6   -48.0 -0.00227         -0.00216   -53.9   -46.7
              C:60189 BLK DOG4 230 62980 MCLEOD 4 230 1    1121
                Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                           0.00893 -0.01298  -192.3  -148.9
1232  -3342.4 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -17.1   -13.7 -0.00103         -0.00089   -14.3   -11.4
              C:63050 WILLMAR4 230 66550 GRANITF4 230 1    2051
                Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                           0.01287 -0.01028  -216.5  -182.2
1234  -3334.0 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.2    47.0  0.00426          0.00439    62.9    48.3
              C:60305 EAU CLA5 161 60323 SEVN ML5 161 1    1318
                Open 60305 EAU CLA5 161 60323 SEVN ML5 161 1                          -0.02062  0.00638    83.4    62.1
1235  -3318.4 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          21.2    19.3  0.00057          0.00055    23.3    21.5
              C:009   2                                    3697
                Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                          -0.00131  0.00782   479.8   453.8
                Open 60202 COON CK3 345 60272 MPLEGV23 345 1                          -0.00121  0.00000     4.2     4.2
                Open 60114 ELM CRK3 345 60151 MNTCELO3 345 1                           0.00179  0.01063  -631.1  -666.4
                Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                          -0.00075 -0.01568   349.1   401.1
                Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                          -0.00028 -0.00156   331.6   336.7
                Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                          -0.00093  0.00000     0.1     0.1
                Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1     NA
1236  -3316.9 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -54.9   -48.0 -0.00209         -0.00216   -53.9   -46.7
              C:RRK-ASK/CGR7                               3657
                Open 60186 AS KING3 345 60236 REDROCK3 345 1                          -0.00199 -0.01969   140.3   205.6
                Open 60204 COTTAGE7 115 60238 REDROCK7 115 1                           0.01085  0.00260   -70.9   -79.6
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1238  -3308.8 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.5    47.0  0.00439          0.00439    62.9    48.4
              C:66537 WHITE  3 345  6653 GI0108  34.5 1    3565
                Open 66537 WHITE  3 345  6653 GI0108  34.5 1                          0.00700  0.00000  -198.9  -198.9
1240  -3307.9 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.5    47.0  0.00439          0.00439    62.9    48.4
              C:63002 STANT41G18.0 63049 STANTON4 230 1    3398
                Open 63002 STANT41G18.0 63049 STANTON4 230 1                          0.00720  0.00000  -193.8  -193.8
1242  -3305.9 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.5    47.0  0.00439          0.00439    62.9    48.4
              C:60287 NOBLES 7 115  6430 G287    34.5 1    3626
                Open 60287 NOBLES 7 115  6430 G287    34.5 1                          0.00702  0.00000  -200.0  -200.0
1243  -3305.7 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -55.1   -48.0 -0.00216         -0.00216   -53.9   -46.8
              C:60010 HIBRD76G18.0 60214 HIBRDGE7 115 1    2900
                Open 60010 HIBRD76G18.0 60214 HIBRDGE7 115 1                          0.00742  0.00000  -168.3  -168.3
1245  -3304.6 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.7    47.0  0.00444          0.00439    62.9    48.4
              C:61948 BYRON  5 161 61950 BYRON  3 345 1    1695
                Open 61948 BYRON  5 161 61950 BYRON  3 345 1                          0.00662  0.00825  -185.7  -213.0
1248  -3303.6 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.5    47.0  0.00439          0.00439    62.9    48.4
              C:60369 FENTON 7 115  6036 G162    34.5 1    3039
                Open 60369 FENTON 7 115  6036 G162    34.5 1                          0.00708  0.00000  -199.8  -199.8
1249  -3303.1 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.5    47.0  0.00439          0.00439    62.9    48.4
              C: 6001 YANKEE 7 115  6002 YANKGEN 34.5 1    3621
                Open  6001 YANKEE 7 115  6002 YANKGEN 34.5 1                          0.00706  0.00000  -200.8  -200.8
1252  -3301.5 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          60.1    47.0  0.00396          0.00439    62.9    48.4
              C:60957 CATARAC869.0 60959 T MEL1 869.0 1    1563
                Open 60957 CATARAC869.0 60959 T MEL1 869.0 1                          0.20389 -0.00208   -13.9    -7.0
1253  -3300.7 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          60.1    47.0  0.00396          0.00439    62.9    48.4
              C:60959 T MEL1 869.0 60960 T MEL2 869.0 1    1566
                Open 60959 T MEL1 869.0 60960 T MEL2 869.0 1                          0.20389 -0.00208   -13.9    -7.0
1254  -3300.1 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.5    47.0  0.00439          0.00439    62.9    48.4
              C:60015 ANSON CG 115 61475 ANS TR2Y 115 2     941
                Open 60015 ANSON CG 115 61475 ANS TR2Y 115 2                          0.00677  0.00000  -211.2  -211.2
1255  -3300.0 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.5    47.0  0.00439          0.00439    62.9    48.4
              C:60015 ANSON CG 115 60129 SPLT RK7 115 1     940
                Open 60015 ANSON CG 115 60129 SPLT RK7 115 1                          0.00677  0.00000  -211.3  -211.3
1259  -3296.4 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.5    47.0  0.00439          0.00439    62.9    48.4
              C:60331 LKFLDXL3 345 63093 LGS  56Y1.00 1    3022
                Open 60331 LKFLDXL3 345 63093 LGS  56Y1.00 1                          0.00790  0.00000  -183.0  -183.0
1260  -3296.4 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.5    47.0  0.00439          0.00439    62.9    48.4
              C:60331 LKFLDXL3 345 63092 LGS  34Y1.00 1    3021
                Open 60331 LKFLDXL3 345 63092 LGS  34Y1.00 1                          0.00790  0.00000  -183.0  -183.0
1261  -3296.4 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.5    47.0  0.00439          0.00439    62.9    48.4
              C:60331 LKFLDXL3 345 63091 LGS  12Y1.00 1    3020
                Open 60331 LKFLDXL3 345 63091 LGS  12Y1.00 1                          0.00790  0.00000  -183.0  -183.0
1266  -3294.0 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -55.5   -48.0 -0.00226         -0.00216   -53.9   -46.8
              C:715       2                                3746
                Open 60243 SCOTTAP7 115 62666 GLNDALE7 115 1                         -0.02476  0.00356    48.9    37.2
                Open 60242 SAVAGE 7 115 62668 EGLCKTP7 115 1     NA
                Open 62666 GLNDALE7 115 62672 GLNDALE869.0 1                         -0.02556  0.00008    25.1    24.8
                Open 60243 SCOTTAP7 115 60244 SCOTTCO7 115 1                         -0.00651  0.00158    24.8    19.6
                Open 60194 CARVRCO7 115 60243 SCOTTAP7 115 1                         -0.00273  0.00000     1.5     1.5
                Open 60194 CARVRCO7 115 60931 CARVRCO869.0 1                          0.00007 -0.00021    19.7    20.4
                Open 60190 BLK DOG7 115 60242 SAVAGE 7 115 1                          0.00520 -0.00055    29.6    31.4
                Open 62668 EGLCKTP7 115 62975 SHAKOPE7 115 1     NA
                Open 60244 SCOTTCO7 115 62975 SHAKOPE7 115 1                          0.00378  0.00000    55.2    55.2
                Open 60244 SCOTTCO7 115 60890 SCOTTCO869.0 2                          0.00339 -0.00079    23.8    26.4
1268  -3293.1 L:34384 MCARMOR869.0 34396 EMERY N869.0 1         -73.9   -51.0 -0.00695         -0.00199   -43.6   -37.0
              C:34015 LIME CK5 161 34016 EMERY  5 161 1      46
                Open 34015 LIME CK5 161 34016 EMERY  5 161 1                          0.15381 -0.03224  -197.2   -91.1
1270  -3291.1 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -55.4   -48.0 -0.00226         -0.00216   -53.9   -46.8
              C:SCO-SSK/CAR7                                   3675
                Open 60244 SCOTTCO7 115 62975 SHAKOPE7 115 1                         -0.00559  0.00055    25.6    23.8
                Open 60243 SCOTTAP7 115 60244 SCOTTCO7 115 1                          0.01987  0.00158    24.8    19.6
                Open 60194 CARVRCO7 115 60243 SCOTTAP7 115 1                         -0.02587  0.00514    75.2    58.3
                Open 60243 SCOTTAP7 115 62666 GLNDALE7 115 1                          0.02336  0.00000     1.5     1.5
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1276  -3282.2 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.4    47.0  0.00439          0.00439    62.9    48.5
              C:34006 LAKEFLD3 345  3400 G164    34.5 1    2707
                Open 34006 LAKEFLD3 345  3400 G164    34.5 1                          0.00755  0.00000  -199.8  -199.8
1277  -3281.8 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.4    47.0  0.00439          0.00439    62.9    48.5
              C:67106 LELANDO4 230 67110 LELAN41G22.0 1    3589
                Open 67106 LELANDO4 230 67110 LELAN41G22.0 1                          0.00705  0.00000  -214.2  -214.2
1278  -3280.7 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.4    47.0  0.00439          0.00439    62.9    48.5
              C:34016 EMERY  5 161 34911 EMERYGT218.0 1    2722
                Open 34016 EMERY  5 161 34911 EMERYGT218.0 1                          0.00912  0.00000  -166.2  -166.2
1279  -3280.7 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.4    47.0  0.00439          0.00439    62.9    48.5
              C:34016 EMERY  5 161 34910 EMERYGT118.0 1    2721
                Open 34016 EMERY  5 161 34910 EMERYGT118.0 1                          0.00912  0.00000  -166.2  -166.2
1281  -3278.0 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.4    47.0  0.00439          0.00439    62.9    48.5
              C:34007 LAKEFLD5 161  6006 G262    34.5 1    2709
                Open 34007 LAKEFLD5 161  6006 G262    34.5 1                          0.00763  0.00000  -200.2  -200.2
1291  -3273.1 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -55.4   -48.0 -0.00225         -0.00216   -48.8   -41.7
              C:IVH-BLL/RRK3                                 3643
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.01917  0.04835   476.6   318.3
                Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                          0.01602  0.05190   157.6   -12.3
1292  -3273.1 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -55.4   -48.0 -0.00225         -0.00216   -48.8   -41.7
              C:700    2                                     3738
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.01917  0.04835   476.6   318.3
                Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                          0.01602  0.05190   157.6   -12.3
1295  -3272.7 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.4    47.0  0.00439          0.00439    62.9    48.6
              C:60110 WILMART7 115  8007 G261-CT215.0 1    2940
                Open 60110 WILMART7 115  8007 G261-CT215.0 1                          0.00909  0.00000  -170.5  -170.5
1296  -3272.7 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.4    47.0  0.00439          0.00439    62.9    48.6
              C:60110 WILMART7 115  8006 G261-CT115.0 1    2939
                Open 60110 WILMART7 115  8006 G261-CT115.0 1                          0.00909  0.00000  -170.5  -170.5
1301  -3269.1 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -16.6   -13.7 -0.00089         -0.00089   -14.3   -11.4
              C:60000 SHERC31G24.0 60160 SHERCO 3 345 1    2890
                Open 60000 SHERC31G24.0 60160 SHERCO 3 345 1                          0.00393  0.00000  -580.3  -580.3
1304  -3265.1 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -55.3   -48.0 -0.00223         -0.00216   -53.9   -46.8
              C:60150 MNVLTAP4 230 63054 PANTHER4 230 1    2952
                Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                         -0.00423  0.01687   329.7   274.6
1310  -3260.9 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.3    47.0  0.00439          0.00439    62.9    48.6
              C:60010 HIBRD76G18.0 60214 HIBRDGE7 115 1    2900
                Open 60010 HIBRD76G18.0 60214 HIBRDGE7 115 1                          0.00952  0.00000  -168.3  -168.3
1311  -3260.8 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.3    47.0  0.00439          0.00439    62.9    48.6
              C:34146 OTTUMW1G24.0 34189 OTTUMWA5 161 1    2809
                Open 34146 OTTUMW1G24.0 34189 OTTUMWA5 161 1                          0.00344  0.00000  -466.3  -466.3
1314  -3257.3 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -55.2   -48.0 -0.00221         -0.00216   -48.8   -41.7
              C:60905 FRMNGTN869.0 62259 LKMARN 869.0 1    3207
                Open 60905 FRMNGTN869.0 62259 LKMARN 869.0 1                          0.20992 -0.00024   -30.6   -29.8
1318  -3252.0 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -55.2   -48.0 -0.00220         -0.00216   -53.9   -46.9
              C:022        3                                 3704
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                         -0.00100  0.02476   409.3   328.8
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                         -0.00111  0.01934   627.4   564.5
                Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                         -0.00023  0.00036   207.1   205.9
                Open 60251 TERMINL3 345 61491 TERMID2Y 345 1                         -0.00039 -0.00168   339.2   344.7
                Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                          0.00684  0.00000     0.2     0.2
                Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
1320  -3247.3 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          60.5    47.0  0.00417          0.00439    62.9    48.7
              C:60951 ROCKLND869.0 60952 BANGOR 869.0 1    1557
                Open 60951 ROCKLND869.0 60952 BANGOR 869.0 1                          0.19760 -0.00109   -11.9    -8.4
1322  -3244.4 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -23.1   -19.3 -0.00117         -0.00094   -19.4   -16.4
              C:60264 LOON LK7 115 61976 LOON LK869.0 1    1274
                Open 60264 LOON LK7 115 61976 LOON LK869.0 1                         -0.04347  0.00538    85.3    67.8
1323  -3244.4 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -23.1   -19.3 -0.00117         -0.00094   -19.4   -16.4
              C:60264 LOON LK7 115  6999 WTV1     115 1    2985
                Open 60264 LOON LK7 115  6999 WTV1     115 1                          0.04347 -0.00538   -85.3   -67.8
1328  -3235.6 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -55.2   -48.0 -0.00222         -0.00216   -53.9   -46.9
              C:60826 TRAVRSE869.0 62350 TRAVERS869.0 1    3175
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                Open 60826 TRAVRSE869.0 62350 TRAVERS869.0 1                          -0.02661  0.00249    49.3    41.3
1330  -3233.6 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.2    47.0  0.00439          0.00439    62.9    48.7
              C:66749 CENTER1G22.0 66751 CENTER 4 230 1    3575
                Open 66749 CENTER1G22.0 66751 CENTER 4 230 1                           0.00720  0.00000  -239.2  -239.2
1344  -3218.5 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -16.6   -13.7 -0.00089         -0.00089   -14.3   -11.5
              C:60001 SHERC32G24.0 60160 SHERCO 3 345 1    2891
                Open 60001 SHERC32G24.0 60160 SHERCO 3 345 1                           0.00393  0.00000  -568.8  -568.8
1349  -3213.7 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          16.5    13.7  0.00088          0.00089    11.3     8.4
              C:680    P2                                  3733
                Open 60143 BENTON 7 115 63045 BENTON 4 230 P2                         -0.00068  0.00362   -87.6   -99.2
                Open 62297 BENTON 869.0 63045 BENTON 4 230 1                          -0.09534  0.00013   -54.4   -54.8
1350  -3213.7 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          16.5    13.7  0.00088          0.00089    11.3     8.4
              C:680                                       3732
                Open 60143 BENTON 7 115 63045 BENTON 4 230 P2                         -0.00068  0.00362   -87.6   -99.2
                Open 62297 BENTON 869.0 63045 BENTON 4 230 1                          -0.09534  0.00013   -54.4   -54.8
1352  -3209.6 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -55.1   -48.0 -0.00221         -0.00216   -53.9   -47.0
              C:CNC-KOL/TER3                              3633
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          -0.00108  0.02476   409.3   329.9
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                          -0.00121  0.01934   627.4   565.4
1357  -3203.9 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          59.7    47.0  0.00396          0.00439    62.9    48.9
              C:60958 T SHAM 869.0 60960 T MEL2 869.0 1    1564
                Open 60958 T SHAM 869.0 60960 T MEL2 869.0 1                          -0.20389  0.00208    15.8     9.1
1358  -3201.0 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          60.8    47.0  0.00432          0.00439    62.9    48.9
              C:60307 JACKSON5 161 60966 JACKCO 869.0 1    1324
                Open 60307 JACKSON5 161 60966 JACKCO 869.0 1                          -0.06301  0.00103    32.9    29.6
1359  -3201.0 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          60.8    47.0  0.00432          0.00439    62.9    48.9
              C:60307 JACKSON5 161 60316 TREMVAL5 161 1    1323
                Open 60307 JACKSON5 161 60316 TREMVAL5 161 1                           0.06301 -0.00103   -32.9   -29.6
1361  -3197.5 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          59.2    47.0  0.00381          0.00439    62.9    48.9
              C:60311 MAYFAIR5 161 60316 TREMVAL5 161 1    1332
                Open 60311 MAYFAIR5 161 60316 TREMVAL5 161 1                           0.04529 -0.01267   -82.0   -41.5
1362  -3196.4 L:61948 BYRON  5 161 61906 MAPLE LF 161 1         502.5   372.0  0.04082          0.01203   309.4   271.0
              C:61950 BYRON  3 345 63032 PL VLLY3 345 1    3375
                Open 61950 BYRON  3 345 63032 PL VLLY3 345 1                           0.34015  0.08464   567.6   297.1
1365  -3182.6 L:62935 MAPLELK869.0 63024 MAPLE 1G69.0 1          27.1    24.3  0.00088          0.00098    12.4     9.3
              C:62139 CABLETP869.0 62297 BENTON 869.0 1    1785
                Open 62139 CABLETP869.0 62297 BENTON 869.0 1                          -0.43700  0.00024   -33.5   -34.3
1366  -3181.4 L:62944 GOOSETP869.0 63024 MAPLE 1G69.0 1         -27.1   -24.3 -0.00088         -0.00098   -12.4    -9.3
              C:62139 CABLETP869.0 62297 BENTON 869.0 1    1785
                Open 62139 CABLETP869.0 62297 BENTON 869.0 1                           0.43700  0.00024   -33.5   -34.3
1369  -3174.9 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.1    47.0  0.00445          0.00439    62.9    49.0
              C:34021 LANSINGW 161 69523 GENOA  5 161 1    2728
                Open 34021 LANSINGW 161 69523 GENOA  5 161 1                          -0.02333 -0.00286    75.8    84.9
1370  -3173.0 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          60.9    47.0  0.00439          0.00439    62.9    49.0
              C:34090 ARNOLD1G22.0 34091 ARNOLD 5 161 1    2774
                Open 34090 ARNOLD1G22.0 34091 ARNOLD 5 161 1                           0.00539  0.00000  -369.0  -369.0
1380  -3141.4 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          60.8    47.0  0.00439          0.00439    62.9    49.1
              C:60008 RIVRS78G22.0 60240 RIVRSID7 115 1    2898
                Open 60008 RIVRS78G22.0 60240 RIVRSID7 115 1                           0.00933  0.00000  -227.9  -227.9
1383  -3135.3 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          16.5    13.7  0.00088          0.00089    11.3     8.5
              C:62297 BENTON 869.0 63045 BENTON 4 230 1    3380
                Open 62297 BENTON 869.0 63045 BENTON 4 230 1                          -0.09530  0.00013   -54.4   -54.8
1385  -3127.2 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -20.8   -17.3 -0.00112         -0.00089   -19.8   -17.0
              C:700    1                                  3737
                Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                           0.00234 -0.03964  -143.5   -19.6
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.00081  0.04835   476.6   325.4
                Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                          -0.00182  0.05190   157.6    -4.7
1386  -3125.0 L:60750 OSAKIS 869.0 62820 W UNION869.0 1          40.6    37.0  0.00115          0.00034    26.8    25.7
              C:60156 PYNSVIL7 115 60356 PAYNES 4 230 C1   1069
                Open 60156 PYNSVIL7 115 60356 PAYNES 4 230 C1                         -0.07871 -0.01032  -175.7  -143.4
1387  -3125.0 L:60750 OSAKIS 869.0 62820 W UNION869.0 1          40.6    37.0  0.00115          0.00034    26.8    25.7
              C:60356 PAYNES 4 230 63050 WILLMAR4 230 C1   1365
                Open 60356 PAYNES 4 230 63050 WILLMAR4 230 C1                         -0.07871 -0.01032  -175.7  -143.4
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1389  -3120.8 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          16.4    13.7  0.00086          0.00089    11.3     8.5
              C:62139 CABLETP869.0 62297 BENTON 869.0 1    1785
                Open 62139 CABLETP869.0 62297 BENTON 869.0 1                          -0.15187  0.00024   -33.5   -34.3
1390  -3120.5 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -16.5   -13.7 -0.00089         -0.00089   -14.3   -11.6
              C:60005 MNTCE31G22.0 60151 MNTCELO3 345 1    2895
                Open 60005 MNTCE31G22.0 60151 MNTCELO3 345 1                           0.00375  0.00000  -571.4  -571.4
1392  -3114.8 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          59.3    47.0  0.00396          0.00439    62.9    49.2
              C:60958 T SHAM 869.0 60962 T ALB  869.0 1    1565
                Open 60958 T SHAM 869.0 60962 T ALB  869.0 1                           0.20389 -0.00208   -17.5   -11.0
1394  -3107.2 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -23.9   -19.3 -0.00150         -0.00094   -19.4   -16.5
              C:60265 LOON TP7 115 60830 EASTWD18 115 P1   1275
                Open 60265 LOON TP7 115 60830 EASTWD18 115 P1                          0.02172 -0.02555  -209.2  -129.8
1395  -3103.9 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          66.2    47.0  0.00620          0.00439    62.9    49.3
              C:34018 HAZLTON3 345 34093 ARNOLD 3 345 1      55
                Open 34018 HAZLTON3 345 34093 ARNOLD 3 345 1                           0.00999  0.18131   333.4  -229.4
1396  -3097.7 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          60.6    47.0  0.00439          0.00439    62.9    49.3
              C:34016 EMERY  5 161 34912 EMERYST118.0 1    2723
                Open 34016 EMERY  5 161 34912 EMERYST118.0 1                           0.00912  0.00000  -254.2  -254.2
1398  -3094.9 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          60.1    47.0  0.00423          0.00439    62.9    49.3
              C:60316 TREMVAL5 161 69543 ALMA   5 161 1    3013
                Open 60316 TREMVAL5 161 69543 ALMA   5 161 1                           0.02201 -0.00706  -127.7  -105.9
1402  -3087.3 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          58.9    47.0  0.00385          0.00439    62.9    49.4
              C:34014 ADAMS  5 161 69526 BVR CRK5 161 1    2717
                Open 34014 ADAMS  5 161 69526 BVR CRK5 161 1                          -0.02376  0.02271   169.6    99.5
1405  -3084.4 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          60.5    47.0  0.00439          0.00439    62.9    49.4
              C:67118 LARAM31G24.0 67131 LARAMIE3 345 1    3592
                Open 67118 LARAM31G24.0 67131 LARAMIE3 345 1                           0.00500  0.00000  -475.0  -475.0
1410  -3077.9 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -55.0   -48.0 -0.00227         -0.00216   -53.9   -47.2
              C:34006 LAKEFLD3 345 63875 RAUN   3 345 1    2708
                Open 34006 LAKEFLD3 345 63875 RAUN   3 345 1                          -0.00375  0.03120   298.4   202.4
1411  -3065.4 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          65.7    47.0  0.00610          0.00439    62.9    49.5
              C:34093 ARNOLD 3 345 64352 TIFFIN 3 345 1    2777
                Open 34093 ARNOLD 3 345 64352 TIFFIN 3 345 1                           0.00804  0.21292   346.7  -306.0
1412  -3060.1 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -54.9   -48.0 -0.00225         -0.00216   -53.9   -47.3
              C:705       1                                3739
                Open 60192 BLUE LK3 345 60233 PARKERS3 345 1                          -0.00354  0.01266   -63.9  -102.6
                Open 60192 BLUE LK3 345 60262 EDEN PR3 345 1                          -0.00367  0.01319   283.3   242.9
                Open 60262 EDEN PR3 345 60263 EDEN PR7 115 1                          -0.00069  0.00057   279.5   277.8
1414  -3050.6 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          61.3    47.0  0.00470          0.00439    62.9    49.5
              C:61056 T WESTB869.0 68812 WESTBY  69.0 1    3307
                Open 61056 T WESTB869.0 68812 WESTBY  69.0 1                           0.25150  0.00124    -6.2   -10.0
1415  -3045.4 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          62.5    36.0  0.00870          0.00284    33.0    24.4
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                          -0.04191 -0.13973  -702.5  -277.0
1418  -3033.8 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          59.7    47.0  0.00417          0.00439    62.9    49.6
              C:60952 BANGOR 869.0 60953 WSTSALE869.0 1    1558
                Open 60952 BANGOR 869.0 60953 WSTSALE869.0 1                           0.19760 -0.00109   -16.4   -13.1
1420  -3032.9 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          59.0    47.0  0.00396          0.00439    62.9    49.6
              C:60962 T ALB  869.0 60963 T BRF  869.0 1    1568
                Open 60962 T ALB  869.0 60963 T BRF  869.0 1                           0.20389 -0.00208   -19.1   -12.8
1421  -3031.2 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          59.0    47.0  0.00396          0.00439    62.9    49.6
              C:60963 T BRF  869.0 60995 IRONMDT869.0 1    1569
                Open 60963 T BRF  869.0 60995 IRONMDT869.0 1                           0.20389 -0.00208   -19.1   -12.8
1422  -3028.5 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -58.2   -48.0 -0.00337         -0.00216   -44.9   -38.4
              C:60107 W FARIB7 115 61952 S FARIB5 161 1     955
                Open 60107 W FARIB7 115 61952 S FARIB5 161 1                          -0.08328  0.01457   159.6   115.5
1425  -3027.2 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          59.0    47.0  0.00396          0.00439    62.9    49.6
              C:60995 IRONMDT869.0 68860 BROCKW_869.0 1    3264
                Open 60995 IRONMDT869.0 68860 BROCKW_869.0 1                           0.20389 -0.00208   -19.2   -12.9
1426  -3025.9 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          17.7    13.7  0.00132          0.00089    11.3     8.6
              C:60703 WATKINS869.0 60704 KIMBALL869.0 1    1405
                Open 60703 WATKINS869.0 60704 KIMBALL869.0 1                           0.32182  0.00132    19.9    15.9
1429  -3012.2 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -55.8   -48.0 -0.00259         -0.00216   -48.8   -42.3
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                C:60791 FARIBLT869.0 60794 NRSTRND869.0 P1   1463
                  Open 60791 FARIBLT869.0 60794 NRSTRND869.0 P1                          -0.27260  0.00161    25.9    21.0
1430  -3008.9 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -66.2   -58.0 -0.00273         -0.00273   -59.9   -51.7
                C:34146 OTTUMW1G24.0 34189 OTTUMWA5 161 1    2809
                  Open 34146 OTTUMW1G24.0 34189 OTTUMWA5 161 1                            0.01345  0.00000  -466.3  -466.3
1434  -2985.1 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -17.6   -13.7 -0.00132         -0.00089   -14.3   -11.7
                C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                  Open 60108 WILMART3 345 60192 BLUE LK3 345 1                           -0.00372  0.11317   881.7   543.9
1436  -2977.3 L:60145 FRANKLN7 115 60728 FRANKLN869.0 1          52.6    47.0  0.00187          0.00115    32.4    28.9
                C:60145 FRANKLN7 115 60728 FRANKLN869.0 2    1041
                  Open 60145 FRANKLN7 115 60728 FRANKLN869.0 2                            0.62456  0.00115    32.4    28.9
1437  -2977.3 L:60145 FRANKLN7 115 60728 FRANKLN869.0 2          52.6    47.0  0.00187          0.00115    32.4    28.9
                C:60145 FRANKLN7 115 60728 FRANKLN869.0 1    1040
                  Open 60145 FRANKLN7 115 60728 FRANKLN869.0 1                            0.62456  0.00115    32.4    28.9
1440  -2973.6 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -55.1   -48.0 -0.00239         -0.00216   -53.9   -47.5
                C:34010 HAYWARD5 161 34013 WNBAGOS5 161 1      33
                  Open 34010 HAYWARD5 161 34013 WNBAGOS5 161 1                            0.00688 -0.03350  -177.1   -77.5
1442  -2965.9 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -58.0   -48.0 -0.00337         -0.00216   -44.9   -38.5
                C:61952 S FARIB5 161 61964 OWATNNA5 161 1    1697
                  Open 61952 S FARIB5 161 61964 OWATNNA5 161 1                           -0.08328  0.01457   157.1   113.9
1443  -2964.9 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          60.0    47.0  0.00439          0.00439    62.9    49.9
                C:60108 WILMART3 345  8001 G261-ST 19.5 1    2938
                  Open 60108 WILMART3 345  8001 G261-ST 19.5 1                            0.00890  0.00000  -326.0  -326.0
1444  -2959.8 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          60.0    47.0  0.00439          0.00439    62.9    49.9
                C:67101 ANTELOP3 345 67103 ANTEL31G24.0 1    3585
                  Open 67101 ANTELOP3 345 67103 ANTEL31G24.0 1                            0.00700  0.00000  -417.8  -417.8
1445  -2959.8 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          60.0    47.0  0.00439          0.00439    62.9    49.9
                C:67101 ANTELOP3 345 67107 ANTEL32G24.0 1    3586
                  Open 67101 ANTELOP3 345 67107 ANTEL32G24.0 1                            0.00700  0.00000  -417.8  -417.8
1453  -2943.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -54.2   -48.0 -0.00209         -0.00216   -48.8   -42.4
                C:60217 INVRHLS3 345 60218 INVRHLS7 115 1    1196
                  Open 60217 INVRHLS3 345 60218 INVRHLS7 115 1                           -0.01712 -0.00355   316.1   326.5
1454  -2941.1 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -16.3   -13.7 -0.00088         -0.00089   -14.3   -11.7
                C:60151 MNTCELO3 345 60152 MNTCELO4 230 1    1057
                  Open 60151 MNTCELO3 345 60152 MNTCELO4 230 1                           -0.01146 -0.00097   170.4   173.2
1455  -2937.6 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          59.5    47.0  0.00425          0.00439    62.9    50.0
                C:61906 MAPLE LF 161 61948 BYRON  5 161 1    3372
                  Open 61906 MAPLE LF 161 61948 BYRON  5 161 1                            0.01102 -0.01203  -309.4  -274.1
1456  -2937.2 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          58.6    47.0  0.00396          0.00439    62.9    50.0
                C:PRI-BYN/RRK3                               3646
                  Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                           -0.00560  0.07639   767.2   542.8
                  Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                            0.00010 -0.01725   152.8   203.4
1457  -2934.6 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -21.8   -19.3 -0.00085         -0.00094   -19.4   -16.6
                C:34301 NEWPRAG869.0 60936 NPRAG2T869.0 1     477
                  Open 34301 NEWPRAG869.0 60936 NPRAG2T869.0 1                           -0.27659 -0.00032     8.7     9.6
1458  -2929.9 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          60.8    47.0  0.00470          0.00439    62.9    50.1
                C:60944 VIROQUA869.0 68812 WESTBY  69.0 1    3226
                  Open 60944 VIROQUA869.0 68812 WESTBY  69.0 1                           -0.25150 -0.00124     8.5    12.1
1459  -2927.5 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          58.6    47.0  0.00396          0.00439    62.9    50.1
                C:60105 PR ISLD3 345 61950 BYRON  3 345 1     951
                  Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                           -0.00564  0.07639   767.2   543.6
1461  -2925.0 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          59.8    47.0  0.00439          0.00439    62.9    50.1
                C:67105 LELANDO3 345 67111 LELAN32G20.0 1    3588
                  Open 67105 LELANDO3 345 67111 LELAN32G20.0 1                            0.00701  0.00000  -438.9  -438.9
1462  -2918.7 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          59.8    47.0  0.00439          0.00439    62.9    50.1
                C:67315 COYOTE1G24.0 67316 COYOTE 3 345 1    3613
                  Open 67315 COYOTE1G24.0 67316 COYOTE 3 345 1                            0.00723  0.00000  -429.1  -429.1
1463  -2911.8 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -16.2   -13.7 -0.00086         -0.00089   -14.3   -11.7
                C:62122 WESTEND869.0 62125 BECKER 869.0 1    1762
                  Open 62122 WESTEND869.0 62125 BECKER 869.0 1                           -0.15187 -0.00024    12.2    12.9
1465  -2892.5 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          20.9    19.3  0.00056          0.00055    23.3    21.7
                C:60748 WESTPRT869.0 60749 DGLAS C869.0 1    1428
                  Open 60748 WESTPRT869.0 60749 DGLAS C869.0 1                            0.12264  0.00007   -19.5   -19.7
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1467  -2877.0 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -22.0   -19.3 -0.00093         -0.00094   -19.4   -16.7
              C:60193 BLUE LK7 115 60215 HYLNDLK7 115 1    1129
                Open 60193 BLUE LK7 115 60215 HYLNDLK7 115 1                          -0.01490 -0.00067   172.8   174.7
1470  -2857.3 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          58.3    47.0  0.00396          0.00439    62.9    50.4
              C:60966 JACKCO 869.0 68860 BROCKW_869.0 1    3241
                Open 60966 JACKCO 869.0 68860 BROCKW_869.0 1                          -0.20389  0.00208    22.5    16.5
1471  -2857.1 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -53.7   -48.0 -0.00199         -0.00216   -48.8   -42.6
              C:60104 CANNFLS7 115 60801 CNFLSTR869.0 1     946
                Open 60104 CANNFLS7 115 60801 CNFLSTR869.0 1                          -0.14830 -0.00113    33.2    36.4
1474  -2840.0 L:62429 PNNCKTP869.0 66298 GRANITF869.0 1         -26.7   -24.3 -0.00085         -0.00071   -15.7   -13.7
              C:500                                        3718
                Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                           0.01399 -0.01028  -216.5  -187.3
                Open 62427 WILLMAR869.0 63050 WILLMAR4 230 1                           0.20642  0.00004   -38.4   -38.5
1475  -2834.3 L:34653 CRESTN8_69.0 34654 ECRESTP869.0 1         -43.9   -35.0 -0.00315         -0.00158    -9.4    -5.0
              C:34588 SLAKEN 869.0 34592 SLAKES 869.0 1     690
                Open 34588 SLAKEN 869.0 34592 SLAKES 869.0 1                           0.57545 -0.00273   -59.9   -52.2
1477  -2830.4 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          59.4    47.0  0.00439          0.00439    62.9    50.5
              C:63314 BIGSTON4 230 63315 BIGSTN1G24.0 1    3458
                Open 63314 BIGSTON4 230 63315 BIGSTN1G24.0 1                           0.00749  0.00000  -466.2  -466.2
1479  -2825.7 L:61721 ETCO   7 115 61722 FORBES 7 115 1        -105.1   -98.0 -0.00252         -0.00176   -94.4   -89.4
              C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          -0.01190  0.06362   901.3   721.5
1480  -2824.3 L:62935 MAPLELK869.0 63024 MAPLE 1G69.0 1          27.0    24.3  0.00095          0.00098    12.4     9.7
              C:62297 BENTON 869.0 63045 BENTON 4 230 1    3380
                Open 62297 BENTON 869.0 63045 BENTON 4 230 1                          -0.26741  0.00013   -54.4   -54.7
1482  -2823.2 L:62944 GOOSETP869.0 63024 MAPLE 1G69.0 1         -27.0   -24.3 -0.00095         -0.00098   -12.4    -9.7
              C:62297 BENTON 869.0 63045 BENTON 4 230 1    3380
                Open 62297 BENTON 869.0 63045 BENTON 4 230 1                           0.26741  0.00013   -54.4   -54.7
1483  -2822.8 L:34138 DUNDEE 869.0 34521 GRELYTP869.0 1          42.2    24.0  0.00645          0.00309    22.1    13.3
              C:34129 LIBERTY5 161 34135 DUNDEE 5 161 1     234
                Open 34129 LIBERTY5 161 34135 DUNDEE 5 161 1                          -0.14073 -0.02387  -143.2   -75.8
1486  -2811.7 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -55.3   -48.0 -0.00259         -0.00216   -48.8   -42.7
              C:60794 NRSTRND869.0 62389 KENYON 869.0 1    3143
                Open 60794 NRSTRND869.0 62389 KENYON 869.0 1                          -0.27260  0.00161    24.0    19.5
1487  -2809.8 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          17.2    13.7  0.00124          0.00089    11.3     8.8
              C:60156 PYNSVIL7 115 60356 PAYNES 4 230 C1   1069
                Open 60156 PYNSVIL7 115 60356 PAYNES 4 230 C1                         -0.03360 -0.01032  -175.7  -146.7
1488  -2809.8 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          17.2    13.7  0.00124          0.00089    11.3     8.8
              C:60356 PAYNES 4 230 63050 WILLMAR4 230 C1   1365
                Open 60356 PAYNES 4 230 63050 WILLMAR4 230 C1                         -0.03360 -0.01032  -175.7  -146.7
1489  -2801.6 L:60208 EDINA  7 115 60263 EDEN PR7 115 1        -336.5  -318.0 -0.00659         -0.00290  -254.6  -246.4
              C:PKL-CDR/BCR7                               3663
                Close 60181 ALDRICH7 115 60182 ALDRICH7 115 1
                Open 60234 PARKERS7 115 60346 CEDARLK7 115 P1                         -0.42187 -0.00000   116.2   116.2
                Open 60234 PARKERS7 115 60259 BASCRK 7 115 1                          -0.18917 -0.00000   173.9   173.9
1492  -2792.1 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -19.8   -17.3 -0.00089
                Base Case
1496  -2741.7 L:60264 LOON LK7 115 61976 LOON LK869.0 1          83.5    75.0  0.00312          0.00538    85.3    70.5
              C:34006 LAKEFLD3 345 60331 LKFLDXL3 345 1      21
                Open 34006 LAKEFLD3 345 60331 LKFLDXL3 345 1                          -0.01652  0.13720   106.4  -269.8
1497  -2739.0 L:34384 MCARMOR869.0 34396 EMERY N869.0 1         -53.5   -51.0 -0.00090         -0.00199   -43.6   -38.1
              C:34380 LMCK E 869.0 34390 MCNWCSS869.0 1     535
                Open 34380 LMCK E 869.0 34390 MCNWCSS869.0 1                          -0.33663 -0.00326    29.4    38.3
1498  -2738.1 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         325.3   181.0  0.05270          0.04429   266.9   145.6
              C:34016 EMERY  5 161 64252 FLOYD  5 161 1    2719
                Open 34016 EMERY  5 161 64252 FLOYD  5 161 1                           0.24681  0.03409   236.6   143.2
1499  -2726.3 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -53.9   -48.0 -0.00216
                Base Case
1500  -2715.1 L:60809 SJA SWS869.0 62805 STJAMES869.0 1         -59.6   -36.0 -0.00870         -0.00284   -30.2   -22.5
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                           0.04191 -0.13973  -702.5  -323.2
1501  -2709.8 L:60809 SJA SWS869.0 60709 STJMSMU869.0 1          59.6    36.0  0.00870          0.00284    30.1    22.4
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
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                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                          -0.04191 -0.13973  -702.5  -323.9
1503  -2707.7 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -55.0   -48.0 -0.00259         -0.00216   -48.8   -42.9
              C:60797 KENYNTP869.0 62389 KENYON 869.0 1    3145
                Open 60797 KENYNTP869.0 62389 KENYON 869.0 1                           0.27260 -0.00161   -23.0   -18.6
1505  -2683.8 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -16.3   -13.7 -0.00097         -0.00089   -14.3   -11.9
              C:60652 CROWRV 869.0 62931 DELANO 869.0 1    1379
                Open 60652 CROWRV 869.0 62931 DELANO 869.0 1                          -0.07959  0.00099    24.7    22.0
1506  -2680.4 L:60310 MONROCO5 161 60949 MONROCO869.0 1          80.2    70.0  0.00381          0.00246    66.3    59.7
              C:39244 ARP 345  345 60304 EAU CL 3 345 1    2888
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.02008 -0.06704  -692.1  -512.4
1507  -2679.6 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          58.8    47.0  0.00439          0.00439    62.9    51.2
              C:63000 COAL 41G22.0 63041 COAL CR4 230 1    3396
                Open 63000 COAL 41G22.0 63041 COAL CR4 230 1                           0.00722  0.00000  -575.2  -575.2
1508  -2678.9 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          58.8    47.0  0.00439          0.00439    62.9    51.2
              C:63001 COAL 42G22.0 63041 COAL CR4 230 1    3397
                Open 63001 COAL 42G22.0 63041 COAL CR4 230 1                           0.00722  0.00000  -575.5  -575.5
1509  -2677.7 L:34138 DUNDEE 869.0 34543 DUNDEE2Y 161 1         -79.7   -59.0 -0.00772         -0.00169   -43.5   -39.0
              C:34129 LIBERTY5 161 34135 DUNDEE 5 161 1     234
                Open 34129 LIBERTY5 161 34135 DUNDEE 5 161 1                           0.25228 -0.02387  -143.2   -79.3
1510  -2672.8 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          57.6    47.0  0.00396          0.00439    62.9    51.2
              C:60309 MRSHLND5 161 69543 ALMA   5 161 1    3011
                Open 60309 MRSHLND5 161 69543 ALMA   5 161 1                           0.03290 -0.01291  -161.6  -127.1
1511  -2670.0 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -363.4  -318.0 -0.01702         -0.01397  -311.5  -274.2
              C:60156 PYNSVIL7 115 60356 PAYNES 4 230 C1   1069
                Open 60156 PYNSVIL7 115 60356 PAYNES 4 230 C1                          0.29555 -0.01032  -175.7  -148.1
1512  -2670.0 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -363.4  -318.0 -0.01702         -0.01397  -311.5  -274.2
              C:60356 PAYNES 4 230 63050 WILLMAR4 230 C1   1365
                Open 60356 PAYNES 4 230 63050 WILLMAR4 230 C1                          0.29555 -0.01032  -175.7  -148.1
1513  -2656.3 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          58.7    47.0  0.00439          0.00439    62.9    51.3
              C:60006 KING 31G20.0 60186 AS KING3 345 1    2896
                Open 60006 KING 31G20.0 60186 AS KING3 345 1                           0.00922  0.00000  -461.4  -461.4
1514  -2649.5 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -16.1   -13.7 -0.00089         -0.00089   -14.3   -12.0
              C:62984 HUTCHPT869.0 62988 HTCHHTI869.0 1    2026
                Open 62984 HUTCHPT869.0 62988 HTCHHTI869.0 1                          -0.08394  0.00000    20.5    20.5
1515  -2640.1 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -52.5   -48.0 -0.00170         -0.00216   -53.9   -48.2
              C:60793 MORISTN869.0 62875 WARSAW 869.0 1    3142
                Open 60793 MORISTN869.0 62875 WARSAW 869.0 1                           0.14421  0.00315     9.6     1.3
1516  -2633.8 L:34138 DUNDEE 869.0 34521 GRELYTP869.0 1          34.9    24.0  0.00415          0.00309    22.1    13.9
              C:34138 DUNDEE 869.0 34490 MASONVL869.0 1     249
                Open 34138 DUNDEE 869.0 34490 MASONVL869.0 1                           0.55323  0.00192    23.3    18.2
1520  -2625.1 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -71.1   -58.0 -0.00500         -0.00273   -59.9   -52.8
              C:34064 ANITA  869.0 34524 ANITA  Y 161 1     141
                Open 34064 ANITA  869.0 34524 ANITA  Y 161 1                           0.57650 -0.00393   -19.4    -9.1
1521  -2625.1 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -71.1   -58.0 -0.00500         -0.00273   -59.9   -52.8
              C:34048 ANITA  5 161 34524 ANITA  Y 161 1     111
                Open 34048 ANITA  5 161 34524 ANITA  Y 161 1                          -0.57650  0.00393    19.4     9.1
1522  -2624.7 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -53.7   -48.0 -0.00216         -0.00216   -48.8   -43.1
              C:60002 SHERC33G26.0 60160 SHERCO 3 345 1    2892
                Open 60002 SHERC33G26.0 60160 SHERCO 3 345 1                           0.00560  0.00000  -875.5  -875.5
1523  -2621.8 L:60145 FRANKLN7 115 60728 FRANKLN869.0 2          51.2    47.0  0.00158          0.00115    32.4    29.3
              C:795                                        3765
                Open 60150 MNVLTAP4 230 66550 GRANITF4 230 1                          -0.02609 -0.01397  -311.5  -274.9
                Open 60148 MINVALY7 115 60149 MINVALT4 230 C1                          0.03519  0.00290    18.2    10.6
                Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                          -0.01305  0.00000     0.0     0.0
                Open 60149 MINVALT4 230 60150 MNVLTAP4 230 1     NA
                Open 60742 PANTHER869.0 63054 PANTHER4 230 1                          -0.25005  0.00014   -40.1   -40.4
1524  -2621.8 L:60145 FRANKLN7 115 60728 FRANKLN869.0 1          51.2    47.0  0.00158          0.00115    32.4    29.3
              C:795                                        3765
                Open 60150 MNVLTAP4 230 66550 GRANITF4 230 1                          -0.02609 -0.01397  -311.5  -274.9
                Open 60148 MINVALY7 115 60149 MINVALT4 230 C1                          0.03519  0.00290    18.2    10.6
                Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                          -0.01305  0.00000     0.0     0.0
                Open 60149 MINVALT4 230 60150 MNVLTAP4 230 1     NA
                Open 60742 PANTHER869.0 63054 PANTHER4 230 1                          -0.25005  0.00014   -40.1   -40.4
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1525  -2616.3 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          58.5    47.0  0.00439          0.00439    62.9    51.4
              C:34021 LANSINGW 161 34024 LANS5 4G22.0 1    2727
                Open 34021 LANSINGW 161 34024 LANS5 4G22.0 1                          0.02718  0.00000  -163.0  -163.0
1526  -2613.3 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -69.2   -58.0 -0.00428         -0.00273   -59.9   -52.8
              C:34654 ECRESTP869.0 66569 CRESTON869.0 1     752
                Open 34654 ECRESTP869.0 66569 CRESTON869.0 1                          0.97751 -0.00158    -9.4    -5.3
1527  -2613.3 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -16.0   -13.7 -0.00089         -0.00089   -14.3   -12.0
              C:63031 BUNKER 3 345 63046 BUNKER 4 230 1    2035
                Open 63031 BUNKER 3 345 63046 BUNKER 4 230 1                         -0.01372 -0.00037   122.3   123.3
1528  -2612.6 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -69.2   -58.0 -0.00428         -0.00273   -59.9   -52.8
              C:34653 CRESTN8_69.0 34654 ECRESTP869.0 1     751
                Open 34653 CRESTN8_69.0 34654 ECRESTP869.0 1                          0.97751 -0.00158    -9.4    -5.3
1529  -2609.5 L:60107 W FARIB7 115 61952 S FARIB5 161 1         205.7   173.0  0.01253          0.01457   159.6   121.6
              C:61948 BYRON  5 161 61950 BYRON  3 345 1    1695
                Open 61948 BYRON  5 161 61950 BYRON  3 345 1                         -0.24796  0.00825  -185.7  -207.2
1530  -2607.3 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          58.3    47.0  0.00435          0.00439    62.9    51.5
              C:60308 LACROSS5 161 69535 LAC TAP5 161 1    3009
                Open 60308 LACROSS5 161 69535 LAC TAP5 161 1                          0.04325 -0.00093  -105.8  -103.3
1531  -2602.5 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          16.1    13.7  0.00090          0.00089    11.3     9.0
              C:665                                        3727
                Open 60152 MNTCELO4 230 63043 ELK RIV4 230 1                          0.01072  0.00329   196.5   187.9
                Open 62134 ELKR14S869.0 63043 ELK RIV4 230 1                         -0.02880  0.00086   -92.5   -94.8
1532  -2599.0 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          57.8    47.0  0.00417          0.00439    62.9    51.5
              C:875       2                                3778
                Open 60308 LACROSS5 161 69535 LAC TAP5 161 1                          0.03937 -0.00093  -105.8  -103.3
                Open 60309 MRSHLND5 161 69535 LAC TAP5 161 1                         -0.01285  0.01384    75.5    39.6
                Open 69523 GENOA  5 161 69535 LAC TAP5 161 1                          0.03662  0.00000     1.9     1.9
1533  -2590.1 L:60934 WATOWAN869.0 60284 WATOWAN7 115 P1        -85.7   -70.0 -0.00607          0.00252   -42.5   -49.0
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                          0.06153 -0.13973  -702.5  -340.6
1534  -2570.4 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -57.8   -48.0 -0.00382         -0.00216   -44.9   -39.4
              C:61948 BYRON  5 161 61964 OWATNNA5 161 1    1696
                Open 61948 BYRON  5 161 61964 OWATNNA5 161 1                          0.08197 -0.02028  -157.4  -105.3
1535  -2570.4 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          57.6    47.0  0.00411          0.00439    62.9    51.6
              C:880                                        3779
                Open 69523 GENOA  5 161 69527 HARMONY5 161 1                          0.03535 -0.01092   -67.9   -39.8
                Open 34021 LANSINGW 161 69523 GENOA  5 161 1                         -0.03879 -0.00286    75.8    83.1
1539  -2550.1 L:34138 DUNDEE 869.0 34521 GRELYTP869.0 1          34.6    24.0  0.00415          0.00309    22.1    14.2
              C:34490 MASONVL869.0 34491 PRAIRI_869.0 1     652
                Open 34490 MASONVL869.0 34491 PRAIRI_869.0 1                          0.55323  0.00192    22.7    17.8
1540  -2549.5 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -17.1   -13.7 -0.00132         -0.00089   -14.3   -12.1
              C:60712 ANNDALE869.0 60765 MAPLELK869.0 1    1411
                Open 60712 ANNDALE869.0 60765 MAPLELK869.0 1                         -0.32182  0.00132     8.4     5.1
1541  -2544.6 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -57.7   -48.0 -0.00382         -0.00216   -44.9   -39.4
              C:BYN-WOW/KAN5                               3653
                Open 61948 BYRON  5 161 61964 OWATNNA5 161 1                          0.08197 -0.02028  -157.4  -105.8
                Open 60799 KASSON 869.0 61161 BYRON  869.0 1                          0.00368  0.00000    26.8    26.8
1542  -2526.5 L:60749 DGLAS C869.0 60750 OSAKIS 869.0 1          39.1    37.0  0.00081          0.00034    29.0    28.2
              C:63050 WILLMAR4 230 66550 GRANITF4 230 1    2051
                Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                         -0.04635 -0.01028  -216.5  -190.6
1543  -2526.4 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -21.5   -19.3 -0.00085         -0.00094   -19.4   -17.0
              C:34299 WASECAJ869.0 62876 FRLK TP869.0 1     474
                Open 34299 WASECAJ869.0 62876 FRLK TP869.0 1                         -0.27659 -0.00032     7.4     8.2
1544  -2507.6 L:34590 GRDRVRE869.0 34643 GRRIVER869.0 1          20.3    12.0  0.00331          0.00108     7.4     4.7
              C:34650 ARISTAP869.0 34653 CRESTN8_69.0 1     749
                Open 34650 ARISTAP869.0 34653 CRESTN8_69.0 1                         -0.64584 -0.00345   -20.0   -11.3
1546  -2483.2 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -21.6   -19.3 -0.00092         -0.00094   -19.4   -17.1
              C:EDP-WSG/WSG7                               3670
                Open 60256 WSTGATE7 115 60263 EDEN PR7 115 1                          0.00964  0.00090  -113.6  -115.8
                Open 60256 WSTGATE7 115 60263 EDEN PR7 115 2                          0.00964  0.00090  -113.6  -115.8
1547  -2482.9 L:61934 RUTLAND 69.0 61942 10TH STR69.0 1         -68.4   -36.0 -0.01303         -0.00381   -23.7   -14.2
              C:34008 FOX LK 5 161 61932 RUTLAND5 161 1      28
                Open 34008 FOX LK 5 161 61932 RUTLAND5 161 1                         -0.19162  0.04814   233.2   113.7
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1548  -2479.5 L:60208 EDINA  7 115 60263 EDEN PR7 115 1        -353.0  -318.0 -0.01412         -0.00290  -254.6  -247.4
              C:700    1                                   3737
                Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                          0.12861 -0.03964  -143.5   -45.3
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.18623  0.04835   476.6   356.7
                Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                          0.05561  0.05190   157.6    28.9
1549  -2477.6 L:34590 GRDRVRE869.0 34643 GRRIVER869.0 1          20.2    12.0  0.00331          0.00108     7.4     4.7
              C:34648 LENXTAP869.0 34650 ARISTAP869.0 1     747
                Open 34648 LENXTAP869.0 34650 ARISTAP869.0 1                         -0.64584 -0.00345   -19.8   -11.3
1550  -2477.3 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          59.0    47.0  0.00483          0.00439    62.9    52.0
              C:60302 COULEE 5 161 69523 GENOA  5 161 1    3006
                Open 60302 COULEE 5 161 69523 GENOA  5 161 1                          0.04435  0.00993   -89.0  -113.6
1551  -2460.7 L:60264 LOON LK7 115 61976 LOON LK869.0 1          90.0    75.0  0.00610          0.00538    85.3    72.1
              C:BLL-PRI/IVH3                              3638
                Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                         -0.00950 -0.03964  -143.5   -46.0
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          0.00701  0.04835   476.6   357.6
1552  -2453.5 L:34590 GRDRVRE869.0 34643 GRRIVER869.0 1          20.1    12.0  0.00331          0.00108     7.4     4.7
              C:34647 DIAGONL869.0 34648 LENXTAP869.0 1     745
                Open 34647 DIAGONL869.0 34648 LENXTAP869.0 1                         -0.64584 -0.00345   -19.7   -11.3
1553  -2445.6 L:60264 LOON LK7 115 61976 LOON LK869.0 1          88.2    75.0  0.00538          0.00538    85.3    72.1
              C:34300 MONTGMY869.0 34310 MONTGG1913.8 1    2834
                Open 34300 MONTGMY869.0 34310 MONTGG1913.8 1                         -0.13637  0.00000   -21.0   -21.0
1554  -2434.8 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          57.7    47.0  0.00439          0.00439    62.9    52.2
              C:60001 SHERC32G24.0 60160 SHERCO 3 345 1    2891
                Open 60001 SHERC32G24.0 60160 SHERCO 3 345 1                          0.00919  0.00000  -568.8  -568.8
1555  -2427.7 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          57.7    47.0  0.00439          0.00439    62.9    52.3
              C:60005 MNTCE31G22.0 60151 MNTCELO3 345 1    2895
                Open 60005 MNTCE31G22.0 60151 MNTCELO3 345 1                          0.00920  0.00000  -571.4  -571.4
1556  -2425.4 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          57.6    47.0  0.00439          0.00439    62.9    52.3
              C:60004 PR IS32G20.0 60105 PR ISLD3 345 1    2894
                Open 60004 PR IS32G20.0 60105 PR ISLD3 345 1                          0.01009  0.00000  -522.2  -522.2
1557  -2423.1 L:60949 MONROCO869.0 68847 SPARTA  69.0 1          57.6    47.0  0.00439          0.00439    62.9    52.3
              C:60003 PR IS31G20.0 60105 PR ISLD3 345 1    2893
                Open 60003 PR IS31G20.0 60105 PR ISLD3 345 1                          0.01009  0.00000  -523.2  -523.2
1559  -2410.8 L:60264 LOON LK7 115 61976 LOON LK869.0 1          88.6    75.0  0.00565          0.00538    85.3    72.3
              C:60110 WILMART7 115 60194 CARVRCO7 115 1     964
                Open 60110 WILMART7 115 60194 CARVRCO7 115 1                          0.02979  0.00886   111.2    89.8
1560  -2410.7*L:60949 MONROCO869.0 68847 SPARTA  69.0 1          57.6    47.0  0.00439          0.00439    62.9    52.3
              C:60000 SHERC31G24.0 60160 SHERCO 3 345 1    2890
                Open 60000 SHERC31G24.0 60160 SHERCO 3 345 1                          0.00919  0.00000  -580.3  -580.3
1561  -2393.1 L:34590 GRDRVRE869.0 34643 GRRIVER869.0 1          19.9    12.0  0.00331          0.00108     7.4     4.8
              C:34176 MT AYR 869.0 34647 DIAGONL869.0 1     279
                Open 34176 MT AYR 869.0 34647 DIAGONL869.0 1                         -0.64584 -0.00345   -19.4   -11.1
1564  -2383.4 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -52.1   -48.0 -0.00170         -0.00216   -53.9   -48.7
              C:60793 MORISTN869.0 60805 WATRVIL869.0 1    1464
                Open 60793 MORISTN869.0 60805 WATRVIL869.0 1                         -0.14421 -0.00315   -12.6    -5.1
1565  -2381.0 L:60264 LOON LK7 115 61976 LOON LK869.0 1          88.3    75.0  0.00560          0.00538    85.3    72.5
              C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00336  0.06362   901.3   749.8
1566  -2380.1 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -22.8   -12.0 -0.00453         -0.00453   -17.8    -7.0
              C:34146 OTTUMW1G24.0 34189 OTTUMWA5 161 1    2809
                Open 34146 OTTUMW1G24.0 34189 OTTUMWA5 161 1                          0.01071  0.00000  -466.3  -466.3
1567  -2372.2 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         228.3   167.0  0.02582          0.03042   207.8   135.7
              C:34036 ROCK CK3 345 36382 QUAD ;   345 1    2734
                Open 34036 ROCK CK3 345 36382 QUAD ;   345 1                         -0.08417  0.05461  -242.5  -372.0
1570  -2349.4 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -21.4   -19.3 -0.00088         -0.00094   -19.4   -17.2
              C:60244 SCOTTCO7 115 60890 SCOTTCO869.0 1    1248
                Open 60244 SCOTTCO7 115 60890 SCOTTCO869.0 1                         -0.07953 -0.00081    24.6    26.5
1571  -2344.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -54.1   -48.0 -0.00259         -0.00216   -48.8   -43.7
              C:60796 KENYON 869.0 60797 KENYNTP869.0 1    1466
                Open 60796 KENYON 869.0 60797 KENYNTP869.0 1                          0.27260 -0.00161   -19.5   -15.8
1572  -2338.9 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -52.8   -48.0 -0.00205         -0.00216   -53.9   -48.8
              C:60823 REDWING869.0 60824 FRONTNC869.0 1    1481
                Open 60823 REDWING869.0 60824 FRONTNC869.0 1                          0.02975  0.00360    36.5    28.1
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1574  -2332.1 L:60264 LOON LK7 115 61976 LOON LK869.0 1          87.7    75.0  0.00547          0.00538    85.3    72.7
              C:ASK-RRK/ECL3                                  3642
                Open 60186 AS KING3 345 60236 REDROCK3 345 1                           0.00103 -0.01969   140.3   186.2
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.00508  0.06362   901.3   752.9
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.00329 -0.06704  -692.1  -535.8
1575  -2330.2 L:60264 LOON LK7 115 61976 LOON LK869.0 1          89.3    75.0  0.00615          0.00538    85.3    72.8
              C:700    1                                      3737
                Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                          -0.00980 -0.03964  -143.5   -51.2
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                           0.00447  0.04835   476.6   363.9
                Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                           0.00313  0.05190   157.6    36.7
1578  -2319.7 L:60170 MARSHAL7 115 60171 LYON CO7 115 1        -145.4  -127.9 -0.00754         -0.00474  -109.8   -98.8
              C:60148 MINVALY7 115 60171 LYON CO7 115 1    1049
                Open 60148 MINVALY7 115 60171 LYON CO7 115 1                           0.41687 -0.00670   -85.5   -69.9
1579  -2315.2 L:34138 DUNDEE 869.0 34521 GRELYTP869.0 1          33.6    24.0  0.00415          0.00309    22.1    14.9
              C:34491 PRAIRI_869.0 34492 MANCIND869.0 1     653
                Open 34491 PRAIRI_869.0 34492 MANCIND869.0 1                           0.55323  0.00192    20.9    16.5
1580  -2307.8 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -302.6  -181.0 -0.05270         -0.04429  -244.2  -142.0
              C:34016 EMERY  5 161 64252 FLOYD  5 161 1    2719
                Open 34016 EMERY  5 161 64252 FLOYD  5 161 1                          -0.24681  0.03409   236.6   157.9
1581  -2304.5 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         309.7   181.0  0.05585          0.04429   266.9   164.9
              C:34018 HAZLTON3 345 60102 ADAMS  3 345 1      56
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                          -0.08140 -0.14203  -525.7  -198.4
1582  -2301.0 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         274.2   181.0  0.04048          0.04429   266.9   165.0
              C:34087 DYSART 5 161 64269 WASHBRN5 161 1    2772
                Open 34087 DYSART 5 161 64269 WASHBRN5 161 1                           0.17382 -0.02187    41.7    92.0
1583  -2296.0 L:62935 MAPLELK869.0 63024 MAPLE 1G69.0 1          26.5    24.3  0.00097          0.00098    12.4    10.2
              C:680                                           3732
                Open 60143 BENTON 7 115 63045 BENTON 4 230 P2                          0.00508  0.00362   -87.6   -95.9
                Open 62297 BENTON 869.0 63045 BENTON 4 230 1                          -0.26713  0.00013   -54.4   -54.7
1584  -2296.0 L:62935 MAPLELK869.0 63024 MAPLE 1G69.0 1          26.5    24.3  0.00097          0.00098    12.4    10.2
              C:680    P2                                     3733
                Open 60143 BENTON 7 115 63045 BENTON 4 230 P2                          0.00508  0.00362   -87.6   -95.9
                Open 62297 BENTON 869.0 63045 BENTON 4 230 1                          -0.26713  0.00013   -54.4   -54.7
1585  -2295.7 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         309.1   181.0  0.05581          0.04429   266.9   165.2
              C:825                                           3771
                Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                           0.00236 -0.09714  -545.7  -322.7
                Open 34014 ADAMS  5 161 60102 ADAMS  3 345 1                           0.00000  0.02245    -2.8   -54.4
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                          -0.08277 -0.14203  -525.7  -199.6
1586  -2295.0 L:62944 GOOSETP869.0 63024 MAPLE 1G69.0 1         -26.5   -24.3 -0.00097         -0.00098   -12.4   -10.2
              C:680    P2                                     3733
                Open 60143 BENTON 7 115 63045 BENTON 4 230 P2                         -0.00508  0.00362   -87.6   -95.9
                Open 62297 BENTON 869.0 63045 BENTON 4 230 1                           0.26713  0.00013   -54.4   -54.7
1587  -2295.0 L:62944 GOOSETP869.0 63024 MAPLE 1G69.0 1         -26.5   -24.3 -0.00097         -0.00098   -12.4   -10.2
              C:680                                           3732
                Open 60143 BENTON 7 115 63045 BENTON 4 230 P2                         -0.00508  0.00362   -87.6   -95.9
                Open 62297 BENTON 869.0 63045 BENTON 4 230 1                           0.26713  0.00013   -54.4   -54.7
1589  -2286.6 L:34061 BNE JCT5 161 34076 BNE JCT7 115 3          65.5    45.0  0.00896          0.00441    32.2    22.1
              C:34061 BNE JCT5 161 34076 BNE JCT7 115 2     137
                Open 34061 BNE JCT5 161 34076 BNE JCT7 115 2                           0.68381  0.00666    48.7    33.4
1590  -2279.7 L:60264 LOON LK7 115 61976 LOON LK869.0 1          88.8    75.0  0.00604          0.00538    85.3    73.0
              C:34010 HAYWARD5 161 34013 WNBAGOS5 161 1      33
                Open 34010 HAYWARD5 161 34013 WNBAGOS5 161 1                          -0.01957 -0.03350  -177.1  -100.7
1591  -2276.0 L:60264 LOON LK7 115 61976 LOON LK869.0 1          86.8    75.0  0.00518          0.00538    85.3    73.0
              C:770                                           3761
                Open 60109 WILMART5 161 60110 WILMART7 115 1                          -0.02390  0.00863   -61.8   -81.5
                Open 60109 WILMART5 161 60120 BLUEETA5 161 1     NA
                Open 34009 WINBAGO5 161 60120 BLUEETA5 161 1                           0.00165  0.00000     2.3     2.3
1592  -2275.3 L:60264 LOON LK7 115 61976 LOON LK869.0 1          86.8    75.0  0.00518          0.00538    85.3    73.1
              C:60109 WILMART5 161 60110 WILMART7 115 1     960
                Open 60109 WILMART5 161 60110 WILMART7 115 1                          -0.02390  0.00863   -61.8   -81.5
1593  -2275.1 L:60264 LOON LK7 115 61976 LOON LK869.0 1          86.8    75.0  0.00518          0.00538    85.3    73.1
              C:60109 WILMART5 161 60120 BLUEETA5 161 1     961
                Open 60109 WILMART5 161 60120 BLUEETA5 161 1                           0.02390 -0.00863    61.8    81.4
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1595  -2273.6 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -15.8   -13.7 -0.00093         -0.00089   -14.3   -12.3
              C:60211 GLESNLK7 115 62924 MEDINA 7 115 1    1186
                Open 60211 GLESNLK7 115 62924 MEDINA 7 115 1                          0.02696 -0.00139   -54.6   -51.5
1596  -2270.5 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -15.7   -13.7 -0.00088         -0.00089   -14.3   -12.3
              C:62134 ELKR14S869.0 63043 ELK RIV4 230 2    1780
                Open 62134 ELKR14S869.0 63043 ELK RIV4 230 2                          0.02479  0.00051   -54.7   -55.9
1597  -2264.5 L:60264 LOON LK7 115 61976 LOON LK869.0 1          86.7    75.0  0.00518          0.00538    85.3    73.1
              C:34009 WINBAGO5 161 60120 BLUEETA5 161 1      31
                Open 34009 WINBAGO5 161 60120 BLUEETA5 161 1                         -0.02390  0.00863   -59.5   -79.0
1598  -2258.4 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         287.3   181.0  0.04707          0.04429   266.9   166.9
              C:34072 FRNKLIN7 115 34077 IA FALS7 115 1     155
                Open 34072 FRNKLIN7 115 34077 IA FALS7 115 1                          0.22419  0.01241    91.0    62.9
1599  -2258.4 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         287.3   181.0  0.04707          0.04429   266.9   166.9
              C:34072 FRNKLIN7 115 34571 FRNKLN_Y 161 1     156
                Open 34072 FRNKLIN7 115 34571 FRNKLN_Y 161 1                         -0.22419 -0.01241   -91.0   -62.9
1600  -2258.4 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         287.3   181.0  0.04707          0.04429   266.9   166.9
              C:34571 FRNKLN_Y 161 64239 FRANKLN5 161 1    2856
                Open 34571 FRNKLN_Y 161 64239 FRANKLN5 161 1                         -0.22419 -0.01241   -91.0   -62.9
1601  -2248.6 L:60264 LOON LK7 115 61976 LOON LK869.0 1          87.3    75.0  0.00546          0.00538    85.3    73.2
              C:050    2                                   3716
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00474  0.06362   901.3   758.2
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          0.00330 -0.06704  -692.1  -541.4
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                         -0.00000 -0.00175    77.5    81.4
1602  -2244.7 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          16.4    13.7  0.00122          0.00089    11.3     9.3
              C:500                                       3718
                Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                         -0.03165 -0.01028  -216.5  -193.5
                Open 62427 WILLMAR869.0 63050 WILLMAR4 230 1                          0.04414  0.00004   -38.4   -38.5
1603  -2239.9 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -49.5   -47.0 -0.00111         -0.00211   -59.2   -54.4
              C:60818 ZUMBRTA869.0 60819 CHERYTP869.0 1    1478
                Open 60818 ZUMBRTA869.0 60819 CHERYTP869.0 1                         -0.62236 -0.00161   -15.6   -11.9
1604  -2237.7 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -21.3   -19.3 -0.00088         -0.00094   -19.4   -17.3
              C:60244 SCOTTCO7 115 60890 SCOTTCO869.0 2    1249
                Open 60244 SCOTTCO7 115 60890 SCOTTCO869.0 2                         -0.07830 -0.00079    23.8    25.6
1605  -2237.0 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         283.8   181.0  0.04596          0.04429   266.9   167.8
              C:PRI-BYN/RRK3                              3646
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                          0.02199  0.07639   767.2   596.3
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                          0.00027 -0.01725   152.8   191.4
1606  -2235.7 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          21.6    19.3  0.00104          0.00055    23.3    22.1
              C:60755 FREEPRT869.0 60756 ALBANY 869.0 1    1433
                Open 60755 FREEPRT869.0 60756 ALBANY 869.0 1                          0.62927  0.00078    -2.7    -4.4
1607  -2234.8 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         283.7   181.0  0.04596          0.04429   266.9   167.9
              C:60105 PR ISLD3 345 61950 BYRON  3 345 1     951
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                          0.02190  0.07639   767.2   596.5
1608  -2231.3 L:60264 LOON LK7 115 61976 LOON LK869.0 1          87.5    75.0  0.00562          0.00538    85.3    73.3
              C:34006 LAKEFLD3 345 63875 RAUN   3 345 1    2708
                Open 34006 LAKEFLD3 345 63875 RAUN   3 345 1                          0.00748  0.03120   298.4   228.8
1609  -2226.1 L:60208 EDINA  7 115 60263 EDEN PR7 115 1        -332.7  -318.0 -0.00659         -0.00290  -254.6  -248.1
              C:MEL-BCR/CDR7                              3684
                Close 60181 ALDRICH7 115 60182 ALDRICH7 115 1
                Open 60227 MEDLAKE7 115 60259 BASCRK 7 115 1                          0.18917  0.00000  -153.8  -153.8
                Open 60234 PARKERS7 115 60346 CEDARLK7 115 P1                        -0.42187 -0.00000   116.2   116.2
1612  -2207.7 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -52.4   -48.0 -0.00199         -0.00216   -53.9   -49.1
              C:60113 DOME   7 115 60830 EASTWD18 115 P1    972
                Open 60113 DOME   7 115 60830 EASTWD18 115 P1                          0.01532  0.01053    96.2    73.0
1613  -2207.6 L:60264 LOON LK7 115 61976 LOON LK869.0 1          87.0    75.0  0.00543          0.00538    85.3    73.4
              C:050    1                                   3715
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00481  0.06362   901.3   760.9
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          0.00362 -0.06704  -692.1  -544.1
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                         -0.00000 -0.00175    77.5    81.3
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                          0.00406 -0.00300     0.0     6.6
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                          0.00342 -0.00148   -42.6   -39.4
1614  -2204.7 L:34014 ADAMS  5 161 69547 ROCHSTR5 161 1         208.9   201.0  0.00357         -0.00307    38.1    44.8
              C:61906 MAPLE LF 161 61948 BYRON  5 161 1    3372
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                Open 61906 MAPLE LF 161 61948 BYRON  5 161 1                          -0.55203 -0.01203  -309.4  -282.9
1615  -2200.8 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -52.4   -48.0 -0.00201         -0.00216   -53.9   -49.1
              C:60905 FRMNGTN869.0 62256 CSTL RK869.0 1    3206
                Open 60905 FRMNGTN869.0 62256 CSTL RK869.0 1                          -0.47993 -0.00031    -3.0    -2.4
1616  -2195.2 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -52.4   -48.0 -0.00199         -0.00216   -53.9   -49.1
              C:60110 WILMART7 115 60113 DOME   7 115 C1    963
                Open 60110 WILMART7 115 60113 DOME   7 115 C1                           0.01532  0.01053    97.9    74.8
1617  -2193.2 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         278.1   181.0  0.04429          0.04429   266.9   169.8
              C:34090 ARNOLD1G22.0 34091 ARNOLD 5 161 1    2774
                Open 34090 ARNOLD1G22.0 34091 ARNOLD 5 161 1                          -0.03041  0.00000  -369.0  -369.0
1618  -2192.3 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -52.2   -48.0 -0.00190         -0.00216   -53.9   -49.2
              C:61950 BYRON  3 345 63032 PL VLLY3 345 1    3375
                Open 61950 BYRON  3 345 63032 PL VLLY3 345 1                           0.00301  0.08464   567.6   382.0
1619  -2176.1 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         281.4   181.0  0.04615          0.04429   266.9   170.5
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                           0.01647  0.11317   881.7   635.4
1620  -2174.3 L:60264 LOON LK7 115 61976 LOON LK869.0 1          87.1    75.0  0.00557          0.00538    85.3    73.6
              C:60192 BLUE LK3 345 60217 INVRHLS3 345 1    1126
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                           0.00378  0.04835   476.6   371.5
1621  -2171.9 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -52.7   -48.0 -0.00216         -0.00216   -53.9   -49.2
              C:60788 VALLYTP869.0 62870 VLLYGRV869.0 1    3139
                Open 60788 VALLYTP869.0 62870 VLLYGRV869.0 1                           0.59343  0.00000     2.0     2.0
1622  -2170.1 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         284.8   181.0  0.04785          0.04429   266.9   170.8
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                          -0.02554 -0.13973  -702.5  -399.3
1623  -2169.8 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -52.5   -48.0 -0.00209         -0.00216   -53.9   -49.2
              C:60897 LEBNON 869.0 60905 FRMNGTN869.0 1    1530
                Open 60897 LEBNON 869.0 60905 FRMNGTN869.0 1                          -0.12574 -0.00055   -10.7    -9.5
1624  -2159.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -53.6   -48.0 -0.00259         -0.00216   -48.8   -44.1
              C:60796 KENYON 869.0 60819 CHERYTP869.0 1    1467
                Open 60796 KENYON 869.0 60819 CHERYTP869.0 1                          -0.27260  0.00161    17.8    14.3
1625  -2159.2 L:60264 LOON LK7 115 61976 LOON LK869.0 1          86.8    75.0  0.00545          0.00538    85.3    73.7
              C:CNC-KOL/TER3                               3633
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                           0.00147  0.02476   409.3   355.9
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                           0.00136  0.01934   627.4   585.7
1626  -2156.5 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -15.6   -13.7 -0.00087         -0.00089   -14.3   -12.4
              C:60270 MPLEGV13 345 63030 DICKNSN3 345 1    1277
                Open 60270 MPLEGV13 345 63030 DICKNSN3 345 1                           0.00270  0.00909  -455.8  -475.4
1627  -2155.7 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         281.0   181.0  0.04639          0.04429   266.9   171.4
              C:61950 BYRON  3 345 63032 PL VLLY3 345 1    3375
                Open 61950 BYRON  3 345 63032 PL VLLY3 345 1                           0.02482  0.08464   567.6   385.1
1628  -2154.9 L:60264 LOON LK7 115 61976 LOON LK869.0 1          86.8    75.0  0.00550          0.00538    85.3    73.7
              C:60783 JORDAN 869.0 60936 NPRAG2T869.0 1    1452
                Open 60783 JORDAN 869.0 60936 NPRAG2T869.0 1                           0.35344  0.00032     4.4     3.7
1629  -2151.7 L:60264 LOON LK7 115 61976 LOON LK869.0 1          86.5    75.0  0.00535          0.00538    85.3    73.7
              C:60131 SPLTRTB3 345 66564 SIOUXCY3 345 1    1009
                Open 60131 SPLTRTB3 345 66564 SIOUXCY3 345 1                           0.00223 -0.01463   543.3   574.8
1630  -2151.6 L:60264 LOON LK7 115 61976 LOON LK869.0 1          86.5    75.0  0.00535          0.00538    85.3    73.7
              C:60126 SPLT RK3 345 60131 SPLTRTB3 345 1    1002
                Open 60126 SPLT RK3 345 60131 SPLTRTB3 345 1                           0.00223 -0.01463   543.3   574.8
1631  -2148.3 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -15.6   -13.7 -0.00087         -0.00089   -14.3   -12.4
              C:60233 PARKERS3 345 60270 MPLEGV13 345 1    1220
                Open 60233 PARKERS3 345 60270 MPLEGV13 345 1                           0.00270  0.00909  -453.1  -472.6
1632  -2147.9 L:60264 LOON LK7 115 61976 LOON LK869.0 1          86.7    75.0  0.00545          0.00538    85.3    73.7
              C:022       3                                3704
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                           0.00154  0.02476   409.3   356.1
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                           0.00145  0.01934   627.4   585.9
                Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                          -0.00010  0.00036   207.1   206.3
                Open 60251 TERMINL3 345 61491 TERMID2Y 345 1                          -0.00033 -0.00168   339.2   342.8
                Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                           0.00031  0.00000     0.2     0.2
                Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
1633  -2142.0 L:34384 MCARMOR869.0 34396 EMERY N869.0 1         -56.5   -51.0 -0.00256         -0.00199   -43.6   -39.3
              C:34393 MCHW106869.0 34394 MC 5DEL869.0 1     549
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                Open 34393 MCHW106869.0 34394 MC 5DEL869.0 1                          -0.44492  0.00127    29.0    26.3
1634  -2138.8 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -75.4   -66.0 -0.00442         -0.00166   -53.9   -50.4
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          -0.02438  0.11317   881.7   639.7
1635  -2138.6 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         281.1   181.0  0.04682          0.04429   266.9   172.2
              C:60102 ADAMS  3 345 63032 PL VLLY3 345 1    2933
                Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                          -0.02605 -0.09714  -545.7  -337.9
1636  -2133.4 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -21.8   -19.3 -0.00116         -0.00094   -19.4   -17.4
              C:60107 W FARIB7 115 61952 S FARIB5 161 1     955
                Open 60107 W FARIB7 115 61952 S FARIB5 161 1                          -0.01481  0.01457   159.6   128.6
1637  -2131.5 L:60864 TCAAPTP869.0 60921 BIRCH  869.0 1          52.2    47.0  0.00245          0.00119    16.3    13.8
              C:60196 CHI    7 115 60920 LINDSTM7 115 C1   1140
                Open 60196 CHI    7 115 60920 LINDSTM7 115 C1                          0.13820  0.00913   259.9   240.4
1638  -2128.8 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         272.7   181.0  0.04309          0.04429   266.9   172.6
              C:34018 HAZLTON3 345 34020 HAZL S 5 161 2      54
                Open 34018 HAZLTON3 345 34020 HAZL S 5 161 2                          0.05154 -0.02325   112.9   162.4
1639  -2128.7 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         279.7   181.0  0.04638          0.04429   266.9   172.6
              C:34015 LIME CK5 161 34016 EMERY  5 161 1      46
                Open 34015 LIME CK5 161 34016 EMERY  5 161 1                          -0.06507 -0.03224  -197.2  -128.6
1640  -2123.3 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         240.5   167.0  0.03462          0.03042   207.8   143.3
              C:885                                        3780
                Open 69507 SENECA 5 161 69511 BELLCTR5 161 1                          -0.06695  0.00408   129.4   120.7
                Open 69507 SENECA 5 161 69523 GENOA  5 161 1                          -0.14516 -0.03083  -284.7  -219.2
1641  -2122.7 L:60786 DUNDAS 869.0 60787 NOFIELD869.0 1          60.7    48.0  0.00600          0.00216    30.8    26.2
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          0.03397  0.11317   881.7   641.5
1642  -2122.7 L:60938 FTRIDGL869.0 62077 SCHLTP 869.0 1          44.4    37.0  0.00349          0.00152    29.1    25.8
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          0.01742  0.11317   881.7   641.5
1643  -2111.9 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         280.4   181.0  0.04707          0.04429   266.9   173.4
              C:34075 ELDORA 7 115 34077 IA FALS7 115 1     160
                Open 34075 ELDORA 7 115 34077 IA FALS7 115 1                          -0.22419 -0.01241   -60.2   -34.0
1644  -2111.0 L:60264 LOON LK7 115 61976 LOON LK869.0 1          86.5    75.0  0.00546          0.00538    85.3    73.9
              C:022       1                                3703
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          0.00177  0.02476   409.3   357.1
                Open 60221 KOLMNLK3 345 60251 TERMINL3 345 1                          -0.00081 -0.02267    47.8    95.7
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                          0.00096  0.01934   627.4   586.6
                Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                          -0.00025  0.00036   207.1   206.3
                Open 60251 TERMINL3 345 61492 TERMID1Y 345 1     NA
                Open 60252 TERMINL7 115 61492 TERMID1Y 345 1                          0.00000  0.00166  -335.8  -339.3
                Open 61187 TERTER1934.5 61492 TERMID1Y 345 1     NA
                Open 60251 TERMINL3 345 61491 TERMID2Y 345 1     NA
                Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                          0.00055  0.00000     0.3     0.3
                Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
1645  -2104.4 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          15.5    13.7  0.00086          0.00089    11.3     9.4
              C:62138 BRGGLKS869.0 62139 CABLETP869.0 1    1783
                Open 62138 BRGGLKS869.0 62139 CABLETP869.0 1                          -0.15187  0.00024   -27.8   -28.3
1646  -2103.3 L:60264 LOON LK7 115 61976 LOON LK869.0 1          86.5    75.0  0.00545          0.00538    85.3    74.0
              C:022       6                                3707
                Open 60186 AS KING3 345 60199 CHIS CO3 345 1                          -0.00136 -0.00535  -490.2  -478.9
                Open 60186 AS KING3 345 60221 KOLMNLK3 345 1                          -0.00148 -0.03910  -330.7  -248.5
1647  -2103.3 L:60264 LOON LK7 115 61976 LOON LK869.0 1          86.5    75.0  0.00545          0.00538    85.3    74.0
              C:ASK-CHI/KOL3                               3641
                Open 60186 AS KING3 345 60199 CHIS CO3 345 1                          -0.00136 -0.00535  -490.2  -478.9
                Open 60186 AS KING3 345 60221 KOLMNLK3 345 1                          -0.00148 -0.03910  -330.7  -248.5
1648  -2103.3 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         281.6   181.0  0.04784          0.04429   266.9   173.8
              C:34079 TRAER  5 161 34087 DYSART 5 161 1     163
                Open 34079 TRAER  5 161 34087 DYSART 5 161 1                          0.13930  0.02549   105.6    52.0
1649  -2103.0 L:60264 LOON LK7 115 61976 LOON LK869.0 1          86.5    75.0  0.00545          0.00538    85.3    74.0
              C:62980 MCLEOD 4 230 63054 PANTHER4 230 1    3394
                Open 62980 MCLEOD 4 230 63054 PANTHER4 230 1                          -0.00424 -0.01700  -276.4  -240.6
1650  -2101.0 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -21.7   -19.3 -0.00116         -0.00094   -19.4   -17.4
              C:61952 S FARIB5 161 61964 OWATNNA5 161 1    1697
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                Open 61952 S FARIB5 161 61964 OWATNNA5 161 1                          -0.01481  0.01457   157.1   126.5
1651  -2095.9 L:60264 LOON LK7 115 61976 LOON LK869.0 1          86.4    75.0  0.00543          0.00538    85.3    74.0
              C:60931 CARVRCO869.0 62675 ASSMPTN869.0 1    3213
                Open 60931 CARVRCO869.0 62675 ASSMPTN869.0 1                           0.05075  0.00094    21.3    19.3
1652  -2092.7 L:60264 LOON LK7 115 61976 LOON LK869.0 1          86.4    75.0  0.00544          0.00538    85.3    74.0
              C:60826 TRAVRSE869.0 62350 TRAVERS869.0 1    3175
                Open 60826 TRAVRSE869.0 62350 TRAVERS869.0 1                           0.02186  0.00249    49.3    44.1
1653  -2089.7 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -21.2   -19.3 -0.00091         -0.00094   -19.4   -17.4
              C:60256 WSTGATE7 115 60894 WSTGAT2869.0 1    1268
                Open 60256 WSTGATE7 115 60894 WSTGAT2869.0 1                          -0.06605 -0.00044    27.3    28.2
1654  -2086.1 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         259.0   181.0  0.03739          0.04429   266.9   174.5
              C:34019 HAZLTON5 161 64250 BLKHAWK5 161 1    2725
                Open 34019 HAZLTON5 161 64250 BLKHAWK5 161 1                           0.17098 -0.04036   -46.3    37.9
1655  -2084.4 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         274.4   181.0  0.04480          0.04429   266.9   174.6
              C:ASK-RRK/ECL3                               3642
                Open 60186 AS KING3 345 60236 REDROCK3 345 1                           0.00122 -0.01969   140.3   181.3
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.00714  0.06362   901.3   768.7
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.00125 -0.06704  -692.1  -552.4
1656  -2083.5 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         277.4   181.0  0.04625          0.04429   266.9   174.6
              C:34068 M-TOWN 5 161 34079 TRAER  5 161 1     151
                Open 34068 M-TOWN 5 161 34079 TRAER  5 161 1                           0.10878  0.01809    96.2    58.5
1657  -2081.2 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -21.2   -19.3 -0.00091         -0.00094   -19.4   -17.4
              C:60270 MPLEGV13 345 63030 DICKNSN3 345 1    1277
                Open 60270 MPLEGV13 345 63030 DICKNSN3 345 1                           0.00391  0.00909  -455.8  -474.7
1658  -2081.1 L:60264 LOON LK7 115 61976 LOON LK869.0 1          86.6    75.0  0.00559          0.00538    85.3    74.1
              C:IVH-BLL/RRK3                               3643
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                           0.00214  0.04835   476.6   376.0
                Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                           0.00194  0.05190   157.6    49.6
1659  -2081.1 L:60264 LOON LK7 115 61976 LOON LK869.0 1          86.6    75.0  0.00559          0.00538    85.3    74.1
              C:700    2                                   3738
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                           0.00214  0.04835   476.6   376.0
                Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                           0.00194  0.05190   157.6    49.6
1660  -2080.5 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         235.3   167.0  0.03284          0.03042   207.8   144.6
              C:050    2                                   3716
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.01033  0.06362   901.3   768.9
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.02624 -0.06704  -692.1  -552.6
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                           0.00000 -0.00175    77.5    81.1
1661  -2079.0 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -372.1  -318.0 -0.02602         -0.01397  -311.5  -282.5
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                           0.08621 -0.13973  -702.5  -412.0
1662  -2076.6 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -252.0  -167.0 -0.04092         -0.03350  -177.1  -107.5
              C:PRI-BYN/RRK3                               3646
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                          -0.09736  0.07639   767.2   608.6
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                          -0.00127 -0.01725   152.8   188.6
1663  -2073.8 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         235.1   167.0  0.03286          0.03042   207.8   144.8
              C:050    1                                   3715
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.01026  0.06362   901.3   769.4
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.02646 -0.06704  -692.1  -553.1
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                           0.00000 -0.00175    77.5    81.1
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                          -0.00663 -0.00300     0.0     6.2
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                           0.00634 -0.00148   -42.6   -39.6
1664  -2073.3 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -25.2   -12.0 -0.00638         -0.00453   -17.8    -8.4
              C:34587 MURRAY 869.0 34658 OSCEOLA869.0 1     689
                Open 34587 MURRAY 869.0 34658 OSCEOLA869.0 1                          -0.29929  0.00618    24.8    12.0
1665  -2072.6 L:63194 FERGSFLY 230 63331 FERGSFL4 230 1        -119.7  -112.0 -0.00372         -0.00002   -45.0   -44.9
              C:63051 HENNING4 230 63331 FERGSFL4 230 1    2053
                Open 63051 HENNING4 230 63331 FERGSFL4 230 1                           0.34006 -0.01089  -219.8  -197.2
1666  -2072.3 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         273.8   181.0  0.04480          0.04429   266.9   175.1
              C:050    2                                   3716
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.00674  0.06362   901.3   769.5
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.00123 -0.06704  -692.1  -553.2
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          -0.00000 -0.00175    77.5    81.1
1667  -2069.8 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -21.2   -19.3 -0.00091         -0.00094   -19.4   -17.5
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              C:60233 PARKERS3 345 60270 MPLEGV13 345 1    1220
                Open 60233 PARKERS3 345 60270 MPLEGV13 345 1                          0.00391  0.00909  -453.1  -471.9
1668  -2067.7 L:34059 BOONE  7 115 34076 BNE JCT7 115 1         -67.2   -60.0 -0.00350          0.00401   -42.1   -50.4
              C:34054 GR JCT 5 161 63771 DRAGER 5 161 1    2748
                Open 34054 GR JCT 5 161 63771 DRAGER 5 161 1                          0.20314 -0.03698  -123.9   -47.4
1669  -2065.9 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         273.4   181.0  0.04475          0.04429   266.9   175.4
              C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00725  0.06362   901.3   769.9
1670  -2064.6 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -251.5  -167.0 -0.04091         -0.03350  -177.1  -107.9
              C:60105 PR ISLD3 345 61950 BYRON  3 345 1     951
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                         -0.09695  0.07639   767.2   609.5
1671  -2062.2 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -52.6   -48.0 -0.00221         -0.00216   -53.9   -49.4
              C:60801 CNFLSTR869.0 60802 CANFLS 869.0 1    1471
                Open 60801 CNFLSTR869.0 60802 CANFLS 869.0 1                          0.17316 -0.00031     7.6     8.3
1672  -2062.0 L:60264 LOON LK7 115 61976 LOON LK869.0 1          86.3    75.0  0.00549          0.00538    85.3    74.2
              C:705       1                                3739
                Open 60192 BLUE LK3 345 60233 PARKERS3 345 1                          0.00390  0.01266   -63.9   -90.0
                Open 60192 BLUE LK3 345 60262 EDEN PR3 345 1                          0.00399  0.01319   283.3   256.1
                Open 60262 EDEN PR3 345 60263 EDEN PR7 115 1                          0.00046  0.00057   279.5   278.3
1673  -2060.1 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         273.1   181.0  0.04473          0.04429   266.9   175.7
              C:050    1                                   3715
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00689  0.06362   901.3   770.2
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.00058 -0.06704  -692.1  -554.0
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                         -0.00000 -0.00175    77.5    81.1
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                          0.00769 -0.00300     0.0     6.2
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                          0.00877 -0.00148   -42.6   -39.6
1674  -2058.9 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         277.9   181.0  0.04707          0.04429   266.9   175.7
              C:34075 ELDORA 7 115 34169 WELSBGT7 115 1     161
                Open 34075 ELDORA 7 115 34169 WELSBGT7 115 1                          0.22419  0.01241    49.1    23.5
1675  -2058.0 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -21.2   -19.3 -0.00091         -0.00094   -19.4   -17.5
              C:60893 DEEPHVN869.0 60894 WSTGAT2869.0 1    1529
                Open 60893 DEEPHVN869.0 60894 WSTGAT2869.0 1                          0.06605  0.00044   -26.8   -27.7
1676  -2056.7 L:63194 FERGSFLY 230 63231 FERGSFL7 115 1         119.7   112.0  0.00372          0.00002    44.9    44.9
              C:63051 HENNING4 230 63331 FERGSFL4 230 1    2053
                Open 63051 HENNING4 230 63331 FERGSFL4 230 1                         -0.34006 -0.01089  -219.8  -197.4
1677  -2055.3 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -15.6   -13.7 -0.00095         -0.00089   -14.3   -12.5
              C:63329 WAHPETN4 230 63331 FERGSFL4 230 1    2192
                Open 63329 WAHPETN4 230 63331 FERGSFL4 230 1                         -0.00492  0.01091   264.8   242.4
1678  -2054.4 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         247.5   181.0  0.03238          0.04429   266.9   175.9
              C:34093 ARNOLD 3 345 64352 TIFFIN 3 345 1    2777
                Open 34093 ARNOLD 3 345 64352 TIFFIN 3 345 1                         -0.05593  0.21292   346.7   -90.7
1679  -2048.0 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -25.1   -12.0 -0.00638         -0.00453   -17.8    -8.5
              C:34658 OSCEOLA869.0 34659 OSCEREC869.0 1     755
                Open 34658 OSCEOLA869.0 34659 OSCEREC869.0 1                         -0.29929  0.00618    24.3    11.7
1680  -2044.9 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -16.4   -13.7 -0.00132         -0.00089   -14.3   -12.5
              C:60765 MAPLELK869.0 62935 MAPLELK869.0 1    1439
                Open 60765 MAPLELK869.0 62935 MAPLELK869.0 1                         -0.32182  0.00132     6.4     3.7
1681  -2042.8 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         270.1   181.0  0.04363          0.04429   266.9   176.4
              C:34018 HAZLTON3 345 34019 HAZLTON5 161 1      53
                Open 34018 HAZLTON3 345 34019 HAZLTON5 161 1                          0.04066 -0.01603    79.4   112.1
1682  -2033.1 L:61721 ETCO   7 115 61722 FORBES 7 115 1        -103.4   -98.0 -0.00264         -0.00176   -94.4   -90.8
              C:050    3                                   3717
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          0.01258 -0.06704  -692.1  -555.8
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                          0.00741 -0.00300     0.0     6.1
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                          0.00613 -0.00148   -42.6   -39.6
1683  -2029.7 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         233.6   167.0  0.03283          0.03042   207.8   146.1
              C:ASK-RRK/ECL3                               3642
                Open 60186 AS KING3 345 60236 REDROCK3 345 1                         -0.00376 -0.01969   140.3   180.3
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00908  0.06362   901.3   772.2
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.02619 -0.06704  -692.1  -556.0
1684  -2023.3 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         261.5   181.0  0.03980          0.04429   266.9   177.3
              C:63713 OSGOOD 5 161 66563 SPENCER5 161 1    3461
                Open 63713 OSGOOD 5 161 66563 SPENCER5 161 1                          0.03133 -0.14331  -172.0   118.0
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1685  -2020.0 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         270.5   181.0  0.04429          0.04429   266.9   177.4
              C:34021 LANSINGW 161 34024 LANS5 4G22.0 1    2727
                Open 34021 LANSINGW 161 34024 LANS5 4G22.0 1                        -0.02179  0.00000  -163.0  -163.0
1686  -2017.2 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -24.9   -12.0 -0.00638         -0.00453   -17.8    -8.7
              C:34640 WODBURN869.0 34659 OSCEREC869.0 1     739
                Open 34640 WODBURN869.0 34659 OSCEREC869.0 1                         0.29929 -0.00618   -23.6   -11.2
1687  -2013.7 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         274.9   181.0  0.04663          0.04429   266.9   177.7
              C:34061 BNE JCT5 161 64205 FT.DODG5 161 1    2756
                Open 34061 BNE JCT5 161 64205 FT.DODG5 161 1                        -0.06139 -0.03824  -130.3   -53.3
1688  -2010.6 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         273.1   181.0  0.04580          0.04429   266.9   177.9
              C:34014 ADAMS  5 161 34015 LIME CK5 161 1      42
                Open 34014 ADAMS  5 161 34015 LIME CK5 161 1                        -0.05381 -0.02813  -114.8   -58.3
1689  -2009.5 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         269.0   181.0  0.04381          0.04429   266.9   177.9
              C:34036 ROCK CK3 345 36382 QUAD ;   345 1    2734
                Open 34036 ROCK CK3 345 36382 QUAD ;   345 1                        -0.00876  0.05461  -242.5  -352.2
1690  -2007.5 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -52.6   -48.0 -0.00227         -0.00216   -53.9   -49.5
              C:34006 LAKEFLD3 345 60286 NOBLES 3 345 C1     20
                Open 34006 LAKEFLD3 345 60286 NOBLES 3 345 C1                       -0.00438  0.02531  -303.2  -354.0
1691  -2007.2 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         216.2   167.0  0.02451          0.03042   207.8   146.8
              C:34029 SALEM  3 345 34036 ROCK CK3 345 1      75
                Open 34029 SALEM  3 345 34036 ROCK CK3 345 1                        -0.14854  0.03977   -56.2  -136.1
1692  -2007.2 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         216.2   167.0  0.02451          0.03042   207.8   146.8
              C:34029 SALEM  3 345 34030 SALEM  5 161 1      74
                Open 34029 SALEM  3 345 34030 SALEM  5 161 1                         0.14854 -0.03977    56.2   136.1
1693  -2005.5 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         269.8   181.0  0.04429          0.04429   266.9   178.1
              C:34098 PR CRK4G18.0 34099 PRAR CK7 115 1    2782
                Open 34098 PR CRK4G18.0 34099 PRAR CK7 115 1                        -0.02205  0.00000  -132.0  -132.0
1694  -2001.1 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -24.8   -12.0 -0.00638         -0.00453   -17.8    -8.7
              C:34625 LACONA 869.0 34640 WODBURN869.0 1     726
                Open 34625 LACONA 869.0 34640 WODBURN869.0 1                         0.29929 -0.00618   -23.3   -10.9
1695  -2001.1 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -24.8   -12.0 -0.00638         -0.00453   -17.8    -8.7
              C:34625 LACONA 869.0 34627 LUCAS T869.0 1     725
                Open 34625 LACONA 869.0 34627 LUCAS T869.0 1                        -0.29929  0.00618    23.3    10.9
1696  -2000.7 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         270.3   181.0  0.04461          0.04429   266.9   178.3
              C:39244 ARP 345  345 60304 EAU CL 3 345 1    2888
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                        -0.00484 -0.06704  -692.1  -558.0
1697  -1998.7 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         269.8   181.0  0.04445          0.04429   266.9   178.4
              C:795                                        3765
                Open 60150 MNVLTAP4 230 66550 GRANITF4 230 1                        -0.00952 -0.01397  -311.5  -283.6
                Open 60148 MINVALY7 115 60149 MINVALT4 230 C1                        0.00947  0.00290    18.2    12.4
                Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                         0.00395  0.00000     0.0     0.0
                Open 60149 MINVALT4 230 60150 MNVLTAP4 230 1     NA
                Open 60742 PANTHER869.0 63054 PANTHER4 230 1                         0.00518  0.00014   -40.1   -40.4
1698  -1995.5 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         265.7   181.0  0.04242          0.04429   266.9   178.5
              C:34020 HAZL S 5 161 64269 WASHBRN5 161 1    2726
                Open 34020 HAZL S 5 161 64269 WASHBRN5 161 1                         0.08562 -0.02178   -14.7    28.8
1699  -1994.8 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         270.2   181.0  0.04473          0.04429   266.9   178.6
              C:34014 ADAMS  5 161 69526 BVR CRK5 161 1    2717
                Open 34014 ADAMS  5 161 69526 BVR CRK5 161 1                         0.01958  0.02271   169.6   124.3
1700  -1994.6 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         269.6   181.0  0.04442          0.04429   266.9   178.6
              C:60150 MNVLTAP4 230 63054 PANTHER4 230 1    2952
                Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                         0.00820  0.01687   329.7   296.1
1701  -1991.9 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         270.0   181.0  0.04469          0.04429   266.9   178.7
              C:34022 LANSING5 161 69531 POSTVIL5 161 1    2731
                Open 34022 LANSING5 161 69531 POSTVIL5 161 1                         0.04281  0.00950    72.9    53.9
1702  -1991.7 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         270.2   181.0  0.04479          0.04429   266.9   178.7
              C:BLL-PRI/IVH3                               3638
                Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                        -0.00675 -0.03964  -143.5   -64.6
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         0.00490  0.04835   476.6   380.3
1703  -1990.3 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         269.4   181.0  0.04441          0.04429   266.9   178.8
              C:34068 M-TOWN 5 161 34528 M-TOWN Y 161 1     153
                Open 34068 M-TOWN 5 161 34528 M-TOWN Y 161 1                        -0.06407 -0.00190   -38.7   -34.9
1704  -1990.3 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         269.4   181.0  0.04441          0.04429   266.9   178.8
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                C:34066 M-TOWN 7 115 34528 M-TOWN Y 161 1     147
                  Open 34066 M-TOWN 7 115 34528 M-TOWN Y 161 1                                0.06407  0.00190    38.7    34.9
1705  -1990.0 L:34641 KELLERT869.0 34643 GRRIVER869.0 1          -24.7   -12.0 -0.00638         -0.00453   -17.8    -8.8
                C:34202 LUCAS  869.0 34627 LUCAS T869.0 1     328
                  Open 34202 LUCAS  869.0 34627 LUCAS T869.0 1                                0.29929 -0.00618   -23.1   -10.8
1706  -1987.6 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1          269.3   181.0  0.04443          0.04429   266.9   178.9
                C:62980 MCLEOD 4 230 63054 PANTHER4 230 1    3394
                  Open 62980 MCLEOD 4 230 63054 PANTHER4 230 1                               -0.00872 -0.01700  -276.4  -242.6
1707  -1987.5 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1          269.5   181.0  0.04454          0.04429   266.9   178.9
                C:050    3                                   3717
                  Open 39244 ARP 345  345 60304 EAU CL 3 345 1                               -0.00430 -0.06704  -692.1  -558.9
                  Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                                0.00711 -0.00300     0.0     6.0
                  Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                                0.00836 -0.00148   -42.6   -39.7
1708  -1986.5 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1          -15.5   -13.7 -0.00091         -0.00089   -14.3   -12.6
                C:60206 CROWRVR7 115 62924 MEDINA 7 115 1    1169
                  Open 60206 CROWRVR7 115 62924 MEDINA 7 115 1                               -0.01687  0.00112    69.3    67.1
1709  -1984.7 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1          262.8   181.0  0.04123          0.04429   266.9   179.0
                C:34087 DYSART 5 161 34089 VINTON 5 161 1     176
                  Open 34087 DYSART 5 161 34089 VINTON 5 161 1                               -0.06453  0.04736    63.2   -30.8
1710  -1982.2 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1          270.1   181.0  0.04493          0.04429   266.9   179.1
                C:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1     114
                  Open 34051 TOLEDO 7 115 34066 M-TOWN 7 115 1                               -0.04202 -0.01539   -75.2   -44.7
1711  -1980.6 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1          -15.5   -13.7 -0.00090         -0.00089   -14.3   -12.6
                C:61910 MILACA 4 230 62301 MILACA 869.0 1    1682
                  Open 61910 MILACA 4 230 62301 MILACA 869.0 1                               -0.01742  0.00031    65.3    64.7
1712  -1980.6 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1          -15.5   -13.7 -0.00090         -0.00089   -14.3   -12.6
                C:61910 MILACA 4 230 63045 BENTON 4 230 1    3373
                  Open 61910 MILACA 4 230 63045 BENTON 4 230 1                                0.01742 -0.00031   -65.3   -64.7
1713  -1979.2 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1          -61.9   -58.0 -0.00195         -0.00273   -59.9   -54.5
                C:34189 OTTUMWA5 161 34192 LUCAS  5 161 1     310
                  Open 34189 OTTUMWA5 161 34192 LUCAS  5 161 1                               -0.10139 -0.00770    18.9    34.1
1714  -1979.1 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1          269.7   181.0  0.04483          0.04429   266.9   179.3
                C:700    1                                   3737
                  Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                               -0.00697 -0.03964  -143.5   -65.1
                  Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                                0.00304  0.04835   476.6   380.9
                  Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                                0.00229  0.05190   157.6    54.9
1715  -1978.8 L:34423 MONONA_869.0 69307 FARMBURG69.0 1           68.9    51.0  0.00903          0.00601    44.4    32.5
                C:885                                       3780
                  Open 69507 SENECA 5 161 69511 BELLCTR5 161 1                               -0.03774  0.00408   129.4   121.3
                  Open 69507 SENECA 5 161 69523 GENOA  5 161 1                               -0.10317 -0.03083  -284.7  -223.7
1716  -1978.7 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1          269.8   181.0  0.04489          0.04429   266.9   179.3
                C:34009 WINBAGO5 161 61932 RUTLAND5 161 1      32
                  Open 34009 WINBAGO5 161 61932 RUTLAND5 161 1                               -0.01188 -0.05102  -245.9  -145.0
1717  -1977.9 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1          268.8   181.0  0.04439          0.04429   266.9   179.3
                C:022       6                               3707
                  Open 60186 AS KING3 345 60199 CHIS CO3 345 1                               -0.00235 -0.00535  -490.2  -479.6
                  Open 60186 AS KING3 345 60221 KOLMNLK3 345 1                               -0.00221 -0.03910  -330.7  -253.4
1718  -1977.9 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1          268.8   181.0  0.04439          0.04429   266.9   179.3
                C:ASK-CHI/KOL3                              3641
                  Open 60186 AS KING3 345 60199 CHIS CO3 345 1                               -0.00235 -0.00535  -490.2  -479.6
                  Open 60186 AS KING3 345 60221 KOLMNLK3 345 1                               -0.00221 -0.03910  -330.7  -253.4
1719  -1975.3 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1          269.0   181.0  0.04454          0.04429   266.9   179.4
                C:60265 LOON TP7 115 60830 EASTWD18 115 P1   1275
                  Open 60265 LOON TP7 115 60830 EASTWD18 115 P1                              -0.00989 -0.02555  -209.2  -158.7
1720  -1975.0 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1          -61.9   -58.0 -0.00195         -0.00273   -59.9   -54.6
                C:34192 LUCAS  5 161 34559 LUCAS  Y 161 1     314
                  Open 34192 LUCAS  5 161 34559 LUCAS  Y 161 1                               -0.10139 -0.00770    18.8    34.0
1721  -1975.0 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1          -61.9   -58.0 -0.00195         -0.00273   -59.9   -54.6
                C:34202 LUCAS  869.0 34559 LUCAS  Y 161 1     327
                  Open 34202 LUCAS  869.0 34559 LUCAS  Y 161 1                                0.10139  0.00770   -18.8   -34.0
1722  -1973.6 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1          268.5   181.0  0.04436          0.04429   266.9   179.5
                C:CNC-KOL/TER3                              3633
                  Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                                0.00167  0.02476   409.3   360.5
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                Open 60202 COON CK3 345 60251 TERMINL3 345 1                          0.00152  0.01934   627.4   589.3
1723  -1972.2 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.8   181.0  0.04453          0.04429   266.9   179.6
              C:61948 BYRON  5 161 61964 OWATNNA5 161 1    1696
                Open 61948 BYRON  5 161 61964 OWATNNA5 161 1                         -0.01221 -0.02028  -157.4  -117.4
1724  -1971.9 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.5   181.0  0.04436          0.04429   266.9   179.6
              C:022       3                                 3704
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          0.00175  0.02476   409.3   360.5
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                          0.00163  0.01934   627.4   589.3
                Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                         -0.00013  0.00036   207.1   206.4
                Open 60251 TERMINL3 345 61491 TERMID2Y 345 1                         -0.00041 -0.00168   339.2   342.5
                Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                          0.00265  0.00000     0.2     0.2
                Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
1725  -1971.9 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         262.3   181.0  0.04123          0.04429   266.9   179.6
              C:34089 VINTON 5 161 34091 ARNOLD 5 161 1     177
                Open 34089 VINTON 5 161 34091 ARNOLD 5 161 1                         -0.06453  0.04736    71.4   -22.0
1726  -1971.1 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         269.1   181.0  0.04472          0.04429   266.9   179.6
              C:34010 HAYWARD5 161 34015 LIME CK5 161 1      35
                Open 34010 HAYWARD5 161 34015 LIME CK5 161 1                         -0.04187 -0.01032   -53.4   -33.1
1727  -1970.7 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.3   181.0  0.04429          0.04429   266.9   179.6
              C:34039 BVRCH52G20.0 34042 BVR CH65 161 1    2736
                Open 34039 BVRCH52G20.0 34042 BVR CH65 161 1                         -0.01171  0.00000  -117.0  -117.0
1728  -1970.0 L:60264 LOON LK7 115 61976 LOON LK869.0 1          83.9    75.0  0.00449          0.00538    85.3    74.7
              C:34093 ARNOLD 3 345 64352 TIFFIN 3 345 1    2777
                Open 34093 ARNOLD 3 345 64352 TIFFIN 3 345 1                         -0.00418  0.21292   346.7   -72.7
1729  -1970.0 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         269.2   181.0  0.04475          0.04429   266.9   179.7
              C:34008 FOX LK 5 161 61932 RUTLAND5 161 1      28
                Open 34008 FOX LK 5 161 61932 RUTLAND5 161 1                          0.00965  0.04814   233.2   138.4
1730  -1969.6 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         269.5   181.0  0.04494          0.04429   266.9   179.7
              C:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1     145
                Open 34066 M-TOWN 7 115 34085 BLRSTWN7 115 1                          0.04003  0.01629    65.0    32.9
1731  -1969.3 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.4   181.0  0.04439          0.04429   266.9   179.7
              C:60189 BLK DOG4 230 62980 MCLEOD 4 230 1    1121
                Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                         -0.00783 -0.01298  -192.3  -166.7
1732  -1969.3 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.4   181.0  0.04439          0.04429   266.9   179.7
              C:810   C1                                    3767
                Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                         -0.00783 -0.01298  -192.3  -166.7
                Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                         0.00292  0.00000    -0.0    -0.0
1733  -1969.3 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.4   181.0  0.04439          0.04429   266.9   179.7
              C:60189 BLK DOG4 230 60190 BLK DOG7 115 C1   1120
                Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                         0.00783  0.01298   192.3   166.7
1734  -1969.1 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.7   181.0  0.04453          0.04429   266.9   179.7
              C:BYN-WOW/KAN5                                3653
                Open 61948 BYRON  5 161 61964 OWATNNA5 161 1                         -0.01221 -0.02028  -157.4  -117.5
                Open 60799 KASSON 869.0 61161 BYRON  869.0 1                         -0.00519  0.00000    26.8    26.8
1735  -1968.7 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.2   181.0  0.04429          0.04429   266.9   179.7
              C:60122 LAWRENC7 115 60834 LAWRENC869.0 1     992
                Open 60122 LAWRENC7 115 60834 LAWRENC869.0 1                          0.02044  0.00000    62.7    62.7
1736  -1968.7 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.2   181.0  0.04430          0.04429   266.9   179.7
              C:63369 JAMESTN3 345 66791 CENTER 3 345 1    2199
                Open 63369 JAMESTN3 345 66791 CENTER 3 345 1                         -0.00310 -0.00471  -422.3  -413.0
1737  -1968.5 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.3   181.0  0.04437          0.04429   266.9   179.7
              C:500                                         3718
                Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                         -0.00767 -0.01028  -216.5  -196.3
                Open 62427 WILLMAR869.0 63050 WILLMAR4 230 1                          0.00607  0.00004   -38.4   -38.5
1738  -1968.2 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.2   181.0  0.04429          0.04429   266.9   179.7
              C:34075 ELDORA 7 115 34158 ELDORA 934.5 1    2764
                Open 34075 ELDORA 7 115 34158 ELDORA 934.5 1                          0.11309  0.00000    11.1    11.1
1739  -1967.8 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         249.3   181.0  0.03469          0.04429   266.9   179.8
              C:34018 HAZLTON3 345 34093 ARNOLD 3 345 1      55
                Open 34018 HAZLTON3 345 34093 ARNOLD 3 345 1                         -0.05293  0.18131   333.4   -23.4
1740  -1967.7 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -51.9   -48.0 -0.00196         -0.00216   -53.9   -49.6
              C:60808 EAGLELK869.0 62347 EAGLELK869.0 1    3154
                Open 60808 EAGLELK869.0 62347 EAGLELK869.0 1                         -0.05926 -0.00322   -33.9   -27.6
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1741  -1967.2 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.2   181.0  0.04434          0.04429   266.9   179.8
              C:63329 WAHPETN4 230 63331 FERGSFL4 230 1    2192
                Open 63329 WAHPETN4 230 63331 FERGSFL4 230 1                          0.00498  0.01091   264.8   243.3
1742  -1966.8 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -20.9   -12.0 -0.00453         -0.00453   -17.8    -8.9
              C:34200 CNTRVIL869.0 34573 N CENT8 69.0 1     325
                Open 34200 CNTRVIL869.0 34573 N CENT8 69.0 1                          0.06304 -0.00000   -49.5   -49.5
1743  -1966.6 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         269.4   181.0  0.04493          0.04429   266.9   179.8
              C:34010 HAYWARD5 161 61984 AUSTIN 5 161 1    2711
                Open 34010 HAYWARD5 161 61984 AUSTIN 5 161 1                          0.02191  0.02924   111.6    54.1
1744  -1966.5 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.3   181.0  0.04440          0.04429   266.9   179.8
              C:60309 MRSHLND5 161 69543 ALMA   5 161 1    3011
                Open 60309 MRSHLND5 161 69543 ALMA   5 161 1                         -0.00868 -0.01291  -161.6  -136.2
1745  -1966.4 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.3   181.0  0.04438          0.04429   266.9   179.8
              C:022       1                                3703
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          0.00203  0.02476   409.3   360.6
                Open 60221 KOLMNLK3 345 60251 TERMINL3 345 1                         -0.00101 -0.02267    47.8    92.4
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                          0.00102  0.01934   627.4   589.4
                Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                         -0.00031  0.00036   207.1   206.4
                Open 60251 TERMINL3 345 61492 TERMID1Y 345 1     NA
                Open 60252 TERMINL7 115 61492 TERMID1Y 345 1                          0.00000  0.00166  -335.8  -339.1
                Open 61187 TERTER1934.5 61492 TERMID1Y 345 1     NA
                Open 60251 TERMINL3 345 61491 TERMID2Y 345 1     NA
                Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                          0.00295  0.00000     0.3     0.3
                Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
1746  -1966.3 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.1   181.0  0.04430          0.04429   266.9   179.8
              C:63358 BUFFALO3 345 63369 JAMESTN3 345 1    2195
                Open 63358 BUFFALO3 345 63369 JAMESTN3 345 1                         -0.00310 -0.00471  -387.9  -378.7
1747  -1965.8 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.2   181.0  0.04436          0.04429   266.9   179.8
              C:60356 PAYNES 4 230 63050 WILLMAR4 230 C1   1365
                Open 60356 PAYNES 4 230 63050 WILLMAR4 230 C1                        -0.00742 -0.01032  -175.7  -155.4
1748  -1965.8 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.2   181.0  0.04436          0.04429   266.9   179.8
              C:60156 PYNSVIL7 115 60356 PAYNES 4 230 C1   1069
                Open 60156 PYNSVIL7 115 60356 PAYNES 4 230 C1                        -0.00742 -0.01032  -175.7  -155.4
1749  -1965.7 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.1   181.0  0.04430          0.04429   266.9   179.9
              C:63358 BUFFALO3 345 66792 MAPLE R3 345 1    2196
                Open 63358 BUFFALO3 345 66792 MAPLE R3 345 1                          0.00310  0.00471   379.1   369.8
1750  -1965.2 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.0   181.0  0.04429          0.04429   266.9   179.9
              C:34395 EMERY S869.0 34403 CL LAKT869.0 1     552
                Open 34395 EMERY S869.0 34403 CL LAKT869.0 1                          0.04442  0.00000    25.3    25.3
1751  -1964.9 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.3   181.0  0.04441          0.04429   266.9   179.9
              C:60107 W FARIB7 115 61952 S FARIB5 161 1     955
                Open 60107 W FARIB7 115 61952 S FARIB5 161 1                          0.00850  0.01457   159.6   131.0
1752  -1964.5 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.2   181.0  0.04441          0.04429   266.9   179.9
              C:61952 S FARIB5 161 61964 OWATNNA5 161 1    1697
                Open 61952 S FARIB5 161 61964 OWATNNA5 161 1                          0.00850  0.01457   157.1   128.5
1753  -1962.5 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.8   181.0  0.04476          0.04429   266.9   180.0
              C:34191 REASNOR5 161 64062 DMOINES5 161 1    2820
                Open 34191 REASNOR5 161 64062 DMOINES5 161 1                         -0.01565 -0.03041  -124.0   -64.3
1754  -1962.5 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.0   181.0  0.04432          0.04429   266.9   180.0
              C:60133 SHEYNNE4 230 63336 AUDUBON4 230 1    1013
                Open 60133 SHEYNNE4 230 63336 AUDUBON4 230 1                          0.00424  0.00860   253.4   236.6
1755  -1962.4 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.0   181.0  0.04434          0.04429   266.9   180.0
              C:63050 WILLMAR4 230 66550 GRANITF4 230 1    2051
                Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                         -0.00509 -0.01028  -216.5  -196.4
1756  -1962.2 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.1   181.0  0.04441          0.04429   266.9   180.0
              C:60192 BLUE LK3 345 60217 INVRHLS3 345 1    1126
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          0.00260  0.04835   476.6   381.7
1757  -1962.0 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.0   181.0  0.04434          0.04429   266.9   180.0
              C:63051 HENNING4 230 63331 FERGSFL4 230 1    2053
                Open 63051 HENNING4 230 63331 FERGSFL4 230 1                         -0.00496 -0.01089  -219.8  -198.4
1758  -1961.5 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.2   181.0  0.04444          0.04429   266.9   180.0
              C:60107 W FARIB7 115 60265 LOON TP7 115 C1    952
                Open 60107 W FARIB7 115 60265 LOON TP7 115 C1                        -0.00753 -0.02017  -166.9  -127.4
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1759  -1961.3 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.0   181.0  0.04435          0.04429   266.9   180.0
              C:61611 WINGRIV4 230 63052 INMAN  4 230 1    3357
                Open 61611 WINGRIV4 230 63052 INMAN  4 230 1                         -0.00552 -0.01196  -196.1  -172.7
1760  -1961.0 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.4   181.0  0.04457          0.04429   266.9   180.1
              C:34010 HAYWARD5 161 34013 WNBAGOS5 161 1      33
                Open 34010 HAYWARD5 161 34013 WNBAGOS5 161 1                         -0.00841 -0.03350  -177.1  -111.4
1761  -1960.9 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         267.9   181.0  0.04434          0.04429   266.9   180.1
              C:63051 HENNING4 230 63052 INMAN  4 230 1    2052
                Open 63051 HENNING4 230 63052 INMAN  4 230 1                          0.00496  0.01089   210.2   188.8
1762  -1960.6 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         269.1   181.0  0.04493          0.04429   266.9   180.1
              C:34051 TOLEDO 7 115 34083 BL.PLN.7 115 1     115
                Open 34051 TOLEDO 7 115 34083 BL.PLN.7 115 1                          0.04202  0.01539    52.0    21.9
1763  -1960.5 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         267.9   181.0  0.04433          0.04429   266.9   180.1
              C:63053 HUBBARD4 230 63336 AUDUBON4 230 1    3405
                Open 63053 HUBBARD4 230 63336 AUDUBON4 230 1                         -0.00500 -0.00856  -200.4  -183.6
1764  -1960.4 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.0   181.0  0.04436          0.04429   266.9   180.1
              C:66530 WATERTN4 230 66550 GRANITF4 230 1    2501
                Open 66530 WATERTN4 230 66550 GRANITF4 230 1                          0.00549  0.01320   191.8   165.9
1765  -1958.8 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.0   181.0  0.04441          0.04429   266.9   180.2
              C:34182 WAPELLO5 161 34183 JEFF   5 161 1     292
                Open 34182 WAPELLO5 161 34183 JEFF   5 161 1                          0.00754  0.01653   143.8   111.4
1766  -1957.8 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.0   181.0  0.04442          0.04429   266.9   180.2
              C:34371 RICE   869.0 34415 CRESCO 869.0 1     526
                Open 34371 RICE   869.0 34415 CRESCO 869.0 1                          0.03065  0.00424    34.3    26.0
1767  -1956.6 L:64256 UNIONTP5 161 64655 UNI MID869.0 1         110.8   100.0  0.00550          0.00392    99.8    92.1
              C:34016 EMERY  5 161 64252 FLOYD  5 161 1    2719
                Open 34016 EMERY  5 161 64252 FLOYD  5 161 1                          0.04637  0.03409   236.6   169.9
1768  -1955.8 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.6   181.0  0.04480          0.04429   266.9   180.3
              C:34054 GR JCT 5 161 63771 DRAGER 5 161 1    2748
                Open 34054 GR JCT 5 161 63771 DRAGER 5 161 1                         -0.01376 -0.03698  -123.9   -51.6
1769  -1955.2 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.2   181.0  0.04459          0.04429   266.9   180.3
              C:34179 JASPER 5 161 64189 NEANKNY5 161 1    2816
                Open 34179 JASPER 5 161 64189 NEANKNY5 161 1                         -0.01463 -0.02084   -87.3   -46.5
1770  -1954.1 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.3   181.0  0.04467          0.04429   266.9   180.4
              C:34010 HAYWARD5 161 34014 ADAMS  5 161 1      34
                Open 34010 HAYWARD5 161 34014 ADAMS  5 161 1                          0.01737  0.02214    79.8    36.5
1771  -1953.7 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.6   181.0  0.04486          0.04429   266.9   180.4
              C:LAKF-FOX DBL                               3781
                Open 34007 LAKEFLD5 161 34008 FOX LK 5 161 1                          0.01069  0.02660    78.8    26.8
                Open 34007 LAKEFLD5 161 34008 FOX LK 5 161 2                          0.01069  0.02728    84.2    30.9
1772  -1953.4 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.9   181.0  0.04502          0.04429   266.9   180.4
              C:34185 POWESHK5 161 34191 REASNOR5 161 1     300
                Open 34185 POWESHK5 161 34191 REASNOR5 161 1                         -0.01542 -0.04760  -132.1   -39.1
1773  -1952.1 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.6   181.0  0.04486          0.04429   266.9   180.5
              C:34054 GR JCT 5 161 34058 PERRY  5 161 1     120
                Open 34054 GR JCT 5 161 34058 PERRY  5 161 1                          0.01581  0.03623   105.0    34.3
1774  -1952.0*L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         268.2   181.0  0.04465          0.04429   266.9   180.5
              C:61930 WINDSOR5 161 69531 POSTVIL5 161 1    3374
                Open 61930 WINDSOR5 161 69531 POSTVIL5 161 1                         -0.04771 -0.00767   -26.3   -11.4
1777  -1947.1 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -53.4   -48.0 -0.00279         -0.00216   -48.8   -44.6
              C:BLL-PRI/IVH3                               3638
                Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                          0.00653 -0.03964  -143.5   -66.4
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.00786  0.04835   476.6   382.4
1780  -1939.8 L:64239 FRANKLN5 161 64285 BUTLER 5 161 1         266.9   181.0  0.04429
                Base Case
1785  -1934.5 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -52.9   -48.0 -0.00254         -0.00216   -44.9   -40.7
              C:700    1                                   3737
                Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                          0.00507 -0.03964  -143.5   -66.9
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.02037  0.04835   476.6   383.1
                Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                          0.01540  0.05190   157.6    57.2
1786  -1932.4 L:60264 LOON LK7 115 61976 LOON LK869.0 1          83.3    75.0  0.00430          0.00538    85.3    74.9
              C:34018 HAZLTON3 345 34093 ARNOLD 3 345 1      55
                Open 34018 HAZLTON3 345 34093 ARNOLD 3 345 1                         -0.00597  0.18131   333.4   -17.0
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1787  -1930.3 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         229.8   167.0  0.03255          0.03042   207.8   149.1
              C:39244 ARP 345  345 60304 EAU CL 3 345 1    2888
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.03176 -0.06704  -692.1  -562.7
1790  -1926.2 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         229.8   167.0  0.03258          0.03042   207.8   149.3
              C:050    3                                   3717
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.03201 -0.06704  -692.1  -563.0
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                          -0.00750 -0.00300     0.0     5.8
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                           0.00573 -0.00148   -42.6   -39.8
1791  -1926.1 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -53.0   -48.0 -0.00259         -0.00216   -48.8   -44.6
              C:60818 ZUMBRTA869.0 60819 CHERYTP869.0 1    1478
                Open 60818 ZUMBRTA869.0 60819 CHERYTP869.0 1                           0.27260 -0.00161   -15.6   -12.5
1794  -1917.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -52.1   -48.0 -0.00216         -0.00216   -48.8   -44.6
              C:60003 PR IS31G20.0 60105 PR ISLD3 345 1    2893
                Open 60003 PR IS31G20.0 60105 PR ISLD3 345 1                           0.00646  0.00000  -523.2  -523.2
1795  -1917.2 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -20.9   -19.3 -0.00085         -0.00094   -19.4   -17.6
              C:34300 MONTGMY869.0 62876 FRLK TP869.0 1     476
                Open 34300 MONTGMY869.0 62876 FRLK TP869.0 1                           0.27659  0.00032    -5.5    -6.1
1799  -1914.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -52.1   -48.0 -0.00216         -0.00216   -48.8   -44.6
              C:60004 PR IS32G20.0 60105 PR ISLD3 345 1    2894
                Open 60004 PR IS32G20.0 60105 PR ISLD3 345 1                           0.00646  0.00000  -522.2  -522.2
1801  -1913.6 L:60264 LOON LK7 115 61976 LOON LK869.0 1          85.3    75.0  0.00538
                Base Case
1811  -1905.8 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -248.3  -167.0 -0.04264         -0.03350  -177.1  -113.2
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          -0.08073  0.11317   881.7   666.0
1819  -1900.3 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -49.8   -47.0 -0.00145         -0.00211   -59.2   -55.2
              C:60786 DUNDAS 869.0 60787 NOFIELD869.0 1    1455
                Open 60786 DUNDAS 869.0 60787 NOFIELD869.0 1                           0.30553  0.00216    30.8    26.7
1826  -1898.4 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -287.0  -181.0 -0.05585         -0.04429  -244.2  -160.2
              C:34018 HAZLTON3 345 60102 ADAMS  3 345 1      56
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                           0.08140 -0.14203  -525.7  -256.1
1827  -1898.4 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -20.9   -19.3 -0.00086         -0.00094   -19.4   -17.6
              C:705       2                                3740
                Open 60192 BLUE LK3 345 60233 PARKERS3 345 1                           0.00324  0.01266   -63.9   -87.9
                Open 60233 PARKERS3 345 60262 EDEN PR3 345 1                          -0.00343 -0.01209   257.4   280.4
                Open 60262 EDEN PR3 345 60263 EDEN PR7 115 2                          -0.00169  0.00053   259.8   258.8
1829  -1897.5 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          16.2    13.7  0.00132          0.00089    11.3     9.6
              C:60704 KIMBALL869.0 60761 SOUTHVN869.0 1    1406
                Open 60704 KIMBALL869.0 60761 SOUTHVN869.0 1                           0.32182  0.00132    15.3    12.8
1837  -1889.7 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         227.0   167.0  0.03177          0.03042   207.8   150.4
              C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.02130  0.06362   901.3   781.1
1838  -1889.4 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -286.5  -181.0 -0.05581         -0.04429  -244.2  -160.6
              C:825                                        3771
                Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                          -0.00236 -0.09714  -545.7  -362.1
                Open 34014 ADAMS  5 161 60102 ADAMS  3 345 1                          -0.00000  0.02245    -2.8   -45.3
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                           0.08277 -0.14203  -525.7  -257.4
1840  -1887.3 L:60823 REDWING869.0 60824 FRONTNC869.0 1          58.7    48.0  0.00565          0.00360    36.5    29.7
              C:PRI-BYN/RRK3                               3646
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                           0.02791  0.07639   767.2   623.0
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                           0.00494 -0.01725   152.8   185.3
1843  -1883.0 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -51.7   -48.0 -0.00196         -0.00216   -53.9   -49.8
              C:60831 EASTWD2869.0 62347 EAGLELK869.0 1    3179
                Open 60831 EASTWD2869.0 62347 EAGLELK869.0 1                           0.05926  0.00322    36.7    30.7
1845  -1879.1 L:60684 YELWMED869.0 60903 LYON CO869.0 1         -49.9   -47.0 -0.00153         -0.00187   -27.5   -24.0
              C:60286 NOBLES 3 345 60287 NOBLES 7 115 C1   1291
                Open 60286 NOBLES 3 345 60287 NOBLES 7 115 C1                          0.04697  0.00735  -476.5  -490.3
1850  -1875.1 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -15.7   -13.7 -0.00109         -0.00089   -14.3   -12.7
              C:BLL-PRI/IVH3                               3638
                Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                           0.00217 -0.03964  -143.5   -69.2
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.00228  0.04835   476.6   385.9
1851  -1873.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -52.3   -48.0 -0.00229         -0.00216   -48.8   -44.7
              C:61906 MAPLE LF 161 61948 BYRON  5 161 1    3372
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                Open 61906 MAPLE LF 161 61948 BYRON  5 161 1                          0.01144 -0.01203  -309.4  -286.9
1860  -1870.3 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1        -20.9   -19.3 -0.00087         -0.00094   -19.4   -17.6
              C:715       5                                  3749
                Open 60190 BLK DOG7 115 60242 SAVAGE 7 115 1                         -0.01038 -0.00055    29.6    30.6
                Open 60242 SAVAGE 7 115 62668 EGLCKTP7 115 1     NA
                Open 62668 EGLCKTP7 115 62975 SHAKOPE7 115 1     NA
                Open 60244 SCOTTCO7 115 62975 SHAKOPE7 115 1                          0.01135  0.00000    55.2    55.2
                Open 60244 SCOTTCO7 115 60890 SCOTTCO869.0 2                         -0.07774 -0.00079    23.8    25.3
1861  -1869.2 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1        218.1   167.0  0.02732          0.03042   207.8   151.0
              C:34103 MARION 7 115 34131 COGGON 7 115 1     191
                Open 34103 MARION 7 115 34131 COGGON 7 115 1                          0.63955 -0.00485    16.0    25.0
1867  -1858.2 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1        -52.0   -48.0 -0.00216         -0.00216   -48.8   -44.8
              C:60000 SHERC31G24.0 60160 SHERCO 3 345 1    2890
                Open 60000 SHERC31G24.0 60160 SHERCO 3 345 1                          0.00560  0.00000  -580.3  -580.3
1870  -1852.9 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1        -51.7   -48.0 -0.00201         -0.00216   -44.9   -40.9
              C:60105 PR ISLD3 345 60106 PR ISLD5 161 1     947
                Open 60105 PR ISLD3 345 60106 PR ISLD5 161 1                         -0.05730 -0.00257   118.9   123.7
1871  -1852.9 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1        -51.7   -48.0 -0.00201         -0.00216   -44.9   -40.9
              C:60106 PR ISLD5 161 63071 SPRNGCK5 161 1    2936
                Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                         -0.05730 -0.00257   118.9   123.7
1872  -1852.4 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1        -15.5   -13.7 -0.00095         -0.00089   -14.3   -12.7
              C:63051 HENNING4 230 63331 FERGSFL4 230 1    2053
                Open 63051 HENNING4 230 63331 FERGSFL4 230 1                          0.00507 -0.01089  -219.8  -199.6
1875  -1847.6 L:61721 ETCO   7 115 61722 FORBES 7 115 1       -102.8   -98.0 -0.00257         -0.00176   -94.4   -91.1
              C:39244 ARP 345  345 60304 EAU CL 3 345 1    2888
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          0.01208 -0.06704  -692.1  -568.2
1876  -1844.8 L:60310 MONROCO5 161 60949 MONROCO869.0 1         76.7    70.0  0.00362          0.00246    66.3    61.8
              C:050    2                                  3716
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                         -0.00663  0.06362   901.3   783.9
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.02363 -0.06704  -692.1  -568.4
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          0.00000 -0.00175    77.5    80.7
1880  -1832.9 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1        -20.9   -19.3 -0.00085         -0.00094   -19.4   -17.7
              C:715       1                                  3745
                Open 60200 BLK DG27 115 62666 GLNDALE7 115 1                         -0.00701 -0.00339     1.6     7.8
                Open 60190 BLK DOG7 115 60242 SAVAGE 7 115 1                         -0.01211 -0.00055    29.6    30.6
                Open 62666 GLNDALE7 115 62672 GLNDALE869.0 2                          0.00197  0.00008    25.1    24.9
                Open 60242 SAVAGE 7 115 62668 EGLCKTP7 115 1     NA
                Open 62668 EGLCKTP7 115 62975 SHAKOPE7 115 1     NA
                Open 60244 SCOTTCO7 115 62975 SHAKOPE7 115 1                          0.01282  0.00000    55.2    55.2
                Open 60244 SCOTTCO7 115 60890 SCOTTCO869.0 2                         -0.07733 -0.00079    23.8    25.2
1883  -1829.7 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1        -15.7   -13.7 -0.00108         -0.00089   -14.3   -12.7
              C:62616 BIGSWAN7 115 62982 HUTCHMN7 115 1    3388
                Open 62616 BIGSWAN7 115 62982 HUTCHMN7 115 1                          0.04556 -0.00412   -29.3   -21.8
1884  -1829.0 L:60823 REDWING869.0 60824 FRONTNC869.0 1         57.3    48.0  0.00507          0.00360    36.5    29.9
              C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.02305  0.06362   901.3   784.9
1885  -1828.2 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1        -51.9   -48.0 -0.00216         -0.00216   -48.8   -44.8
              C:60001 SHERC32G24.0 60160 SHERCO 3 345 1    2891
                Open 60001 SHERC32G24.0 60160 SHERCO 3 345 1                          0.00560  0.00000  -568.8  -568.8
1886  -1827.3 L:61948 BYRON  5 161 61906 MAPLE LF 161 1        434.8   372.0  0.03434          0.01203   309.4   287.4
              C:60102 ADAMS  3 345 63032 PL VLLY3 345 1    2933
                Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                         -0.22972 -0.09714  -545.7  -368.2
1889  -1823.6 L:60265 LOON TP7 115 60830 EASTWD18 115 P1       -401.6  -310.0 -0.05025         -0.02555  -209.2  -162.6
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                         -0.21823  0.11317   881.7   675.4
1890  -1823.0 L:60208 EDINA  7 115 60263 EDEN PR7 115 1       -330.0  -318.0 -0.00659         -0.00290  -254.6  -249.3
              C:MEL-BCR/PKL7                                 3683
                Close 60181 ALDRICH7 115 60182 ALDRICH7 115 1
                Open 60227 MEDLAKE7 115 60259 BASCRK 7 115 1                          0.18917  0.00000  -153.8  -153.8
                Open 60234 PARKERS7 115 60346 CEDARLK7 115 P1                        -0.42187 -0.00000   116.2   116.2
                Open 60249 STLSPRK7 115 60346 CEDARLK7 115 P1                         0.34673  0.00000     7.7     7.7
1891  -1818.4 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1        -51.9   -48.0 -0.00216         -0.00216   -48.8   -44.8
              C:60005 MNTCE31G22.0 60151 MNTCELO3 345 1    2895
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                Open 60005 MNTCE31G22.0 60151 MNTCELO3 345 1                          0.00554  0.00000  -571.4  -571.4
1893  -1814.5 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -18.8   -17.3 -0.00080         -0.00089   -19.8   -18.2
              C:022       4                                  3705
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          0.00214  0.02476   409.3   364.4
                Open 60221 KOLMNLK3 345 60251 TERMINL3 345 1                         -0.00180 -0.02267    47.8    88.9
                Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                         -0.00023  0.00036   207.1   206.4
                Open 60251 TERMINL3 345 61492 TERMID1Y 345 1                          0.00089 -0.00166   336.0   339.0
                Open 60252 TERMINL7 115 61492 TERMID1Y 345 1                          0.00234  0.00000     0.2     0.2
                Open 61187 TERTER1934.5 61492 TERMID1Y 345 1     NA
1894  -1811.8 L:60864 TCAAPTP869.0 60921 BIRCH  869.0 1          51.4    47.0  0.00245          0.00119    16.3    14.2
              C:CHI-WYO/LIN7                                 3650
                Open 60196 CHI    7 115 60345 WYOMING7 115 1                         -0.00746 -0.00191    63.9    67.3
                Open 60196 CHI    7 115 60920 LINDSTM7 115 C1                         0.13704  0.00913   259.9   243.4
1895  -1811.0 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          16.1    13.7  0.00132          0.00089    11.3     9.7
              C:60712 ANNDALE869.0 60761 SOUTHVN869.0 1    1410
                Open 60712 ANNDALE869.0 60761 SOUTHVN869.0 1                         -0.32182 -0.00132   -14.9   -12.5
1896  -1810.9 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -51.8   -48.0 -0.00210         -0.00216   -53.9   -50.0
              C:60790 FAIRPRK869.0 60791 FARIBLT869.0 1    1460
                Open 60790 FAIRPRK869.0 60791 FARIBLT869.0 1                         -0.11872 -0.00050   -17.5   -16.6
1900  -1801.1 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -15.4   -13.7 -0.00095         -0.00089   -14.3   -12.7
              C:63051 HENNING4 230 63052 INMAN  4 230 1    2052
                Open 63051 HENNING4 230 63052 INMAN  4 230 1                         -0.00507  0.01089   210.2   190.6
1902  -1797.2 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -52.1   -48.0 -0.00229         -0.00216   -53.9   -50.0
              C:60130 SPLTRTA3 345 66537 WHITE  3 345 1    1008
                Open 60130 SPLTRTA3 345 66537 WHITE  3 345 1                         -0.00306  0.04394  -576.3  -655.2
1903  -1797.0 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -52.1   -48.0 -0.00229         -0.00216   -53.9   -50.0
              C:60126 SPLT RK3 345 60130 SPLTRTA3 345 1    1001
                Open 60126 SPLT RK3 345 60130 SPLTRTA3 345 1                         -0.00306  0.04394  -576.4  -655.3
1904  -1794.1 L:62437 SVEATAP869.0 62438 LITCHTP869.0 1          47.2    41.5  0.00316          0.00195    23.5    20.0
              C:60150 MNVLTAP4 230 63054 PANTHER4 230 1    2952
                Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                          0.07191  0.01687   329.7   299.4
1906  -1791.4 L:60310 MONROCO5 161 60949 MONROCO869.0 1          76.5    70.0  0.00362          0.00246    66.3    61.9
              C:ASK-RRK/ECL3                                 3642
                Open 60186 AS KING3 345 60236 REDROCK3 345 1                         -0.00043 -0.01969   140.3   175.6
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                         -0.00677  0.06362   901.3   787.3
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.02362 -0.06704  -692.1  -572.0
1908  -1787.3 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          45.8    36.0  0.00547          0.00284    33.0    28.0
              C:34008 FOX LK 5 161 61932 RUTLAND5 161 1      28
                Open 34008 FOX LK 5 161 61932 RUTLAND5 161 1                          0.05459  0.04814   233.2   147.2
1909  -1785.3 L:60264 LOON LK7 115 61976 LOON LK869.0 1          84.3    75.0  0.00520          0.00538    85.3    75.7
              C:60108 WILMART3 345 60110 WILMART7 115 1     956
                Open 60108 WILMART3 345 60110 WILMART7 115 1                         -0.01409  0.01312    72.4    49.0
1910  -1779.6 L:60264 LOON LK7 115 61976 LOON LK869.0 1          84.2    75.0  0.00519          0.00538    85.3    75.7
              C:60108 WILMART3 345 60110 WILMART7 115 2     957
                Open 60108 WILMART3 345 60110 WILMART7 115 2                         -0.01434  0.01344    74.2    50.3
1911  -1776.6 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -264.6  -181.0 -0.04707         -0.04429  -244.2  -165.6
              C:34072 FRNKLIN7 115 34571 FRNKLN_Y 161 1     156
                Open 34072 FRNKLIN7 115 34571 FRNKLN_Y 161 1                          0.22419 -0.01241   -91.0   -68.9
1912  -1776.6 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -264.6  -181.0 -0.04707         -0.04429  -244.2  -165.6
              C:34072 FRNKLIN7 115 34077 IA FALS7 115 1     155
                Open 34072 FRNKLIN7 115 34077 IA FALS7 115 1                         -0.22419  0.01241    91.0    68.9
1913  -1776.6 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -264.6  -181.0 -0.04707         -0.04429  -244.2  -165.6
              C:34571 FRNKLN_Y 161 64239 FRANKLN5 161 1    2856
                Open 34571 FRNKLN_Y 161 64239 FRANKLN5 161 1                          0.22419 -0.01241   -91.0   -68.9
1916  -1768.7 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -20.9   -19.3 -0.00093         -0.00094   -19.4   -17.7
              C:60215 HYLNDLK7 115 60261 DEANLAK7 115 1    2972
                Open 60215 HYLNDLK7 115 60261 DEANLAK7 115 1                         -0.01490 -0.00067   103.5   104.7
1917  -1768.3 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -15.4   -13.7 -0.00095         -0.00089   -14.3   -12.8
              C:60760 PAYNES 869.0 62835 ROSCOTP869.0 P1   3125
                Open 60760 PAYNES 869.0 62835 ROSCOTP869.0 P1                        -0.03280  0.00178    31.7    28.5
1918  -1768.2 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -51.4   -48.0 -0.00191         -0.00216   -53.9   -50.1
              C:050    3                                     3717
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.00361 -0.06704  -692.1  -573.6
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                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                          -0.00010 -0.00300     0.0     5.3
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                           0.00008 -0.00148   -42.6   -40.0
1919  -1767.2 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -51.4   -48.0 -0.00191         -0.00216   -53.9   -50.1
              C:39244 ARP 345  345 60304 EAU CL 3 345 1    2888
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.00360 -0.06704  -692.1  -573.6
1921  -1754.0 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -50.6   -47.0 -0.00205         -0.00211   -59.2   -55.5
              C:60107 W FARIB7 115 60792 WFARBLT869.0 P2    954
                Open 60107 W FARIB7 115 60792 WFARBLT869.0 P2                          0.13966  0.00042    61.3    60.6
1924  -1749.7 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -18.8   -17.3 -0.00084         -0.00089   -19.8   -18.2
              C:670     1                                  3728
                Open 60160 SHERCO 3 345 60202 COON CK3 345 1                           0.00332  0.00772   472.9   459.4
                Open 60160 SHERCO 3 345 63031 BUNKER 3 345 1                          -0.01167  0.00766   491.3   477.9
                Open 60202 COON CK3 345 63031 BUNKER 3 345 1                          -0.01500 -0.00803  -364.6  -350.6
                Open 60202 COON CK3 345 61487 CNCMID2Y 345 1                          -0.00104 -0.00154   328.4   331.1
                Open 60203 COON CK7 115 61487 CNCMID2Y 345 1                           0.00255  0.00000     0.1     0.1
                Open 60655 CNCTER2934.5 61487 CNCMID2Y 345 1     NA
                Open 63031 BUNKER 3 345 63046 BUNKER 4 230 1                           0.01651  0.00000     4.3     4.3
1925  -1743.6 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -261.1  -181.0 -0.04596         -0.04429  -244.2  -167.0
              C:PRI-BYN/RRK3                             3646
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                          -0.02199  0.07639   767.2   634.0
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                          -0.00027 -0.01725   152.8   182.8
1926  -1743.1 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -276.0  -200.0 -0.04359         -0.03224  -197.2  -141.0
              C:34016 EMERY  5 161 64252 FLOYD  5 161 1    2719
                Open 34016 EMERY  5 161 64252 FLOYD  5 161 1                          -0.33290  0.03409   236.6   177.2
1927  -1742.9 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -342.3  -318.0 -0.01397         -0.01397  -311.5  -287.2
              C:60002 SHERC33G26.0 60160 SHERCO 3 345 1    2892
                Open 60002 SHERC33G26.0 60160 SHERCO 3 345 1                           0.03521  0.00000  -875.5  -875.5
1928  -1742.7 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -21.3   -19.3 -0.00113         -0.00094   -19.4   -17.8
              C:60105 PR ISLD3 345 61950 BYRON  3 345 1     951
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                          -0.00242  0.07639   767.2   634.1
1929  -1741.3 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -261.0  -181.0 -0.04596         -0.04429  -244.2  -167.1
              C:60105 PR ISLD3 345 61950 BYRON  3 345 1     951
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                          -0.02190  0.07639   767.2   634.2
1930  -1740.8 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -251.5  -181.0 -0.04048         -0.04429  -244.2  -167.1
              C:34087 DYSART 5 161 64269 WASHBRN5 161 1    2772
                Open 34087 DYSART 5 161 64269 WASHBRN5 161 1                          -0.17382 -0.02187    41.7    79.8
1932  -1731.3 L:60310 MONROCO5 161 60949 MONROCO869.0 1          75.8    70.0  0.00334          0.00246    66.3    62.0
              C:60966 JACKCO 869.0 68860 BROCKW_869.0 1    3241
                Open 60966 JACKCO 869.0 68860 BROCKW_869.0 1                           0.42122  0.00208    22.5    18.9
1933  -1730.4 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -20.9   -19.3 -0.00093         -0.00094   -19.4   -17.8
              C:HYL-BLL/DLK7                             3648
                Open 60193 BLUE LK7 115 60215 HYLNDLK7 115 1                          -0.01490 -0.00067   172.8   173.9
                Open 60215 HYLNDLK7 115 60261 DEANLAK7 115 1                           0.01542  0.00000    69.2    69.2
1935  -1722.9 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -51.4   -48.0 -0.00196         -0.00216   -53.9   -50.2
              C:60650 WILMART869.0 60831 EASTWD2869.0 1    1375
                Open 60650 WILMART869.0 60831 EASTWD2869.0 1                           0.05926  0.00322    42.0    36.5
1936  -1722.7 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -21.2   -19.3 -0.00113         -0.00094   -19.4   -17.8
              C:PRI-BYN/RRK3                             3646
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                          -0.00240  0.07639   767.2   635.6
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                           0.00006 -0.01725   152.8   182.5
1937  -1716.5 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -21.0   -19.3 -0.00101         -0.00094   -19.4   -17.8
              C:CNC-KOL/TER3                             3633
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          -0.00158  0.02476   409.3   366.8
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                          -0.00157  0.01934   627.4   594.2
1938  -1714.1 L:60264 LOON LK7 115 61976 LOON LK869.0 1          84.2    75.0  0.00538          0.00538    85.3    76.1
              C:60331 LKFLDXL3 345  6015 G263    34.5 1    3023
                Open 60331 LKFLDXL3 345  6015 G263    34.5 1                           0.01023  0.00000  -104.9  -104.9
1939  -1711.0 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -21.0   -19.3 -0.00101         -0.00094   -19.4   -17.8
              C:022       3                              3704
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          -0.00159  0.02476   409.3   367.0
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                          -0.00158  0.01934   627.4   594.3
                Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                          -0.00001  0.00036   207.1   206.5
                Open 60251 TERMINL3 345 61491 TERMID2Y 345 1                           0.00005 -0.00168   339.2   342.1
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                Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                          0.00061  0.00000     0.2     0.2
                Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
1940  -1709.4 L:60264 LOON LK7 115 61976 LOON LK869.0 1          84.2    75.0  0.00538          0.00538    85.3    76.1
              C:60015 ANSON CG 115 61475 ANS TR2Y 115 2     941
                Open 60015 ANSON CG 115 61475 ANS TR2Y 115 2                          0.00520  0.00000  -211.2  -211.2
1941  -1709.4 L:60264 LOON LK7 115 61976 LOON LK869.0 1          84.2    75.0  0.00538          0.00538    85.3    76.1
              C:60015 ANSON CG 115 60129 SPLT RK7 115 1     940
                Open 60015 ANSON CG 115 60129 SPLT RK7 115 1                          0.00520  0.00000  -211.3  -211.3
1942  -1706.2 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -21.1   -19.3 -0.00106         -0.00094   -19.4   -17.8
              C:60189 BLK DOG4 230 60190 BLK DOG7 115 C1   1120
                Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                        -0.00883  0.01298   192.3   170.1
1943  -1706.2 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -21.1   -19.3 -0.00106         -0.00094   -19.4   -17.8
              C:810   C1                                   3767
                Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                          0.00883 -0.01298  -192.3  -170.1
                Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                         0.00435  0.00000    -0.0    -0.0
1944  -1706.2 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -21.1   -19.3 -0.00106         -0.00094   -19.4   -17.8
              C:60189 BLK DOG4 230 62980 MCLEOD 4 230 1    1121
                Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                          0.00883 -0.01298  -192.3  -170.1
1945  -1703.5 L:60264 LOON LK7 115 61976 LOON LK869.0 1          84.2    75.0  0.00538          0.00538    85.3    76.1
              C:60369 FENTON 7 115  6036 G162    34.5 1    3039
                Open 60369 FENTON 7 115  6036 G162    34.5 1                          0.00566  0.00000  -199.8  -199.8
1946  -1696.2 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -262.2  -181.0 -0.04785         -0.04429  -244.2  -169.1
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                          0.02554 -0.13973  -702.5  -465.5
1947  -1692.0 L:60264 LOON LK7 115 61976 LOON LK869.0 1          84.1    75.0  0.00538          0.00538    85.3    76.2
              C:60287 NOBLES 7 115  6430 G287    34.5 1    3626
                Open 60287 NOBLES 7 115  6430 G287    34.5 1                          0.00596  0.00000  -200.0  -200.0
1948  -1689.7 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -18.7   -17.3 -0.00086         -0.00089   -19.8   -18.3
              C:66503 BLAIR  4 230 66550 GRANITF4 230 1    2447
                Open 66503 BLAIR  4 230 66550 GRANITF4 230 1                          0.00397  0.00970   264.5   248.1
1949  -1689.6 L:60107 W FARIB7 115 61952 S FARIB5 161 1         202.2   173.0  0.01726          0.01457   159.6   135.0
              C:60264 LOON LK7 115 61976 LOON LK869.0 1    1274
                Open 60264 LOON LK7 115 61976 LOON LK869.0 1                          0.49834  0.00538    85.3    76.2
1950  -1689.6 L:60107 W FARIB7 115 61952 S FARIB5 161 1         202.2   173.0  0.01726          0.01457   159.6   135.0
              C:60264 LOON LK7 115  6999 WTV1     115 1    2985
                Open 60264 LOON LK7 115  6999 WTV1     115 1                         -0.49834 -0.00538   -85.3   -76.2
1951  -1686.8 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         218.4   167.0  0.03049          0.03042   207.8   156.5
              C:34091 ARNOLD 5 161 34105 HIAWATA5 161 1     178
                Open 34091 ARNOLD 5 161 34105 HIAWATA5 161 1                          0.06171  0.00122   171.6   169.6
1952  -1685.3 L:60264 LOON LK7 115 61976 LOON LK869.0 1          84.1    75.0  0.00538          0.00538    85.3    76.2
              C:34279 PRAT T 869.0 61972 OWATANA169.0 1     448
                Open 34279 PRAT T 869.0 61972 OWATANA169.0 1                         -0.20326  0.00000     6.0     6.0
1953  -1684.8 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -258.8  -181.0 -0.04615         -0.04429  -244.2  -169.6
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                         -0.01647  0.11317   881.7   691.1
1954  -1682.7 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          15.7    13.7  0.00119          0.00089    11.3     9.8
              C:60189 BLK DOG4 230 60190 BLK DOG7 115 C1   1120
                Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                         0.02300  0.01298   192.3   170.5
1955  -1682.7 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          15.7    13.7  0.00119          0.00089    11.3     9.8
              C:60189 BLK DOG4 230 62980 MCLEOD 4 230 1    1121
                Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                         -0.02300 -0.01298  -192.3  -170.5
1956  -1682.7 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          15.7    13.7  0.00119          0.00089    11.3     9.8
              C:810   C1                                   3767
                Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                         -0.02300 -0.01298  -192.3  -170.5
                Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                        -0.00056  0.00000    -0.0    -0.0
1957  -1681.7 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -21.0   -19.3 -0.00101         -0.00094   -19.4   -17.8
              C:022       1                                3703
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                         -0.00163  0.02476   409.3   367.7
                Open 60221 KOLMNLK3 345 60251 TERMINL3 345 1                          0.00012 -0.02267    47.8    85.9
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                         -0.00150  0.01934   627.4   594.9
                Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                          0.00001  0.00036   207.1   206.5
                Open 60251 TERMINL3 345 61492 TERMID1Y 345 1     NA
                Open 60252 TERMINL7 115 61492 TERMID1Y 345 1                         -0.00000  0.00166  -335.8  -338.6
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                Open 61187 TERTER1934.5 61492 TERMID1Y 345 1     NA
                Open 60251 TERMINL3 345 61491 TERMID2Y 345 1     NA
                Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                          0.00058  0.00000     0.3     0.3
                Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
1958  -1681.2 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -255.5  -181.0 -0.04429         -0.04429  -244.2  -169.8
              C:34090 ARNOLD1G22.0 34091 ARNOLD 5 161 1    2774
                Open 34090 ARNOLD1G22.0 34091 ARNOLD 5 161 1                          0.03041  0.00000  -369.0  -369.0
1959  -1680.2 L:60264 LOON LK7 115 61976 LOON LK869.0 1          83.2    75.0  0.00487          0.00538    85.3    76.3
              C:34298 MEDFRDJ869.0 34299 WASECAJ869.0 1     470
                Open 34298 MEDFRDJ869.0 34299 WASECAJ869.0 1                          0.23587 -0.00218    -9.0    -5.3
1960  -1676.4 L:60264 LOON LK7 115 61976 LOON LK869.0 1          84.0    75.0  0.00538          0.00538    85.3    76.3
              C:67118 LARAM31G24.0 67131 LARAMIE3 345 1    3592
                Open 67118 LARAM31G24.0 67131 LARAMIE3 345 1                          0.00269  0.00000  -475.0  -475.0
1961  -1672.8 L:60264 LOON LK7 115 61976 LOON LK869.0 1          84.0    75.0  0.00538          0.00538    85.3    76.3
              C:67315 COYOTE1G24.0 67316 COYOTE 3 345 1    3613
                Open 67315 COYOTE1G24.0 67316 COYOTE 3 345 1                          0.00302  0.00000  -429.1  -429.1
1962  -1669.4 L:62003 JOHNJCT7 115 63216 ORTONVL7 115 1        -104.1   -96.6 -0.00452         -0.00270   -70.8   -66.3
              C:63327 HANKSON4 230 63329 WAHPETN4 230 1    2190
                Open 63327 HANKSON4 230 63329 WAHPETN4 230 1                         -0.16946  0.01074   196.5   178.5
1963  -1669.3 L:62437 SVEATAP869.0 62438 LITCHTP869.0 1          46.7    41.5  0.00312          0.00195    23.5    20.2
              C:795                                        3765
                Open 60150 MNVLTAP4 230 66550 GRANITF4 230 1                         -0.06917 -0.01397  -311.5  -288.2
                Open 60148 MINVALY7 115 60149 MINVALT4 230 C1                         0.06970  0.00290    18.2    13.4
                Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                         -0.03604  0.00000     0.0     0.0
                Open 60149 MINVALT4 230 60150 MNVLTAP4 230 1     NA
                Open 60742 PANTHER869.0 63054 PANTHER4 230 1                         -0.01049  0.00014   -40.1   -40.3
1964  -1667.8 L:60264 LOON LK7 115 61976 LOON LK869.0 1          84.1    75.0  0.00547          0.00538    85.3    76.3
              C:60130 SPLTRTA3 345 66537 WHITE  3 345 1    1008
                Open 60130 SPLTRTA3 345 66537 WHITE  3 345 1                          0.00204  0.04394  -576.3  -649.6
1965  -1667.8 L:60264 LOON LK7 115 61976 LOON LK869.0 1          84.1    75.0  0.00547          0.00538    85.3    76.3
              C:60126 SPLT RK3 345 60130 SPLTRTA3 345 1    1001
                Open 60126 SPLT RK3 345 60130 SPLTRTA3 345 1                          0.00204  0.04394  -576.4  -649.7
1966  -1666.8 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -258.3  -181.0 -0.04639         -0.04429  -244.2  -170.4
              C:61950 BYRON  3 345 63032 PL VLLY3 345 1    3375
                Open 61950 BYRON  3 345 63032 PL VLLY3 345 1                         -0.02482  0.08464   567.6   426.5
1967  -1664.8 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -51.1   -48.0 -0.00185         -0.00216   -53.9   -50.3
              C:60110 WILMART7 115 60830 EASTWD18 115 P1    968
                Open 60110 WILMART7 115 60830 EASTWD18 115 P1                         0.02046  0.01502   136.8   111.8
1968  -1654.8 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -51.6   -48.0 -0.00216         -0.00216   -48.8   -45.2
              C:60006 KING 31G20.0 60186 AS KING3 345 1    2896
                Open 60006 KING 31G20.0 60186 AS KING3 345 1                          0.00609  0.00000  -461.4  -461.4
1969  -1654.2 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -258.4  -181.0 -0.04682         -0.04429  -244.2  -171.0
              C:60102 ADAMS  3 345 63032 PL VLLY3 345 1    2933
                Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                          0.02605 -0.09714  -545.7  -385.0
1970  -1654.1 L:60264 LOON LK7 115 61976 LOON LK869.0 1          84.0    75.0  0.00542          0.00538    85.3    76.4
              C:009   5                                    3699
                Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                         -0.00163 -0.01568   349.1   375.0
                Open 60270 MPLEGV13 345 63030 DICKNSN3 345 1                          0.00168  0.00909  -455.8  -470.8
                Open 60233 PARKERS3 345 60270 MPLEGV13 345 1                          0.00212  0.00000     2.6     2.6
1971  -1653.9 L:60264 LOON LK7 115 61976 LOON LK869.0 1          84.0    75.0  0.00542          0.00538    85.3    76.4
              C:PKL-DKN/ECK3                               3635
                Open 60233 PARKERS3 345 60270 MPLEGV13 345 1                          0.00168  0.00909  -453.1  -468.1
                Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                         -0.00163 -0.01568   349.1   375.0
1973  -1653.0 L:60264 LOON LK7 115 61976 LOON LK869.0 1          83.9    75.0  0.00538          0.00538    85.3    76.4
              C:67101 ANTELOP3 345 67107 ANTEL32G24.0 1    3586
                Open 67101 ANTELOP3 345 67107 ANTEL32G24.0 1                          0.00336  0.00000  -417.8  -417.8
1974  -1653.0 L:60264 LOON LK7 115 61976 LOON LK869.0 1          83.9    75.0  0.00538          0.00538    85.3    76.4
              C:67101 ANTELOP3 345 67103 ANTEL31G24.0 1    3585
                Open 67101 ANTELOP3 345 67103 ANTEL31G24.0 1                          0.00336  0.00000  -417.8  -417.8
1975  -1651.6 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -51.6   -48.0 -0.00216         -0.00216   -53.9   -50.3
              C:60110 WILMART7 115  8006 G261-CT115.0 1    2939
                Open 60110 WILMART7 115  8006 G261-CT115.0 1                         -0.01359  0.00000  -170.5  -170.5
1976  -1651.6 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -51.6   -48.0 -0.00216         -0.00216   -53.9   -50.3
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              C:60110 WILMART7 115  8007 G261-CT215.0 1    2940
                Open 60110 WILMART7 115  8007 G261-CT215.0 1                          -0.01359  0.00000  -170.5  -170.5
1977  -1647.0 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         218.0   167.0  0.03094          0.03042   207.8   157.7
              C:880                                          3779
                Open 69523 GENOA  5 161 69527 HARMONY5 161 1                          -0.06694 -0.01092   -67.9   -49.9
                Open 34021 LANSINGW 161 69523 GENOA  5 161 1                           0.07349 -0.00286    75.8    80.5
1978  -1643.8 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -51.5   -48.0 -0.00216         -0.00216   -53.9   -50.3
              C:60108 WILMART3 345  8001 G261-ST 19.5 1    2938
                Open 60108 WILMART3 345  8001 G261-ST 19.5 1                          -0.00716  0.00000  -326.0  -326.0
1979  -1642.8 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -19.1   -12.0 -0.00434         -0.00453   -17.8   -10.3
              C:34188 OTTUMWA3 345 64095 MNTZUMA3 345 1    2819
                Open 34188 OTTUMWA3 345 64095 MNTZUMA3 345 1                           0.02315  0.00818   -58.0   -71.5
1980  -1642.8 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -19.1   -12.0 -0.00434         -0.00453   -17.8   -10.3
              C:34189 OTTUMWA5 161 34557 OTTUMWAY 345 1     311
                Open 34189 OTTUMWA5 161 34557 OTTUMWAY 345 1                           0.02315  0.00818   -58.0   -71.4
1981  -1642.8 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -19.1   -12.0 -0.00434         -0.00453   -17.8   -10.3
              C:34188 OTTUMWA3 345 34557 OTTUMWAY 345 1     308
                Open 34188 OTTUMWA3 345 34557 OTTUMWAY 345 1                          -0.02315 -0.00818    58.0    71.4
1982  -1641.1 L:60264 LOON LK7 115 61976 LOON LK869.0 1          83.8    75.0  0.00538          0.00538    85.3    76.5
              C:67105 LELANDO3 345 67111 LELAN32G20.0 1    3588
                Open 67105 LELANDO3 345 67111 LELAN32G20.0 1                           0.00334  0.00000  -438.9  -438.9
1983  -1639.8 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -257.1  -181.0 -0.04638         -0.04429  -244.2  -171.6
              C:34015 LIME CK5 161 34016 EMERY  5 161 1      46
                Open 34015 LIME CK5 161 34016 EMERY  5 161 1                           0.06507 -0.03224  -197.2  -144.4
1984  -1632.7 L:61721 ETCO   7 115 61722 FORBES 7 115 1        -101.3   -98.0 -0.00200         -0.00176   -94.4   -91.5
              C:ASK-CHI/KOL3                                 3641
                Open 60186 AS KING3 345 60199 CHIS CO3 345 1                           0.01098 -0.00535  -490.2  -481.4
                Open 60186 AS KING3 345 60221 KOLMNLK3 345 1                           0.00450 -0.03910  -330.7  -266.9
1985  -1632.7 L:61721 ETCO   7 115 61722 FORBES 7 115 1        -101.3   -98.0 -0.00200         -0.00176   -94.4   -91.5
              C:022       6                                  3707
                Open 60186 AS KING3 345 60199 CHIS CO3 345 1                           0.01098 -0.00535  -490.2  -481.4
                Open 60186 AS KING3 345 60221 KOLMNLK3 345 1                           0.00450 -0.03910  -330.7  -266.9
1986  -1631.7 L:34138 DUNDEE 869.0 34521 GRELYTP869.0 1          29.2    24.0  0.00318          0.00309    22.1    17.0
              C:34128 LIBERTY869.0 34541 LIBERTYY 161 1     232
                Open 34128 LIBERTY869.0 34541 LIBERTYY 161 1                          -0.24137 -0.00039   -29.6   -29.0
1987  -1631.7 L:34138 DUNDEE 869.0 34521 GRELYTP869.0 1          29.2    24.0  0.00318          0.00309    22.1    17.0
              C:34129 LIBERTY5 161 34541 LIBERTYY 161 1     235
                Open 34129 LIBERTY5 161 34541 LIBERTYY 161 1                           0.24137  0.00039    29.6    29.0
1988  -1630.2 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -257.7  -181.0 -0.04707         -0.04429  -244.2  -172.0
              C:34075 ELDORA 7 115 34077 IA FALS7 115 1     160
                Open 34075 ELDORA 7 115 34077 IA FALS7 115 1                           0.22419 -0.01241   -60.2   -40.0
1989  -1629.4 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          89.7    80.0  0.00593          0.00593    81.8    72.1
              C:34146 OTTUMW1G24.0 34189 OTTUMWA5 161 1    2809
                Open 34146 OTTUMW1G24.0 34189 OTTUMWA5 161 1                          -0.01691  0.00000  -466.3  -466.3
1990  -1629.2 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -258.9  -181.0 -0.04784         -0.04429  -244.2  -172.1
              C:34079 TRAER  5 161 34087 DYSART 5 161 1     163
                Open 34079 TRAER  5 161 34087 DYSART 5 161 1                          -0.13930  0.02549   105.6    64.1
1994  -1623.0 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         211.3   167.0  0.02732          0.03042   207.8   158.5
              C:34131 COGGON 7 115 34133 DUNDEE 7 115 1     236
                Open 34131 COGGON 7 115 34133 DUNDEE 7 115 1                           0.63955 -0.00485     5.5    13.3
1995  -1622.6 L:60107 W FARIB7 115 61952 S FARIB5 161 1         206.4   173.0  0.02057          0.01457   159.6   136.0
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                           0.05300  0.11317   881.7   698.1
1996  -1617.5 L:34643 GRRIVER869.0 34644 ELLSTNR869.0 1         -21.4   -12.0 -0.00579         -0.00345   -10.5    -5.0
              C:34585 LORIMRR869.0 34586 LORIMOR869.0 1     685
                Open 34585 LORIMRR869.0 34586 LORIMOR869.0 1                          -0.32289  0.00726    33.5    21.8
1997  -1617.5 L:34643 GRRIVER869.0 34644 ELLSTNR869.0 1         -21.4   -12.0 -0.00579         -0.00345   -10.5    -5.0
              C:34585 LORIMRR869.0 34588 SLAKEN 869.0 1     686
                Open 34585 LORIMRR869.0 34588 SLAKEN 869.0 1                           0.32289 -0.00726   -33.5   -21.8
1998  -1617.2 L:60790 FAIRPRK869.0 60792 WFARBLT869.0 1         -69.4   -66.0 -0.00210         -0.00166   -53.9   -51.3
              C:60790 FAIRPRK869.0 60791 FARIBLT869.0 1    1460
                Open 60790 FAIRPRK869.0 60791 FARIBLT869.0 1                           0.88128 -0.00050   -17.5   -16.7
1999  -1616.9 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -235.2  -167.0 -0.04216         -0.03350  -177.1  -122.9
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              C:61950 BYRON  3 345 63032 PL VLLY3 345 1    3375
                Open 61950 BYRON  3 345 63032 PL VLLY3 345 1                          -0.10236  0.08464   567.6   430.7
2001  -1613.4 L:60264 LOON LK7 115 61976 LOON LK869.0 1          83.7    75.0  0.00538          0.00538    85.3    76.6
              C:34007 LAKEFLD5 161  6006 G262    34.5 1    2709
                Open 34007 LAKEFLD5 161  6006 G262    34.5 1                           0.00807  0.00000  -200.2  -200.2
2002  -1612.3 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         274.4   167.0  0.06663          0.03042   207.8   158.8
              C:34018 HAZLTON3 345 34093 ARNOLD 3 345 1      55
                Open 34018 HAZLTON3 345 34093 ARNOLD 3 345 1                           0.19971  0.18131   333.4    41.1
2003  -1608.8 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         217.4   167.0  0.03135          0.03042   207.8   158.9
              C:34053 MT VERN5 161 34109 BERTRAM5 161 1     118
                Open 34053 MT VERN5 161 34109 BERTRAM5 161 1                          -0.07285 -0.01284  -131.7  -111.1
2006  -1603.2 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         213.3   167.0  0.02887          0.03042   207.8   159.1
              C:34030 SALEM  5 161 34031 SO.GVW.5 161 1      76
                Open 34030 SALEM  5 161 34031 SO.GVW.5 161 1                           0.06929 -0.02238    78.4   114.3
2007  -1602.5 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -250.0  -181.0 -0.04309         -0.04429  -244.2  -173.3
              C:34018 HAZLTON3 345 34020 HAZL S 5 161 2      54
                Open 34018 HAZLTON3 345 34020 HAZL S 5 161 2                          -0.05154 -0.02325   112.9   150.2
2008  -1601.0 L:60238 REDROCK7 115 68966 GLENMONT 115 1         215.2   191.0  0.01511          0.00911   130.2   115.6
              C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.09430  0.06362   901.3   799.5
2009  -1599.4 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -63.3   -58.0 -0.00331         -0.00273   -59.9   -55.6
              C:34650 ARISTAP869.0 34653 CRESTN8_69.0 1     749
                Open 34650 ARISTAP869.0 34653 CRESTN8_69.0 1                           0.16750 -0.00345   -20.0   -14.5
2010  -1598.3 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          15.1    13.7  0.00090          0.00089    11.3     9.9
              C:60162 WAKEFLD7 115 60717 WAKEFLD869.0 1    1080
                Open 60162 WAKEFLD7 115 60717 WAKEFLD869.0 1                           0.10122  0.00009    38.1    38.0
2011  -1597.0 L:60264 LOON LK7 115 61976 LOON LK869.0 1          83.6    75.0  0.00538          0.00538    85.3    76.7
              C:34006 LAKEFLD3 345  3400 G164    34.5 1    2707
                Open 34006 LAKEFLD3 345  3400 G164    34.5 1                           0.00853  0.00000  -199.8  -199.8
2012  -1595.4 L:60264 LOON LK7 115 61976 LOON LK869.0 1          83.6    75.0  0.00538          0.00538    85.3    76.7
              C:63000 COAL 41G22.0 63041 COAL CR4 230 1    3396
                Open 63000 COAL 41G22.0 63041 COAL CR4 230 1                           0.00298  0.00000  -575.2  -575.2
2013  -1595.2 L:60264 LOON LK7 115 61976 LOON LK869.0 1          83.6    75.0  0.00538          0.00538    85.3    76.7
              C:63001 COAL 42G22.0 63041 COAL CR4 230 1    3397
                Open 63001 COAL 42G22.0 63041 COAL CR4 230 1                           0.00298  0.00000  -575.5  -575.5
2014  -1594.9 L:60310 MONROCO5 161 60949 MONROCO869.0 1          74.8    70.0  0.00302          0.00246    66.3    62.4
              C:60952 BANGOR 869.0 60953 WSTSALE869.0 1    1558
                Open 60952 BANGOR 869.0 60953 WSTSALE869.0 1                          -0.51791 -0.00109   -16.4   -14.7
2015  -1594.3 L:60264 LOON LK7 115 61976 LOON LK869.0 1          83.6    75.0  0.00538          0.00538    85.3    76.7
              C:63314 BIGSTON4 230 63315 BIGSTN1G24.0 1    3458
                Open 63314 BIGSTON4 230 63315 BIGSTN1G24.0 1                           0.00369  0.00000  -466.2  -466.2
2016  -1593.2 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -254.7  -181.0 -0.04625         -0.04429  -244.2  -173.7
              C:34068 M-TOWN 5 161 34079 TRAER  5 161 1     151
                Open 34068 M-TOWN 5 161 34079 TRAER  5 161 1                          -0.10878  0.01809    96.2    67.4
2017  -1591.7 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -63.3   -58.0 -0.00331         -0.00273   -59.9   -55.6
              C:34648 LENXTAP869.0 34650 ARISTAP869.0 1     747
                Open 34648 LENXTAP869.0 34650 ARISTAP869.0 1                           0.16750 -0.00345   -19.8   -14.3
2018  -1589.9 L:34265 WALTERS869.0 34285 ALDEN J869.0 1          59.5    44.0  0.00973          0.00555    37.4    28.6
              C:34010 HAYWARD5 161 34013 WNBAGOS5 161 1      33
                Open 34010 HAYWARD5 161 34013 WNBAGOS5 161 1                          -0.12468 -0.03350  -177.1  -123.8
2019  -1587.2 L:34643 GRRIVER869.0 34644 ELLSTNR869.0 1         -21.2   -12.0 -0.00579         -0.00345   -10.5    -5.1
              C:34586 LORIMOR869.0 34587 MURRAY 869.0 1     687
                Open 34586 LORIMOR869.0 34587 MURRAY 869.0 1                          -0.32289  0.00726    33.0    21.5
2020  -1585.4 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -63.2   -58.0 -0.00331         -0.00273   -59.9   -55.6
              C:34647 DIAGONL869.0 34648 LENXTAP869.0 1     745
                Open 34647 DIAGONL869.0 34648 LENXTAP869.0 1                           0.16750 -0.00345   -19.7   -14.2
2022  -1578.2 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -251.7  -181.0 -0.04480         -0.04429  -244.2  -174.3
              C:ASK-RRK/ECL3                               3642
                Open 60186 AS KING3 345 60236 REDROCK3 345 1                          -0.00122 -0.01969   140.3   171.4
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          -0.00714  0.06362   901.3   800.9
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.00125 -0.06704  -692.1  -586.3
2023  -1577.1 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -255.2  -181.0 -0.04707         -0.04429  -244.2  -174.4
              C:34075 ELDORA 7 115 34169 WELSBGT7 115 1     161
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                Open 34075 ELDORA 7 115 34169 WELSBGT7 115 1                          -0.22419  0.01241    49.1    29.5
2024  -1571.7 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         215.0   167.0  0.03052          0.03042   207.8   160.0
              C:34432 WINDSOR869.0 61930 WINDSOR5 161 1     594
                Open 34432 WINDSOR869.0 61930 WINDSOR5 161 1                          -0.18325 -0.00053   -38.8   -38.0
2025  -1570.3 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         217.9   167.0  0.03241          0.03042   207.8   160.1
              C:34431 W UNION869.0 34446 FAYETTE869.0 1     593
                Open 34431 W UNION869.0 34446 FAYETTE869.0 1                           0.59931  0.00332    16.8    11.5
2026  -1569.7 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -63.2   -58.0 -0.00331         -0.00273   -59.9   -55.7
              C:34176 MT AYR 869.0 34647 DIAGONL869.0 1     279
                Open 34176 MT AYR 869.0 34647 DIAGONL869.0 1                           0.16750 -0.00345   -19.4   -14.0
2027  -1568.0 L:34463 LORE W 869.0 34469 GARDLAN869.0 1          39.2    36.0  0.00205          0.00331    28.5    23.3
              C:34032 8TH ST.5 161 34473 DBQ 8TH869.0 1      80
                Open 34032 8TH ST.5 161 34473 DBQ 8TH869.0 1                           0.38718 -0.00326    27.7    32.8
2028  -1566.1 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -251.2  -181.0 -0.04480         -0.04429  -244.2  -174.9
              C:050    2                                   3716
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          -0.00674  0.06362   901.3   801.7
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.00123 -0.06704  -692.1  -587.1
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          -0.00000 -0.00175    77.5    80.2
2029  -1565.6 L:60264 LOON LK7 115 61976 LOON LK869.0 1          83.4    75.0  0.00538          0.00538    85.3    76.9
              C:60331 LKFLDXL3 345 63093 LGS  56Y1.00 1    3022
                Open 60331 LKFLDXL3 345 63093 LGS  56Y1.00 1                           0.01023  0.00000  -183.0  -183.0
2030  -1565.6 L:60264 LOON LK7 115 61976 LOON LK869.0 1          83.4    75.0  0.00538          0.00538    85.3    76.9
              C:60331 LKFLDXL3 345 63091 LGS  12Y1.00 1    3020
                Open 60331 LKFLDXL3 345 63091 LGS  12Y1.00 1                           0.01023  0.00000  -183.0  -183.0
2031  -1565.6 L:60264 LOON LK7 115 61976 LOON LK869.0 1          83.4    75.0  0.00538          0.00538    85.3    76.9
              C:60331 LKFLDXL3 345 63092 LGS  34Y1.00 1    3021
                Open 60331 LKFLDXL3 345 63092 LGS  34Y1.00 1                           0.01023  0.00000  -183.0  -183.0
2032  -1563.6 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -51.5   -48.0 -0.00225         -0.00216   -44.9   -41.5
              C:IVH-BLL/RRK3                              3643
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.01917  0.04835   476.6   401.0
                Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                           0.01602  0.05190   157.6    76.5
2033  -1563.6 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -51.5   -48.0 -0.00225         -0.00216   -44.9   -41.5
              C:700    2                                   3738
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.01917  0.04835   476.6   401.0
                Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                           0.01602  0.05190   157.6    76.5
2034  -1559.1 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -250.8  -181.0 -0.04475         -0.04429  -244.2  -175.2
              C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          -0.00725  0.06362   901.3   802.1
2035  -1556.4 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -21.1   -19.3 -0.00117         -0.00094   -19.4   -17.9
              C:60265 LOON TP7 115  6999 WTV1     115 1    2986
                Open 60265 LOON TP7 115  6999 WTV1     115 1                          -0.04347  0.00538    39.7    31.3
2037  -1553.1 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -250.5  -181.0 -0.04473         -0.04429  -244.2  -175.5
              C:050    1                                   3715
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          -0.00689  0.06362   901.3   802.5
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.00058 -0.06704  -692.1  -588.0
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          -0.00000 -0.00175    77.5    80.2
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                          -0.00769 -0.00300     0.0     4.7
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                          -0.00877 -0.00148   -42.6   -40.3
2038  -1550.2 L:34423 MONONA_869.0 68748 POST    69.0 1         -51.5   -45.0 -0.00417         -0.00284   -27.3   -22.9
              C:34022 LANSING5 161 34023 LANSING869.0 1      63
                Open 34022 LANSING5 161 34023 LANSING869.0 1                          -0.42250  0.00314    57.1    52.3
2039  -1550.0 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         211.7   167.0  0.02887          0.03042   207.8   160.7
              C:34031 SO.GVW.5 161 34032 8TH ST.5 161 1      79
                Open 34031 SO.GVW.5 161 34032 8TH ST.5 161 1                           0.06929 -0.02238    56.3    91.0
2040  -1549.8 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         215.6   167.0  0.03135          0.03042   207.8   160.7
              C:34053 MT VERN5 161 34127 WYOMING5 161 1     119
                Open 34053 MT VERN5 161 34127 WYOMING5 161 1                           0.07285  0.01284   106.4    86.5
2041  -1547.7 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -50.6   -48.0 -0.00170         -0.00216   -53.9   -50.5
              C:60805 WATRVIL869.0 62679 ELYSNTP869.0 1    3152
                Open 60805 WATRVIL869.0 62679 ELYSNTP869.0 1                          -0.14421 -0.00315   -22.5   -17.6
2042  -1546.8 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -19.1   -12.0 -0.00460         -0.00453   -17.8   -10.8
              C:34048 ANITA  5 161 34050 GU CTR 5 161 1     110
                Open 34048 ANITA  5 161 34050 GU CTR 5 161 1                          -0.02227  0.00326    59.8    54.8
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2043  -1546.3 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         214.1   167.0  0.03048          0.03042   207.8   160.8
              C:34101 HIAWATA7 115 34103 MARION 7 115 1     189
                Open 34101 HIAWATA7 115 34103 MARION 7 115 1                          0.11711  0.00053    53.7    52.9
2044  -1543.9 L:60823 REDWING869.0 60824 FRONTNC869.0 1          56.7    48.0  0.00561          0.00360    36.5    30.9
              C:60105 PR ISLD3 345 61950 BYRON  3 345 1     951
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                          0.02629  0.07639   767.2   649.3
2045  -1541.3 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -19.2   -12.0 -0.00465         -0.00453   -17.8   -10.8
              C:050    1                                   3715
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                         -0.00059  0.06362   901.3   803.2
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          0.00118 -0.06704  -692.1  -588.8
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                         -0.00000 -0.00175    77.5    80.2
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                          0.00082 -0.00300     0.0     4.6
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                          0.00069 -0.00148   -42.6   -40.3
2046  -1540.8 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -20.8   -19.3 -0.00099         -0.00094   -19.4   -18.0
              C:009   8                                   3702
                Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                         -0.00035 -0.01568   349.1   373.2
                Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                         -0.00045  0.00782   479.8   467.7
                Open 60202 COON CK3 345 60272 MPLEGV23 345 1                          0.00024  0.00000     4.2     4.2
                Open 60202 COON CK3 345 63030 DICKNSN3 345 1                          0.00273 -0.01742  -393.2  -366.4
                Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                         -0.00002 -0.00156   331.6   334.0
                Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                          0.00026  0.00000     0.1     0.1
                Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1     NA
2047  -1538.4 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -19.4   -12.0 -0.00482         -0.00453   -17.8   -10.8
              C:34202 LUCAS  869.0 34628 CHARITN869.0 1     329
                Open 34202 LUCAS  869.0 34628 CHARITN869.0 1                         -0.22744  0.00131     7.2     5.2
2048  -1535.0 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -19.1   -12.0 -0.00464         -0.00453   -17.8   -10.8
              C:ASK-RRK/ECL3                              3642
                Open 60186 AS KING3 345 60236 REDROCK3 345 1                         -0.00005 -0.01969   140.3   170.5
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                         -0.00062  0.06362   901.3   803.6
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          0.00112 -0.06704  -692.1  -589.2
2049  -1534.0 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         215.2   167.0  0.03140          0.03042   207.8   161.2
              C:34014 ADAMS  5 161 69526 BVR CRK5 161 1    2717
                Open 34014 ADAMS  5 161 69526 BVR CRK5 161 1                          0.04317  0.02271   169.6   134.7
2050  -1530.6 L:60208 EDINA  7 115 60263 EDEN PR7 115 1        -341.0  -318.0 -0.01503         -0.00290  -254.6  -250.1
              C:BLL-PRI/IVH3                              3638
                Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                          0.13390 -0.03964  -143.5   -82.9
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.14107  0.04835   476.6   402.6
2051  -1530.6 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -19.1   -12.0 -0.00464         -0.00453   -17.8   -10.9
              C:050    2                                   3716
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                         -0.00060  0.06362   901.3   803.9
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          0.00112 -0.06704  -692.1  -589.5
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                         -0.00000 -0.00175    77.5    80.2
2052  -1530.0 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         214.5   167.0  0.03107          0.03042   207.8   161.3
              C:34091 ARNOLD 5 161 34111 FAIRFAX5 161 1     179
                Open 34091 ARNOLD 5 161 34111 FAIRFAX5 161 1                          0.04126  0.01574   162.1   138.0
2053  -1529.1 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -52.0   -48.0 -0.00259         -0.00216   -44.9   -41.6
              C:60791 FARIBLT869.0 60794 NRSTRND869.0 P1   1463
                Open 60791 FARIBLT869.0 60794 NRSTRND869.0 P1                        -0.27260  0.00161    25.9    23.4
2054  -1527.4 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -252.2  -181.0 -0.04663         -0.04429  -244.2  -176.6
              C:34061 BNE JCT5 161 64205 FT.DODG5 161 1    2756
                Open 34061 BNE JCT5 161 64205 FT.DODG5 161 1                          0.06139 -0.03824  -130.3   -71.9
2055  -1527.4 L:34590 GRDRVRE869.0 34643 GRRIVER869.0 1          17.5    12.0  0.00359          0.00108     7.4     5.7
              C:34587 MURRAY 869.0 34658 OSCEOLA869.0 1     689
                Open 34587 MURRAY 869.0 34658 OSCEOLA869.0 1                          0.40654  0.00618    24.8    15.4
2056  -1523.1 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -247.5  -181.0 -0.04363         -0.04429  -244.2  -176.8
              C:34018 HAZLTON3 345 34019 HAZLTON5 161 1      53
                Open 34018 HAZLTON3 345 34019 HAZLTON5 161 1                         -0.04066 -0.01603    79.4   103.8
2057  -1522.9 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         214.3   167.0  0.03105          0.03042   207.8   161.5
              C:34431 W UNION869.0 34432 WINDSOR869.0 1     591
                Open 34431 W UNION869.0 34432 WINDSOR869.0 1                         -0.27661 -0.00227   -23.3   -19.8
2058  -1519.2 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         211.7   167.0  0.02943          0.03042   207.8   161.6
              C:34030 SALEM  5 161 34126 MQOKETA5 161 1      77
                Open 34030 SALEM  5 161 34126 MQOKETA5 161 1                         -0.11844  0.00835   -32.6   -45.3
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2059  -1519.2 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         210.7   167.0  0.02879          0.03042   207.8   161.6
              C:34019 HAZLTON5 161 61930 WINDSOR5 161 1      59
                Open 34019 HAZLTON5 161 61930 WINDSOR5 161 1                          0.22859 -0.00715    12.6    23.5
2060  -1518.3 L:60264 LOON LK7 115 61976 LOON LK869.0 1          83.3    75.0  0.00550          0.00538    85.3    77.1
              C:34300 MONTGMY869.0 62876 FRLK TP869.0 1     476
                Open 34300 MONTGMY869.0 62876 FRLK TP869.0 1                          0.35344  0.00032    -5.5    -6.0
2061  -1517.9 L:60264 LOON LK7 115 61976 LOON LK869.0 1          83.4    75.0  0.00554          0.00538    85.3    77.1
              C:34006 LAKEFLD3 345 60286 NOBLES 3 345 C1     20
                Open 34006 LAKEFLD3 345 60286 NOBLES 3 345 C1                         0.00623  0.02531  -303.2  -341.6
2062  -1517.4 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -51.0   -48.0 -0.00199         -0.00216   -48.8   -45.5
              C:60103 CANNFLS5 161 63071 SPRNGCK5 161 1    2934
                Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                          0.05494  0.00307   -41.1   -45.8
2063  -1515.6 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         216.1   167.0  0.03241          0.03042   207.8   161.7
              C:34446 FAYETTE869.0 34447 FAYETTJ869.0 1     612
                Open 34446 FAYETTE869.0 34447 FAYETTJ869.0 1                          0.59931  0.00332    13.8     8.8
2064  -1515.5 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -250.4  -181.0 -0.04580         -0.04429  -244.2  -177.1
              C:34014 ADAMS  5 161 34015 LIME CK5 161 1      42
                Open 34014 ADAMS  5 161 34015 LIME CK5 161 1                          0.05381 -0.02813  -114.8   -72.2
2065  -1515.4 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -20.6   -19.3 -0.00085         -0.00094   -19.4   -18.0
              C:PKL-EDP/BLL3                                 3636
                Open 60233 PARKERS3 345 60262 EDEN PR3 345 1                         -0.00374 -0.01209   257.4   275.7
                Open 60192 BLUE LK3 345 60233 PARKERS3 345 1                          0.00350  0.01266   -63.9   -83.1
2066  -1515.1 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -20.9   -19.3 -0.00103         -0.00094   -19.4   -18.0
              C:60243 SCOTTAP7 115 60244 SCOTTCO7 115 1    1247
                Open 60243 SCOTTAP7 115 60244 SCOTTCO7 115 1                         -0.05907  0.00158    24.8    22.4
2067  -1513.4 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -51.3   -48.0 -0.00221         -0.00216   -44.9   -41.6
              C:60905 FRMNGTN869.0 62259 LKMARN 869.0 1    3207
                Open 60905 FRMNGTN869.0 62259 LKMARN 869.0 1                          0.20992 -0.00024   -30.6   -30.3
2068  -1511.2 L:60264 LOON LK7 115 61976 LOON LK869.0 1          82.7    75.0  0.00510          0.00538    85.3    77.2
              C:60113 DOME   7 115 60830 EASTWD18 115 P1    972
                Open 60113 DOME   7 115 60830 EASTWD18 115 P1                         -0.02696  0.01053    96.2    80.3
2069  -1507.9 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -247.8  -181.0 -0.04429         -0.04429  -244.2  -177.4
              C:34021 LANSINGW 161 34024 LANS5 4G22.0 1    2727
                Open 34021 LANSINGW 161 34024 LANS5 4G22.0 1                          0.02179  0.00000  -163.0  -163.0
2070  -1505.5 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         208.9   167.0  0.02783          0.03042   207.8   162.0
              C:34030 SALEM  5 161 34508 JULIAN 5 161 1      78
                Open 34030 SALEM  5 161 34508 JULIAN 5 161 1                          0.10063 -0.02574    10.4    49.2
2071  -1504.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -51.0   -48.0 -0.00199         -0.00216   -48.8   -45.5
              C:60103 CANNFLS5 161 60104 CANNFLS7 115 1     945
                Open 60103 CANNFLS5 161 60104 CANNFLS7 115 1                         -0.05494 -0.00307    40.7    45.3
2072  -1504.4 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -18.5   -17.3 -0.00079         -0.00089   -19.8   -18.5
              C:62119 THOMPLK869.0 62137 BCKRNSP869.0 1    1758
                Open 62119 THOMPLK869.0 62137 BCKRNSP869.0 1                         -0.13539 -0.00074    -9.6    -8.5
2073  -1503.2 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         214.0   167.0  0.03125          0.03042   207.8   162.1
              C:34423 MONONA_869.0 69307 FARMBURG69.0 1     580
                Open 34423 MONONA_869.0 69307 FARMBURG69.0 1                          0.13799  0.00601    44.4    35.4
2074  -1502.6 L:60264 LOON LK7 115 61976 LOON LK869.0 1          82.7    75.0  0.00510          0.00538    85.3    77.2
              C:60110 WILMART7 115 60113 DOME   7 115 C1    963
                Open 60110 WILMART7 115 60113 DOME   7 115 C1                         -0.02696  0.01053    97.9    82.0
2075  -1502.0 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -51.0   -48.0 -0.00199         -0.00216   -48.8   -45.5
              C:740    2                                     3755
                Open 60103 CANNFLS5 161 60104 CANNFLS7 115 1                         -0.05494 -0.00307    40.7    45.3
                Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                          0.01291  0.00000     0.4     0.4
2076  -1498.8 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -18.5   -17.3 -0.00079         -0.00089   -19.8   -18.5
              C:62125 BECKER 869.0 62137 BCKRNSP869.0 1    1766
                Open 62125 BECKER 869.0 62137 BCKRNSP869.0 1                          0.13539  0.00074     9.7     8.5
2077  -1497.3 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -19.2   -12.0 -0.00481         -0.00453   -17.8   -11.0
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                          0.00202 -0.13973  -702.5  -493.3
2078  -1496.3 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -19.3   -12.0 -0.00491         -0.00453   -17.8   -11.0
              C:34060 WNTRST 5 161 66560 CRESTON5 161 1     135
                Open 34060 WNTRST 5 161 66560 CRESTON5 161 1                          0.03892 -0.00986   -40.2   -25.5
2079  -1495.1 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         213.7   167.0  0.03125          0.03042   207.8   162.4
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              C:34894 NATIONT869.0 69307 FARMBURG69.0 1     939
                Open 34894 NATIONT869.0 69307 FARMBURG69.0 1                          -0.13799 -0.00601   -42.6   -33.6
2080  -1495.1 L:60264 LOON LK7 115 61976 LOON LK869.0 1          83.4    75.0  0.00560          0.00538    85.3    77.3
              C:760                                         3759
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 1                          -0.00637 -0.01692   149.9   175.2
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                          -0.00637 -0.01725   152.8   178.6
2081  -1495.1 L:60264 LOON LK7 115 61976 LOON LK869.0 1          83.4    75.0  0.00560          0.00538    85.3    77.3
              C:PRI-RRK/RRK3                                3644
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 1                          -0.00637 -0.01692   149.9   175.2
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                          -0.00637 -0.01725   152.8   178.6
2082  -1493.7 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         211.3   167.0  0.02964          0.03042   207.8   162.4
              C:34038 BVR CH 5 161 34044 ALBANY 5 161 1      92
                Open 34038 BVR CH 5 161 34044 ALBANY 5 161 1                           0.03971 -0.01966    86.3   115.6
2083  -1493.5 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -247.1  -181.0 -0.04429         -0.04429  -244.2  -178.1
              C:34098 PR CRK4G18.0 34099 PRAR CK7 115 1    2782
                Open 34098 PR CRK4G18.0 34099 PRAR CK7 115 1                           0.02205  0.00000  -132.0  -132.0
2084  -1493.2 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         213.7   167.0  0.03125          0.03042   207.8   162.4
              C:34427 BIGSPRT869.0 34894 NATIONT869.0 1     586
                Open 34427 BIGSPRT869.0 34894 NATIONT869.0 1                          -0.13799 -0.00601   -42.1   -33.2
2085  -1492.4 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -247.6  -181.0 -0.04461         -0.04429  -244.2  -178.1
              C:39244 ARP 345  345 60304 EAU CL 3 345 1    2888
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.00484 -0.06704  -692.1  -592.1
2086  -1491.8 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -246.4  -181.0 -0.04381         -0.04429  -244.2  -178.2
              C:34036 ROCK CK3 345 36382 QUAD ;   345 1    2734
                Open 34036 ROCK CK3 345 36382 QUAD ;   345 1                           0.00876  0.05461  -242.5  -323.9
2087  -1491.1 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         288.9   217.0  0.04823          0.03409   236.6   185.8
              C:34018 HAZLTON3 345 60102 ADAMS  3 345 1      56
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                          -0.09953 -0.14203  -525.7  -313.9
2088  -1488.5 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -247.2  -181.0 -0.04445         -0.04429  -244.2  -178.3
              C:795                                         3765
                Open 60150 MNVLTAP4 230 66550 GRANITF4 230 1                           0.00952 -0.01397  -311.5  -290.7
                Open 60148 MINVALY7 115 60149 MINVALT4 230 C1                         -0.00947  0.00290    18.2    13.9
                Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                          -0.00395  0.00000     0.0     0.0
                Open 60149 MINVALT4 230 60150 MNVLTAP4 230 1     NA
                Open 60742 PANTHER869.0 63054 PANTHER4 230 1                          -0.00518  0.00014   -40.1   -40.3
2089  -1487.8 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -247.6  -181.0 -0.04473         -0.04429  -244.2  -178.3
              C:34014 ADAMS  5 161 69526 BVR CRK5 161 1    2717
                Open 34014 ADAMS  5 161 69526 BVR CRK5 161 1                          -0.01958  0.02271   169.6   135.8
2090  -1485.4 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -247.5  -181.0 -0.04479         -0.04429  -244.2  -178.4
              C:BLL-PRI/IVH3                                3638
                Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                           0.00675 -0.03964  -143.5   -84.7
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.00490  0.04835   476.6   404.8
2091  -1484.6 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -247.3  -181.0 -0.04469         -0.04429  -244.2  -178.5
              C:34022 LANSING5 161 69531 POSTVIL5 161 1    2731
                Open 34022 LANSING5 161 69531 POSTVIL5 161 1                          -0.04281  0.00950    72.9    58.8
2092  -1484.1 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -246.9  -181.0 -0.04442         -0.04429  -244.2  -178.5
              C:60150 MNVLTAP4 230 63054 PANTHER4 230 1    2952
                Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                          -0.00820  0.01687   329.7   304.7
2093  -1479.8 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -18.9   -12.0 -0.00463         -0.00453   -17.8   -11.1
              C:050    3                                    3717
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.00150 -0.06704  -692.1  -592.9
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                           0.00087 -0.00300     0.0     4.4
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                           0.00073 -0.00148   -42.6   -40.4
2094  -1479.7 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -246.7  -181.0 -0.04441         -0.04429  -244.2  -178.7
              C:34068 M-TOWN 5 161 34528 M-TOWN Y 161 1     153
                Open 34068 M-TOWN 5 161 34528 M-TOWN Y 161 1                           0.06407 -0.00190   -38.7   -35.9
2095  -1479.7 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -246.7  -181.0 -0.04441         -0.04429  -244.2  -178.7
              C:34066 M-TOWN 7 115 34528 M-TOWN Y 161 1     147
                Open 34066 M-TOWN 7 115 34528 M-TOWN Y 161 1                          -0.06407  0.00190    38.7    35.9
2096  -1479.5 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -236.3  -181.0 -0.03739         -0.04429  -244.2  -178.7
              C:34019 HAZLTON5 161 64250 BLKHAWK5 161 1    2725
                Open 34019 HAZLTON5 161 64250 BLKHAWK5 161 1                          -0.17098 -0.04036   -46.3    13.4
2097  -1478.4 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -246.8  -181.0 -0.04454         -0.04429  -244.2  -178.8
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              C:050    3                                   3717
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          0.00430 -0.06704  -692.1  -593.0
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                         -0.00711 -0.00300     0.0     4.4
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                         -0.00836 -0.00148   -42.6   -40.4
2098  -1477.5 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -247.4  -181.0 -0.04493         -0.04429  -244.2  -178.8
              C:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1     114
                Open 34051 TOLEDO 7 115 34066 M-TOWN 7 115 1                          0.04202 -0.01539   -75.2   -52.5
2099  -1477.2 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -246.6  -181.0 -0.04443         -0.04429  -244.2  -178.8
              C:62980 MCLEOD 4 230 63054 PANTHER4 230 1    3394
                Open 62980 MCLEOD 4 230 63054 PANTHER4 230 1                          0.00872 -0.01700  -276.4  -251.3
2100  -1476.7 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -50.9   -48.0 -0.00197         -0.00216   -44.9   -41.7
              C:SPC-PRI/CTF5                              3682
                Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                         -0.04135 -0.00257   118.9   122.7
                Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                          0.02632  0.00307   -41.1   -45.6
2101  -1474.9 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -15.4   -13.7 -0.00112         -0.00089   -14.3   -13.0
              C:700    1                                  3737
                Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                          0.00234 -0.03964  -143.5   -85.1
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.00081  0.04835   476.6   405.3
                Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                         -0.00182  0.05190   157.6    81.1
2102  -1473.6 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -247.2  -181.0 -0.04489         -0.04429  -244.2  -179.0
              C:34009 WINBAGO5 161 61932 RUTLAND5 161 1      32
                Open 34009 WINBAGO5 161 61932 RUTLAND5 161 1                          0.01188 -0.05102  -245.9  -170.7
2103  -1473.5 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         213.2   167.0  0.03135          0.03042   207.8   163.0
              C:34126 MQOKETA5 161 34127 WYOMING5 161 1     227
                Open 34126 MQOKETA5 161 34127 WYOMING5 161 1                         -0.07285 -0.01284   -73.5   -54.6
2104  -1473.2 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -247.0  -181.0 -0.04483         -0.04429  -244.2  -179.0
              C:700    1                                  3737
                Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                          0.00697 -0.03964  -143.5   -85.1
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.00304  0.04835   476.6   405.4
                Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                         -0.00229  0.05190   157.6    81.1
2105  -1470.9 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -18.9   -12.0 -0.00467         -0.00453   -17.8   -11.1
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                         -0.00122  0.11317   881.7   715.3
2106  -1470.9 L:34013 WNBAGOS5 161 34258 WBGOJ S869.0 1          37.1    30.0  0.00482          0.00274    26.1    22.1
              C:34010 HAYWARD5 161 34013 WNBAGOS5 161 1      33
                Open 34010 HAYWARD5 161 34013 WNBAGOS5 161 1                         -0.06218 -0.03350  -177.1  -127.8
2107  -1467.0 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -246.1  -181.0 -0.04439         -0.04429  -244.2  -179.3
              C:ASK-CHI/KOL3                              3641
                Open 60186 AS KING3 345 60199 CHIS CO3 345 1                          0.00235 -0.00535  -490.2  -482.3
                Open 60186 AS KING3 345 60221 KOLMNLK3 345 1                          0.00221 -0.03910  -330.7  -273.4
2108  -1467.0 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -246.1  -181.0 -0.04439         -0.04429  -244.2  -179.3
              C:022       6                               3707
                Open 60186 AS KING3 345 60199 CHIS CO3 345 1                          0.00235 -0.00535  -490.2  -482.3
                Open 60186 AS KING3 345 60221 KOLMNLK3 345 1                          0.00221 -0.03910  -330.7  -273.4
2109  -1466.4 L:34590 GRDRVRE869.0 34643 GRRIVER869.0 1          17.3    12.0  0.00359          0.00108     7.4     5.8
              C:34658 OSCEOLA869.0 34659 OSCEREC869.0 1     755
                Open 34658 OSCEOLA869.0 34659 OSCEREC869.0 1                          0.40654  0.00618    24.3    15.2
2110  -1466.1 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -246.3  -181.0 -0.04454         -0.04429  -244.2  -179.3
              C:60265 LOON TP7 115 60830 EASTWD18 115 P1   1275
                Open 60265 LOON TP7 115 60830 EASTWD18 115 P1                         0.00989 -0.02555  -209.2  -171.8
2111  -1466.0 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         211.5   167.0  0.03037          0.03042   207.8   163.3
              C:34067 6 ST   5 161 34091 ARNOLD 5 161 1     148
                Open 34067 6 ST   5 161 34091 ARNOLD 5 161 1                         -0.04123  0.00119   -89.2   -90.9
2112  -1466.0 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         211.5   167.0  0.03037          0.03042   207.8   163.3
              C:34097 6 ST   7 115 34527 6 ST   Y 161 1     185
                Open 34097 6 ST   7 115 34527 6 ST   Y 161 1                         -0.04123  0.00119   -89.2   -90.9
2113  -1466.0 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         211.5   167.0  0.03037          0.03042   207.8   163.3
              C:34067 6 ST   5 161 34527 6 ST   Y 161 1     149
                Open 34067 6 ST   5 161 34527 6 ST   Y 161 1                          0.04123 -0.00119    89.2    90.9
2114  -1465.2 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         245.0   167.0  0.05325          0.03042   207.8   163.3
              C:34093 ARNOLD 3 345 64352 TIFFIN 3 345 1    2777
                Open 34093 ARNOLD 3 345 64352 TIFFIN 3 345 1                          0.10723  0.21292   346.7    34.7
2115  -1464.9 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -246.8  -181.0 -0.04494         -0.04429  -244.2  -179.4
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              C:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1     145
                Open 34066 M-TOWN 7 115 34085 BLRSTWN7 115 1                          -0.04003  0.01629    65.0    41.1
2116  -1464.5 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         211.2   167.0  0.03015          0.03042   207.8   163.3
              C:34036 ROCK CK3 345 34037 ROCK CK5 161 1      86
                Open 34036 ROCK CK3 345 34037 ROCK CK5 161 1                           0.01783 -0.01484   186.0   207.7
2117  -1464.0 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         211.5   167.0  0.03042          0.03042   207.8   163.3
              C:34039 BVRCH52G20.0 34042 BVR CH65 161 1    2736
                Open 34039 BVRCH52G20.0 34042 BVR CH65 161 1                          -0.03151  0.00000  -117.0  -117.0
2118  -1464.0 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -246.5  -181.0 -0.04472         -0.04429  -244.2  -179.4
              C:34010 HAYWARD5 161 34015 LIME CK5 161 1      35
                Open 34010 HAYWARD5 161 34015 LIME CK5 161 1                           0.04187 -0.01032   -53.4   -38.3
2119  -1463.2 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -246.5  -181.0 -0.04475         -0.04429  -244.2  -179.4
              C:34008 FOX LK 5 161 61932 RUTLAND5 161 1      28
                Open 34008 FOX LK 5 161 61932 RUTLAND5 161 1                          -0.00965  0.04814   233.2   162.8
2120  -1463.0 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -246.2  -181.0 -0.04453         -0.04429  -244.2  -179.4
              C:61948 BYRON  5 161 61964 OWATNNA5 161 1    1696
                Open 61948 BYRON  5 161 61964 OWATNNA5 161 1                           0.01221 -0.02028  -157.4  -127.8
2121  -1462.8 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -19.1   -12.0 -0.00488         -0.00453   -17.8   -11.2
              C:825                                        3771
                Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                           0.00028 -0.09714  -545.7  -403.6
                Open 34014 ADAMS  5 161 60102 ADAMS  3 345 1                          -0.00000  0.02245    -2.8   -35.7
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                           0.00228 -0.14203  -525.7  -317.9
2122  -1462.4 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.9  -181.0 -0.04436         -0.04429  -244.2  -179.5
              C:CNC-KOL/TER3                               3633
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          -0.00167  0.02476   409.3   373.1
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                          -0.00152  0.01934   627.4   599.2
2123  -1461.8 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -246.7  -181.0 -0.04493         -0.04429  -244.2  -179.5
              C:34010 HAYWARD5 161 61984 AUSTIN 5 161 1    2711
                Open 34010 HAYWARD5 161 61984 AUSTIN 5 161 1                          -0.02191  0.02924   111.6    68.9
2124  -1460.9 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -243.0  -181.0 -0.04242         -0.04429  -244.2  -179.5
              C:34020 HAZL S 5 161 64269 WASHBRN5 161 1    2726
                Open 34020 HAZL S 5 161 64269 WASHBRN5 161 1                          -0.08562 -0.02178   -14.7    17.2
2125  -1460.8 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.8  -181.0 -0.04436         -0.04429  -244.2  -179.5
              C:022       3                                3704
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          -0.00175  0.02476   409.3   373.2
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                          -0.00163  0.01934   627.4   599.2
                Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                           0.00013  0.00036   207.1   206.6
                Open 60251 TERMINL3 345 61491 TERMID2Y 345 1                           0.00041 -0.00168   339.2   341.6
                Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                          -0.00265  0.00000     0.2     0.2
                Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
2126  -1460.6 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         211.4   167.0  0.03042          0.03042   207.8   163.4
              C:X0897-0898o1                               3647
                Open 60193 BLUE LK7 115 60215 HYLNDLK7 115 1                           0.00031 -0.00067   172.8   173.7
                Open 60215 HYLNDLK7 115 60261 DEANLAK7 115 1     NA
                Open 60244 SCOTTCO7 115 60261 DEANLAK7 115 1                           0.03108  0.00000   113.6   113.6
2127  -1460.5 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         210.9   167.0  0.03007          0.03042   207.8   163.4
              C:PRI-RRK/RRK3                               3644
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 1                           0.01016 -0.01692   149.9   174.6
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                           0.01016 -0.01725   152.8   178.0
2128  -1460.5 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         210.9   167.0  0.03007          0.03042   207.8   163.4
              C:760                                        3759
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 1                           0.01016 -0.01692   149.9   174.6
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                           0.01016 -0.01725   152.8   178.0
2129  -1460.2 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -50.9   -48.0 -0.00197         -0.00216   -44.9   -41.8
              C:740    1                                   3754
                Open 60103 CANNFLS5 161 63071 SPRNGCK5 161 1                           0.02632  0.00307   -41.1   -45.6
                Open 60106 PR ISLD5 161 63071 SPRNGCK5 161 1                          -0.04135 -0.00257   118.9   122.7
                Open 60103 CANNFLS5 161 60104 CANNFLS7 115 1                           0.07231  0.00000     0.4     0.4
2130  -1460.0 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         214.3   167.0  0.03241          0.03042   207.8   163.4
              C:34447 FAYETTJ869.0 34486 MARYTAP869.0 1     614
                Open 34447 FAYETTJ869.0 34486 MARYTAP869.0 1                           0.59931  0.00332    10.8     6.0
2131  -1459.9 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -246.0  -181.0 -0.04453         -0.04429  -244.2  -179.6
              C:BYN-WOW/KAN5                               3653
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                Open 61948 BYRON  5 161 61964 OWATNNA5 161 1                          0.01221 -0.02028  -157.4  -127.8
                Open 60799 KASSON 869.0 61161 BYRON  869.0 1                          0.00519  0.00000    26.8    26.8
2132  -1459.0 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         211.2   167.0  0.03029          0.03042   207.8   163.5
              C:34021 LANSINGW 161 69523 GENOA  5 161 1    2728
                Open 34021 LANSINGW 161 69523 GENOA  5 161 1                          0.04422 -0.00286    75.8    79.9
2133  -1458.7 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.6  -181.0 -0.04429         -0.04429  -244.2  -179.6
              C:34039 BVRCH52G20.0 34042 BVR CH65 161 1    2736
                Open 34039 BVRCH52G20.0 34042 BVR CH65 161 1                          0.01171  0.00000  -117.0  -117.0
2134  -1458.4 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.7  -181.0 -0.04439         -0.04429  -244.2  -179.6
              C:810   C1                                   3767
                Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                          0.00783 -0.01298  -192.3  -173.4
                Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                        -0.00292  0.00000    -0.0    -0.0
2135  -1458.4 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.7  -181.0 -0.04439         -0.04429  -244.2  -179.6
              C:60189 BLK DOG4 230 62980 MCLEOD 4 230 1    1121
                Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                          0.00783 -0.01298  -192.3  -173.4
2136  -1458.4 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.7  -181.0 -0.04439         -0.04429  -244.2  -179.6
              C:60189 BLK DOG4 230 60190 BLK DOG7 115 C1   1120
                Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                        -0.00783  0.01298   192.3   173.4
2137  -1457.4 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.7  -181.0 -0.04437         -0.04429  -244.2  -179.7
              C:500                                        3718
                Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                          0.00767 -0.01028  -216.5  -201.6
                Open 62427 WILLMAR869.0 63050 WILLMAR4 230 1                         -0.00607  0.00004   -38.4   -38.5
2138  -1456.8 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.5  -181.0 -0.04430         -0.04429  -244.2  -179.7
              C:63369 JAMESTN3 345 66791 CENTER 3 345 1    2199
                Open 63369 JAMESTN3 345 66791 CENTER 3 345 1                          0.00310 -0.00471  -422.3  -415.4
2139  -1456.7 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.5  -181.0 -0.04429         -0.04429  -244.2  -179.7
              C:60122 LAWRENC7 115 60834 LAWRENC869.0 1     992
                Open 60122 LAWRENC7 115 60834 LAWRENC869.0 1                         -0.02044  0.00000    62.7    62.7
2140  -1456.6 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         211.1   167.0  0.03031          0.03042   207.8   163.5
              C:34105 HIAWATA5 161 34535 HIAWATAY 161 1     193
                Open 34105 HIAWATA5 161 34535 HIAWATAY 161 1                          0.06669 -0.00171    49.4    51.9
2141  -1456.6 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         211.1   167.0  0.03031          0.03042   207.8   163.5
              C:34101 HIAWATA7 115 34535 HIAWATAY 161 1     190
                Open 34101 HIAWATA7 115 34535 HIAWATAY 161 1                         -0.06669  0.00171   -49.4   -51.9
2142  -1456.2 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.5  -181.0 -0.04429         -0.04429  -244.2  -179.7
              C:34075 ELDORA 7 115 34158 ELDORA 934.5 1    2764
                Open 34075 ELDORA 7 115 34158 ELDORA 934.5 1                         -0.11309  0.00000    11.1    11.1
2143  -1455.9 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -246.2  -181.0 -0.04476         -0.04429  -244.2  -179.8
              C:34191 REASNOR5 161 64062 DMOINES5 161 1    2820
                Open 34191 REASNOR5 161 64062 DMOINES5 161 1                          0.01565 -0.03041  -124.0   -79.7
2144  -1455.9 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -246.4  -181.0 -0.04493         -0.04429  -244.2  -179.8
              C:34051 TOLEDO 7 115 34083 BL.PLN.7 115 1     115
                Open 34051 TOLEDO 7 115 34083 BL.PLN.7 115 1                         -0.04202  0.01539    52.0    29.6
2145  -1455.8 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.6  -181.0 -0.04440         -0.04429  -244.2  -179.8
              C:60309 MRSHLND5 161 69543 ALMA   5 161 1    3011
                Open 60309 MRSHLND5 161 69543 ALMA   5 161 1                          0.00868 -0.01291  -161.6  -142.8
2146  -1455.7 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.5  -181.0 -0.04434         -0.04429  -244.2  -179.8
              C:63329 WAHPETN4 230 63331 FERGSFL4 230 1    2192
                Open 63329 WAHPETN4 230 63331 FERGSFL4 230 1                         -0.00498  0.01091   264.8   248.9
2147  -1455.4 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.6  -181.0 -0.04438         -0.04429  -244.2  -179.8
              C:022       1                                3703
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                         -0.00203  0.02476   409.3   373.3
                Open 60221 KOLMNLK3 345 60251 TERMINL3 345 1                          0.00101 -0.02267    47.8    80.8
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                         -0.00102  0.01934   627.4   599.3
                Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                          0.00031  0.00036   207.1   206.6
                Open 60251 TERMINL3 345 61492 TERMID1Y 345 1     NA
                Open 60252 TERMINL7 115 61492 TERMID1Y 345 1                         -0.00000  0.00166  -335.8  -338.3
                Open 61187 TERTER1934.5 61492 TERMID1Y 345 1     NA
                Open 60251 TERMINL3 345 61491 TERMID2Y 345 1     NA
                Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                         -0.00295  0.00000     0.3     0.3
                Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
2148  -1454.7 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.5  -181.0 -0.04436         -0.04429  -244.2  -179.8
              C:60156 PYNSVIL7 115 60356 PAYNES 4 230 C1   1069
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                Open 60156 PYNSVIL7 115 60356 PAYNES 4 230 C1                          0.00742 -0.01032  -175.7  -160.7
2149  -1454.7 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.5  -181.0 -0.04436         -0.04429  -244.2  -179.8
              C:60356 PAYNES 4 230 63050 WILLMAR4 230 C1   1365
                Open 60356 PAYNES 4 230 63050 WILLMAR4 230 C1                          0.00742 -0.01032  -175.7  -160.7
2150  -1454.4 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.4  -181.0 -0.04430         -0.04429  -244.2  -179.8
              C:63358 BUFFALO3 345 63369 JAMESTN3 345 1    2195
                Open 63358 BUFFALO3 345 63369 JAMESTN3 345 1                           0.00310 -0.00471  -387.9  -381.1
2151  -1454.3 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.6  -181.0 -0.04441         -0.04429  -244.2  -179.8
              C:60107 W FARIB7 115 61952 S FARIB5 161 1     955
                Open 60107 W FARIB7 115 61952 S FARIB5 161 1                          -0.00850  0.01457   159.6   138.5
2152  -1453.8 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.6  -181.0 -0.04441         -0.04429  -244.2  -179.8
              C:61952 S FARIB5 161 61964 OWATNNA5 161 1    1697
                Open 61952 S FARIB5 161 61964 OWATNNA5 161 1                          -0.00850  0.01457   157.1   135.9
2153  -1453.8 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.4  -181.0 -0.04430         -0.04429  -244.2  -179.8
              C:63358 BUFFALO3 345 66792 MAPLE R3 345 1    2196
                Open 63358 BUFFALO3 345 66792 MAPLE R3 345 1                          -0.00310  0.00471   379.1   372.2
2154  -1453.4 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -238.8  -181.0 -0.03980         -0.04429  -244.2  -179.9
              C:63713 OSGOOD 5 161 66563 SPENCER5 161 1    3461
                Open 63713 OSGOOD 5 161 66563 SPENCER5 161 1                          -0.03133 -0.14331  -172.0    36.3
2155  -1453.1 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.4  -181.0 -0.04429         -0.04429  -244.2  -179.9
              C:34395 EMERY S869.0 34403 CL LAKT869.0 1     552
                Open 34395 EMERY S869.0 34403 CL LAKT869.0 1                          -0.04442  0.00000    25.3    25.3
2156  -1452.1 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.7  -181.0 -0.04457         -0.04429  -244.2  -179.9
              C:34010 HAYWARD5 161 34013 WNBAGOS5 161 1      33
                Open 34010 HAYWARD5 161 34013 WNBAGOS5 161 1                           0.00841 -0.03350  -177.1  -128.4
2157  -1451.6 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.5  -181.0 -0.04441         -0.04429  -244.2  -179.9
              C:60192 BLUE LK3 345 60217 INVRHLS3 345 1    1126
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.00260  0.04835   476.6   406.4
2158  -1451.6 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -246.8  -181.0 -0.04532         -0.04429  -244.2  -179.9
              C:34084 PARNEL 5 161 34185 POWESHK5 161 1     173
                Open 34084 PARNEL 5 161 34185 POWESHK5 161 1                           0.02382 -0.04352  -107.5   -44.3
2159  -1451.2 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.5  -181.0 -0.04444         -0.04429  -244.2  -180.0
              C:60107 W FARIB7 115 60265 LOON TP7 115 C1    952
                Open 60107 W FARIB7 115 60265 LOON TP7 115 C1                          0.00753 -0.02017  -166.9  -137.6
2160  -1450.9 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.3  -181.0 -0.04434         -0.04429  -244.2  -180.0
              C:63050 WILLMAR4 230 66550 GRANITF4 230 1    2051
                Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                           0.00509 -0.01028  -216.5  -201.6
2161  -1450.8 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.3  -181.0 -0.04432         -0.04429  -244.2  -180.0
              C:60133 SHEYNNE4 230 63336 AUDUBON4 230 1    1013
                Open 60133 SHEYNNE4 230 63336 AUDUBON4 230 1                          -0.00424  0.00860   253.4   241.0
2162  -1450.6 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.3  -181.0 -0.04434         -0.04429  -244.2  -180.0
              C:63051 HENNING4 230 63331 FERGSFL4 230 1    2053
                Open 63051 HENNING4 230 63331 FERGSFL4 230 1                           0.00496 -0.01089  -219.8  -204.0
2163  -1450.1 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -19.1   -12.0 -0.00487         -0.00453   -17.8   -11.2
              C:34018 HAZLTON3 345 60102 ADAMS  3 345 1      56
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                           0.00244 -0.14203  -525.7  -319.8
2164  -1450.0 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.3  -181.0 -0.04435         -0.04429  -244.2  -180.0
              C:61611 WINGRIV4 230 63052 INMAN  4 230 1    3357
                Open 61611 WINGRIV4 230 63052 INMAN  4 230 1                           0.00552 -0.01196  -196.1  -178.8
2165  -1449.7 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -246.3  -181.0 -0.04502         -0.04429  -244.2  -180.0
              C:34185 POWESHK5 161 34191 REASNOR5 161 1     300
                Open 34185 POWESHK5 161 34191 REASNOR5 161 1                           0.01542 -0.04760  -132.1   -63.1
2166  -1449.6 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         209.1   167.0  0.02902          0.03042   207.8   163.8
              C:34044 ALBANY 5 161 34046 YORK   5 161 1     106
                Open 34044 ALBANY 5 161 34046 YORK   5 161 1                           0.11120 -0.01262    10.9    29.2
2167  -1449.6 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.9  -181.0 -0.04480         -0.04429  -244.2  -180.0
              C:34054 GR JCT 5 161 63771 DRAGER 5 161 1    2748
                Open 34054 GR JCT 5 161 63771 DRAGER 5 161 1                           0.01376 -0.03698  -123.9   -70.3
2168  -1449.5 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.3  -181.0 -0.04434         -0.04429  -244.2  -180.0
              C:63051 HENNING4 230 63052 INMAN  4 230 1    2052
                Open 63051 HENNING4 230 63052 INMAN  4 230 1                          -0.00496  0.01089   210.2   194.4
2169  -1449.1 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.3  -181.0 -0.04436         -0.04429  -244.2  -180.1
              C:66530 WATERTN4 230 66550 GRANITF4 230 1    2501
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                Open 66530 WATERTN4 230 66550 GRANITF4 230 1                          -0.00549  0.01320   191.8   172.7
2170  -1449.0 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.2  -181.0 -0.04433         -0.04429  -244.2  -180.1
              C:63053 HUBBARD4 230 63336 AUDUBON4 230 1    3405
                Open 63053 HUBBARD4 230 63336 AUDUBON4 230 1                           0.00500 -0.00856  -200.4  -188.0
2171  -1448.3 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -246.0  -181.0 -0.04486         -0.04429  -244.2  -180.1
              C:LAKF-FOX DBL                               3781
                Open 34007 LAKEFLD5 161 34008 FOX LK 5 161 1                          -0.01069  0.02660    78.8    40.3
                Open 34007 LAKEFLD5 161 34008 FOX LK 5 161 2                          -0.01069  0.02728    84.2    44.7
2172  -1448.2 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.3  -181.0 -0.04441         -0.04429  -244.2  -180.1
              C:34182 WAPELLO5 161 34183 JEFF   5 161 1     292
                Open 34182 WAPELLO5 161 34183 JEFF   5 161 1                          -0.00754  0.01653   143.8   119.8
2173  -1447.3 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.3  -181.0 -0.04442         -0.04429  -244.2  -180.1
              C:34371 RICE   869.0 34415 CRESCO 869.0 1     526
                Open 34371 RICE   869.0 34415 CRESCO 869.0 1                          -0.03065  0.00424    34.3    28.2
2174  -1446.6 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.5  -181.0 -0.04459         -0.04429  -244.2  -180.2
              C:34179 JASPER 5 161 64189 NEANKNY5 161 1    2816
                Open 34179 JASPER 5 161 64189 NEANKNY5 161 1                           0.01463 -0.02084   -87.3   -57.1
2175  -1446.5 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.9  -181.0 -0.04486         -0.04429  -244.2  -180.2
              C:34054 GR JCT 5 161 34058 PERRY  5 161 1     120
                Open 34054 GR JCT 5 161 34058 PERRY  5 161 1                          -0.01581  0.03623   105.0    52.6
2176  -1446.5 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.6  -181.0 -0.04467         -0.04429  -244.2  -180.2
              C:34010 HAYWARD5 161 34014 ADAMS  5 161 1      34
                Open 34010 HAYWARD5 161 34014 ADAMS  5 161 1                          -0.01737  0.02214    79.8    47.7
2177  -1445.2 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.9  -181.0 -0.04494         -0.04429  -244.2  -180.2
              C:34085 BLRSTWN7 115 34099 PRAR CK7 115 1     175
                Open 34085 BLRSTWN7 115 34099 PRAR CK7 115 1                          -0.04003  0.01629    42.8    19.3
2178  -1444.2 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.5  -181.0 -0.04465         -0.04429  -244.2  -180.3
              C:61930 WINDSOR5 161 69531 POSTVIL5 161 1    3374
                Open 61930 WINDSOR5 161 69531 POSTVIL5 161 1                           0.04771 -0.00767   -26.3   -15.3
2179  -1441.4 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         211.6   167.0  0.03091          0.03042   207.8   164.0
              C:34107 BEVERLY5 161 34111 FAIRFAX5 161 1     197
                Open 34107 BEVERLY5 161 34111 FAIRFAX5 161 1                          -0.02990 -0.01648  -124.0  -100.3
2180  -1439.1 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -245.4  -181.0 -0.04477         -0.04429  -244.2  -180.5
              C:34052 AMES   7 115 34076 BNE JCT7 115 1     117
                Open 34052 AMES   7 115 34076 BNE JCT7 115 1                           0.03199 -0.01508   -37.4   -15.7
2181  -1438.6*L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -246.2  -181.0 -0.04532         -0.04429  -244.2  -180.5
              C:34084 PARNEL 5 161 64351 HILLS  5 161 1    2769
                Open 34084 PARNEL 5 161 64351 HILLS  5 161 1                          -0.02382  0.04352    82.7    20.1
2182  -1437.5 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         210.7   167.0  0.03042          0.03042   207.8   164.1
              C:MOL-RIV/CNC7                               3679
                Open 60203 COON CK7 115 60229 MOORELK7 115 1                          -0.00005  0.00098   139.6   138.2
                Open 60229 MOORELK7 115 60240 RIVRSID7 115 1                           0.03001  0.00000    96.2    96.2
2183  -1436.9 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1          -20.7   -19.3 -0.00099         -0.00094   -19.4   -18.1
              C:009   4                                    3698
                Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                          -0.00040  0.00782   479.8   468.5
                Open 60202 COON CK3 345 60272 MPLEGV23 345 1                           0.00031  0.00000     4.2     4.2
                Open 60202 COON CK3 345 63030 DICKNSN3 345 1                           0.00286 -0.01742  -393.2  -368.2
                Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                          -0.00002 -0.00156   331.6   333.8
                Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                           0.00033  0.00000     0.1     0.1
                Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1     NA
2188  -1433.1 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         210.8   167.0  0.03053          0.03042   207.8   164.3
              C:61906 MAPLE LF 161 61948 BYRON  5 161 1    3372
                Open 61906 MAPLE LF 161 61948 BYRON  5 161 1                          -0.00940 -0.01203  -309.4  -292.2
2190  -1431.4 L:34641 KELLERT869.0 34643 GRRIVER869.0 1          -19.2   -12.0 -0.00505         -0.00453   -17.8   -11.3
              C:34185 POWESHK5 161 34191 REASNOR5 161 1     300
                Open 34185 POWESHK5 161 34191 REASNOR5 161 1                           0.01090 -0.04760  -132.1   -64.0
2191  -1429.8 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1          -20.7   -19.3 -0.00099         -0.00094   -19.4   -18.1
              C:CNC-DKN/SHC3                               3634
                Open 60202 COON CK3 345 63030 DICKNSN3 345 1                           0.00286 -0.01742  -393.2  -368.3
                Open 60202 COON CK3 345 60272 MPLEGV23 345 1                           0.00041 -0.00782  -475.5  -464.3
2192  -1427.8 L:64256 UNIONTP5 161 64285 BUTLER 5 161 1        -244.2  -181.0 -0.04429
                Base Case
2195  -1426.9 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         206.7   167.0  0.02783          0.03042   207.8   164.4
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                C:34026 ASBURY 5 161 34027 CNTRGRV5 161 1      66
                  Open 34026 ASBURY 5 161 34027 CNTRGRV5 161 1                          -0.10063  0.02574    11.3   -25.4
2196  -1426.6 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         210.7   167.0  0.03065          0.03042   207.8   164.5
                C:60309 MRSHLND5 161 69543 ALMA   5 161 1    3011
                  Open 60309 MRSHLND5 161 69543 ALMA   5 161 1                          -0.01780 -0.01291  -161.6  -143.2
2197  -1426.2 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         210.6   167.0  0.03058          0.03042   207.8   164.5
                C:66506 FTTHOMP3 345 66571 GR ISLD3 345 1    3552
                  Open 66506 FTTHOMP3 345 66571 GR ISLD3 345 1                           0.00653  0.02536   425.1   389.0
2198  -1424.8 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -51.0   -48.0 -0.00214         -0.00216   -53.9   -50.8
                C:60107 W FARIB7 115 60792 WFARBLT869.0 1     953
                  Open 60107 W FARIB7 115 60792 WFARBLT869.0 1                           0.09961  0.00020    28.4    28.2
2199  -1424.0 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -20.6   -19.3 -0.00091         -0.00094   -19.4   -18.1
                C:60256 WSTGATE7 115 60257 BLUFFCK7 115 1    1264
                  Open 60256 WSTGATE7 115 60257 BLUFFCK7 115 1                          -0.01517 -0.00195    78.7    81.5
2200  -1423.2 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         213.1   167.0  0.03241          0.03042   207.8   164.6
                C:34486 MARYTAP869.0 34488 HAHNTAP869.0 1     650
                  Open 34486 MARYTAP869.0 34488 HAHNTAP869.0 1                           0.59931  0.00332     8.8     4.1
2201  -1423.0 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         210.1   167.0  0.03032          0.03042   207.8   164.6
                C:61948 BYRON  5 161 61950 BYRON  3 345 1    1695
                  Open 61948 BYRON  5 161 61950 BYRON  3 345 1                          -0.01236  0.00825  -185.7  -197.4
2203  -1420.8 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         206.5   167.0  0.02778          0.03042   207.8   164.6
                C:34093 ARNOLD 3 345 34534 ARNOLD Y 345 1     181
                  Open 34093 ARNOLD 3 345 34534 ARNOLD Y 345 1                           0.08360 -0.03161   -16.5    28.4
2204  -1420.8 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         206.5   167.0  0.02778          0.03042   207.8   164.6
                C:34091 ARNOLD 5 161 34534 ARNOLD Y 345 1     180
                  Open 34091 ARNOLD 5 161 34534 ARNOLD Y 345 1                          -0.08360  0.03161    16.5   -28.4
2205  -1420.5 L:60107 W FARIB7 115 62865 AIRTECH7 115 1        -141.5  -139.0 -0.00175          0.00497   -85.8   -92.9
                C:60107 W FARIB7 115 60265 LOON TP7 115 C1    952
                  Open 60107 W FARIB7 115 60265 LOON TP7 115 C1                          0.33340 -0.02017  -166.9  -138.3
2206  -1418.4 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -51.4   -48.0 -0.00243         -0.00216   -48.8   -45.7
                C:60192 BLUE LK3 345 60217 INVRHLS3 345 1    1126
                  Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.00564  0.04835   476.6   408.0
2207  -1418.3 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         210.1   167.0  0.03042          0.03042   207.8   164.7
                C:RRK-BCK/MAX7                               3671
                  Open 60238 REDROCK7 115 60266 BATTCRK7 115 P2                          0.00081 -0.00337    45.3    50.1
                  Open 60238 REDROCK7 115 60336 NSSJCT 7 115 1                           0.03102  0.00000    72.7    72.7
2209  -1417.3 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         211.0   167.0  0.03107          0.03042   207.8   164.7
                C:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1     114
                  Open 34051 TOLEDO 7 115 34066 M-TOWN 7 115 1                          -0.04245 -0.01539   -75.2   -53.4
2210  -1416.8 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         210.1   167.0  0.03042          0.03042   207.8   164.7
                C:60238 REDROCK7 115 60336 NSSJCT 7 115 1    1236
                  Open 60238 REDROCK7 115 60336 NSSJCT 7 115 1                           0.03095  0.00000    72.7    72.7
2211  -1416.7 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         210.1   167.0  0.03042          0.03042   207.8   164.8
                C:60336 NSSJCT 7 115 60337 NSSTAP 7 115 1    1361
                  Open 60336 NSSJCT 7 115 60337 NSSTAP 7 115 1                           0.03095  0.00000    72.7    72.7
2212  -1415.2 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         210.1   167.0  0.03042          0.03042   207.8   164.8
                C:HYL-BLL/DLK7                               3648
                  Open 60193 BLUE LK7 115 60215 HYLNDLK7 115 1                           0.00031 -0.00067   172.8   173.7
                  Open 60215 HYLNDLK7 115 60261 DEANLAK7 115 1                           0.03108  0.00000    69.2    69.2
2213  -1414.4 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         211.2   167.0  0.03127          0.03042   207.8   164.8
                C:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1     145
                  Open 34066 M-TOWN 7 115 34085 BLRSTWN7 115 1                           0.05193  0.01629    65.0    42.0
2214  -1414.1 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         210.7   167.0  0.03091          0.03042   207.8   164.8
                C:34106 PCI    5 161 34107 BEVERLY5 161 1     194
                  Open 34106 PCI    5 161 34107 BEVERLY5 161 1                          -0.02990 -0.01648   -95.9   -72.6
2215  -1412.2 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         210.0   167.0  0.03047          0.03042   207.8   164.9
                C:WLR-ASK/PNL7                               3690
                  Open 60187 AS KING7 115 60325 WILOWRV7 115 1                           0.00634  0.00755   169.3   158.6
                  Open 60313 PINE LK7 115 60325 WILOWRV7 115 1                           0.02336  0.00000    47.3    47.3
2216  -1411.4 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         209.5   167.0  0.03013          0.03042   207.8   164.9
                C:34099 PRAR CK7 115 34103 MARION 7 115 1     186
                  Open 34099 PRAR CK7 115 34103 MARION 7 115 1                           0.05449 -0.00539    30.7    38.3
2217  -1408.0 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -18.6   -17.3 -0.00091         -0.00089   -19.8   -18.5
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              C:62982 HUTCHMN7 115 62986 HUTCHMN869.0 1    2025
                Open 62982 HUTCHMN7 115 62986 HUTCHMN869.0 1                                0.15145 -0.00010     8.0     8.2
2218  -1407.2 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -20.6   -19.3 -0.00089         -0.00094   -19.4   -18.1
              C:61948 BYRON  5 161 61950 BYRON  3 345 1    1695
                Open 61948 BYRON  5 161 61950 BYRON  3 345 1                                0.00619  0.00825  -185.7  -197.3
2221  -1404.7 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -18.9   -12.0 -0.00488         -0.00453   -17.8   -11.4
              C:34060 WNTRST 5 161 64197 NORWLK5  161 1    2754
                Open 34060 WNTRST 5 161 64197 NORWLK5  161 1                               -0.03486  0.01020    30.9    16.5
2224  -1403.7 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         210.3   167.0  0.03081          0.03042   207.8   165.1
              C:34015 LIME CK5 161 34016 EMERY  5 161 1      46
                Open 34015 LIME CK5 161 34016 EMERY  5 161 1                               -0.01220 -0.03224  -197.2  -152.0
2227  -1402.4 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         210.1   167.0  0.03070          0.03042   207.8   165.2
              C:34427 BIGSPRT869.0 34452 ELKADER869.0 1     585
                Open 34427 BIGSPRT869.0 34452 ELKADER869.0 1                                0.09585  0.00298    23.1    18.9
2228  -1401.0 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         209.6   167.0  0.03042          0.03042   207.8   165.2
              C:815                                        3769
                Open 62225 BURNVIL7 115 62226 FISCHER7 115 1                               -0.00045  0.00202     1.1    -1.7
                Open 60343 WILLPIP7 115 62226 FISCHER7 115 1     NA
                Open 60343 WILLPIP7 115 62228 APPVLTW7 115 1     NA
                Open 62227 JOHNCAK7 115 62228 APPVLTW7 115 1                                0.03172  0.00000    55.9    55.9
2229  -1400.4 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         209.6   167.0  0.03042          0.03042   207.8   165.2
              C:62123 WOODCRT869.0 62132 PRKWOOD869.0 1    1764
                Open 62123 WOODCRT869.0 62132 PRKWOOD869.0 1                                0.02985  0.00000    58.7    58.7
2232  -1400.1 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         209.4   167.0  0.03032          0.03042   207.8   165.3
              C:34037 ROCK CK5 161 34042 BVR CH65 161 1      87
                Open 34037 ROCK CK5 161 34042 BVR CH65 161 1                                0.01394 -0.00729   114.9   125.1
2233  -1399.8 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         209.6   167.0  0.03042          0.03042   207.8   165.3
              C:715       2                                3746
                Open 60243 SCOTTAP7 115 62666 GLNDALE7 115 1                               -0.00013  0.00356    48.9    44.0
                Open 60242 SAVAGE 7 115 62668 EGLCKTP7 115 1     NA
                Open 62666 GLNDALE7 115 62672 GLNDALE869.0 1                               -0.00024  0.00008    25.1    24.9
                Open 60243 SCOTTAP7 115 60244 SCOTTCO7 115 1                               -0.00021  0.00158    24.8    22.6
                Open 60194 CARVRCO7 115 60243 SCOTTAP7 115 1                                0.03104  0.00000     1.5     1.5
                Open 60194 CARVRCO7 115 60931 CARVRCO869.0 1                               -0.00008 -0.00021    19.7    20.0
                Open 60190 BLK DOG7 115 60242 SAVAGE 7 115 1                               -0.00052 -0.00055    29.6    30.3
                Open 62668 EGLCKTP7 115 62975 SHAKOPE7 115 1     NA
                Open 60244 SCOTTCO7 115 62975 SHAKOPE7 115 1                                0.03125  0.00000    55.2    55.2
                Open 60244 SCOTTCO7 115 60890 SCOTTCO869.0 2                               -0.00012 -0.00079    23.8    24.9
2234  -1399.8 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -252.9  -200.0 -0.03778         -0.03224  -197.2  -152.1
              C:60105 PR ISLD3 345 61950 BYRON  3 345 1     951
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                               -0.07256  0.07639   767.2   660.3
2238  -1399.3 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         209.6   167.0  0.03042          0.03042   207.8   165.3
              C:695                                        3736
                Open 62925 DICKNSN7 115 62926 DCKSNSS7 115 1                                0.00048  0.00122    26.6    24.9
                Open 60155 PULASKI7 115 62926 DCKSNSS7 115 1     NA
                Open 60153 MNTCELO7 115 60155 PULASKI7 115 1                                0.02998  0.00000    57.0    57.0
2239  -1398.8 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         209.6   167.0  0.03042          0.03042   207.8   165.3
              C:715       5                                3749
                Open 60190 BLK DOG7 115 60242 SAVAGE 7 115 1                               -0.00047 -0.00055    29.6    30.3
                Open 60242 SAVAGE 7 115 62668 EGLCKTP7 115 1     NA
                Open 62668 EGLCKTP7 115 62975 SHAKOPE7 115 1     NA
                Open 60244 SCOTTCO7 115 62975 SHAKOPE7 115 1                                0.03120  0.00000    55.2    55.2
                Open 60244 SCOTTCO7 115 60890 SCOTTCO869.0 2                               -0.00015 -0.00079    23.8    24.9
2240  -1398.7 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         209.5   167.0  0.03042          0.03042   207.8   165.3
              C:34098 PR CRK4G18.0 34099 PRAR CK7 115 1    2782
                Open 34098 PR CRK4G18.0 34099 PRAR CK7 115 1                               -0.01289  0.00000  -132.0  -132.0
2241  -1398.7 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -252.8  -200.0 -0.03778         -0.03224  -197.2  -152.1
              C:PRI-BYN/RRK3                               3646
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                               -0.07253  0.07639   767.2   660.4
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                                0.00011 -0.01725   152.8   176.9
2242  -1398.6 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         209.5   167.0  0.03042          0.03042   207.8   165.3
              C:715       1                                3745
                Open 60200 BLK DG27 115 62666 GLNDALE7 115 1                               -0.00024 -0.00339     1.6     6.4
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                Open 60190 BLK DOG7 115 60242 SAVAGE 7 115 1                        -0.00053 -0.00055    29.6    30.3
                Open 62666 GLNDALE7 115 62672 GLNDALE869.0 2                        -0.00019  0.00008    25.1    24.9
                Open 60242 SAVAGE 7 115 62668 EGLCKTP7 115 1     NA
                Open 62668 EGLCKTP7 115 62975 SHAKOPE7 115 1     NA
                Open 60244 SCOTTCO7 115 62975 SHAKOPE7 115 1                         0.03125  0.00000    55.2    55.2
                Open 60244 SCOTTCO7 115 60890 SCOTTCO869.0 2                        -0.00013 -0.00079    23.8    24.9
2243  -1398.5 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         209.5   167.0  0.03042          0.03042   207.8   165.3
              C:60122 LAWRENC7 115 60834 LAWRENC869.0 1     992
                Open 60122 LAWRENC7 115 60834 LAWRENC869.0 1                         0.02706  0.00000    62.7    62.7
2244  -1397.8 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         209.5   167.0  0.03042          0.03042   207.8   165.3
              C:60146 GRANCTY7 115 60161 STREGIS7 115 1    1043
                Open 60146 GRANCTY7 115 60161 STREGIS7 115 1                         0.02945  0.00000    56.8    56.8
2245  -1397.6 L:60264 LOON LK7 115 61976 LOON LK869.0 1          82.7    75.0  0.00550          0.00538    85.3    77.8
              C:34299 WASECAJ869.0 62876 FRLK TP869.0 1     474
                Open 34299 WASECAJ869.0 62876 FRLK TP869.0 1                        -0.35344 -0.00032     7.4     7.9
2248  -1394.5 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         209.7   167.0  0.03061          0.03042   207.8   165.4
              C:34423 MONONA_869.0 68748 POST    69.0 1    2848
                Open 34423 MONONA_869.0 68748 POST    69.0 1                        -0.06735 -0.00284   -27.3   -23.4
2249  -1394.3 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         209.7   167.0  0.03061          0.03042   207.8   165.4
              C:34006 LAKEFLD3 345 63875 RAUN   3 345 1    2708
                Open 34006 LAKEFLD3 345 63875 RAUN   3 345 1                         0.00614  0.03120   298.4   254.9
2253  -1393.4 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -18.8   -12.0 -0.00488         -0.00453   -17.8   -11.5
              C:34054 GR JCT 5 161 34058 PERRY  5 161 1     120
                Open 34054 GR JCT 5 161 34058 PERRY  5 161 1                        -0.00962  0.03623   105.0    54.5
2254  -1392.0 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         209.7   167.0  0.03067          0.03042   207.8   165.5
              C:34072 FRNKLIN7 115 34077 IA FALS7 115 1     155
                Open 34072 FRNKLIN7 115 34077 IA FALS7 115 1                         0.02034  0.01241    91.0    73.7
2255  -1392.0 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         209.7   167.0  0.03067          0.03042   207.8   165.5
              C:34571 FRNKLN_Y 161 64239 FRANKLN5 161 1    2856
                Open 34571 FRNKLN_Y 161 64239 FRANKLN5 161 1                        -0.02034 -0.01241   -91.0   -73.7
2256  -1392.0 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         209.7   167.0  0.03067          0.03042   207.8   165.5
              C:34072 FRNKLIN7 115 34571 FRNKLN_Y 161 1     156
                Open 34072 FRNKLIN7 115 34571 FRNKLN_Y 161 1                        -0.02034 -0.01241   -91.0   -73.7
2257  -1392.0 L:34590 GRDRVRE869.0 34643 GRRIVER869.0 1          17.0    12.0  0.00359          0.00108     7.4     5.9
              C:34640 WODBURN869.0 34659 OSCEREC869.0 1     739
                Open 34640 WODBURN869.0 34659 OSCEREC869.0 1                        -0.40654 -0.00618   -23.6   -15.1
2259  -1390.6 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -61.5   -58.0 -0.00251         -0.00273   -59.9   -56.1
              C:34188 OTTUMWA3 345 64095 MNTZUMA3 345 1    2819
                Open 34188 OTTUMWA3 345 64095 MNTZUMA3 345 1                         0.02671  0.00818   -58.0   -69.4
2260  -1390.5 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -61.5   -58.0 -0.00251         -0.00273   -59.9   -56.1
              C:34188 OTTUMWA3 345 34557 OTTUMWAY 345 1     308
                Open 34188 OTTUMWA3 345 34557 OTTUMWAY 345 1                        -0.02671 -0.00818    58.0    69.4
2261  -1390.5 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -61.5   -58.0 -0.00251         -0.00273   -59.9   -56.1
              C:34189 OTTUMWA5 161 34557 OTTUMWAY 345 1     311
                Open 34189 OTTUMWA5 161 34557 OTTUMWAY 345 1                         0.02671  0.00818   -58.0   -69.4
2268  -1388.7 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         209.5   167.0  0.03061          0.03042   207.8   165.6
              C:34182 WAPELLO5 161 34183 JEFF   5 161 1     292
                Open 34182 WAPELLO5 161 34183 JEFF   5 161 1                         0.01156  0.01653   143.8   120.8
2270  -1388.3 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         209.2   167.0  0.03042          0.03042   207.8   165.6
              C:67101 ANTELOP3 345 67218 AVSDC7TY 345 1    2598
                Open 67101 ANTELOP3 345 67218 AVSDC7TY 345 1                         0.02637  0.00000    52.5    52.5
2274  -1387.4 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         209.2   167.0  0.03042          0.03042   207.8   165.6
              C:34395 EMERY S869.0 34403 CL LAKT869.0 1     552
                Open 34395 EMERY S869.0 34403 CL LAKT869.0 1                         0.05367  0.00000    25.3    25.3
2276  -1386.8 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         209.1   167.0  0.03038          0.03042   207.8   165.7
              C:60131 SPLTRTB3 345 66564 SIOUXCY3 345 1    1009
                Open 60131 SPLTRTB3 345 66564 SIOUXCY3 345 1                         0.00238 -0.01463   543.3   563.6
2277  -1386.8 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         209.1   167.0  0.03038          0.03042   207.8   165.7
              C:60126 SPLT RK3 345 60131 SPLTRTB3 345 1    1002
                Open 60126 SPLT RK3 345 60131 SPLTRTB3 345 1                         0.00238 -0.01463   543.3   563.6
2278  -1386.0 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         206.6   167.0  0.02857          0.03042   207.8   165.7
              C:34020 HAZL S 5 161 64269 WASHBRN5 161 1    2726
                Open 34020 HAZL S 5 161 64269 WASHBRN5 161 1                         0.08478 -0.02178   -14.7    15.5
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2279  -1386.0 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         209.2   167.0  0.03048          0.03042   207.8   165.7
              C:61051 STCRFL5G 161 69565 APL RVR5 161 C1   3302
                Open 61051 STCRFL5G 161 69565 APL RVR5 161 C1                          0.00573  0.01032   244.1   229.8
2281  -1385.6 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         210.1   167.0  0.03107          0.03042   207.8   165.7
              C:34051 TOLEDO 7 115 34083 BL.PLN.7 115 1     115
                Open 34051 TOLEDO 7 115 34083 BL.PLN.7 115 1                           0.04245  0.01539    52.0    30.7
2282  -1385.6 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         209.2   167.0  0.03042          0.03042   207.8   165.7
              C:61161 BYRON  869.0 61948 BYRON  5 161 1    1679
                Open 61161 BYRON  869.0 61948 BYRON  5 161 1                           0.04060  0.00000    32.1    32.1
2283  -1385.2 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         209.2   167.0  0.03048          0.03042   207.8   165.7
              C:61051 STCRFL5G 161 61131 LAW CRK5 161 C1   1652
                Open 61051 STCRFL5G 161 61131 LAW CRK5 161 C1                         -0.00573 -0.01032  -239.9  -225.6
2284  -1385.2 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         209.2   167.0  0.03048          0.03042   207.8   165.7
              C:CNC-KOL/TER3                               3633
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                           0.00148  0.02476   409.3   375.0
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                           0.00123  0.01934   627.4   600.6
2285  -1384.6 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         209.1   167.0  0.03042          0.03042   207.8   165.7
              C:62113 NORTHTW869.0 62123 WOODCRT869.0 1    1749
                Open 62113 NORTHTW869.0 62123 WOODCRT869.0 1                           0.02985  0.00000    42.6    42.6
2288  -1383.7 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         209.2   167.0  0.03049          0.03042   207.8   165.8
              C:60316 TREMVAL5 161 69543 ALMA   5 161 1    3013
                Open 60316 TREMVAL5 161 69543 ALMA   5 161 1                          -0.01054 -0.00706  -127.7  -117.9
2291  -1383.6 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         209.4   167.0  0.03068          0.03042   207.8   165.8
              C:34427 BIGSPRT869.0 68738 BIGSPRNG69.0 1     587
                Open 34427 BIGSPRT869.0 68738 BIGSPRNG69.0 1                           0.08494  0.00303    18.8    14.6
2292  -1383.3 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         209.5   167.0  0.03070          0.03042   207.8   165.8
              C:34452 ELKADER869.0 34453 GARNVLO869.0 1     619
                Open 34452 ELKADER869.0 34453 GARNVLO869.0 1                           0.09585  0.00298    17.0    12.9
2293  -1383.0*L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         206.6   167.0  0.02866          0.03042   207.8   165.8
              C:34016 EMERY  5 161 34017 CGORDO_5 161 1      49
                Open 34016 EMERY  5 161 34017 CGORDO_5 161 1                           0.02303 -0.07625   -52.3    53.2
2311  -1378.3 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -62.7   -58.0 -0.00341         -0.00273   -59.9   -56.2
              C:34060 WNTRST 5 161 66560 CRESTON5 161 1     135
                Open 34060 WNTRST 5 161 66560 CRESTON5 161 1                           0.06835 -0.00986   -40.2   -26.6
2326  -1374.2 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         282.8   217.0  0.04785          0.03409   236.6   189.7
              C:825                                        3771
                Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                           0.02551 -0.09714  -545.7  -412.2
                Open 34014 ADAMS  5 161 60102 ADAMS  3 345 1                           0.00000  0.02245    -2.8   -33.7
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                          -0.11429 -0.14203  -525.7  -330.5
2333  -1371.1 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         271.6   217.0  0.03981          0.03409   236.6   189.8
              C:34015 LIME CK5 161 34016 EMERY  5 161 1      46
                Open 34015 LIME CK5 161 34016 EMERY  5 161 1                          -0.17746 -0.03224  -197.2  -153.0
2339  -1366.3 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -18.4   -17.3 -0.00077         -0.00089   -19.8   -18.6
              C:62437 SVEATAP869.0 62438 LITCHTP869.0 1    1902
                Open 62437 SVEATAP869.0 62438 LITCHTP869.0 1                           0.06130  0.00195    23.5    20.8
2340  -1365.4 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -18.1   -17.3 -0.00059         -0.00089   -19.8   -18.6
              C:62939 SILVERC869.0 62944 GOOSETP869.0 1    2012
                Open 62939 SILVERC869.0 62944 GOOSETP869.0 1                          -0.30520 -0.00098    -5.5    -4.2
2358  -1353.3 L:34590 GRDRVRE869.0 34643 GRRIVER869.0 1          16.9    12.0  0.00359          0.00108     7.4     5.9
              C:34625 LACONA 869.0 34640 WODBURN869.0 1     726
                Open 34625 LACONA 869.0 34640 WODBURN869.0 1                          -0.40654 -0.00618   -23.3   -14.9
2359  -1353.3 L:34590 GRDRVRE869.0 34643 GRRIVER869.0 1          16.9    12.0  0.00359          0.00108     7.4     5.9
              C:34625 LACONA 869.0 34627 LUCAS T869.0 1     725
                Open 34625 LACONA 869.0 34627 LUCAS T869.0 1                           0.40654  0.00618    23.3    14.9
2367  -1342.8 L:34020 HAZL S 5 161 34135 DUNDEE 5 161 1         207.8   167.0  0.03042
                Base Case
2371  -1337.3 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          14.8    13.7  0.00086          0.00089    11.3    10.1
              C:62122 WESTEND869.0 62138 BRGGLKS869.0 1    1763
                Open 62122 WESTEND869.0 62138 BRGGLKS869.0 1                          -0.15187  0.00024   -23.5   -23.8
2376  -1328.7 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -51.4   -48.0 -0.00259         -0.00216   -44.9   -42.0
              C:60794 NRSTRND869.0 62389 KENYON 869.0 1    3143
                Open 60794 NRSTRND869.0 62389 KENYON 869.0 1                          -0.27260  0.00161    24.0    21.8
2377  -1327.6 L:34061 BNE JCT5 161 34076 BNE JCT7 115 2          73.3    60.0  0.01003          0.00666    48.7    39.8
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              C:34061 BNE JCT5 161 34076 BNE JCT7 115 3     138
                Open 34061 BNE JCT5 161 34076 BNE JCT7 115 3                          0.76556  0.00441    32.2    26.4
2379  -1326.5 L:34590 GRDRVRE869.0 34643 GRRIVER869.0 1          16.8    12.0  0.00359          0.00108     7.4     6.0
              C:34202 LUCAS  869.0 34627 LUCAS T869.0 1     328
                Open 34202 LUCAS  869.0 34627 LUCAS T869.0 1                         -0.40654 -0.00618   -23.1   -14.9
2380  -1325.5 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -50.9   -48.0 -0.00216         -0.00216   -53.9   -51.0
              C:60789 CIRCLTP869.0 62872 FARIBLT869.0 1    3140
                Open 60789 CIRCLTP869.0 62872 FARIBLT869.0 1                          0.61357  0.00000     4.9     4.9
2381  -1324.3 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -50.3   -48.0 -0.00170         -0.00216   -53.9   -51.0
              C:60808 EAGLELK869.0 62679 ELYSNTP869.0 1    3156
                Open 60808 EAGLELK869.0 62679 ELYSNTP869.0 1                          0.14421  0.00315    25.1    21.0
2382  -1323.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -50.9   -48.0 -0.00220         -0.00216   -48.8   -45.9
              C:60342 WHAST  7 115 62258 WHASTNG869.0 1    3029
                Open 60342 WHAST  7 115 62258 WHASTNG869.0 1                         -0.05012  0.00079    42.9    41.8
2390  -1316.7 L:60264 LOON LK7 115 61976 LOON LK869.0 1          82.2    75.0  0.00550          0.00538    85.3    78.2
              C:34301 NEWPRAG869.0 60936 NPRAG2T869.0 1     477
                Open 34301 NEWPRAG869.0 60936 NPRAG2T869.0 1                         -0.35344 -0.00032     8.7     9.1
2394  -1314.8 L:60310 MONROCO5 161 60949 MONROCO869.0 1          74.4    70.0  0.00334          0.00246    66.3    63.1
              C:60995 IRONMDT869.0 68860 BROCKW_869.0 1    3264
                Open 60995 IRONMDT869.0 68860 BROCKW_869.0 1                         -0.42122 -0.00208   -19.2   -16.5
2396  -1314.1 L:61948 BYRON  5 161 61906 MAPLE LF 161 1         395.8   372.0  0.01813          0.01203   309.4   293.6
              C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.09588  0.06362   901.3   817.7
2399  -1311.8 L:34285 ALDEN J869.0 34286 ALEAWST869.0 1          56.8    44.0  0.00973          0.00555    34.7    27.4
              C:34010 HAYWARD5 161 34013 WNBAGOS5 161 1      33
                Open 34010 HAYWARD5 161 34013 WNBAGOS5 161 1                         -0.12468 -0.03350  -177.1  -133.1
2414  -1306.0 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -51.1   -48.0 -0.00234         -0.00216   -48.8   -45.9
              C:60110 WILMART7 115 60194 CARVRCO7 115 1     964
                Open 60110 WILMART7 115 60194 CARVRCO7 115 1                         -0.02066  0.00886   111.2    99.6
2419  -1304.9 L:60310 MONROCO5 161 60949 MONROCO869.0 1          74.4    70.0  0.00334          0.00246    66.3    63.1
              C:60963 T BRF  869.0 60995 IRONMDT869.0 1    1569
                Open 60963 T BRF  869.0 60995 IRONMDT869.0 1                         -0.42122 -0.00208   -19.1   -16.4
2424  -1300.8 L:60310 MONROCO5 161 60949 MONROCO869.0 1          74.3    70.0  0.00334          0.00246    66.3    63.1
              C:60962 T ALB  869.0 60963 T BRF  869.0 1    1568
                Open 60962 T ALB  869.0 60963 T BRF  869.0 1                         -0.42122 -0.00208   -19.1   -16.4
2427  -1298.1 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -20.6   -19.3 -0.00103         -0.00094   -19.4   -18.2
              C:60884 YNGAMER869.0 60931 CARVRCO869.0 1    1521
                Open 60884 YNGAMER869.0 60931 CARVRCO869.0 1                          0.07913 -0.00114   -15.6   -14.1
2446  -1289.6 L:60264 LOON LK7 115 61976 LOON LK869.0 1          80.9    75.0  0.00461          0.00538    85.3    78.4
              C:60102 ADAMS  3 345 63032 PL VLLY3 345 1    2933
                Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                          0.00799 -0.09714  -545.7  -420.4
2452  -1280.2 L:61615 ARROWHD4 230 61624 FORBES 4 230 1        -347.0  -320.0 -0.02108         -0.01326  -241.3  -224.3
              C:ASK-RRK/ECL3                               3642
                Open 60186 AS KING3 345 60236 REDROCK3 345 1                         -0.02930 -0.01969   140.3   165.5
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                         -0.06104  0.06362   901.3   819.9
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          0.06733 -0.06704  -692.1  -606.3
2458  -1277.4 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -17.8   -12.0 -0.00453
                Base Case
2460  -1276.7 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -62.1   -58.0 -0.00325         -0.00273   -59.9   -56.5
              C:66561 DENISON5 161 66567 DENISON4 230 1    2513
                Open 66561 DENISON5 161 66567 DENISON4 230 1                          0.01582 -0.03279  -139.3   -97.5
2462  -1276.0 L:60864 TCAAPTP869.0 60921 BIRCH  869.0 1          50.1    47.0  0.00245          0.00119    16.3    14.8
              C:60920 LINDSTM7 115 62276 SHAFER 7 115 C1   3210
                Open 60920 LINDSTM7 115 62276 SHAFER 7 115 C1                         0.13820  0.00913   244.7   233.1
2478  -1262.4 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -340.3  -318.0 -0.01766         -0.01397  -311.5  -293.9
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                         -0.03264  0.11317   881.7   738.9
2479  -1262.3 L:60809 SJA SWS869.0 62805 STJAMES869.0 1         -42.9   -36.0 -0.00547         -0.00284   -30.2   -26.6
              C:34008 FOX LK 5 161 61932 RUTLAND5 161 1      28
                Open 34008 FOX LK 5 161 61932 RUTLAND5 161 1                         -0.05459  0.04814   233.2   172.5
2490  -1253.8 L:60809 SJA SWS869.0 60709 STJMSMU869.0 1          42.9    36.0  0.00547          0.00284    30.1    26.6
              C:34008 FOX LK 5 161 61932 RUTLAND5 161 1      28
                Open 34008 FOX LK 5 161 61932 RUTLAND5 161 1                          0.05459  0.04814   233.2   172.9
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2492  -1252.0 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -61.7   -58.0 -0.00300         -0.00273   -59.9   -56.5
              C:66565 SIOUXCY4 230 66567 DENISON4 230 1    2520
                Open 66565 SIOUXCY4 230 66567 DENISON4 230 1                          -0.00747  0.03530   241.7   197.5
2493  -1249.9 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -62.1   -58.0 -0.00325         -0.00273   -59.9   -56.5
              C:34047 ANTA TP5 161 66561 DENISON5 161 1     109
                Open 34047 ANTA TP5 161 66561 DENISON5 161 1                           0.01582 -0.03279  -133.8   -92.9
2507  -1233.4 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -50.7   -48.0 -0.00216         -0.00216   -48.8   -46.1
              C:60789 CIRCLTP869.0 62872 FARIBLT869.0 1    3140
                Open 60789 CIRCLTP869.0 62872 FARIBLT869.0 1                          -0.38643  0.00000     4.9     4.9
2509  -1226.8 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -50.8   -48.0 -0.00226         -0.00216   -48.8   -46.1
              C:715       4                                3748
                Open 60243 SCOTTAP7 115 62666 GLNDALE7 115 1                          -0.02416  0.00356    48.9    44.6
                Open 62666 GLNDALE7 115 62672 GLNDALE869.0 1                          -0.02559  0.00008    25.1    25.0
                Open 60243 SCOTTAP7 115 60244 SCOTTCO7 115 1                          -0.00714  0.00158    24.8    22.8
                Open 60194 CARVRCO7 115 60243 SCOTTAP7 115 1                          -0.00232  0.00000     1.5     1.5
                Open 60194 CARVRCO7 115 60931 CARVRCO869.0 1                          -0.00028 -0.00021    19.7    20.0
2510  -1224.6 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -51.2   -48.0 -0.00259         -0.00216   -44.9   -42.3
              C:60797 KENYNTP869.0 62389 KENYON 869.0 1    3145
                Open 60797 KENYNTP869.0 62389 KENYON 869.0 1                           0.27260 -0.00161   -23.0   -21.0
2511  -1219.7 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -20.5   -19.3 -0.00099         -0.00094   -19.4   -18.3
              C:60202 COON CK3 345 63030 DICKNSN3 345 1    1157
                Open 60202 COON CK3 345 63030 DICKNSN3 345 1                           0.00281 -0.01742  -393.2  -371.9
2512  -1219.3 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -50.8   -48.0 -0.00228         -0.00216   -48.8   -46.1
              C:62980 MCLEOD 4 230 63054 PANTHER4 230 1    3394
                Open 62980 MCLEOD 4 230 63054 PANTHER4 230 1                           0.00732 -0.01700  -276.4  -255.7
2514  -1216.0 L:60805 WATRVIL869.0 62679 ELYSNTP869.0 1         -44.2   -37.0 -0.00594         -0.00315   -22.5   -18.7
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          -0.02464  0.11317   881.7   744.1
2516  -1213.5 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          97.9    90.0  0.00647          0.00647    89.3    81.4
              C:34146 OTTUMW1G24.0 34189 OTTUMWA5 161 1    2809
                Open 34146 OTTUMW1G24.0 34189 OTTUMWA5 161 1                          -0.01845  0.00000  -466.3  -466.3
2522  -1196.1 L:61948 BYRON  5 161 61906 MAPLE LF 161 1         399.6   372.0  0.02304          0.01203   309.4   295.0
              C:825                                            3771
                Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                          -0.26542 -0.09714  -545.7  -429.5
                Open 34014 ADAMS  5 161 60102 ADAMS  3 345 1                          -0.00000  0.02245    -2.8   -29.7
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                           0.10401 -0.14203  -525.7  -355.8
2524  -1193.7 L:63194 FERGSFLY 230 63331 FERGSFL4 230 1        -116.4  -112.0 -0.00372         -0.00002   -45.0   -44.9
              C:63051 HENNING4 230 63052 INMAN  4 230 1    2052
                Open 63051 HENNING4 230 63052 INMAN  4 230 1                          -0.34006  0.01089   210.2   197.2
2525  -1191.3 L:60264 LOON LK7 115 61976 LOON LK869.0 1          79.6    75.0  0.00383          0.00538    85.3    78.9
              C:34018 HAZLTON3 345 60102 ADAMS  3 345 1      56
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                           0.01091 -0.14203  -525.7  -356.5
2526  -1177.8 L:63194 FERGSFLY 230 63231 FERGSFL7 115 1         116.4   112.0  0.00372          0.00002    44.9    44.9
              C:63051 HENNING4 230 63052 INMAN  4 230 1    2052
                Open 63051 HENNING4 230 63052 INMAN  4 230 1                           0.34006  0.01089   210.2   197.4
2527  -1176.7 L:60264 LOON LK7 115 61976 LOON LK869.0 1          81.3    75.0  0.00538          0.00538    85.3    79.0
              C:60110 WILMART7 115  8006 G261-CT115.0 1    2939
                Open 60110 WILMART7 115  8006 G261-CT115.0 1                           0.02326  0.00000  -170.5  -170.5
2528  -1176.7 L:60264 LOON LK7 115 61976 LOON LK869.0 1          81.3    75.0  0.00538          0.00538    85.3    79.0
              C:60110 WILMART7 115  8007 G261-CT215.0 1    2940
                Open 60110 WILMART7 115  8007 G261-CT215.0 1                           0.02326  0.00000  -170.5  -170.5
2529  -1176.6 L:60327 T RIVFL7 115 68966 GLENMONT 115 1        -211.8  -194.0 -0.01511         -0.00911  -126.8  -116.1
              C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          -0.09430  0.06362   901.3   826.5
2530  -1175.9 L:34650 ARISTAP869.0 34653 CRESTN8_69.0 1         -30.8   -24.0 -0.00579         -0.00345   -20.0   -15.9
              C:34585 LORIMRR869.0 34586 LORIMOR869.0 1     685
                Open 34585 LORIMRR869.0 34586 LORIMOR869.0 1                          -0.32289  0.00726    33.5    25.0
2531  -1175.9 L:34650 ARISTAP869.0 34653 CRESTN8_69.0 1         -30.8   -24.0 -0.00579         -0.00345   -20.0   -15.9
              C:34585 LORIMRR869.0 34588 SLAKEN 869.0 1     686
                Open 34585 LORIMRR869.0 34588 SLAKEN 869.0 1                           0.32289 -0.00726   -33.5   -25.0
2536  -1165.6 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -50.1   -47.0 -0.00264         -0.00211   -59.2   -56.7
              C:60107 W FARIB7 115 62865 AIRTECH7 115 1    2937
                Open 60107 W FARIB7 115 62865 AIRTECH7 115 1                          -0.10588  0.00497   -85.8   -91.6
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2543  -1162.9 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -16.6   -12.0 -0.00399         -0.00453   -17.8   -12.5
              C:34047 ANTA TP5 161 66560 CRESTON5 161 1     108
                Open 34047 ANTA TP5 161 66560 CRESTON5 161 1                          0.02105  0.02560    54.4    24.6
2550  -1153.0 L:63329 WAHPETN4 230 63331 FERGSFL4 230 1         335.3   320.0  0.01330          0.01091   264.8   252.2
              C:60133 SHEYNNE4 230 63336 AUDUBON4 230 1    1013
                Open 60133 SHEYNNE4 230 63336 AUDUBON4 230 1                          0.27843  0.00860   253.4   243.5
2552  -1145.6 L:34650 ARISTAP869.0 34653 CRESTN8_69.0 1         -30.6   -24.0 -0.00579         -0.00345   -20.0   -16.0
              C:34586 LORIMOR869.0 34587 MURRAY 869.0 1     687
                Open 34586 LORIMOR869.0 34587 MURRAY 869.0 1                         -0.32289  0.00726    33.0    24.7
2554  -1142.6 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          14.7    13.7  0.00089          0.00089    11.3    10.3
              C:60002 SHERC33G26.0 60160 SHERCO 3 345 1    2892
                Open 60002 SHERC33G26.0 60160 SHERCO 3 345 1                         -0.00393  0.00000  -875.5  -875.5
2555  -1141.9 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -61.8   -58.0 -0.00335         -0.00273   -59.9   -56.8
              C:34060 WNTRST 5 161 64197 NORWLK5  161 1    2754
                Open 34060 WNTRST 5 161 64197 NORWLK5  161 1                         -0.06113  0.01020    30.9    19.2
2557  -1140.8 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -61.8   -58.0 -0.00331         -0.00273   -59.9   -56.8
              C:34176 MT AYR 869.0 34646 BEACNRC869.0 1     278
                Open 34176 MT AYR 869.0 34646 BEACNRC869.0 1                         -0.16750  0.00345    10.9     7.0
2559  -1138.4 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -50.1   -48.0 -0.00181         -0.00216   -53.9   -51.4
              C:ASK-RRK/ECL3                               3642
                Open 60186 AS KING3 345 60236 REDROCK3 345 1                         -0.00156 -0.01969   140.3   162.7
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00328  0.06362   901.3   828.9
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.00155 -0.06704  -692.1  -615.8
2561  -1134.0 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -61.8   -58.0 -0.00331         -0.00273   -59.9   -56.8
              C:34644 ELLSTNR869.0 34646 BEACNRC869.0 1     744
                Open 34644 ELLSTNR869.0 34646 BEACNRC869.0 1                          0.16750 -0.00345   -10.8    -6.9
2563  -1130.8 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -50.6   -48.0 -0.00227         -0.00216   -48.8   -46.3
              C:795                                        3765
                Open 60150 MNVLTAP4 230 66550 GRANITF4 230 1                          0.00667 -0.01397  -311.5  -295.7
                Open 60148 MINVALY7 115 60149 MINVALT4 230 C1                        -0.00723  0.00290    18.2    14.9
                Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                          0.00674  0.00000     0.0     0.0
                Open 60149 MINVALT4 230 60150 MNVLTAP4 230 1     NA
                Open 60742 PANTHER869.0 63054 PANTHER4 230 1                         -0.00995  0.00014   -40.1   -40.2
2564  -1126.0 L:61948 BYRON  5 161 61964 OWATNNA5 161 1        -313.2  -273.0 -0.03569         -0.02028  -157.4  -134.6
              C:PRI-BYN/RRK3                               3646
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                         -0.20244  0.07639   767.2   681.2
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                         -0.00294 -0.01725   152.8   172.2
2565  -1121.3 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -61.7   -58.0 -0.00331         -0.00273   -59.9   -56.9
              C:34643 GRRIVER869.0 34644 ELLSTNR869.0 1     742
                Open 34643 GRRIVER869.0 34644 ELLSTNR869.0 1                          0.16750 -0.00345   -10.5    -6.7
2566  -1119.4 L:60805 WATRVIL869.0 62679 ELYSNTP869.0 1         -43.4   -37.0 -0.00570         -0.00315   -22.5   -19.0
              C:60265 LOON TP7 115 60830 EASTWD18 115 P1   1275
                Open 60265 LOON TP7 115 60830 EASTWD18 115 P1                         0.09985 -0.02555  -209.2  -180.6
2568  -1110.5 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -50.2   -48.0 -0.00201         -0.00216   -53.9   -51.5
              C:60787 NOFIELD869.0 62256 CSTL RK869.0 1    3138
                Open 60787 NOFIELD869.0 62256 CSTL RK869.0 1                          0.47993  0.00031     7.6     7.3
2569  -1109.4 L:60824 FRONTNC869.0 61960 LAKECITY69.0 1          54.3    48.0  0.00565          0.00360    32.1    28.1
              C:PRI-BYN/RRK3                               3646
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                          0.02791  0.07639   767.2   682.5
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                          0.00494 -0.01725   152.8   171.9
2570  -1109.3 L:60264 LOON LK7 115 61976 LOON LK869.0 1          80.4    75.0  0.00484          0.00538    85.3    79.3
              C:60110 WILMART7 115 60830 EASTWD18 115 P1    968
                Open 60110 WILMART7 115 60830 EASTWD18 115 P1                        -0.03602  0.01502   136.8   120.2
2571  -1107.1 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -50.3   -48.0 -0.00209         -0.00216   -44.9   -42.5
              C:60217 INVRHLS3 345 60218 INVRHLS7 115 1    1196
                Open 60217 INVRHLS3 345 60218 INVRHLS7 115 1                         -0.01712 -0.00355   316.1   320.0
2572  -1100.0 L:60310 MONROCO5 161 60949 MONROCO869.0 1          73.7    70.0  0.00334          0.00246    66.3    63.6
              C:60958 T SHAM 869.0 60962 T ALB  869.0 1    1565
                Open 60958 T SHAM 869.0 60962 T ALB  869.0 1                         -0.42122 -0.00208   -17.5   -15.2
2574  -1093.4 L:61948 BYRON  5 161 61964 OWATNNA5 161 1        -312.0  -273.0 -0.03567         -0.02028  -157.4  -135.3
              C:60105 PR ISLD3 345 61950 BYRON  3 345 1     951
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                         -0.20148  0.07639   767.2   683.7
2575  -1091.6 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          88.2    80.0  0.00751          0.00593    81.8    75.3
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                C:34191 REASNOR5 161 64062 DMOINES5 161 1    2820
                  Open 34191 REASNOR5 161 64062 DMOINES5 161 1                          -0.05171 -0.03041  -124.0   -90.8
2576  -1088.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -50.5   -48.0 -0.00227         -0.00216   -48.8   -46.4
                C:60189 BLK DOG4 230 60190 BLK DOG7 115 C1   1120
                  Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                         -0.00893  0.01298   192.3   178.2
2577  -1088.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -50.5   -48.0 -0.00227         -0.00216   -48.8   -46.4
                C:810   C1                                   3767
                  Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                           0.00893 -0.01298  -192.3  -178.2
                  Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                          0.00931  0.00000    -0.0    -0.0
2578  -1088.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -50.5   -48.0 -0.00227         -0.00216   -48.8   -46.4
                C:60189 BLK DOG4 230 62980 MCLEOD 4 230 1    1121
                  Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                           0.00893 -0.01298  -192.3  -178.2
2579  -1087.8 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -18.2   -17.3 -0.00081         -0.00089   -19.8   -18.8
                C:022       6                                3707
                  Open 60186 AS KING3 345 60199 CHIS CO3 345 1                          -0.00198 -0.00535  -490.2  -484.4
                  Open 60186 AS KING3 345 60221 KOLMNLK3 345 1                          -0.00197 -0.03910  -330.7  -288.2
2580  -1087.8 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -18.2   -17.3 -0.00081         -0.00089   -19.8   -18.8
                C:ASK-CHI/KOL3                               3641
                  Open 60186 AS KING3 345 60199 CHIS CO3 345 1                          -0.00198 -0.00535  -490.2  -484.4
                  Open 60186 AS KING3 345 60221 KOLMNLK3 345 1                          -0.00197 -0.03910  -330.7  -288.2
2582  -1079.4 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          14.8    13.7  0.00105          0.00089    11.3    10.3
                C:60202 COON CK3 345 63030 DICKNSN3 345 1    1157
                  Open 60202 COON CK3 345 63030 DICKNSN3 345 1                          -0.00903 -0.01742  -393.2  -374.4
2584  -1069.8 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -234.5  -200.0 -0.03224         -0.03224  -197.2  -162.7
                C:60002 SHERC33G26.0 60160 SHERCO 3 345 1    2892
                  Open 60002 SHERC33G26.0 60160 SHERCO 3 345 1                           0.04257  0.00000  -875.5  -875.5
2585  -1065.1 L:60710 FARM TP869.0 62839 BGFSHTP869.0 1          20.3    19.3  0.00097          0.00055    23.3    22.7
                C:60707 BLUEHRN869.0 60717 WAKEFLD869.0 1    1408
                  Open 60707 BLUEHRN869.0 60717 WAKEFLD869.0 1                           0.34070  0.00123    -8.7   -10.0
2586  -1051.3 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -61.4   -58.0 -0.00327         -0.00273   -59.9   -57.1
                C:34185 POWESHK5 161 34191 REASNOR5 161 1     300
                  Open 34185 POWESHK5 161 34191 REASNOR5 161 1                           0.01129 -0.04760  -132.1   -82.1
2587  -1048.4 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -50.3   -48.0 -0.00216         -0.00216   -48.8   -46.5
                C:60008 RIVRS78G22.0 60240 RIVRSID7 115 1    2898
                  Open 60008 RIVRS78G22.0 60240 RIVRSID7 115 1                           0.00660  0.00000  -227.9  -227.9
2588  -1048.0 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -50.3   -48.0 -0.00216         -0.00216   -48.8   -46.5
                C:60013 BLK D73G13.8 60200 BLK DG27 115 1    2903
                  Open 60013 BLK D73G13.8 60200 BLK DG27 115 1                           0.01335  0.00000  -112.6  -112.6
2589  -1047.9 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -16.6   -12.0 -0.00439         -0.00453   -17.8   -13.0
                C:34182 WAPELLO5 161 34183 JEFF   5 161 1     292
                  Open 34182 WAPELLO5 161 34183 JEFF   5 161 1                           0.00822  0.01653   143.8   126.5
2590  -1044.8 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -16.7   -12.0 -0.00453         -0.00453   -17.8   -13.1
                C:60001 SHERC32G24.0 60160 SHERCO 3 345 1    2891
                  Open 60001 SHERC32G24.0 60160 SHERCO 3 345 1                          -0.00185  0.00000  -568.8  -568.8
2593  -1043.0 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -16.7   -12.0 -0.00453         -0.00453   -17.8   -13.1
                C:60005 MNTCE31G22.0 60151 MNTCELO3 345 1    2895
                  Open 60005 MNTCE31G22.0 60151 MNTCELO3 345 1                          -0.00186  0.00000  -571.4  -571.4
2594  -1042.4 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -20.4   -19.3 -0.00106         -0.00094   -19.4   -18.4
                C:60107 W FARIB7 115 60265 LOON TP7 115 C1    952
                  Open 60107 W FARIB7 115 60265 LOON TP7 115 C1                          0.00601 -0.02017  -166.9  -145.9
2595  -1040.1 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -16.7   -12.0 -0.00453         -0.00453   -17.8   -13.1
                C:60000 SHERC31G24.0 60160 SHERCO 3 345 1    2890
                  Open 60000 SHERC31G24.0 60160 SHERCO 3 345 1                          -0.00185  0.00000  -580.3  -580.3
2596  -1039.7 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         253.8   217.0  0.03541          0.03409   236.6   201.1
                C:34016 EMERY  5 161 63774 SHEFFLD5 161 1    2720
                  Open 34016 EMERY  5 161 63774 SHEFFLD5 161 1                           0.26220  0.00503    65.7    60.5
2598  -1035.2 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -50.2   -48.0 -0.00214         -0.00216   -48.8   -46.5
                C:60218 INVRHLS7 115 60223 KOCHREF7 115 1    1199
                  Open 60218 INVRHLS7 115 60223 KOCHREF7 115 1                          -0.00947 -0.00189   153.8   155.8
2599  -1034.9 L:60864 TCAAPTP869.0 60921 BIRCH  869.0 1          49.5    47.0  0.00245          0.00119    16.3    15.1
                C:61128 LAW CRK7 115 62276 SHAFER 7 115 C1   3339
                  Open 61128 LAW CRK7 115 62276 SHAFER 7 115 C1                         -0.13820 -0.00913  -240.5  -231.0
2600  -1034.8 L:34463 LORE W 869.0 34469 GARDLAN869.0 1          40.6    36.0  0.00446          0.00331    28.5    25.1
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              C:34464 LORE E 869.0 34468 GL CAP1869.0 1     635
                Open 34464 LORE E 869.0 34468 GL CAP1869.0 1                          0.60051  0.00191    20.2    18.2
2601  -1030.2 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -50.3   -48.0 -0.00226         -0.00216   -48.8   -46.5
              C:715       2                                 3746
                Open 60243 SCOTTAP7 115 62666 GLNDALE7 115 1                         -0.02476  0.00356    48.9    45.3
                Open 60242 SAVAGE 7 115 62668 EGLCKTP7 115 1     NA
                Open 62666 GLNDALE7 115 62672 GLNDALE869.0 1                         -0.02556  0.00008    25.1    25.0
                Open 60243 SCOTTAP7 115 60244 SCOTTCO7 115 1                         -0.00651  0.00158    24.8    23.1
                Open 60194 CARVRCO7 115 60243 SCOTTAP7 115 1                         -0.00273  0.00000     1.5     1.5
                Open 60194 CARVRCO7 115 60931 CARVRCO869.0 1                          0.00007 -0.00021    19.7    19.9
                Open 60190 BLK DOG7 115 60242 SAVAGE 7 115 1                          0.00520 -0.00055    29.6    30.1
                Open 62668 EGLCKTP7 115 62975 SHAKOPE7 115 1     NA
                Open 60244 SCOTTCO7 115 62975 SHAKOPE7 115 1                          0.00378  0.00000    55.2    55.2
                Open 60244 SCOTTCO7 115 60890 SCOTTCO869.0 2                          0.00339 -0.00079    23.8    24.6
2602  -1025.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -50.3   -48.0 -0.00226         -0.00216   -48.8   -46.5
              C:SCO-SSK/CAR7                                    3675
                Open 60244 SCOTTCO7 115 62975 SHAKOPE7 115 1                         -0.00559  0.00055    25.6    25.1
                Open 60243 SCOTTAP7 115 60244 SCOTTCO7 115 1                          0.01987  0.00158    24.8    23.2
                Open 60194 CARVRCO7 115 60243 SCOTTAP7 115 1                         -0.02587  0.00514    75.2    70.0
                Open 60243 SCOTTAP7 115 62666 GLNDALE7 115 1                          0.02336  0.00000     1.5     1.5
2603  -1025.3 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -50.2   -48.0 -0.00218         -0.00216   -48.8   -46.5
              C:022       1                                     3703
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                         -0.00073  0.02476   409.3   383.9
                Open 60221 KOLMNLK3 345 60251 TERMINL3 345 1                         -0.00096 -0.02267    47.8    71.0
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                         -0.00169  0.01934   627.4   607.6
                Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                         -0.00041  0.00036   207.1   206.7
                Open 60251 TERMINL3 345 61492 TERMID1Y 345 1     NA
                Open 60252 TERMINL7 115 61492 TERMID1Y 345 1                         -0.00000  0.00166  -335.8  -337.5
                Open 61187 TERTER1934.5 61492 TERMID1Y 345 1     NA
                Open 60251 TERMINL3 345 61491 TERMID2Y 345 1     NA
                Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                          0.00712  0.00000     0.3     0.3
                Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
2604  -1023.4 L:34463 LORE W 869.0 34469 GARDLAN869.0 1          40.6    36.0  0.00446          0.00331    28.5    25.1
              C:34468 GL CAP1869.0 34506 SHERILL869.0 1     639
                Open 34468 GL CAP1869.0 34506 SHERILL869.0 1                          0.60051  0.00191    20.1    18.2
2606  -1017.2 L:60264 LOON LK7 115 61976 LOON LK869.0 1          80.6    75.0  0.00550          0.00538    85.3    79.8
              C:34300 MONTGMY869.0 34301 NEWPRAG869.0 1     475
                Open 34300 MONTGMY869.0 34301 NEWPRAG869.0 1                         -0.35344 -0.00032    13.3    13.7
2607  -1014.3 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -16.6   -12.0 -0.00453         -0.00453   -17.8   -13.2
              C:67315 COYOTE1G24.0 67316 COYOTE 3 345 1    3613
                Open 67315 COYOTE1G24.0 67316 COYOTE 3 345 1                         -0.00278  0.00000  -429.1  -429.1
2608  -1010.9 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -241.5  -200.0 -0.04104         -0.03224  -197.2  -164.6
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                          0.06302 -0.13973  -702.5  -561.3
2610  -1007.5 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -61.0   -58.0 -0.00301         -0.00273   -59.9   -57.2
              C:825                                             3771
                Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                          0.00025 -0.09714  -545.7  -447.8
                Open 34014 ADAMS  5 161 60102 ADAMS  3 345 1                         -0.00000  0.02245    -2.8   -25.5
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                          0.00181 -0.14203  -525.7  -382.6
2611  -1003.8 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -16.5   -12.0 -0.00453         -0.00453   -17.8   -13.2
              C:67101 ANTELOP3 345 67103 ANTEL31G24.0 1    3585
                Open 67101 ANTELOP3 345 67103 ANTEL31G24.0 1                         -0.00297  0.00000  -417.8  -417.8
2612  -1003.8 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -16.5   -12.0 -0.00453         -0.00453   -17.8   -13.2
              C:67101 ANTELOP3 345 67107 ANTEL32G24.0 1    3586
                Open 67101 ANTELOP3 345 67107 ANTEL32G24.0 1                         -0.00297  0.00000  -417.8  -417.8
2613  -1000.8 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -63.0   -58.0 -0.00500         -0.00273   -59.9   -57.2
              C:34064 ANITA  869.0 34603 CASEY R 69.0 1     142
                Open 34064 ANITA  869.0 34603 CASEY R 69.0 1                         -0.57650  0.00393     5.3     1.4
2614   -999.0 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -332.0  -318.0 -0.01397         -0.01397  -311.5  -297.6
              C:60000 SHERC31G24.0 60160 SHERCO 3 345 1    2890
                Open 60000 SHERC31G24.0 60160 SHERCO 3 345 1                          0.03521  0.00000  -580.3  -580.3
2615   -998.3 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1           79.1    60.0  0.01918          0.01629    65.0    48.7
              C:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1     114
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                Open 34051 TOLEDO 7 115 34066 M-TOWN 7 115 1                          -0.18807 -0.01539   -75.2   -59.9
2616   -996.9 L:60264 LOON LK7 115 61976 LOON LK869.0 1          80.4    75.0  0.00538          0.00538    85.3    79.9
              C:60108 WILMART3 345  8001 G261-ST 19.5 1    2938
                Open 60108 WILMART3 345  8001 G261-ST 19.5 1                           0.01514  0.00000  -326.0  -326.0
2617   -996.2 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -331.9  -318.0 -0.01397         -0.01397  -311.5  -297.6
              C:60005 MNTCE31G22.0 60151 MNTCELO3 345 1    2895
                Open 60005 MNTCE31G22.0 60151 MNTCELO3 345 1                           0.03569  0.00000  -571.4  -571.4
2618   -994.4 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -63.0   -58.0 -0.00500         -0.00273   -59.9   -57.2
              C:34063 GRNFLD 869.0 34603 CASEY R 69.0 1     140
                Open 34063 GRNFLD 869.0 34603 CASEY R 69.0 1                           0.57650 -0.00393    -5.2    -1.3
2619   -993.6 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -49.9   -48.0 -0.00187         -0.00216   -53.9   -51.7
              C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.00446  0.06362   901.3   838.1
2620   -992.0 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -16.5   -12.0 -0.00453         -0.00453   -17.8   -13.3
              C:63314 BIGSTON4 230 63315 BIGSTN1G24.0 1    3458
                Open 63314 BIGSTON4 230 63315 BIGSTN1G24.0 1                          -0.00277  0.00000  -466.2  -466.2
2621   -990.8 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -16.5   -12.0 -0.00453         -0.00453   -17.8   -13.3
              C:67105 LELANDO3 345 67111 LELAN32G20.0 1    3588
                Open 67105 LELANDO3 345 67111 LELAN32G20.0 1                          -0.00296  0.00000  -438.9  -438.9
2622   -988.3 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -61.0   -58.0 -0.00301         -0.00273   -59.9   -57.2
              C:34018 HAZLTON3 345 60102 ADAMS  3 345 1      56
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                           0.00196 -0.14203  -525.7  -385.3
2623   -988.1 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -48.1   -47.0 -0.00111         -0.00211   -59.2   -57.1
              C:60796 KENYON 869.0 60819 CHERYTP869.0 1    1467
                Open 60796 KENYON 869.0 60819 CHERYTP869.0 1                           0.62236  0.00161    17.8    16.2
2624   -984.2 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          86.1    80.0  0.00615          0.00593    81.8    75.9
              C:34211 NEWTON 5 161 34561 NEWTON Y 161 1     354
                Open 34211 NEWTON 5 161 34561 NEWTON Y 161 1                           0.08395  0.00259    50.9    48.3
2625   -983.7 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          86.1    80.0  0.00615          0.00593    81.8    75.9
              C:34212 NEWTON 869.0 34561 NEWTON Y 161 1     355
                Open 34212 NEWTON 869.0 34561 NEWTON Y 161 1                          -0.08395 -0.00259   -50.8   -48.3
2628   -975.8 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -185.6  -167.0 -0.01904         -0.03350  -177.1  -144.4
              C:34137 TRIBOJI5 161 66563 SPENCER5 161 1     247
                Open 34137 TRIBOJI5 161 66563 SPENCER5 161 1                          -0.05255 -0.27510   161.9   430.3
2629   -975.5 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -18.2   -17.3 -0.00089         -0.00089   -19.8   -18.9
              C:62932 GOOSELK869.0 62944 GOOSETP869.0 1    2003
                Open 62932 GOOSELK869.0 62944 GOOSETP869.0 1                           0.23534  0.00000     6.9     6.9
2630   -969.9 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -331.5  -318.0 -0.01397         -0.01397  -311.5  -298.0
              C:60001 SHERC32G24.0 60160 SHERCO 3 345 1    2891
                Open 60001 SHERC32G24.0 60160 SHERCO 3 345 1                           0.03521  0.00000  -568.8  -568.8
2631   -968.6 L:34423 MONONA_869.0 69307 FARMBURG69.0 1          57.2    51.0  0.00637          0.00601    44.4    38.6
              C:880                                        3779
                Open 69523 GENOA  5 161 69527 HARMONY5 161 1                          -0.06291 -0.01092   -67.9   -57.3
                Open 34021 LANSINGW 161 69523 GENOA  5 161 1                           0.11243 -0.00286    75.8    78.5
2633   -966.0 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -50.2   -48.0 -0.00223         -0.00216   -48.8   -46.7
              C:60150 MNVLTAP4 230 63054 PANTHER4 230 1    2952
                Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                          -0.00423  0.01687   329.7   313.4
2634   -962.1 L:60824 FRONTNC869.0 61960 LAKECITY69.0 1          52.9    48.0  0.00507          0.00360    32.1    28.6
              C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.02305  0.06362   901.3   840.1
2637   -960.7 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -182.4  -167.0 -0.01604         -0.03350  -177.1  -144.9
              C:34007 LAKEFLD5 161 34137 TRIBOJI5 161 1      24
                Open 34007 LAKEFLD5 161 34137 TRIBOJI5 161 1                          -0.06758 -0.25832    78.9   327.1
2638   -952.5 L:60156 PYNSVIL7 115 60760 PAYNES 869.0 P2         49.7    47.0  0.00286          0.00115    29.8    28.7
              C:60156 PYNSVIL7 115 60162 WAKEFLD7 115 C1   1068
                Open 60156 PYNSVIL7 115 60162 WAKEFLD7 115 C1                          0.21295  0.00802    93.7    86.1
2639   -952.5 L:60156 PYNSVIL7 115 60760 PAYNES 869.0 P1         49.7    47.0  0.00286          0.00115    29.8    28.7
              C:60156 PYNSVIL7 115 60162 WAKEFLD7 115 C1   1068
                Open 60156 PYNSVIL7 115 60162 WAKEFLD7 115 C1                          0.21295  0.00802    93.7    86.1
2640   -950.4 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          37.5    36.0  0.00162          0.00284    33.0    30.3
              C:60934 WATOWAN869.0 62804 SVEADTP869.0 1    3216
                Open 60934 WATOWAN869.0 62804 SVEADTP869.0 1                           0.35456 -0.00344    12.7    16.0
2641   -946.7 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -16.3   -12.0 -0.00453         -0.00453   -17.8   -13.5
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              C:34575 CRESTON934.5 34592 SLAKES 869.0 1    2857
                Open 34575 CRESTON934.5 34592 SLAKES 869.0 1                          -0.05759  0.00000   -26.0   -26.0
2642   -944.3 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -235.9  -200.0 -0.03800         -0.03224  -197.2  -166.8
              C:61950 BYRON  3 345 63032 PL VLLY3 345 1    3375
                Open 61950 BYRON  3 345 63032 PL VLLY3 345 1                          -0.06813  0.08464   567.6   487.7
2643   -943.9 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -18.1   -17.3 -0.00087         -0.00089   -19.8   -19.0
              C:SHC-CNC/BUL3                               3630
                Open 60160 SHERCO 3 345 60202 COON CK3 345 1                           0.00207  0.00772   472.9   465.6
                Open 60160 SHERCO 3 345 63031 BUNKER 3 345 1                           0.00142  0.00766   491.3   484.1
2644   -937.5 L:60794 NRSTRND869.0 62389 KENYON 869.0 1          40.5    37.0  0.00373          0.00161    24.0    22.5
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                           0.01873  0.11317   881.7   775.6
2645   -936.1 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -20.4   -19.3 -0.00123         -0.00094   -19.4   -18.5
              C:60865 CHASKA 869.0 60890 SCOTTCO869.0 1    3196
                Open 60865 CHASKA 869.0 60890 SCOTTCO869.0 1                          -0.20114  0.00142     5.2     3.9
2646   -933.1 L:60864 TCAAPTP869.0 60909 ARDNHL2869.0 1         -52.3   -50.0 -0.00245         -0.00119   -16.4   -15.3
              C:60196 CHI    7 115 60920 LINDSTM7 115 C1   1140
                Open 60196 CHI    7 115 60920 LINDSTM7 115 C1                         -0.13820  0.00913   259.9   251.4
2647   -931.2 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -50.1   -48.0 -0.00222         -0.00216   -48.8   -46.7
              C:60826 TRAVRSE869.0 62350 TRAVERS869.0 1    3175
                Open 60826 TRAVRSE869.0 62350 TRAVERS869.0 1                          -0.02661  0.00249    49.3    47.0
2648   -930.5 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -50.0   -48.0 -0.00216         -0.00216   -48.8   -46.8
              C:60010 HIBRD76G18.0 60214 HIBRDGE7 115 1    2900
                Open 60010 HIBRD76G18.0 60214 HIBRDGE7 115 1                           0.00742  0.00000  -168.3  -168.3
2649   -929.0 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         252.2   217.0  0.03792          0.03409   236.6   204.9
              C:34014 ADAMS  5 161 34015 LIME CK5 161 1      42
                Open 34014 ADAMS  5 161 34015 LIME CK5 161 1                          -0.13626 -0.02813  -114.8   -88.7
2650   -926.8 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -49.9   -48.0 -0.00209         -0.00216   -48.8   -46.8
              C:60817 BURNSID869.0 62387 SPRNGCK869.0 1    3166
                Open 60817 BURNSID869.0 62387 SPRNGCK869.0 1                           0.06216  0.00111   -18.9   -20.0
2651   -925.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -50.0   -48.0 -0.00220         -0.00216   -48.8   -46.8
              C:022       3                                3704
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          -0.00100  0.02476   409.3   386.4
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                          -0.00111  0.01934   627.4   609.5
                Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                          -0.00023  0.00036   207.1   206.8
                Open 60251 TERMINL3 345 61491 TERMID2Y 345 1                          -0.00039 -0.00168   339.2   340.8
                Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                           0.00684  0.00000     0.2     0.2
                Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
2652   -925.2 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -16.2   -12.0 -0.00453         -0.00453   -17.8   -13.6
              C:67118 LARAM31G24.0 67131 LARAMIE3 345 1    3592
                Open 67118 LARAM31G24.0 67131 LARAMIE3 345 1                          -0.00336  0.00000  -475.0  -475.0
2653   -924.7 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -16.2   -12.0 -0.00453         -0.00453   -17.8   -13.6
              C:63000 COAL 41G22.0 63041 COAL CR4 230 1    3396
                Open 63000 COAL 41G22.0 63041 COAL CR4 230 1                          -0.00278  0.00000  -575.2  -575.2
2654   -924.5 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -16.2   -12.0 -0.00453         -0.00453   -17.8   -13.6
              C:63001 COAL 42G22.0 63041 COAL CR4 230 1    3397
                Open 63001 COAL 42G22.0 63041 COAL CR4 230 1                          -0.00278  0.00000  -575.5  -575.5
2655   -921.2 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -49.8   -48.0 -0.00199         -0.00216   -44.9   -42.9
              C:60104 CANNFLS7 115 60801 CNFLSTR869.0 1     946
                Open 60104 CANNFLS7 115 60801 CNFLSTR869.0 1                          -0.14830 -0.00113    33.2    34.2
2657   -919.4 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -16.2   -12.0 -0.00453         -0.00453   -17.8   -13.6
              C:60002 SHERC33G26.0 60160 SHERCO 3 345 1    2892
                Open 60002 SHERC33G26.0 60160 SHERCO 3 345 1                          -0.00185  0.00000  -875.5  -875.5
2658   -904.3 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -330.6  -318.0 -0.01397         -0.01397  -311.5  -298.9
              C:60003 PR IS31G20.0 60105 PR ISLD3 345 1    2893
                Open 60003 PR IS31G20.0 60105 PR ISLD3 345 1                           0.03653  0.00000  -523.2  -523.2
2659   -902.9 L:60701 MADELVL869.0 60816 BUTERTP869.0 1          48.7    36.0  0.01407          0.00606     8.5     3.0
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                          -0.05727 -0.13973  -702.5  -576.4
2660   -901.7 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -330.6  -318.0 -0.01397         -0.01397  -311.5  -298.9
              C:60004 PR IS32G20.0 60105 PR ISLD3 345 1    2894
                Open 60004 PR IS32G20.0 60105 PR ISLD3 345 1                           0.03653  0.00000  -522.2  -522.2
2662   -900.1 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          74.7    60.0  0.01629          0.01629    65.0    50.3
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              C:34098 PR CRK4G18.0 34099 PRAR CK7 115 1    2782
                Open 34098 PR CRK4G18.0 34099 PRAR CK7 115 1                          -0.07316  0.00000  -132.0  -132.0
2663   -899.1 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          38.7    36.0  0.00296          0.00284    33.0    30.5
              C:34231 MT LAKE869.0 34281 MTLAKET869.0 1     383
                Open 34231 MT LAKE869.0 34281 MTLAKET869.0 1                           0.40950  0.00029    13.7    13.5
2664   -898.6 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -213.6  -173.0 -0.04517         -0.08696  -215.1  -137.0
              C:66563 SPENCER5 161  6450 PRIMGHAR 161 1       8
                Open 66563 SPENCER5 161  6450 PRIMGHAR 161 1                          -0.06478 -0.64513   -23.3   556.4
2665   -888.5 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -50.0   -48.0 -0.00221         -0.00216   -48.8   -46.8
              C:CNC-KOL/TER3                                 3633
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          -0.00108  0.02476   409.3   387.3
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                          -0.00121  0.01934   627.4   610.3
2666   -885.8 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -329.1  -318.0 -0.01250         -0.01397  -311.5  -299.1
              C:34006 LAKEFLD3 345 60286 NOBLES 3 345 C1     20
                Open 34006 LAKEFLD3 345 60286 NOBLES 3 345 C1                          0.05789  0.02531  -303.2  -325.6
2668   -882.2 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -18.0   -17.3 -0.00083         -0.00089   -19.8   -19.0
              C:ASK-RRK/ECL3                                 3642
                Open 60186 AS KING3 345 60236 REDROCK3 345 1                           0.00218 -0.01969   140.3   157.7
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.00148  0.06362   901.3   845.2
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.00018 -0.06704  -692.1  -633.0
2669   -881.5 L:60310 MONROCO5 161 60949 MONROCO869.0 1          72.9    70.0  0.00334          0.00246    66.3    64.1
              C:60958 T SHAM 869.0 60960 T MEL2 869.0 1    1564
                Open 60958 T SHAM 869.0 60960 T MEL2 869.0 1                           0.42122  0.00208    15.8    13.9
2670   -879.9 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          76.8    60.0  0.01915          0.01629    65.0    50.7
              C:34079 TRAER  5 161 34087 DYSART 5 161 1     163
                Open 34079 TRAER  5 161 34087 DYSART 5 161 1                           0.11219  0.02549   105.6    83.2
2671   -876.2 L:34423 MONONA_869.0 68748 POST    69.0 1         -49.6   -45.0 -0.00520         -0.00284   -27.3   -24.8
              C:34023 LANSING869.0 34443 HARPTAP869.0 1      65
                Open 34023 LANSING869.0 34443 HARPTAP869.0 1                          -0.74689  0.00316    29.8    27.0
2672   -875.7 L:60264 LOON LK7 115 61976 LOON LK869.0 1          78.3    75.0  0.00375          0.00538    85.3    80.6
              C:825                                          3771
                Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                           0.00530 -0.09714  -545.7  -460.6
                Open 34014 ADAMS  5 161 60102 ADAMS  3 345 1                          -0.00000  0.02245    -2.8   -22.5
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                           0.00784 -0.14203  -525.7  -401.3
2673   -873.7 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         247.6   217.0  0.03508          0.03409   236.6   206.8
              C:050    1                                     3715
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.00380  0.06362   901.3   845.7
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.01082 -0.06704  -692.1  -633.5
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          -0.00000 -0.00175    77.5    79.0
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                          -0.00542 -0.00300     0.0     2.6
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                          -0.00329 -0.00148   -42.6   -41.3
2674   -871.9 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -18.0   -17.3 -0.00077         -0.00089   -19.8   -19.0
              C:62427 WILLMAR869.0 62437 SVEATAP869.0 1    1890
                Open 62427 WILLMAR869.0 62437 SVEATAP869.0 1                           0.06130  0.00195    29.7    28.0
2675   -865.4 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         247.3   217.0  0.03504          0.03409   236.6   207.1
              C:050    2                                     3716
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.00389  0.06362   901.3   846.3
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.01043 -0.06704  -692.1  -634.1
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          -0.00000 -0.00175    77.5    79.0
2676   -865.0 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -49.8   -48.0 -0.00209         -0.00216   -48.8   -46.9
              C:RRK-ASK/CGR7                                 3657
                Open 60186 AS KING3 345 60236 REDROCK3 345 1                          -0.00199 -0.01969   140.3   157.3
                Open 60204 COTTAGE7 115 60238 REDROCK7 115 1                           0.01085  0.00260   -70.9   -73.2
2677   -861.8 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -50.2   -48.0 -0.00259         -0.00216   -44.9   -43.1
              C:60796 KENYON 869.0 60797 KENYNTP869.0 1    1466
                Open 60796 KENYON 869.0 60797 KENYNTP869.0 1                           0.27260 -0.00161   -19.5   -18.2
2678   -861.4 L:34463 LORE W 869.0 34469 GARDLAN869.0 1          39.8    36.0  0.00446          0.00331    28.5    25.6
              C:34466 J DEERR869.0 34506 SHERILL869.0 1     637
                Open 34466 J DEERR869.0 34506 SHERILL869.0 1                          -0.60051 -0.00191   -18.9   -17.3
2679   -856.6 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          75.7    60.0  0.01829          0.01629    65.0    51.1
              C:34068 M-TOWN 5 161 34079 TRAER  5 161 1     151
                Open 34068 M-TOWN 5 161 34079 TRAER  5 161 1                           0.11088  0.01809    96.2    80.7
2680   -853.4 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         246.9   217.0  0.03504          0.03409   236.6   207.5
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              C:ASK-RRK/ECL3                                3642
                Open 60186 AS KING3 345 60236 REDROCK3 345 1                          -0.00094 -0.01969   140.3   157.1
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.00358  0.06362   901.3   847.0
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.01042 -0.06704  -692.1  -634.9
2681   -850.7 L:34265 WALTERS869.0 34285 ALDEN J869.0 1          49.8    44.0  0.00677          0.00555    37.4    32.7
              C:PRI-BYN/RRK3                                3646
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                           0.01609  0.07639   767.2   702.2
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                           0.00021 -0.01725   152.8   167.4
2682   -839.7 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -49.8   -48.0 -0.00216         -0.00216   -44.9   -43.1
              C:60002 SHERC33G26.0 60160 SHERCO 3 345 1    2892
                Open 60002 SHERC33G26.0 60160 SHERCO 3 345 1                           0.00560  0.00000  -875.5  -875.5
2684   -838.6 L:34265 WALTERS869.0 34285 ALDEN J869.0 1          49.7    44.0  0.00677          0.00555    37.4    32.7
              C:60105 PR ISLD3 345 61950 BYRON  3 345 1     951
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                           0.01603  0.07639   767.2   703.1
2686   -836.4 L:34643 GRRIVER869.0 34644 ELLSTNR869.0 1         -14.9   -12.0 -0.00345         -0.00345   -10.5    -7.7
              C:34146 OTTUMW1G24.0 34189 OTTUMWA5 161 1    2809
                Open 34146 OTTUMW1G24.0 34189 OTTUMWA5 161 1                           0.00932  0.00000  -466.3  -466.3
2687   -829.1 L:61615 ARROWHD4 230 61624 FORBES 4 230 1        -337.8  -320.0 -0.02146         -0.01326  -241.3  -230.3
              C:050    1                                    3715
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          -0.05034  0.06362   901.3   848.6
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.07114 -0.06704  -692.1  -636.5
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                           0.00000 -0.00175    77.5    78.9
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                           0.05418 -0.00300     0.0     2.5
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                           0.04519 -0.00148   -42.6   -41.4
2688   -827.8 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -50.0   -48.0 -0.00239         -0.00216   -48.8   -47.0
              C:34010 HAYWARD5 161 34013 WNBAGOS5 161 1      33
                Open 34010 HAYWARD5 161 34013 WNBAGOS5 161 1                           0.00688 -0.03350  -177.1  -149.3
2689   -824.9 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -49.9   -48.0 -0.00227         -0.00216   -48.8   -47.0
              C:34006 LAKEFLD3 345 63875 RAUN   3 345 1    2708
                Open 34006 LAKEFLD3 345 63875 RAUN   3 345 1                          -0.00375  0.03120   298.4   272.7
2690   -822.6 L:60310 MONROCO5 161 60949 MONROCO869.0 1          72.5    70.0  0.00302          0.00246    66.3    64.3
              C:60951 ROCKLND869.0 60952 BANGOR 869.0 1    1557
                Open 60951 ROCKLND869.0 60952 BANGOR 869.0 1                          -0.51791 -0.00109   -11.9   -11.0
2691   -819.2 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         245.7   217.0  0.03498          0.03409   236.6   208.7
              C:050    3                                    3717
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.01288 -0.06704  -692.1  -637.2
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                          -0.00574 -0.00300     0.0     2.5
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                          -0.00351 -0.00148   -42.6   -41.4
2692   -813.8 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -197.2  -167.0 -0.03708         -0.03350  -177.1  -149.8
              C:60102 ADAMS  3 345 63032 PL VLLY3 345 1    2933
                Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                           0.03683 -0.09714  -545.7  -466.6
2694   -808.8 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         245.3   217.0  0.03493          0.03409   236.6   209.0
              C:39244 ARP 345  345 60304 EAU CL 3 345 1    2888
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.01252 -0.06704  -692.1  -637.9
2695   -799.3 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         244.2   217.0  0.03409          0.03409   236.6   209.3
              C:34090 ARNOLD1G22.0 34091 ARNOLD 5 161 1    2774
                Open 34090 ARNOLD1G22.0 34091 ARNOLD 5 161 1                          -0.02076  0.00000  -369.0  -369.0
2696   -796.1 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -15.3   -12.0 -0.00417         -0.00453   -17.8   -14.2
              C:66565 SIOUXCY4 230 66567 DENISON4 230 1    2520
                Open 66565 SIOUXCY4 230 66567 DENISON4 230 1                           0.01020  0.03530   241.7   213.6
2697   -794.1 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          85.9    80.0  0.00741          0.00593    81.8    77.1
              C:34185 POWESHK5 161 34191 REASNOR5 161 1     300
                Open 34185 POWESHK5 161 34191 REASNOR5 161 1                          -0.03105 -0.04760  -132.1   -94.3
2698   -791.7 L:60264 LOON LK7 115 61976 LOON LK869.0 1          78.7    75.0  0.00464          0.00538    85.3    81.0
              C:34299 WASECAJ869.0 61160 MERIDAN869.0 1     473
                Open 34299 WASECAJ869.0 61160 MERIDAN869.0 1                           0.40137 -0.00186   -16.5   -15.0
2699   -790.6 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          73.2    60.0  0.01669          0.01629    65.0    52.1
              C:34068 M-TOWN 5 161 34528 M-TOWN Y 161 1     153
                Open 34068 M-TOWN 5 161 34528 M-TOWN Y 161 1                          -0.21174 -0.00190   -38.7   -37.2
2700   -790.6 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          73.2    60.0  0.01669          0.01629    65.0    52.1
              C:34066 M-TOWN 7 115 34528 M-TOWN Y 161 1     147
                Open 34066 M-TOWN 7 115 34528 M-TOWN Y 161 1                           0.21174  0.00190    38.7    37.2
2701   -783.8 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -49.8   -48.0 -0.00225         -0.00216   -48.8   -47.1
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              C:705       1                                3739
                Open 60192 BLUE LK3 345 60233 PARKERS3 345 1                          -0.00354  0.01266   -63.9   -73.8
                Open 60192 BLUE LK3 345 60262 EDEN PR3 345 1                          -0.00367  0.01319   283.3   273.0
                Open 60262 EDEN PR3 345 60263 EDEN PR7 115 1                          -0.00069  0.00057   279.5   279.1
2703   -780.9 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         244.0   217.0  0.03462          0.03409   236.6   210.0
              C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.00826  0.06362   901.3   851.6
2704   -779.4 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -15.0   -12.0 -0.00384         -0.00453   -17.8   -14.3
              C:34047 ANTA TP5 161 66561 DENISON5 161 1     109
                Open 34047 ANTA TP5 161 66561 DENISON5 161 1                          -0.02082 -0.03279  -133.8  -108.3
2706   -773.0 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          72.6    60.0  0.01629          0.01629    65.0    52.4
              C:34090 ARNOLD1G22.0 34091 ARNOLD 5 161 1    2774
                Open 34090 ARNOLD1G22.0 34091 ARNOLD 5 161 1                          -0.02056  0.00000  -369.0  -369.0
2707   -771.0 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          74.8    60.0  0.01918          0.01629    65.0    52.4
              C:34051 TOLEDO 7 115 34083 BL.PLN.7 115 1     115
                Open 34051 TOLEDO 7 115 34083 BL.PLN.7 115 1                           0.18807  0.01539    52.0    40.2
2710   -769.5 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -329.6  -318.0 -0.01505         -0.01397  -311.5  -300.8
              C:66506 FTTHOMP3 345 66571 GR ISLD3 345 1    3552
                Open 66506 FTTHOMP3 345 66571 GR ISLD3 345 1                          -0.04247  0.02536   425.1   405.6
2711   -768.3 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -18.0   -17.3 -0.00091         -0.00089   -19.8   -19.1
              C:009   1                                    3696
                Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                           0.00222  0.00782   479.8   473.7
                Open 60202 COON CK3 345 60272 MPLEGV23 345 1                           0.00284  0.00000     4.2     4.2
                Open 60151 MNTCELO3 345 60160 SHERCO 3 345 1                          -0.00202  0.01528  -382.8  -394.5
                Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                          -0.00015 -0.00156   331.6   332.8
                Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                           0.00299  0.00000     0.1     0.1
                Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1     NA
2712   -767.2 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          83.8    80.0  0.00497          0.00593    81.8    77.2
              C:34174 EICTAP 5 161 64096 BEACON 5 161 1    2812
                Open 34174 EICTAP 5 161 64096 BEACON 5 161 1                           0.04739 -0.02033    42.8    58.4
2713   -766.7 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -194.9  -167.0 -0.03642         -0.03350  -177.1  -151.4
              C:34015 LIME CK5 161 34016 EMERY  5 161 1      46
                Open 34015 LIME CK5 161 34016 EMERY  5 161 1                           0.09048 -0.03224  -197.2  -172.5
2714   -766.2 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -49.4   -48.0 -0.00181         -0.00216   -53.9   -52.2
              C:050    1                                   3715
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.00380  0.06362   901.3   852.6
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.00155 -0.06704  -692.1  -640.7
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          -0.00000 -0.00175    77.5    78.8
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                           0.00022 -0.00300     0.0     2.3
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                           0.00031 -0.00148   -42.6   -41.5
2715   -764.4 L:61676 HIBBARD7 115 61680 WNTR ST7 115 1         147.3   144.0  0.00434          0.00239   119.6   117.8
              C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.03071  0.06362   901.3   852.7
2716   -764.3 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         244.1   217.0  0.03542          0.03409   236.6   210.5
              C:60102 ADAMS  3 345 63032 PL VLLY3 345 1    2933
                Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                          -0.01372 -0.09714  -545.7  -471.4
2717   -763.4 L:60823 REDWING869.0 60824 FRONTNC869.0 1          51.3    48.0  0.00430          0.00360    36.5    33.7
              C:050    2                                   3716
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.03100  0.06362   901.3   852.7
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.01900 -0.06704  -692.1  -640.9
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          -0.00000 -0.00175    77.5    78.8
2718   -762.8 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          96.2    90.0  0.00819          0.00647    89.3    84.3
              C:34191 REASNOR5 161 64062 DMOINES5 161 1    2820
                Open 34191 REASNOR5 161 64062 DMOINES5 161 1                          -0.05642 -0.03041  -124.0  -100.8
2719   -762.4 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -205.3  -173.0 -0.04241         -0.08696  -215.1  -148.8
              C:63906 BVISTA 5 161 66563 SPENCER5 161 1    3474
                Open 63906 BVISTA 5 161 66563 SPENCER5 161 1                          -0.29760 -0.14970   -32.8    81.3
2720   -760.6 L:60824 FRONTNC869.0 61960 LAKECITY69.0 1          52.3    48.0  0.00561          0.00360    32.1    29.4
              C:60105 PR ISLD3 345 61950 BYRON  3 345 1     951
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                           0.02629  0.07639   767.2   709.1
2721   -759.3 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -195.2  -167.0 -0.03710         -0.03350  -177.1  -151.6
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                           0.02575 -0.13973  -702.5  -596.4
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2724   -754.5 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -49.4   -48.0 -0.00181         -0.00216   -53.9   -52.3
               C:050    2                                  3716
                 Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00380  0.06362   901.3   853.3
                 Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.00157 -0.06704  -692.1  -641.5
                 Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                         -0.00000 -0.00175    77.5    78.8
2725   -754.5 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         241.0   217.0  0.03179          0.03409   236.6   210.9
               C:34087 DYSART 5 161 64269 WASHBRN5 161 1    2772
                 Open 34087 DYSART 5 161 64269 WASHBRN5 161 1                          0.10535 -0.02187    41.7    58.2
2726   -751.9 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          84.2    80.0  0.00559          0.00593    81.8    77.3
               C:34188 OTTUMWA3 345 64095 MNTZUMA3 345 1    2819
                 Open 34188 OTTUMWA3 345 64095 MNTZUMA3 345 1                         -0.04172  0.00818   -58.0   -64.2
2727   -751.8 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          84.2    80.0  0.00559          0.00593    81.8    77.3
               C:34188 OTTUMWA3 345 34557 OTTUMWAY 345 1     308
                 Open 34188 OTTUMWA3 345 34557 OTTUMWAY 345 1                          0.04172 -0.00818    58.0    64.2
2728   -751.8 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          84.2    80.0  0.00559          0.00593    81.8    77.3
               C:34189 OTTUMWA5 161 34557 OTTUMWAY 345 1     311
                 Open 34189 OTTUMWA5 161 34557 OTTUMWAY 345 1                         -0.04172  0.00818   -58.0   -64.2
2729   -749.5 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -14.9   -12.0 -0.00384         -0.00453   -17.8   -14.4
               C:66561 DENISON5 161 66567 DENISON4 230 1    2513
                 Open 66561 DENISON5 161 66567 DENISON4 230 1                         -0.02082 -0.03279  -139.3  -114.8
2730   -746.7 L:34013 WNBAGOS5 161 34258 WBGOJ S869.0 1          32.5    30.0  0.00331          0.00274    26.1    24.0
               C:34013 WNBAGOS5 161 69529 WINNCO 5 161 1    2715
                 Open 34013 WNBAGOS5 161 69529 WINNCO 5 161 1                          0.12862  0.00450    49.7    46.4
2731   -745.9 L:60264 LOON LK7 115 61976 LOON LK869.0 1          78.2    75.0  0.00433          0.00538    85.3    81.3
               C:61950 BYRON  3 345 63032 PL VLLY3 345 1    3375
                 Open 61950 BYRON  3 345 63032 PL VLLY3 345 1                         -0.01246  0.08464   567.6   504.5
2732   -745.4 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -224.0  -200.0 -0.03224         -0.03224  -197.2  -173.2
               C:60003 PR IS31G20.0 60105 PR ISLD3 345 1    2893
                 Open 60003 PR IS31G20.0 60105 PR ISLD3 345 1                          0.05125  0.00000  -523.2  -523.2
2735   -743.8 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -224.0  -200.0 -0.03224         -0.03224  -197.2  -173.2
               C:60004 PR IS32G20.0 60105 PR ISLD3 345 1    2894
                 Open 60004 PR IS32G20.0 60105 PR ISLD3 345 1                          0.05125  0.00000  -522.2  -522.2
2736   -742.2 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -329.5  -318.0 -0.01551         -0.01397  -311.5  -301.2
               C:60156 PYNSVIL7 115 60162 WAKEFLD7 115 C1   1068
                 Open 60156 PYNSVIL7 115 60162 WAKEFLD7 115 C1                         -0.19200  0.00802    93.7    87.7
2737   -741.1 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         242.9   217.0  0.03493          0.03409   236.6   211.3
               C:34014 ADAMS  5 161 69526 BVR CRK5 161 1    2717
                 Open 34014 ADAMS  5 161 69526 BVR CRK5 161 1                          0.03716  0.02271   169.6   152.8
2738   -740.0 L:60756 ALBANY 869.0 62838 FARMING869.0 1         -28.4   -27.6 -0.00104         -0.00055   -18.3   -17.9
               C:60752 BLCKOAK869.0 60754 MELRSMU869.0 1    1431
                 Open 60752 BLCKOAK869.0 60754 MELRSMU869.0 1                         -0.62927  0.00078    16.1    15.5
2739   -737.9 L:34590 GRDRVRE869.0 34643 GRRIVER869.0 1          14.4    12.0  0.00331          0.00108     7.4     6.6
               C:34176 MT AYR 869.0 34646 BEACNRC869.0 1     278
                 Open 34176 MT AYR 869.0 34646 BEACNRC869.0 1                          0.64584  0.00345    10.9     8.4
2740   -737.7 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         243.1   217.0  0.03534          0.03409   236.6   211.4
               C:34010 HAYWARD5 161 34015 LIME CK5 161 1      35
                 Open 34010 HAYWARD5 161 34015 LIME CK5 161 1                         -0.12147 -0.01032   -53.4   -45.8
2741   -734.0 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -17.9   -17.3 -0.00085         -0.00089   -19.8   -19.1
               C:60202 COON CK3 345 63031 BUNKER 3 345 1    1158
                 Open 60202 COON CK3 345 63031 BUNKER 3 345 1                         -0.00513 -0.00803  -364.6  -358.7
2742   -733.9 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -49.5   -48.0 -0.00200         -0.00216   -53.9   -52.3
               C:60791 FARIBLT869.0 60792 WFARBLT869.0 1    1462
                 Open 60791 FARIBLT869.0 60792 WFARBLT869.0 1                         -0.07455 -0.00211   -59.2   -57.6
2743   -733.4 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         243.2   217.0  0.03568          0.03409   236.6   211.6
               C:34079 TRAER  5 161 34087 DYSART 5 161 1     163
                 Open 34079 TRAER  5 161 34087 DYSART 5 161 1                          0.06229  0.02549   105.6    86.9
2744   -729.6 L:62980 MCLEOD 4 230 63054 PANTHER4 230 1        -337.1  -319.0 -0.02479         -0.01700  -276.4  -264.0
               C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                 Open 60108 WILMART3 345 60192 BLUE LK3 345 1                         -0.06883  0.11317   881.7   799.2
2745   -729.3 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         242.4   217.0  0.03484          0.03409   236.6   211.7
               C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                 Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          0.00660  0.11317   881.7   799.2
2746   -727.8 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         241.1   217.0  0.03316          0.03409   236.6   211.8
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              C:34018 HAZLTON3 345 34020 HAZL S 5 161 2      54
                Open 34018 HAZLTON3 345 34020 HAZL S 5 161 2                          0.04022 -0.02325   112.9   129.8
2747   -726.8 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -14.6   -12.0 -0.00357         -0.00453   -17.8   -14.5
              C:34200 CNTRVIL869.0 34624 NUMATAP869.0 1     326
                Open 34200 CNTRVIL869.0 34624 NUMATAP869.0 1                         -0.28196 -0.00339   -11.3    -8.8
2748   -724.8 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -228.0  -200.0 -0.03862         -0.03224  -197.2  -173.9
              C:34009 WINBAGO5 161 61932 RUTLAND5 161 1      32
                Open 34009 WINBAGO5 161 61932 RUTLAND5 161 1                          0.12515 -0.05102  -245.9  -208.9
2749   -721.6 L:62933 HIGHLND869.0 62934 HOWARDL869.0 1         -14.3   -13.7 -0.00089
                Base Case
2750   -720.3 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -14.6   -12.0 -0.00357         -0.00453   -17.8   -14.5
              C:34624 NUMATAP869.0 34633 PROMISE869.0 1     724
                Open 34624 NUMATAP869.0 34633 PROMISE869.0 1                         -0.28196 -0.00339   -11.4    -8.9
2751   -720.2 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         242.3   217.0  0.03517          0.03409   236.6   212.0
              C:34068 M-TOWN 5 161 34079 TRAER  5 161 1     151
                Open 34068 M-TOWN 5 161 34079 TRAER  5 161 1                          0.05970  0.01809    96.2    83.2
2752   -714.6 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -14.6   -12.0 -0.00357         -0.00453   -17.8   -14.5
              C:34633 PROMISE869.0 34634 HRVRDTP869.0 1     733
                Open 34633 PROMISE869.0 34634 HRVRDTP869.0 1                         -0.28196 -0.00339   -11.5    -9.0
2753   -713.9 L:34265 WALTERS869.0 34285 ALDEN J869.0 1          49.0    44.0  0.00704          0.00555    37.4    33.4
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          0.01321  0.11317   881.7   800.9
2754   -712.1 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -59.9   -58.0 -0.00273
                Base Case
2755   -711.7 L:34590 GRDRVRE869.0 34643 GRRIVER869.0 1          14.4    12.0  0.00331          0.00108     7.4     6.6
              C:34644 ELLSTNR869.0 34646 BEACNRC869.0 1     744
                Open 34644 ELLSTNR869.0 34646 BEACNRC869.0 1                         -0.64584 -0.00345   -10.8    -8.3
2756   -710.8 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -48.9   -48.0 -0.00122         -0.00216   -44.9   -43.4
              C:60787 NOFIELD869.0 60801 CNFLSTR869.0 1    1457
                Open 60787 NOFIELD869.0 60801 CNFLSTR869.0 1                          0.50545  0.00185    -7.8    -9.1
2757   -709.5 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          73.1    60.0  0.01848          0.01629    65.0    53.4
              C:34018 HAZLTON3 345 60102 ADAMS  3 345 1      56
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                         -0.01542 -0.14203  -525.7  -424.9
2758   -707.5 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          73.1    60.0  0.01847          0.01629    65.0    53.5
              C:825                                        3771
                Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                          0.00016 -0.09714  -545.7  -476.9
                Open 34014 ADAMS  5 161 60102 ADAMS  3 345 1                          0.00000  0.02245    -2.8   -18.7
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                         -0.01551 -0.14203  -525.7  -425.2
2759   -706.1 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          14.4    13.7  0.00104          0.00089    11.3    10.7
              C:CNC-DKN/SHC3                               3634
                Open 60202 COON CK3 345 63030 DICKNSN3 345 1                         -0.00893 -0.01742  -393.2  -380.9
                Open 60202 COON CK3 345 60272 MPLEGV23 345 1                          0.00076 -0.00782  -475.5  -470.0
2760   -704.5 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -14.5   -12.0 -0.00357         -0.00453   -17.8   -14.6
              C:34175 CORYDON869.0 34634 HRVRDTP869.0 1     276
                Open 34175 CORYDON869.0 34634 HRVRDTP869.0 1                          0.28196  0.00339    11.6     9.2
2761   -699.1 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         241.3   217.0  0.03473          0.03409   236.6   212.8
              C:34072 FRNKLIN7 115 34077 IA FALS7 115 1     155
                Open 34072 FRNKLIN7 115 34077 IA FALS7 115 1                          0.05159  0.01241    91.0    82.3
2762   -699.1 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         241.3   217.0  0.03473          0.03409   236.6   212.8
              C:34571 FRNKLN_Y 161 64239 FRANKLN5 161 1    2856
                Open 34571 FRNKLN_Y 161 64239 FRANKLN5 161 1                         -0.05159 -0.01241   -91.0   -82.3
2763   -699.1 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         241.3   217.0  0.03473          0.03409   236.6   212.8
              C:34072 FRNKLIN7 115 34571 FRNKLN_Y 161 1     156
                Open 34072 FRNKLIN7 115 34571 FRNKLN_Y 161 1                         -0.05159 -0.01241   -91.0   -82.3
2764   -696.3 L:61615 ARROWHD4 230 61619 AHD PST  230 1         791.4   750.0  0.05940          0.03683   546.5   520.8
              C:050    1                                   3715
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.05500  0.06362   901.3   857.0
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.27301 -0.06704  -692.1  -645.4
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                         -0.00000 -0.00175    77.5    78.7
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                         -0.18086 -0.00300     0.0     2.1
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                         -0.14888 -0.00148   -42.6   -41.6
2765   -696.0 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -190.9  -167.0 -0.03427         -0.03350  -177.1  -153.8
              C:ASK-RRK/ECL3                               3642
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                Open 60186 AS KING3 345 60236 REDROCK3 345 1                          -0.00388 -0.01969   140.3   154.0
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          -0.01848  0.06362   901.3   857.0
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.00495 -0.06704  -692.1  -645.4
2766   -694.6 L:61618 ARROWHD3 345 61619 AHD PST  230 1        -791.3  -750.0 -0.05940         -0.03683  -546.4  -520.8
              C:050    1                                   3715
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          -0.05500  0.06362   901.3   857.1
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.27301 -0.06704  -692.1  -645.5
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          -0.00000 -0.00175    77.5    78.7
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                           0.18086 -0.00300     0.0     2.1
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                           0.14888 -0.00148   -42.6   -41.6
2767   -694.1 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         241.6   217.0  0.03539          0.03409   236.6   212.9
              C:34010 HAYWARD5 161 61984 AUSTIN 5 161 1    2711
                Open 34010 HAYWARD5 161 61984 AUSTIN 5 161 1                           0.04460  0.02924   111.6    91.3
2768   -689.9 L:34073 GR JCT 7 115 34529 GRJCT5Y  161 1         -59.9   -50.0 -0.01442         -0.00401   -29.8   -27.0
              C:34054 GR JCT 5 161 34058 PERRY  5 161 1     120
                Open 34054 GR JCT 5 161 34058 PERRY  5 161 1                          -0.28735  0.03623   105.0    80.0
2769   -689.9 L:34054 GR JCT 5 161 34529 GRJCT5Y  161 1          59.9    50.0  0.01442          0.00401    29.8    27.0
              C:34054 GR JCT 5 161 34058 PERRY  5 161 1     120
                Open 34054 GR JCT 5 161 34058 PERRY  5 161 1                           0.28735  0.03623   105.0    80.0
2770   -689.8 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -226.0  -200.0 -0.03768         -0.03224  -197.2  -175.0
              C:34010 HAYWARD5 161 34013 WNBAGOS5 161 1      33
                Open 34010 HAYWARD5 161 34013 WNBAGOS5 161 1                           0.16251 -0.03350  -177.1  -154.0
2771   -688.9 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         240.5   217.0  0.03409          0.03409   236.6   213.1
              C:34395 EMERY S869.0 34403 CL LAKT869.0 1     552
                Open 34395 EMERY S869.0 34403 CL LAKT869.0 1                           0.15420  0.00000    25.3    25.3
2772   -688.4 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -14.8   -12.0 -0.00413         -0.00453   -17.8   -14.7
              C:34177 APANOSE869.0 34200 CNTRVIL869.0 1     280
                Open 34177 APANOSE869.0 34200 CNTRVIL869.0 1                          -0.11559 -0.00340   -25.4   -23.1
2773   -688.0 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          37.1    36.0  0.00162          0.00284    33.0    31.1
              C:60935 BUTRFLD869.0 62804 SVEADTP869.0 1    3219
                Open 60935 BUTRFLD869.0 62804 SVEADTP869.0 1                          -0.35456  0.00344   -11.5   -13.9
2774   -687.4 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -190.7  -167.0 -0.03446         -0.03350  -177.1  -154.0
              C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          -0.01510  0.06362   901.3   857.6
2775   -685.9 L:64256 UNIONTP5 161 64655 UNI MID869.0 1         103.0   100.0  0.00436          0.00392    99.8    97.1
              C:34072 FRNKLIN7 115 34077 IA FALS7 115 1     155
                Open 34072 FRNKLIN7 115 34077 IA FALS7 115 1                           0.03510  0.01241    91.0    82.4
2776   -685.9 L:64256 UNIONTP5 161 64655 UNI MID869.0 1         103.0   100.0  0.00436          0.00392    99.8    97.1
              C:34072 FRNKLIN7 115 34571 FRNKLN_Y 161 1     156
                Open 34072 FRNKLIN7 115 34571 FRNKLN_Y 161 1                          -0.03510 -0.01241   -91.0   -82.4
2777   -685.9 L:64256 UNIONTP5 161 64655 UNI MID869.0 1         103.0   100.0  0.00436          0.00392    99.8    97.1
              C:34571 FRNKLN_Y 161 64239 FRANKLN5 161 1    2856
                Open 34571 FRNKLN_Y 161 64239 FRANKLN5 161 1                          -0.03510 -0.01241   -91.0   -82.4
2778   -685.8 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         240.7   217.0  0.03462          0.03409   236.6   213.2
              C:885                                       3780
                Open 69507 SENECA 5 161 69511 BELLCTR5 161 1                          -0.00793  0.00408   129.4   126.6
                Open 69507 SENECA 5 161 69523 GENOA  5 161 1                          -0.01819 -0.03083  -284.7  -263.6
2779   -684.4 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -191.4  -167.0 -0.03569         -0.03350  -177.1  -154.1
              C:BLL-PRI/IVH3                              3638
                Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                           0.02941 -0.03964  -143.5  -116.4
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.02126  0.04835   476.6   443.5
2780   -683.7 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -190.9  -167.0 -0.03494         -0.03350  -177.1  -154.2
              C:34006 LAKEFLD3 345 63875 RAUN   3 345 1    2708
                Open 34006 LAKEFLD3 345 63875 RAUN   3 345 1                          -0.04629  0.03120   298.4   277.1
2781   -681.6 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -191.3  -167.0 -0.03561         -0.03350  -177.1  -154.2
              C:34265 WALTERS869.0 34285 ALDEN J869.0 1     429
                Open 34265 WALTERS869.0 34285 ALDEN J869.0 1                          -0.37966  0.00555    37.4    33.6
2782   -680.0 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -221.9  -200.0 -0.03224         -0.03224  -197.2  -175.3
              C:60000 SHERC31G24.0 60160 SHERCO 3 345 1    2890
                Open 60000 SHERC31G24.0 60160 SHERCO 3 345 1                           0.04257  0.00000  -580.3  -580.3
2783   -678.2 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          14.3    13.7  0.00095          0.00089    11.3    10.7
              C:60152 MNTCELO4 230 63043 ELK RIV4 230 1    1060
                Open 60152 MNTCELO4 230 63043 ELK RIV4 230 1                           0.01556  0.00329   196.5   194.2
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2784   -676.9 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -49.8   -48.0 -0.00259         -0.00216   -44.9   -43.4
              C:60796 KENYON 869.0 60819 CHERYTP869.0 1    1467
                Open 60796 KENYON 869.0 60819 CHERYTP869.0 1                          -0.27260  0.00161    17.8    16.7
2785   -675.2 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -327.4  -318.0 -0.01397         -0.01397  -311.5  -302.1
              C:60006 KING 31G20.0 60186 AS KING3 345 1    2896
                Open 60006 KING 31G20.0 60186 AS KING3 345 1                           0.03448  0.00000  -461.4  -461.4
2786   -672.0 L:60797 KENYNTP869.0 62389 KENYON 869.0 1         -39.5   -37.0 -0.00373         -0.00161   -23.0   -21.9
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          -0.01873  0.11317   881.7   805.7
2787   -670.3 L:34059 BOONE  7 115 34073 GR JCT 7 115 1         -59.7   -50.0 -0.01442         -0.00401   -29.5   -26.8
              C:34054 GR JCT 5 161 34058 PERRY  5 161 1     120
                Open 34054 GR JCT 5 161 34058 PERRY  5 161 1                          -0.28735  0.03623   105.0    80.7
2788   -668.9 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -221.6  -200.0 -0.03224         -0.03224  -197.2  -175.7
              C:60005 MNTCE31G22.0 60151 MNTCELO3 345 1    2895
                Open 60005 MNTCE31G22.0 60151 MNTCELO3 345 1                           0.04261  0.00000  -571.4  -571.4
2789   -667.6 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          14.0    13.7  0.00051          0.00089    11.3    10.7
              C:62929 ALBERTV869.0 62938 OTSEGO 869.0 1    1998
                Open 62929 ALBERTV869.0 62938 OTSEGO 869.0 1                          -0.31429  0.00123    -8.8    -9.6
2790   -666.8 L:34423 MONONA_869.0 68748 POST    69.0 1         -48.5   -45.0 -0.00520         -0.00284   -27.3   -25.4
              C:34443 HARPTAP869.0 34457 WAT TAP869.0 1     609
                Open 34443 HARPTAP869.0 34457 WAT TAP869.0 1                          -0.74689  0.00316    28.3    26.2
2791   -666.5 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         239.7   217.0  0.03409          0.03409   236.6   213.9
              C:34401 6THAVET869.0 34403 CL LAKT869.0 1     556
                Open 34401 6THAVET869.0 34403 CL LAKT869.0 1                           0.15420  0.00000    20.3    20.3
2792   -665.7 L:34013 WNBAGOS5 161 34258 WBGOJ S869.0 1          32.2    30.0  0.00334          0.00274    26.1    24.3
              C:PRI-BYN/RRK3                               3646
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                           0.00799  0.07639   767.2   716.3
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                           0.00011 -0.01725   152.8   164.2
2793   -664.9 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -233.2  -173.0 -0.09056         -0.08696  -215.1  -157.3
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                           0.02579 -0.13973  -702.5  -609.6
2794   -664.8 L:60156 PYNSVIL7 115 60760 PAYNES 869.0 P2         48.2    47.0  0.00186          0.00115    29.8    29.0
              C:60156 PYNSVIL7 115 60760 PAYNES 869.0 P1   1070
                Open 60156 PYNSVIL7 115 60760 PAYNES 869.0 P1                          0.62040  0.00115    29.8    29.0
2795   -664.8 L:60156 PYNSVIL7 115 60760 PAYNES 869.0 P1         48.2    47.0  0.00186          0.00115    29.8    29.0
              C:60156 PYNSVIL7 115 60760 PAYNES 869.0 P2   1071
                Open 60156 PYNSVIL7 115 60760 PAYNES 869.0 P2                          0.62040  0.00115    29.8    29.0
2796   -664.8 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -221.4  -200.0 -0.03224         -0.03224  -197.2  -175.8
              C:60001 SHERC32G24.0 60160 SHERCO 3 345 1    2891
                Open 60001 SHERC32G24.0 60160 SHERCO 3 345 1                           0.04257  0.00000  -568.8  -568.8
2797   -664.3 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         239.6   217.0  0.03409          0.03409   236.6   213.9
              C:34390 MCNWCSS869.0 34397 GENFODT869.0 1     546
                Open 34390 MCNWCSS869.0 34397 GENFODT869.0 1                           0.13882  0.00000    22.0    22.0
2798   -663.3 L:60719 LAFAYET869.0 62079 LAFAYTT869.0 1         -39.3   -37.0 -0.00349         -0.00152   -24.0   -22.9
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          -0.01742  0.11317   881.7   806.7
2799   -663.0 L:34590 GRDRVRE869.0 34643 GRRIVER869.0 1          14.2    12.0  0.00331          0.00108     7.4     6.7
              C:34643 GRRIVER869.0 34644 ELLSTNR869.0 1     742
                Open 34643 GRRIVER869.0 34644 ELLSTNR869.0 1                          -0.64584 -0.00345   -10.5    -8.3
2800   -658.5 L:61615 ARROWHD4 230 61624 FORBES 4 230 1        -333.8  -320.0 -0.02101         -0.01326  -241.3  -232.5
              C:050    2                                   3716
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          -0.05131  0.06362   901.3   859.4
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.06693 -0.06704  -692.1  -648.0
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                           0.00000 -0.00175    77.5    78.6
2801   -658.5 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          14.6    13.7  0.00132          0.00089    11.3    10.7
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                           0.00372  0.11317   881.7   807.2
2802   -658.3 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         239.1   217.0  0.03358          0.03409   236.6   214.1
              C:34018 HAZLTON3 345 34019 HAZLTON5 161 1      53
                Open 34018 HAZLTON3 345 34019 HAZLTON5 161 1                           0.03172 -0.01603    79.4    89.9
2803   -657.2 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          70.7    60.0  0.01633          0.01629    65.0    54.3
              C:34091 ARNOLD 5 161 34105 HIAWATA5 161 1     178
                Open 34091 ARNOLD 5 161 34105 HIAWATA5 161 1                           0.03337  0.00122   171.6   170.8
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2804   -653.5 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         239.7   217.0  0.03473          0.03409   236.6   214.3
              C:34075 ELDORA 7 115 34077 IA FALS7 115 1     160
                Open 34075 ELDORA 7 115 34077 IA FALS7 115 1                          -0.05159 -0.01241   -60.2   -52.1
2805   -653.2 L:60264 LOON LK7 115 61976 LOON LK869.0 1          78.0    75.0  0.00464          0.00538    85.3    81.8
              C:34308 WASECAT869.0 61160 MERIDAN869.0 1     482
                Open 34308 WASECAT869.0 61160 MERIDAN869.0 1                          -0.40137  0.00186    18.1    16.9
2806   -653.2 L:60264 LOON LK7 115 61976 LOON LK869.0 1          78.0    75.0  0.00464          0.00538    85.3    81.8
              C:34308 WASECAT869.0 60829 WAS MUN869.0 1     481
                Open 34308 WASECAT869.0 60829 WAS MUN869.0 1                           0.40137 -0.00186   -18.1   -16.9
2807   -652.8 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -190.2  -167.0 -0.03561         -0.03350  -177.1  -155.2
              C:34285 ALDEN J869.0 34286 ALEAWST869.0 1     455
                Open 34285 ALDEN J869.0 34286 ALEAWST869.0 1                          -0.37966  0.00555    34.7    31.1
2808   -652.8 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         239.5   217.0  0.03447          0.03409   236.6   214.3
              C:34022 LANSING5 161 69531 POSTVIL5 161 1    2731
                Open 34022 LANSING5 161 69531 POSTVIL5 161 1                           0.03997  0.00950    72.9    66.7
2809   -652.7 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -189.9  -167.0 -0.03507         -0.03350  -177.1  -155.2
              C:60265 LOON TP7 115 60830 EASTWD18 115 P1   1275
                Open 60265 LOON TP7 115 60830 EASTWD18 115 P1                          0.06124 -0.02555  -209.2  -192.5
2810   -652.7 L:34013 WNBAGOS5 161 34258 WBGOJ S869.0 1          32.2    30.0  0.00334          0.00274    26.1    24.3
              C:60105 PR ISLD3 345 61950 BYRON  3 345 1     951
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                           0.00796  0.07639   767.2   717.3
2811   -648.8 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         239.2   217.0  0.03425          0.03409   236.6   214.5
              C:66506 FTTHOMP3 345 66571 GR ISLD3 345 1    3552
                Open 66506 FTTHOMP3 345 66571 GR ISLD3 345 1                           0.00619  0.02536   425.1   408.7
2812   -647.8 L:61615 ARROWHD4 230 61619 AHD PST  230 1         787.5   750.0  0.05795          0.03683   546.5   522.6
              C:ASK-RRK/ECL3                               3642
                Open 60186 AS KING3 345 60236 REDROCK3 345 1                           0.02067 -0.01969   140.3   153.1
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.06511  0.06362   901.3   860.1
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.25930 -0.06704  -692.1  -648.7
2813   -646.6 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         239.0   217.0  0.03409          0.03409   236.6   214.5
              C:34401 6THAVET869.0 34411 CLGRTLK869.0 1     557
                Open 34401 6THAVET869.0 34411 CLGRTLK869.0 1                           0.15420  0.00000    15.9    15.9
2814   -646.1 L:61618 ARROWHD3 345 61619 AHD PST  230 1        -787.4  -750.0 -0.05795         -0.03683  -546.4  -522.6
              C:ASK-RRK/ECL3                               3642
                Open 60186 AS KING3 345 60236 REDROCK3 345 1                          -0.02067 -0.01969   140.3   153.0
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          -0.06511  0.06362   901.3   860.2
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.25930 -0.06704  -692.1  -648.8
2815   -645.4 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -189.1  -167.0 -0.03426         -0.03350  -177.1  -155.5
              C:050    2                                   3716
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          -0.01719  0.06362   901.3   860.2
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.00500 -0.06704  -692.1  -648.8
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          -0.00000 -0.00175    77.5    78.6
2816   -644.7 L:34138 DUNDEE 869.0 34521 GRELYTP869.0 1          26.3    24.0  0.00363          0.00309    22.1    20.1
              C:885                                        3780
                Open 69507 SENECA 5 161 69511 BELLCTR5 161 1                          -0.00772  0.00408   129.4   126.8
                Open 69507 SENECA 5 161 69523 GENOA  5 161 1                          -0.01857 -0.03083  -284.7  -264.8
2817   -644.2 L:60310 MONROCO5 161 60949 MONROCO869.0 1          72.2    70.0  0.00334          0.00246    66.3    64.7
              C:60959 T MEL1 869.0 60960 T MEL2 869.0 1    1566
                Open 60959 T MEL1 869.0 60960 T MEL2 869.0 1                          -0.42122 -0.00208   -13.9   -12.5
2818   -643.8 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         239.1   217.0  0.03435          0.03409   236.6   214.6
              C:34006 LAKEFLD3 345 63875 RAUN   3 345 1    2708
                Open 34006 LAKEFLD3 345 63875 RAUN   3 345 1                           0.00847  0.03120   298.4   278.3
2819   -642.4 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         239.4   217.0  0.03493          0.03409   236.6   214.7
              C:34061 BNE JCT5 161 64205 FT.DODG5 161 1    2756
                Open 34061 BNE JCT5 161 64205 FT.DODG5 161 1                          -0.02185 -0.03824  -130.3  -105.7
2820   -642.2 L:60310 MONROCO5 161 60949 MONROCO869.0 1          72.1    70.0  0.00334          0.00246    66.3    64.7
              C:60957 CATARAC869.0 60959 T MEL1 869.0 1    1563
                Open 60957 CATARAC869.0 60959 T MEL1 869.0 1                          -0.42122 -0.00208   -13.9   -12.5
2821   -641.6 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         238.9   217.0  0.03409          0.03409   236.6   214.7
              C:34098 PR CRK4G18.0 34099 PRAR CK7 115 1    2782
                Open 34098 PR CRK4G18.0 34099 PRAR CK7 115 1                          -0.01730  0.00000  -132.0  -132.0
2822   -640.2 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          37.9    36.0  0.00296          0.00284    33.0    31.2
              C:34230 COMFREY869.0 34281 MTLAKET869.0 1     381
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                Open 34230 COMFREY869.0 34281 MTLAKET869.0 1                          -0.40950 -0.00029   -11.9   -11.7
2823   -636.9 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         239.1   217.0  0.03473          0.03409   236.6   214.9
               C:34075 ELDORA 7 115 34169 WELSBGT7 115 1     161
                Open 34075 ELDORA 7 115 34169 WELSBGT7 115 1                           0.05159  0.01241    49.1    41.2
2824   -636.9 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         239.2   217.0  0.03481          0.03409   236.6   214.9
               C:34010 HAYWARD5 161 34014 ADAMS  5 161 1      34
                Open 34010 HAYWARD5 161 34014 ADAMS  5 161 1                           0.03236  0.02214    79.8    65.6
2825   -635.9 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -188.3  -167.0 -0.03350         -0.03350  -177.1  -155.8
               C:34016 EMERY  5 161 34912 EMERYST118.0 1    2723
                Open 34016 EMERY  5 161 34912 EMERYST118.0 1                           0.04416  0.00000  -254.2  -254.2
2826   -635.0 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         238.6   217.0  0.03409          0.03409   236.6   214.9
               C:34405 CLNNGST869.0 34406 CLNNG S869.0 1     560
                Open 34405 CLNNGST869.0 34406 CLNNG S869.0 1                           0.15421  0.00000    13.4    13.4
2827   -635.0 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         238.6   217.0  0.03409          0.03409   236.6   214.9
               C:34396 EMERY N869.0 34405 CLNNGST869.0 1     553
                Open 34396 EMERY N869.0 34405 CLNNGST869.0 1                           0.15421  0.00000    13.4    13.4
2828   -633.4 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          84.1    80.0  0.00649          0.00593    81.8    78.0
               C:34179 JASPER 5 161 64189 NEANKNY5 161 1    2816
                Open 34179 JASPER 5 161 64189 NEANKNY5 161 1                          -0.02666 -0.02084   -87.3   -74.1
2829   -632.2 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -188.9  -167.0 -0.03457         -0.03350  -177.1  -155.9
               C:34013 WNBAGOS5 161 69529 WINNCO 5 161 1    2715
                Open 34013 WNBAGOS5 161 69529 WINNCO 5 161 1                          -0.23671  0.00450    49.7    46.9
2830   -631.6 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         238.5   217.0  0.03409          0.03409   236.6   215.1
               C:34406 CLNNG S869.0 34407 NNG MTR869.0 1     561
                Open 34406 CLNNG S869.0 34407 NNG MTR869.0 1                           0.15421  0.00000    12.6    12.6
2831   -629.5 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         238.5   217.0  0.03409          0.03409   236.6   215.1
               C:X0897-0898o1                               3647
                Open 60193 BLUE LK7 115 60215 HYLNDLK7 115 1                          -0.00004 -0.00067   172.8   173.2
                Open 60215 HYLNDLK7 115 60261 DEANLAK7 115 1     NA
                Open 60244 SCOTTCO7 115 60261 DEANLAK7 115 1                           0.01655  0.00000   113.6   113.6
2832   -628.3 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         238.4   217.0  0.03409          0.03409   236.6   215.2
               C:34397 GENFODT869.0 34398 GENFODS869.0 1     554
                Open 34397 GENFODT869.0 34398 GENFODS869.0 1                           0.13882  0.00000    13.2    13.2
2833   -628.1 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -328.5  -318.0 -0.01667         -0.01397  -311.5  -302.7
               C:60148 MINVALY7 115 60149 MINVALT4 230 C1   1048
                Open 60148 MINVALY7 115 60149 MINVALT4 230 C1                         -0.93143  0.00290    18.2    16.4
2834   -627.0 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -328.5  -318.0 -0.01667         -0.01397  -311.5  -302.8
               C:60149 MINVALT4 230 60150 MNVLTAP4 230 1    1055
                Open 60149 MINVALT4 230 60150 MNVLTAP4 230 1                          -0.93143  0.00290    18.2    16.4
2835   -625.7 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -228.5  -173.0 -0.08868         -0.08696  -215.1  -160.7
               C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          -0.01518  0.11317   881.7   810.9
2836   -623.7 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         238.3   217.0  0.03409          0.03409   236.6   215.3
               C:34387 MCLPCSS869.0 34388 HOLNAMW869.0 1     542
                Open 34387 MCLPCSS869.0 34388 HOLNAMW869.0 1                           0.14069  0.00000    11.9    11.9
2837   -623.2 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         238.3   217.0  0.03415          0.03409   236.6   215.3
               C:34016 EMERY  5 161 34395 EMERY S869.0 1      50
                Open 34016 EMERY  5 161 34395 EMERY S869.0 1                           0.02524  0.00244    67.2    65.7
2838   -623.2 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         238.3   217.0  0.03415          0.03409   236.6   215.3
               C:34016 EMERY  5 161 34396 EMERY N869.0 1      51
                Open 34016 EMERY  5 161 34396 EMERY N869.0 1                           0.02524  0.00244    67.2    65.7
2839   -621.2 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -229.7  -173.0 -0.09133         -0.08696  -215.1  -161.1
               C:34054 GR JCT 5 161 63771 DRAGER 5 161 1    2748
                Open 34054 GR JCT 5 161 63771 DRAGER 5 161 1                           0.11815 -0.03698  -123.9  -100.9
2840   -621.2 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         238.1   217.0  0.03405          0.03409   236.6   215.4
               C:60131 SPLTRTB3 345 66564 SIOUXCY3 345 1    1009
                Open 60131 SPLTRTB3 345 66564 SIOUXCY3 345 1                           0.00287 -0.01463   543.3   552.4
2841   -621.2 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         238.1   217.0  0.03405          0.03409   236.6   215.4
               C:60126 SPLT RK3 345 60131 SPLTRTB3 345 1    1002
                Open 60126 SPLT RK3 345 60131 SPLTRTB3 345 1                           0.00287 -0.01463   543.3   552.4
2842   -620.2 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -14.1   -12.0 -0.00331         -0.00453   -17.8   -15.0
               C:34643 GRRIVER869.0 34644 ELLSTNR869.0 1     742
                Open 34643 GRRIVER869.0 34644 ELLSTNR869.0 1                          -0.35416 -0.00345   -10.5    -8.4
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2843   -620.1 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          72.7    60.0  0.02047          0.01629    65.0    54.9
              C:34018 HAZLTON3 345 34093 ARNOLD 3 345 1      55
                Open 34018 HAZLTON3 345 34093 ARNOLD 3 345 1                          0.02306  0.18131   333.4   221.0
2844   -619.2 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         238.1   217.0  0.03409          0.03409   236.6   215.5
              C:MOL-RIV/CNC7                                3679
                Open 60203 COON CK7 115 60229 MOORELK7 115 1                          0.00002  0.00098   139.6   139.0
                Open 60229 MOORELK7 115 60240 RIVRSID7 115 1                          0.01576  0.00000    96.2    96.2
2845   -619.0 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -227.6  -173.0 -0.08820         -0.08696  -215.1  -161.3
              C:PRI-BYN/RRK3                                3646
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                         -0.01623  0.07639   767.2   719.9
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                         -0.00028 -0.01725   152.8   163.4
2846   -618.3 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -189.2  -167.0 -0.03587         -0.03350  -177.1  -156.4
              C:700    1                                    3737
                Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                          0.03040 -0.03964  -143.5  -119.0
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.01278  0.04835   476.6   446.7
                Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                         -0.01044  0.05190   157.6   125.5
2847   -618.1 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         238.1   217.0  0.03418          0.03409   236.6   215.5
              C:34393 MCHW106869.0 34395 EMERY S869.0 1     550
                Open 34393 MCHW106869.0 34395 EMERY S869.0 1                         -0.03026 -0.00289   -50.8   -49.0
2848   -618.0 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         238.3   217.0  0.03443          0.03409   236.6   215.5
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                         -0.00240 -0.13973  -702.5  -616.2
2849   -618.0 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         238.2   217.0  0.03433          0.03409   236.6   215.5
              C:66565 SIOUXCY4 230 66567 DENISON4 230 1    2520
                Open 66565 SIOUXCY4 230 66567 DENISON4 230 1                          0.00673  0.03530   241.7   219.8
2850   -617.7 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -227.5  -173.0 -0.08819         -0.08696  -215.1  -161.4
              C:60105 PR ISLD3 345 61950 BYRON  3 345 1     951
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                         -0.01614  0.07639   767.2   720.0
2851   -617.1 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         238.4   217.0  0.03462          0.03409   236.6   215.6
              C:34054 GR JCT 5 161 63771 DRAGER 5 161 1    2748
                Open 34054 GR JCT 5 161 63771 DRAGER 5 161 1                         -0.01433 -0.03698  -123.9  -101.1
2852   -616.6 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          83.8    80.0  0.00614          0.00593    81.8    78.1
              C:34204 JASPER 869.0 34549 JASPER Y 161 1     332
                Open 34204 JASPER 869.0 34549 JASPER Y 161 1                         -0.05018 -0.00409   -39.9   -37.4
2853   -616.6 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          83.8    80.0  0.00614          0.00593    81.8    78.1
              C:34204 JASPER 869.0 34574 AURORA 869.0 1     333
                Open 34204 JASPER 869.0 34574 AURORA 869.0 1                          0.05018  0.00409    39.9    37.4
2854   -616.6 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          83.8    80.0  0.00614          0.00593    81.8    78.1
              C:34179 JASPER 5 161 34549 JASPER Y 161 1     286
                Open 34179 JASPER 5 161 34549 JASPER Y 161 1                          0.05018  0.00409    39.9    37.4
2855   -615.2 L:60864 TCAAPTP869.0 60909 ARDNHL2869.0 1         -51.5   -50.0 -0.00245         -0.00119   -16.4   -15.6
              C:CHI-WYO/LIN7                                3650
                Open 60196 CHI    7 115 60345 WYOMING7 115 1                          0.00746 -0.00191    63.9    65.0
                Open 60196 CHI    7 115 60920 LINDSTM7 115 C1                        -0.13704  0.00913   259.9   254.3
2856   -611.7 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          14.3    13.7  0.00105          0.00089    11.3    10.7
              C:009   4                                     3698
                Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                         -0.00074  0.00782   479.8   475.0
                Open 60202 COON CK3 345 60272 MPLEGV23 345 1                         -0.00397  0.00000     4.2     4.2
                Open 60202 COON CK3 345 63030 DICKNSN3 345 1                         -0.00896 -0.01742  -393.2  -382.5
                Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                         -0.00029 -0.00156   331.6   332.5
                Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                         -0.00368  0.00000     0.1     0.1
                Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1     NA
2857   -611.6 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         238.0   217.0  0.03426          0.03409   236.6   215.7
              C:34371 RICE   869.0 34415 CRESCO 869.0 1     526
                Open 34371 RICE   869.0 34415 CRESCO 869.0 1                          0.03978  0.00424    34.3    31.7
2858   -611.6 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         237.7   217.0  0.03384          0.03409   236.6   215.7
              C:34036 ROCK CK3 345 36382 QUAD ;   345 1    2734
                Open 34036 ROCK CK3 345 36382 QUAD ;   345 1                         -0.00457  0.05461  -242.5  -275.9
2859   -610.4 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         237.8   217.0  0.03409          0.03409   236.6   215.8
              C:34391 HOLNAME869.0 34397 GENFODT869.0 1     547
                Open 34391 HOLNAME869.0 34397 GENFODT869.0 1                          0.13882  0.00000     8.8     8.8
2860   -610.3 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         237.8   217.0  0.03409          0.03409   236.6   215.8
              C:34066 M-TOWN 7 115 34088 M-TOWN3G13.8 1    2761
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                Open 34066 M-TOWN 7 115 34088 M-TOWN3G13.8 1                          -0.01504  0.00000   -81.0   -81.0
2861   -610.0 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         238.0   217.0  0.03444          0.03409   236.6   215.8
              C:34191 REASNOR5 161 64062 DMOINES5 161 1    2820
                Open 34191 REASNOR5 161 64062 DMOINES5 161 1                          -0.01146 -0.03041  -124.0  -105.4
2862   -609.9 L:60825 WABASHA869.0 61960 LAKECITY69.0 1         -37.4   -34.0 -0.00565         -0.00360   -15.3   -13.1
              C:PRI-BYN/RRK3                               3646
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                          -0.02791  0.07639   767.2   720.6
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                          -0.00494 -0.01725   152.8   163.3
2863   -609.1 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          84.0    80.0  0.00650          0.00593    81.8    78.2
              C:825                                        3771
                Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                          -0.00041 -0.09714  -545.7  -486.5
                Open 34014 ADAMS  5 161 60102 ADAMS  3 345 1                           0.00000  0.02245    -2.8   -16.5
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                          -0.00372 -0.14203  -525.7  -439.2
2864   -608.9 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         237.8   217.0  0.03419          0.03409   236.6   215.8
              C:60309 MRSHLND5 161 69543 ALMA   5 161 1    3011
                Open 60309 MRSHLND5 161 69543 ALMA   5 161 1                          -0.00761 -0.01291  -161.6  -153.8
2865   -608.7 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         237.8   217.0  0.03409          0.03409   236.6   215.8
              C:RRK-BCK/MAX7                               3671
                Open 60238 REDROCK7 115 60266 BATTCRK7 115 P2                          0.00010 -0.00337    45.3    47.4
                Open 60238 REDROCK7 115 60336 NSSJCT 7 115 1                           0.01592  0.00000    72.7    72.7
2866   -608.5 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         237.7   217.0  0.03409          0.03409   236.6   215.8
              C:60238 REDROCK7 115 60336 NSSJCT 7 115 1    1236
                Open 60238 REDROCK7 115 60336 NSSJCT 7 115 1                           0.01591  0.00000    72.7    72.7
2867   -608.5 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         237.7   217.0  0.03409          0.03409   236.6   215.8
              C:60336 NSSJCT 7 115 60337 NSSTAP 7 115 1    1361
                Open 60336 NSSJCT 7 115 60337 NSSTAP 7 115 1                           0.01591  0.00000    72.7    72.7
2868   -608.0 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         237.7   217.0  0.03409          0.03409   236.6   215.9
              C:HYL-BLL/DLK7                               3648
                Open 60193 BLUE LK7 115 60215 HYLNDLK7 115 1                          -0.00004 -0.00067   172.8   173.2
                Open 60215 HYLNDLK7 115 60261 DEANLAK7 115 1                           0.01655  0.00000    69.2    69.2
2869   -607.9 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         237.9   217.0  0.03440          0.03409   236.6   215.9
              C:66561 DENISON5 161 66567 DENISON4 230 1    2513
                Open 66561 DENISON5 161 66567 DENISON4 230 1                          -0.00951 -0.03279  -139.3  -119.4
2870   -607.3 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -187.7  -167.0 -0.03411         -0.03350  -177.1  -156.7
              C:050    1                                   3715
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          -0.01752  0.06362   901.3   862.7
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.00642 -0.06704  -692.1  -651.4
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          -0.00000 -0.00175    77.5    78.5
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                          -0.01775 -0.00300     0.0     1.8
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                          -0.01668 -0.00148   -42.6   -41.7
2871   -606.4 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         237.9   217.0  0.03440          0.03409   236.6   215.9
              C:34047 ANTA TP5 161 66561 DENISON5 161 1     109
                Open 34047 ANTA TP5 161 66561 DENISON5 161 1                          -0.00951 -0.03279  -133.8  -114.0
2872   -605.9 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         237.7   217.0  0.03409          0.03409   236.6   215.9
              C:34385 MC NWT 869.0 34386 MC NW  869.0 1     540
                Open 34385 MC NWT 869.0 34386 MC NW  869.0 1                           0.14269  0.00000     7.5     7.5
2873   -605.4 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -236.4  -173.0 -0.10469         -0.08696  -215.1  -162.5
              C:63713 OSGOOD 5 161 66563 SPENCER5 161 1    3461
                Open 63713 OSGOOD 5 161 66563 SPENCER5 161 1                           0.12369 -0.14331  -172.0   -85.2
2874   -605.2 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         237.9   217.0  0.03455          0.03409   236.6   216.0
              C:34054 GR JCT 5 161 34058 PERRY  5 161 1     120
                Open 34054 GR JCT 5 161 34058 PERRY  5 161 1                           0.01255  0.03623   105.0    83.1
2875   -605.0 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         237.6   217.0  0.03409          0.03409   236.6   216.0
              C:60122 LAWRENC7 115 60834 LAWRENC869.0 1     992
                Open 60122 LAWRENC7 115 60834 LAWRENC869.0 1                           0.01652  0.00000    62.7    62.7
2876   -604.6 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         237.6   217.0  0.03414          0.03409   236.6   216.0
              C:34384 MCARMOR869.0 34396 EMERY N869.0 1     539
                Open 34384 MCARMOR869.0 34396 EMERY N869.0 1                          -0.02418 -0.00199   -43.6   -42.4
2877   -604.4 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         237.6   217.0  0.03411          0.03409   236.6   216.0
              C:WLR-ASK/PNL7                               3690
                Open 60187 AS KING7 115 60325 WILOWRV7 115 1                           0.00240  0.00755   169.3   164.7
                Open 60313 PINE LK7 115 60325 WILOWRV7 115 1                           0.01312  0.00000    47.3    47.3
2878   -603.0 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         237.7   217.0  0.03436          0.03409   236.6   216.0
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              C:34179 JASPER 5 161 64189 NEANKNY5 161 1    2816
                Open 34179 JASPER 5 161 64189 NEANKNY5 161 1                          -0.01295 -0.02084   -87.3   -74.7
2879   -602.2 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         237.7   217.0  0.03442          0.03409   236.6   216.1
              C:61930 WINDSOR5 161 69531 POSTVIL5 161 1    3374
                Open 61930 WINDSOR5 161 69531 POSTVIL5 161 1                          -0.04334 -0.00767   -26.3   -21.7
2880   -601.6 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -227.0  -173.0 -0.08979         -0.08696  -215.1  -162.8
              C:825                                        3771
                Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                           0.00771 -0.09714  -545.7  -487.2
                Open 34014 ADAMS  5 161 60102 ADAMS  3 345 1                           0.00000  0.02245    -2.8   -16.4
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                           0.01467 -0.14203  -525.7  -440.3
2881   -601.1 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         237.6   217.0  0.03426          0.03409   236.6   216.1
              C:34415 CRESCO 869.0 34416 IPWCRST869.0 1     566
                Open 34415 CRESCO 869.0 34416 IPWCRST869.0 1                           0.03978  0.00424    25.2    22.7
2882   -601.0 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         237.6   217.0  0.03426          0.03409   236.6   216.1
              C:34416 IPWCRST869.0 34428 MADISNT869.0 1     567
                Open 34416 IPWCRST869.0 34428 MADISNT869.0 1                           0.03978  0.00424    25.2    22.6
2883   -600.9 L:34014 ADAMS  5 161 69526 BVR CRK5 161 1         250.8   224.0  0.04466          0.02271   169.6   155.9
              C:34018 HAZLTON3 345 60102 ADAMS  3 345 1      56
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                          -0.15457 -0.14203  -525.7  -440.4
2884   -600.7 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          14.2    13.7  0.00087          0.00089    11.3    10.7
              C:62134 ELKR14S869.0 63043 ELK RIV4 230 1    1779
                Open 62134 ELKR14S869.0 63043 ELK RIV4 230 1                          -0.03174  0.00086   -92.5   -93.0
2885   -599.2 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         237.7   217.0  0.03454          0.03409   236.6   216.2
              C:34052 AMES   7 115 34076 BNE JCT7 115 1     117
                Open 34052 AMES   7 115 34076 BNE JCT7 115 1                          -0.02962 -0.01508   -37.4   -28.3
2886   -597.9 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          83.8    80.0  0.00633          0.00593    81.8    78.2
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                          -0.00285 -0.13973  -702.5  -619.0
2887   -596.2 L:34013 WNBAGOS5 161 34258 WBGOJ S869.0 1          32.1    30.0  0.00356          0.00274    26.1    24.4
              C:34262 BRCLYNT869.0 69042 T BRC   69.0 1     425
                Open 34262 BRCLYNT869.0 69042 T BRC   69.0 1                          -0.29237 -0.00281   -20.7   -19.0
2888   -595.8 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          83.5    80.0  0.00593          0.00593    81.8    78.2
              C:34606 GRNL CT869.0 34607 GRNCTTP869.0 1     709
                Open 34606 GRNL CT869.0 34607 GRNCTTP869.0 1                          -0.03575  0.00000   -49.0   -49.0
2889   -595.7 L:34013 WNBAGOS5 161 34258 WBGOJ S869.0 1          32.1    30.0  0.00351          0.00274    26.1    24.4
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                           0.00682  0.11317   881.7   814.3
2890   -594.6 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          83.9    80.0  0.00649          0.00593    81.8    78.3
              C:34018 HAZLTON3 345 60102 ADAMS  3 345 1      56
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                          -0.00395 -0.14203  -525.7  -441.3
2891   -593.5 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -14.0   -12.0 -0.00331         -0.00453   -17.8   -15.1
              C:34644 ELLSTNR869.0 34646 BEACNRC869.0 1     744
                Open 34644 ELLSTNR869.0 34646 BEACNRC869.0 1                          -0.35416 -0.00345   -10.8    -8.7
2892   -593.4 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -187.7  -167.0 -0.03487         -0.03350  -177.1  -157.2
              C:61948 BYRON  5 161 61964 OWATNNA5 161 1    1696
                Open 61948 BYRON  5 161 61964 OWATNNA5 161 1                           0.06742 -0.02028  -157.4  -145.4
2893   -592.2 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -61.0   -58.0 -0.00500         -0.00273   -59.9   -58.3
              C:34063 GRNFLD 869.0 34601 GRN MUN 69.0 1     139
                Open 34063 GRNFLD 869.0 34601 GRN MUN 69.0 1                          -0.57650  0.00393     1.8    -0.6
2894   -592.0 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -61.0   -58.0 -0.00500         -0.00273   -59.9   -58.3
              C:34583 ORIENT R69.0 34601 GRN MUN 69.0 1     683
                Open 34583 ORIENT R69.0 34601 GRN MUN 69.0 1                           0.57650 -0.00393    -1.8     0.6
2895   -592.0 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -61.0   -58.0 -0.00500         -0.00273   -59.9   -58.3
              C:34583 ORIENT R69.0 34588 SLAKEN 869.0 1     682
                Open 34583 ORIENT R69.0 34588 SLAKEN 869.0 1                          -0.57650  0.00393     1.8    -0.6
2897   -586.3 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          69.8    60.0  0.01675          0.01629    65.0    55.5
              C:34091 ARNOLD 5 161 34111 FAIRFAX5 161 1     179
                Open 34091 ARNOLD 5 161 34111 FAIRFAX5 161 1                           0.02975  0.01574   162.1   152.9
2898   -584.8 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -224.7  -173.0 -0.08839         -0.08696  -215.1  -164.2
              C:61950 BYRON  3 345 63032 PL VLLY3 345 1    3375
                Open 61950 BYRON  3 345 63032 PL VLLY3 345 1                          -0.01690  0.08464   567.6   518.1
2899   -583.5 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          83.1    80.0  0.00538          0.00593    81.8    78.3
              C:34202 LUCAS  869.0 64100 KNXVL  869.0 1    2823
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                Open 34202 LUCAS  869.0 64100 KNXVL  869.0 1                          0.19404 -0.00284     7.0     8.7
2900   -583.0 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          93.9    90.0  0.00671          0.00647    89.3    85.5
              C:34211 NEWTON 5 161 34561 NEWTON Y 161 1     354
                Open 34211 NEWTON 5 161 34561 NEWTON Y 161 1                          0.09160  0.00259    50.9    49.4
2901   -582.5 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          93.9    90.0  0.00671          0.00647    89.3    85.5
              C:34212 NEWTON 869.0 34561 NEWTON Y 161 1     355
                Open 34212 NEWTON 869.0 34561 NEWTON Y 161 1                         -0.09160 -0.00259   -50.8   -49.3
2902   -581.6 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -225.2  -173.0 -0.08968         -0.08696  -215.1  -164.5
              C:34018 HAZLTON3 345 60102 ADAMS  3 345 1      56
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                          0.01913 -0.14203  -525.7  -443.1
2903   -579.5 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -326.5  -318.0 -0.01459         -0.01397  -311.5  -303.4
              C:63329 WAHPETN4 230 63331 FERGSFL4 230 1    2192
                Open 63329 WAHPETN4 230 63331 FERGSFL4 230 1                         -0.05638  0.01091   264.8   258.5
2904   -579.1 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -13.9   -12.0 -0.00331         -0.00453   -17.8   -15.2
              C:34176 MT AYR 869.0 34646 BEACNRC869.0 1     278
                Open 34176 MT AYR 869.0 34646 BEACNRC869.0 1                          0.35416  0.00345    10.9     8.9
2905   -578.2 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          70.0    60.0  0.01728          0.01629    65.0    55.6
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                         -0.00710 -0.13973  -702.5  -621.8
2906   -576.1 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -223.5  -173.0 -0.08762         -0.08696  -215.1  -165.0
              C:ASK-RRK/ECL3                               3642
                Open 60186 AS KING3 345 60236 REDROCK3 345 1                         -0.00066 -0.01969   140.3   151.6
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                         -0.00540  0.06362   901.3   864.7
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          0.00495 -0.06704  -692.1  -653.5
2907   -574.6 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         236.6   217.0  0.03409
                Base Case
2908   -573.7 L:34075 ELDORA 7 115 34077 IA FALS7 115 1         -67.7   -60.0 -0.01350         -0.01241   -60.2   -53.1
              C:34016 EMERY  5 161 64252 FLOYD  5 161 1    2719
                Open 34016 EMERY  5 161 64252 FLOYD  5 161 1                         -0.03181  0.03409   236.6   217.0
2909   -573.4 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -223.2  -173.0 -0.08763         -0.08696  -215.1  -165.2
              C:050    1                                   3715
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                         -0.00516  0.06362   901.3   864.8
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          0.00502 -0.06704  -692.1  -653.7
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          0.00000 -0.00175    77.5    78.5
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                          0.00125 -0.00300     0.0     1.7
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                          0.00060 -0.00148   -42.6   -41.8
2910   -572.7 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -223.2  -173.0 -0.08762         -0.08696  -215.1  -165.3
              C:050    2                                   3716
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                         -0.00518  0.06362   901.3   864.9
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          0.00494 -0.06704  -692.1  -653.7
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          0.00000 -0.00175    77.5    78.5
2911   -570.8 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -186.9  -167.0 -0.03487         -0.03350  -177.1  -158.0
              C:BYN-WOW/KAN5                               3653
                Open 61948 BYRON  5 161 61964 OWATNNA5 161 1                          0.06742 -0.02028  -157.4  -145.9
                Open 60799 KASSON 869.0 61161 BYRON  869.0 1                          0.02952  0.00000    26.8    26.8
2912   -570.2 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -49.6   -48.0 -0.00279         -0.00216   -44.9   -43.7
              C:BLL-PRI/IVH3                               3638
                Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                          0.00653 -0.03964  -143.5  -120.9
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.00786  0.04835   476.6   449.0
2913   -570.0 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         235.6   217.0  0.03257          0.03409   236.6   217.2
              C:34020 HAZL S 5 161 64269 WASHBRN5 161 1    2726
                Open 34020 HAZL S 5 161 64269 WASHBRN5 161 1                          0.06969 -0.02178   -14.7    -2.3
2914   -569.9 L:60310 MONROCO5 161 60949 MONROCO869.0 1          71.5    70.0  0.00262          0.00246    66.3    64.9
              C:60307 JACKSON5 161 60966 JACKCO 869.0 1    1324
                Open 60307 JACKSON5 161 60966 JACKCO 869.0 1                          0.15779  0.00103    32.9    32.3
2915   -569.9 L:60310 MONROCO5 161 60949 MONROCO869.0 1          71.5    70.0  0.00262          0.00246    66.3    64.9
              C:60307 JACKSON5 161 60316 TREMVAL5 161 1    1323
                Open 60307 JACKSON5 161 60316 TREMVAL5 161 1                         -0.15779 -0.00103   -32.9   -32.3
2916   -568.2 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          83.5    80.0  0.00608          0.00593    81.8    78.4
              C:050    1                                   3715
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00079  0.06362   901.3   865.2
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.00134 -0.06704  -692.1  -654.0
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                         -0.00000 -0.00175    77.5    78.5
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                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                          -0.00079 -0.00300     0.0     1.7
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                          -0.00063 -0.00148   -42.6   -41.8
2917   -565.9 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -87.4   -77.0 -0.01845         -0.01539   -75.2   -66.5
              C:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1     145
                Open 34066 M-TOWN 7 115 34085 BLRSTWN7 115 1                          -0.18806  0.01629    65.0    55.8
2918   -565.7 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          83.4    80.0  0.00607          0.00593    81.8    78.4
              C:ASK-RRK/ECL3                                3642
                Open 60186 AS KING3 345 60236 REDROCK3 345 1                           0.00008 -0.01969   140.3   151.4
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.00084  0.06362   901.3   865.3
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.00128 -0.06704  -692.1  -654.2
2919   -565.3 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -87.4   -77.0 -0.01832         -0.01539   -75.2   -66.5
              C:34079 TRAER  5 161 34087 DYSART 5 161 1     163
                Open 34079 TRAER  5 161 34087 DYSART 5 161 1                          -0.11498  0.02549   105.6    91.2
2920   -559.6 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          83.4    80.0  0.00607          0.00593    81.8    78.5
              C:050    2                                    3716
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.00081  0.06362   901.3   865.7
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.00128 -0.06704  -692.1  -654.6
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          -0.00000 -0.00175    77.5    78.5
2921   -556.6 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -222.2  -173.0 -0.08844         -0.08696  -215.1  -166.7
              C:34009 WINBAGO5 161 61932 RUTLAND5 161 1      32
                Open 34009 WINBAGO5 161 61932 RUTLAND5 161 1                           0.02897 -0.05102  -245.9  -217.5
2922   -556.2 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -221.6  -173.0 -0.08742         -0.08696  -215.1  -166.7
              C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          -0.00724  0.06362   901.3   865.9
2923   -556.2 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -222.1  -173.0 -0.08820         -0.08696  -215.1  -166.7
              C:60102 ADAMS  3 345 63032 PL VLLY3 345 1    2933
                Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                           0.01275 -0.09714  -545.7  -491.6
2924   -555.9 L:62427 WILLMAR869.0 62429 PNNCKTP869.0 1         -24.8   -24.3 -0.00085         -0.00071   -13.8   -13.4
              C:500                                         3718
                Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                           0.01399 -0.01028  -216.5  -210.8
                Open 62427 WILLMAR869.0 63050 WILLMAR4 230 1                           0.20642  0.00004   -38.4   -38.5
2925   -553.4 L:34643 GRRIVER869.0 34644 ELLSTNR869.0 1         -14.2   -12.0 -0.00398         -0.00345   -10.5    -8.6
              C:34587 MURRAY 869.0 34589 HOPEVIL869.0 1     688
                Open 34587 MURRAY 869.0 34589 HOPEVIL869.0 1                          -0.49035  0.00108     7.5     6.9
2926   -553.1 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -221.3  -173.0 -0.08733         -0.08696  -215.1  -167.0
              C:66506 FTTHOMP3 345 66571 GR ISLD3 345 1    3552
                Open 66506 FTTHOMP3 345 66571 GR ISLD3 345 1                          -0.01458  0.02536   425.1   411.1
2927   -552.1 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          83.3    80.0  0.00605          0.00593    81.8    78.5
              C:34212 NEWTON 869.0 64156 COLFAX 869.0 1    2827
                Open 34212 NEWTON 869.0 64156 COLFAX 869.0 1                           0.28394  0.00043     5.5     5.3
2928   -548.7 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          70.5    60.0  0.01918          0.01629    65.0    56.1
              C:34083 BL.PLN.7 115 34095 STON PT7 115 1     172
                Open 34083 BL.PLN.7 115 34095 STON PT7 115 1                           0.18807  0.01539    29.4    20.9
2929   -548.4 L:34643 GRRIVER869.0 34644 ELLSTNR869.0 1         -14.2   -12.0 -0.00398         -0.00345   -10.5    -8.6
              C:34589 HOPEVIL869.0 34590 GRDRVRE869.0 1     694
                Open 34589 HOPEVIL869.0 34590 GRDRVRE869.0 1                          -0.49035  0.00108     7.4     6.8
2930   -548.1 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -186.3  -167.0 -0.03529         -0.03350  -177.1  -158.7
              C:34010 HAYWARD5 161 34015 LIME CK5 161 1      35
                Open 34010 HAYWARD5 161 34015 LIME CK5 161 1                           0.17349 -0.01032   -53.4   -47.7
2931   -547.8 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -185.2  -167.0 -0.03328         -0.03350  -177.1  -158.7
              C:60131 SPLTRTB3 345 66564 SIOUXCY3 345 1    1009
                Open 60131 SPLTRTB3 345 66564 SIOUXCY3 345 1                          -0.01501 -0.01463   543.3   551.3
2932   -547.8 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -185.2  -167.0 -0.03328         -0.03350  -177.1  -158.7
              C:60126 SPLT RK3 345 60131 SPLTRTB3 345 1    1002
                Open 60126 SPLT RK3 345 60131 SPLTRTB3 345 1                          -0.01501 -0.01463   543.3   551.3
2933   -544.8 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -222.0  -173.0 -0.08988         -0.08696  -215.1  -167.7
              C:63875 RAUN   3 345 66564 SIOUXCY3 345 1    3465
                Open 63875 RAUN   3 345 66564 SIOUXCY3 345 1                           0.02616 -0.11165  -262.5  -201.7
2934   -543.4 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -220.5  -173.0 -0.08749         -0.08696  -215.1  -167.8
              C:050    3                                    3717
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.00781 -0.06704  -692.1  -655.7
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                           0.00168 -0.00300     0.0     1.6
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                           0.00090 -0.00148   -42.6   -41.8
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2935   -543.3 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         235.5   217.0  0.03398          0.03409   236.6   218.1
              C:34091 ARNOLD 5 161 34111 FAIRFAX5 161 1     179
                Open 34091 ARNOLD 5 161 34111 FAIRFAX5 161 1                          -0.00694  0.01574   162.1   153.5
2936   -543.3 L:34643 GRRIVER869.0 34644 ELLSTNR869.0 1         -14.2   -12.0 -0.00398         -0.00345   -10.5    -8.7
              C:34590 GRDRVRE869.0 34643 GRRIVER869.0 1     696
                Open 34590 GRDRVRE869.0 34643 GRRIVER869.0 1                          -0.49035  0.00108     7.4     6.8
2937   -543.2 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         235.6   217.0  0.03420          0.03409   236.6   218.1
              C:34380 LMCK E 869.0 34390 MCNWCSS869.0 1     535
                Open 34380 LMCK E 869.0 34390 MCNWCSS869.0 1                          -0.03433 -0.00326    29.4    31.2
2938   -542.2 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -220.4  -173.0 -0.08748         -0.08696  -215.1  -167.9
              C:39244 ARP 345  345 60304 EAU CL 3 345 1    2888
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.00771 -0.06704  -692.1  -655.8
2939   -541.9 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         235.5   217.0  0.03413          0.03409   236.6   218.1
              C:34021 LANSINGW 161 69523 GENOA  5 161 1    2728
                Open 34021 LANSINGW 161 69523 GENOA  5 161 1                          -0.01443 -0.00286    75.8    77.3
2940   -541.2 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -326.0  -318.0 -0.01486         -0.01397  -311.5  -304.0
              C:61611 WINGRIV4 230 63052 INMAN  4 230 1    3357
                Open 61611 WINGRIV4 230 63052 INMAN  4 230 1                           0.07402 -0.01196  -196.1  -189.7
2941   -540.9 L:60716 STJ EAS869.0 60709 STJMSMU869.0 1         -40.7   -36.0 -0.00870         -0.00284   -11.3    -9.7
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                           0.04191 -0.13973  -702.5  -627.0
2942   -540.9 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         235.4   217.0  0.03397          0.03409   236.6   218.2
              C:34053 MT VERN5 161 34109 BERTRAM5 161 1     118
                Open 34053 MT VERN5 161 34109 BERTRAM5 161 1                           0.00922 -0.01284  -131.7  -124.8
2943   -540.8 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         235.4   217.0  0.03409          0.03409   236.6   218.2
              C:66507 FTTHOMP4 230 66541 BIGBND24 230 1    2462
                Open 66507 FTTHOMP4 230 66541 BIGBND24 230 1                           0.01434  0.00000   -80.5   -80.5
2944   -540.7 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         235.4   217.0  0.03409          0.03409   236.6   218.2
              C:66541 BIGBND24 230 66545 BGBND78G13.8 1    3569
                Open 66541 BIGBND24 230 66545 BGBND78G13.8 1                           0.01434  0.00000   -80.6   -80.6
2945   -539.2 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -217.4  -200.0 -0.03224         -0.03224  -197.2  -179.8
              C:60006 KING 31G20.0 60186 AS KING3 345 1    2896
                Open 60006 KING 31G20.0 60186 AS KING3 345 1                           0.04370  0.00000  -461.4  -461.4
2946   -538.7 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         235.4   217.0  0.03409          0.03409   236.6   218.2
              C:66510 FTRANDL7 115 66546 FTRDL12G13.8 1    3556
                Open 66510 FTRANDL7 115 66546 FTRDL12G13.8 1                           0.01432  0.00000   -85.5   -85.5
2947   -538.5 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -220.4  -173.0 -0.08806         -0.08696  -215.1  -168.3
              C:34008 FOX LK 5 161 61932 RUTLAND5 161 1      28
                Open 34008 FOX LK 5 161 61932 RUTLAND5 161 1                          -0.02281  0.04814   233.2   207.3
2948   -538.5 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -220.5  -173.0 -0.08823         -0.08696  -215.1  -168.3
              C:66561 DENISON5 161 66567 DENISON4 230 1    2513
                Open 66561 DENISON5 161 66567 DENISON4 230 1                           0.03885 -0.03279  -139.3  -121.7
2949   -538.3 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          83.3    80.0  0.00613          0.00593    81.8    78.6
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                           0.00172  0.11317   881.7   820.8
2950   -537.5 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         235.3   217.0  0.03409          0.03409   236.6   218.3
              C:66509 FTRANDL4 230 66549 FTRDL78G13.8 1    3555
                Open 66509 FTRANDL4 230 66549 FTRDL78G13.8 1                           0.01444  0.00000   -87.6   -87.6
2951   -536.1 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -220.3  -173.0 -0.08823         -0.08696  -215.1  -168.5
              C:34047 ANTA TP5 161 66561 DENISON5 161 1     109
                Open 34047 ANTA TP5 161 66561 DENISON5 161 1                           0.03885 -0.03279  -133.8  -116.3
2954   -535.0 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          68.9    60.0  0.01661          0.01629    65.0    56.3
              C:ASK-RRK/ECL3                               3642
                Open 60186 AS KING3 345 60236 REDROCK3 345 1                           0.00020 -0.01969   140.3   150.8
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.00213  0.06362   901.3   867.3
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.00280 -0.06704  -692.1  -656.2
2955   -534.1 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          69.0    60.0  0.01680          0.01629    65.0    56.3
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                           0.00450  0.11317   881.7   821.3
2956   -534.1 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         235.2   217.0  0.03409          0.03409   236.6   218.4
              C:66441 GARRISN4 230 66457 GARISN1G13.8 1    3547
                Open 66441 GARRISN4 230 66457 GARISN1G13.8 1                           0.01490  0.00000   -92.6   -92.6
2957   -534.1 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         235.2   217.0  0.03409          0.03409   236.6   218.4
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              C:66441 GARRISN4 230 66459 GARISN3G13.8 1    3549
                Open 66441 GARRISN4 230 66459 GARISN3G13.8 1                          0.01490  0.00000   -92.6   -92.6
2958   -534.1 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         235.2   217.0  0.03409          0.03409   236.6   218.4
              C:66441 GARRISN4 230 66458 GARISN2G13.8 1    3548
                Open 66441 GARRISN4 230 66458 GARISN2G13.8 1                          0.01490  0.00000   -92.6   -92.6
2959   -534.0 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         235.2   217.0  0.03409          0.03409   236.6   218.4
              C:66442 GARRISN7 115 66461 GARISN5G13.8 1    3551
                Open 66442 GARRISN7 115 66461 GARISN5G13.8 1                          0.01490  0.00000   -92.8   -92.8
2960   -534.0 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         235.2   217.0  0.03409          0.03409   236.6   218.4
              C:66442 GARRISN7 115 66460 GARISN4G13.8 1    3550
                Open 66442 GARRISN7 115 66460 GARISN4G13.8 1                          0.01490  0.00000   -92.9   -92.9
2961   -533.0 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         235.1   217.0  0.03396          0.03409   236.6   218.4
              C:34013 WNBAGOS5 161 69529 WINNCO 5 161 1    2715
                Open 34013 WNBAGOS5 161 69529 WINNCO 5 161 1                         -0.02998  0.00450    49.7    47.3
2962   -532.1 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          68.8    60.0  0.01661          0.01629    65.0    56.3
              C:050    1                                   3715
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00205  0.06362   901.3   867.5
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.00286 -0.06704  -692.1  -656.4
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                         -0.00000 -0.00175    77.5    78.4
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                         -0.00098 -0.00300     0.0     1.6
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                         -0.00031 -0.00148   -42.6   -41.8
2963   -531.0 L:34075 ELDORA 7 115 34077 IA FALS7 115 1         -66.6   -60.0 -0.01241         -0.01241   -60.2   -53.6
              C:34066 M-TOWN 7 115 34088 M-TOWN3G13.8 1    2761
                Open 34066 M-TOWN 7 115 34088 M-TOWN3G13.8 1                          0.07868  0.00000   -81.0   -81.0
2964   -530.5 L:34138 DUNDEE 869.0 34521 GRELYTP869.0 1          26.2    24.0  0.00415          0.00309    22.1    20.4
              C:34492 MANCIND869.0 34493 DELEWAR869.0 1     654
                Open 34492 MANCIND869.0 34493 DELEWAR869.0 1                          0.55323  0.00192     7.5     6.5
2965   -530.2 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -219.3  -173.0 -0.08740         -0.08696  -215.1  -169.0
              C:34006 LAKEFLD3 345 63875 RAUN   3 345 1    2708
                Open 34006 LAKEFLD3 345 63875 RAUN   3 345 1                         -0.01423  0.03120   298.4   281.8
2966   -530.1 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         235.0   217.0  0.03403          0.03409   236.6   218.5
              C:61906 MAPLE LF 161 61948 BYRON  5 161 1    3372
                Open 61906 MAPLE LF 161 61948 BYRON  5 161 1                          0.00501 -0.01203  -309.4  -303.0
2967   -529.7 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          68.8    60.0  0.01661          0.01629    65.0    56.4
              C:050    2                                   3716
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00206  0.06362   901.3   867.6
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.00280 -0.06704  -692.1  -656.6
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                         -0.00000 -0.00175    77.5    78.4
2968   -529.5 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -325.8  -318.0 -0.01468         -0.01397  -311.5  -304.1
              C:63051 HENNING4 230 63331 FERGSFL4 230 1    2053
                Open 63051 HENNING4 230 63331 FERGSFL4 230 1                          0.06482 -0.01089  -219.8  -214.0
2969   -529.5 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         235.2   217.0  0.03430          0.03409   236.6   218.5
              C:770                                       3761
                Open 60109 WILMART5 161 60110 WILMART7 115 1                          0.02461  0.00863   -61.8   -66.4
                Open 60109 WILMART5 161 60120 BLUEETA5 161 1     NA
                Open 34009 WINBAGO5 161 60120 BLUEETA5 161 1                          0.04186  0.00000     2.3     2.3
2970   -529.2 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -217.9  -200.0 -0.03382         -0.03224  -197.2  -180.2
              C:34016 EMERY  5 161 63774 SHEFFLD5 161 1    2720
                Open 34016 EMERY  5 161 63774 SHEFFLD5 161 1                         -0.31478  0.00503    65.7    63.0
2971   -529.1 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         235.0   217.0  0.03409          0.03409   236.6   218.6
              C:60193 BLUE LK7 115 61476 BLL TR5Y 115 5    1130
                Open 60193 BLUE LK7 115 61476 BLL TR5Y 115 5                          0.01652  0.00000   -94.0   -94.0
2972   -528.7 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -219.8  -173.0 -0.08859         -0.08696  -215.1  -169.1
              C:34054 GR JCT 5 161 34058 PERRY  5 161 1     120
                Open 34054 GR JCT 5 161 34058 PERRY  5 161 1                         -0.04509  0.03623   105.0    85.9
2973   -528.5 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -219.4  -173.0 -0.08777         -0.08696  -215.1  -169.1
              C:34010 HAYWARD5 161 34013 WNBAGOS5 161 1      33
                Open 34010 HAYWARD5 161 34013 WNBAGOS5 161 1                          0.02424 -0.03350  -177.1  -159.4
2974   -528.3 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         235.1   217.0  0.03430          0.03409   236.6   218.6
              C:34009 WINBAGO5 161 60120 BLUEETA5 161 1      31
                Open 34009 WINBAGO5 161 60120 BLUEETA5 161 1                          0.02461  0.00863   -59.5   -64.1
2975   -528.1 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         235.0   217.0  0.03409          0.03409   236.6   218.6
              C:60193 BLUE LK7 115 61477 BLL TR6Y 115 6    1131
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                Open 60193 BLUE LK7 115 61477 BLL TR6Y 115 6                          0.01652  0.00000   -96.0   -96.0
2976   -526.8 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         235.0   217.0  0.03409          0.03409   236.6   218.6
               C: 6001 YANKEE 7 115  6003 G176    34.5 1    3622
                Open  6001 YANKEE 7 115  6003 G176    34.5 1                          0.01629  0.00000   -99.9   -99.9
2977   -526.7 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         235.1   217.0  0.03430          0.03409   236.6   218.6
               C:60109 WILMART5 161 60120 BLUEETA5 161 1     961
                Open 60109 WILMART5 161 60120 BLUEETA5 161 1                         -0.02461 -0.00863    61.8    66.3
2978   -526.7 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         235.1   217.0  0.03430          0.03409   236.6   218.6
               C:60109 WILMART5 161 60110 WILMART7 115 1     960
                Open 60109 WILMART5 161 60110 WILMART7 115 1                          0.02461  0.00863   -61.8   -66.4
2979   -525.1 L:34016 EMERY  5 161 64252 FLOYD  5 161 1         234.9   217.0  0.03409          0.03409   236.6   218.7
               C:66540 BIGBND14 230 66542 BGBND12G13.8 1    3566
                Open 66540 BIGBND14 230 66542 BGBND12G13.8 1                          0.01434  0.00000  -117.6  -117.6
2980   -524.5*L:34016 EMERY  5 161 64252 FLOYD  5 161 1         234.9   217.0  0.03409          0.03409   236.6   218.7
               C:34105 HIAWATA5 161 34112 HIAWATA934.5 1    2785
                Open 34105 HIAWATA5 161 34112 HIAWATA934.5 1                         -0.01998  0.00000    85.6    85.6
2981   -523.3 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -86.1   -77.0 -0.01744         -0.01539   -75.2   -67.2
               C:34068 M-TOWN 5 161 34079 TRAER  5 161 1     151
                Open 34068 M-TOWN 5 161 34079 TRAER  5 161 1                         -0.11341  0.01809    96.2    86.7
2984   -522.5 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -219.1  -173.0 -0.08829         -0.08696  -215.1  -169.7
               C:LAKF-FOX DBL                                3781
                Open 34007 LAKEFLD5 161 34008 FOX LK 5 161 1                         -0.02472  0.02660    78.8    64.9
                Open 34007 LAKEFLD5 161 34008 FOX LK 5 161 2                         -0.02472  0.02728    84.2    69.9
2985   -522.0 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          83.2    80.0  0.00607          0.00593    81.8    78.7
               C:PRI-BYN/RRK3                                3646
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                          0.00180  0.07639   767.2   727.3
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                          0.00004 -0.01725   152.8   161.8
2986   -521.9 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -218.4  -173.0 -0.08696         -0.08696  -215.1  -169.7
               C:34016 EMERY  5 161 34912 EMERYST118.0 1    2723
                Open 34016 EMERY  5 161 34912 EMERYST118.0 1                          0.01291  0.00000  -254.2  -254.2
2987   -521.6 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          68.8    60.0  0.01684          0.01629    65.0    56.5
               C:34020 HAZL S 5 161 34135 DUNDEE 5 161 1      60
                Open 34020 HAZL S 5 161 34135 DUNDEE 5 161 1                          0.01819  0.03042   207.8   192.0
2988   -521.3 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -218.8  -173.0 -0.08776         -0.08696  -215.1  -169.8
               C:64994 TWIN CH4 230 66565 SIOUXCY4 230 1    3491
                Open 64994 TWIN CH4 230 66565 SIOUXCY4 230 1                          0.01884 -0.04240  -193.9  -171.8
2989   -520.9 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -184.9  -167.0 -0.03445         -0.03350  -177.1  -159.6
               C:60107 W FARIB7 115 60265 LOON TP7 115 C1    952
                Open 60107 W FARIB7 115 60265 LOON TP7 115 C1                         0.04714 -0.02017  -166.9  -156.4
2992   -519.8 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -184.4  -167.0 -0.03350         -0.03350  -177.1  -159.7
               C:34016 EMERY  5 161 34911 EMERYGT218.0 1    2722
                Open 34016 EMERY  5 161 34911 EMERYGT218.0 1                          0.04416  0.00000  -166.2  -166.2
2993   -519.8 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -184.4  -167.0 -0.03350         -0.03350  -177.1  -159.7
               C:34016 EMERY  5 161 34910 EMERYGT118.0 1    2721
                Open 34016 EMERY  5 161 34910 EMERYGT118.0 1                          0.04416  0.00000  -166.2  -166.2
2994   -519.8 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -184.8  -167.0 -0.03431         -0.03350  -177.1  -159.7
               C:34258 WBGOJ S869.0 34259 WBGO  T869.0 1     418
                Open 34258 WBGOJ S869.0 34259 WBGO  T869.0 1                         -0.29754  0.00274    26.1    24.7
2995   -519.8 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -184.8  -167.0 -0.03431         -0.03350  -177.1  -159.7
               C:34013 WNBAGOS5 161 34258 WBGOJ S869.0 1      41
                Open 34013 WNBAGOS5 161 34258 WBGOJ S869.0 1                         -0.29754  0.00274    26.1    24.7
2996   -519.6 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -219.1  -200.0 -0.03676         -0.03224  -197.2  -180.5
               C:34008 FOX LK 5 161 61932 RUTLAND5 161 1      28
                Open 34008 FOX LK 5 161 61932 RUTLAND5 161 1                         -0.09382  0.04814   233.2   208.2
2997   -519.5 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          83.2    80.0  0.00607          0.00593    81.8    78.7
               C:60105 PR ISLD3 345 61950 BYRON  3 345 1     951
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                          0.00179  0.07639   767.2   727.5
2998   -519.1 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -184.8  -167.0 -0.03431         -0.03350  -177.1  -159.7
               C:34259 WBGO  T869.0 62329 WNBGOTP869.0 1     419
                Open 34259 WBGO  T869.0 62329 WNBGOTP869.0 1                         -0.29754  0.00274    26.0    24.6
2999   -519.1 L:34075 ELDORA 7 115 34077 IA FALS7 115 1         -67.5   -60.0 -0.01437         -0.01241   -60.2   -53.8
               C:34018 HAZLTON3 345 60102 ADAMS  3 345 1      56
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                          0.01377 -0.14203  -525.7  -452.0
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3000   -518.8 L:60133 SHEYNNE4 230 63336 AUDUBON4 230 1         324.0   318.0  0.01150          0.00860   253.4   249.0
              C:63329 WAHPETN4 230 63331 FERGSFL4 230 1    2192
                Open 63329 WAHPETN4 230 63331 FERGSFL4 230 1                          0.26640  0.01091   264.8   259.1
3001   -517.4 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -218.0  -173.0 -0.08696         -0.08696  -215.1  -170.1
              C:34146 OTTUMW1G24.0 34189 OTTUMWA5 161 1    2809
                Open 34146 OTTUMW1G24.0 34189 OTTUMWA5 161 1                          0.00621  0.00000  -466.3  -466.3
3002   -515.1 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -217.9  -173.0 -0.08718         -0.08696  -215.1  -170.3
              C:34016 EMERY  5 161 63774 SHEFFLD5 161 1    2720
                Open 34016 EMERY  5 161 63774 SHEFFLD5 161 1                         -0.04270  0.00503    65.7    63.1
3003   -514.6 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          68.6    60.0  0.01664          0.01629    65.0    56.6
              C:PRI-BYN/RRK3                               3646
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                          0.00462  0.07639   767.2   727.9
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                          0.00010 -0.01725   152.8   161.6
3006   -513.8 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -184.6  -167.0 -0.03418         -0.03350  -177.1  -159.9
              C:60107 W FARIB7 115 61952 S FARIB5 161 1     955
                Open 60107 W FARIB7 115 61952 S FARIB5 161 1                         -0.04689  0.01457   159.6   152.2
3007   -513.3 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -217.9  -173.0 -0.08738         -0.08696  -215.1  -170.5
              C:BLL-PRI/IVH3                               3638
                Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                          0.00548 -0.03964  -143.5  -123.2
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.00412  0.04835   476.6   451.8
3008   -512.3 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          68.5    60.0  0.01664          0.01629    65.0    56.7
              C:60105 PR ISLD3 345 61950 BYRON  3 345 1     951
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                          0.00459  0.07639   767.2   728.1
3010   -510.5 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -217.8  -200.0 -0.03488         -0.03224  -197.2  -180.8
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                         -0.02335  0.11317   881.7   824.0
3011   -510.3 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -184.4  -167.0 -0.03418         -0.03350  -177.1  -160.0
              C:61952 S FARIB5 161 61964 OWATNNA5 161 1    1697
                Open 61952 S FARIB5 161 61964 OWATNNA5 161 1                         -0.04689  0.01457   157.1   149.7
3012   -510.0 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -217.4  -173.0 -0.08696         -0.08696  -215.1  -170.7
              C:34090 ARNOLD1G22.0 34091 ARNOLD 5 161 1    2774
                Open 34090 ARNOLD1G22.0 34091 ARNOLD 5 161 1                          0.00610  0.00000  -369.0  -369.0
3015   -508.8 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -218.3  -173.0 -0.08906         -0.08696  -215.1  -170.9
              C:63893 LT SX  869.0 66593 J4IDAGR869.0 1    3471
                Open 63893 LT SX  869.0 66593 J4IDAGR869.0 1                         -0.13787  0.01523    23.3    15.6
3016   -508.8 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -217.2  -173.0 -0.08696         -0.08696  -215.1  -170.9
              C:34016 EMERY  5 161 34911 EMERYGT218.0 1    2722
                Open 34016 EMERY  5 161 34911 EMERYGT218.0 1                          0.01291  0.00000  -166.2  -166.2
3017   -508.8 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -217.2  -173.0 -0.08696         -0.08696  -215.1  -170.9
              C:34016 EMERY  5 161 34910 EMERYGT118.0 1    2721
                Open 34016 EMERY  5 161 34910 EMERYGT118.0 1                          0.01291  0.00000  -166.2  -166.2
3018   -508.6 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -217.4  -173.0 -0.08727         -0.08696  -215.1  -170.9
              C:34054 GR JCT 5 161 34529 GRJCT5Y  161 1     122
                Open 34054 GR JCT 5 161 34529 GRJCT5Y  161 1                         -0.07682  0.00401    29.8    27.7
3019   -508.6 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -217.4  -173.0 -0.08727         -0.08696  -215.1  -170.9
              C:34073 GR JCT 7 115 34529 GRJCT5Y  161 1     157
                Open 34073 GR JCT 7 115 34529 GRJCT5Y  161 1                          0.07682 -0.00401   -29.8   -27.7
3020   -508.5 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -184.4  -167.0 -0.03431         -0.03350  -177.1  -160.0
              C:61938 WELLS   69.0 62332 CLARK  869.0 1    1694
                Open 61938 WELLS   69.0 62332 CLARK  869.0 1                         -0.29754  0.00274    24.8    23.4
3021   -508.5 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -217.4  -173.0 -0.08741         -0.08696  -215.1  -170.9
              C:700    1                                   3737
                Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                          0.00566 -0.03964  -143.5  -123.4
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.00259  0.04835   476.6   452.0
                Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                         -0.00189  0.05190   157.6   131.2
3022   -508.4 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -217.4  -173.0 -0.08727         -0.08696  -215.1  -170.9
              C:34059 BOONE  7 115 34073 GR JCT 7 115 1     132
                Open 34059 BOONE  7 115 34073 GR JCT 7 115 1                          0.07682 -0.00401   -29.5   -27.4
3023   -508.0 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -184.2  -167.0 -0.03378         -0.03350  -177.1  -160.1
              C:61906 MAPLE LF 161 61948 BYRON  5 161 1    3372
                Open 61906 MAPLE LF 161 61948 BYRON  5 161 1                          0.02289 -0.01203  -309.4  -303.3
3024   -507.7 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -14.0   -12.0 -0.00398         -0.00453   -17.8   -15.5
              C:34590 GRDRVRE869.0 34643 GRRIVER869.0 1     696
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                Open 34590 GRDRVRE869.0 34643 GRRIVER869.0 1                          0.50965  0.00108     7.4     6.8
3025   -507.4 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          69.9    60.0  0.01955          0.01629    65.0    56.7
              C:34089 VINTON 5 161 34091 ARNOLD 5 161 1     177
                Open 34089 VINTON 5 161 34091 ARNOLD 5 161 1                          0.06893  0.04736    71.4    47.3
3026   -507.2 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -217.2  -173.0 -0.08707         -0.08696  -215.1  -171.0
              C:795                                       3765
                Open 60150 MNVLTAP4 230 66550 GRANITF4 230 1                          0.00673 -0.01397  -311.5  -304.4
                Open 60148 MINVALY7 115 60149 MINVALT4 230 C1                        -0.00685  0.00290    18.2    16.7
                Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                         -0.01288  0.00000     0.0     0.0
                Open 60149 MINVALT4 230 60150 MNVLTAP4 230 1     NA
                Open 60742 PANTHER869.0 63054 PANTHER4 230 1                         -0.00402  0.00014   -40.1   -40.2
3028   -505.3 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -217.0  -173.0 -0.08706         -0.08696  -215.1  -171.2
              C:60150 MNVLTAP4 230 63054 PANTHER4 230 1    2952
                Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                         -0.00573  0.01687   329.7   321.2
3029   -504.9 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -84.8   -77.0 -0.01539         -0.01539   -75.2   -67.4
              C:34090 ARNOLD1G22.0 34091 ARNOLD 5 161 1    2774
                Open 34090 ARNOLD1G22.0 34091 ARNOLD 5 161 1                          0.02589  0.00000  -369.0  -369.0
3031   -503.4 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -216.8  -173.0 -0.08696         -0.08696  -215.1  -171.3
              C:60122 LAWRENC7 115 60834 LAWRENC869.0 1     992
                Open 60122 LAWRENC7 115 60834 LAWRENC869.0 1                         -0.02676  0.00000    62.7    62.7
3032   -503.4 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -216.8  -173.0 -0.08707         -0.08696  -215.1  -171.3
              C:62980 MCLEOD 4 230 63054 PANTHER4 230 1    3394
                Open 62980 MCLEOD 4 230 63054 PANTHER4 230 1                          0.00625 -0.01700  -276.4  -267.8
3033   -503.2 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -216.8  -173.0 -0.08705         -0.08696  -215.1  -171.3
              C:64783 COLMBUS4 230 66509 FTRANDL4 230 1    3482
                Open 64783 COLMBUS4 230 66509 FTRANDL4 230 1                          0.00898 -0.01013  -190.0  -184.9
3034   -503.2 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -216.9  -173.0 -0.08718         -0.08696  -215.1  -171.3
              C:60265 LOON TP7 115 60830 EASTWD18 115 P1   1275
                Open 60265 LOON TP7 115 60830 EASTWD18 115 P1                         0.00843 -0.02555  -209.2  -196.4
3035   -503.1 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -216.9  -173.0 -0.08717         -0.08696  -215.1  -171.4
              C:BYN-WOW/KAN5                              3653
                Open 61948 BYRON  5 161 61964 OWATNNA5 161 1                          0.01019 -0.02028  -157.4  -147.2
                Open 60799 KASSON 869.0 61161 BYRON  869.0 1                         -0.00551  0.00000    26.8    26.8
3036   -502.4 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -14.0   -12.0 -0.00398         -0.00453   -17.8   -15.5
              C:34589 HOPEVIL869.0 34590 GRDRVRE869.0 1     694
                Open 34589 HOPEVIL869.0 34590 GRDRVRE869.0 1                          0.50965  0.00108     7.4     6.9
3037   -501.5 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -184.2  -167.0 -0.03431         -0.03350  -177.1  -160.3
              C:34260 DELEAST869.0 62329 WNBGOTP869.0 1     420
                Open 34260 DELEAST869.0 62329 WNBGOTP869.0 1                          0.29754 -0.00274   -24.0   -22.6
3038   -501.5 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          83.0    80.0  0.00606          0.00593    81.8    78.8
              C:050    3                                  3717
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.00177 -0.06704  -692.1  -658.5
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                         -0.00086 -0.00300     0.0     1.5
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                         -0.00067 -0.00148   -42.6   -41.9
3039   -501.4 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -216.7  -173.0 -0.08717         -0.08696  -215.1  -171.5
              C:61948 BYRON  5 161 61964 OWATNNA5 161 1    1696
                Open 61948 BYRON  5 161 61964 OWATNNA5 161 1                          0.01019 -0.02028  -157.4  -147.3
3041   -500.6 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -216.5  -173.0 -0.08696         -0.08696  -215.1  -171.6
              C:X0897-0898o1                              3647
                Open 60193 BLUE LK7 115 60215 HYLNDLK7 115 1                          0.00023 -0.00067   172.8   173.1
                Open 60215 HYLNDLK7 115 60261 DEANLAK7 115 1     NA
                Open 60244 SCOTTCO7 115 60261 DEANLAK7 115 1                         -0.01296  0.00000   113.6   113.6
3043   -500.5 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -216.6  -173.0 -0.08702         -0.08696  -215.1  -171.6
              C:CNC-KOL/TER3                              3633
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                         -0.00148  0.02476   409.3   396.9
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                         -0.00134  0.01934   627.4   617.8
3044   -499.8 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -216.5  -173.0 -0.08704         -0.08696  -215.1  -171.6
              C:ASK-CHI/KOL3                              3641
                Open 60186 AS KING3 345 60199 CHIS CO3 345 1                          0.00168 -0.00535  -490.2  -487.5
                Open 60186 AS KING3 345 60221 KOLMNLK3 345 1                          0.00176 -0.03910  -330.7  -311.2
3045   -499.8 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -216.5  -173.0 -0.08704         -0.08696  -215.1  -171.6
              C:022       6                               3707
                Open 60186 AS KING3 345 60199 CHIS CO3 345 1                          0.00168 -0.00535  -490.2  -487.5
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                Open 60186 AS KING3 345 60221 KOLMNLK3 345 1                          0.00176 -0.03910  -330.7  -311.2
3046   -499.7 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -216.5  -173.0 -0.08703         -0.08696  -215.1  -171.6
               C:022       3                                 3704
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                         -0.00156  0.02476   409.3   397.0
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                         -0.00145  0.01934   627.4   617.8
                Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                          0.00015  0.00036   207.1   206.9
                Open 60251 TERMINL3 345 61491 TERMID2Y 345 1                          0.00041 -0.00168   339.2   340.0
                Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                         -0.01176  0.00000     0.2     0.2
                Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
3047   -498.8 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -216.4  -173.0 -0.08696         -0.08696  -215.1  -171.7
               C:34066 M-TOWN 7 115 34088 M-TOWN3G13.8 1    2761
                Open 34066 M-TOWN 7 115 34088 M-TOWN3G13.8 1                          0.01572  0.00000   -81.0   -81.0
3048   -497.7 L:60823 REDWING869.0 60824 FRONTNC869.0 1          50.1    48.0  0.00416          0.00360    36.5    34.7
               C:050    1                                    3715
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.03131  0.06362   901.3   869.6
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          0.02034 -0.06704  -692.1  -658.7
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                         -0.00000 -0.00175    77.5    78.3
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                          0.01769 -0.00300     0.0     1.5
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                          0.01336 -0.00148   -42.6   -41.9
3049   -497.6 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -216.3  -173.0 -0.08696         -0.08696  -215.1  -171.8
               C:MOL-RIV/CNC7                                3679
                Open 60203 COON CK7 115 60229 MOORELK7 115 1                         -0.00013  0.00098   139.6   139.2
                Open 60229 MOORELK7 115 60240 RIVRSID7 115 1                         -0.01198  0.00000    96.2    96.2
3050   -497.4 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          83.0    80.0  0.00602          0.00593    81.8    78.8
               C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00134  0.06362   901.3   869.7
3051   -497.2 L:34641 KELLERT869.0 34643 GRRIVER869.0 1         -14.0   -12.0 -0.00398         -0.00453   -17.8   -15.5
               C:34587 MURRAY 869.0 34589 HOPEVIL869.0 1     688
                Open 34587 MURRAY 869.0 34589 HOPEVIL869.0 1                          0.50965  0.00108     7.5     6.9
3052   -497.2 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -216.6  -173.0 -0.08766         -0.08696  -215.1  -171.9
               C:34047 ANTA TP5 161 66560 CRESTON5 161 1     108
                Open 34047 ANTA TP5 161 66560 CRESTON5 161 1                         -0.02719  0.02560    54.4    41.7
3053   -497.2 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -216.3  -173.0 -0.08705         -0.08696  -215.1  -171.9
               C:022       1                                 3703
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                         -0.00184  0.02476   409.3   397.0
                Open 60221 KOLMNLK3 345 60251 TERMINL3 345 1                          0.00100 -0.02267    47.8    59.1
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                         -0.00085  0.01934   627.4   617.8
                Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                          0.00033  0.00036   207.1   206.9
                Open 60251 TERMINL3 345 61492 TERMID1Y 345 1     NA
                Open 60252 TERMINL7 115 61492 TERMID1Y 345 1                         -0.00000  0.00166  -335.8  -336.7
                Open 61187 TERTER1934.5 61492 TERMID1Y 345 1     NA
                Open 60251 TERMINL3 345 61491 TERMID2Y 345 1     NA
                Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                         -0.01206  0.00000     0.3     0.3
                Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
3054   -497.1 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -216.2  -173.0 -0.08696         -0.08696  -215.1  -171.9
               C:60834 LAWRENC869.0 60863 SF M2 T869.0 1    1491
                Open 60834 LAWRENC869.0 60863 SF M2 T869.0 1                         -0.02676  0.00000    42.2    42.2
3055   -496.8 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -216.6  -173.0 -0.08778         -0.08696  -215.1  -171.9
               C:34018 HAZLTON3 345 34093 ARNOLD 3 345 1      55
                Open 34018 HAZLTON3 345 34093 ARNOLD 3 345 1                         -0.00455  0.18131   333.4   243.3
3056   -496.5 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -216.2  -173.0 -0.08706         -0.08696  -215.1  -171.9
               C:60107 W FARIB7 115 61952 S FARIB5 161 1     955
                Open 60107 W FARIB7 115 61952 S FARIB5 161 1                         -0.00709  0.01457   159.6   152.4
3058   -496.3 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -216.2  -173.0 -0.08706         -0.08696  -215.1  -171.9
               C:61952 S FARIB5 161 61964 OWATNNA5 161 1    1697
                Open 61952 S FARIB5 161 61964 OWATNNA5 161 1                         -0.00709  0.01457   157.1   149.9
3060   -496.2 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -216.2  -173.0 -0.08700         -0.08696  -215.1  -172.0
               C:61906 MAPLE LF 161 61948 BYRON  5 161 1    3372
                Open 61906 MAPLE LF 161 61948 BYRON  5 161 1                          0.00345 -0.01203  -309.4  -303.4
3061   -496.1 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -216.2  -173.0 -0.08703         -0.08696  -215.1  -172.0
               C:60189 BLK DOG4 230 60190 BLK DOG7 115 C1   1120
                Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                        -0.00561  0.01298   192.3   185.9
3062   -496.1 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -216.2  -173.0 -0.08703         -0.08696  -215.1  -172.0
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              C:810   C1                                    3767
                Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                          0.00561 -0.01298  -192.3  -185.9
                Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                        -0.01214  0.00000    -0.0    -0.0
3063   -496.1 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -216.2  -173.0 -0.08703         -0.08696  -215.1  -172.0
              C:60189 BLK DOG4 230 62980 MCLEOD 4 230 1    1121
                Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                          0.00561 -0.01298  -192.3  -185.9
3064   -496.1 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -216.2  -173.0 -0.08711         -0.08696  -215.1  -172.0
              C:885                                         3780
                Open 69507 SENECA 5 161 69511 BELLCTR5 161 1                          0.00261  0.00408   129.4   127.4
                Open 69507 SENECA 5 161 69523 GENOA  5 161 1                          0.00509 -0.03083  -284.7  -269.4
3065   -495.9 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -216.2  -173.0 -0.08707         -0.08696  -215.1  -172.0
              C:60192 BLUE LK3 345 60217 INVRHLS3 345 1    1126
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.00226  0.04835   476.6   452.6
3066   -495.8 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -216.1  -173.0 -0.08702         -0.08696  -215.1  -172.0
              C:500                                         3718
                Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                          0.00563 -0.01028  -216.5  -211.4
                Open 62427 WILLMAR869.0 63050 WILLMAR4 230 1                         -0.00451  0.00004   -38.4   -38.5
3068   -495.7 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -216.2  -173.0 -0.08709         -0.08696  -215.1  -172.0
              C:60107 W FARIB7 115 60265 LOON TP7 115 C1    952
                Open 60107 W FARIB7 115 60265 LOON TP7 115 C1                         0.00644 -0.02017  -166.9  -156.9
3071   -494.4 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -217.6  -173.0 -0.09015         -0.08696  -215.1  -172.1
              C:34006 LAKEFLD3 345 60331 LKFLDXL3 345 1      21
                Open 34006 LAKEFLD3 345 60331 LKFLDXL3 345 1                         -0.02324  0.13720   106.4    38.6
3072   -493.2 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -183.9  -167.0 -0.03431         -0.03350  -177.1  -160.6
              C:34265 WALTERS869.0 62332 CLARK  869.0 1     430
                Open 34265 WALTERS869.0 62332 CLARK  869.0 1                          0.29754 -0.00274   -23.0   -21.7
3075   -490.8 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          83.0    80.0  0.00605          0.00593    81.8    78.9
              C:39244 ARP 345  345 60304 EAU CL 3 345 1    2888
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.00171 -0.06704  -692.1  -659.2
3077   -489.1 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -183.8  -167.0 -0.03431         -0.03350  -177.1  -160.7
              C:34260 DELEAST869.0 62333 EASTON 869.0 1     421
                Open 34260 DELEAST869.0 62333 EASTON 869.0 1                         -0.29754  0.00274    22.5    21.2
3078   -488.9 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -216.3  -173.0 -0.08855         -0.08696  -215.1  -172.6
              C:34139 HANCOCK5 161 63716 BURT   5 161 1    2806
                Open 34139 HANCOCK5 161 63716 BURT   5 161 1                          0.02176 -0.07289   -54.8   -19.2
3079   -488.2 L:61615 ARROWHD4 230 61619 AHD PST  230 1         778.3   750.0  0.05790          0.03683   546.5   528.5
              C:050    2                                    3716
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.05825  0.06362   901.3   870.3
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.25903 -0.06704  -692.1  -659.4
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                         -0.00000 -0.00175    77.5    78.3
3080   -488.2 L:61932 RUTLAND5 161 61934 RUTLAND 69.0 1         -82.7   -74.7 -0.01630         -0.00288   -17.7   -16.3
              C:34008 FOX LK 5 161 61932 RUTLAND5 161 1      28
                Open 34008 FOX LK 5 161 61932 RUTLAND5 161 1                         -0.27868  0.04814   233.2   209.7
3081   -487.0 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -325.1  -318.0 -0.01468         -0.01397  -311.5  -304.7
              C:63051 HENNING4 230 63052 INMAN  4 230 1    2052
                Open 63051 HENNING4 230 63052 INMAN  4 230 1                         -0.06482  0.01089   210.2   204.9
3082   -486.4 L:61618 ARROWHD3 345 61619 AHD PST  230 1        -778.2  -750.0 -0.05790         -0.03683  -546.4  -528.5
              C:050    2                                    3716
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                         -0.05825  0.06362   901.3   870.4
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          0.25903 -0.06704  -692.1  -659.5
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                         -0.00000 -0.00175    77.5    78.3
3083   -486.4 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          83.0    80.0  0.00620          0.00593    81.8    78.9
              C:34585 LORIMRR869.0 34586 LORIMOR869.0 1     685
                Open 34585 LORIMRR869.0 34586 LORIMOR869.0 1                          0.03675  0.00726    33.5    30.0
3084   -486.4 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          83.0    80.0  0.00620          0.00593    81.8    78.9
              C:34585 LORIMRR869.0 34588 SLAKEN 869.0 1     686
                Open 34585 LORIMRR869.0 34588 SLAKEN 869.0 1                         -0.03675 -0.00726   -33.5   -30.0
3085   -484.1 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -215.1  -173.0 -0.08696
                Base Case
3086   -483.8 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          68.5    60.0  0.01754          0.01629    65.0    57.1
              C:34185 POWESHK5 161 34191 REASNOR5 161 1     300
                Open 34185 POWESHK5 161 34191 REASNOR5 161 1                         -0.02638 -0.04760  -132.1  -109.1
3087   -483.2 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          83.0    80.0  0.00620          0.00593    81.8    78.9
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              C:34586 LORIMOR869.0 34587 MURRAY 869.0 1     687
                Open 34586 LORIMOR869.0 34587 MURRAY 869.0 1                          0.03675  0.00726    33.0    29.5
3088   -483.1 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -215.9  -200.0 -0.03292         -0.03224  -197.2  -181.6
              C:34016 EMERY  5 161 34395 EMERY S869.0 1      50
                Open 34016 EMERY  5 161 34395 EMERY S869.0 1                         -0.27801  0.00244    67.2    66.0
3089   -483.0 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -215.9  -200.0 -0.03292         -0.03224  -197.2  -181.6
              C:34016 EMERY  5 161 34396 EMERY N869.0 1      51
                Open 34016 EMERY  5 161 34396 EMERY N869.0 1                         -0.27799  0.00244    67.2    66.0
3091   -480.9 L:64256 UNIONTP5 161 64655 UNI MID869.0 1          102.2   100.0  0.00456          0.00392    99.8    97.9
              C:825                                         3771
                Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                         -0.00013 -0.09714  -545.7  -499.0
                Open 34014 ADAMS  5 161 60102 ADAMS  3 345 1                         -0.00000  0.02245    -2.8   -13.6
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                         -0.00443 -0.14203  -525.7  -457.4
3093   -479.9 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1           67.9    60.0  0.01649          0.01629    65.0    57.2
              C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00323  0.06362   901.3   870.8
3095   -478.7 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1           69.4    60.0  0.01955          0.01629    65.0    57.2
              C:34087 DYSART 5 161 34089 VINTON 5 161 1     176
                Open 34087 DYSART 5 161 34089 VINTON 5 161 1                          0.06893  0.04736    63.2    40.5
3097   -478.3 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -183.4  -167.0 -0.03431         -0.03350  -177.1  -161.1
              C:34284 MINNLKT869.0 62333 EASTON 869.0 1     454
                Open 34284 MINNLKT869.0 62333 EASTON 869.0 1                          0.29754 -0.00274   -21.3   -20.0
3098   -478.3 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -183.4  -167.0 -0.03431         -0.03350  -177.1  -161.1
              C:34284 MINNLKT869.0 61938 WELLS   69.0 1     453
                Open 34284 MINNLKT869.0 61938 WELLS   69.0 1                         -0.29754  0.00274    21.3    20.0
3100   -477.8 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1           67.8    60.0  0.01625          0.01629    65.0    57.2
              C:34067 6 ST   5 161 34091 ARNOLD 5 161 1     148
                Open 34067 6 ST   5 161 34091 ARNOLD 5 161 1                         -0.03097  0.00119   -89.2   -89.7
3101   -477.8 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1           67.8    60.0  0.01625          0.01629    65.0    57.2
              C:34097 6 ST   7 115 34527 6 ST   Y 161 1     185
                Open 34097 6 ST   7 115 34527 6 ST   Y 161 1                         -0.03097  0.00119   -89.2   -89.7
3102   -477.8 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1           67.8    60.0  0.01625          0.01629    65.0    57.2
              C:34067 6 ST   5 161 34527 6 ST   Y 161 1     149
                Open 34067 6 ST   5 161 34527 6 ST   Y 161 1                          0.03097 -0.00119    89.2    89.7
3105   -475.7 L:34251 MADLIAJ869.0 60701 MADELVL869.0 1           42.7    36.0  0.01407          0.00606     2.5    -0.4
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                         -0.05727 -0.13973  -702.5  -636.1
3106   -475.6 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         260.6   240.0  0.04337          0.03530   241.7   224.9
              C:63875 RAUN   3 345 66564 SIOUXCY3 345 1    3465
                Open 63875 RAUN   3 345 66564 SIOUXCY3 345 1                         -0.07227 -0.11165  -262.5  -209.4
3107   -475.3 L:60310 MONROCO5 161 60949 MONROCO869.0 1           71.4    70.0  0.00302          0.00246    66.3    65.1
              C:60949 MONROCO869.0 60951 ROCKLND869.0 1    1555
                Open 60949 MONROCO869.0 60951 ROCKLND869.0 1                         -0.51791 -0.00109    -9.9    -9.4
3109   -474.4 L:64256 UNIONTP5 161 64655 UNI MID869.0 1         102.2   100.0  0.00456          0.00392    99.8    97.9
              C:34018 HAZLTON3 345 60102 ADAMS  3 345 1      56
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                         -0.00450 -0.14203  -525.7  -458.3
3110   -474.3 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -214.0  -173.0 -0.08654         -0.08696  -215.1  -173.9
              C:34052 AMES   7 115 34076 BNE JCT7 115 1     117
                Open 34052 AMES   7 115 34076 BNE JCT7 115 1                         -0.02820 -0.01508   -37.4   -30.2
3111   -473.6 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -214.1  -173.0 -0.08670         -0.08696  -215.1  -173.9
              C:34075 ELDORA 7 115 34169 WELSBGT7 115 1     161
                Open 34075 ELDORA 7 115 34169 WELSBGT7 115 1                          0.02118  0.01241    49.1    43.2
3113   -473.4 L:60934 WATOWAN869.0 62805 STJAMES869.0 1           38.1    36.0  0.00453          0.00284    33.0    31.7
              C:LAKF-FOX DBL                                3781
                Open 34007 LAKEFLD5 161 34008 FOX LK 5 161 1                          0.03130  0.02660    78.8    66.2
                Open 34007 LAKEFLD5 161 34008 FOX LK 5 161 2                          0.03130  0.02728    84.2    71.3
3115   -472.7 L:60934 WATOWAN869.0 62805 STJAMES869.0 1           37.4    36.0  0.00296          0.00284    33.0    31.7
              C:34230 COMFREY869.0 34240 DOTSON 869.0 1     380
                Open 34230 COMFREY869.0 34240 DOTSON 869.0 1                          0.40950  0.00029    10.6    10.5
3116   -472.3 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -214.1  -173.0 -0.08696         -0.08696  -215.1  -174.0
              C:66509 FTRANDL4 230 66548 FTRDL56G13.8 1    3554
                Open 66509 FTRANDL4 230 66548 FTRDL56G13.8 1                         -0.02392  0.00000   -42.9   -42.9
3117   -472.3 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -214.1  -173.0 -0.08696         -0.08696  -215.1  -174.0
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              C:66509 FTRANDL4 230 66547 FTRDL34G13.8 1    3553
                Open 66509 FTRANDL4 230 66547 FTRDL34G13.8 1                          -0.02392  0.00000   -42.9   -42.9
3118   -472.3 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -214.0  -173.0 -0.08681         -0.08696  -215.1  -174.0
              C:34061 BNE JCT5 161 34076 BNE JCT7 115 2     137
                Open 34061 BNE JCT5 161 34076 BNE JCT7 115 2                           0.02260  0.00666    48.7    45.5
3120   -471.8 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -214.1  -173.0 -0.08708         -0.08696  -215.1  -174.1
              C:PRI-RRK/RRK3                                3644
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 1                           0.00335 -0.01692   149.9   157.9
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                           0.00335 -0.01725   152.8   160.9
3121   -471.8 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -214.1  -173.0 -0.08708         -0.08696  -215.1  -174.1
              C:760                                         3759
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 1                           0.00335 -0.01692   149.9   157.9
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                           0.00335 -0.01725   152.8   160.9
3124   -471.6 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -214.1  -173.0 -0.08713         -0.08696  -215.1  -174.1
              C:66536 RASMUSN4 230 66565 SIOUXCY4 230 1    2505
                Open 66536 RASMUSN4 230 66565 SIOUXCY4 230 1                           0.00928 -0.01830   108.8   117.5
3126   -471.4 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -18.0   -17.3 -0.00147         -0.00089   -19.8   -19.4
              C:60652 CROWRV 869.0 62943 VICTOR 869.0 1    1380
                Open 60652 CROWRV 869.0 62943 VICTOR 869.0 1                           0.50144 -0.00114     3.6     4.1
3127   -471.3 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -214.0  -173.0 -0.08699         -0.08696  -215.1  -174.1
              C:60287 NOBLES 7 115 60369 FENTON 7 115 C1   1292
                Open 60287 NOBLES 7 115 60369 FENTON 7 115 C1                         -0.00398  0.00735  -276.6  -280.0
3128   -471.2 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          67.9    60.0  0.01672          0.01629    65.0    57.3
              C:61950 BYRON  3 345 63032 PL VLLY3 345 1    3375
                Open 61950 BYRON  3 345 63032 PL VLLY3 345 1                           0.00506  0.08464   567.6   527.7
3129   -470.9 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -213.8  -173.0 -0.08670         -0.08696  -215.1  -174.2
              C:34075 ELDORA 7 115 34077 IA FALS7 115 1     160
                Open 34075 ELDORA 7 115 34077 IA FALS7 115 1                          -0.02118 -0.01241   -60.2   -54.4
3130   -470.3 L:64256 UNIONTP5 161 64655 UNI MID869.0 1         102.1   100.0  0.00448          0.00392    99.8    98.0
              C:34079 TRAER  5 161 34087 DYSART 5 161 1     163
                Open 34079 TRAER  5 161 34087 DYSART 5 161 1                           0.02188  0.02549   105.6    93.6
3131   -470.3 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -213.9  -173.0 -0.08696         -0.08696  -215.1  -174.2
              C:60193 BLUE LK7 115 61476 BLL TR5Y 115 5    1130
                Open 60193 BLUE LK7 115 61476 BLL TR5Y 115 5                          -0.01278  0.00000   -94.0   -94.0
3132   -470.1 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -213.9  -173.0 -0.08696         -0.08696  -215.1  -174.2
              C:66540 BIGBND14 230 66543 BGBND34G13.8 1    3567
                Open 66540 BIGBND14 230 66543 BGBND34G13.8 1                          -0.02077  0.00000   -58.9   -58.9
3133   -470.0 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -213.9  -173.0 -0.08696         -0.08696  -215.1  -174.2
              C:60193 BLUE LK7 115 61477 BLL TR6Y 115 6    1131
                Open 60193 BLUE LK7 115 61477 BLL TR6Y 115 6                          -0.01278  0.00000   -96.0   -96.0
3140   -469.1 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          67.8    60.0  0.01656          0.01629    65.0    57.4
              C:050    3                                    3717
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.00397 -0.06704  -692.1  -660.7
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                          -0.00115 -0.00300     0.0     1.4
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                          -0.00043 -0.00148   -42.6   -41.9
3141   -469.0 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          82.9    80.0  0.00609          0.00593    81.8    79.0
              C:61950 BYRON  3 345 63032 PL VLLY3 345 1    3375
                Open 61950 BYRON  3 345 63032 PL VLLY3 345 1                           0.00189  0.08464   567.6   527.9
3142   -468.9 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -213.9  -173.0 -0.08713         -0.08696  -215.1  -174.3
              C:66526 UTICAJC4 230 66536 RASMUSN4 230 1    2496
                Open 66526 UTICAJC4 230 66536 RASMUSN4 230 1                           0.00928 -0.01830   134.3   142.9
3143   -468.2 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -213.5  -173.0 -0.08658         -0.08696  -215.1  -174.4
              C:34014 ADAMS  5 161 34015 LIME CK5 161 1      42
                Open 34014 ADAMS  5 161 34015 LIME CK5 161 1                          -0.01364 -0.02813  -114.8  -101.6
3144   -468.2 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -213.7  -173.0 -0.08696         -0.08696  -215.1  -174.4
              C:60013 BLK D73G13.8 60200 BLK DG27 115 1    2903
                Open 60013 BLK D73G13.8 60200 BLK DG27 115 1                          -0.01234  0.00000  -112.6  -112.6
3145   -468.1 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -213.8  -173.0 -0.08718         -0.08696  -215.1  -174.4
              C:66509 FTRANDL4 230 66565 SIOUXCY4 230 1    2470
                Open 66509 FTRANDL4 230 66565 SIOUXCY4 230 1                           0.01191 -0.01883   108.5   117.3
3146   -467.4 L:60719 LAFAYET869.0 60725 WINTHRP869.0 1          38.6    37.0  0.00349          0.00152    23.3    22.6
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                           0.01742  0.11317   881.7   828.8
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3147   -467.2 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          67.8    60.0  0.01666          0.01629    65.0    57.4
               C:34107 BEVERLY5 161 34111 FAIRFAX5 161 1     197
                 Open 34107 BEVERLY5 161 34111 FAIRFAX5 161 1                          -0.02241 -0.01648  -124.0  -116.3
3148   -466.9 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -213.5  -173.0 -0.08682         -0.08696  -215.1  -174.5
               C:34061 BNE JCT5 161 34062 BNE JCT869.0 1     136
                 Open 34061 BNE JCT5 161 34062 BNE JCT869.0 1                           0.03740  0.00384    41.9    40.1
3149   -466.9 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -213.5  -173.0 -0.08682         -0.08696  -215.1  -174.5
               C:34062 BNE JCT869.0 64504 STANGE8 69.0 1    2757
                 Open 34062 BNE JCT869.0 64504 STANGE8 69.0 1                           0.03740  0.00384    41.9    40.1
3150   -465.8 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          67.8    60.0  0.01679          0.01629    65.0    57.4
               C:60102 ADAMS  3 345 63032 PL VLLY3 345 1    2933
                 Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                          -0.00516 -0.09714  -545.7  -500.4
3151   -465.4 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          67.7    60.0  0.01655          0.01629    65.0    57.4
               C:39244 ARP 345  345 60304 EAU CL 3 345 1    2888
                 Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.00390 -0.06704  -692.1  -660.9
3152   -464.9 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -213.4  -173.0 -0.08696         -0.08696  -215.1  -174.7
               C:66507 FTTHOMP4 230 66541 BIGBND24 230 1    2462
                 Open 66507 FTTHOMP4 230 66541 BIGBND24 230 1                          -0.02077  0.00000   -80.5   -80.5
3153   -464.9 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -213.4  -173.0 -0.08696         -0.08696  -215.1  -174.7
               C:66541 BIGBND24 230 66545 BGBND78G13.8 1    3569
                 Open 66541 BIGBND24 230 66545 BGBND78G13.8 1                          -0.02077  0.00000   -80.6   -80.6
3154   -464.7 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -213.4  -173.0 -0.08696         -0.08696  -215.1  -174.7
               C:66442 GARRISN7 115 66461 GARISN5G13.8 1    3551
                 Open 66442 GARRISN7 115 66461 GARISN5G13.8 1                          -0.01820  0.00000   -92.8   -92.8
3155   -464.7 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -213.4  -173.0 -0.08696         -0.08696  -215.1  -174.7
               C:66442 GARRISN7 115 66460 GARISN4G13.8 1    3550
                 Open 66442 GARRISN7 115 66460 GARISN4G13.8 1                          -0.01820  0.00000   -92.9   -92.9
3156   -464.6 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -213.4  -173.0 -0.08696         -0.08696  -215.1  -174.7
               C:66441 GARRISN4 230 66458 GARISN2G13.8 1    3548
                 Open 66441 GARRISN4 230 66458 GARISN2G13.8 1                          -0.01839  0.00000   -92.6   -92.6
3157   -464.6 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -213.4  -173.0 -0.08696         -0.08696  -215.1  -174.7
               C:66441 GARRISN4 230 66457 GARISN1G13.8 1    3547
                 Open 66441 GARRISN4 230 66457 GARISN1G13.8 1                          -0.01839  0.00000   -92.6   -92.6
3158   -464.6 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -213.4  -173.0 -0.08696         -0.08696  -215.1  -174.7
               C:66441 GARRISN4 230 66459 GARISN3G13.8 1    3549
                 Open 66441 GARRISN4 230 66459 GARISN3G13.8 1                          -0.01839  0.00000   -92.6   -92.6
3160   -463.4 L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -213.2  -173.0 -0.08670         -0.08696  -215.1  -174.8
               C:34072 FRNKLIN7 115 34077 IA FALS7 115 1     155
                 Open 34072 FRNKLIN7 115 34077 IA FALS7 115 1                           0.02118  0.01241    91.0    85.2
3161   -463.4*L:64203 NW FTDG5 161 64230 POMEROY5 161 1        -213.2  -173.0 -0.08670         -0.08696  -215.1  -174.8
               C:34072 FRNKLIN7 115 34571 FRNKLN_Y 161 1     156
                 Open 34072 FRNKLIN7 115 34571 FRNKLN_Y 161 1                          -0.02118 -0.01241   -91.0   -85.2
3166   -462.5 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          82.9    80.0  0.00620          0.00593    81.8    79.0
               C:34587 MURRAY 869.0 34658 OSCEOLA869.0 1     689
                 Open 34587 MURRAY 869.0 34658 OSCEOLA869.0 1                           0.04368  0.00618    24.8    22.0
3172   -461.1 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          93.7    90.0  0.00809          0.00647    89.3    86.3
               C:34185 POWESHK5 161 34191 REASNOR5 161 1     300
                 Open 34185 POWESHK5 161 34191 REASNOR5 161 1                          -0.03388 -0.04760  -132.1  -110.1
3176   -458.7 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          82.8    80.0  0.00620          0.00593    81.8    79.1
               C:34658 OSCEOLA869.0 34659 OSCEREC869.0 1     755
                 Open 34658 OSCEOLA869.0 34659 OSCEREC869.0 1                           0.04368  0.00618    24.3    21.5
3177   -458.2 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -182.5  -167.0 -0.03373         -0.03350  -177.1  -161.7
               C:CNC-KOL/TER3                               3633
                 Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          -0.00549  0.02476   409.3   398.0
                 Open 60202 COON CK3 345 60251 TERMINL3 345 1                          -0.00499  0.01934   627.4   618.6
3182   -454.1 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          82.8    80.0  0.00620          0.00593    81.8    79.1
               C:34640 WODBURN869.0 34659 OSCEREC869.0 1     739
                 Open 34640 WODBURN869.0 34659 OSCEREC869.0 1                          -0.04368 -0.00618   -23.6   -20.8
3184   -453.6 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -324.2  -318.0 -0.01363         -0.01397  -311.5  -305.2
               C:60131 SPLTRTB3 345 66564 SIOUXCY3 345 1    1009
                 Open 60131 SPLTRTB3 345 66564 SIOUXCY3 345 1                          -0.02330 -0.01463   543.3   549.9
3185   -453.6 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -324.2  -318.0 -0.01363         -0.01397  -311.5  -305.2
               C:60126 SPLT RK3 345 60131 SPLTRTB3 345 1    1002
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                Open 60126 SPLT RK3 345 60131 SPLTRTB3 345 1                          -0.02330 -0.01463   543.3   549.9
3186   -453.4 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -182.4  -167.0 -0.03404         -0.03350  -177.1  -161.9
               C:60192 BLUE LK3 345 60217 INVRHLS3 345 1    1126
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.01124  0.04835   476.6   454.7
3192   -452.3 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          67.9    60.0  0.01746          0.01629    65.0    57.6
               C:34084 PARNEL 5 161 34185 POWESHK5 161 1     173
                Open 34084 PARNEL 5 161 34185 POWESHK5 161 1                          -0.02692 -0.04352  -107.5   -87.8
3193   -452.3 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          82.8    80.0  0.00624          0.00593    81.8    79.1
               C:34179 JASPER 5 161 34211 NEWTON 5 161 1     285
                Open 34179 JASPER 5 161 34211 NEWTON 5 161 1                           0.01565  0.01978    66.4    57.5
3194   -451.8 L:62526 RUSH LK7 115 62531 INMAN  7 115 1          72.9    71.4  0.00324          0.00107    29.0    28.5
               C:63051 HENNING4 230 63331 FERGSFL4 230 1    2053
                Open 63051 HENNING4 230 63331 FERGSFL4 230 1                          -0.19957 -0.01089  -219.8  -214.9
3195   -451.8 L:34138 DUNDEE 869.0 34521 GRELYTP869.0 1          26.5    24.0  0.00550          0.00309    22.1    20.7
               C:34018 HAZLTON3 345 34093 ARNOLD 3 345 1      55
                Open 34018 HAZLTON3 345 34093 ARNOLD 3 345 1                           0.01329  0.18131   333.4   251.5
3197   -451.7 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          82.8    80.0  0.00620          0.00593    81.8    79.1
               C:34625 LACONA 869.0 34627 LUCAS T869.0 1     725
                Open 34625 LACONA 869.0 34627 LUCAS T869.0 1                           0.04368  0.00618    23.3    20.5
3198   -451.7 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          82.8    80.0  0.00620          0.00593    81.8    79.1
               C:34625 LACONA 869.0 34640 WODBURN869.0 1     726
                Open 34625 LACONA 869.0 34640 WODBURN869.0 1                          -0.04368 -0.00618   -23.3   -20.5
3200   -451.5 L:34285 ALDEN J869.0 34286 ALEAWST869.0 1          47.1    44.0  0.00677          0.00555    34.7    32.2
               C:PRI-BYN/RRK3                               3646
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                           0.01609  0.07639   767.2   732.7
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                           0.00021 -0.01725   152.8   160.6
3201   -450.9 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -182.2  -167.0 -0.03375         -0.03350  -177.1  -162.0
               C:022       3                                3704
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          -0.00578  0.02476   409.3   398.2
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                          -0.00537  0.01934   627.4   618.7
                Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                           0.00049  0.00036   207.1   206.9
                Open 60251 TERMINL3 345 61491 TERMID2Y 345 1                           0.00145 -0.00168   339.2   340.0
                Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                          -0.00891  0.00000     0.2     0.2
                Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
3202   -450.4 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          67.3    60.0  0.01631          0.01629    65.0    57.7
               C:34101 HIAWATA7 115 34103 MARION 7 115 1     189
                Open 34101 HIAWATA7 115 34103 MARION 7 115 1                           0.04366  0.00053    53.7    53.4
3205   -450.0 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          82.8    80.0  0.00620          0.00593    81.8    79.1
               C:34202 LUCAS  869.0 34627 LUCAS T869.0 1     328
                Open 34202 LUCAS  869.0 34627 LUCAS T869.0 1                          -0.04368 -0.00618   -23.1   -20.3
3206   -447.9 L:34075 ELDORA 7 115 34077 IA FALS7 115 1         -66.4   -60.0 -0.01430         -0.01241   -60.2   -54.7
               C:825                                        3771
                Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                          -0.00435 -0.09714  -545.7  -502.2
                Open 34014 ADAMS  5 161 60102 ADAMS  3 345 1                           0.00000  0.02245    -2.8   -12.9
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                           0.01629 -0.14203  -525.7  -462.1
3210   -444.8 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -182.1  -167.0 -0.03403         -0.03350  -177.1  -162.2
               C:60126 SPLT RK3 345 60286 NOBLES 3 345 C1   1003
                Open 60126 SPLT RK3 345 60286 NOBLES 3 345 C1                          0.02946 -0.01796  -171.8  -163.8
3211   -444.3 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -181.9  -167.0 -0.03350         -0.03350  -177.1  -162.2
               C:34090 ARNOLD1G22.0 34091 ARNOLD 5 161 1    2774
                Open 34090 ARNOLD1G22.0 34091 ARNOLD 5 161 1                           0.01302  0.00000  -369.0  -369.0
3214   -443.9 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -184.7  -167.0 -0.03984         -0.03350  -177.1  -162.2
               C:63713 OSGOOD 5 161 66563 SPENCER5 161 1    3461
                Open 63713 OSGOOD 5 161 66563 SPENCER5 161 1                           0.04424 -0.14331  -172.0  -108.4
3215   -443.3 L:64256 UNIONTP5 161 64655 UNI MID869.0 1         101.4   100.0  0.00310          0.00392    99.8    98.1
               C:34087 DYSART 5 161 64269 WASHBRN5 161 1    2772
                Open 34087 DYSART 5 161 64269 WASHBRN5 161 1                           0.03779 -0.02187    41.7    51.4
3216   -443.2 L:60264 LOON LK7 115 61976 LOON LK869.0 1          77.2    75.0  0.00507          0.00538    85.3    82.9
               C:61906 MAPLE LF 161 61948 BYRON  5 161 1    3372
                Open 61906 MAPLE LF 161 61948 BYRON  5 161 1                           0.02603 -0.01203  -309.4  -304.1
3217   -443.1 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -49.1   -48.0 -0.00259         -0.00216   -44.9   -44.0
               C:60818 ZUMBRTA869.0 60819 CHERYTP869.0 1    1478
                Open 60818 ZUMBRTA869.0 60819 CHERYTP869.0 1                           0.27260 -0.00161   -15.6   -14.8
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3221   -440.4 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          82.9    80.0  0.00653          0.00593    81.8    79.2
              C:34018 HAZLTON3 345 34093 ARNOLD 3 345 1      55
                Open 34018 HAZLTON3 345 34093 ARNOLD 3 345 1                          0.00327  0.18131   333.4   253.6
3222   -439.6 L:60742 PANTHER869.0 63054 PANTHER4 230 1         -70.3   -70.0 -0.00072          0.00014   -40.1   -40.2
              C:60148 MINVALY7 115 61954 REDFLST7 115 P1   1053
                Open 60148 MINVALY7 115 61954 REDFLST7 115 P1                        -0.33704  0.00255    89.7    88.6
3223   -439.3 L:34285 ALDEN J869.0 34286 ALEAWST869.0 1          47.0    44.0  0.00677          0.00555    34.7    32.2
              C:60105 PR ISLD3 345 61950 BYRON  3 345 1     951
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                          0.01603  0.07639   767.2   733.6
3224   -438.3 L:64256 UNIONTP5 161 64655 UNI MID869.0 1         101.9   100.0  0.00436          0.00392    99.8    98.1
              C:34075 ELDORA 7 115 34077 IA FALS7 115 1     160
                Open 34075 ELDORA 7 115 34077 IA FALS7 115 1                         -0.03510 -0.01241   -60.2   -54.8
3226   -436.3 L:60310 MONROCO5 161 60949 MONROCO869.0 1          71.5    70.0  0.00334          0.00246    66.3    65.2
              C:60954 TMAC 2 869.0 60957 CATARAC869.0 1    1561
                Open 60954 TMAC 2 869.0 60957 CATARAC869.0 1                         -0.42122 -0.00208   -12.2   -11.3
3228   -435.4 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          36.7    36.0  0.00162          0.00284    33.0    31.8
              C:34231 MT LAKE869.0 60935 BUTRFLD869.0 1     384
                Open 34231 MT LAKE869.0 60935 BUTRFLD869.0 1                         -0.35456  0.00344   -10.3   -11.8
3229   -434.8 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -181.7  -167.0 -0.03375         -0.03350  -177.1  -162.5
              C:34009 WINBAGO5 161 34257 WBGOJ N869.0 1      30
                Open 34009 WINBAGO5 161 34257 WBGOJ N869.0 1                         -0.14949  0.00166    30.8    30.0
3231   -433.4 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -181.6  -167.0 -0.03376         -0.03350  -177.1  -162.6
              C:022       6                                3707
                Open 60186 AS KING3 345 60199 CHIS CO3 345 1                          0.00531 -0.00535  -490.2  -487.9
                Open 60186 AS KING3 345 60221 KOLMNLK3 345 1                          0.00589 -0.03910  -330.7  -313.8
3232   -433.4 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -181.6  -167.0 -0.03376         -0.03350  -177.1  -162.6
              C:ASK-CHI/KOL3                                   3641
                Open 60186 AS KING3 345 60199 CHIS CO3 345 1                          0.00531 -0.00535  -490.2  -487.9
                Open 60186 AS KING3 345 60221 KOLMNLK3 345 1                          0.00589 -0.03910  -330.7  -313.8
3239   -429.4 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          67.2    60.0  0.01666          0.01629    65.0    58.0
              C:34106 PCI    5 161 34107 BEVERLY5 161 1     194
                Open 34106 PCI    5 161 34107 BEVERLY5 161 1                         -0.02241 -0.01648   -95.9   -88.8
3240   -428.5 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -181.5  -167.0 -0.03376         -0.03350  -177.1  -162.7
              C:66506 FTTHOMP3 345 66571 GR ISLD3 345 1    3552
                Open 66506 FTTHOMP3 345 66571 GR ISLD3 345 1                         -0.01033  0.02536   425.1   414.3
3241   -428.3 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          67.1    60.0  0.01663          0.01629    65.0    58.0
              C:34015 LIME CK5 161 34016 EMERY  5 161 1      46
                Open 34015 LIME CK5 161 34016 EMERY  5 161 1                         -0.01076 -0.03224  -197.2  -183.4
3242   -428.3 L:34265 WALTERS869.0 34285 ALDEN J869.0 1          47.0    44.0  0.00698          0.00555    37.4    35.0
              C:61950 BYRON  3 345 63032 PL VLLY3 345 1    3375
                Open 61950 BYRON  3 345 63032 PL VLLY3 345 1                          0.01692  0.08464   567.6   531.3
3245   -427.8 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -181.3  -167.0 -0.03350         -0.03350  -177.1  -162.7
              C:34021 LANSINGW 161 34024 LANS5 4G22.0 1    2727
                Open 34021 LANSINGW 161 34024 LANS5 4G22.0 1                          0.02611  0.00000  -163.0  -163.0
3246   -427.8 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -181.5  -167.0 -0.03381         -0.03350  -177.1  -162.7
              C:022       1                                3703
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                         -0.00678  0.02476   409.3   398.7
                Open 60221 KOLMNLK3 345 60251 TERMINL3 345 1                          0.00356 -0.02267    47.8    57.5
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                         -0.00322  0.01934   627.4   619.2
                Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                          0.00115  0.00036   207.1   206.9
                Open 60251 TERMINL3 345 61492 TERMID1Y 345 1     NA
                Open 60252 TERMINL7 115 61492 TERMID1Y 345 1                          0.00000  0.00166  -335.8  -336.6
                Open 61187 TERTER1934.5 61492 TERMID1Y 345 1     NA
                Open 60251 TERMINL3 345 61491 TERMID2Y 345 1     NA
                Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                         -0.00998  0.00000     0.3     0.3
                Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
3247   -427.6 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -181.5  -167.0 -0.03385         -0.03350  -177.1  -162.8
              C:60110 WILMART7 115 60194 CARVRCO7 115 1     964
                Open 60110 WILMART7 115 60194 CARVRCO7 115 1                         -0.03955  0.00886   111.2   107.4
3248   -427.2 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -181.6  -167.0 -0.03411         -0.03350  -177.1  -162.8
              C:34262 BRCLYNT869.0 69042 T BRC   69.0 1     425
                Open 34262 BRCLYNT869.0 69042 T BRC   69.0 1                          0.21734 -0.00281   -20.7   -19.5
3250   -426.0 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -214.1  -200.0 -0.03320         -0.03224  -197.2  -183.5
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                C:34393 MCHW106869.0 34395 EMERY S869.0 1     550
                  Open 34393 MCHW106869.0 34395 EMERY S869.0 1                                0.33318 -0.00289   -50.8   -49.6
3251   -425.1 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          67.2    60.0  0.01694          0.01629    65.0    58.1
                C:34179 JASPER 5 161 34211 NEWTON 5 161 1     285
                  Open 34179 JASPER 5 161 34211 NEWTON 5 161 1                                0.03309  0.01978    66.4    58.0
3252   -424.6 L:34075 ELDORA 7 115 34077 IA FALS7 115 1         -65.6   -60.0 -0.01330         -0.01241   -60.2   -54.9
                C:34015 LIME CK5 161 34016 EMERY  5 161 1      46
                  Open 34015 LIME CK5 161 34016 EMERY  5 161 1                                0.02753 -0.03224  -197.2  -183.5
3256   -422.9 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         256.1   240.0  0.03818          0.03530   241.7   226.7
                C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                  Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                               -0.02063 -0.13973  -702.5  -643.5
3263   -418.7 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          66.8    60.0  0.01629          0.01629    65.0    58.2
                C:34068 M-TOWN 5 161 34069 TIMBRCK5 161 1     150
                  Open 34068 M-TOWN 5 161 34069 TIMBRCK5 161 1                                0.07240  0.00000    25.1    25.1
3264   -416.5 L:34075 ELDORA 7 115 34077 IA FALS7 115 1         -66.6   -60.0 -0.01589         -0.01241   -60.2   -55.0
                C:34018 HAZLTON3 345 34093 ARNOLD 3 345 1      55
                  Open 34018 HAZLTON3 345 34093 ARNOLD 3 345 1                               -0.01920  0.18131   333.4   257.9
3267   -414.7 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          66.7    60.0  0.01623          0.01629    65.0    58.2
                C:34105 HIAWATA5 161 34535 HIAWATAY 161 1     193
                  Open 34105 HIAWATA5 161 34535 HIAWATAY 161 1                                0.03491 -0.00171    49.4    50.2
3268   -414.7 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          66.7    60.0  0.01623          0.01629    65.0    58.2
                C:34101 HIAWATA7 115 34535 HIAWATAY 161 1     190
                  Open 34101 HIAWATA7 115 34535 HIAWATAY 161 1                               -0.03491  0.00171   -49.4   -50.2
3269   -414.1 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          67.2    60.0  0.01746          0.01629    65.0    58.3
                C:34084 PARNEL 5 161 64351 HILLS  5 161 1    2769
                  Open 34084 PARNEL 5 161 64351 HILLS  5 161 1                                0.02692  0.04352    82.7    64.7
3270   -414.1 L:66574 SIOUXCY869.0 63890 PLYMOTH869.0 1          56.4    45.0  0.02759         -0.00212     5.0     5.9
                C:63889 PLYMOTH5 161 66566 SIOUXCY5 161 1    3468
                  Open 63889 PLYMOTH5 161 66566 SIOUXCY5 161 1                               -0.27447 -0.10825  -187.4  -142.6
3271   -413.0 L:60310 MONROCO5 161 60949 MONROCO869.0 1          71.4    70.0  0.00334          0.00246    66.3    65.3
                C:60954 TMAC 2 869.0 60956 MCCOY  869.0 1    1560
                  Open 60954 TMAC 2 869.0 60956 MCCOY  869.0 1                                0.42122  0.00208    12.0    11.2
3272   -411.8 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         254.9   240.0  0.03609          0.03530   241.7   227.1
                C:66506 FTTHOMP3 345 66571 GR ISLD3 345 1    3552
                  Open 66506 FTTHOMP3 345 66571 GR ISLD3 345 1                                0.03107  0.02536   425.1   414.7
3273   -411.2 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -17.6   -17.3 -0.00066         -0.00089   -19.8   -19.4
                C:62982 HUTCHMN7 115 62983 HUTCH3M7 115 1    2024
                  Open 62982 HUTCHMN7 115 62983 HUTCH3M7 115 1                               -0.05924 -0.00402   -37.6   -35.9
3274   -410.9 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -180.8  -167.0 -0.03350         -0.03350  -177.1  -163.3
                C:34256 WBGO   869.0 34257 WBGOJ N869.0 1     415
                  Open 34256 WBGO   869.0 34257 WBGOJ N869.0 1                               -0.24082  0.00000    15.3    15.3
3275   -410.3 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          66.1    60.0  0.01478          0.01629    65.0    58.3
                C:34110 HILLSIE5 161 34523 HILLSIEY 345 1     201
                  Open 34110 HILLSIE5 161 34523 HILLSIEY 345 1                               -0.04996  0.03010   -21.3   -33.6
3276   -410.3 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          66.1    60.0  0.01478          0.01629    65.0    58.3
                C:34523 HILLSIEY 345 64350 HILLS  3 345 1    2853
                  Open 34523 HILLSIEY 345 64350 HILLS  3 345 1                               -0.04996  0.03010   -21.3   -33.6
3277   -409.9 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          66.1    60.0  0.01478          0.01629    65.0    58.3
                C:34109 BERTRAM5 161 34110 HILLSIE5 161 1     199
                  Open 34109 BERTRAM5 161 34110 HILLSIE5 161 1                               -0.04996  0.03010   -21.2   -33.5
3280   -407.9 L:60107 W FARIB7 115 60265 LOON TP7 115 C1       -326.6  -310.0 -0.04066         -0.02017  -166.9  -158.7
                C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                  Open 60108 WILMART3 345 60192 BLUE LK3 345 1                               -0.18109  0.11317   881.7   835.6
3282   -406.8 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -84.3   -77.0 -0.01783         -0.01539   -75.2   -69.0
                C:34018 HAZLTON3 345 60102 ADAMS  3 345 1      56
                  Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                                0.01719 -0.14203  -525.7  -467.9
3283   -406.7 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -83.4   -77.0 -0.01579         -0.01539   -75.2   -69.0
                C:34068 M-TOWN 5 161 34528 M-TOWN Y 161 1     153
                  Open 34068 M-TOWN 5 161 34528 M-TOWN Y 161 1                                0.21214 -0.00190   -38.7   -37.9
3284   -406.7 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -83.4   -77.0 -0.01579         -0.01539   -75.2   -69.0
                C:34066 M-TOWN 7 115 34528 M-TOWN Y 161 1     147
                  Open 34066 M-TOWN 7 115 34528 M-TOWN Y 161 1                               -0.21214  0.00190    38.7    37.9
3286   -406.6 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -84.2   -77.0 -0.01783         -0.01539   -75.2   -69.0
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              C:825                                          3771
                Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                          -0.00002 -0.09714  -545.7  -506.2
                Open 34014 ADAMS  5 161 60102 ADAMS  3 345 1                          -0.00000  0.02245    -2.8   -12.0
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                           0.01720 -0.14203  -525.7  -468.0
3287   -405.4 L:60825 WABASHA869.0 61960 LAKECITY69.0 1         -36.1   -34.0 -0.00507         -0.00360   -15.3   -13.8
              C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          -0.02305  0.06362   901.3   875.5
3288   -404.1 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -180.8  -167.0 -0.03412         -0.03350  -177.1  -163.5
              C:700    2                                     3738
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.00556  0.04835   476.6   457.1
                Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                          -0.00673  0.05190   157.6   136.6
3289   -404.1 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -180.8  -167.0 -0.03412         -0.03350  -177.1  -163.5
              C:IVH-BLL/RRK3                                 3643
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.00556  0.04835   476.6   457.1
                Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                          -0.00673  0.05190   157.6   136.6
3292   -402.2 L:66594 J5ONAWA869.0 63886 SALIX 8 69.0 1         -43.5   -41.0 -0.00618         -0.00366   -26.3   -24.8
              C:66565 SIOUXCY4 230 66567 DENISON4 230 1    2520
                Open 66565 SIOUXCY4 230 66567 DENISON4 230 1                          -0.07128  0.03530   241.7   227.5
3293   -402.1 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          66.5    60.0  0.01629          0.01629    65.0    58.5
              C:34065 NEVADA 7 115 34070 NEVADAT7 115 1     143
                Open 34065 NEVADA 7 115 34070 NEVADAT7 115 1                           0.06011  0.00000    25.7    25.7
3294   -402.1 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          66.5    60.0  0.01629          0.01629    65.0    58.5
              C:34065 NEVADA 7 115 34161 NEVADA 934.5 1    2760
                Open 34065 NEVADA 7 115 34161 NEVADA 934.5 1                           0.06011  0.00000    25.7    25.7
3296   -401.2 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          66.5    60.0  0.01629          0.01629    65.0    58.5
              C:34051 TOLEDO 7 115 34154 TOLEDO 934.5 1    2745
                Open 34051 TOLEDO 7 115 34154 TOLEDO 934.5 1                           0.06609  0.00000    23.2    23.2
3297   -401.2 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          66.4    60.0  0.01597          0.01629    65.0    58.5
              C:34036 ROCK CK3 345 36382 QUAD ;   345 1    2734
                Open 34036 ROCK CK3 345 36382 QUAD ;   345 1                          -0.00579  0.05461  -242.5  -264.4
3298   -400.7 L:64256 UNIONTP5 161 64655 UNI MID869.0 1         101.7   100.0  0.00428          0.00392    99.8    98.2
              C:34068 M-TOWN 5 161 34079 TRAER  5 161 1     151
                Open 34068 M-TOWN 5 161 34079 TRAER  5 161 1                           0.01996  0.01809    96.2    88.9
3299   -398.3 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -180.6  -167.0 -0.03411         -0.03350  -177.1  -163.7
              C:34264 BRICLYN869.0 34265 WALTERS869.0 1     428
                Open 34264 BRICLYN869.0 34265 WALTERS869.0 1                          -0.21734  0.00281    16.1    15.0
3301   -396.9 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          66.5    60.0  0.01648          0.01629    65.0    58.5
              C:885                                          3780
                Open 69507 SENECA 5 161 69511 BELLCTR5 161 1                          -0.00308  0.00408   129.4   127.8
                Open 69507 SENECA 5 161 69523 GENOA  5 161 1                          -0.00681 -0.03083  -284.7  -272.5
3304   -394.2 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -323.7  -318.0 -0.01438         -0.01397  -311.5  -306.0
              C:60133 SHEYNNE4 230 63336 AUDUBON4 230 1    1013
                Open 60133 SHEYNNE4 230 63336 AUDUBON4 230 1                          -0.04793  0.00860   253.4   250.0
3305   -393.1 L:60107 W FARIB7 115 61952 S FARIB5 161 1         179.3   173.0  0.01596          0.01457   159.6   153.9
              C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.02178  0.06362   901.3   876.3
3306   -393.1 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         255.2   240.0  0.03867          0.03530   241.7   227.8
              C:825                                          3771
                Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                          -0.00569 -0.09714  -545.7  -507.5
                Open 34014 ADAMS  5 161 60102 ADAMS  3 345 1                           0.00000  0.02245    -2.8   -11.7
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                          -0.01986 -0.14203  -525.7  -469.9
3311   -392.5 L:34075 ELDORA 7 115 34077 IA FALS7 115 1         -65.5   -60.0 -0.01396         -0.01241   -60.2   -55.3
              C:34061 BNE JCT5 161 64205 FT.DODG5 161 1    2756
                Open 34061 BNE JCT5 161 64205 FT.DODG5 161 1                           0.04036 -0.03824  -130.3  -115.3
3312   -392.4 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -180.3  -167.0 -0.03398         -0.03350  -177.1  -163.9
              C:66565 SIOUXCY4 230 66567 DENISON4 230 1    2520
                Open 66565 SIOUXCY4 230 66567 DENISON4 230 1                          -0.01346  0.03530   241.7   227.8
3313   -392.2 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -180.2  -167.0 -0.03370         -0.03350  -177.1  -163.9
              C:60264 LOON LK7 115  6999 WTV1     115 1    2985
                Open 60264 LOON LK7 115  6999 WTV1     115 1                           0.03682 -0.00538   -85.3   -83.2
3314   -392.2 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -180.2  -167.0 -0.03370         -0.03350  -177.1  -163.9
              C:60264 LOON LK7 115 61976 LOON LK869.0 1    1274
                Open 60264 LOON LK7 115 61976 LOON LK869.0 1                          -0.03682  0.00538    85.3    83.2
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3315   -390.7 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -180.2  -167.0 -0.03369         -0.03350  -177.1  -164.0
              C:62980 MCLEOD 4 230 63054 PANTHER4 230 1    3394
                Open 62980 MCLEOD 4 230 63054 PANTHER4 230 1                          0.01116 -0.01700  -276.4  -269.8
3318   -385.7 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         254.0   240.0  0.03636          0.03530   241.7   228.0
              C:050    1                                   3715
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00610  0.06362   901.3   876.8
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.00964 -0.06704  -692.1  -666.3
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          0.00000 -0.00175    77.5    78.1
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                         -0.00564 -0.00300     0.0     1.2
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                         -0.00461 -0.00148   -42.6   -42.1
3319   -385.7 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         254.0   240.0  0.03631          0.03530   241.7   228.0
              C:ASK-RRK/ECL3                               3642
                Open 60186 AS KING3 345 60236 REDROCK3 345 1                          0.00086 -0.01969   140.3   147.9
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00649  0.06362   901.3   876.8
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.00922 -0.06704  -692.1  -666.3
3320   -384.3 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -180.0  -167.0 -0.03378         -0.03350  -177.1  -164.2
              C:39244 ARP 345  345 60304 EAU CL 3 345 1    2888
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          0.00420 -0.06704  -692.1  -666.3
3322   -382.7 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -323.5  -318.0 -0.01448         -0.01397  -311.5  -306.2
              C:63053 HUBBARD4 230 63336 AUDUBON4 230 1    3405
                Open 63053 HUBBARD4 230 63336 AUDUBON4 230 1                          0.05998 -0.00856  -200.4  -197.1
3324   -380.1 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          66.1    60.0  0.01595          0.01629    65.0    58.8
              C:34530 WELSBRGY 115 63734 WELSBRG869.0 1    2854
                Open 34530 WELSBRGY 115 63734 WELSBRG869.0 1                          0.05613 -0.00608    18.9    21.2
3325   -380.1 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          66.1    60.0  0.01595          0.01629    65.0    58.8
              C:34074 WELSBRG7 115 34169 WELSBGT7 115 1     158
                Open 34074 WELSBRG7 115 34169 WELSBGT7 115 1                         -0.05613  0.00608   -18.9   -21.2
3326   -380.1 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          66.1    60.0  0.01595          0.01629    65.0    58.8
              C:34074 WELSBRG7 115 34530 WELSBRGY 115 1     159
                Open 34074 WELSBRG7 115 34530 WELSBRGY 115 1                          0.05613 -0.00608    18.9    21.2
3327   -379.4 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -17.7   -17.3 -0.00099         -0.00089   -19.8   -19.5
              C:009   5                                    3699
                Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                          0.00622 -0.01568   349.1   355.0
                Open 60270 MPLEGV13 345 63030 DICKNSN3 345 1                          0.00010  0.00909  -455.8  -459.2
                Open 60233 PARKERS3 345 60270 MPLEGV13 345 1                         -0.00120  0.00000     2.6     2.6
3328   -377.6 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -179.7  -167.0 -0.03367         -0.03350  -177.1  -164.4
              C:795                                        3765
                Open 60150 MNVLTAP4 230 66550 GRANITF4 230 1                          0.00989 -0.01397  -311.5  -306.2
                Open 60148 MINVALY7 115 60149 MINVALT4 230 C1                        -0.01127  0.00290    18.2    17.1
                Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                         -0.01366  0.00000     0.0     0.0
                Open 60149 MINVALT4 230 60150 MNVLTAP4 230 1     NA
                Open 60742 PANTHER869.0 63054 PANTHER4 230 1                         -0.01618  0.00014   -40.1   -40.1
3329   -376.9 L:34423 MONONA_869.0 68748 POST    69.0 1         -47.0   -45.0 -0.00520         -0.00284   -27.3   -26.3
              C:34423 MONONA_869.0 34457 WAT TAP869.0 1     579
                Open 34423 MONONA_869.0 34457 WAT TAP869.0 1                          0.74689 -0.00316   -26.3   -25.1
3330   -375.9 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -17.7   -17.3 -0.00099         -0.00089   -19.8   -19.5
              C:PKL-DKN/ECK3                               3635
                Open 60233 PARKERS3 345 60270 MPLEGV13 345 1                          0.00010  0.00909  -453.1  -456.5
                Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                          0.00622 -0.01568   349.1   355.0
3331   -375.0 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         253.6   240.0  0.03631          0.03530   241.7   228.4
              C:050    2                                   3716
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00621  0.06362   901.3   877.5
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.00920 -0.06704  -692.1  -667.0
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          0.00000 -0.00175    77.5    78.1
3332   -373.6 L:34138 DUNDEE 869.0 34521 GRELYTP869.0 1           26.1    24.0  0.00556          0.00309    22.1    20.9
              C:34093 ARNOLD 3 345 64352 TIFFIN 3 345 1    2777
                Open 34093 ARNOLD 3 345 64352 TIFFIN 3 345 1                          0.01161  0.21292   346.7   267.2
3333   -372.5 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -179.5  -167.0 -0.03360         -0.03350  -177.1  -164.6
              C:61051 STCRFL5G 161 69565 APL RVR5 161 C1   3302
                Open 61051 STCRFL5G 161 69565 APL RVR5 161 C1                        -0.00999  0.01032   244.1   240.3
3334   -372.3 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -179.5  -167.0 -0.03359         -0.03350  -177.1  -164.6
              C:CNC-DKN/SHC3                               3634
                Open 60202 COON CK3 345 63030 DICKNSN3 345 1                          0.00431 -0.01742  -393.2  -386.7
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                Open 60202 COON CK3 345 60272 MPLEGV23 345 1                          0.00154 -0.00782  -475.5  -472.6
3335   -372.3 L:60107 W FARIB7 115 61952 S FARIB5 161 1         179.4   173.0  0.01726          0.01457   159.6   154.2
              C:60265 LOON TP7 115  6999 WTV1     115 1    2986
                Open 60265 LOON TP7 115  6999 WTV1     115 1                          0.49834  0.00538    39.7    37.7
3336   -371.7 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -179.7  -167.0 -0.03423         -0.03350  -177.1  -164.6
              C:60105 PR ISLD3 345 60192 BLUE LK3 345 1     948
                Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                          0.01844 -0.03964  -143.5  -128.8
3337   -371.2 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -179.5  -167.0 -0.03360         -0.03350  -177.1  -164.6
              C:61051 STCRFL5G 161 61131 LAW CRK5 161 C1   1652
                Open 61051 STCRFL5G 161 61131 LAW CRK5 161 C1                         0.00999 -0.01032  -239.9  -236.0
3338   -369.4 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -179.4  -167.0 -0.03359         -0.03350  -177.1  -164.7
              C:009   4                                    3698
                Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                         -0.00157  0.00782   479.8   476.9
                Open 60202 COON CK3 345 60272 MPLEGV23 345 1                         -0.00936  0.00000     4.2     4.2
                Open 60202 COON CK3 345 63030 DICKNSN3 345 1                          0.00436 -0.01742  -393.2  -386.8
                Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                          0.00054 -0.00156   331.6   332.2
                Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                         -0.00990  0.00000     0.1     0.1
                Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1     NA
3339   -368.7 L:62980 MCLEOD 4 230 63054 PANTHER4 230 1        -326.3  -319.0 -0.01967         -0.01700  -276.4  -270.1
              C:500                                        3718
                Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                          0.25907 -0.01028  -216.5  -212.8
                Open 62427 WILLMAR869.0 63050 WILLMAR4 230 1                         -0.16243  0.00004   -38.4   -38.4
3340   -368.5 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -179.4  -167.0 -0.03377         -0.03350  -177.1  -164.7
              C:022       4                                3705
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                         -0.00601  0.02476   409.3   400.2
                Open 60221 KOLMNLK3 345 60251 TERMINL3 345 1                          0.00551 -0.02267    47.8    56.1
                Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                          0.00133  0.00036   207.1   207.0
                Open 60251 TERMINL3 345 61492 TERMID1Y 345 1                         -0.00131 -0.00166   336.0   336.6
                Open 60252 TERMINL7 115 61492 TERMID1Y 345 1                         -0.01078  0.00000     0.2     0.2
                Open 61187 TERTER1934.5 61492 TERMID1Y 345 1     NA
3342   -366.9 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -179.4  -167.0 -0.03375         -0.03350  -177.1  -164.8
              C:34257 WBGOJ N869.0 34261 BL EART869.0 1     417
                Open 34257 WBGOJ N869.0 34261 BL EART869.0 1                         -0.14949  0.00166    15.4    14.8
3343   -366.2 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          66.0    60.0  0.01641          0.01629    65.0    59.0
              C:34203 GRINNEL869.0 34607 GRNCTTP869.0 1     330
                Open 34203 GRINNEL869.0 34607 GRNCTTP869.0 1                         -0.01926 -0.00625   -52.2   -49.9
3344   -366.1 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          66.1    60.0  0.01655          0.01629    65.0    59.0
              C:34014 ADAMS  5 161 34015 LIME CK5 161 1      42
                Open 34014 ADAMS  5 161 34015 LIME CK5 161 1                         -0.00918 -0.02813  -114.8  -104.5
3345   -365.9 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          66.0    60.0  0.01640          0.01629    65.0    59.0
              C:34182 WAPELLO5 161 34183 JEFF   5 161 1     292
                Open 34182 WAPELLO5 161 34183 JEFF   5 161 1                          0.00695  0.01653   143.8   137.7
3348   -365.5 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -179.3  -167.0 -0.03358         -0.03350  -177.1  -164.8
              C:60196 CHI    7 115 60920 LINDSTM7 115 C1   1140
                Open 60196 CHI    7 115 60920 LINDSTM7 115 C1                         -0.00844  0.00913   259.9   256.6
3349   -365.4 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         253.3   240.0  0.03645          0.03530   241.7   228.8
              C:PRI-BYN/RRK3                               3646
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                          0.01515  0.07639   767.2   739.3
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                          0.00025 -0.01725   152.8   159.1
3350   -364.7 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -179.2  -167.0 -0.03358         -0.03350  -177.1  -164.9
              C:CHI-WYO/LIN7                               3650
                Open 60196 CHI    7 115 60345 WYOMING7 115 1                          0.00026 -0.00191    63.9    64.6
                Open 60196 CHI    7 115 60920 LINDSTM7 115 C1                         -0.00840  0.00913   259.9   256.6
3351   -363.3 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -179.3  -167.0 -0.03375         -0.03350  -177.1  -164.9
              C:34261 BL EART869.0 34307 B EART869.0 1     422
                Open 34261 BL EART869.0 34307 B EART869.0 1                         -0.14949  0.00166    14.6    14.0
3352   -363.1 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -179.2  -167.0 -0.03365         -0.03350  -177.1  -164.9
              C:60189 BLK DOG4 230 60190 BLK DOG7 115 C1   1120
                Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                         -0.01113  0.01298   192.3   187.6
3353   -363.1 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -179.2  -167.0 -0.03365         -0.03350  -177.1  -164.9
              C:810   C1                                   3767
                Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                          0.01113 -0.01298  -192.3  -187.6
                Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                         -0.01136  0.00000    -0.0    -0.0
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3354   -363.1 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -179.2  -167.0 -0.03365         -0.03350  -177.1  -164.9
               C:60189 BLK DOG4 230 62980 MCLEOD 4 230 1    1121
                 Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                          0.01113 -0.01298  -192.3  -187.6
3355   -362.9 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -178.7  -167.0 -0.03224         -0.03350  -177.1  -164.9
               C:63032 PL VLLY3 345 63070 PL VLLY5 161 1    3402
                 Open 63032 PL VLLY3 345 63070 PL VLLY5 161 1                         -0.10059 -0.01250    16.1    20.7
3356   -362.7 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -178.7  -167.0 -0.03224         -0.03350  -177.1  -164.9
               C:61984 AUSTIN 5 161 63070 PL VLLY5 161 1    3377
                 Open 61984 AUSTIN 5 161 63070 PL VLLY5 161 1                          0.10059  0.01250   -16.1   -20.6
3357   -362.6 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         253.2   240.0  0.03645          0.03530   241.7   228.9
               C:60105 PR ISLD3 345 61950 BYRON  3 345 1     951
                 Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                          0.01507  0.07639   767.2   739.5
3358   -362.1 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -179.2  -167.0 -0.03375         -0.03350  -177.1  -164.9
               C:34263 ELMORE 869.0 34307 B EARTT869.0 1     427
                 Open 34263 ELMORE 869.0 34307 B EARTT869.0 1                          0.14949 -0.00166   -14.3   -13.7
3359   -361.7 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -179.1  -167.0 -0.03358         -0.03350  -177.1  -165.0
               C:60920 LINDSTM7 115 62276 SHAFER 7 115 C1   3210
                 Open 60920 LINDSTM7 115 62276 SHAFER 7 115 C1                        -0.00844  0.00913   244.7   241.4
3360   -361.0 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          14.1    13.7  0.00103          0.00089    11.3    11.0
               C:63050 WILLMAR4 230 66550 GRANITF4 230 1    2051
                 Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                         -0.01287 -0.01028  -216.5  -212.8
3362   -360.6 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -179.1  -167.0 -0.03358         -0.03350  -177.1  -165.0
               C:61128 LAW CRK7 115 62276 SHAFER 7 115 C1   3339
                 Open 61128 LAW CRK7 115 62276 SHAFER 7 115 C1                         0.00844 -0.00913  -240.5  -237.2
3366   -359.4 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -179.1  -167.0 -0.03375         -0.03350  -177.1  -165.0
               C:KOL-CNC/TER3                               3639
                 Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                         -0.00559  0.02476   409.3   400.4
                 Open 60221 KOLMNLK3 345 60251 TERMINL3 345 1                          0.00495 -0.02267    47.8    55.9
3367   -358.7 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -179.1  -167.0 -0.03360         -0.03350  -177.1  -165.1
               C:60150 MNVLTAP4 230 63054 PANTHER4 230 1    2952
                 Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                         -0.00599  0.01687   329.7   323.6
3368   -358.3 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         253.8   240.0  0.03859          0.03530   241.7   229.0
               C:34018 HAZLTON3 345 60102 ADAMS  3 345 1      56
                 Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                         -0.02316 -0.14203  -525.7  -474.8
3369   -357.8 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -179.0  -167.0 -0.03350         -0.03350  -177.1  -165.1
               C:60122 LAWRENC7 115 60834 LAWRENC869.0 1     992
                 Open 60122 LAWRENC7 115 60834 LAWRENC869.0 1                         -0.03048  0.00000    62.7    62.7
3370   -357.7 L:34073 GR JCT 7 115 34529 GRJCT5Y  161 1         -54.0   -50.0 -0.01112         -0.00401   -29.8   -28.3
               C:34061 BNE JCT5 161 64205 FT.DODG5 161 1    2756
                 Open 34061 BNE JCT5 161 64205 FT.DODG5 161 1                          0.18578 -0.03824  -130.3  -116.6
3371   -357.7 L:34054 GR JCT 5 161 34529 GRJCT5Y  161 1          54.0    50.0  0.01112          0.00401    29.8    28.3
               C:34061 BNE JCT5 161 64205 FT.DODG5 161 1    2756
                 Open 34061 BNE JCT5 161 64205 FT.DODG5 161 1                         -0.18578 -0.03824  -130.3  -116.6
3372   -356.3 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -179.1  -167.0 -0.03398         -0.03350  -177.1  -165.1
               C:66561 DENISON5 161 66567 DENISON4 230 1    2513
                 Open 66561 DENISON5 161 66567 DENISON4 230 1                          0.01455 -0.03279  -139.3  -127.7
3373   -354.1 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -178.9  -167.0 -0.03350         -0.03350  -177.1  -165.2
               C:34017 CGORDO_5 161 34414 CGORDO1G24.9 1    2724
                 Open 34017 CGORDO_5 161 34414 CGORDO1G24.9 1                          0.03573  0.00000   -50.0   -50.0
3374   -353.9 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -179.0  -167.0 -0.03398         -0.03350  -177.1  -165.2
               C:34047 ANTA TP5 161 66561 DENISON5 161 1     109
                 Open 34047 ANTA TP5 161 66561 DENISON5 161 1                          0.01455 -0.03279  -133.8  -122.2
3375   -353.3 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -178.9  -167.0 -0.03375         -0.03350  -177.1  -165.2
               C:34263 ELMORE 869.0 34270 LAKOTCB869.0 1     426
                 Open 34263 ELMORE 869.0 34270 LAKOTCB869.0 1                         -0.14949  0.00166    12.3    11.8
3376   -353.3 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -178.9  -167.0 -0.03360         -0.03350  -177.1  -165.2
               C:500                                        3718
                 Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                          0.00983 -0.01028  -216.5  -212.9
                 Open 62427 WILLMAR869.0 63050 WILLMAR4 230 1                         -0.00871  0.00004   -38.4   -38.4
3377   -353.0 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -178.9  -167.0 -0.03358         -0.03350  -177.1  -165.3
               C:715       2                                3746
                 Open 60243 SCOTTAP7 115 62666 GLNDALE7 115 1                         -0.01532  0.00356    48.9    47.7
                 Open 60242 SAVAGE 7 115 62668 EGLCKTP7 115 1     NA
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                Open 62666 GLNDALE7 115 62672 GLNDALE869.0 1                          0.00045  0.00008    25.1    25.0
                Open 60243 SCOTTAP7 115 60244 SCOTTCO7 115 1                         -0.01197  0.00158    24.8    24.2
                Open 60194 CARVRCO7 115 60243 SCOTTAP7 115 1                         -0.02620  0.00000     1.5     1.5
                Open 60194 CARVRCO7 115 60931 CARVRCO869.0 1                         -0.00218 -0.00021    19.7    19.8
                Open 60190 BLK DOG7 115 60242 SAVAGE 7 115 1                          0.00215 -0.00055    29.6    29.8
                Open 62668 EGLCKTP7 115 62975 SHAKOPE7 115 1     NA
                Open 60244 SCOTTCO7 115 62975 SHAKOPE7 115 1                         -0.01423  0.00000    55.2    55.2
                Open 60244 SCOTTCO7 115 60890 SCOTTCO869.0 2                          0.00269 -0.00079    23.8    24.1
3378   -352.4 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -180.3  -167.0 -0.03783         -0.03350  -177.1  -165.3
              C:34139 HANCOCK5 161 63716 BURT   5 161 1    2806
                Open 34139 HANCOCK5 161 63716 BURT   5 161 1                            0.05935 -0.07289   -54.8   -29.1
3379   -352.3 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -58.8   -58.0 -0.00240         -0.00273   -59.9   -59.0
              C:34200 CNTRVIL869.0 34624 NUMATAP869.0 1     326
                Open 34200 CNTRVIL869.0 34624 NUMATAP869.0 1                         -0.09717 -0.00339   -11.3   -10.1
3380   -352.0 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -180.6  -167.0 -0.03864         -0.03350  -177.1  -165.3
              C:34016 EMERY  5 161 34017 CGORDO_5 161 1      49
                Open 34016 EMERY  5 161 34017 CGORDO_5 161 1                          0.06741 -0.07625   -52.3   -25.5
3381   -351.8 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -178.9  -167.0 -0.03370         -0.03350  -177.1  -165.3
              C:60110 WILMART7 115 60830 EASTWD18 115 P1    968
                Open 60110 WILMART7 115 60830 EASTWD18 115 P1                        -0.01298  0.01502   136.8   131.6
3382   -351.1 L:60788 VALLYTP869.0 60789 CIRCLTP869.0 1         -48.8   -48.0 -0.00216
                Base Case
3383   -351.0 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -178.8  -167.0 -0.03375         -0.03350  -177.1  -165.3
              C:34270 LAKOTCB869.0 34362 LAKOTA_869.0 1     436
                Open 34270 LAKOTCB869.0 34362 LAKOTA_869.0 1                         -0.14949  0.00166    11.8    11.2
3384   -350.4 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -178.8  -167.0 -0.03360         -0.03350  -177.1  -165.3
              C:60156 PYNSVIL7 115 60356 PAYNES 4 230 C1   1069
                Open 60156 PYNSVIL7 115 60356 PAYNES 4 230 C1                         0.00965 -0.01032  -175.7  -172.1
3385   -350.4 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -178.8  -167.0 -0.03360         -0.03350  -177.1  -165.3
              C:60356 PAYNES 4 230 63050 WILLMAR4 230 C1   1365
                Open 60356 PAYNES 4 230 63050 WILLMAR4 230 C1                         0.00965 -0.01032  -175.7  -172.1
3386   -349.0 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -58.8   -58.0 -0.00240         -0.00273   -59.9   -59.0
              C:34624 NUMATAP869.0 34633 PROMISE869.0 1     724
                Open 34624 NUMATAP869.0 34633 PROMISE869.0 1                         -0.09717 -0.00339   -11.4   -10.2
3388   -348.7 L:64256 UNIONTP5 161 64655 UNI MID869.0 1         101.5   100.0  0.00436          0.00392    99.8    98.4
              C:34075 ELDORA 7 115 34169 WELSBGT7 115 1     161
                Open 34075 ELDORA 7 115 34169 WELSBGT7 115 1                          0.03510  0.01241    49.1    44.8
3389   -348.3 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -178.7  -167.0 -0.03357         -0.03350  -177.1  -165.4
              C:60202 COON CK3 345 63030 DICKNSN3 345 1    1157
                Open 60202 COON CK3 345 63030 DICKNSN3 345 1                          0.00411 -0.01742  -393.2  -387.1
3390   -346.9*L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -178.6  -167.0 -0.03350         -0.03350  -177.1  -165.5
              C:34256 WBGO   869.0 34278 WILWCKT869.0 1     416
                Open 34256 WBGO   869.0 34278 WILWCKT869.0 1                         -0.24082  0.00000     6.4     6.4
3396   -346.1 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -58.8   -58.0 -0.00240         -0.00273   -59.9   -59.0
              C:34633 PROMISE869.0 34634 HRVRDTP869.0 1     733
                Open 34633 PROMISE869.0 34634 HRVRDTP869.0 1                         -0.09717 -0.00339   -11.5   -10.3
3407   -343.2 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -212.8  -200.0 -0.03740         -0.03224  -197.2  -186.2
              C:LAKF-FOX DBL                              3781
                Open 34007 LAKEFLD5 161 34008 FOX LK 5 161 1                         -0.09582  0.02660    78.8    69.7
                Open 34007 LAKEFLD5 161 34008 FOX LK 5 161 2                         -0.09582  0.02728    84.2    74.8
3414   -341.1 L:64256 UNIONTP5 161 64655 UNI MID869.0 1         101.3   100.0  0.00392          0.00392    99.8    98.5
              C:34090 ARNOLD1G22.0 34091 ARNOLD 5 161 1    2774
                Open 34090 ARNOLD1G22.0 34091 ARNOLD 5 161 1                         -0.00418  0.00000  -369.0  -369.0
3415   -340.9 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -58.8   -58.0 -0.00240         -0.00273   -59.9   -59.0
              C:34175 CORYDON869.0 34634 HRVRDTP869.0 1     276
                Open 34175 CORYDON869.0 34634 HRVRDTP869.0 1                          0.09717  0.00339    11.6    10.4
3418   -339.5 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -83.3   -77.0 -0.01845         -0.01539   -75.2   -70.0
              C:34085 BLRSTWN7 115 34099 PRAR CK7 115 1     175
                Open 34085 BLRSTWN7 115 34099 PRAR CK7 115 1                         -0.18806  0.01629    42.8    37.3
3424   -337.6 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         252.7   240.0  0.03772          0.03530   241.7   229.7
              C:64994 TWIN CH4 230 66565 SIOUXCY4 230 1    3491
                Open 64994 TWIN CH4 230 66565 SIOUXCY4 230 1                         -0.05714 -0.04240  -193.9  -179.6
3427   -337.2 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -83.8   -77.0 -0.02003         -0.01539   -75.2   -70.0
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              C:34018 HAZLTON3 345 34093 ARNOLD 3 345 1      55
                Open 34018 HAZLTON3 345 34093 ARNOLD 3 345 1                          -0.02561  0.18131   333.4   272.3
3434   -335.1 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          37.2    36.0  0.00351          0.00284    33.0    32.1
              C:61934 RUTLAND 69.0 61942 10TH STR69.0 1    1692
                Open 61934 RUTLAND 69.0 61942 10TH STR69.0 1                          -0.17463 -0.00381   -23.7   -22.4
3435   -334.5 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         252.3   240.0  0.03666          0.03530   241.7   229.8
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                           0.01203  0.11317   881.7   843.9
3447   -332.5 L:34129 LIBERTY5 161 34135 DUNDEE 5 161 1        -176.4  -167.0 -0.02815         -0.02387  -143.2  -135.3
              C:885                                        3780
                Open 69507 SENECA 5 161 69511 BELLCTR5 161 1                           0.06916  0.00408   129.4   128.0
                Open 69507 SENECA 5 161 69523 GENOA  5 161 1                           0.14785 -0.03083  -284.7  -274.5
3448   -332.3 L:34059 BOONE  7 115 34073 GR JCT 7 115 1         -53.7   -50.0 -0.01112         -0.00401   -29.5   -28.2
              C:34061 BNE JCT5 161 64205 FT.DODG5 161 1    2756
                Open 34061 BNE JCT5 161 64205 FT.DODG5 161 1                           0.18578 -0.03824  -130.3  -117.6
3453   -329.9 L:34285 ALDEN J869.0 34286 ALEAWST869.0 1          46.3    44.0  0.00704          0.00555    34.7    32.8
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                           0.01321  0.11317   881.7   844.4
3454   -328.7 L:60823 REDWING869.0 60824 FRONTNC869.0 1          49.4    48.0  0.00429          0.00360    36.5    35.3
              C:ASK-RRK/ECL3                               3642
                Open 60186 AS KING3 345 60236 REDROCK3 345 1                          -0.00417 -0.01969   140.3   146.8
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.02961  0.06362   901.3   880.4
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.01906 -0.06704  -692.1  -670.1
3456   -328.4 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          37.2    36.0  0.00351          0.00284    33.0    32.1
              C:34012 FOXLAKE869.0 34275 WELCOMT869.0 1      39
                Open 34012 FOXLAKE869.0 34275 WELCOMT869.0 1                           0.17463  0.00381    23.5    22.3
3458   -327.8 L:62935 MAPLELK869.0 63024 MAPLE 1G69.0 1          24.6    24.3  0.00088          0.00098    12.4    12.1
              C:62138 BRGGLKS869.0 62139 CABLETP869.0 1    1783
                Open 62138 BRGGLKS869.0 62139 CABLETP869.0 1                          -0.43700  0.00024   -27.8   -27.9
3459   -326.6 L:62944 GOOSETP869.0 63024 MAPLE 1G69.0 1         -24.6   -24.3 -0.00088         -0.00098   -12.4   -12.1
              C:62138 BRGGLKS869.0 62139 CABLETP869.0 1    1783
                Open 62138 BRGGLKS869.0 62139 CABLETP869.0 1                           0.43700  0.00024   -27.8   -27.9
3460   -324.5 L:62980 MCLEOD 4 230 63054 PANTHER4 230 1        -327.8  -319.0 -0.02723         -0.01700  -276.4  -270.9
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                           0.07322 -0.13973  -702.5  -657.2
3466   -321.1 L:60945 NSPGENO869.0 68810 GENOA   69.0 1         -47.8   -47.0 -0.00238         -0.00095   -29.7   -29.4
              C:885                                        3780
                Open 69507 SENECA 5 161 69511 BELLCTR5 161 1                          -0.05258  0.00408   129.4   128.1
                Open 69507 SENECA 5 161 69523 GENOA  5 161 1                           0.03942 -0.03083  -284.7  -274.8
3467   -318.8 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -17.6   -17.3 -0.00099         -0.00089   -19.8   -19.5
              C:60114 ELM CRK3 345 60233 PARKERS3 345 1     975
                Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                           0.00625 -0.01568   349.1   354.1
3468   -315.1 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -81.8   -77.0 -0.01539         -0.01539   -75.2   -70.4
              C:34098 PR CRK4G18.0 34099 PRAR CK7 115 1    2782
                Open 34098 PR CRK4G18.0 34099 PRAR CK7 115 1                           0.05025  0.00000  -132.0  -132.0
3469   -310.6 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          91.9    90.0  0.00610          0.00647    89.3    87.2
              C:34188 OTTUMWA3 345 64095 MNTZUMA3 345 1    2819
                Open 34188 OTTUMWA3 345 64095 MNTZUMA3 345 1                          -0.04553  0.00818   -58.0   -60.6
3470   -310.5 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          91.9    90.0  0.00610          0.00647    89.3    87.2
              C:34188 OTTUMWA3 345 34557 OTTUMWAY 345 1     308
                Open 34188 OTTUMWA3 345 34557 OTTUMWAY 345 1                           0.04553 -0.00818    58.0    60.6
3471   -310.5 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          91.9    90.0  0.00610          0.00647    89.3    87.2
              C:34189 OTTUMWA5 161 34557 OTTUMWAY 345 1     311
                Open 34189 OTTUMWA5 161 34557 OTTUMWAY 345 1                          -0.04553  0.00818   -58.0   -60.6
3474   -307.2 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          65.0    60.0  0.01629
                Base Case
3475   -306.6 L:34075 ELDORA 7 115 34077 IA FALS7 115 1         -63.9   -60.0 -0.01275         -0.01241   -60.2   -56.4
              C:050    1                                   3715
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          -0.00079  0.06362   901.3   881.8
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.00412 -0.06704  -692.1  -671.6
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          -0.00000 -0.00175    77.5    78.0
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                           0.00358 -0.00300     0.0     0.9
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                           0.00303 -0.00148   -42.6   -42.2
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3476   -305.1 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -58.8   -58.0 -0.00273         -0.00273   -59.9   -59.1
              C:67118 LARAM31G24.0 67131 LARAMIE3 345 1    3592
                Open 67118 LARAM31G24.0 67131 LARAMIE3 345 1                          -0.00234  0.00000  -475.0  -475.0
3478   -303.0 L:60107 W FARIB7 115 61952 S FARIB5 161 1         177.7   173.0  0.01561          0.01457   159.6   155.2
              C:ASK-RRK/ECL3                               3642
                Open 60186 AS KING3 345 60236 REDROCK3 345 1                           0.00274 -0.01969   140.3   146.3
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.02637  0.06362   901.3   882.0
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.00877 -0.06704  -692.1  -671.8
3479   -302.5 L:34129 LIBERTY5 161 34135 DUNDEE 5 161 1        -180.3  -167.0 -0.04406         -0.02387  -143.2  -136.0
              C:34018 HAZLTON3 345 34093 ARNOLD 3 345 1      55
                Open 34018 HAZLTON3 345 34093 ARNOLD 3 345 1                          -0.11131  0.18131   333.4   278.6
3480   -301.3 L:34061 BNE JCT5 161 34076 BNE JCT7 115 2          62.6    60.0  0.00853          0.00666    48.7    46.6
              C:34073 GR JCT 7 115 34529 GRJCT5Y  161 1     157
                Open 34073 GR JCT 7 115 34529 GRJCT5Y  161 1                          -0.46756 -0.00401   -29.8   -28.6
3481   -301.3 L:34061 BNE JCT5 161 34076 BNE JCT7 115 2          62.6    60.0  0.00853          0.00666    48.7    46.6
              C:34054 GR JCT 5 161 34529 GRJCT5Y  161 1     122
                Open 34054 GR JCT 5 161 34529 GRJCT5Y  161 1                           0.46756  0.00401    29.8    28.6
3482   -300.8 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         252.5   240.0  0.04157          0.03530   241.7   231.0
              C:63889 PLYMOTH5 161 66566 SIOUXCY5 161 1    3468
                Open 63889 PLYMOTH5 161 66566 SIOUXCY5 161 1                          -0.05790 -0.10825  -187.4  -154.8
3484   -300.8 L:34010 HAYWARD5 161 34013 WNBAGOS5 161 1        -177.1  -167.0 -0.03350
                Base Case
3485   -300.6 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          81.8    80.0  0.00593
                Base Case
3486   -300.3 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -48.7   -48.0 -0.00238         -0.00216   -53.9   -53.2
              C:61948 BYRON  5 161 61950 BYRON  3 345 1    1695
                Open 61948 BYRON  5 161 61950 BYRON  3 345 1                          -0.02779  0.00825  -185.7  -188.2
3487   -299.0 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         250.8   240.0  0.03619          0.03530   241.7   231.1
              C:050    3                                   3717
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.01294 -0.06704  -692.1  -672.1
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                          -0.00615 -0.00300     0.0     0.9
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                          -0.00497 -0.00148   -42.6   -42.2
3488   -298.2 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         250.7   240.0  0.03594          0.03530   241.7   231.1
              C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.01005  0.06362   901.3   882.3
3489   -296.9 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -81.6   -77.0 -0.01543         -0.01539   -75.2   -70.6
              C:34091 ARNOLD 5 161 34105 HIAWATA5 161 1     178
                Open 34091 ARNOLD 5 161 34105 HIAWATA5 161 1                          -0.03709  0.00122   171.6   171.3
3491   -290.0 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -322.1  -318.0 -0.01427         -0.01397  -311.5  -307.5
              C:60148 MINVALY7 115 61954 REDFLST7 115 P1   1053
                Open 60148 MINVALY7 115 61954 REDFLST7 115 P1                         -0.11837  0.00255    89.7    88.9
3492   -287.8 L:34022 LANSING5 161 34023 LANSING869.0 1          76.6    75.0  0.00569          0.00314    57.1    56.2
              C:34022 LANSING5 161 69531 POSTVIL5 161 1    2731
                Open 34022 LANSING5 161 69531 POSTVIL5 161 1                           0.26769  0.00950    72.9    70.1
3493   -287.3 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         250.5   240.0  0.03662          0.03530   241.7   231.5
              C:61950 BYRON  3 345 63032 PL VLLY3 345 1    3375
                Open 61950 BYRON  3 345 63032 PL VLLY3 345 1                           0.01562  0.08464   567.6   543.3
3494   -286.6 L:34075 ELDORA 7 115 34077 IA FALS7 115 1         -63.6   -60.0 -0.01272         -0.01241   -60.2   -56.7
              C:050    2                                   3716
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          -0.00086  0.06362   901.3   883.1
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.00384 -0.06704  -692.1  -672.9
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          -0.00000 -0.00175    77.5    78.0
3495   -286.6 L:60938 FTRIDGL869.0 62077 SCHLTP 869.0 1          37.6    37.0  0.00196          0.00152    29.1    28.6
              C:60727 FARFXNU869.0 60728 FRANKLN869.0 1    3093
                Open 60727 FARFXNU869.0 60728 FRANKLN869.0 1                          -0.40947 -0.00106   -20.8   -20.5
3496   -285.8 L:34061 BNE JCT5 161 34076 BNE JCT7 115 2          62.4    60.0  0.00853          0.00666    48.7    46.7
              C:34059 BOONE  7 115 34073 GR JCT 7 115 1     132
                Open 34059 BOONE  7 115 34073 GR JCT 7 115 1                          -0.46756 -0.00401   -29.5   -28.3
3497   -285.7 L:64256 UNIONTP5 161 64655 UNI MID869.0 1         101.2   100.0  0.00420          0.00392    99.8    98.7
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                          -0.00200 -0.13973  -702.5  -662.6
3498   -285.6 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         250.3   240.0  0.03614          0.03530   241.7   231.6
              C:39244 ARP 345  345 60304 EAU CL 3 345 1    2888
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                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.01252 -0.06704  -692.1  -673.0
3499   -285.0 L:34051 TOLEDO 7 115 34083 BL.PLN.7 115 1          64.3    59.0  0.01845          0.01539    52.0    47.6
               C:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1     145
                Open 34066 M-TOWN 7 115 34085 BLRSTWN7 115 1                           0.18806  0.01629    65.0    60.4
3500   -282.4 L:34051 TOLEDO 7 115 34083 BL.PLN.7 115 1          64.2    59.0  0.01832          0.01539    52.0    47.7
               C:34079 TRAER  5 161 34087 DYSART 5 161 1     163
                Open 34079 TRAER  5 161 34087 DYSART 5 161 1                           0.11498  0.02549   105.6    98.4
3501   -279.2 L:34138 DUNDEE 869.0 34521 GRELYTP869.0 1          24.9    24.0  0.00336          0.00309    22.1    21.2
               C:050    1                                   3715
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.00066  0.06362   901.3   883.5
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.00330 -0.06704  -692.1  -673.4
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                           0.00000 -0.00175    77.5    78.0
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                          -0.00186 -0.00300     0.0     0.8
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                          -0.00029 -0.00148   -42.6   -42.2
3502   -276.6 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -208.9  -200.0 -0.03224         -0.03224  -197.2  -188.3
               C:60108 WILMART3 345  8001 G261-ST 19.5 1    2938
                Open 60108 WILMART3 345  8001 G261-ST 19.5 1                           0.03589  0.00000  -326.0  -326.0
3503   -275.9 L:34075 ELDORA 7 115 34077 IA FALS7 115 1         -63.5   -60.0 -0.01272         -0.01241   -60.2   -56.8
               C:ASK-RRK/ECL3                              3642
                Open 60186 AS KING3 345 60236 REDROCK3 345 1                           0.00030 -0.01969   140.3   145.7
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          -0.00075  0.06362   901.3   883.8
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.00384 -0.06704  -692.1  -673.6
3504   -275.1 L:34075 ELDORA 7 115 34077 IA FALS7 115 1         -63.8   -60.0 -0.01386         -0.01241   -60.2   -56.8
               C:34052 AMES   7 115 34076 BNE JCT7 115 1     117
                Open 34052 AMES   7 115 34076 BNE JCT7 115 1                           0.09627 -0.01508   -37.4   -33.2
3505   -274.5 L:34075 ELDORA 7 115 34077 IA FALS7 115 1         -63.5   -60.0 -0.01273         -0.01241   -60.2   -56.8
               C:050    3                                   3717
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.00455 -0.06704  -692.1  -673.7
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                           0.00364 -0.00300     0.0     0.8
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                           0.00308 -0.00148   -42.6   -42.2
3506   -271.6 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -322.0  -318.0 -0.01479         -0.01397  -311.5  -307.7
               C:60148 MINVALY7 115 60171 LYON CO7 115 1    1049
                Open 60148 MINVALY7 115 60171 LYON CO7 115 1                           0.12281 -0.00670   -85.5   -83.6
3508   -270.6 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          91.5    90.0  0.00542          0.00647    89.3    87.5
               C:34174 EICTAP 5 161 64096 BEACON 5 161 1    2812
                Open 34174 EICTAP 5 161 64096 BEACON 5 161 1                           0.05171 -0.02033    42.8    48.3
3514   -269.1 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -208.8  -200.0 -0.03277         -0.03224  -197.2  -188.5
               C:34384 MCARMOR869.0 34396 EMERY N869.0 1     539
                Open 34384 MCARMOR869.0 34396 EMERY N869.0 1                           0.26627 -0.00199   -43.6   -43.0
3516   -268.8 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -321.9  -318.0 -0.01454         -0.01397  -311.5  -307.8
               C:63327 HANKSON4 230 63329 WAHPETN4 230 1    2190
                Open 63327 HANKSON4 230 63329 WAHPETN4 230 1                          -0.05286  0.01074   196.5   193.6
3519   -267.9 L:60805 WATRVIL869.0 62679 ELYSNTP869.0 1         -38.4   -37.0 -0.00506         -0.00315   -22.5   -21.6
               C:60107 W FARIB7 115 60265 LOON TP7 115 C1    952
                Open 60107 W FARIB7 115 60265 LOON TP7 115 C1                          0.09506 -0.02017  -166.9  -161.5
3533   -263.5 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -58.7   -58.0 -0.00256         -0.00273   -59.9   -59.2
               C:34177 APANOSE869.0 34200 CNTRVIL869.0 1     280
                Open 34177 APANOSE869.0 34200 CNTRVIL869.0 1                          -0.04998 -0.00340   -25.4   -24.5
3534   -262.8 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         249.6   240.0  0.03640          0.03530   241.7   232.4
               C:63886 SALIX 8 69.0 66594 J5ONAWA869.0 1    3467
                Open 63886 SALIX 8 69.0 66594 J5ONAWA869.0 1                           0.30138  0.00366    26.3    25.3
3545   -260.7 L:34138 DUNDEE 869.0 34521 GRELYTP869.0 1          24.9    24.0  0.00335          0.00309    22.1    21.2
               C:050    2                                   3716
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.00068  0.06362   901.3   884.7
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.00319 -0.06704  -692.1  -674.6
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                           0.00000 -0.00175    77.5    77.9
3549   -259.0 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -321.7  -318.0 -0.01423         -0.01397  -311.5  -307.9
               C:60148 MINVALY7 115 66551 GRANITF7 115 1    1054
                Open 60148 MINVALY7 115 66551 GRANITF7 115 1                           0.38140 -0.00069   -26.6   -26.5
3552   -257.6 L:60825 WABASHA869.0 61960 LAKECITY69.0 1         -35.4   -34.0 -0.00561         -0.00360   -15.3   -14.3
               C:60105 PR ISLD3 345 61950 BYRON  3 345 1     951
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                          -0.02629  0.07639   767.2   747.5
3553   -255.2 L:64256 UNIONTP5 161 64655 UNI MID869.0 1         101.3   100.0  0.00527          0.00392    99.8    98.8
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              C:34019 HAZLTON5 161 64250 BLKHAWK5 161 1    2725
                Open 34019 HAZLTON5 161 64250 BLKHAWK5 161 1                          -0.03344 -0.04036   -46.3   -36.0
3557   -253.1 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -58.7   -58.0 -0.00258         -0.00273   -59.9   -59.3
              C:34182 WAPELLO5 161 34183 JEFF   5 161 1     292
                Open 34182 WAPELLO5 161 34183 JEFF   5 161 1                           0.00898  0.01653   143.8   139.6
3558   -253.1 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          91.8    90.0  0.00708          0.00647    89.3    87.6
              C:34179 JASPER 5 161 64189 NEANKNY5 161 1    2816
                Open 34179 JASPER 5 161 64189 NEANKNY5 161 1                          -0.02909 -0.02084   -87.3   -82.0
3560   -251.4 L:34075 ELDORA 7 115 34077 IA FALS7 115 1         -63.2   -60.0 -0.01270         -0.01241   -60.2   -57.1
              C:39244 ARP 345  345 60304 EAU CL 3 345 1    2888
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.00430 -0.06704  -692.1  -675.3
3561   -248.5 L:64256 UNIONTP5 161 64655 UNI MID869.0 1         101.0   100.0  0.00404          0.00392    99.8    98.8
              C:PRI-BYN/RRK3                               3646
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                           0.00157  0.07639   767.2   748.2
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                           0.00002 -0.01725   152.8   157.1
3562   -248.4 L:34129 LIBERTY5 161 34135 DUNDEE 5 161 1        -178.3  -167.0 -0.04541         -0.02387  -143.2  -137.3
              C:34093 ARNOLD 3 345 64352 TIFFIN 3 345 1    2777
                Open 34093 ARNOLD 3 345 64352 TIFFIN 3 345 1                          -0.10115  0.21292   346.7   293.8
3565   -248.0 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -80.8   -77.0 -0.01531         -0.01539   -75.2   -71.4
              C:34067 6 ST   5 161 34091 ARNOLD 5 161 1     148
                Open 34067 6 ST   5 161 34091 ARNOLD 5 161 1                           0.06262  0.00119   -89.2   -89.4
3566   -248.0 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -80.8   -77.0 -0.01531         -0.01539   -75.2   -71.4
              C:34067 6 ST   5 161 34527 6 ST   Y 161 1     149
                Open 34067 6 ST   5 161 34527 6 ST   Y 161 1                          -0.06262 -0.00119    89.2    89.4
3567   -248.0 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -80.8   -77.0 -0.01531         -0.01539   -75.2   -71.4
              C:34097 6 ST   7 115 34527 6 ST   Y 161 1     185
                Open 34097 6 ST   7 115 34527 6 ST   Y 161 1                           0.06262  0.00119   -89.2   -89.4
3568   -247.8 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.9    60.0  0.01592          0.01629    65.0    61.0
              C:34054 GR JCT 5 161 34058 PERRY  5 161 1     120
                Open 34054 GR JCT 5 161 34058 PERRY  5 161 1                          -0.01006  0.03623   105.0    96.0
3578   -246.3 L:64256 UNIONTP5 161 64655 UNI MID869.0 1         101.0   100.0  0.00404          0.00392    99.8    98.8
              C:60105 PR ISLD3 345 61950 BYRON  3 345 1     951
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                           0.00156  0.07639   767.2   748.4
3579   -245.7 L:34075 ELDORA 7 115 34077 IA FALS7 115 1         -63.1   -60.0 -0.01241         -0.01241   -60.2   -57.2
              C:34090 ARNOLD1G22.0 34091 ARNOLD 5 161 1    2774
                Open 34090 ARNOLD1G22.0 34091 ARNOLD 5 161 1                           0.00768  0.00000  -369.0  -369.0
3580   -244.9 L:34013 WNBAGOS5 161 34258 WBGOJ S869.0 1          30.8    30.0  0.00345          0.00274    26.1    25.4
              C:61950 BYRON  3 345 63032 PL VLLY3 345 1    3375
                Open 61950 BYRON  3 345 63032 PL VLLY3 345 1                           0.00840  0.08464   567.6   546.9
3583   -242.7 L:61952 S FARIB5 161 61964 OWATNNA5 161 1         275.4   269.0  0.02627          0.01457   157.1   153.6
              C:PRI-BYN/RRK3                               3646
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                           0.15365  0.07639   767.2   748.7
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                           0.00248 -0.01725   152.8   157.0
3585   -241.2 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.9    60.0  0.01612          0.01629    65.0    61.1
              C:66565 SIOUXCY4 230 66567 DENISON4 230 1    2520
                Open 66565 SIOUXCY4 230 66567 DENISON4 230 1                          -0.00461  0.03530   241.7   233.1
3586   -241.2 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.9    60.0  0.01629          0.01629    65.0    61.1
              C:34606 GRNL CT869.0 34607 GRNCTTP869.0 1     709
                Open 34606 GRNL CT869.0 34607 GRNCTTP869.0 1                           0.02192  0.00000   -49.0   -49.0
3587   -240.5 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.9    60.0  0.01629          0.01629    65.0    61.1
              C:34116 W.BRCH 7 115 34117 SUTLIFF7 115 1     213
                Open 34116 W.BRCH 7 115 34117 SUTLIFF7 115 1                          -0.06132  0.00000    17.7    17.7
3588   -240.5 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.9    60.0  0.01629          0.01629    65.0    61.1
              C:34116 W.BRCH 7 115 34147 W.BRCH 934.5 1    2790
                Open 34116 W.BRCH 7 115 34147 W.BRCH 934.5 1                          -0.06132  0.00000    17.7    17.7
3590   -236.6 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         248.2   240.0  0.03475          0.03530   241.7   233.3
              C:34006 LAKEFLD3 345 60286 NOBLES 3 345 C1     20
                Open 34006 LAKEFLD3 345 60286 NOBLES 3 345 C1                         -0.02166  0.02531  -303.2  -309.2
3592   -234.7 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.8    60.0  0.01629          0.01629    65.0    61.2
              C:63002 STANT41G18.0 63049 STANTON4 230 1    3398
                Open 63002 STANT41G18.0 63049 STANTON4 230 1                           0.00609  0.00000  -193.8  -193.8
3595   -232.9 L:34075 ELDORA 7 115 34077 IA FALS7 115 1         -63.2   -60.0 -0.01386         -0.01241   -60.2   -57.3
              C:34052 AMES   7 115 34070 NEVADAT7 115 1     116
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                Open 34052 AMES   7 115 34070 NEVADAT7 115 1                          -0.09627  0.01508    31.3    27.8
3596   -232.9 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.8    60.0  0.01629          0.01629    65.0    61.2
              C:66519 OAHE   4 230 66556 OAHE2-3G13.8 1    3560
                Open 66519 OAHE   4 230 66556 OAHE2-3G13.8 1                           0.00768  0.00000  -157.6  -157.6
3598   -232.2 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         248.5   240.0  0.03651          0.03530   241.7   233.5
              C:60102 ADAMS  3 345 63032 PL VLLY3 345 1    2933
                Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                          -0.01251 -0.09714  -545.7  -523.1
3599   -232.2 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.8    60.0  0.01616          0.01629    65.0    61.2
              C:34006 LAKEFLD3 345 63875 RAUN   3 345 1    2708
                Open 34006 LAKEFLD3 345 63875 RAUN   3 345 1                          -0.00419  0.03120   298.4   291.1
3600   -230.5 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.8    60.0  0.01629          0.01629    65.0    61.2
              C:60331 LKFLDXL3 345 63093 LGS  56Y1.00 1    3022
                Open 60331 LKFLDXL3 345 63093 LGS  56Y1.00 1                           0.00683  0.00000  -183.0  -183.0
3601   -230.5 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.8    60.0  0.01629          0.01629    65.0    61.2
              C:60331 LKFLDXL3 345 63092 LGS  34Y1.00 1    3021
                Open 60331 LKFLDXL3 345 63092 LGS  34Y1.00 1                           0.00683  0.00000  -183.0  -183.0
3602   -230.5 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.8    60.0  0.01629          0.01629    65.0    61.2
              C:60331 LKFLDXL3 345 63091 LGS  12Y1.00 1    3020
                Open 60331 LKFLDXL3 345 63091 LGS  12Y1.00 1                           0.00683  0.00000  -183.0  -183.0
3603   -229.5 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          91.6    90.0  0.00709          0.00647    89.3    87.8
              C:825                                        3771
                Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                          -0.00044 -0.09714  -545.7  -523.4
                Open 34014 ADAMS  5 161 60102 ADAMS  3 345 1                          -0.00000  0.02245    -2.8    -8.0
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                          -0.00406 -0.14203  -525.7  -493.1
3604   -229.4 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          14.0    13.7  0.00132          0.00089    11.3    11.1
              C:60712 ANNDALE869.0 60765 MAPLELK869.0 1    1411
                Open 60712 ANNDALE869.0 60765 MAPLELK869.0 1                           0.32182  0.00132     8.4     8.1
3606   -228.3 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.7    60.0  0.01638          0.01629    65.0    61.3
              C:60130 SPLTRTA3 345 66537 WHITE  3 345 1    1008
                Open 60130 SPLTRTA3 345 66537 WHITE  3 345 1                           0.00219  0.04394  -576.3  -586.3
3607   -228.3 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.7    60.0  0.01638          0.01629    65.0    61.3
              C:60126 SPLT RK3 345 60130 SPLTRTA3 345 1    1001
                Open 60126 SPLT RK3 345 60130 SPLTRTA3 345 1                           0.00219  0.04394  -576.4  -586.4
3608   -227.3 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.7    60.0  0.01629          0.01629    65.0    61.3
              C:60006 KING 31G20.0 60186 AS KING3 345 1    2896
                Open 60006 KING 31G20.0 60186 AS KING3 345 1                           0.00282  0.00000  -461.4  -461.4
3610   -226.1 L:34051 TOLEDO 7 115 34083 BL.PLN.7 115 1          62.9    59.0  0.01744          0.01539    52.0    48.6
              C:34068 M-TOWN 5 161 34079 TRAER  5 161 1     151
                Open 34068 M-TOWN 5 161 34079 TRAER  5 161 1                           0.11341  0.01809    96.2    92.1
3614   -224.5 L:34054 GR JCT 5 161 63771 DRAGER 5 161 1        -149.7  -140.0 -0.04304         -0.03698  -123.9  -115.6
              C:66561 DENISON5 161 66567 DENISON4 230 1    2513
                Open 66561 DENISON5 161 66567 DENISON4 230 1                           0.18500 -0.03279  -139.3  -132.0
3615   -224.2 L:60107 W FARIB7 115 61952 S FARIB5 161 1         176.5   173.0  0.01560          0.01457   159.6   156.4
              C:050    2                                   3716
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.02546  0.06362   901.3   887.0
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.00881 -0.06704  -692.1  -677.1
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                           0.00000 -0.00175    77.5    77.9
3617   -223.7 L:34013 WNBAGOS5 161 34258 WBGOJ S869.0 1          30.8    30.0  0.00356          0.00274    26.1    25.5
              C:34264 BRICLYN869.0 34265 WALTERS869.0 1     428
                Open 34264 BRICLYN869.0 34265 WALTERS869.0 1                           0.29237  0.00281    16.1    15.5
3619   -222.7 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.6    60.0  0.01629          0.01629    65.0    61.4
              C:66507 FTTHOMP4 230 66540 BIGBND14 230 1    2461
                Open 66507 FTTHOMP4 230 66540 BIGBND14 230 1                           0.00781  0.00000  -176.2  -176.2
3620   -222.6 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -207.2  -200.0 -0.03224         -0.03224  -197.2  -190.0
              C:63001 COAL 42G22.0 63041 COAL CR4 230 1    3397
                Open 63001 COAL 42G22.0 63041 COAL CR4 230 1                           0.01730  0.00000  -575.5  -575.5
3621   -222.4 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -207.2  -200.0 -0.03224         -0.03224  -197.2  -190.0
              C:63000 COAL 41G22.0 63041 COAL CR4 230 1    3396
                Open 63000 COAL 41G22.0 63041 COAL CR4 230 1                           0.01730  0.00000  -575.2  -575.2
3623   -222.1 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.6    60.0  0.01629          0.01629    65.0    61.4
              C:60004 PR IS32G20.0 60105 PR ISLD3 345 1    2894
                Open 60004 PR IS32G20.0 60105 PR ISLD3 345 1                           0.00265  0.00000  -522.2  -522.2
3624   -222.0 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.6    60.0  0.01629          0.01629    65.0    61.4
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              C:60003 PR IS31G20.0 60105 PR ISLD3 345 1    2893
                Open 60003 PR IS31G20.0 60105 PR ISLD3 345 1                          0.00265  0.00000  -523.2  -523.2
3625   -221.8 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.6    60.0  0.01629          0.01629    65.0    61.4
              C:67106 LELANDO4 230 67110 LELAN41G22.0 1    3589
                Open 67106 LELANDO4 230 67110 LELAN41G22.0 1                          0.00649  0.00000  -214.2  -214.2
3626   -220.9 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -207.1  -200.0 -0.03224         -0.03224  -197.2  -190.1
              C:60008 RIVRS78G22.0 60240 RIVRSID7 115 1    2898
                Open 60008 RIVRS78G22.0 60240 RIVRSID7 115 1                          0.04347  0.00000  -227.9  -227.9
3627   -217.3 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.5    60.0  0.01629          0.01629    65.0    61.5
              C:66749 CENTER1G22.0 66751 CENTER 4 230 1    3575
                Open 66749 CENTER1G22.0 66751 CENTER 4 230 1                          0.00612  0.00000  -239.2  -239.2
3629   -216.3 L:64256 UNIONTP5 161 64655 UNI MID869.0 1         100.9   100.0  0.00406          0.00392    99.8    98.9
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          0.00123  0.11317   881.7   857.2
3630   -215.8 L:61615 ARROWHD4 230 61619 AHD PST  230 1         762.5   750.0  0.05791          0.03683   546.5   538.5
              C:050    3                                   3717
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.30273 -0.06704  -692.1  -677.6
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                         -0.18549 -0.00300     0.0     0.6
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                         -0.15212 -0.00148   -42.6   -42.3
3631   -215.1 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.5    60.0  0.01629          0.01629    65.0    61.5
              C:34006 LAKEFLD3 345  3400 G164    34.5 1    2707
                Open 34006 LAKEFLD3 345  3400 G164    34.5 1                          0.00750  0.00000  -199.8  -199.8
3632   -215.0 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.5    60.0  0.01629          0.01629    65.0    61.5
              C: 6001 YANKEE 7 115  6002 YANKGEN 34.5 1    3621
                Open  6001 YANKEE 7 115  6002 YANKGEN 34.5 1                          0.00748  0.00000  -200.8  -200.8
3633   -214.7 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.5    60.0  0.01629          0.01629    65.0    61.5
              C:66537 WHITE  3 345  6653 GI0108  34.5 1    3565
                Open 66537 WHITE  3 345  6653 GI0108  34.5 1                          0.00757  0.00000  -198.9  -198.9
3634   -214.6 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          91.4    90.0  0.00670          0.00647    89.3    87.9
              C:34204 JASPER 869.0 34549 JASPER Y 161 1     332
                Open 34204 JASPER 869.0 34549 JASPER Y 161 1                         -0.05476 -0.00409   -39.9   -39.0
3635   -214.6 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          91.4    90.0  0.00670          0.00647    89.3    87.9
              C:34179 JASPER 5 161 34549 JASPER Y 161 1     286
                Open 34179 JASPER 5 161 34549 JASPER Y 161 1                          0.05476  0.00409    39.9    39.0
3636   -214.6 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          91.4    90.0  0.00670          0.00647    89.3    87.9
              C:34204 JASPER 869.0 34574 AURORA 869.0 1     333
                Open 34204 JASPER 869.0 34574 AURORA 869.0 1                          0.05476  0.00409    39.9    39.0
3637   -214.6 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          91.5    90.0  0.00709          0.00647    89.3    87.9
              C:34018 HAZLTON3 345 60102 ADAMS  3 345 1      56
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                         -0.00431 -0.14203  -525.7  -495.2
3638   -214.5 L:34075 ELDORA 7 115 34077 IA FALS7 115 1         -62.8   -60.0 -0.01305         -0.01241   -60.2   -57.6
              C:34191 REASNOR5 161 64062 DMOINES5 161 1    2820
                Open 34191 REASNOR5 161 64062 DMOINES5 161 1                          0.02081 -0.03041  -124.0  -117.4
3639   -214.0 L:61618 ARROWHD3 345 61619 AHD PST  230 1        -762.4  -750.0 -0.05791         -0.03683  -546.4  -538.5
              C:050    3                                   3717
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          0.30273 -0.06704  -692.1  -677.8
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                          0.18549 -0.00300     0.0     0.6
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                          0.15212 -0.00148   -42.6   -42.3
3640   -213.3 L:34138 DUNDEE 869.0 34521 GRELYTP869.0 1          24.7    24.0  0.00335          0.00309    22.1    21.4
              C:ASK-RRK/ECL3                               3642
                Open 60186 AS KING3 345 60236 REDROCK3 345 1                         -0.00035 -0.01969   140.3   144.5
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00057  0.06362   901.3   887.7
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.00318 -0.06704  -692.1  -677.8
3641   -213.0 L:34054 GR JCT 5 161 34058 PERRY  5 161 1         120.1   112.0  0.03826          0.03623   105.0    97.3
              C:34073 GR JCT 7 115 34529 GRJCT5Y  161 1     157
                Open 34073 GR JCT 7 115 34529 GRJCT5Y  161 1                         -0.50807 -0.00401   -29.8   -28.9
3642   -213.0 L:34054 GR JCT 5 161 34058 PERRY  5 161 1         120.1   112.0  0.03826          0.03623   105.0    97.3
              C:34054 GR JCT 5 161 34529 GRJCT5Y  161 1     122
                Open 34054 GR JCT 5 161 34529 GRJCT5Y  161 1                          0.50807  0.00401    29.8    28.9
3643   -212.8 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.5    60.0  0.01629          0.01629    65.0    61.5
              C:34007 LAKEFLD5 161  6006 G262    34.5 1    2709
                Open 34007 LAKEFLD5 161  6006 G262    34.5 1                          0.00768  0.00000  -200.2  -200.2
3644   -212.3 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.5    60.0  0.01629          0.01629    65.0    61.5
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              C:60369 FENTON 7 115  6036 G162    34.5 1    3039
                Open 60369 FENTON 7 115  6036 G162    34.5 1                                0.00773  0.00000  -199.8  -199.8
3645   -212.2 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          36.7    36.0  0.00351          0.00284    33.0    32.4
              C:34275 WELCOMT869.0 61942 10TH STR69.0 1     441
                Open 34275 WELCOMT869.0 61942 10TH STR69.0 1                                0.17463  0.00381    21.2    20.4
3646   -212.0 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -321.0  -318.0 -0.01397         -0.01397  -311.5  -308.6
              C:60108 WILMART3 345  8001 G261-ST 19.5 1    2938
                Open 60108 WILMART3 345  8001 G261-ST 19.5 1                                0.02895  0.00000  -326.0  -326.0
3647   -211.7 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.5    60.0  0.01633          0.01629    65.0    61.6
              C:60126 SPLT RK3 345 60131 SPLTRTB3 345 1    1002
                Open 60126 SPLT RK3 345 60131 SPLTRTB3 345 1                               -0.00285 -0.01463   543.3   546.4
3648   -211.7 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.5    60.0  0.01633          0.01629    65.0    61.6
              C:60131 SPLTRTB3 345 66564 SIOUXCY3 345 1    1009
                Open 60131 SPLTRTB3 345 66564 SIOUXCY3 345 1                               -0.00285 -0.01463   543.3   546.4
3649   -209.5 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.4    60.0  0.01629          0.01629    65.0    61.6
              C:60287 NOBLES 7 115  6430 G287    34.5 1    3626
                Open 60287 NOBLES 7 115  6430 G287    34.5 1                                0.00795  0.00000  -200.0  -200.0
3650   -209.2 L:34054 GR JCT 5 161 34058 PERRY  5 161 1         120.0   112.0  0.03826          0.03623   105.0    97.4
              C:34059 BOONE  7 115 34073 GR JCT 7 115 1     132
                Open 34059 BOONE  7 115 34073 GR JCT 7 115 1                               -0.50807 -0.00401   -29.5   -28.6
3651   -209.2 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.4    60.0  0.01629          0.01629    65.0    61.6
              C:60108 WILMART3 345  8001 G261-ST 19.5 1    2938
                Open 60108 WILMART3 345  8001 G261-ST 19.5 1                                0.00489  0.00000  -326.0  -326.0
3653   -208.4 L:34138 DUNDEE 869.0 34521 GRELYTP869.0 1          24.5    24.0  0.00253          0.00309    22.1    21.4
              C:34036 ROCK CK3 345 36382 QUAD ;   345 1    2734
                Open 34036 ROCK CK3 345 36382 QUAD ;   345 1                               -0.01021  0.05461  -242.5  -253.9
3654   -208.1 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          91.4    90.0  0.00691          0.00647    89.3    87.9
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                               -0.00311 -0.13973  -702.5  -673.5
3656   -207.6 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.3    60.0  0.01577          0.01629    65.0    61.6
              C:34054 GR JCT 5 161 63771 DRAGER 5 161 1    2748
                Open 34054 GR JCT 5 161 63771 DRAGER 5 161 1                                0.01395 -0.03698  -123.9  -116.2
3659   -204.7 L:61952 S FARIB5 161 61964 OWATNNA5 161 1         274.4   269.0  0.02625          0.01457   157.1   154.1
              C:60105 PR ISLD3 345 61950 BYRON  3 345 1     951
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                                0.15284  0.07639   767.2   751.6
3662   -203.3 L:34075 ELDORA 7 115 34077 IA FALS7 115 1         -62.6   -60.0 -0.01301         -0.01241   -60.2   -57.7
              C:34014 ADAMS  5 161 34015 LIME CK5 161 1      42
                Open 34014 ADAMS  5 161 34015 LIME CK5 161 1                                0.02113 -0.02813  -114.8  -109.1
3664   -201.3 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -80.3   -77.0 -0.01640         -0.01539   -75.2   -72.1
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                                0.00724 -0.13973  -702.5  -674.4
3665   -201.0 L:60917 HUGOUPA869.0 60921 BIRCH  869.0 1         -47.5   -47.0 -0.00245         -0.00119   -11.6   -11.3
              C:60196 CHI    7 115 60920 LINDSTM7 115 C1   1140
                Open 60196 CHI    7 115 60920 LINDSTM7 115 C1                               -0.13820  0.00913   259.9   258.1
3666   -200.9 L:34054 GR JCT 5 161 63771 DRAGER 5 161 1        -148.6  -140.0 -0.04304         -0.03698  -123.9  -116.5
              C:34047 ANTA TP5 161 66561 DENISON5 161 1     109
                Open 34047 ANTA TP5 161 66561 DENISON5 161 1                                0.18500 -0.03279  -133.8  -127.3
3668   -199.6 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.3    60.0  0.01629          0.01629    65.0    61.8
              C:60015 ANSON CG 115 61475 ANS TR2Y 115 2     941
                Open 60015 ANSON CG 115 61475 ANS TR2Y 115 2                                0.00829  0.00000  -211.2  -211.2
3669   -199.6 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.3    60.0  0.01629          0.01629    65.0    61.8
              C:60015 ANSON CG 115 60129 SPLT RK7 115 1     940
                Open 60015 ANSON CG 115 60129 SPLT RK7 115 1                                0.00829  0.00000  -211.3  -211.3
3670   -199.3 L:34075 ELDORA 7 115 34077 IA FALS7 115 1         -62.6   -60.0 -0.01298         -0.01241   -60.2   -57.7
              C:34179 JASPER 5 161 64189 NEANKNY5 161 1    2816
                Open 34179 JASPER 5 161 64189 NEANKNY5 161 1                                0.02714 -0.02084   -87.3   -83.1
3671   -199.3 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.2    60.0  0.01629          0.01629    65.0    61.8
              C:34016 EMERY  5 161 34911 EMERYGT218.0 1    2722
                Open 34016 EMERY  5 161 34911 EMERYGT218.0 1                                0.01058  0.00000  -166.2  -166.2
3672   -199.3 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          63.2    60.0  0.01629          0.01629    65.0    61.8
              C:34016 EMERY  5 161 34910 EMERYGT118.0 1    2721
                Open 34016 EMERY  5 161 34910 EMERYGT118.0 1                                0.01058  0.00000  -166.2  -166.2
3673   -198.8 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -320.8  -318.0 -0.01396         -0.01397  -311.5  -308.7
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              C:62427 WILLMAR869.0 63050 WILLMAR4 230 1    1893
                Open 62427 WILLMAR869.0 63050 WILLMAR4 230 1                          0.24072  0.00004   -38.4   -38.4
3675   -196.0 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1          -48.4   -48.0 -0.00229         -0.00216   -44.9   -44.5
              C:61906 MAPLE LF 161 61948 BYRON  5 161 1    3372
                Open 61906 MAPLE LF 161 61948 BYRON  5 161 1                          0.01144 -0.01203  -309.4  -307.0
3676   -195.7 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1           63.2    60.0  0.01629          0.01629    65.0    61.8
              C:60001 SHERC32G24.0 60160 SHERCO 3 345 1    2891
                Open 60001 SHERC32G24.0 60160 SHERCO 3 345 1                          0.00319  0.00000  -568.8  -568.8
3677   -195.4 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -320.8  -318.0 -0.01427         -0.01397  -311.5  -308.8
              C:60145 FRANKLN7 115 61954 REDFLST7 115 P1   1042
                Open 60145 FRANKLN7 115 61954 REDFLST7 115 P1                         0.11837 -0.00255   -78.3   -77.8
3678   -194.5 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1           63.2    60.0  0.01629          0.01629    65.0    61.8
              C:60005 MNTCE31G22.0 60151 MNTCELO3 345 1    2895
                Open 60005 MNTCE31G22.0 60151 MNTCELO3 345 1                          0.00321  0.00000  -571.4  -571.4
3679   -193.9 L:34075 ELDORA 7 115 34077 IA FALS7 115 1          -62.4   -60.0 -0.01257         -0.01241   -60.2   -57.8
              C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                         -0.00246  0.06362   901.3   889.0
3680   -193.5 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1           63.2    60.0  0.01629          0.01629    65.0    61.9
              C:60000 SHERC31G24.0 60160 SHERCO 3 345 1    2890
                Open 60000 SHERC31G24.0 60160 SHERCO 3 345 1                          0.00319  0.00000  -580.3  -580.3
3681   -193.3 L:61666 FONDULAC 115 61676 HIBBARD7 115 1           67.6    67.0  0.00314          0.00243    57.6    57.1
              C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.01115  0.06362   901.3   889.0
3684   -189.8 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1           63.2    60.0  0.01661          0.01629    65.0    61.9
              C:34099 PRAR CK7 115 34103 MARION 7 115 1     186
                Open 34099 PRAR CK7 115 34103 MARION 7 115 1                         -0.06023 -0.00539    30.7    31.7
3685   -189.7 L:60150 MNVLTAP4 230 63054 PANTHER4 230 1          393.6   388.0  0.02958          0.01687   329.7   326.5
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                         -0.09098 -0.13973  -702.5  -676.0
3686   -189.2 L:34075 ELDORA 7 115 34077 IA FALS7 115 1          -62.5   -60.0 -0.01309         -0.01241   -60.2   -57.9
              C:34054 GR JCT 5 161 63771 DRAGER 5 161 1    2748
                Open 34054 GR JCT 5 161 63771 DRAGER 5 161 1                          0.01823 -0.03698  -123.9  -116.9
3687   -188.9 L:34075 ELDORA 7 115 34077 IA FALS7 115 1          -62.6   -60.0 -0.01401         -0.01241   -60.2   -57.9
              C:34068 M-TOWN 5 161 34179 JASPER 5 161 1     152
                Open 34068 M-TOWN 5 161 34179 JASPER 5 161 1                          0.09878 -0.01619   -24.6   -21.5
3689   -185.1 L:66565 SIOUXCY4 230 66567 DENISON4 230 1          247.2   240.0  0.03892          0.03530   241.7   235.1
              C:63893 LT SX  869.0 66593 J4IDAGR869.0 1    3471
                Open 63893 LT SX  869.0 66593 J4IDAGR869.0 1                          0.23791  0.01523    23.3    20.5
3690   -184.4 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1          -80.5   -77.0 -0.01888         -0.01539   -75.2   -72.4
              C:34089 VINTON 5 161 34091 ARNOLD 5 161 1     177
                Open 34089 VINTON 5 161 34091 ARNOLD 5 161 1                         -0.07381  0.04736    71.4    62.6
3692   -183.7 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -205.9  -200.0 -0.03224         -0.03224  -197.2  -191.3
              C:63314 BIGSTON4 230 63315 BIGSTN1G24.0 1    3458
                Open 63314 BIGSTON4 230 63315 BIGSTN1G24.0 1                          0.01867  0.00000  -466.2  -466.2
3693   -182.6 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1           62.9    60.0  0.01564          0.01629    65.0    62.0
              C:34121 E CALMS7 115 34539 E CALMSY 161 1     216
                Open 34121 E CALMS7 115 34539 E CALMSY 161 1                         -0.06957  0.00935    30.9    29.1
3694   -182.6 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1           62.9    60.0  0.01564          0.01629    65.0    62.0
              C:34122 E CALMS5 161 34539 E CALMSY 161 1     220
                Open 34122 E CALMS5 161 34539 E CALMSY 161 1                          0.06957 -0.00935   -30.9   -29.1
3695   -181.9 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1           62.8    60.0  0.01564          0.01629    65.0    62.0
              C:34120 CALAMUS7 115 34121 E CALMS7 115 1     215
                Open 34120 CALAMUS7 115 34121 E CALMS7 115 1                         -0.06957  0.00935    31.0    29.3
3696   -179.9 L:64062 DMOINES5 161 64632 DMSMID2869.0 2           91.2    90.0  0.00647          0.00647    89.3    88.1
              C:34606 GRNL CT869.0 34607 GRNCTTP869.0 1     709
                Open 34606 GRNL CT869.0 34607 GRNCTTP869.0 1                         -0.03901  0.00000   -49.0   -49.0
3697   -179.5 L:34185 POWESHK5 161 34191 REASNOR5 161 1        -175.5  -167.0 -0.04760         -0.04760  -132.1  -123.5
              C:34146 OTTUMW1G24.0 34189 OTTUMWA5 161 1    2809
                Open 34146 OTTUMW1G24.0 34189 OTTUMWA5 161 1                          0.09319  0.00000  -466.3  -466.3
3698   -178.4 L:66565 SIOUXCY4 230 66567 DENISON4 230 1          246.8   240.0  0.03809          0.03530   241.7   235.4
              C:34018 HAZLTON3 345 34093 ARNOLD 3 345 1      55
                Open 34018 HAZLTON3 345 34093 ARNOLD 3 345 1                          0.01542  0.18131   333.4   301.1
3699   -178.0 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1           62.8    60.0  0.01575          0.01629    65.0    62.1
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              C:34191 REASNOR5 161 64062 DMOINES5 161 1    2820
                Open 34191 REASNOR5 161 64062 DMOINES5 161 1                                0.01775 -0.03041  -124.0  -118.5
3700   -177.8 L:34138 DUNDEE 869.0 34521 GRELYTP869.0 1          24.6    24.0  0.00334          0.00309    22.1    21.5
              C:050    3                                   3717
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           -0.00365 -0.06704  -692.1  -680.2
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                           -0.00191 -0.00300     0.0     0.5
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                           -0.00032 -0.00148   -42.6   -42.4
3701   -176.3 L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          62.8    60.0  0.01563          0.01629    65.0    62.1
              C:34061 BNE JCT5 161 64205 FT.DODG5 161 1    2756
                Open 34061 BNE JCT5 161 64205 FT.DODG5 161 1                                0.01725 -0.03824  -130.3  -123.6
3702   -175.8 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -205.8  -200.0 -0.03277         -0.03224  -197.2  -191.6
              C:34383 MC 25ST869.0 34385 MC NWT 869.0 1     538
                Open 34383 MC 25ST869.0 34385 MC NWT 869.0 1                           -0.26627  0.00199    32.1    31.7
3703   -175.8 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -205.8  -200.0 -0.03277         -0.03224  -197.2  -191.6
              C:34383 MC 25ST869.0 34384 MCARMOR869.0 1     537
                Open 34383 MC 25ST869.0 34384 MCARMOR869.0 1                                0.26627 -0.00199   -32.1   -31.7
3704   -175.3 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -320.4  -318.0 -0.01389         -0.01397  -311.5  -309.1
              C:SHC-CNC/ECK3                              3631
                Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                           -0.00416  0.00782   479.8   478.4
                Open 60114 ELM CRK3 345 60151 MNTCELO3 345 1                            0.01096  0.01063  -631.1  -633.0
3705   -175.3 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -320.4  -318.0 -0.01385         -0.01397  -311.5  -309.1
              C:009   2                                   3697
                Open 60160 SHERCO 3 345 60272 MPLEGV23 345 1                           -0.00413  0.00782   479.8   478.4
                Open 60202 COON CK3 345 60272 MPLEGV23 345 1                            0.03525  0.00000     4.2     4.2
                Open 60114 ELM CRK3 345 60151 MNTCELO3 345 1                            0.00786  0.01063  -631.1  -633.0
                Open 60114 ELM CRK3 345 60233 PARKERS3 345 1                           -0.00432 -0.01568   349.1   351.8
                Open 60202 COON CK3 345 61488 CNCMID1Y 345 1                           -0.00183 -0.00156   331.6   331.9
                Open 60203 COON CK7 115 61488 CNCMID1Y 345 1                            0.03709  0.00000     0.1     0.1
                Open 60656 CNCTER1934.5 61488 CNCMID1Y 345 1     NA
3706   -172.1 L:34588 SLAKEN 869.0 34592 SLAKES 869.0 1         -58.5   -58.0 -0.00265         -0.00273   -59.9   -59.5
              C:34048 ANITA  5 161 34050 GU CTR 5 161 1     110
                Open 34048 ANITA  5 161 34050 GU CTR 5 161 1                            0.02489  0.00326    59.8    59.2
3708   -171.2 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -320.4  -318.0 -0.01397         -0.01397  -311.5  -309.1
              C:60008 RIVRS78G22.0 60240 RIVRSID7 115 1    2898
                Open 60008 RIVRS78G22.0 60240 RIVRSID7 115 1                            0.03892  0.00000  -227.9  -227.9
3709   -170.4 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         246.0   240.0  0.03530          0.03530   241.7   235.6
              C:34146 OTTUMW1G24.0 34189 OTTUMWA5 161 1    2809
                Open 34146 OTTUMW1G24.0 34189 OTTUMWA5 161 1                           -0.00935  0.00000  -466.3  -466.3
3710   -168.5*L:34066 M-TOWN 7 115 34085 BLRSTWN7 115 1          62.6    60.0  0.01572          0.01629    65.0    62.3
              C:34179 JASPER 5 161 64189 NEANKNY5 161 1    2816
                Open 34179 JASPER 5 161 64189 NEANKNY5 161 1                            0.02696 -0.02084   -87.3   -83.8
3712   -168.1 L:34051 TOLEDO 7 115 34083 BL.PLN.7 115 1          61.6    59.0  0.01539          0.01539    52.0    49.4
              C:34090 ARNOLD1G22.0 34091 ARNOLD 5 161 1    2774
                Open 34090 ARNOLD1G22.0 34091 ARNOLD 5 161 1                           -0.02589  0.00000  -369.0  -369.0
3714   -167.8 L:34075 ELDORA 7 115 34077 IA FALS7 115 1         -62.1   -60.0 -0.01241         -0.01241   -60.2   -58.1
              C:34098 PR CRK4G18.0 34099 PRAR CK7 115 1    2782
                Open 34098 PR CRK4G18.0 34099 PRAR CK7 115 1                            0.01413  0.00000  -132.0  -132.0
3718   -162.3 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         245.9   240.0  0.03655          0.03530   241.7   235.9
              C:34061 BNE JCT5 161 64205 FT.DODG5 161 1    2756
                Open 34061 BNE JCT5 161 64205 FT.DODG5 161 1                           -0.03285 -0.03824  -130.3  -124.1
3719   -162.1 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          91.1    90.0  0.00663          0.00647    89.3    88.2
              C:050    1                                   3715
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                            0.00087  0.06362   901.3   891.0
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           -0.00146 -0.06704  -692.1  -681.2
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                           -0.00000 -0.00175    77.5    77.8
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                           -0.00086 -0.00300     0.0     0.5
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                           -0.00068 -0.00148   -42.6   -42.4
3721   -159.2 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          91.1    90.0  0.00662          0.00647    89.3    88.2
              C:ASK-RRK/ECL3                              3642
                Open 60186 AS KING3 345 60236 REDROCK3 345 1                            0.00009 -0.01969   140.3   143.4
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                            0.00091  0.06362   901.3   891.2
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           -0.00140 -0.06704  -692.1  -681.4
3722   -158.5 L:60917 HUGOUPA869.0 60929 MAYTAP 869.0 1          47.4    47.0  0.00245          0.00119    11.5    11.3
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              C:60196 CHI    7 115 60920 LINDSTM7 115 C1   1140
                Open 60196 CHI    7 115 60920 LINDSTM7 115 C1                          0.13820  0.00913   259.9   258.5
3723   -158.0 L:61721 ETCO   7 115 61722 FORBES 7 115 1         -98.3   -98.0 -0.00181         -0.00176   -94.4   -94.1
              C:60186 AS KING3 345 60199 CHIS CO3 345 1    1113
                Open 60186 AS KING3 345 60199 CHIS CO3 345 1                          0.00794 -0.00535  -490.2  -489.3
3724   -156.9 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         245.6   240.0  0.03551          0.03530   241.7   236.1
              C:64783 COLMBUS4 230 66509 FTRANDL4 230 1    3482
                Open 64783 COLMBUS4 230 66509 FTRANDL4 230 1                         -0.02061 -0.01013  -190.0  -188.4
3725   -156.1 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -205.3  -200.0 -0.03367         -0.03224  -197.2  -192.2
              C:60102 ADAMS  3 345 63032 PL VLLY3 345 1    2933
                Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                          0.01473 -0.09714  -545.7  -530.5
3727   -154.4 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         245.6   240.0  0.03611          0.03530   241.7   236.2
              C:34009 WINBAGO5 161 61932 RUTLAND5 161 1      32
                Open 34009 WINBAGO5 161 61932 RUTLAND5 161 1                         -0.01594 -0.05102  -245.9  -238.1
3728   -154.2 L:62429 PNNCKTP869.0 66298 GRANITF869.0 1         -24.4   -24.3 -0.00091         -0.00071   -15.7   -15.6
              C:62005 KERKHOT7 115 62425 WILLMAR7 115 C1   1712
                Open 62005 KERKHOT7 115 62425 WILLMAR7 115 C1                        -0.15795  0.00127    55.0    54.8
3729   -154.2 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -205.0  -200.0 -0.03224         -0.03224  -197.2  -192.2
              C:34021 LANSINGW 161 34024 LANS5 4G22.0 1    2727
                Open 34021 LANSINGW 161 34024 LANS5 4G22.0 1                          0.04756  0.00000  -163.0  -163.0
3730   -154.1 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -205.0  -200.0 -0.03266         -0.03224  -197.2  -192.2
              C:795                                        3765
                Open 60150 MNVLTAP4 230 66550 GRANITF4 230 1                          0.02499 -0.01397  -311.5  -309.4
                Open 60148 MINVALY7 115 60149 MINVALT4 230 C1                        -0.02428  0.00290    18.2    17.7
                Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                          0.04258  0.00000     0.0     0.0
                Open 60149 MINVALT4 230 60150 MNVLTAP4 230 1     NA
                Open 60742 PANTHER869.0 63054 PANTHER4 230 1                         -0.01020  0.00014   -40.1   -40.1
3731   -153.2 L:34138 DUNDEE 869.0 34521 GRELYTP869.0 1          24.5    24.0  0.00333          0.00309    22.1    21.6
              C:39244 ARP 345  345 60304 EAU CL 3 345 1    2888
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.00355 -0.06704  -692.1  -681.8
3732   -153.1 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          91.0    90.0  0.00662          0.00647    89.3    88.3
              C:050    2                                   3716
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00088  0.06362   901.3   891.6
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.00140 -0.06704  -692.1  -681.8
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                         -0.00000 -0.00175    77.5    77.7
3733   -152.6 L:60107 W FARIB7 115 61952 S FARIB5 161 1         175.4   173.0  0.01548          0.01457   159.6   157.4
              C:050    1                                   3715
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.02574  0.06362   901.3   891.6
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          0.01000 -0.06704  -692.1  -681.9
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          0.00000 -0.00175    77.5    77.7
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                          0.01530 -0.00300     0.0     0.5
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                          0.01314 -0.00148   -42.6   -42.4
3734   -152.5 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -79.9   -77.0 -0.01888         -0.01539   -75.2   -72.9
              C:34087 DYSART 5 161 34089 VINTON 5 161 1     176
                Open 34087 DYSART 5 161 34089 VINTON 5 161 1                         -0.07381  0.04736    63.2    56.0
3735   -151.8 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         245.4   240.0  0.03550          0.03530   241.7   236.3
              C:795                                        3765
                Open 60150 MNVLTAP4 230 66550 GRANITF4 230 1                         -0.01200 -0.01397  -311.5  -309.4
                Open 60148 MINVALY7 115 60149 MINVALT4 230 C1                         0.01189  0.00290    18.2    17.8
                Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                          0.02275  0.00000     0.0     0.0
                Open 60149 MINVALT4 230 60150 MNVLTAP4 230 1     NA
                Open 60742 PANTHER869.0 63054 PANTHER4 230 1                          0.00553  0.00014   -40.1   -40.1
3736   -151.3 L:34075 ELDORA 7 115 34077 IA FALS7 115 1         -61.9   -60.0 -0.01266         -0.01241   -60.2   -58.3
              C:34020 HAZL S 5 161 34135 DUNDEE 5 161 1      60
                Open 34020 HAZL S 5 161 34135 DUNDEE 5 161 1                         -0.00817  0.03042   207.8   203.2
3737   -147.9 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -79.3   -77.0 -0.01579         -0.01539   -75.2   -72.9
              C:PRI-BYN/RRK3                               3646
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                         -0.00535  0.07639   767.2   755.9
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                         -0.00009 -0.01725   152.8   155.3
3739   -147.6 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -320.1  -318.0 -0.01447         -0.01397  -311.5  -309.5
              C:63314 BIGSTON4 230 63325 BROWNSV4 230 1    2187
                Open 63314 BIGSTON4 230 63325 BROWNSV4 230 1                         -0.08300  0.00604   103.8   102.9
3741   -147.2 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         245.7   240.0  0.03886          0.03530   241.7   236.5
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              C:66583 DENISON869.0 66593 J4IDAGR869.0 1    2531
                Open 66583 DENISON869.0 66593 J4IDAGR869.0 1                          -0.37564 -0.00949   -10.8    -9.4
3742   -147.1 L:34075 ELDORA 7 115 34077 IA FALS7 115 1         -61.8   -60.0 -0.01241         -0.01241   -60.2   -58.4
              C:34146 OTTUMW1G24.0 34189 OTTUMWA5 161 1    2809
                Open 34146 OTTUMW1G24.0 34189 OTTUMWA5 161 1                           0.00345  0.00000  -466.3  -466.3
3743   -145.7 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -79.3   -77.0 -0.01579         -0.01539   -75.2   -73.0
              C:60105 PR ISLD3 345 61950 BYRON  3 345 1     951
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                          -0.00533  0.07639   767.2   756.1
3744   -145.5 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -204.7  -200.0 -0.03224         -0.03224  -197.2  -192.5
              C:60010 HIBRD76G18.0 60214 HIBRDGE7 115 1    2900
                Open 60010 HIBRD76G18.0 60214 HIBRDGE7 115 1                           0.04439  0.00000  -168.3  -168.3
3745   -145.4 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -204.8  -200.0 -0.03328         -0.03224  -197.2  -192.5
              C:34571 FRNKLN_Y 161 64239 FRANKLN5 161 1    2856
                Open 34571 FRNKLN_Y 161 64239 FRANKLN5 161 1                           0.08377 -0.01241   -91.0    -89.2
3746   -145.4 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -204.8  -200.0 -0.03328         -0.03224  -197.2  -192.5
              C:34072 FRNKLIN7 115 34077 IA FALS7 115 1     155
                Open 34072 FRNKLIN7 115 34077 IA FALS7 115 1                          -0.08377  0.01241    91.0     89.2
3747   -145.4 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -204.8  -200.0 -0.03328         -0.03224  -197.2  -192.5
              C:34072 FRNKLIN7 115 34571 FRNKLN_Y 161 1     156
                Open 34072 FRNKLIN7 115 34571 FRNKLN_Y 161 1                           0.08377 -0.01241   -91.0    -89.2
3748   -145.0 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         245.1   240.0  0.03548          0.03530   241.7   236.5
              C:60150 MNVLTAP4 230 63054 PANTHER4 230 1    2952
                Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                           0.01059  0.01687   329.7   327.2
3749   -145.0 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -204.7  -200.0 -0.03224         -0.03224  -197.2  -192.5
              C:67315 COYOTE1G24.0 67316 COYOTE 3 345 1    3613
                Open 67315 COYOTE1G24.0 67316 COYOTE 3 345 1                           0.01738  0.00000  -429.1  -429.1
3750   -144.9 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         244.5   240.0  0.03106          0.03530   241.7   236.5
              C:66307 SIOUXC3T 230 66565 SIOUXCY4 230 1    2303
                Open 66307 SIOUXC3T 230 66565 SIOUXCY4 230 1                          -0.03525  0.12016   -80.8   -98.2
3751   -144.9 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         244.5   240.0  0.03106          0.03530   241.7   236.5
              C:66309 SIOUXC4T 230 66565 SIOUXCY4 230 1    2305
                Open 66309 SIOUXC4T 230 66565 SIOUXCY4 230 1                          -0.03525  0.12016   -80.8   -98.2
3752   -144.9 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         244.5   240.0  0.03106          0.03530   241.7   236.5
              C:66307 SIOUXC3T 230 66566 SIOUXCY5 161 1    2304
                Open 66307 SIOUXC3T 230 66566 SIOUXCY5 161 1                           0.03525 -0.12016    80.7    98.2
3753   -144.9 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         244.5   240.0  0.03106          0.03530   241.7   236.5
              C:66309 SIOUXC4T 230 66566 SIOUXCY5 161 1    2306
                Open 66309 SIOUXC4T 230 66566 SIOUXCY5 161 1                           0.03525 -0.12016    80.7    98.2
3754   -144.6 L:34423 MONONA_869.0 69307 FARMBURG69.0 1          52.0    51.0  0.00677          0.00601    44.4    43.5
              C:050    3                                   3717
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.01086 -0.06704  -692.1  -682.4
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                          -0.01012 -0.00300     0.0     0.4
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                          -0.00191 -0.00148   -42.6   -42.4
3755   -144.5 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          91.0    90.0  0.00661          0.00647    89.3    88.3
              C:34212 NEWTON 869.0 64156 COLFAX 869.0 1    2827
                Open 34212 NEWTON 869.0 64156 COLFAX 869.0 1                           0.30982  0.00043     5.5     5.4
3756   -144.5 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         245.1   240.0  0.03497          0.03530   241.7   236.6
              C:34059 BOONE  7 115 34076 BNE JCT7 115 1     133
                Open 34059 BOONE  7 115 34076 BNE JCT7 115 1                          -0.08082  0.00401   -42.1   -42.7
3758   -142.8 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -320.1  -318.0 -0.01453         -0.01397  -311.5  -309.5
              C:62427 WILLMAR869.0 62437 SVEATAP869.0 1    1890
                Open 62427 WILLMAR869.0 62437 SVEATAP869.0 1                          -0.28775  0.00195    29.7    29.4
3761   -141.5 L:34075 ELDORA 7 115 34077 IA FALS7 115 1         -61.8   -60.0 -0.01297         -0.01241   -60.2   -58.5
              C:34054 GR JCT 5 161 34058 PERRY  5 161 1     120
                Open 34054 GR JCT 5 161 34058 PERRY  5 161 1                          -0.01541  0.03623   105.0    99.9
3762   -140.1 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -204.6  -200.0 -0.03261         -0.03224  -197.2  -192.7
              C:60150 MNVLTAP4 230 63054 PANTHER4 230 1    2952
                Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                          -0.02230  0.01687   329.7   327.3
3763   -139.5 L:34022 LANSING5 161 34023 LANSING869.0 1          75.8    75.0  0.00538          0.00314    57.1    56.7
              C:885                                       3780
                Open 69507 SENECA 5 161 69511 BELLCTR5 161 1                          -0.02205  0.00408   129.4   128.8
                Open 69507 SENECA 5 161 69523 GENOA  5 161 1                          -0.07542 -0.03083  -284.7  -280.4
3764   -139.3 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -79.2   -77.0 -0.01590         -0.01539   -75.2   -73.1
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              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          -0.00454  0.11317   881.7   866.0
3767   -137.3 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         245.1   240.0  0.03744          0.03530   241.7   236.8
              C:34093 ARNOLD 3 345 64352 TIFFIN 3 345 1    2777
                Open 34093 ARNOLD 3 345 64352 TIFFIN 3 345 1                           0.01006  0.21292   346.7   317.5
3768   -137.1 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         245.2   240.0  0.03829          0.03530   241.7   236.8
              C:63713 OSGOOD 5 161 66563 SPENCER5 161 1    3461
                Open 63713 OSGOOD 5 161 66563 SPENCER5 161 1                          -0.02091 -0.14331  -172.0  -152.3
3769   -136.3 L:34061 BNE JCT5 161 34076 BNE JCT7 115 2          61.4    60.0  0.01047          0.00666    48.7    47.7
              C:34054 GR JCT 5 161 63771 DRAGER 5 161 1    2748
                Open 34054 GR JCT 5 161 63771 DRAGER 5 161 1                          -0.10312 -0.03698  -123.9  -118.8
3771   -135.6 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          90.9    90.0  0.00669          0.00647    89.3    88.4
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                           0.00187  0.11317   881.7   866.4
3772   -135.4 L:61934 RUTLAND 69.0 61942 10TH STR69.0 1         -36.9   -36.0 -0.00643         -0.00381   -23.7   -23.2
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                           0.01879 -0.13973  -702.5  -683.6
3773   -134.1 L:62427 WILLMAR869.0 62437 SVEATAP869.0 1          53.4    53.0  0.00316          0.00195    29.7    29.5
              C:60150 MNVLTAP4 230 63054 PANTHER4 230 1    2952
                Open 60150 MNVLTAP4 230 63054 PANTHER4 230 1                           0.07191  0.01687   329.7   327.4
3776   -132.9 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -48.3   -48.0 -0.00216         -0.00216   -44.9   -44.6
              C:60003 PR IS31G20.0 60105 PR ISLD3 345 1    2893
                Open 60003 PR IS31G20.0 60105 PR ISLD3 345 1                           0.00646  0.00000  -523.2  -523.2
3777   -132.4 L:34075 ELDORA 7 115 34077 IA FALS7 115 1         -61.7   -60.0 -0.01260         -0.01241   -60.2   -58.6
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                          -0.00164  0.11317   881.7   866.7
3778   -132.0 L:34054 GR JCT 5 161 34058 PERRY  5 161 1         117.2   112.0  0.03936          0.03623   105.0   100.2
              C:825                                        3771
                Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                          -0.00302 -0.09714  -545.7  -532.8
                Open 34014 ADAMS  5 161 60102 ADAMS  3 345 1                           0.00000  0.02245    -2.8    -5.8
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                          -0.02002 -0.14203  -525.7  -507.0
3780   -130.9 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         244.6   240.0  0.03548          0.03530   241.7   237.0
              C:62980 MCLEOD 4 230 63054 PANTHER4 230 1    3394
                Open 62980 MCLEOD 4 230 63054 PANTHER4 230 1                          -0.01082 -0.01700  -276.4  -274.2
3781   -130.7 L:60944 VIROQUA869.0 69306 THICKORY69.0 1         -47.4   -47.0 -0.00273         -0.00109   -26.7   -26.5
              C:885                                        3780
                Open 69507 SENECA 5 161 69511 BELLCTR5 161 1                          -0.06040  0.00408   129.4   128.9
                Open 69507 SENECA 5 161 69523 GENOA  5 161 1                           0.04528 -0.03083  -284.7  -280.7
3782   -130.4 L:34054 GR JCT 5 161 34058 PERRY  5 161 1         117.5   112.0  0.04209          0.03623   105.0   100.3
              C:34047 ANTA TP5 161 66560 CRESTON5 161 1     108
                Open 34047 ANTA TP5 161 66560 CRESTON5 161 1                           0.22908  0.02560    54.4    51.1
3783   -130.2 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         244.6   240.0  0.03530          0.03530   241.7   237.1
              C:60122 LAWRENC7 115 60834 LAWRENC869.0 1     992
                Open 60122 LAWRENC7 115 60834 LAWRENC869.0 1                           0.04692  0.00000    62.7    62.7
3784   -129.8 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -48.3   -48.0 -0.00216         -0.00216   -44.9   -44.6
              C:60004 PR IS32G20.0 60105 PR ISLD3 345 1    2894
                Open 60004 PR IS32G20.0 60105 PR ISLD3 345 1                           0.00646  0.00000  -522.2  -522.2
3785   -129.8 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -204.2  -200.0 -0.03251         -0.03224  -197.2  -193.0
              C:61906 MAPLE LF 161 61948 BYRON  5 161 1    3372
                Open 61906 MAPLE LF 161 61948 BYRON  5 161 1                           0.02263 -0.01203  -309.4  -307.8
3787   -128.6 L:34075 ELDORA 7 115 34077 IA FALS7 115 1         -61.6   -60.0 -0.01258         -0.01241   -60.2   -58.6
              C:885                                        3780
                Open 69507 SENECA 5 161 69511 BELLCTR5 161 1                           0.00188  0.00408   129.4   128.9
                Open 69507 SENECA 5 161 69523 GENOA  5 161 1                           0.00577 -0.03083  -284.7  -280.7
3789   -127.1 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -204.2  -200.0 -0.03336         -0.03224  -197.2  -193.1
              C:BLL-PRI/IVH3                               3638
                Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                           0.01611 -0.03964  -143.5  -138.5
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                          -0.00988  0.04835   476.6   470.4
3790   -126.7 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         244.5   240.0  0.03567          0.03530   241.7   237.2
              C:66574 SIOUXCY869.0 66593 J4IDAGR869.0 1    2527
                Open 66574 SIOUXCY869.0 66593 J4IDAGR869.0 1                           0.22051  0.00169    13.0    12.8
3791   -126.5 L:34075 ELDORA 7 115 34077 IA FALS7 115 1         -61.6   -60.0 -0.01261         -0.01241   -60.2   -58.6
              C:66565 SIOUXCY4 230 66567 DENISON4 230 1    2520
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                Open 66565 SIOUXCY4 230 66567 DENISON4 230 1                          -0.00570  0.03530   241.7   237.2
3793   -125.1 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          90.7    90.0  0.00587          0.00647    89.3    88.4
               C:34202 LUCAS  869.0 64100 KNXVL  869.0 1    2823
                Open 34202 LUCAS  869.0 64100 KNXVL  869.0 1                           0.21172 -0.00284     7.0     7.4
3794   -125.0 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -204.0  -200.0 -0.03224         -0.03224  -197.2  -193.2
               C:60110 WILMART7 115  8007 G261-CT215.0 1    2940
                Open 60110 WILMART7 115  8007 G261-CT215.0 1                           0.03995  0.00000  -170.5  -170.5
3795   -125.0 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -204.0  -200.0 -0.03224         -0.03224  -197.2  -193.2
               C:60110 WILMART7 115  8006 G261-CT115.0 1    2939
                Open 60110 WILMART7 115  8006 G261-CT115.0 1                           0.03995  0.00000  -170.5  -170.5
3796   -124.9 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         244.5   240.0  0.03588          0.03530   241.7   237.2
               C:34008 FOX LK 5 161 61932 RUTLAND5 161 1      28
                Open 34008 FOX LK 5 161 61932 RUTLAND5 161 1                           0.01213  0.04814   233.2   227.2
3797   -123.5 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         244.4   240.0  0.03582          0.03530   241.7   237.3
               C:34010 HAYWARD5 161 34013 WNBAGOS5 161 1      33
                Open 34010 HAYWARD5 161 34013 WNBAGOS5 161 1                          -0.01564 -0.03350  -177.1  -172.9
3799   -121.3 L:34054 GR JCT 5 161 34058 PERRY  5 161 1         116.7   112.0  0.03854          0.03623   105.0   100.6
               C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                          -0.01658 -0.13973  -702.5  -685.6
3801   -118.2 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         244.2   240.0  0.03569          0.03530   241.7   237.5
               C:BLL-PRI/IVH3                                 3638
                Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                          -0.00511 -0.03964  -143.5  -138.9
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                           0.00384  0.04835   476.6   470.9
3802   -117.7 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         244.2   240.0  0.03530          0.03530   241.7   237.5
               C:X0897-0898o1                                 3647
                Open 60193 BLUE LK7 115 60215 HYLNDLK7 115 1                          -0.00041 -0.00067   172.8   172.8
                Open 60215 HYLNDLK7 115 60261 DEANLAK7 115 1     NA
                Open 60244 SCOTTCO7 115 60261 DEANLAK7 115 1                           0.02265  0.00000   113.6   113.6
3803   -116.1 L:34051 TOLEDO 7 115 34083 BL.PLN.7 115 1          61.1    59.0  0.01783          0.01539    52.0    50.2
               C:34018 HAZLTON3 345 60102 ADAMS  3 345 1      56
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                          -0.01719 -0.14203  -525.7  -509.2
3804   -115.9 L:34051 TOLEDO 7 115 34083 BL.PLN.7 115 1          61.1    59.0  0.01783          0.01539    52.0    50.2
               C:825                                          3771
                Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                           0.00002 -0.09714  -545.7  -534.4
                Open 34014 ADAMS  5 161 60102 ADAMS  3 345 1                           0.00000  0.02245    -2.8    -5.5
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                          -0.01720 -0.14203  -525.7  -509.2
3805   -115.4 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          90.8    90.0  0.00662          0.00647    89.3    88.5
               C:PRI-BYN/RRK3                                 3646
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                           0.00196  0.07639   767.2   758.4
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                           0.00004 -0.01725   152.8   154.8
3806   -115.2 L:66511 GAVINS 7 115 64751 BLMFLD 7 115 1          80.3    80.0  0.00221          0.00276    62.2    61.9
               C:64845 HARTGTN7 115 66511 GAVINS 7 115 1    3484
                Open 64845 HARTGTN7 115 66511 GAVINS 7 115 1                          -0.30851  0.00177   -58.6   -58.8
3808   -114.4 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -203.8  -200.0 -0.03277         -0.03224  -197.2  -193.5
               C:34385 MC NWT 869.0 34387 MCLPCSS869.0 1     541
                Open 34385 MC NWT 869.0 34387 MCLPCSS869.0 1                          -0.26627  0.00199    24.5    24.3
3809   -113.6 L:34054 GR JCT 5 161 34058 PERRY  5 161 1         116.5   112.0  0.03932          0.03623   105.0   100.9
               C:34018 HAZLTON3 345 60102 ADAMS  3 345 1      56
                Open 34018 HAZLTON3 345 60102 ADAMS  3 345 1                          -0.02177 -0.14203  -525.7  -509.6
3810   -113.3 L:34075 ELDORA 7 115 34077 IA FALS7 115 1         -61.4   -60.0 -0.01248         -0.01241   -60.2   -58.8
               C:66506 FTTHOMP3 345 66571 GR ISLD3 345 1    3552
                Open 66506 FTTHOMP3 345 66571 GR ISLD3 345 1                          -0.00281  0.02536   425.1   422.3
3811   -112.9 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          90.7    90.0  0.00662          0.00647    89.3    88.5
               C:60105 PR ISLD3 345 61950 BYRON  3 345 1     951
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                           0.00195  0.07639   767.2   758.6
3813   -111.5 L:61666 FONDULAC 115 61676 HIBBARD7 115 1          67.3    67.0  0.00310          0.00243    57.6    57.3
               C:050    1                                     3715
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.01171  0.06362   901.3   894.2
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.00125 -0.06704  -692.1  -684.6
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          -0.00000 -0.00175    77.5    77.7
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                          -0.00251 -0.00300     0.0     0.3
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                          -0.00235 -0.00148   -42.6   -42.5
3815   -109.7 L:60784 BELPLAN869.0 62675 ASSMPTN869.0 1         -19.4   -19.3 -0.00094
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                Base Case
3816   -109.7 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -319.6  -318.0 -0.01447         -0.01397  -311.5  -310.0
               C:63325 BROWNSV4 230 63327 HANKSON4 230 1    2189
                Open 63325 BROWNSV4 230 63327 HANKSON4 230 1                           -0.08300  0.00604    97.2    96.5
3818   -108.7 L:34075 ELDORA 7 115 34077 IA FALS7 115 1         -61.4   -60.0 -0.01269         -0.01241   -60.2   -58.9
               C:66561 DENISON5 161 66567 DENISON4 230 1    2513
                Open 66561 DENISON5 161 66567 DENISON4 230 1                            0.00833 -0.03279  -139.3  -135.8
3819   -108.7 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.9   240.0  0.03557          0.03530   241.7   237.8
               C:885                                        3780
                Open 69507 SENECA 5 161 69511 BELLCTR5 161 1                           -0.00363  0.00408   129.4   128.9
                Open 69507 SENECA 5 161 69523 GENOA  5 161 1                           -0.00942 -0.03083  -284.7  -281.4
3820   -108.6 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.8   240.0  0.03530          0.03530   241.7   237.8
               C:34575 CRESTON934.5 34592 SLAKES 869.0 1    2857
                Open 34575 CRESTON934.5 34592 SLAKES 869.0 1                           -0.08378  0.00000   -26.0   -26.0
3823   -106.9 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.8   240.0  0.03572          0.03530   241.7   237.9
               C:700    1                                   3737
                Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                           -0.00529 -0.03964  -143.5  -139.3
                Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                            0.00234  0.04835   476.6   471.4
                Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                            0.00185  0.05190   157.6   152.1
3824   -106.5 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.8   240.0  0.03530          0.03530   241.7   237.9
               C:MOL-RIV/CNC7                               3679
                Open 60203 COON CK7 115 60229 MOORELK7 115 1                            0.00016  0.00098   139.6   139.5
                Open 60229 MOORELK7 115 60240 RIVRSID7 115 1                            0.02167  0.00000    96.2    96.2
3826   -105.9 L:62934 HOWARDL869.0 62943 VICTOR 869.0 1         -17.4   -17.3 -0.00078         -0.00089   -19.8   -19.7
               C:022       1                                3703
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                            0.00266  0.02476   409.3   406.7
                Open 60221 KOLMNLK3 345 60251 TERMINL3 345 1                           -0.00047 -0.02267    47.8    50.2
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                            0.00219  0.01934   627.4   625.4
                Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                           -0.00011  0.00036   207.1   207.1
                Open 60251 TERMINL3 345 61492 TERMID1Y 345 1     NA
                Open 60252 TERMINL7 115 61492 TERMID1Y 345 1                           -0.00000  0.00166  -335.8  -336.0
                Open 61187 TERTER1934.5 61492 TERMID1Y 345 1     NA
                Open 60251 TERMINL3 345 61491 TERMID2Y 345 1     NA
                Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                            0.00179  0.00000     0.3     0.3
                Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
3829   -105.1 L:34075 ELDORA 7 115 34077 IA FALS7 115 1         -61.3   -60.0 -0.01269         -0.01241   -60.2   -58.9
               C:34047 ANTA TP5 161 66561 DENISON5 161 1     109
                Open 34047 ANTA TP5 161 66561 DENISON5 161 1                            0.00833 -0.03279  -133.8  -130.4
3831   -103.2 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          80.6    80.0  0.00593          0.00593    81.8    81.2
               C:60001 SHERC32G24.0 60160 SHERCO 3 345 1    2891
                Open 60001 SHERC32G24.0 60160 SHERCO 3 345 1                            0.00206  0.00000  -568.8  -568.8
3832   -103.1 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -203.4  -200.0 -0.03262         -0.03224  -197.2  -193.9
               C:62980 MCLEOD 4 230 63054 PANTHER4 230 1    3394
                Open 62980 MCLEOD 4 230 63054 PANTHER4 230 1                            0.02223 -0.01700  -276.4  -274.6
3833   -102.9 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.6   240.0  0.03530          0.03530   241.7   238.0
               C:60834 LAWRENC869.0 60863 SF M2 T869.0 1    1491
                Open 60834 LAWRENC869.0 60863 SF M2 T869.0 1                            0.04692  0.00000    42.2    42.2
3834   -102.6 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.7   240.0  0.03597          0.03530   241.7   238.0
               C:LAKF-FOX DBL                               3781
                Open 34007 LAKEFLD5 161 34008 FOX LK 5 161 1                            0.01249  0.02660    78.8    76.1
                Open 34007 LAKEFLD5 161 34008 FOX LK 5 161 2                            0.01249  0.02728    84.2    81.4
3835   -102.1 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.6   240.0  0.03540          0.03530   241.7   238.0
               C:022       6                                3707
                Open 60186 AS KING3 345 60199 CHIS CO3 345 1                           -0.00243 -0.00535  -490.2  -489.6
                Open 60186 AS KING3 345 60221 KOLMNLK3 345 1                           -0.00233 -0.03910  -330.7  -326.7
3836   -102.1 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.6   240.0  0.03540          0.03530   241.7   238.0
               C:ASK-CHI/KOL3                               3641
                Open 60186 AS KING3 345 60199 CHIS CO3 345 1                           -0.00243 -0.00535  -490.2  -489.6
                Open 60186 AS KING3 345 60221 KOLMNLK3 345 1                           -0.00233 -0.03910  -330.7  -326.7
3837   -101.6 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          80.6    80.0  0.00593          0.00593    81.8    81.2
               C:60005 MNTCE31G22.0 60151 MNTCELO3 345 1    2895
                Open 60005 MNTCE31G22.0 60151 MNTCELO3 345 1                            0.00207  0.00000  -571.4  -571.4
3838   -100.9 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.6   240.0  0.03608          0.03530   241.7   238.1
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                C:63895 MONONA 869.0 66595 J9UTE  869.0 1    3473
                  Open 63895 MONONA 869.0 66595 J9UTE  869.0 1                          0.21338  0.00368     9.3     8.9
3839   -100.8 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.6   240.0  0.03558          0.03530   241.7   238.1
                C:34016 EMERY  5 161 64252 FLOYD  5 161 1    2719
                  Open 34016 EMERY  5 161 64252 FLOYD  5 161 1                          0.00816  0.03409   236.6   233.2
3840   -100.0 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -203.3  -200.0 -0.03342         -0.03224  -197.2  -194.0
                C:700    1                                   3737
                  Open 60105 PR ISLD3 345 60192 BLUE LK3 345 1                          0.01651 -0.03964  -143.5  -139.6
                  Open 60192 BLUE LK3 345 60217 INVRHLS3 345 1                         -0.00651  0.04835   476.6   471.8
                  Open 60217 INVRHLS3 345 60236 REDROCK3 345 1                         -0.00416  0.05190   157.6   152.4
3841   -100.0 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -78.6   -77.0 -0.01565         -0.01539   -75.2   -73.7
                C:ASK-RRK/ECL3                               3642
                  Open 60186 AS KING3 345 60236 REDROCK3 345 1                         -0.00027 -0.01969   140.3   142.3
                  Open 60186 AS KING3 345 60304 EAU CL 3 345 1                         -0.00202  0.06362   901.3   894.9
                  Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          0.00216 -0.06704  -692.1  -685.4
3842    -99.4 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -78.6   -77.0 -0.01589         -0.01539   -75.2   -73.7
                C:61950 BYRON  3 345 63032 PL VLLY3 345 1    3375
                  Open 61950 BYRON  3 345 63032 PL VLLY3 345 1                         -0.00593  0.08464   567.6   559.2
3843    -99.2 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          80.6    80.0  0.00593          0.00593    81.8    81.2
                C:60000 SHERC31G24.0 60160 SHERCO 3 345 1    2890
                  Open 60000 SHERC31G24.0 60160 SHERCO 3 345 1                          0.00206  0.00000  -580.3  -580.3
3844    -98.9 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.5   240.0  0.03548          0.03530   241.7   238.2
                C:BYN-WOW/KAN5                               3653
                  Open 61948 BYRON  5 161 61964 OWATNNA5 161 1                         -0.00915 -0.02028  -157.4  -155.4
                  Open 60799 KASSON 869.0 61161 BYRON  869.0 1                          0.01549  0.00000    26.8    26.8
3845    -98.9 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -319.4  -318.0 -0.01442         -0.01397  -311.5  -310.1
                C:60728 FRANKLN869.0 60770 BIRCH R869.0 C1   3094
                  Open 60728 FRANKLN869.0 60770 BIRCH R869.0 C1                        -0.38308  0.00118    20.6    20.5
3846    -98.6 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -203.4  -200.0 -0.03404         -0.03224  -197.2  -194.0
                C:34061 BNE JCT5 161 64205 FT.DODG5 161 1    2756
                  Open 34061 BNE JCT5 161 64205 FT.DODG5 161 1                          0.04711 -0.03824  -130.3  -126.5
3847    -98.5 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.5   240.0  0.03542          0.03530   241.7   238.2
                C:60189 BLK DOG4 230 60190 BLK DOG7 115 C1   1120
                  Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                         0.00955  0.01298   192.3   191.0
3848    -98.5 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.5   240.0  0.03542          0.03530   241.7   238.2
                C:810   C1                                   3767
                  Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                         -0.00955 -0.01298  -192.3  -191.0
                  Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                         0.02160  0.00000    -0.0    -0.0
3849    -98.5 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.5   240.0  0.03542          0.03530   241.7   238.2
                C:60189 BLK DOG4 230 62980 MCLEOD 4 230 1    1121
                  Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                         -0.00955 -0.01298  -192.3  -191.0
3850    -98.5 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.5   240.0  0.03530          0.03530   241.7   238.2
                C:67101 ANTELOP3 345 67218 AVSDC7TY 345 1    2598
                  Open 67101 ANTELOP3 345 67218 AVSDC7TY 345 1                          0.03471  0.00000    52.5    52.5
3851    -97.9 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -78.6   -77.0 -0.01661         -0.01539   -75.2   -73.7
                C:34185 POWESHK5 161 34191 REASNOR5 161 1     300
                  Open 34185 POWESHK5 161 34191 REASNOR5 161 1                          0.02583 -0.04760  -132.1  -127.4
3852    -97.9 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.7   240.0  0.03796          0.03530   241.7   238.2
                C:34006 LAKEFLD3 345 60331 LKFLDXL3 345 1      21
                  Open 34006 LAKEFLD3 345 60331 LKFLDXL3 345 1                          0.01937  0.13720   106.4    93.0
3853    -97.7 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.5   240.0  0.03540          0.03530   241.7   238.2
                C:500                                        3718
                  Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                         -0.00968 -0.01028  -216.5  -215.5
                  Open 62427 WILLMAR869.0 63050 WILLMAR4 230 1                          0.00758  0.00004   -38.4   -38.4
3854    -97.2 L:34075 ELDORA 7 115 34077 IA FALS7 115 1         -61.2   -60.0 -0.01261         -0.01241   -60.2   -59.0
                C:34010 HAYWARD5 161 34015 LIME CK5 161 1      35
                  Open 34010 HAYWARD5 161 34015 LIME CK5 161 1                          0.01885 -0.01032   -53.4   -52.4
3855    -96.0 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.4   240.0  0.03534          0.03530   241.7   238.3
                C:64878 KEYSTON3 345 67133 SIDNEY 3 345 1    3487
                  Open 64878 KEYSTON3 345 67133 SIDNEY 3 345 1                         -0.00564 -0.00676  -308.6  -308.0
3856    -95.6 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.4   240.0  0.03530          0.03530   241.7   238.3
                C:60851 SX FLS 869.0 60863 SF M2 T869.0 1    1506
                  Open 60851 SX FLS 869.0 60863 SF M2 T869.0 1                          0.04692  0.00000    36.7    36.7
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3857    -95.5 L:34054 GR JCT 5 161 63771 DRAGER 5 161 1        -143.7  -140.0 -0.03877         -0.03698  -123.9  -120.4
              C:34047 ANTA TP5 161 34048 ANITA  5 161 1     107
                Open 34047 ANTA TP5 161 34048 ANITA  5 161 1                          -0.24949  0.00719    79.4    78.7
3858    -95.2 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.4   240.0  0.03530          0.03530   241.7   238.3
              C:66287 RASMUSN869.0 66536 RASMUSN4 230 1    2285
                Open 66287 RASMUSN869.0 66536 RASMUSN4 230 1                           0.07192  0.00000    23.7    23.7
3859    -95.1 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.4   240.0  0.03537          0.03530   241.7   238.3
              C:CNC-KOL/TER3                               3633
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                           0.00175  0.02476   409.3   407.0
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                           0.00159  0.01934   627.4   625.6
3860    -94.7 L:34650 ARISTAP869.0 34653 CRESTN8_69.0 1         -24.3   -24.0 -0.00345         -0.00345   -20.0   -19.7
              C:34146 OTTUMW1G24.0 34189 OTTUMWA5 161 1    2809
                Open 34146 OTTUMW1G24.0 34189 OTTUMWA5 161 1                           0.00932  0.00000  -466.3  -466.3
3862    -93.9 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          90.6    90.0  0.00661          0.00647    89.3    88.6
              C:050    3                                   3717
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.00193 -0.06704  -692.1  -685.8
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                          -0.00094 -0.00300     0.0     0.3
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                          -0.00073 -0.00148   -42.6   -42.5
3865    -93.1 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.3   240.0  0.03539          0.03530   241.7   238.4
              C:60356 PAYNES 4 230 63050 WILLMAR4 230 C1   1365
                Open 60356 PAYNES 4 230 63050 WILLMAR4 230 C1                         -0.00935 -0.01032  -175.7  -174.7
3866    -93.1 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.3   240.0  0.03539          0.03530   241.7   238.4
              C:60156 PYNSVIL7 115 60356 PAYNES 4 230 C1   1069
                Open 60156 PYNSVIL7 115 60356 PAYNES 4 230 C1                         -0.00935 -0.01032  -175.7  -174.7
3867    -92.9 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.3   240.0  0.03538          0.03530   241.7   238.4
              C:022       3                                3704
                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                           0.00184  0.02476   409.3   407.0
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                           0.00171  0.01934   627.4   625.6
                Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                          -0.00017  0.00036   207.1   207.1
                Open 60251 TERMINL3 345 61491 TERMID2Y 345 1                          -0.00047 -0.00168   339.2   339.4
                Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                           0.02141  0.00000     0.2     0.2
                Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
3868    -92.7 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.3   240.0  0.03545          0.03530   241.7   238.4
              C:65009 WAYSIDE4 230 66484 NUNDRWD4 230 1    2200
                Open 65009 WAYSIDE4 230 66484 NUNDRWD4 230 1                          -0.01898 -0.00774   -85.9   -85.2
3869    -92.4 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.3   240.0  0.03536          0.03530   241.7   238.4
              C:63329 WAHPETN4 230 63331 FERGSFL4 230 1    2192
                Open 63329 WAHPETN4 230 63331 FERGSFL4 230 1                           0.00609  0.01091   264.8   263.8
3870    -92.4 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -78.4   -77.0 -0.01565         -0.01539   -75.2   -73.8
              C:050    1                                   3715
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          -0.00193  0.06362   901.3   895.4
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.00217 -0.06704  -692.1  -685.9
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                           0.00000 -0.00175    77.5    77.6
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                           0.00039 -0.00300     0.0     0.3
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                          -0.00015 -0.00148   -42.6   -42.5
3871    -92.3 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -78.4   -77.0 -0.01565         -0.01539   -75.2   -73.8
              C:050    2                                   3716
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          -0.00193  0.06362   901.3   895.4
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.00215 -0.06704  -692.1  -685.9
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                           0.00000 -0.00175    77.5    77.6
3873    -91.2 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -202.9  -200.0 -0.03224         -0.03224  -197.2  -194.3
              C:67105 LELANDO3 345 67111 LELAN32G20.0 1    3588
                Open 67105 LELANDO3 345 67111 LELAN32G20.0 1                           0.01304  0.00000  -438.9  -438.9
3874    -90.4 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.2   240.0  0.03530          0.03530   241.7   238.5
              C:60238 REDROCK7 115 60336 NSSJCT 7 115 1    1236
                Open 60238 REDROCK7 115 60336 NSSJCT 7 115 1                           0.02114  0.00000    72.7    72.7
3875    -90.4 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.2   240.0  0.03530          0.03530   241.7   238.5
              C:60336 NSSJCT 7 115 60337 NSSTAP 7 115 1    1361
                Open 60336 NSSJCT 7 115 60337 NSSTAP 7 115 1                           0.02114  0.00000    72.7    72.7
3876    -90.4 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.0   240.0  0.03303          0.03530   241.7   238.5
              C:34137 TRIBOJI5 161 66563 SPENCER5 161 1     247
                Open 34137 TRIBOJI5 161 66563 SPENCER5 161 1                           0.00823 -0.27510   161.9   186.7
3877    -89.9 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -203.6  -200.0 -0.04052         -0.03224  -197.2  -194.3
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              C:34006 LAKEFLD3 345 60331 LKFLDXL3 345 1      21
                Open 34006 LAKEFLD3 345 60331 LKFLDXL3 345 1                          -0.06039  0.13720   106.4    94.1
3878    -89.6 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.2   240.0  0.03530          0.03530   241.7   238.5
              C:RRK-BCK/MAX7                                 3671
                Open 60238 REDROCK7 115 60266 BATTCRK7 115 P2                         -0.00055 -0.00337    45.3    45.6
                Open 60238 REDROCK7 115 60336 NSSJCT 7 115 1                           0.02109  0.00000    72.7    72.7
3879    -89.5 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.1   240.0  0.03494          0.03530   241.7   238.5
              C:785                                          3763
                Open 60128 SPLT RK5 161 60129 SPLT RK7 115 1                          -0.01975  0.01915   -36.2   -37.9
                Open 60128 SPLT RK5 161  6012 G253INT  161 1     NA
                Open 34003 MAGNLIA5 161  6012 G253INT  161 1                           0.02771  0.00000   -11.5   -11.5
                Open 34003 MAGNLIA5 161 34004 ELK    5 161 1                          -0.00428 -0.00500    42.0    42.5
                Open 34004 ELK    5 161 34005 HRN LK 5 161 1                           0.03199  0.00000    39.1    39.1
                Open 34005 HRN LK 5 161 34225 HERONLK869.0 1                           0.00031  0.00100    15.9    15.8
3880    -89.4 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -78.4   -77.0 -0.01596         -0.01539   -75.2   -73.8
              C:60102 ADAMS  3 345 63032 PL VLLY3 345 1    2933
                Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                           0.00589 -0.09714  -545.7  -537.0
3881    -89.3 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.2   240.0  0.03530          0.03530   241.7   238.5
              C:HYL-BLL/DLK7                                 3648
                Open 60193 BLUE LK7 115 60215 HYLNDLK7 115 1                          -0.00041 -0.00067   172.8   172.8
                Open 60215 HYLNDLK7 115 60261 DEANLAK7 115 1                           0.02265  0.00000    69.2    69.2
3882    -88.5 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.1   240.0  0.03548          0.03530   241.7   238.5
              C:60265 LOON TP7 115 60830 EASTWD18 115 P1   1275
                Open 60265 LOON TP7 115 60830 EASTWD18 115 P1                         -0.00711 -0.02555  -209.2  -206.9
3884    -88.4 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          90.6    90.0  0.00677          0.00647    89.3    88.7
              C:34585 LORIMRR869.0 34586 LORIMOR869.0 1     685
                Open 34585 LORIMRR869.0 34586 LORIMOR869.0 1                           0.04010  0.00726    33.5    32.9
3885    -88.4 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          90.6    90.0  0.00677          0.00647    89.3    88.7
              C:34585 LORIMRR869.0 34588 SLAKEN 869.0 1     686
                Open 34585 LORIMRR869.0 34588 SLAKEN 869.0 1                          -0.04010 -0.00726   -33.5   -32.9
3886    -87.4 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          90.6    90.0  0.00657          0.00647    89.3    88.7
              C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.00147  0.06362   901.3   895.7
3887    -87.4 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.1   240.0  0.03533          0.03530   241.7   238.6
              C:WLR-ASK/PNL7                                 3690
                Open 60187 AS KING7 115 60325 WILOWRV7 115 1                           0.00354  0.00755   169.3   168.6
                Open 60313 PINE LK7 115 60325 WILOWRV7 115 1                           0.01761  0.00000    47.3    47.3
3888    -87.2 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.1   240.0  0.03548          0.03530   241.7   238.6
              C:61948 BYRON  5 161 61964 OWATNNA5 161 1    1696
                Open 61948 BYRON  5 161 61964 OWATNNA5 161 1                          -0.00915 -0.02028  -157.4  -155.7
3889    -87.0 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -202.8  -200.0 -0.03178         -0.03224  -197.2  -194.4
              C:34006 LAKEFLD3 345 60286 NOBLES 3 345 C1     20
                Open 34006 LAKEFLD3 345 60286 NOBLES 3 345 C1                          0.01829  0.02531  -303.2  -305.4
3892    -86.8 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.1   240.0  0.03531          0.03530   241.7   238.6
              C:715       2                                  3746
                Open 60243 SCOTTAP7 115 62666 GLNDALE7 115 1                           0.00192  0.00356    48.9    48.6
                Open 60242 SAVAGE 7 115 62668 EGLCKTP7 115 1     NA
                Open 62666 GLNDALE7 115 62672 GLNDALE869.0 1                           0.00004  0.00008    25.1    25.0
                Open 60243 SCOTTAP7 115 60244 SCOTTCO7 115 1                           0.00141  0.00158    24.8    24.6
                Open 60194 CARVRCO7 115 60243 SCOTTAP7 115 1                           0.02383  0.00000     1.5     1.5
                Open 60194 CARVRCO7 115 60931 CARVRCO869.0 1                           0.00008 -0.00021    19.7    19.7
                Open 60190 BLK DOG7 115 60242 SAVAGE 7 115 1                           0.00043 -0.00055    29.6    29.6
                Open 62668 EGLCKTP7 115 62975 SHAKOPE7 115 1     NA
                Open 60244 SCOTTCO7 115 62975 SHAKOPE7 115 1                           0.02242  0.00000    55.2    55.2
                Open 60244 SCOTTCO7 115 60890 SCOTTCO869.0 2                          -0.00033 -0.00079    23.8    23.9
3893    -86.3 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.1   240.0  0.03539          0.03530   241.7   238.6
              C:66530 WATERTN4 230 66550 GRANITF4 230 1    2501
                Open 66530 WATERTN4 230 66550 GRANITF4 230 1                           0.00731  0.01320   191.8   190.7
3894    -86.3 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.1   240.0  0.03536          0.03530   241.7   238.6
              C:63050 WILLMAR4 230 66550 GRANITF4 230 1    2051
                Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                          -0.00645 -0.01028  -216.5  -215.7
3895    -86.1 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.0   240.0  0.03540          0.03530   241.7   238.6
              C:022       1                                  3703
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                Open 60202 COON CK3 345 60221 KOLMNLK3 345 1                          0.00216  0.02476   409.3   407.2
                Open 60221 KOLMNLK3 345 60251 TERMINL3 345 1                         -0.00114 -0.02267    47.8    49.7
                Open 60202 COON CK3 345 60251 TERMINL3 345 1                          0.00101  0.01934   627.4   625.8
                Open 60221 KOLMNLK3 345 60222 KOLMNLK7 115 1                         -0.00038  0.00036   207.1   207.1
                Open 60251 TERMINL3 345 61492 TERMID1Y 345 1     NA
                Open 60252 TERMINL7 115 61492 TERMID1Y 345 1                         -0.00000  0.00166  -335.8  -336.0
                Open 61187 TERTER1934.5 61492 TERMID1Y 345 1     NA
                Open 60251 TERMINL3 345 61491 TERMID2Y 345 1     NA
                Open 60252 TERMINL7 115 61491 TERMID2Y 345 1                          0.02175  0.00000     0.3     0.3
                Open 61188 TERTER2934.5 61491 TERMID2Y 345 1     NA
3896    -85.8 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.0   240.0  0.03530          0.03530   241.7   238.6
              C:67101 ANTELOP3 345 67212 AVSDC1TY 345 1    2597
                Open 67101 ANTELOP3 345 67212 AVSDC1TY 345 1                          0.03471  0.00000    39.6    39.6
3897    -85.2 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          90.6    90.0  0.00677          0.00647    89.3    88.7
              C:34586 LORIMOR869.0 34587 MURRAY 869.0 1     687
                Open 34586 LORIMOR869.0 34587 MURRAY 869.0 1                          0.04010  0.00726    33.0    32.4
3898    -84.8 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.0   240.0  0.03549          0.03530   241.7   238.7
              C:WATERT1T                                   3783
                Open 66236 WATERT1T 345 66237 WATERT1913.8 1     NA
                Open 66236 WATERT1T 345 66529 WATERTN3 345 1                         -0.00673 -0.02863  -201.3  -198.9
                Open 66236 WATERT1T 345 66530 WATERTN4 230 1                          0.03501  0.00000     0.1     0.1
3899    -84.8 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.0   240.0  0.03549          0.03530   241.7   238.7
              C:66236 WATERT1T 345 66529 WATERTN3 345 1    2236
                Open 66236 WATERT1T 345 66529 WATERTN3 345 1                         -0.00673 -0.02863  -201.3  -198.9
3900    -84.8 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.0   240.0  0.03549          0.03530   241.7   238.7
              C:66236 WATERT1T 345 66530 WATERTN4 230 1    2237
                Open 66236 WATERT1T 345 66530 WATERTN4 230 1                          0.00673  0.02863   201.3   198.8
3901    -84.8 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.0   240.0  0.03530          0.03530   241.7   238.7
              C:60146 GRANCTY7 115 60161 STREGIS7 115 1    1043
                Open 60146 GRANCTY7 115 60161 STREGIS7 115 1                          0.02356  0.00000    56.8    56.8
3902    -84.6 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.0   240.0  0.03536          0.03530   241.7   238.7
              C:63051 HENNING4 230 63331 FERGSFL4 230 1    2053
                Open 63051 HENNING4 230 63331 FERGSFL4 230 1                         -0.00608 -0.01089  -219.8  -218.9
3903    -84.4 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.0   240.0  0.03531          0.03530   241.7   238.7
              C:63369 JAMESTN3 345 66791 CENTER 3 345 1    2199
                Open 63369 JAMESTN3 345 66791 CENTER 3 345 1                         -0.00314 -0.00471  -422.3  -421.9
3904    -84.3 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.0   240.0  0.03530          0.03530   241.7   238.7
              C:535       1                                3721
                Open 60134 SHEYNNE7 115 60135 CASS CO7 115 1                         -0.00005 -0.00005    29.4    29.4
                Open 60134 SHEYNNE7 115 66761 MODEROW7 115 1                         -0.00005 -0.00005    33.9    33.9
                Open 60135 CASS CO7 115 66761 MODEROW7 115 1     NA
                Open 60135 CASS CO7 115 60137 REDRIVR7 115 1                          0.03092  0.00000    42.8    42.8
3905    -84.2 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.0   240.0  0.03538          0.03530   241.7   238.7
              C:61611 WINGRIV4 230 63052 INMAN  4 230 1    3357
                Open 61611 WINGRIV4 230 63052 INMAN  4 230 1                         -0.00676 -0.01196  -196.1  -195.1
3906    -83.4 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         242.9   240.0  0.03530          0.03530   241.7   238.7
              C:62123 WOODCRT869.0 62132 PRKWOOD869.0 1    1764
                Open 62123 WOODCRT869.0 62132 PRKWOOD869.0 1                          0.02195  0.00000    58.7    58.7
3907    -83.3 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         242.9   240.0  0.03530          0.03530   241.7   238.7
              C:695                                        3736
                Open 62925 DICKNSN7 115 62926 DCKSNSS7 115 1                          0.00012  0.00122    26.6    26.5
                Open 60155 PULASKI7 115 62926 DCKSNSS7 115 1     NA
                Open 60153 MNTCELO7 115 60155 PULASKI7 115 1                          0.02254  0.00000    57.0    57.0
3908    -83.3 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         242.9   240.0  0.03535          0.03530   241.7   238.7
              C:66503 BLAIR  4 230 66550 GRANITF4 230 1    2447
                Open 66503 BLAIR  4 230 66550 GRANITF4 230 1                          0.00487  0.00970   264.5   263.7
3909    -82.9 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         242.9   240.0  0.03536          0.03530   241.7   238.7
              C:63051 HENNING4 230 63052 INMAN  4 230 1    2052
                Open 63051 HENNING4 230 63052 INMAN  4 230 1                          0.00608  0.01089   210.2   209.3
3910    -82.8 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          90.5    90.0  0.00660          0.00647    89.3    88.7
              C:39244 ARP 345  345 60304 EAU CL 3 345 1    2888
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.00187 -0.06704  -692.1  -686.6
3911    -82.7 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         243.0   240.0  0.03649          0.03530   241.7   238.7
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              C:66583 DENISON869.0 66595 J9UTE  869.0 1    2532
                Open 66583 DENISON869.0 66595 J9UTE  869.0 1                          -0.32543 -0.00367    -4.2    -3.9
3912    -82.6 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         242.9   240.0  0.03534          0.03530   241.7   238.7
              C:60133 SHEYNNE4 230 63336 AUDUBON4 230 1    1013
                Open 60133 SHEYNNE4 230 63336 AUDUBON4 230 1                           0.00499  0.00860   253.4   252.7
3913    -82.5 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         242.9   240.0  0.03530          0.03530   241.7   238.7
              C:715       1                                3745
                Open 60200 BLK DG27 115 62666 GLNDALE7 115 1                          -0.00064 -0.00339     1.6     1.9
                Open 60190 BLK DOG7 115 60242 SAVAGE 7 115 1                           0.00023 -0.00055    29.6    29.6
                Open 62666 GLNDALE7 115 62672 GLNDALE869.0 2                           0.00025  0.00008    25.1    25.0
                Open 60242 SAVAGE 7 115 62668 EGLCKTP7 115 1     NA
                Open 62668 EGLCKTP7 115 62975 SHAKOPE7 115 1     NA
                Open 60244 SCOTTCO7 115 62975 SHAKOPE7 115 1                           0.02264  0.00000    55.2    55.2
                Open 60244 SCOTTCO7 115 60890 SCOTTCO869.0 2                          -0.00015 -0.00079    23.8    23.9
3914    -82.5 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -78.3   -77.0 -0.01584         -0.01539   -75.2   -73.9
              C:34020 HAZL S 5 161 34135 DUNDEE 5 161 1      60
                Open 34020 HAZL S 5 161 34135 DUNDEE 5 161 1                          -0.01487  0.03042   207.8   205.3
3915    -82.3 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         242.9   240.0  0.03530          0.03530   241.7   238.8
              C:715       5                                3749
                Open 60190 BLK DOG7 115 60242 SAVAGE 7 115 1                           0.00039 -0.00055    29.6    29.6
                Open 60242 SAVAGE 7 115 62668 EGLCKTP7 115 1     NA
                Open 62668 EGLCKTP7 115 62975 SHAKOPE7 115 1     NA
                Open 60244 SCOTTCO7 115 62975 SHAKOPE7 115 1                           0.02251  0.00000    55.2    55.2
                Open 60244 SCOTTCO7 115 60890 SCOTTCO869.0 2                          -0.00019 -0.00079    23.8    23.9
3916    -82.2 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -202.7  -200.0 -0.03295         -0.03224  -197.2  -194.6
              C:61948 BYRON  5 161 61964 OWATNNA5 161 1    1696
                Open 61948 BYRON  5 161 61964 OWATNNA5 161 1                           0.03488 -0.02028  -157.4  -155.8
3917    -81.9*L:66565 SIOUXCY4 230 66567 DENISON4 230 1         242.9   240.0  0.03573          0.03530   241.7   238.8
              C:66594 J5ONAWA869.0 66596 J13WDBN869.0 1    2545
                Open 66594 J5ONAWA869.0 66596 J13WDBN869.0 1                           0.11699  0.00367    10.9    10.6
3923    -79.9 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -320.0  -318.0 -0.02488         -0.01397  -311.5  -310.4
              C:34006 LAKEFLD3 345 60331 LKFLDXL3 345 1      21
                Open 34006 LAKEFLD3 345 60331 LKFLDXL3 345 1                          -0.07955  0.13720   106.4    95.4
3924    -79.8 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -202.6  -200.0 -0.03224         -0.03224  -197.2  -194.6
              C:67101 ANTELOP3 345 67107 ANTEL32G24.0 1    3586
                Open 67101 ANTELOP3 345 67107 ANTEL32G24.0 1                           0.01282  0.00000  -417.8  -417.8
3925    -79.8 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -202.6  -200.0 -0.03224         -0.03224  -197.2  -194.6
              C:67101 ANTELOP3 345 67103 ANTEL31G24.0 1    3585
                Open 67101 ANTELOP3 345 67103 ANTEL31G24.0 1                           0.01282  0.00000  -417.8  -417.8
3928    -78.5 L:34051 TOLEDO 7 115 34083 BL.PLN.7 115 1          60.2    59.0  0.01579          0.01539    52.0    50.8
              C:34068 M-TOWN 5 161 34528 M-TOWN Y 161 1     153
                Open 34068 M-TOWN 5 161 34528 M-TOWN Y 161 1                          -0.21214 -0.00190   -38.7   -38.5
3929    -78.5 L:34051 TOLEDO 7 115 34083 BL.PLN.7 115 1          60.2    59.0  0.01579          0.01539    52.0    50.8
              C:34066 M-TOWN 7 115 34528 M-TOWN Y 161 1     147
                Open 34066 M-TOWN 7 115 34528 M-TOWN Y 161 1                           0.21214  0.00190    38.7    38.5
3930    -78.5 L:34051 TOLEDO 7 115 34083 BL.PLN.7 115 1          60.6    59.0  0.02003          0.01539    52.0    50.8
              C:34018 HAZLTON3 345 34093 ARNOLD 3 345 1      55
                Open 34018 HAZLTON3 345 34093 ARNOLD 3 345 1                           0.02561  0.18131   333.4   319.2
3932    -77.9 L:34423 MONONA_869.0 69307 FARMBURG69.0 1          51.5    51.0  0.00670          0.00601    44.4    43.9
              C:39244 ARP 345  345 60304 EAU CL 3 345 1    2888
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.01032 -0.06704  -692.1  -686.9
3933    -77.5 L:60864 TCAAPTP869.0 60909 ARDNHL2869.0 1         -50.2   -50.0 -0.00245         -0.00119   -16.4   -16.3
              C:60920 LINDSTM7 115 62276 SHAFER 7 115 C1   3210
                Open 60920 LINDSTM7 115 62276 SHAFER 7 115 C1                         -0.13820  0.00913   244.7   244.0
3936    -76.4 L:34054 GR JCT 5 161 63771 DRAGER 5 161 1        -142.9  -140.0 -0.03801         -0.03698  -123.9  -121.1
              C:34048 ANITA  5 161 34050 GU CTR 5 161 1     110
                Open 34048 ANITA  5 161 34050 GU CTR 5 161 1                          -0.31800  0.00326    59.8    59.6
3942    -76.0 L:61721 ETCO   7 115 61722 FORBES 7 115 1         -98.1   -98.0 -0.00187         -0.00176   -94.4   -94.3
              C:CHI-WYO/LIN7                                   3650
                Open 60196 CHI    7 115 60345 WYOMING7 115 1                          -0.00506 -0.00191    63.9    64.0
                Open 60196 CHI    7 115 60920 LINDSTM7 115 C1                         -0.01319  0.00913   259.9   259.2
3951    -73.1 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -48.2   -48.0 -0.00216         -0.00216   -44.9   -44.8
              C:60000 SHERC31G24.0 60160 SHERCO 3 345 1    2890
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                Open 60000 SHERC31G24.0 60160 SHERCO 3 345 1                          0.00560  0.00000  -580.3  -580.3
3953    -69.1 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -202.2  -200.0 -0.03224         -0.03224  -197.2  -195.0
              C:60013 BLK D73G13.8 60200 BLK DG27 115 1    2903
                Open 60013 BLK D73G13.8 60200 BLK DG27 115 1                          0.04449  0.00000  -112.6  -112.6
3954    -68.0 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -202.3  -200.0 -0.03328         -0.03224  -197.2  -195.0
              C:34075 ELDORA 7 115 34077 IA FALS7 115 1     160
                Open 34075 ELDORA 7 115 34077 IA FALS7 115 1                          0.08377 -0.01241   -60.2   -59.4
3955    -66.7 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -318.9  -318.0 -0.01397         -0.01397  -311.5  -310.6
              C:60010 HIBRD76G18.0 60214 HIBRDGE7 115 1    2900
                Open 60010 HIBRD76G18.0 60214 HIBRDGE7 115 1                          0.04401  0.00000  -168.3  -168.3
3956    -65.9 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -319.0  -318.0 -0.01553         -0.01397  -311.5  -310.6
              C:34009 WINBAGO5 161 61932 RUTLAND5 161 1      32
                Open 34009 WINBAGO5 161 61932 RUTLAND5 161 1                          0.03049 -0.05102  -245.9  -242.6
3957    -64.6 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          90.4    90.0  0.00677          0.00647    89.3    88.8
              C:34587 MURRAY 869.0 34658 OSCEOLA869.0 1     689
                Open 34587 MURRAY 869.0 34658 OSCEOLA869.0 1                          0.04766  0.00618    24.8    24.4
3958    -64.0 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          90.4    90.0  0.00665          0.00647    89.3    88.8
              C:61950 BYRON  3 345 63032 PL VLLY3 345 1    3375
                Open 61950 BYRON  3 345 63032 PL VLLY3 345 1                          0.00207  0.08464   567.6   562.2
3959    -63.9 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -202.3  -200.0 -0.03671         -0.03224  -197.2  -195.2
              C:34019 HAZLTON5 161 64250 BLKHAWK5 161 1    2725
                Open 34019 HAZLTON5 161 64250 BLKHAWK5 161 1                          0.11076 -0.04036   -46.3   -43.7
3960    -63.8 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -78.1   -77.0 -0.01654         -0.01539   -75.2   -74.2
              C:34084 PARNEL 5 161 34185 POWESHK5 161 1     173
                Open 34084 PARNEL 5 161 34185 POWESHK5 161 1                          0.02642 -0.04352  -107.5  -104.7
3961    -62.3 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          90.4    90.0  0.00712          0.00647    89.3    88.9
              C:34018 HAZLTON3 345 34093 ARNOLD 3 345 1      55
                Open 34018 HAZLTON3 345 34093 ARNOLD 3 345 1                          0.00357  0.18131   333.4   322.1
3962    -60.8 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          90.4    90.0  0.00677          0.00647    89.3    88.9
              C:34658 OSCEOLA869.0 34659 OSCEREC869.0 1     755
                Open 34658 OSCEOLA869.0 34659 OSCEREC869.0 1                          0.04766  0.00618    24.3    23.9
3963    -60.8 L:34054 GR JCT 5 161 34058 PERRY  5 161 1         114.3   112.0  0.03851          0.03623   105.0   102.8
              C:34191 REASNOR5 161 64062 DMOINES5 161 1    2820
                Open 34191 REASNOR5 161 64062 DMOINES5 161 1                         -0.07516 -0.03041  -124.0  -122.1
3964    -60.0 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          80.4    80.0  0.00593          0.00593    81.8    81.4
              C:67315 COYOTE1G24.0 67316 COYOTE 3 345 1    3613
                Open 67315 COYOTE1G24.0 67316 COYOTE 3 345 1                          0.00333  0.00000  -429.1  -429.1
3965    -59.6 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -318.8  -318.0 -0.01397         -0.01397  -311.5  -310.7
              C:62985 HUTCHPK869.0 62986 HUTCHMN869.0 1    2027
                Open 62985 HUTCHPK869.0 62986 HUTCHMN869.0 1                          0.15646  0.00000   -46.7   -46.7
3966    -58.6 L:34051 TOLEDO 7 115 34083 BL.PLN.7 115 1          60.1    59.0  0.01845          0.01539    52.0    51.1
              C:34085 BLRSTWN7 115 34099 PRAR CK7 115 1     175
                Open 34085 BLRSTWN7 115 34099 PRAR CK7 115 1                          0.18806  0.01629    42.8    41.8
3967    -58.4 L:34138 DUNDEE 869.0 34521 GRELYTP869.0 1          24.2    24.0  0.00415          0.00309    22.1    21.9
              C:34493 DELEWAR869.0 34494 EARLTAP869.0 1     655
                Open 34493 DELEWAR869.0 34494 EARLTAP869.0 1                          0.55323  0.00192     4.0     3.8
3968    -57.0 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          90.4    90.0  0.00681          0.00647    89.3    88.9
              C:34179 JASPER 5 161 34211 NEWTON 5 161 1     285
                Open 34179 JASPER 5 161 34211 NEWTON 5 161 1                          0.01708  0.01978    66.4    65.3
3971    -56.2 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          90.4    90.0  0.00677          0.00647    89.3    88.9
              C:34640 WODBURN869.0 34659 OSCEREC869.0 1     739
                Open 34640 WODBURN869.0 34659 OSCEREC869.0 1                         -0.04766 -0.00618   -23.6   -23.3
3972    -53.8 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          90.4    90.0  0.00677          0.00647    89.3    88.9
              C:34625 LACONA 869.0 34640 WODBURN869.0 1     726
                Open 34625 LACONA 869.0 34640 WODBURN869.0 1                         -0.04766 -0.00618   -23.3   -23.0
3973    -53.8 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          90.4    90.0  0.00677          0.00647    89.3    88.9
              C:34625 LACONA 869.0 34627 LUCAS T869.0 1     725
                Open 34625 LACONA 869.0 34627 LUCAS T869.0 1                          0.04766  0.00618    23.3    23.0
3974    -52.9 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          90.3    90.0  0.00604          0.00647    89.3    88.9
              C:34189 OTTUMWA5 161 34192 LUCAS  5 161 1     310
                Open 34189 OTTUMWA5 161 34192 LUCAS  5 161 1                          0.05645 -0.00770    18.9    19.3
3975    -52.2 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          90.3    90.0  0.00604          0.00647    89.3    88.9
              C:34202 LUCAS  869.0 34559 LUCAS  Y 161 1     327
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                Open 34202 LUCAS  869.0 34559 LUCAS  Y 161 1                          -0.05645  0.00770   -18.8   -19.2
3976    -52.2 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          90.3    90.0  0.00604          0.00647    89.3    88.9
              C:34192 LUCAS  5 161 34559 LUCAS  Y 161 1     314
                Open 34192 LUCAS  5 161 34559 LUCAS  Y 161 1                           0.05645 -0.00770    18.8    19.2
3977    -52.1 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          90.4    90.0  0.00677          0.00647    89.3    88.9
              C:34202 LUCAS  869.0 34627 LUCAS T869.0 1     328
                Open 34202 LUCAS  869.0 34627 LUCAS T869.0 1                          -0.04766 -0.00618   -23.1   -22.7
3979    -49.2 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -77.8   -77.0 -0.01557         -0.01539   -75.2   -74.5
              C:60186 AS KING3 345 60304 EAU CL 3 345 1    1116
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          -0.00283  0.06362   901.3   898.2
3980    -49.1 L:62429 PNNCKTP869.0 66298 GRANITF869.0 1         -24.3   -24.3 -0.00091         -0.00071   -15.7   -15.7
              C:640                                        3723
                Open 62425 WILLMAR7 115 62427 WILLMAR869.0 1                          -0.15795  0.00127    54.4    54.3
                Open 62005 KERKHOT7 115 62425 WILLMAR7 115 C1                         -0.01138  0.00000     0.7     0.7
3981    -48.3 L:61666 FONDULAC 115 61676 HIBBARD7 115 1          67.1    67.0  0.00308          0.00243    57.6    57.4
              C:050    2                                   3716
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.01176  0.06362   901.3   898.2
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.00145 -0.06704  -692.1  -688.9
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          -0.00000 -0.00175    77.5    77.6
3982    -48.2 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          80.3    80.0  0.00593          0.00593    81.8    81.5
              C:67101 ANTELOP3 345 67103 ANTEL31G24.0 1    3585
                Open 67101 ANTELOP3 345 67103 ANTEL31G24.0 1                           0.00359  0.00000  -417.8  -417.8
3983    -48.2 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          80.3    80.0  0.00593          0.00593    81.8    81.5
              C:67101 ANTELOP3 345 67107 ANTEL32G24.0 1    3586
                Open 67101 ANTELOP3 345 67107 ANTEL32G24.0 1                           0.00359  0.00000  -417.8  -417.8
3984    -47.0 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -318.7  -318.0 -0.01442         -0.01397  -311.5  -310.9
              C:60677 HENRYTR869.0 60770 BIRCH R869.0 C1   3059
                Open 60677 HENRYTR869.0 60770 BIRCH R869.0 C1                          0.38308 -0.00118   -18.7   -18.6
3985    -46.9 L:66565 SIOUXCY4 230 66567 DENISON4 230 1         241.7   240.0  0.03530
                Base Case
3987    -46.3 L:34054 GR JCT 5 161 34058 PERRY  5 161 1         113.7   112.0  0.03734          0.03623   105.0   103.3
              C:60108 WILMART3 345 60192 BLUE LK3 345 1     958
                Open 60108 WILMART3 345 60192 BLUE LK3 345 1                           0.00987  0.11317   881.7   876.5
3990    -44.7 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -201.4  -200.0 -0.03224         -0.03224  -197.2  -195.8
              C:60193 BLUE LK7 115 61477 BLL TR6Y 115 6    1131
                Open 60193 BLUE LK7 115 61477 BLL TR6Y 115 6                           0.04399  0.00000   -96.0   -96.0
3992    -43.2 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -48.1   -48.0 -0.00216         -0.00216   -44.9   -44.8
              C:60001 SHERC32G24.0 60160 SHERCO 3 345 1    2891
                Open 60001 SHERC32G24.0 60160 SHERCO 3 345 1                           0.00560  0.00000  -568.8  -568.8
3994    -42.0 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -201.4  -200.0 -0.03224         -0.03224  -197.2  -195.9
              C:60193 BLUE LK7 115 61476 BLL TR5Y 115 5    1130
                Open 60193 BLUE LK7 115 61476 BLL TR5Y 115 5                           0.04399  0.00000   -94.0   -94.0
3995    -41.5 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          80.2    80.0  0.00593          0.00593    81.8    81.5
              C:63314 BIGSTON4 230 63315 BIGSTN1G24.0 1    3458
                Open 63314 BIGSTON4 230 63315 BIGSTN1G24.0 1                           0.00330  0.00000  -466.2  -466.2
3996    -41.2 L:62933 HIGHLND869.0 62935 MAPLELK869.0 1          13.7    13.7  0.00089          0.00089    11.3    11.2
              C:62986 HUTCHMN869.0 62988 HTCHHTI869.0 1    2029
                Open 62986 HUTCHMN869.0 62988 HTCHHTI869.0 1                           0.08394  0.00000    29.2    29.2
3997    -41.0 L:62429 PNNCKTP869.0 66298 GRANITF869.0 1         -24.3   -24.3 -0.00091         -0.00071   -15.7   -15.7
              C:62425 WILLMAR7 115 62427 WILLMAR869.0 1    1887
                Open 62425 WILLMAR7 115 62427 WILLMAR869.0 1                          -0.15795  0.00127    54.4    54.3
3998    -40.9 L:34285 ALDEN J869.0 34286 ALEAWST869.0 1          44.3    44.0  0.00698          0.00555    34.7    34.5
              C:61950 BYRON  3 345 63032 PL VLLY3 345 1    3375
                Open 61950 BYRON  3 345 63032 PL VLLY3 345 1                           0.01692  0.08464   567.6   564.1
3999    -40.7 L:64250 BLKHAWK5 161 64256 UNIONTP5 161 1        -182.9  -181.0 -0.04720         -0.04036  -135.5  -133.9
              C:34016 EMERY  5 161 64252 FLOYD  5 161 1    2719
                Open 34016 EMERY  5 161 64252 FLOYD  5 161 1                          -0.20044  0.03409   236.6   235.2
4000    -40.0 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -201.3  -200.0 -0.03328         -0.03224  -197.2  -195.9
              C:34075 ELDORA 7 115 34169 WELSBGT7 115 1     161
                Open 34075 ELDORA 7 115 34169 WELSBGT7 115 1                          -0.08377  0.01241    49.1    48.6
4001    -38.6 L:66566 SIOUXCY5 161 66574 SIOUXCY869.0 1          76.3    75.0  0.03295          0.00630    30.1    29.9
              C:63889 PLYMOTH5 161 66566 SIOUXCY5 161 1    3468
                Open 63889 PLYMOTH5 161 66566 SIOUXCY5 161 1                          -0.24621 -0.10825  -187.4  -183.2
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4002    -38.5 L:60789 CIRCLTP869.0 60790 FAIRPRK869.0 1         -48.0   -48.0 -0.00099         -0.00216   -53.9   -53.8
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                          -0.00831 -0.13973  -702.5  -697.2
4003    -38.5 L:34054 GR JCT 5 161 34058 PERRY  5 161 1         113.4   112.0  0.03706          0.03623   105.0   103.6
              C:PRI-BYN/RRK3                                 3646
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                           0.01091  0.07639   767.2   764.3
                Open 60105 PR ISLD3 345 60236 REDROCK3 345 2                           0.00020 -0.01725   152.8   153.4
4006    -38.3 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -201.2  -200.0 -0.03224         -0.03224  -197.2  -196.0
              C:66749 CENTER1G22.0 66751 CENTER 4 230 1    3575
                Open 66749 CENTER1G22.0 66751 CENTER 4 230 1                           0.01680  0.00000  -239.2  -239.2
4007    -38.3 L:64203 NW FTDG5 161 64205 FT.DODG5 161 1         168.6   167.0  0.04194          0.03892   158.5   157.0
              C:34054 GR JCT 5 161 63771 DRAGER 5 161 1    2748
                Open 34054 GR JCT 5 161 63771 DRAGER 5 161 1                          -0.08189 -0.03698  -123.9  -122.5
4008    -38.3 L:64062 DMOINES5 161 64632 DMSMID2869.0 2          90.3    90.0  0.00665          0.00647    89.3    89.0
              C:60102 ADAMS  3 345 63032 PL VLLY3 345 1    2933
                Open 60102 ADAMS  3 345 63032 PL VLLY3 345 1                          -0.00183 -0.09714  -545.7  -541.9
4010    -36.3 L:34054 GR JCT 5 161 34058 PERRY  5 161 1         113.3   112.0  0.03705          0.03623   105.0   103.7
              C:60105 PR ISLD3 345 61950 BYRON  3 345 1     951
                Open 60105 PR ISLD3 345 61950 BYRON  3 345 1                           0.01084  0.07639   767.2   764.4
4011    -36.3 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -201.3  -200.0 -0.03493         -0.03224  -197.2  -196.0
              C:34089 VINTON 5 161 34091 ARNOLD 5 161 1     177
                Open 34089 VINTON 5 161 34091 ARNOLD 5 161 1                          -0.05675  0.04736    71.4    69.6
4012    -36.3 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          80.2    80.0  0.00593          0.00593    81.8    81.6
              C:67105 LELANDO3 345 67111 LELAN32G20.0 1    3588
                Open 67105 LELANDO3 345 67111 LELAN32G20.0 1                           0.00357  0.00000  -438.9  -438.9
4013    -36.1 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -201.1  -200.0 -0.03169         -0.03224  -197.2  -196.1
              C:60109 WILMART5 161 60110 WILMART7 115 1     960
                Open 60109 WILMART5 161 60110 WILMART7 115 1                           0.06350  0.00863   -61.8   -62.1
4014    -36.0 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -201.1  -200.0 -0.03169         -0.03224  -197.2  -196.1
              C:60109 WILMART5 161 60120 BLUEETA5 161 1     961
                Open 60109 WILMART5 161 60120 BLUEETA5 161 1                          -0.06350 -0.00863    61.8    62.1
4015    -35.7 L:61666 FONDULAC 115 61676 HIBBARD7 115 1          67.1    67.0  0.00308          0.00243    57.6    57.5
              C:ASK-RRK/ECL3                                 3642
                Open 60186 AS KING3 345 60236 REDROCK3 345 1                          -0.00009 -0.01969   140.3   141.0
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.01173  0.06362   901.3   899.0
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.00146 -0.06704  -692.1  -689.7
4016    -35.7 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          80.2    80.0  0.00575          0.00593    81.8    81.6
              C:34182 WAPELLO5 161 34183 JEFF   5 161 1     292
                Open 34182 WAPELLO5 161 34183 JEFF   5 161 1                          -0.01098  0.01653   143.8   143.2
4017    -35.6 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -201.2  -200.0 -0.03260         -0.03224  -197.2  -196.1
              C:60107 W FARIB7 115 61952 S FARIB5 161 1     955
                Open 60107 W FARIB7 115 61952 S FARIB5 161 1                          -0.02469  0.01457   159.6   159.1
4018    -33.7 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -201.1  -200.0 -0.03260         -0.03224  -197.2  -196.1
              C:61952 S FARIB5 161 61964 OWATNNA5 161 1    1697
                Open 61952 S FARIB5 161 61964 OWATNNA5 161 1                          -0.02469  0.01457   157.1   156.6
4022    -33.4 L:60786 DUNDAS 869.0 60788 VALLYTP869.0 1         -48.1   -48.0 -0.00216         -0.00216   -44.9   -44.8
              C:60005 MNTCE31G22.0 60151 MNTCELO3 345 1    2895
                Open 60005 MNTCE31G22.0 60151 MNTCELO3 345 1                           0.00554  0.00000  -571.4  -571.4
4023    -33.1 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -201.1  -200.0 -0.03271         -0.03224  -197.2  -196.2
              C:60265 LOON TP7 115 60830 EASTWD18 115 P1   1275
                Open 60265 LOON TP7 115 60830 EASTWD18 115 P1                          0.01847 -0.02555  -209.2  -208.4
4024    -32.9 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -201.1  -200.0 -0.03250         -0.03224  -197.2  -196.2
              C:810   C1                                     3767
                Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                           0.02003 -0.01298  -192.3  -191.9
                Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                          0.04516  0.00000    -0.0    -0.0
4025    -32.9 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -201.1  -200.0 -0.03250         -0.03224  -197.2  -196.2
              C:60189 BLK DOG4 230 60190 BLK DOG7 115 C1   1120
                Open 60189 BLK DOG4 230 60190 BLK DOG7 115 C1                         -0.02003  0.01298   192.3   191.9
4026    -32.9 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -201.1  -200.0 -0.03250         -0.03224  -197.2  -196.2
              C:60189 BLK DOG4 230 62980 MCLEOD 4 230 1    1121
                Open 60189 BLK DOG4 230 62980 MCLEOD 4 230 1                           0.02003 -0.01298  -192.3  -191.9
4028    -32.4 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -201.0  -200.0 -0.03240         -0.03224  -197.2  -196.2
              C:022       6                                  3707
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                Open 60186 AS KING3 345 60199 CHIS CO3 345 1                          0.00552 -0.00535  -490.2  -490.0
                Open 60186 AS KING3 345 60221 KOLMNLK3 345 1                          0.00340 -0.03910  -330.7  -329.4
4029    -32.4 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -201.0  -200.0 -0.03240         -0.03224  -197.2  -196.2
              C:ASK-CHI/KOL3                                 3641
                Open 60186 AS KING3 345 60199 CHIS CO3 345 1                          0.00552 -0.00535  -490.2  -490.0
                Open 60186 AS KING3 345 60221 KOLMNLK3 345 1                          0.00340 -0.03910  -330.7  -329.4
4030    -31.4 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -201.0  -200.0 -0.03169         -0.03224  -197.2  -196.2
              C:34009 WINBAGO5 161 60120 BLUEETA5 161 1      31
                Open 34009 WINBAGO5 161 60120 BLUEETA5 161 1                          0.06350  0.00863   -59.5   -59.8
4031    -30.0 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -201.0  -200.0 -0.03224         -0.03224  -197.2  -196.3
              C:34395 EMERY S869.0 34403 CL LAKT869.0 1     552
                Open 34395 EMERY S869.0 34403 CL LAKT869.0 1                         -0.14829  0.00000    25.3    25.3
4032    -29.0 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -200.9  -200.0 -0.03169         -0.03224  -197.2  -196.3
              C:770                                          3761
                Open 60109 WILMART5 161 60110 WILMART7 115 1                          0.06350  0.00863   -61.8   -62.1
                Open 60109 WILMART5 161 60120 BLUEETA5 161 1     NA
                Open 34009 WINBAGO5 161 60120 BLUEETA5 161 1                          0.09739  0.00000     2.3     2.3
4033    -27.9 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -77.4   -77.0 -0.01560         -0.01539   -75.2   -74.8
              C:050    3                                     3717
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          0.00321 -0.06704  -692.1  -690.2
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                          0.00055 -0.00300     0.0     0.1
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                         -0.00004 -0.00148   -42.6   -42.6
4034    -26.9 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -77.4   -77.0 -0.01560         -0.01539   -75.2   -74.8
              C:39244 ARP 345  345 60304 EAU CL 3 345 1    2888
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          0.00318 -0.06704  -692.1  -690.3
4035    -24.6 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -200.8  -200.0 -0.03228         -0.03224  -197.2  -196.4
              C:63369 JAMESTN3 345 66791 CENTER 3 345 1    2199
                Open 63369 JAMESTN3 345 66791 CENTER 3 345 1                          0.00847 -0.00471  -422.3  -422.2
4036    -24.3 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -200.8  -200.0 -0.03239         -0.03224  -197.2  -196.4
              C:34393 MCHW106869.0 34394 MC 5DEL869.0 1     549
                Open 34393 MCHW106869.0 34394 MC 5DEL869.0 1                         -0.12293  0.00127    29.0    29.0
4037    -24.2 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -77.4   -77.0 -0.01654         -0.01539   -75.2   -74.8
              C:34084 PARNEL 5 161 64351 HILLS  5 161 1    2769
                Open 34084 PARNEL 5 161 64351 HILLS  5 161 1                         -0.02642  0.04352    82.7    81.7
4038    -23.4 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -77.4   -77.0 -0.01603         -0.01539   -75.2   -74.9
              C:34179 JASPER 5 161 34211 NEWTON 5 161 1     285
                Open 34179 JASPER 5 161 34211 NEWTON 5 161 1                         -0.03252  0.01978    66.4    66.0
4039    -23.2 L:34054 GR JCT 5 161 34058 PERRY  5 161 1         112.9   112.0  0.03686          0.03623   105.0   104.2
              C:ASK-RRK/ECL3                                 3642
                Open 60186 AS KING3 345 60236 REDROCK3 345 1                          0.00051 -0.01969   140.3   140.8
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00437  0.06362   901.3   899.8
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.00552 -0.06704  -692.1  -690.6
4040    -23.0 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -200.8  -200.0 -0.03493         -0.03224  -197.2  -196.5
              C:34087 DYSART 5 161 34089 VINTON 5 161 1     176
                Open 34087 DYSART 5 161 34089 VINTON 5 161 1                         -0.05675  0.04736    63.2    62.1
4041    -21.8 L:34054 GR JCT 5 161 34058 PERRY  5 161 1         112.8   112.0  0.03688          0.03623   105.0   104.2
              C:050    1                                     3715
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          0.00416  0.06362   901.3   899.9
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                         -0.00571 -0.06704  -692.1  -690.6
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          0.00000 -0.00175    77.5    77.5
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                         -0.00265 -0.00300     0.0     0.1
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                         -0.00188 -0.00148   -42.6   -42.6
4043    -21.1 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -200.7  -200.0 -0.03295         -0.03224  -197.2  -196.5
              C:BYN-WOW/KAN5                                 3653
                Open 61948 BYRON  5 161 61964 OWATNNA5 161 1                          0.03488 -0.02028  -157.4  -157.0
                Open 60799 KASSON 869.0 61161 BYRON  869.0 1                          0.07523  0.00000    26.8    26.8
4044    -21.0 L:34051 TOLEDO 7 115 34083 BL.PLN.7 115 1          59.3    59.0  0.01539          0.01539    52.0    51.7
              C:34051 TOLEDO 7 115 34154 TOLEDO 934.5 1    2745
                Open 34051 TOLEDO 7 115 34154 TOLEDO 934.5 1                          0.31448  0.00000    23.2    23.2
4045    -20.7 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -200.7  -200.0 -0.03243         -0.03224  -197.2  -196.5
              C:500                                          3718
                Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                          0.01848 -0.01028  -216.5  -216.3
                Open 62427 WILLMAR869.0 63050 WILLMAR4 230 1                         -0.01425  0.00004   -38.4   -38.4
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4046    -20.7 L:34054 GR JCT 5 161 34058 PERRY  5 161 1         112.7   112.0  0.03623          0.03623   105.0   104.3
              C:34146 OTTUMW1G24.0 34189 OTTUMWA5 161 1    2809
                Open 34146 OTTUMW1G24.0 34189 OTTUMWA5 161 1                          -0.01656  0.00000  -466.3  -466.3
4047    -20.5 L:34423 MONONA_869.0 69307 FARMBURG69.0 1          51.1    51.0  0.00672          0.00601    44.4    44.3
              C:050    1                                   3715
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          -0.00160  0.06362   901.3   900.0
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.01172 -0.06704  -692.1  -690.7
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                          -0.00000 -0.00175    77.5    77.5
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                          -0.01025 -0.00300     0.0     0.1
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                          -0.00200 -0.00148   -42.6   -42.6
4048    -20.0 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -77.3   -77.0 -0.01531         -0.01539   -75.2   -74.9
              C:34105 HIAWATA5 161 34535 HIAWATAY 161 1     193
                Open 34105 HIAWATA5 161 34535 HIAWATAY 161 1                          -0.04230 -0.00171    49.4    49.5
4049    -20.0 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -77.3   -77.0 -0.01531         -0.01539   -75.2   -74.9
              C:34101 HIAWATA7 115 34535 HIAWATAY 161 1     190
                Open 34101 HIAWATA7 115 34535 HIAWATAY 161 1                           0.04230  0.00171   -49.4   -49.5
4050    -20.0 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -200.6  -200.0 -0.03224         -0.03224  -197.2  -196.6
              C:60331 LKFLDXL3 345 63092 LGS  34Y1.00 1    3021
                Open 60331 LKFLDXL3 345 63092 LGS  34Y1.00 1                           0.01872  0.00000  -183.0  -183.0
4051    -20.0 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -200.6  -200.0 -0.03224         -0.03224  -197.2  -196.6
              C:60331 LKFLDXL3 345 63091 LGS  12Y1.00 1    3020
                Open 60331 LKFLDXL3 345 63091 LGS  12Y1.00 1                           0.01872  0.00000  -183.0  -183.0
4052    -20.0 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -200.6  -200.0 -0.03224         -0.03224  -197.2  -196.6
              C:60331 LKFLDXL3 345 63093 LGS  56Y1.00 1    3022
                Open 60331 LKFLDXL3 345 63093 LGS  56Y1.00 1                           0.01872  0.00000  -183.0  -183.0
4053    -19.9 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -77.3   -77.0 -0.01573         -0.01539   -75.2   -74.9
              C:34015 LIME CK5 161 34016 EMERY  5 161 1      46
                Open 34015 LIME CK5 161 34016 EMERY  5 161 1                           0.01064 -0.03224  -197.2  -196.6
4054    -19.0 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -318.3  -318.0 -0.01453         -0.01397  -311.5  -311.3
              C:62437 SVEATAP869.0 62438 LITCHTP869.0 1    1902
                Open 62437 SVEATAP869.0 62438 LITCHTP869.0 1                          -0.28775  0.00195    23.5    23.4
4056    -17.6 L:34075 ELDORA 7 115 34077 IA FALS7 115 1         -60.2   -60.0 -0.01241
                Base Case
4057    -17.5 L:34251 MADLIAJ869.0 60716 STJ EAS869.0 1         -36.2   -36.0 -0.00870         -0.00284    -6.7    -6.7
              C:60108 WILMART3 345 60331 LKFLDXL3 345 1     959
                Open 60108 WILMART3 345 60331 LKFLDXL3 345 1                           0.04191 -0.13973  -702.5  -700.1
4059    -17.3 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -200.6  -200.0 -0.03277         -0.03224  -197.2  -196.7
              C:34387 MCLPCSS869.0 34389 MC LPC 869.0 1     543
                Open 34387 MCLPCSS869.0 34389 MC LPC 869.0 1                          -0.26627  0.00199    12.6    12.5
4063    -17.0 L:34054 GR JCT 5 161 34058 PERRY  5 161 1         112.6   112.0  0.03686          0.03623   105.0   104.4
              C:050    2                                   3716
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                           0.00421  0.06362   901.3   900.2
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                          -0.00551 -0.06704  -692.1  -691.0
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                           0.00000 -0.00175    77.5    77.5
4064    -16.7 L:60934 WATOWAN869.0 62805 STJAMES869.0 1          36.1    36.0  0.00331          0.00284    33.0    33.0
              C:34280 TRUMANT869.0 61934 RUTLAND 69.0 1     450
                Open 34280 TRUMANT869.0 61934 RUTLAND 69.0 1                          -0.50244 -0.00093    -6.0    -6.0
4066    -16.1 L:60310 MONROCO5 161 60949 MONROCO869.0 1          70.0    70.0  0.00258          0.00246    66.3    66.3
              C:60945 NSPGENO869.0 68810 GENOA   69.0 1    3229
                Open 60945 NSPGENO869.0 68810 GENOA   69.0 1                          -0.12570 -0.00095   -29.7   -29.7
4068    -15.6 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -200.5  -200.0 -0.03224         -0.03224  -197.2  -196.7
              C:63002 STANT41G18.0 63049 STANTON4 230 1    3398
                Open 63002 STANT41G18.0 63049 STANTON4 230 1                           0.01696  0.00000  -193.8  -193.8
4069    -15.6 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -200.5  -200.0 -0.03228         -0.03224  -197.2  -196.7
              C:63358 BUFFALO3 345 63369 JAMESTN3 345 1    2195
                Open 63358 BUFFALO3 345 63369 JAMESTN3 345 1                           0.00847 -0.00471  -387.9  -387.8
4075    -13.3 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -200.4  -200.0 -0.03228         -0.03224  -197.2  -196.8
              C:63358 BUFFALO3 345 66792 MAPLE R3 345 1    2196
                Open 63358 BUFFALO3 345 66792 MAPLE R3 345 1                          -0.00847  0.00471   379.1   379.0
4076    -13.1 L:62980 MCLEOD 4 230 63054 PANTHER4 230 1        -319.3  -319.0 -0.01952         -0.01700  -276.4  -276.2
              C:60156 PYNSVIL7 115 60356 PAYNES 4 230 C1   1069
                Open 60156 PYNSVIL7 115 60356 PAYNES 4 230 C1                          0.24398 -0.01032  -175.7  -175.5
4077    -13.1 L:62980 MCLEOD 4 230 63054 PANTHER4 230 1        -319.3  -319.0 -0.01952         -0.01700  -276.4  -276.2
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              C:60356 PAYNES 4 230 63050 WILLMAR4 230 C1   1365
                Open 60356 PAYNES 4 230 63050 WILLMAR4 230 C1                          0.24398 -0.01032  -175.7  -175.5
4083    -11.0 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -200.4  -200.0 -0.03237         -0.03224  -197.2  -196.9
              C:63329 WAHPETN4 230 63331 FERGSFL4 230 1    2192
                Open 63329 WAHPETN4 230 63331 FERGSFL4 230 1                          -0.01185  0.01091   264.8   264.7
4084    -10.7 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -200.3  -200.0 -0.03242         -0.03224  -197.2  -196.9
              C:60156 PYNSVIL7 115 60356 PAYNES 4 230 C1   1069
                Open 60156 PYNSVIL7 115 60356 PAYNES 4 230 C1                          0.01782 -0.01032  -175.7  -175.6
4085    -10.7 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -200.3  -200.0 -0.03242         -0.03224  -197.2  -196.9
              C:60356 PAYNES 4 230 63050 WILLMAR4 230 C1   1365
                Open 60356 PAYNES 4 230 63050 WILLMAR4 230 C1                          0.01782 -0.01032  -175.7  -175.6
4087     -9.7 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -200.3  -200.0 -0.03269         -0.03224  -197.2  -196.9
              C:34020 HAZL S 5 161 34135 DUNDEE 5 161 1      60
                Open 34020 HAZL S 5 161 34135 DUNDEE 5 161 1                          -0.01491  0.03042   207.8   207.6
4091     -8.1 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -200.3  -200.0 -0.03269         -0.03224  -197.2  -197.0
              C:34265 WALTERS869.0 34285 ALDEN J869.0 1     429
                Open 34265 WALTERS869.0 34285 ALDEN J869.0 1                          -0.08149  0.00555    37.4    37.3
4094     -7.2 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -200.2  -200.0 -0.03224         -0.03224  -197.2  -197.0
              C:34401 6THAVET869.0 34403 CL LAKT869.0 1     556
                Open 34401 6THAVET869.0 34403 CL LAKT869.0 1                          -0.14829  0.00000    20.3    20.3
4097     -5.9 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -200.2  -200.0 -0.03224         -0.03224  -197.2  -197.0
              C:67106 LELANDO4 230 67110 LELAN41G22.0 1    3589
                Open 67106 LELANDO4 230 67110 LELAN41G22.0 1                          0.01388  0.00000  -214.2  -214.2
4105     -4.0 L:34129 LIBERTY5 161 34135 DUNDEE 5 161 1        -167.1  -167.0 -0.02597         -0.02387  -143.2  -143.1
              C:050    2                                   3716
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          -0.00904  0.06362   901.3   901.1
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.02275 -0.06704  -692.1  -691.8
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                           0.00000 -0.00175    77.5    77.5
4111     -2.5 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -200.1  -200.0 -0.03416         -0.03224  -197.2  -197.1
              C:34066 M-TOWN 7 115 34169 WELSBGT7 115 1     146
                Open 34066 M-TOWN 7 115 34169 WELSBGT7 115 1                           0.10396 -0.01850   -27.6   -27.5
4118     -1.3 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -200.0  -200.0 -0.03269         -0.03224  -197.2  -197.2
              C:34285 ALDEN J869.0 34286 ALEAWST869.0 1     455
                Open 34285 ALDEN J869.0 34286 ALEAWST869.0 1                          -0.08149  0.00555    34.7    34.7
4121     -0.5 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -200.0  -200.0 -0.03243         -0.03224  -197.2  -197.2
              C:66530 WATERTN4 230 66550 GRANITF4 230 1    2501
                Open 66530 WATERTN4 230 66550 GRANITF4 230 1                          -0.01458  0.01320   191.8   191.8
4122     -0.3 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -200.0  -200.0 -0.03281         -0.03224  -197.2  -197.2
              C:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1     114
                Open 34051 TOLEDO 7 115 34066 M-TOWN 7 115 1                           0.03712 -0.01539   -75.2   -75.2
4123      0.4 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -77.0   -77.0 -0.01539         -0.01539   -75.2   -75.2
              C:34068 M-TOWN 5 161 34069 TIMBRCK5 161 1     150
                Open 34068 M-TOWN 5 161 34069 TIMBRCK5 161 1                          -0.07088  0.00000    25.1    25.1
4125      0.8 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -200.0  -200.0 -0.03234         -0.03224  -197.2  -197.2
              C:66503 BLAIR  4 230 66550 GRANITF4 230 1    2447
                Open 66503 BLAIR  4 230 66550 GRANITF4 230 1                          -0.01042  0.00970   264.5   264.5
4126      2.3 L:60791 FARIBLT869.0 60792 WFARBLT869.0 1         -47.0   -47.0 -0.00111         -0.00211   -59.2   -59.2
              C:60796 KENYON 869.0 60797 KENYNTP869.0 1    1466
                Open 60796 KENYON 869.0 60797 KENYNTP869.0 1                          -0.62236 -0.00161   -19.5   -19.5
4127      2.4 L:60150 MNVLTAP4 230 66550 GRANITF4 230 1        -318.0  -318.0 -0.01388         -0.01397  -311.5  -311.6
              C:66506 FTTHOMP3 345 67105 LELANDO3 345 1    2451
                Open 66506 FTTHOMP3 345 67105 LELANDO3 345 1                           0.01865  0.00484  -345.5  -345.5
4128      2.9 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -199.9  -200.0 -0.03237         -0.03224  -197.2  -197.3
              C:63050 WILLMAR4 230 66550 GRANITF4 230 1    2051
                Open 63050 WILLMAR4 230 66550 GRANITF4 230 1                           0.01242 -0.01028  -216.5  -216.6
4129      3.2 L:64062 DMOINES5 161 64631 DMSMID1869.0 1          80.0    80.0  0.00593          0.00593    81.8    81.8
              C:60002 SHERC33G26.0 60160 SHERCO 3 345 1    2892
                Open 60002 SHERC33G26.0 60160 SHERCO 3 345 1                           0.00206  0.00000  -875.5  -875.5
4133      5.6 L:34051 TOLEDO 7 115 34066 M-TOWN 7 115 1         -76.9   -77.0 -0.01555         -0.01539   -75.2   -75.3
              C:34091 ARNOLD 5 161 34111 FAIRFAX5 161 1     179
                Open 34091 ARNOLD 5 161 34111 FAIRFAX5 161 1                          -0.01048  0.01574   162.1   162.2
4134      5.7 L:34015 LIME CK5 161 34016 EMERY  5 161 1        -199.8  -200.0 -0.03247         -0.03224  -197.2  -197.4
              C:34013 WNBAGOS5 161 69529 WINNCO 5 161 1    2715
```

```
                Open 34013 WNBAGOS5 161 69529 WINNCO 5 161 1                          -0.05221  0.00450    49.7    49.8
4135      5.8*L:34015 LIME CK5 161 34016 EMERY  5 161 1        -199.8  -200.0 -0.03233         -0.03224  -197.2  -197.4
              C:60133 SHEYNNE4 230 63336 AUDUBON4 230 1    1013
                Open 60133 SHEYNNE4 230 63336 AUDUBON4 230 1                          -0.01023  0.00860   253.4   253.5
4136      7.1 L:34054 GR JCT 5 161 34058 PERRY  5 161 1         111.7   112.0  0.03623          0.03623   105.0   105.3
              C:34164 GR JCT 934.5 34525 GR JCT Y 161 1    2811
                Open 34164 GR JCT 934.5 34525 GR JCT Y 161 1                           0.41129  0.00000    16.3    16.3
4137      7.1 L:34054 GR JCT 5 161 34058 PERRY  5 161 1         111.7   112.0  0.03623          0.03623   105.0   105.3
              C:34054 GR JCT 5 161 34525 GR JCT Y 161 1     121
                Open 34054 GR JCT 5 161 34525 GR JCT Y 161 1                           0.41129  0.00000    16.3    16.3
4144      9.8 L:34129 LIBERTY5 161 34135 DUNDEE 5 161 1        -166.7  -167.0 -0.02597         -0.02387  -143.2  -143.4
              C:050    1                                   3715
                Open 60186 AS KING3 345 60304 EAU CL 3 345 1                          -0.00901  0.06362   901.3   901.9
                Open 39244 ARP 345  345 60304 EAU CL 3 345 1                           0.02279 -0.06704  -692.1  -692.8
                Open 60304 EAU CL 3 345 60305 EAU CLA5 161 1                           0.00000 -0.00175    77.5    77.5
                Open 38342 COC 69  69.0 39901 COC DPC 69.0 1                           0.00434 -0.00300     0.0    -0.0
                Open 38333 HLT 69  69.0 68821 MAUSTON 69.0 1                          -0.00852 -0.00148   -42.6   -42.6
```

APPENDIX F

CONSTRAINED INTERFACE ANALYSIS

DFCALC OUTPUT FOR GI-0304 INTERCONNECTION

```
***** BASE CASE:
GI-0303 SU PK CASE FROM 2002 SERIES,2007 SUMR PK
SP07AA.GI-0303.SAV POI: WHITE 115 KV BUS / SUMMER PEAK


***** CHNG CASE:
GI-0304 SU PK CASE FROM 2002 SERIES,2007 SUMR PK
SP07AA.GI-0304.SAV / SUMMER PEAK


***** BASE TRANSACTION AMOUNT FOR DF CALCULATION:    80.000


## PTDF INTERFACES ##

64786 COOPER 3  - 59393 ST JOE 3   BASE:   281.1 CHNG:   287.0 DIFF:     2.1%
64786 COOPER 3  - 96039 7FAIRPT    BASE:   236.1 CHNG:   240.2 DIFF:     1.7%

SUBTOTALS FOR: COOPER_S            BASE:   517.3 CHNG:   527.2 DIFF:     1.9%
                                                 DIFF:     9.9   DF:    12.4%
*******************************************************************************

60304 EAU CL 3  - 39244 ARP 345    BASE:   238.4 CHNG:   243.0 DIFF:     1.9%

SUBTOTALS FOR: ECL-ARP             BASE:   238.4 CHNG:   243.0 DIFF:     1.9%
                                                 DIFF:     4.6   DF:     5.7%
*******************************************************************************

65351 S3451  3  - 65353 S3453  3   BASE:   230.5 CHNG:   235.5 DIFF:     2.2%
65351 S3451  3  - 65359 S3459  3   BASE:   173.5 CHNG:   180.4 DIFF:     4.0%
65451 S1251  5  - 65497 S1297  5   BASE:    87.3 CHNG:    88.6 DIFF:     1.5%

SUBTOTALS FOR: FTCAL_S             BASE:   491.2 CHNG:   504.5 DIFF:     2.7%
                                                 DIFF:    13.2   DF:    16.5%
*******************************************************************************

64832 GENTLMN4  - 64909 N.PLATT4   BASE:   143.0 CHNG:   142.9 DIFF:    -0.1%
64832 GENTLMN4  - 64909 N.PLATT4   BASE:   143.4 CHNG:   143.3 DIFF:    -0.1%
64832 GENTLMN4  - 64909 N.PLATT4   BASE:   147.6 CHNG:   147.4 DIFF:    -0.1%
64831 GENTLMN3  - 64984 SWEET W3   BASE:   227.8 CHNG:   227.4 DIFF:    -0.2%
64831 GENTLMN3  - 64984 SWEET W3   BASE:   272.7 CHNG:   272.1 DIFF:    -0.2%
64831 GENTLMN3  - 64943 REDWILO3   BASE:   348.9 CHNG:   351.0 DIFF:     0.6%

SUBTOTALS FOR: GGS                 BASE:  1283.5 CHNG:  1284.0 DIFF:     0.0%
                                                 DIFF:     0.6   DF:     0.7%
*******************************************************************************

64933 PAULINE3  - 64902 MOORE  3   BASE:    38.4 CHNG:    39.2 DIFF:     1.9%
64839 GR ISLD4  - 64780 COLMB.W4   BASE:    45.2 CHNG:    43.2 DIFF:    -4.6%
66571 GR ISLD3  - 64896 MCCOOL 3   BASE:   176.9 CHNG:   178.8 DIFF:     1.1%

SUBTOTALS FOR: GRIS_LNC            BASE:   260.5 CHNG:   261.2 DIFF:     0.3%
                                                 DIFF:     0.7   DF:     0.8%
*******************************************************************************

62234 LKMARN 7  - 5998  RICEGEN    BASE:  -220.6 CHNG:  -220.9 DIFF:     0.1%

SUBTOTALS FOR: LKM-WFB             BASE:  -220.6 CHNG:  -220.9 DIFF:     0.1%
                                                 DIFF:    -0.3   DF:    -0.4%
*******************************************************************************

60175 ROSEAU 4  - 67576 RICHER 4   BASE:  -136.2 CHNG:  -136.4 DIFF:     0.1%
60173 ROSEAUN2  - 67564 DORSEY 2   BASE: -1227.5 CHNG: -1228.8 DIFF:     0.1%
66752 DRAYTON4  - 67557 LETELER4   BASE:  -225.7 CHNG:  -225.0 DIFF:    -0.3%
63379 RUGBY  4  - 67523 GLENBOR4   BASE:    35.0 CHNG:    35.7 DIFF:     1.9%

SUBTOTALS FOR: MHEX_N+             BASE: -1554.4 CHNG: -1554.5 DIFF:     0.0%
                                                 DIFF:     0.0   DF:     0.0%
*******************************************************************************
```

```
67576 RICHER 4  - 60175 ROSEAU 4   BASE:   138.4 CHNG:   138.6 DIFF:     0.1%
67564 DORSEY 2  - 60173 ROSEAUN2   BASE:  1247.3 CHNG:  1248.6 DIFF:     0.1%
67557 LETELER4  - 66752 DRAYTON4   BASE:   229.7 CHNG:   229.0 DIFF:    -0.3%
67523 GLENBOR4  - 63379 RUGBY  4   BASE:   -34.7 CHNG:   -35.4 DIFF:     1.9%

SUBTOTALS FOR: MHEX_S+             BASE:  1580.7 CHNG:  1580.8 DIFF:     0.0%
                                                DIFF:     0.1   DF:     0.1%
*******************************************************************************

68613 AUBURNT4  - 67525 RESTON 4   BASE:    52.1 CHNG:    52.1 DIFF:    -0.1%
68615 YORKTON4  - 67514 ROBLIN 4   BASE:   -92.3 CHNG:   -92.3 DIFF:     0.0%
68630 EBCAMPB4  - 67515 RALL   4   BASE:   -31.9 CHNG:   -31.9 DIFF:    -0.1%

SUBTOTALS FOR: MH_SPC_E+           BASE:   -72.1 CHNG:   -72.1 DIFF:     0.0%
                                                DIFF:     0.0   DF:     0.0%
*******************************************************************************

67525 RESTON 4  - 68613 AUBURNT4   BASE:   -51.8 CHNG:   -51.8 DIFF:    -0.1%
67514 ROBLIN 4  - 68615 YORKTON4   BASE:    93.1 CHNG:    93.1 DIFF:     0.0%
67515 RALL   4  - 68630 EBCAMPB4   BASE:    32.3 CHNG:    32.3 DIFF:    -0.1%

SUBTOTALS FOR: MH_SPC_W+           BASE:    73.6 CHNG:    73.6 DIFF:     0.0%
                                                DIFF:     0.0   DF:     0.0%
*******************************************************************************

64095 MNTZUMA3  - 64064 BONDRNT3   BASE:  -456.5 CHNG:  -474.6 DIFF:     3.9%

SUBTOTALS FOR: MNTZUMA_W           BASE:  -456.5 CHNG:  -474.6 DIFF:     3.9%
                                                DIFF:   -18.0   DF:   -22.5%
*******************************************************************************

60105 PR ISLD3  - 61950 BYRON  3   BASE:    18.2 CHNG:    23.8 DIFF:    30.2%
60304 EAU CL 3  - 39244 ARP 345    BASE:   238.4 CHNG:   243.0 DIFF:     1.9%

SUBTOTALS FOR: MWSI                BASE:   256.7 CHNG:   266.8 DIFF:     3.9%
                                                DIFF:    10.1   DF:    12.6%
*******************************************************************************

66756 SQBUTTE4  - 63049 STANTON4   BASE:     4.7 CHNG:     4.7 DIFF:     0.2%
66756 SQBUTTE4  - 66751 CENTER 4   BASE:   -87.4 CHNG:   -87.8 DIFF:     0.4%
66756 SQBUTTE4  - 66791 CENTER 3   BASE:    83.0 CHNG:    83.3 DIFF:     0.4%
63041 COAL CR4  - 63042 COAL TP4   BASE:   -26.8 CHNG:   -26.8 DIFF:     0.2%
63041 COAL CR4  - 63049 STANTON4   BASE:  -126.7 CHNG:  -127.0 DIFF:     0.2%
63041 COAL CR4  - 63381 UNDERWD4   BASE:   133.4 CHNG:   133.7 DIFF:     0.2%

SUBTOTALS FOR: NDDC                BASE:   -19.8 CHNG:   -19.8 DIFF:     0.0%
                                                DIFF:     0.0   DF:     0.0%
*******************************************************************************

67105 LELANDO3  - 66506 FTTHOMP3   BASE:    81.8 CHNG:    81.2 DIFF:    -0.6%
67105 LELANDO3  - 67160 GROTON 3   BASE:   159.1 CHNG:   158.5 DIFF:    -0.4%
67101 ANTELOP3  - 67120 HURON  3   BASE:   130.9 CHNG:   130.3 DIFF:    -0.4%
63314 BIGSTON4  - 66503 BLAIR  4   BASE:    71.4 CHNG:    70.4 DIFF:    -1.3%
66554 MORRIS 4  - 66550 GRANITF4   BASE:   -40.4 CHNG:   -40.8 DIFF:     0.9%
63336 AUDUBON4  - 63053 HUBBARD4   BASE:   123.0 CHNG:   123.7 DIFF:     0.6%
66521 SULLYBT4  - 66519 OAHE   4   BASE:   -89.6 CHNG:   -90.1 DIFF:     0.5%
63052 INMAN  4  - 61611 WINGRIV4   BASE:   134.7 CHNG:   136.1 DIFF:     1.1%
66470 BISON  4  - 66497 MAURINE4   BASE:    15.9 CHNG:    15.9 DIFF:    -0.4%
66716 LAPORTE7  - 61640 BADOURA7   BASE:     0.3 CHNG:     0.5 DIFF:    33.8%
63222 ALEXAND7  - 60144 DGLASCO7   BASE:    49.1 CHNG:    49.3 DIFF:     0.5%
67327 ELLENDL7  - 67401 ABDNJCT7   BASE:   -10.5 CHNG:   -10.8 DIFF:     2.4%
66432 EDGELEY7  - 66534 ORDWAY 7   BASE:   -31.3 CHNG:   -31.6 DIFF:     0.8%
66438 FORMAN 7  - 66522 SUMMIT-7   BASE:   -31.9 CHNG:   -32.2 DIFF:     0.8%
63211 CANBY  7  - 66551 GRANITF7   BASE:    10.2 CHNG:    10.2 DIFF:     0.1%
62006 KERKHO 7  - 62005 KERKHOT7   BASE:    10.7 CHNG:    10.6 DIFF:    -0.3%
66752 DRAYTON4  - 67557 LETELER4   BASE:  -229.7 CHNG:  -229.0 DIFF:    -0.3%
63379 RUGBY  4  - 67523 GLENBOR4   BASE:    34.7 CHNG:    35.4 DIFF:     1.9%

SUBTOTALS FOR: NDEX                BASE:   388.2 CHNG:   387.7 DIFF:    -0.1%
                                                DIFF:    -0.5   DF:    -0.6%
```

```
*******************************************************************************

60105 PR ISLD3  - 61950 BYRON  3   BASE:    18.2 CHNG:    23.8 DIFF:    30.2%

SUBTOTALS FOR: PRI-BYN             BASE:    18.2 CHNG:    23.8 DIFF:    30.2%
                                                DIFF:     5.5   DF:     6.9%
*******************************************************************************

36382 QUAD ;    - 64405 SUB 91 3   BASE:   221.4 CHNG:   225.3 DIFF:     1.7%
64400 MECCORD3  - 64403 E MOLIN3   BASE:    61.8 CHNG:    73.8 DIFF:    19.4%

SUBTOTALS FOR: QUADCITY_W          BASE:   283.2 CHNG:   299.0 DIFF:     5.6%
                                                DIFF:    15.8   DF:    19.7%
*******************************************************************************

64831 GENTLMN3  - 64943 REDWILO3   BASE:   348.9 CHNG:   351.0 DIFF:     0.6%

SUBTOTALS FOR: WNE_WKS             BASE:   348.9 CHNG:   351.0 DIFF:     0.6%
                                                DIFF:     2.0   DF:     2.5%
*******************************************************************************

66756 SQBUTTE4  - 63049 STANTON4   BASE:     4.7 CHNG:     4.7 DIFF:     0.2%
66756 SQBUTTE4  - 66751 CENTER 4   BASE:   -87.4 CHNG:   -87.8 DIFF:     0.4%
66756 SQBUTTE4  - 66791 CENTER 3   BASE:    83.0 CHNG:    83.3 DIFF:     0.4%

SUBTOTALS FOR: Y2DC                BASE:     0.3 CHNG:     0.3 DIFF:     0.0%
                                                DIFF:     0.0   DF:     0.0%
*******************************************************************************


## OTDF INTERFACES ##

34093 ARNOLD 3  - 34018 HAZLTON3   *CONTINGENCY* BASE:     0.0 CHNG:     0.0
-------------------------------------------------------------------------------
34091 ARNOLD 5  - 34089 VINTON 5   BASE:    -0.6 CHNG:    -6.1 DIFF:   996.6%

SUBTOTALS FOR: ARNVINARNHAZ        BASE:    -0.6 CHNG:    -6.1 DIFF:   996.6%
                                                DIFF:    -5.6   DF:    -6.9%
*******************************************************************************

36382 QUAD ;    - 34036 ROCK CK3   *CONTINGENCY* BASE:     0.0 CHNG:     0.0
-------------------------------------------------------------------------------
64425 DAVNPRT5  - 34122 E CALMS5   BASE:   128.3 CHNG:   126.2 DIFF:    -1.7%

SUBTOTALS FOR: DAVCALQUARCK        BASE:   128.3 CHNG:   126.2 DIFF:    -1.7%
                                                DIFF:    -2.2   DF:    -2.7%
*******************************************************************************

57981 LACYGNE7  - 57968 STILWEL7   *CONTINGENCY* BASE:     0.0 CHNG:     0.0
-------------------------------------------------------------------------------
57981 LACYGNE7  - 57965 W.GRDNR7   BASE:   864.4 CHNG:   862.3 DIFF:    -0.2%

SUBTOTALS FOR: LACWGRLACSTI        BASE:   864.4 CHNG:   862.3 DIFF:    -0.2%
                                                DIFF:    -2.1   DF:    -2.6%
*******************************************************************************

60331 LKFLDXL3  - 60108 WILMART3   *CONTINGENCY* BASE:     0.0 CHNG:     0.0
-------------------------------------------------------------------------------
34007 LAKEFLD5  - 34008 FOX LK 5   BASE:   166.3 CHNG:   169.1 DIFF:     1.7%

SUBTOTALS FOR: LKFFOXLKGWLM        BASE:   166.3 CHNG:   169.1 DIFF:     1.7%
                                                DIFF:     2.8   DF:     3.5%
*******************************************************************************

36406 WEMPL; B  - 39058 PAD 345    *CONTINGENCY* BASE:     0.0 CHNG:     0.0
-------------------------------------------------------------------------------
34028 LORE   5  - 34033 TRK RIV5   BASE:    78.2 CHNG:    76.0 DIFF:    -2.8%

SUBTOTALS FOR: LORTRKWEMPAD        BASE:    78.2 CHNG:    76.0 DIFF:    -2.8%
                                                DIFF:    -2.2   DF:    -2.7%
```

```
*******************************************************************************

64095 MNTZUMA3  - 64064 BONDRNT3   *CONTINGENCY* BASE:     0.0 CHNG:     0.0
-------------------------------------------------------------------------------
34185 POWESHK5  - 34191 REASNOR5   BASE:  -131.0 CHNG:  -136.7 DIFF:     4.3%

SUBTOTALS FOR: POWREAMTZBON        BASE:  -131.0 CHNG:  -136.7 DIFF:     4.3%
                                                 DIFF:    -5.6   DF:    -7.0%
*******************************************************************************

65351 S3451  3  - 63875 RAUN   3   *CONTINGENCY* BASE:     0.0 CHNG:     0.0
-------------------------------------------------------------------------------
65426 S1226  5  - 64987 TEKAMAH5   BASE:   -59.3 CHNG:   -64.6 DIFF:     9.0%

SUBTOTALS FOR: S1226TEKAMAH        BASE:   -59.3 CHNG:   -64.6 DIFF:     9.0%
                                                 DIFF:    -5.3   DF:    -6.6%
*******************************************************************************

36406 WEMPL; B  - 39058 PAD 345    *CONTINGENCY* BASE:     0.0 CHNG:     0.0
-------------------------------------------------------------------------------
34029 SALEM  3  - 34030 SALEM  5   BASE:   184.0 CHNG:   181.3 DIFF:    -1.4%

SUBTOTALS FOR: SALXFMWEMPAD        BASE:   184.0 CHNG:   181.3 DIFF:    -1.4%
                                                 DIFF:    -2.6   DF:    -3.3%
*******************************************************************************

63875 RAUN   3  - 34006 LAKEFLD3   *CONTINGENCY* BASE:     0.0 CHNG:     0.0
-------------------------------------------------------------------------------
66563 SPENCER5  - 34137 TRIBOJI5   BASE:   -85.8 CHNG:   -64.3 DIFF:   -25.1%

SUBTOTALS FOR: SPETRILAKRAU        BASE:   -85.8 CHNG:   -64.3 DIFF:   -25.1%
                                                 DIFF:    21.5   DF:    26.9%
*******************************************************************************
```

APPENDIX G

Base Case Development for Stability Analysis

The stability studies were conducted utilizing the April 2004 MS Windows Version of the NMORWG Stability Package. Pre-Group 2 power flow models and snapshots developed for MISO/Western Group #2 studies were used as a basis for developing the models for this study.

G.1 DEVELOPMENT OF PRE-GROUP 2 STABILITY MODEL

The starting point for the Pre-Group 2 power flow case was the Group 1 power flow case (*gr1-so03aa.uyvV4V4.sav*) from the MISO/WAPA Group 1 Stability Study in 2003. This choice was approved by the Group Studies Steering Committee.

The Pre-Group 2 case assumes essentially the same reinforcements that were modeled in the Pre-Group 2 steady-state analyses. This included MISO Transmission Expansion Plan reinforcements necessary to accommodate 825 MW of wind generation in the Buffalo Ridge Area, which, among other reinforcements, incorporate a new Split Rock-Nobles-Lakefield Junction 345 kV transmission line.

Generating projects that submitted interconnection requests before Group 2 were modeled at full output. Table G.1 lists the Pre-Group 2 generation plants.

The East Bias flows in the Group 1 and Pre-Group 2 power flow cases are 341 MW and 384 MW, respectively. These values are higher than historical levels that have been as high as 250 MW. However, the higher East Bias flows in the Group 1 and Pre-Group 2 power flow cases may be realistic expectations of future East Bias flows if all of the queued projects are completed as planned.

The SETEXPORTS IPLAN program was used to set MHEX to 2175 MW, NDEX to 1950 MW, and MWSI to 1480 MW. Then the Solve IPLAN program was used to solve the case. Finally, the TITLESAV IPLAN program was used to name the Pre-Group 2 power flow case to pg2-so03aa.uyvV4V4.sav.

The starting point for the Pre-Group 2 Stability Model was the dynamics data snapshot in the NMORWG Stability Package (*mapp01.snp*). Except for newer generators, the Pre-Group 2 power flow case was mostly compatible with this snapshot file.

MISO members provided dynamic data in the form of *DYR* files and/or input on how to dynamically model the new plants. Significant effort was expended in adjusting these data to work with the Pre-Group 2 power flow case, to create a viable Pre-Group 2 snapshot file, and achieve acceptable initialization and simulation. Table G.1 lists the Pre-Group 2 units.

The most significant effort was in modeling of the GE Wind Turbines in the Pre-Group 2 plants. The Group 1 Stability Study used the latest GE Wind Turbine model from PTI that was available at the beginning of that study. That GE Wind Turbine model had numerous bugs that have since been fixed. Because of the bug fixes and because two different versions of the GE Wind Turbine model cannot be used in the same dynamic model, all Pre-Group 2 GE Wind Turbines had to be re-modeled using the latest GE Wind Turbine model from PTI (circa June 2004).

The GE Wind Turbine model from PTI is not simply a dynamic data model. It includes an IPLAN program that must be run on a power flow case that has the equivalent wind farm modeled down to the collector system (e.g. 34.5 kV), without any wind generators present at that wind farm. As such, all Pre-Group 2 GE wind generators and generator step-up transformers (GSUs) had to be removed from the Pre-Group 2 power flow case before running the IPLAN program.

The GE Wind Turbine design has evolved over the last few years. Earlier designs in service before the end of year 2003 included a two-quadrant converter that was not capable of directly controlling generator terminal voltage. Instead, a reactive power setting can be received from a central wind farm voltage controller (e.g. WindVAR). In the newest design, GE uses a four-quadrant converter that allows independent control of active and reactive power and direct control of generator terminal voltage. This control can still be supervised by a central wind farm voltage controller.

The latest GE Wind Turbine model from PTI can model either of these control methods, depending on the setting of a switch on the model.

MISO provided a list of those GE wind farms in service by the end of 2003. These plants were modeled assuming constant generator Mvar with adjustment from the central wind farm voltage controller. All newer GE wind farms were modeled assuming local generator voltage control, with slower supervision from the central wind farm voltage controller.

It was also assumed that the older GE wind farms did not have under-voltage ride-through capability, and would thus trip instantaneously (20 ms) for generator terminal voltage below 70%. The newer GE wind farms were assumed to have the new standard ride-through package that allows operation below 70% voltage for up to 100 ms and trips instantaneously for voltage below 30%. These two options are also built into the latest GE Wind Turbine model from PTI.

The wind plants that are expected to use conventional induction generators (CIG) were modeled with the CIMTR3 Model in the PSS/E program. If specific data were provided, they were employed. Otherwise, typical wind induction generator parameters were used. The full dynamic model – snapshot, conec, conet, and dynamics-ready powerflow – has been provided to MISO and WAPA, and includes the most up-to-date description of the models and parameters utilized. A conventional induction generator consumes reactive power from the electric system. The CIMTR3 model automatically adjusts for any discrepancy between such reactive requirements and the generator output in the loadflow by adding fixed shunt capacitors at the terminals of the generator.

G.2 DEVELOPMENT OF GI0304 STABILITY MODEL

After establishing Pre-Group2 stability model, Prior-queued generation from Group 2 is added and dispatched based as per the data provided by MISO. Table G.2 lists the details of the Prior-queued generation from Group 2. Next, the GI0304 generation project was added and dispatched based as per the dispatch data provided by MISO for GI0304. The SETEXPORTS IPLAN program was used to set MHEX to 2175 MW, NDEX to 1950 MW, and MWSI to 1480 MW. Then the Solve IPLAN program was used to solve the case. Finally, the TITLESAV IPLAN program was used to name the GI0304 power flow case to 304-so03aa.uyvV4V4.sav.

Stability data for the GI0304 project was appended to the Pre-GI0304 snapshot in order to create the GI0304 snapshot (mapp01-304.snp). The details of GI0304 stability data are presented separately in Appendix H.

Table G.1: Pre-Group 2 Plants

Machine	ID	MW	Machine Type	Fast VAR Capability NO, YES, DN (Don't Know)	PSS/E Model
Woodstock		10	Induction machine	NO	CIMTR3
Chandler		6	Induction machine	NO	CIMTR3
Buffalo Ridge 200 MW					
	1	25	Kennetech 33m-vs, Induction machine	NO	CIMTR3
	2	85.5	Zond Z-750, Induction machine	NO	CIMTR3
	3	49	Zond Z-750; GE machine, DFIG	YES	PTI-DFIG
	4	12.6	NEG-MICON, Induction machine	NO	CIMTR3
	5	27.9	VESTAS, Induction machine	NO	CIMTR3
Chanarambie, 286 MW					
G226	1	9	VESTAS; Induction machine	DN	CIMTR3
G285	2	9	VESTAS, Induction machine	DN	CIMTR3
B'Ridge Remains	3	49	Zond Z-750, GE machine, DFIG,	YES	PTI-DFIG
G057	4	80	GE machine, DFIG;	YES	PTI-DFIG
G060	5	100	GE machine, DFIG;	YES	PTI-DFIG
G037	6	36	GE machine, DFIG;	YES	PTI-DFIG
G041 Chandler	7	2	Induction machine	DN	CIMTR3
Yankee G073		1	Induction machine	DN	CIMTR3
Pipestone G081		1	Induction machine	DN	CIMTR3
Hadley G097		2	Induction machine	DN	CIMTR3
G140 at Magnolia		2	Micon machines, Induction machine	DN	CIMTR3
G142 at Magnolia		2	MICON machines, Induction machine	DN	CIMTR3
Triboji G298		100	Micon machines, Induction machine	DN	CIMTR3

Machine	ID	MW	Machine Type	Fast VAR Capability NO, YES, DN (Don't Know)	PSS/E Model
Emery G186		600	Synchronous machines	YES	GENROU
Clipper G232		44	GE machine, DFIG	YES	PTI-DFIG
MEC Generators					
Council Bluff		750	Synchronous machines	YES	GENROU
WalL Lk. MEC8		150	GE machine, DFIG	YES	PTI-DFIG
Sac. County G305		160	GE machine, DFIG	YES	PTI-DFIG
Lk. Buena Vista		112	GE machine, DFIG	YES	PTI-DFIG
White 345 kV GI0108		200	Induction machine	DN	CIMTR3
Fenton 115 kV G162		200	GE machine, DFIG	YES	PTI-DFIG
Lakefield 345 kV G164		200	GE machine, DFIG	YES	PTI-DFIG
Yankee 115 kV G176	2	100	Induction machine	DN	CIMTR3
Pipestone G185		4.5	Induction machine	DN	CIMTR3
Split Rock - Magnolia G253		12	Induction machine	DN	CIMTR3
Yankee 115 kV G255	1	200	GE machine, DFIG	YES	PTI-DFIG
G141	1	46	Synchronous Machine		GENROU
G173	1	300	Synchronous Machine		GENROU
G261	1	667	Synchronous Machine		GENROU
G262	1	200	Induction machine	DN	CIMTR3
G263	1	105	Induction machine	DN	CIMTR3

Table G.2: Prior- queued Group 2 plants

Machine	ID	MW	Machine type	PSS/E Model
G272	1	9.9	Conventional Induction Machine	CIMTR3
G278	1	8.0	Conventional Induction Machine	CIMTR3
G287	1	200	DFIG	PTI-DFIG
GI0303	1	200	DFIG	PTI-DFIG

Appendix H Power Flow and Stability Data used for Stability analysis of GI0304

```
304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
 ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166

 CASE C:\MISO GR 2\Stability\Group2\package\lf\304-so03aa.uyvV4V4.sav WAS SAVED ON WED, AUG 18 2004  11:05

 DEFAULT OPTIONS MODIFIED:
  MATRIX GROWTH FACTOR: 2.5

0,   100.00          / PSS/E-29.4    FRI, AUG 20 2004  10:54
304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
 1056,'GI0304  ',  34.5000,1,     0.000,     0.000, 652, 654,1.01111,  84.6916,   1
66602,'GI0304  ', 161.0000,1,     0.000,     0.000, 652, 654,1.03175,  79.5033,   1
91056,'GI0304G1',   0.6900,2,     0.000,     0.000, 652, 654,1.00953,  88.4003,   1
0 / END OF BUS DATA, BEGIN LOAD DATA
0 / END OF LOAD DATA, BEGIN GENERATOR DATA
91056,'1 ',    80.992,   -35.931,   -35.931,   -35.931,1.00000,    0,    90.000,   0.00000,   0.20787,   0.00000,   0.00000,1.00000,1,
100.0,    81.000,     0.000,   1,1.0000
0 / END OF GENERATOR DATA, BEGIN BRANCH DATA
66563, 66602,'1 ',   0.00580,   0.04423,   0.02177,  241.00,  307.00,  241.00,  0.00000,  0.00000,  0.00000,  0.00000,1,   0.00,   1,1.0000
66566,-66602,'1 ',   0.01990,   0.15187,   0.07473,  241.00,  307.00,  241.00,  0.00000,  0.00000,  0.00000,  0.00000,1,   0.00,   1,1.0000
0 / END OF BRANCH DATA, BEGIN TRANSFORMER DATA
66602, 1056,    0,'1 ',1,2,1,   0.00000,   0.00000,2,'        ',1,   1,1.0000
   0.00000,   0.10000,   88.00
1.02500,   0.000,   0.000,    0.00,    0.00,    0.00,-2,     0, 1.05000, 0.95000, 5.00000, 0.00000, 160, 0, 0.00000, 0.00000
1.00000,   0.000
 1056,91056,    0,'1 ',1,1,1,   0.00000,   0.00000,2,'        ',1,   1,1.0000
   0.00000,   0.08152,   85.50
1.00000,   0.000,   0.000,    0.00,    0.00,    0.00, 0,     0, 1.10000, 0.90000, 1.10000, 0.90000,  33, 0, 0.00000, 0.00000
1.00000,   0.000
0 / END OF TRANSFORMER DATA, BEGIN AREA DATA
 652,66559,  1278.200,     5.000,'WAPA    '
0 / END OF AREA DATA, BEGIN TWO-TERMINAL DC DATA
0 / END OF TWO-TERMINAL DC DATA, BEGIN VSC DC LINE DATA
0 / END OF VSC DC LINE DATA, BEGIN SWITCHED SHUNT DATA
 1056,0,1.00000,1.00000,    0,'        ',   12.00, 1,  12.00
91056,1,1.01063,1.01063,    0,'        ',   35.91, 1,  35.91
0 / END OF SWITCHED SHUNT DATA, BEGIN IMPEDANCE CORRECTION DATA
0 / END OF IMPEDANCE CORRECTION DATA, BEGIN MULTI-TERMINAL DC DATA
0 / END OF MULTI-TERMINAL DC DATA, BEGIN MULTI-SECTION LINE DATA
0 / END OF MULTI-SECTION LINE DATA, BEGIN ZONE DATA
 654,'WAPA_654'
```

```
0 / END OF ZONE DATA, BEGIN INTER-AREA TRANSFER DATA
0 / END OF INTER-AREA TRANSFER DATA, BEGIN OWNER DATA
   1,'CENT HUD'
0 / END OF OWNER DATA, BEGIN FACTS DEVICE DATA
0 / END OF FACTS DEVICE DATA


      PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E      FRI, AUG 20 2004  10:56
 304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
 ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166

 CONET MODELS

 REPORT FOR ALL MODELS                        BUS 91056 [GI0304G10.6900] MODELS


              *** CALL VBDCN(  6357, 73555,     0,  9386) ***

                BUS   NAME  BSKV        GENR BUS   NAME  BSKV
              91056 GI0304G1.690               0 GI0304G1.690

                   I C O N S      C O N S       V A R
                   6357-6360    73555-73558     9386

                     VLO       VUP      PICKUP     TB
                     0.750     5.000     0.080     0.150


              *** CALL VBDCN(  6361, 73559,     0,  9387) ***

                BUS   NAME  BSKV        GENR BUS   NAME  BSKV
              91056 GI0304G1.690               0 GI0304G1.690

                   I C O N S      C O N S       V A R
                   6361-6364    73559-73562     9387

                     VLO       VUP      PICKUP     TB
                     0.000     1.200     0.080     0.150


              *** CALL VBDCN(  6365, 73563,     0,  9388) ***

                BUS   NAME  BSKV        GENR BUS   NAME  BSKV
              91056 GI0304G1.690               0 GI0304G1.690

                   I C O N S      C O N S       V A R
                   6365-6368    73563-73566     9388
```

```
       VLO       VUP      PICKUP     TB
       0.850     5.000     0.400     0.150


 *** CALL VBDCN(  6369, 73567,     0,  9389) ***

  BUS   NAME  BSKV        GENR BUS   NAME  BSKV
91056 GI0304G1.690               0 GI0304G1.690

     I C O N S      C O N S       V A R
     6369-6372    73567-73570     9389

       VLO       VUP      PICKUP     TB
       0.000     1.135     0.200     0.150


 *** CALL VBDCN(  6373, 73571,     0,  9390) ***

  BUS   NAME  BSKV        GENR BUS   NAME  BSKV
91056 GI0304G1.690               0 GI0304G1.690

     I C O N S      C O N S       V A R
     6373-6376    73571-73574     9390

       VLO       VUP      PICKUP     TB
       0.900     5.000    60.000     0.150


 *** CALL VBDCN(  6377, 73575,     0,  9391) ***

  BUS   NAME  BSKV        GENR BUS   NAME  BSKV
91056 GI0304G1.690               0 GI0304G1.690

     I C O N S      C O N S       V A R
     6377-6380    73575-73578     9391

       VLO       VUP      PICKUP     TB
       0.000     1.100    60.000     0.150
```

Appendix I List of simulations

Fault Name	Disturbance Title 1 Disturbance Title 2
vt3	4 cycle 3 phase fault at LGS 345 Clear the LGS-Wilmarth 345 kV line 60331 60108 1
ei2	Permanent bipole fault on the CU dc line both coal creek units tripped at 0.28 sec
Nbz	4 cycle, three phase fault at chisago county trip f601c cross trip d602f, use new 100% reduction init from chisago
nmz	4 cycle, three phase fault at chisago county trip f601c cross trip d602f, use new 100% reduction init from chisago **do not trip Forbes SVS**

Fault Name	Disturbance Title 1 Disturbance Title 2
xo3	6 cycle 3 phase fault at GI-0304 161 Clear the GI-0304 - Spencer 161 kV line 66602 66563 1
xp3	6 cycle 3 phase fault at GI-0304 161 Clear the GI-0304 - Sioux City 161 kV line 66602 66566 1

Appendix J Simulation Plots for selected fault scenarios in Stability Analysis

J.1 SIMULATION SUMMARY TABLE
J.2 DISTURBANCE XO3 WITH GI0304
J.3 DISTURBANCE XO3-NT WITH GI0304
J.4 DISTURBANCE XP3 WITH GI0304
J.5 DISTURBANCE XP3-NT WITH GI0304

J.1 Simulation Summary Table

Case No.	1	2	3	4
Case Name	304-so03aa.uyvV4V4-ei2	303-so03aa.uyvV4V4-ei2	304-so03aa.uyvV4V4-nbz	303-so03aa.uyvV4V4-nbz
Disturbance	ei2	ei2	nbz	nbz
Prior Outage	None	None	None	None
Date/Time	AUG 18 2004 11:48	AUG 13 2004 13:50	AUG 18 2004 12:01	AUG 13 2004 14:04
Comments		WITHOUT GI0304		WITHOUT GI0304
Steady State Flows				
NDFX / FAST BIAS	1950 / 412	1950 / 410	1950 / 412	1950 / 410
MHEX / L20D	2172 / 199	2171 / 200	2172 / 199	2171 / 200
ECL-ARP / PRI-BYN	806 / 675	807 / 675	806 / 675	807 / 675
MWSI / MNEX	1482 / 1153	1482 / 1167	1482 / 1153	1482 / 1167
D602F / F601C	1860 / 1948	1858 / 1946	1860 / 1948	1858 / 1946
B10T / MH>SPC	166 / 75	168 / 77	166 / 75	168 / 77
OH E-W / OH>MH	-202 / -197	-203 / -198	-202 / -197	-203 / -198
R50M / OH>MP	152 / 150	151 / 150	152 / 150	151 / 150
G82R	-39	-38	-39	-38
Dorsey BP1 / BP2	1511 / 1710	1512 / 1712	1511 / 1710	1512 / 1712
Dorsey Reserve / Wtrtn SVC	109 / 49	112 / 46	109 / 49	112 / 46
Forbes SVC / MSC	34 / 600	32 / 600	34 / 600	32 / 600
Steady State Vltgs				
Dorsey 500/Dorsey 230	1.032 / 1.045	1.032 / 1.045	1.032 / 1.045	1.032 / 1.045
Roseau 500/Forbes 500	1.061 / 0.990	1.061 / 0.991	1.061 / 0.990	1.061 / 0.991
Chisago 500/EauClaire 345	0.992 / 0.956	0.993 / 0.956	0.992 / 0.956	0.993 / 0.956
Int Falls 115/Badoura 115	1.012 / 0.984	1.012 / 0.985	1.012 / 0.984	1.012 / 0.985
Drayton 230/Groton 345	1.029 / 1.019	1.029 / 1.019	1.029 / 1.019	1.029 / 1.019
SS OS Relay Margins				
D602F at Forbes/Dorsey	206% / 325%	207% / 327%	206% / 325%	207% / 327%
G82R at Rugby/L20D at Drayton	999% / 999%	999% / 999%	999% / 999%	999% / 999%
R50M/F3M	879% / 315%	882% / 315%	879% / 315%	882% / 315%
B10T	338%	331%	338%	331%
Min/MaxTransientVltg				
Arrowhd 230	0.88 | 1.06	0.89 | 1.06	(0.66)0.73 | 1.08	(0.64)0.73 | 1.08
Boise 115	0.95 | 1.05	0.95 | 1.05	0.97 | 1.06	0.97 | 1.06
Dorsey 230	1.01 | 1.06	1.01 | 1.06	1.05 | 1.18	1.05 | 1.18
Forbes 230	0.87 | 1.02	0.87 | 1.02	0.82 | 1.08	0.82 | 1.08
Riverton 230	0.80 | 1.03	0.80 | 1.03	(0.64)0.65 | 1.01	(0.64)0.66 | 1.01
Coal Creek 230	1.00 | 1.13	1.00 | 1.13	0.91 | 1.12	0.91 | 1.12
Dickinson 345	0.97 | 1.07	0.97 | 1.07	0.90 | 1.10	0.91 | 1.10
Drayton 230	0.93 | 1.11	0.94 | 1.11	0.97 | 1.10	0.97 | 1.10
Groton 345	0.87 | 1.07	0.87 | 1.07	0.84 | 1.05	0.84 | 1.05
Tioga 230	1.00 | 1.07	1.00 | 1.07	0.99 | 1.07	0.99 | 1.07
Wahpeton 115	0.82 | 1.08	0.82 | 1.08	(0.64)0.78 | 1.04	(0.64)0.78 | 1.04
Watertown 345	0.89 | 1.06	0.89 | 1.06	0.84 | 1.05	0.84 | 1.05
Dynamic Voltage Warnings				
	62425 [WILLMAR7] 0.68 62980 [MCLEOD 4] 0.69	62425 [WILLMAR7] 0.69	62425 [WILLMAR7] 0.68 61617 [MUDLAKE4] 0.72 61612 [RIVERTN4] 0.73 61648 [PEQUOT 7] 0.73 61650 [LITTLEF7] 0.73 62175 [DEWING] 0.74 61611 [WINGRIV4] 0.74 +more	62425 [WILLMAR7] 0.68 61617 [MUDLAKE4] 0.72 61648 [PEQUOT 7] 0.73 61612 [RIVERTN4] 0.73 61611 [WINGRIV4] 0.74 61649 [BLNCHRD7] 0.74 61650 [LITTLEF7] 0.74 +more
Worst Case Angle Damping				
Dorsey SUVP / UdHold			/ 0.133	/ 0.133
Forbes DC Red (DCAR)	507%	507%	507%	507%
K22W (max +dP @ t, d-ang)	69.0@(3.11654,-38.3)	68.4@(3.09987,-38.2)	147.5@(2.84988,-71.2)	147.2@(2.83321,-71.0)
K22W (max -dP @ t, d-ang)	17.7@(0.74164,5.6)	17.1@(0.74164,5.4)	87.3@(0.23332,8.3)	87.2@(0.23332,8.3)
K22W (max d-ang @ t, dP)	-41.8@(2.60822,56.4)	-41.8@(2.59989,56.6)	-71.4@(2.75822,144.1)	-71.3@(2.72489,142.5)
OS Rel Trip / Marg				
MH - OH				
D602F at Forbes/Dorsey	85% / 128%	87% / 131%	0.18333 sec / 0.18333 sec	0.18333 sec / 0.18333 sec
G82R at Rugby/L20D at Drayton	999% / 999%	999% / 999%	999% / 999%	999% / 999%
R50M / F3M	570% / 199%	575% / 199%	495% / 150%	497% / 150%
B10T	87%	85%	129%	122%
FSCAPS (SS/Unav/Final)				
Balta 230	(0 | 0 | 0)	(0 | 0 | 0)	(0 | 2 | 0)	(0 | 2 | 0)
Eau Cl 345 / Park Lk 115	(4 | 4 | 4) / (3 | 3 | 3)	(4 | 4 | 4) / (3 | 3 | 3)	(4 | 4 | 2) / (3 | 3 | 3)	(4 | 4 | 2) / (3 | 3 | 3)
Prairie 115 / Ramsey 230	(1 | 7 | 1) / (0 | 2 | 0)	(1 | 7 | 1) / (0 | 2 | 0)	(1 | 5 | 1) / (0 | 1 | 0)	(1 | 5 | 1) / (0 | 1 | 0)
Roseau 230 / Running 230	(0 | 1 | 0) / (1 | 3 | 1)	(0 | 1 | 0) / (1 | 3 | 1)	(0 | 0 | 0) / (1 | 3 | 0)	(0 | 0 | 0) / (1 | 3 | 0)
Shey 115 / Split Rock 115	(1 | 5 | 2) / (1 | 2 | 2)	(1 | 5 | 2) / (1 | 2 | 2)	(1 | 5 | 5) / (1 | 2 | 2)	(1 | 5 | 5) / (1 | 2 | 2)
Case	304-so03aa.uyvV4V4-ei2	303-so03aa.uyvV4V4-ei2	304-so03aa.uyvV4V4-nbz	303-so03aa.uyvV4V4-nbz
Disturbance	ei2	ei2	nbz	nbz
System Response	OK	OK	OK	OK
70% or 120% Violations	WM	W	WMRPLDW	WMPRWBL
ORWG Criteria Violations			346	346
Line Tripping			(5T)(6T)	(5T)(6T)

Case No.	5	6	7	8
Case Name	304-so03aa.uyvV4V4-nmz	303-so03aa.uyvV4V4-nmz	304-so03aa.uyvV4V4-xo3	304-so03aa.uyvV4V4-xo3-nt
Disturbance	nmz	nmz	xo3	xo3
Prior Outage	None	None	None	None
Date/Time	AUG 18 2004 12:15	AUG 13 2004 14:18	AUG 18 2004 13:20	AUG 18 2004 13:44
Comments		WITHOUT GI0304		
Steady State Flows				
NDFX / FAST BIAS	1950 / 412	1950 / 410	1950 / 412	1950 / 412
MHEX / L20D	2172 / 199	2171 / 200	2172 / 199	2172 / 199
ECL-ARP / PRI-BYN	806 / 675	807 / 675	806 / 675	806 / 675
MWSI / MNEX	1482 / 1153	1482 / 1167	1482 / 1153	1482 / 1153
D602F / F601C	1860 / 1948	1858 / 1946	1860 / 1948	1860 / 1948
B10T / MH>SPC	166 / 75	168 / 77	166 / 75	166 / 75
OH E-W / OH>MH	-202 / -197	-203 / -198	-202 / -197	-202 / -197
R50M / OH>MP	152 / 150	151 / 150	152 / 150	152 / 150
G82R	-39	-38	-39	-39
Dorsey BP1 / BP2	1511 / 1710	1512 / 1712	1511 / 1710	1511 / 1710
Dorsey Reserve / Wtrtn SVC	109 / 49	112 / 46	109 / 49	109 / 49
Forbes SVC / MSC	34 / 600	32 / 600	34 / 600	34 / 600
Steady State Vltgs				
Dorsey 500/Dorsey 230	1.032 / 1.045	1.032 / 1.045	1.032 / 1.045	1.032 / 1.045
Roseau 500/Forbes 500	1.061 / 0.990	1.061 / 0.991	1.061 / 0.990	1.061 / 0.990
Chisago 500/EauClaire 345	0.992 / 0.956	0.993 / 0.956	0.992 / 0.956	0.992 / 0.956
Int Falls 115/Badoura 115	1.012 / 0.984	1.012 / 0.985	1.012 / 0.984	1.012 / 0.984
Drayton 230/Groton 345	1.029 / 1.019	1.029 / 1.019	1.029 / 1.019	1.029 / 1.019
SS OS Relay Margins				
D602F at Forbes/Dorsey	206% / 325%	207% / 327%	206% / 325%	206% / 325%
G82R at Rugby/L20D at Drayton	999% / 999%	999% / 999%	999% / 999%	999% / 999%
R50M/F3M	879% / 315%	882% / 315%	879% / 315%	879% / 315%
B10T	338%	331%	338%	338%
Min/MaxTransientVltg				
Arrowhd 230	0.83 | 1.04	0.84 | 1.04	1.02 | 1.03	1.02 | 1.03
Boise 115	0.94 | 1.05	0.94 | 1.05	1.00 | 1.02	1.01 | 1.01
Dorsey 230	1.04 | 1.18	1.04 | 1.18	1.04 | 1.05	1.04 | 1.05
Forbes 230	0.95 | 1.03	0.95 | 1.03	0.99 | 1.00	1.00 | 1.00
Riverton 230	(0.62)0.71 | 0.99	(0.62)0.72 | 0.99	0.98 | 0.99	0.98 | 0.99
Coal Creek 230	0.91 | 1.11	0.91 | 1.11	1.03 | 1.04	1.03 | 1.04
Dickinson 345	0.91 | 1.08	0.91 | 1.09	1.02 | 1.03	1.02 | 1.03
Drayton 230	0.97 | 1.10	0.98 | 1.10	1.02 | 1.03	1.03 | 1.03
Groton 345	0.86 | 1.05	0.86 | 1.05	1.01 | 1.02	1.02 | 1.02
Tioga 230	0.99 | 1.07	0.99 | 1.07	1.03 | 1.04	1.04 | 1.04
Wahpeton 115	0.80 | 1.03	0.81 | 1.03	1.01 | 1.01	1.01 | 1.01
Watertown 345	0.86 | 1.05	0.86 | 1.05	1.02 | 1.03	1.03 | 1.03
Dynamic Voltage Warnings				
	62425 [WILLMAR7] 0.65 62980 [MCLEOD 4] 0.67 63054 [PANTHER4] 0.68 60898 [GLENCOE] 0.68 62981 [MCLEOD 7] 0.69 61617 [MUDLAKE4] 0.72 61647 [LONG PR7] 0.72 +more	62425 [WILLMAR7] 0.65 62980 [MCLEOD 4] 0.67 63054 [PANTHER4] 0.68 60898 [GLENCOE] 0.68 62981 [MCLEOD 7] 0.69 61617 [MUDLAKE4] 0.72 61647 [LONG PR7] 0.72 +more	none	none
Worst Case Angle Damping				
Dorsey SUVP / UdHold	/ 0.133	/ 0.133		
Forbes DC Red (DCAR)	507%	507%	496%	483%
K22W (max +dP @ t, d-ang)	138.4@(2.80822,-67.5)	137.8@(2.79988,-67.3)	10.5@(2.71655,-6.8)	1.0@(2.84155,-0.4)
K22W (max -dP @ t, d-ang)	88.9@(0.23332,8.2)	88.7@(0.23332,8.2)	0.9@(0.56664,0.3)	1.7@(1.93325,0.3)
K22W (max d-ang @ t, dP)	-68.6@(2.63322,129.6)	-68.4@(2.62489,128.9)	-6.9@(2.58323,10.2)	1.3@(1.18329,-0.2)
OS Rel Trip / Marg				
MH - OH				
D602F at Forbes/Dorsey	0.18333 sec / 0.18333 sec	0.18333 sec / 0.18333 sec	187% / 293%	200% / 316%
G82R at Rugby/L20D at Drayton	999% / 999%	999% / 999%	999% / 999%	999% / 999%
R50M / F3M	460% / 176%	460% / 174%	827% / 289%	860% / 309%
B10T	139%	134%	288%	324%
FSCAPS (SS/Unav/Final)				
Balta 230	(0 | 2 | 0)	(0 | 2 | 0)	(0 | 0 | 0)	(0 | 0 | 0)
Eau Cl 345 / Park Lk 115	(4 | 4 | 2) / (3 | 3 | 3)	(4 | 4 | 2) / (3 | 3 | 3)	(4 | 4 | 4) / (3 | 3 | 3)	(4 | 4 | 4) / (3 | 3 | 3)
Prairie 115 / Ramsey 230	(1 | 5 | 1) / (0 | 1 | 0)	(1 | 5 | 1) / (0 | 1 | 0)	(1 | 1 | 1) / (0 | 0 | 0)	(1 | 1 | 1) / (0 | 0 | 0)
Roseau 230 / Running 230	(0 | 0 | 0) / (1 | 4 | 0)	(0 | 0 | 0) / (1 | 4 | 1)	(0 | 0 | 0) / (1 | 1 | 1)	(0 | 0 | 0) / (1 | 1 | 1)
Shey 115 / Split Rock 115	(1 | 5 | 5) / (1 | 2 | 2)	(1 | 5 | 5) / (1 | 2 | 2)	(1 | 1 | 1) / (1 | 2 | 2)	(1 | 1 | 1) / (1 | 2 | 2)
Case	304-so03aa.uyvV4V4-nmz	303-so03aa.uyvV4V4-nmz	304-so03aa.uyvV4V4-xo3	304-so03aa.uyvV4V4-xo3-nt
Disturbance	nmz	nmz	xo3	xo3
System Response	OK	OK	OK	OK
70% or 120% Violations	WMPGMML	WMPGMML		
ORWG Criteria Violations	4	4		
Line Tripping	(5T)(6T)	(5T)(6T)		

Case No.	9	10
Case Name	304-so03aa.uyvV4V4-xp3	304-so03aa.uyvV4V4-xp3-nt
Disturbance	xp3	xp3
Prior Outage	None	None
Date/Time	AUG 18 2004 13:31	AUG 18 2004 13:55
Comments		
Steady State Flows		
NDEX / FAST BIAS	1950 / 412	1950 / 412
MHEX / L20D	2172 / 199	2172 / 199
ECL-ARP / PRI-BYN	806 / 675	806 / 675
MWSI / MNEX	1482 / 1153	1482 / 1153
D602F / F601C	1860 / 1948	1860 / 1948
B10T / MH>SPC	166 / 75	166 / 75
OH E-W / OH>MH	-202 / -197	-202 / -197
R50M / OH>MP	152 / 150	152 / 150
G82R	-39	-39
Dorsey BP1 / BP2	1511 / 1710	1511 / 1710
Dorsey Reserve / Wtrtn SVC	109 / 49	109 / 49
Forbes SVC / MSC	34 / 600	34 / 600
Steady State Vltgs		
Dorsey 500/Dorsey 230	1.032 / 1.045	1.032 / 1.045
Roseau 500/Forbes 500	1.061 / 0.990	1.061 / 0.990
Chisago 500/EauClaire 345	0.992 / 0.956	0.992 / 0.956
Int Falls 115/Badoura 115	1.012 / 0.984	1.012 / 0.984
Drayton 230/Groton 345	1.029 / 1.019	1.029 / 1.019
SS OS Relay Margins		
D602F at Forbes/Dorsey	206% / 325%	206% / 325%
G82R at Rugby/L20D at Drayton	999% / 999%	999% / 999%
R50M/F3M	879% / 315%	879% / 315%
B10T	338%	338%
Min/MaxTransientVltg		
Arrowhd 230	1.02 | 1.03	1.02 | 1.03
Boise 115	1.00 | 1.02	1.01 | 1.01
Dorsey 230	1.04 | 1.05	1.04 | 1.05
Forbes 230	0.99 | 1.00	1.00 | 1.00
Riverton 230	0.98 | 0.99	0.98 | 0.99
Coal Creek 230	1.03 | 1.04	1.03 | 1.04
Dickinson 345	1.02 | 1.03	1.02 | 1.03
Drayton 230	1.02 | 1.03	1.03 | 1.03
Groton 345	1.01 | 1.02	1.02 | 1.02
Tioga 230	1.03 | 1.04	1.04 | 1.04
Wahpeton 115	1.01 | 1.01	1.01 | 1.01
Watertown 345	1.02 | 1.03	1.03 | 1.03
Dynamic Voltage Warnings		
	none	none
Worst Case Angle Damping		
Dorsey SUVP / UdHold		
Forbes DC Red (DCAR)	496%	479%
K22W (max +dP @ t, d-ang)	10.4@(2.71655,-6.8)	1.0@(2.84988,-0.3)
K22W (max -dP @ t, d-ang)	0.9@(0.56664,0.4)	1.8@(1.95825,0.3)
K22W (max d-ang @ t, dP)	-6.8@(2.58323,10.0)	1.4@(1.20829,-0.2)
OS Rel Trip / Marg		
MH - OH		
D602F at Forbes/Dorsey	187% / 293%	200% / 316%
G82R at Rugby/L20D at Drayton	999% / 999%	999% / 999%
R50M / F3M	827% / 289%	860% / 309%
B10T	288%	323%
FSCAPS (SS/Unav/Final)		
Balta 230	(0 | 0 | 0)	(0 | 0 | 0)
Eau Cl 345 / Park Lk 115	(4 | 4 | 4) / (3 | 3 | 3)	(4 | 4 | 4) / (3 | 3 | 3)
Prairie 115 / Ramsey 230	(1 | 1 | 1) / (0 | 0 | 0)	(1 | 1 | 1) / (0 | 0 | 0)
Roseau 230 / Running 230	(0 | 0 | 0) / (1 | 1 | 1)	(0 | 0 | 0) / (1 | 1 | 1)
Shey 115 / Split Rock 115	(1 | 1 | 1) / (1 | 2 | 2)	(1 | 1 | 1) / (1 | 2 | 2)

Case	304-so03aa.uyvV4V4-xp3	304-so03aa.uyvV4V4-xp3-nt
Disturbance	xp3	xp3
System Response	OK	OK
70% or 120% Violations		
ORWG Criteria Violations		
Line Tripping		

J.2 Disturbance xo3 with GI0304

6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE

WED, AUG 18 2004 13:20

INITIATED AT LOAD FLOW ENTRY POINT ON WED, AUG 18 2004 13:20

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166

6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE

SPECIAL RESPONSE FILES AND COMMENTS
--- --- --- --- ---

RESPONSE FILES
--- ---
None

COMMENTS

None

P O W E R F L O W S U M M A R Y

NDEX:	1950 MW	ECL-ARP:	806 MW
MHEX:	2172 MW	PRI-BYN:	675 MW
MWSI:	1482 MW	LKM-WFB:	-55 MW
		NI-WUMS:	430 MW
COOPER S:	1197 MW	WNE-WKS:	592 MW
FTCAL S:	863 MW	GGS:	1646 MW
GRIS-LNC:	743 MW	QC WEST:	-122 MW

LOAD LEVELS AS PERCENT OF 2003 SUMMER PEAK:

NORTH DAKOTA	(ZONE 90,990)	1744.5 MW,	66.3% OF	2632.4 MW
NSP	(AREA 600)	8741.2 MW,	96.2% OF	9083.5 MW
MAN HYDRO	(AREA 667)	2264.9 MW,	85.0% OF	2663.8 MW

Load/Losses	MW / MW	Generation	MW	Export	MW
Manitoba	2264/ 364	MH total gross	4951	MN-WUMS	1058
Ont. total	22447/ 535	Wpg River	560	MN-IOWA	-720
NW	724/ 65	7 Sisters	163	MNEX	1153
Sask.	2384/ 78	OH total gross	23037	East Bias	412
MP	1666/ 119	northwest	943	SPC>WAPA (B10T)	166
NSP	8741/ 710	SPC total gross	2627	MH>SPC (3-230)	75
N. Dakota	1744/ 272	MP total gross	2100	MH>SPC (FALLS)	-71
Manitoba	556 MVARS	ND Cfd AC gross	3034	OH>MH @Kenora	-197
Ont. total	13190 MVARS	net	2863	OH>MP @Ft Fran	150
NW	425 MVARS	NSP East gross	1928	OH E>W @Wawa	-202
Sask.	569 MVARS	net	1819	OH>East USA	-2
MP	445 MVARS	West gross	2239	F601C @Forbes	1948
NSP	1513 MVARS	net	2073	D602F @Dorsey	1860
N. Dakota	362 MVARS	Total net	7218	L20D @Letell	199
		WAPA SD Hydro	1441	R50M @Richer	152
		Pleasant Valley	0	G82R @Glenboro	-39
		Lakefield Gen	549		
		Buffalo Ridge	151		
		Swing Bus	620		

Tfmrs	MVA/ Load	Ph Shifters	Deg/ MW	DC Lines	MW
Wshell #1 7-7	100/ 50%	Stinson	50/ 108	CU (1,2)	1075
Wshell #2 7-7	100/ 50%	Boundary Dam	26/ 166	Miles City E>W	-150
Drayton#1 4-7	41/ 29%	Whiteshell	16/ 200	SQ BU (3,4)	400
Drayton#2 4-7	53/ 28%	Int Falls	31/ 150	MH Bipole 1	1511
Dorsey #1 2-4	878/ 73%	St. Lawrence	7/ 2	MH Bipole 2	1710
Dorsey #2 2-4	1038/ 86%			MH (BP1+BP2)	3221
Forbes 2-4	116/ 17%				

Dorsey SC's		I/S	MVAR	Qmax/ Qmin
MIL 7-9G	17.0	2	557	600/ -330
SCE 1-3G	18.2	3	447	480/ -240
SCA 4-6G	18.2	3	447	480/ -240
Total			1451	1560/ -810
Margin			109	

SVC's	MVAR	Qmax/ Qmin
Forbes	500	34 400/ -450
Fargo	13.2	2 20/ -135
Watertown	20.0	49 125/ -86

Series Caps	Num In Serv
Roseau 500	2 of 2
Chisago 500	1 of 1

Caps/Reactors	MVAR	Caps/Reactors	MVAR	Caps/Reactors	MVAR
Balta (FS) 230	0	Arrowhead 230	160	Chisago T 9 34.5	50
Drayton 115	20	Blackberry 230	47	Chisago T 10 34.5	50
Drayton 13.8	0	Minntac 115	45	Forbes 230	72
Eau Claire(FS) 161	356	Riverton 230	47	Forbes 500	600
Kohlman Lake 115	233	Roseau Co.(FS) 230	0		0
Parkers Lk(FS) 115	240	Running (FS) 230	30	Fargo 115	54
Prairie (FS) 115	40	Running react 230	0	Watertown 20	20
Ramsey (FS) 230	0	Shannon 230	72	Watertown 230	76
Red Rock 115	156		0		0
Rugby 13.8	-25	Glenboro 230	0		0
Split Rock(FS) 115	80	Laverendrye 110	98		0
Sheyenne (FS) 115	40	Richer react 230	0		0
Wilton/Bemidji 115	0	St Vital 110	98		0

Bus Voltages	V,pu	Bus Voltages	V,pu	Bus Voltages	V,kV
Adams 345	1.016	Arrowhead 230	1.025	Whiteshell 110	118.8
Alexandria 115	0.982	Badoura 115	0.984	Kenora 220	240.8
Audubon 115	1.010	Blackberry 230	1.021	Dryden 220	241.4
Bemidji 115	0.985	Boise Cascade 13.8	1.067	Fort Frances 220	235.5
Byron 345	1.036	Boise Cascade 115	1.013	Mackenzie 220	243.7
Chisago Co. 345	1.001	ETCO 115	0.994	Lakehead 220	245.5
Chisago Co. 500	0.992	Forbes 230	1.002	Marathon 220	239.3
Drayton 230	1.029	Forbes 500	0.990	Wawa 220	235.1
Eau Claire 345	0.956	Hubbard 115	0.976	Mississagi 220	232.6
Faribault,West 115	1.023	Intl Falls 115	1.012	Fort Frances 118	118.4
LaPorte 115	0.984	Minntac 115	1.001	Lakehead 118	123.5
Maple River 230	1.005	Moranville 230	1.034	Birch 118	121.4
Marshall Tap 115	1.019	Riverton 230	0.983	Marathon 118	124.3
Owatonna 161	0.999	Running 230	1.026		0.0
Prairie 115	1.006	Shannon 230	1.020		0.0
Prairie 230	1.026		0.000		0.0
Ramsey 230	1.027	Groton 345	1.019		0.0
Roseau County 230	1.035	Watertown 230	1.030		0.0
Roseau County 500	1.061	Watertown 345	1.027		0.0
Sheyenne 230	1.006		0.000		0.0
Thief R Falls 115	1.014	Dorsey 230	1.045		0.0
Tioga 230	1.039	Dorsey 500	1.032		0.0
Wahpeton 230	0.991		0.000		0.0
Winger 115	1.024		0.000		0.0

Steady State Relay Margins (measured from inner blinder)

Relay Location	Manuf/Type	PSS Model	South	North	Em North
1) B10T-Tioga (South)	GE OST	SLLP	337%	N/A	N/A
2) -Tioga (North)	GE OST	SLLP	694%	N/A	N/A
3) -Tioga (Em North)	GE OST	SLLP		N/A	N/A
4) D602F-Dorsey	ATP ???	SLINOS	325%	N/A	N/A
5) -Forbes (Normal)	ATP ???	SLINOS	205%	N/A	N/A
6) -Forbes (Em Nrth)	APT S-PRO	SLINOS		N/A	N/A
8) F3M-Intl Falls	APT S-PRO	SLINOS	315%	N/A	N/A
9) G82R-Rugby	APT	SLINOS	N/A	1329%	
10) L20D-Drayton (Normal)	APT, ASEA	SLINOS	1094%	N/A	N/A
11) -Drayton (Em Nrth)	ASEA RXZF2	SLINOS		N/A	N/A
12) R50M-Moranville (Norm)	APT, West	SLINOS	879%	N/A	N/A
13) -Moranville (Em N)	ASEA RXZF2	SLINOS		N/A	N/A

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     SIMULATION CHECKS FOLLOW:
+    ________________________

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 ITER DELTAV/TOL X------ AT BUS ------X  REAL(DELTAV)  IMAG(DELTAV)
    1    48.135  67171 [MBPP-1  230.00]   -0.4015E-04    0.2655E-04
    2    15.296  67171 [MBPP-1  230.00]   -0.1329E-04    0.7576E-05
    3     5.569  67171 [MBPP-1  230.00]    0.4259E-05   -0.3589E-05
    4     2.086  67171 [MBPP-1  230.00]   -0.1606E-05    0.1330E-05
    5     0.819  67171 [MBPP-1  230.00]    0.6450E-06   -0.5055E-06

 REACHED TOLERANCE IN   5 ITERATIONS

 LARGEST MISMATCH:    0.00 MW    0.01 MVAR     0.01 MVA AT BUS 36023 [SLINE; B138.00]
 SYSTEM TOTAL ABSOLUTE MISMATCH:               0.33 MVA

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 INITIAL CONDITION LOAD FLOW USED  1 ITERATIONS

 ***************************************************************************

 INITIAL CONDITIONS SUSPECT:
     I   DSTATE(I)    STATE(I)     MODEL   STATE    BUS  X--- NAME ---X   ID
 19523  -0.30413E-02 -0.22715      IEEEX1   K+2   59823  MOCTG1 113.800   1
 19952  -0.12614E-02  0.10000      IEEET1   K+1   63802  CBLUF33G24.000   3
 19968  -0.78183E-02  0.10000      IEEET1   K+1   63882  NEAL  2G20.000   2
 19972  -0.57429E-02  0.10000      IEEET1   K+1   63883  NEAL  3G22.000   3
 19976  -0.48500E-02  0.10000      IEEET1   K+1   63884  NEAL  4G24.000   4
 20033  -0.24382E-02  0.10000      IEEET1   K+1   64496  AMES 8  69.000   8
 20092  -0.18895E-02 -0.14396      IEEET1   K+1   65301  FT CAL1G22.000   1
 22050   0.29647E-04 -0.22582E-02  IEEET1   K+1   93518  OK C G6 18.000   H
 24934   0.26199     -0.47962E-01  GASTWD   K+5   65314  SARPY 4G13.800   4
 27811   0.40143      0.17527      GAST2A   K+5   68347  CORYGT1G13.800   1
 27824   0.45155      0.98846E-02  GAST2A   K+5   68348  CORYGT2G13.800   2
 27839   0.47956     -0.82564E-01  GAST2A   K+5   68367  MERGT 1G13.800   1
 27852   0.47956     -0.82564E-01  GAST2A   K+5   68368  MERGT 2G13.800   2
 28070  -0.46492E-03  0.16854E-01  CGECN2   K+7   91008  MEC BV  0.5750   1
 28961  -0.25194       4.3804      IEEET1   K+1   63710  WISDOM 869.000   1
 28965  -0.29168       3.9423      IEEET1   K+1   63710  WISDOM 869.000   2
 29005  -0.26848       2.0140      IEEET1   K+1   66581  SPENCER869.000   1
 29082   0.42596     -0.33565      GAST2A   K+5   34910  EMERYGT118.000   1
 29095   0.42596     -0.33565      GAST2A   K+5   34911  EMERYGT218.000   1
 29118    2.8995      -8.5685      GAST2A   K+5    7998  WTV-GEN 22.000   1


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     LINE SWITCHING EVENTS FOLLOW:
+    _____________________________


     MHEB DC REDUCTIONS FOLLOW:
+    __________________________


     NETWORK NOT CONVERGED FOLLOW:
+    _____________________________


     RELOUV AND RELOUF SWITCHING EVENTS FOLLOW:
+    __________________________________________
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     DC SWITCHING EVENTS FOLLOW:
+    __________________________


     VSCAN EVENTS FOLLOW:
+    ____________________

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     PI 4 KV EVENTS FOLLOW:
+    ______________________


     RELAY SCAN EVENTS FOLLOW:
+    _________________________


     FARGO/WATERTOWN SVS EVENTS FOLLOW:
+    __________________________________


     UDHOLD EVENTS FOLLOW:
+    _____________________


     DYNAMIC VOLTAGE CHECKS FOLLOW:
+    ______________________________

         FROM TIME      0.4000 TO TIME      5.0000

                          PU VOLT                                    VMAX
+                        _________
 CHAN                     MAX   MIN       MINIMUM        MAXIMUM     LESS
+                                          __________     __________
  NO.    DESCRIPTION      .LT.  .GT.     VOLT  TIME     VOLT  TIME    VMIN
+____   _____________   __________      ____  ____     ____  ____    ____
 ----   -------------   ----------      ----  ----     ----  ----    ----
+<<<<   <<<<<<<<<<<<<   <<<<<<<<<<      <<<<  <<<<     <<<<  <<<<    <<<<
  444   67503 DORSEY    1.25  0.70      1.04  1.09     1.05  2.29    0.01
  386   61624 FORBES    1.15  0.82      0.99  1.17     1.00  3.82    0.01
  384   61615 ARROWHD   1.15  0.82      1.02  1.09     1.03  2.42    0.01
  382   61612 RIVERTN   1.15  0.75      0.98  1.19     0.99  2.39    0.01
  362   66752 DRAYTON   1.20  0.80      1.02  1.12     1.03  2.32    0.01
  562   63229 WAHPETN   1.18  0.80      1.01  1.17     1.01  3.39    0.00
  350   67104 TIOGA4    1.15  0.80      1.03  1.22     1.04  2.34    0.01
  392   63030 DICKNSN   1.17  0.70      1.02  0.42     1.03  2.27    0.01
  390   63041 COAL CR   1.18  0.70      1.03  0.42     1.04  2.17    0.01
  334   66529 WATERTN   1.18  0.75      1.02  0.52     1.03  2.39    0.01
  360   67160 GROTON    1.15  0.70      1.01  0.89     1.02  2.34    0.01
  553   61754 BOISE     1.15  0.82      1.00  1.22     1.02  2.27    0.02


     POWERFLOW WARNINGS AT END OF SIMULATION FOLLOW:
+    ___________________________________________________

BUSES WITH VOLTAGE GREATER THAN 1.1000:
X------ BUS -----X AREA V(PU)  V(KV)    X------ BUS -----X AREA V(PU)  V(KV)
67556 WHTSL1 4 220 667 1.1041 242.90    67589 WHTSL2 4 220 667 1.1040 242.89
67770 SK1 SUB7 110 667 1.1461 126.07    67771 STAR LK7 110 667 1.1448 125.93

BUSES WITH VOLTAGE LESS THAN 0.9500:
X------ BUS -----X AREA V(PU)  V(KV)    X------ BUS -----X AREA V(PU)  V(KV)
60149 MINVALT4 230 600 0.9467 217.74    60150 MNVLTAP4 230 600 0.9468 217.76
60156 PYNSVIL7 115 600 0.9490 109.14    60189 BLK DOG4 230 600 0.9231 212.30
60898 GLENCOE  115 600 0.8876 102.07    62001 BENSON 7 115 626 0.9442 108.59
62005 KERKHOT7 115 600 0.9319 107.17    62006 KERKHO 7 115 626 0.9379 107.86
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62425 WILLMAR7 115 618 0.8967 103.12    62980 MCLEOD 4 230 618 0.8912 204.97
62981 MCLEOD 7 115 618 0.8940 102.82    62982 HTCHMN 7 115 618 0.8966 103.11
62983 HUTCH3M7 115 618 0.8961 103.05    63050 WILLMAR4 230 618 0.9346 214.95
63054 PANTHER4 230 600 0.9030 207.69    66789 BEMIDJIT 115 626 0.9328 107.28
69515 HLSBORO5 161 680 0.9310 149.89

 BRANCH CURRENT LOADINGS ABOVE 100.0 % OF RATING SET A
+        _______
X-------FROM BUS-------X  X--------TO BUS--------X       CURRENT(MVA)
  BUS    NAME  BSKV AREA    BUS    NAME  BSKV AREA CKT LOADING  RATING PERCENT
60107  W FARIB7 115  600  60265* LOON TP7 115  600  1    253.8   119.0   213.3
60108  WILMART3 345  600  60331* LKFLDXL3 345  600  1    858.5   574.0   149.6
60150  MNVLTAP4 230  600  63054* PANTHER4 230  600  1    420.3   388.0   108.3
60150* MNVLTAP4 230  600  66550  GRANITF4 230  652  1    436.0   318.0   137.1
60156  PYNSVIL7 115  600  62425* WILLMAR7 115  618  1    140.7    77.0   182.7
60197* CHIS CO2 500  600  60198  CHIS-N 2 500  600  1   1947.6  1732.0   112.4
60286* NOBLES 3 345  600  60287  NOBLES 7 115  600  1    471.5   448.0   105.2
60357* MAYNARD7 115  600  62005  KERKHOT7 115  600  1     78.9    78.0   101.1
62005* KERKHOT7 115  600  62425  WILLMAR7 115  618  1    111.6    77.0   144.9
62234  LKMARN 7 115  600  62865* AIRTECH7 115  600  1    154.2   139.0   110.9
62980  MCLEOD 4 230  618  63054* PANTHER4 230  600  1    365.9   319.0   114.7
63801* CBLUFFS5 161  635  63817  BUNGE 5  161  635  1    193.8   192.0   100.9
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63908  SAC    5 161  635  64244* SAC GEN  161  635  1    139.2   136.0   102.3
64203  NW FTDG5 161  635  64230* POMEROY5 161  635  1    175.9   136.0   129.4
64239* FRANKLN5 161  635  64285  BUTLER 5 161  635  1    234.6   181.0   129.6
    *** BRANCH OVERCURRENT SEARCH TERMINATED AT 15 RECORDS ***

 TRANSFORMER MVA LOADINGS ABOVE 100.0 % OF RATING SET A
+           ___
X-------FROM BUS-------X  X--------TO BUS--------X       MVA      MVA
  BUS    NAME  BSKV AREA    BUS    NAME  BSKV AREA CKT LOADING  RATING PERCENT
60286* NOBLES 3 345  600  60287  NOBLES 7 115  600  1    484.9   448.0   108.2

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          FAST SWITCH CAPACITOR PERFORMANCE:

     BUSNUM  BUS NAME    # CAPS   SIZE    SSON    FINAL   AVAIL
      63056  BALTAJCT       3      60       0       0       3
      60305  EAU CLA5       4      89       4       4       0
      60234  PARKERS7       3      80       3       3       0
      60116  PRASWCP7      12      40       1       1      11
      63047  RAMSEY 4       2      30       0       0       2
      60168  ROSSWCP4       2      30       0       0       2
      60167  RUNSWCP4       6      30       1       1       5
      60172  SHYSWCP7       5      40       1       1       4
      60129  SPLT RK7       2      80       1       2       0


--------------------------------------------------------------------------------
          INITIAL **NORMAL** RELAY MARGINS/IMPEDENCES (ZRE/ZIM):     VIOLATION *

     B10T : RELAY MARGIN AT TIOGA IS            :    338 %   -0.6430    0.1094 N
     G82R : RELAY MARGIN AT RUGBY IS            :    999 %    1.9205   -1.2216 N
     L20D : RELAY MARGIN AT DRAYTON IS          :    999 %   -0.5325    0.0632 N
     R50M : RELAY MARGIN AT MORANVILLE IS       :    879 %   -0.7104    0.0617 N
     F3M  : RELAY MARGIN AT INT.FALLS IS        :    315 %   -0.6375    0.1464 N
     D602F: RELAY MARGIN AT FORBES IS           :    206 %   -0.0482    0.0194 N
     D602F: RELAY MARGIN AT DORSEY IS           :    325 %    0.0538    0.0136 N
     D602F: RELAY MARGIN AT FORBES (DCAR) IS    :    507 %    0.0000    0.0000 N
--------------------------------------------------------------------------------
          MINIMUM TRANSIENT RELAY MARGINS: START TIME:  0.27500 SEC, VIOLATION *

     B10T : RELAY MARGIN AT TIOGA IS            :    288 %  AT TIME=   1.33328 N
     G82R : RELAY MARGIN AT RUGBY IS            :    999 %  AT TIME=   0.00000 N
     L20D : RELAY MARGIN AT DRAYTON IS          :    999 %  AT TIME=   0.00000 N
     R50M : RELAY MARGIN AT MORANVILLE IS       :    827 %  AT TIME=   1.28328 N
     F3M  : RELAY MARGIN AT INT. FALLS IS       :    289 %  AT TIME=   1.33328 N
     D602F: RELAY MARGIN AT FORBES IS           :    187 %  AT TIME=   1.26662 N
     D602F: RELAY MARGIN AT DORSEY IS           :    293 %  AT TIME=   1.26662 N
     D602F: RELAY MARGIN AT FORBES (DCAR)       :    496 %  AT TIME=   0.73330 N
--------------------------------------------------------------------------------
          OH - MH TRANSIENT PERFORMANCE:
```

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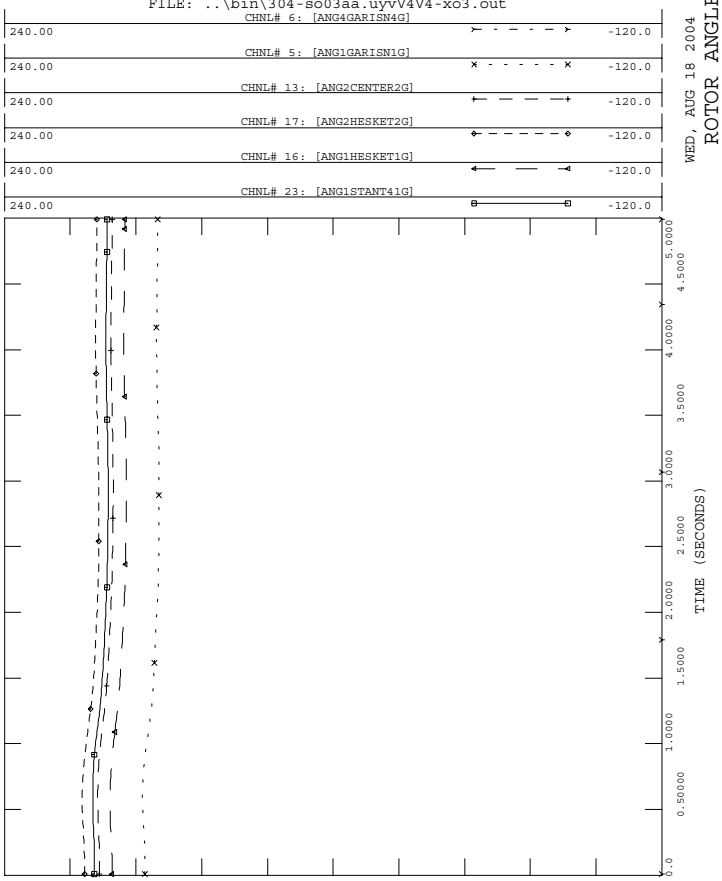
     OH-MH: INITIAL OH-MH POWER, KENORA ANGLE   :  -197.3 MW        91.7 DEG
     OH-MH: MAX +  MW CHANGE @TIME, DLT ANGLE   :    10.5 MW  @  2.71655,   -6.8
     OH-MH: MAX -  MW CHANGE @TIME, DLT ANGLE   :     0.9 MW  @  0.56664,    0.3
     OH-MH: MAX ANGLE CHANGE @TIME, DLT POWER   :    -6.9 DEG @  2.58323,   10.2
-------------------------------------------------------------------------------
          RELAY MARGINS/IMPEDANCES (ZRE,ZIM)/FLOWS AT TIME=   5.00815

     B10T : RELAY MARGIN AT TIOGA IS            :    317 %   -0.6175    0.1040
     G82R : RELAY MARGIN AT RUGBY IS            :    999 %    2.0841   -1.5305
     L20D : RELAY MARGIN AT DRAYTON IS          :    999 %   -0.5120    0.0631
     R50M : RELAY MARGIN AT MORANVILLE IS       :    871 %   -0.7059    0.0593
     F3M  : RELAY MARGIN AT INT. FALLS IS       :    307 %   -0.6267    0.1375
     D602F: RELAY MARGIN AT FORBES IS           :    201 %   -0.0476    0.0195
     D602F: RELAY MARGIN AT DORSEY IS           :    318 %    0.0532    0.0136
     D602F: RELAY MARGIN AT FORBES (DCAR) IS    :    604 %    0.2275    1.6265
                         ---------------
     B10T : BOUNDARY DAM PHASE SHIFT FLOW       :   173.9 MVA ( SOUTH )
     F3M  : INTERNATIONAL FALLS PH. SHIFT FLOW  :   156.4 MVA ( SOUTH )
     MH-OH: FINAL OH-MH POWER, KENORA ANGLE     :  -195.0 MW        85.9 DEG
     EWTW : FINAL OH EAST-WEST TIES FLOW        :  -199.1 MW
-------------------------------------------------------------------------------
          USING **NORMAL** RELAYS SETTINGS AS FOLLOWS:

 B10T@TIOGA  : R1= 0.030 X1= 0.348 R2=-0.030 X2=-0.348 P1/2/3=0.223 0.283 0.350
 G82R@RUGBY  : A=  81.9 IN1= 0.250 IN2= 0.100 B=  81.9 IN3= -0.200 IN4= -0.350
 L20D@DRAYTON: A=  80.0 IN1= 0.175 IN2= 0.135 B=  80.0 IN3= -0.095 IN4= -0.136
 R50M@MORANVL: A=  76.3 IN1= 0.345 IN2= 0.245 B=  76.3 IN3= -0.198 IN4= -0.258
 F3M@INT.FALL: A=  76.3 IN1= 0.480 IN2= 0.300 B=  76.3 IN3= -0.200 IN4= -0.350
 D602F@DORSEY: A=  85.0 IN1= 0.041 IN2= 0.026 B=  85.0 IN3= -0.023 IN4= -0.036
 D602F@DORSEY: A=  85.0 IN1= 0.034 IN2= 0.026 B=  85.0 IN3= -0.024 IN4= -0.033
 D602F-DCAR  : ANGLE= 170.0 DCAO= -39.700 DCAI= -49.450
 K21W-DPDARE : XPs=  25.0 XPt= 150.0 XAt=   5.0 YPs=  25.0 YPt=  50.0 YAt=  20.0
 K22W-DPDARE : XPs=  25.0 XPt= 150.0 XAt=   5.0 YPs=  25.0 YPt=  50.0 YAt=  20.0
-------------------------------------------------------------------------------
```

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

WED, AUG 18 2004 13:31
ROTOR ANGLES 2



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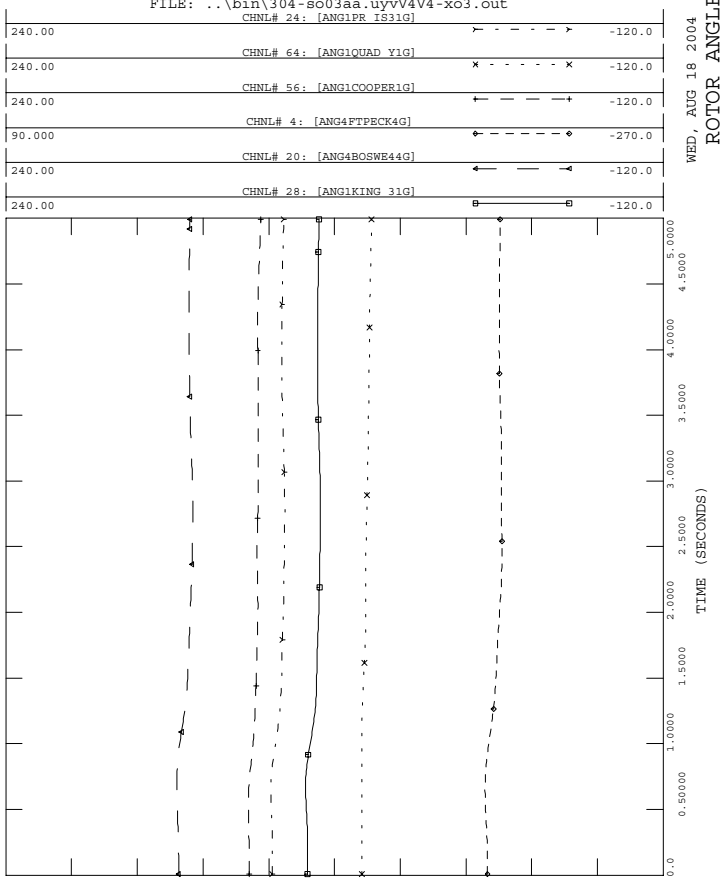

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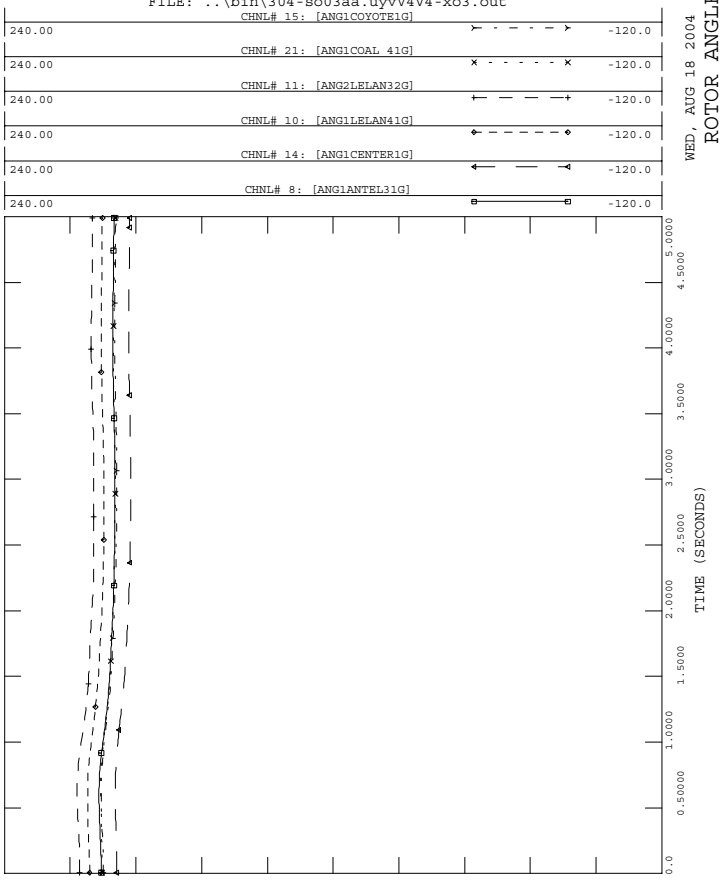

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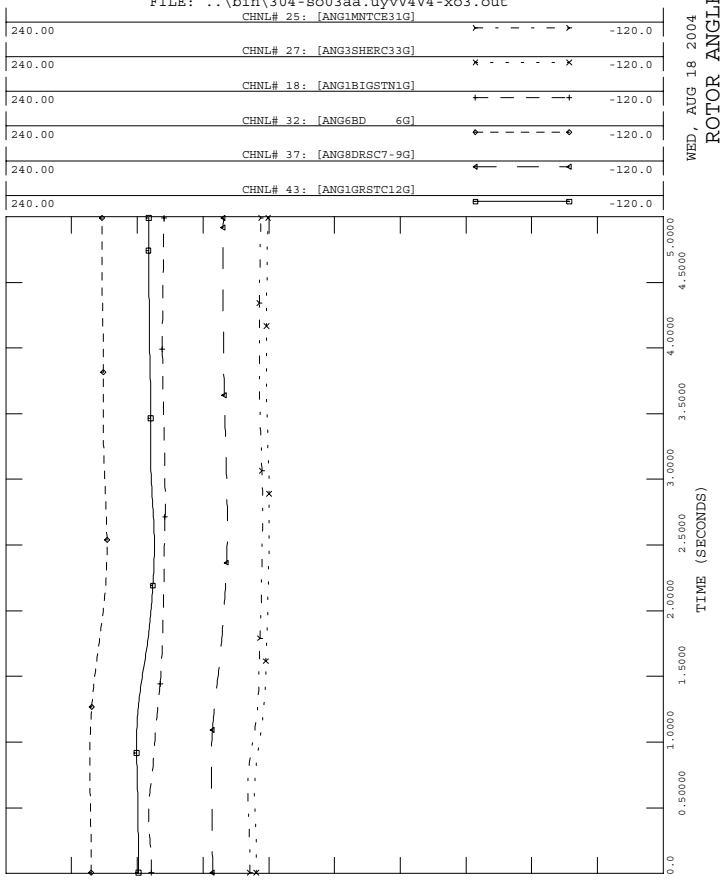
ROTOR ANGLES 3



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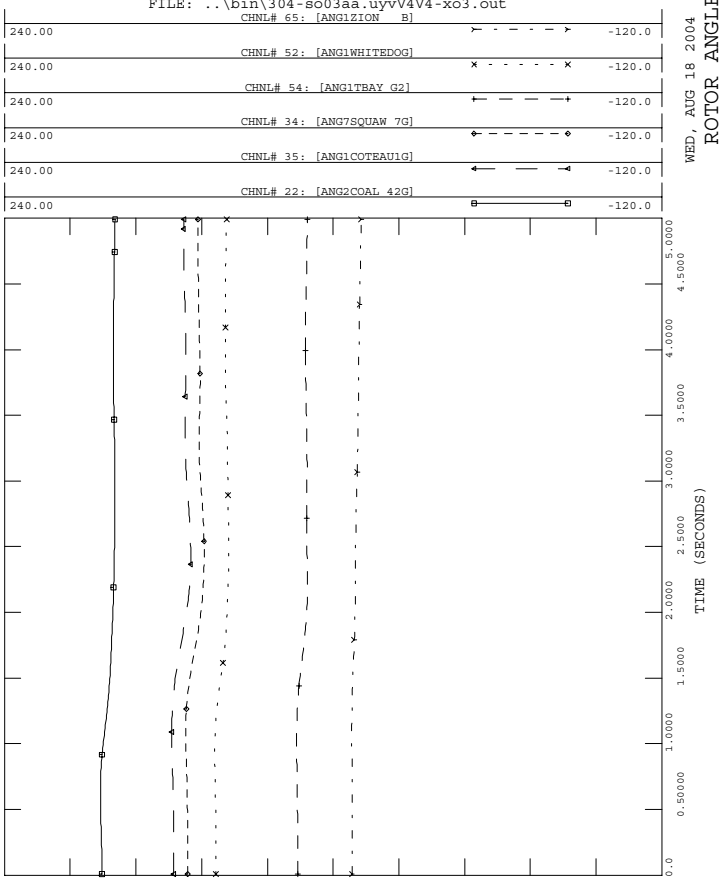
ROTOR ANGLES 6



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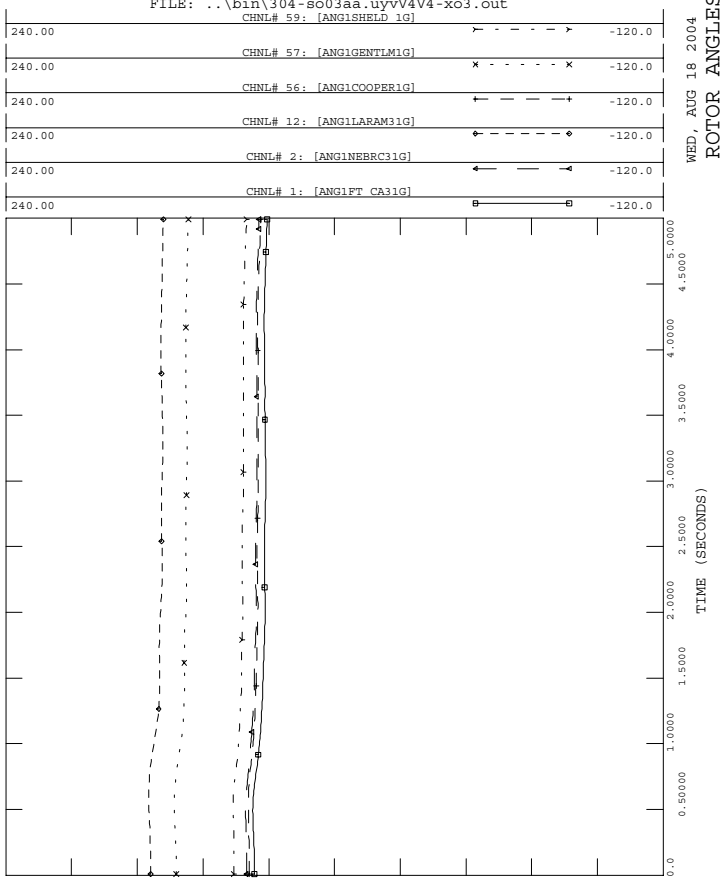
ROTOR ANGLES NB



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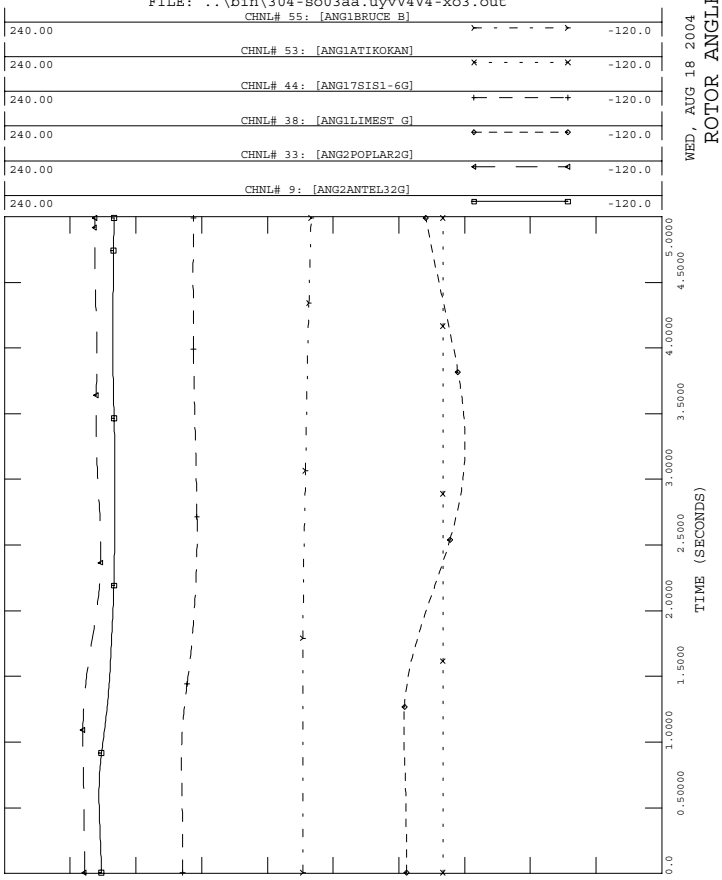

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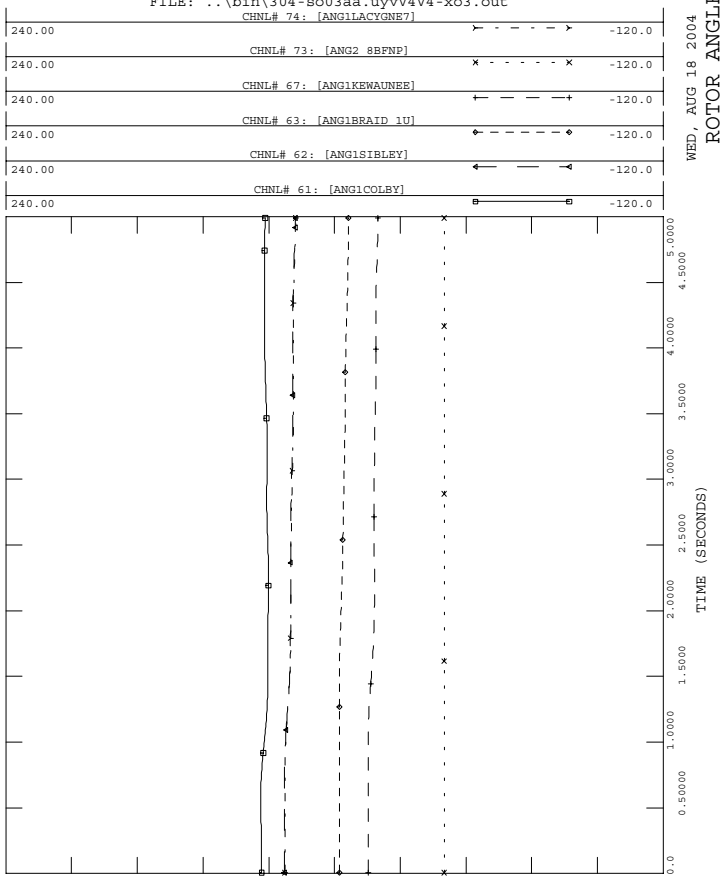
ROTOR ANGLES 7



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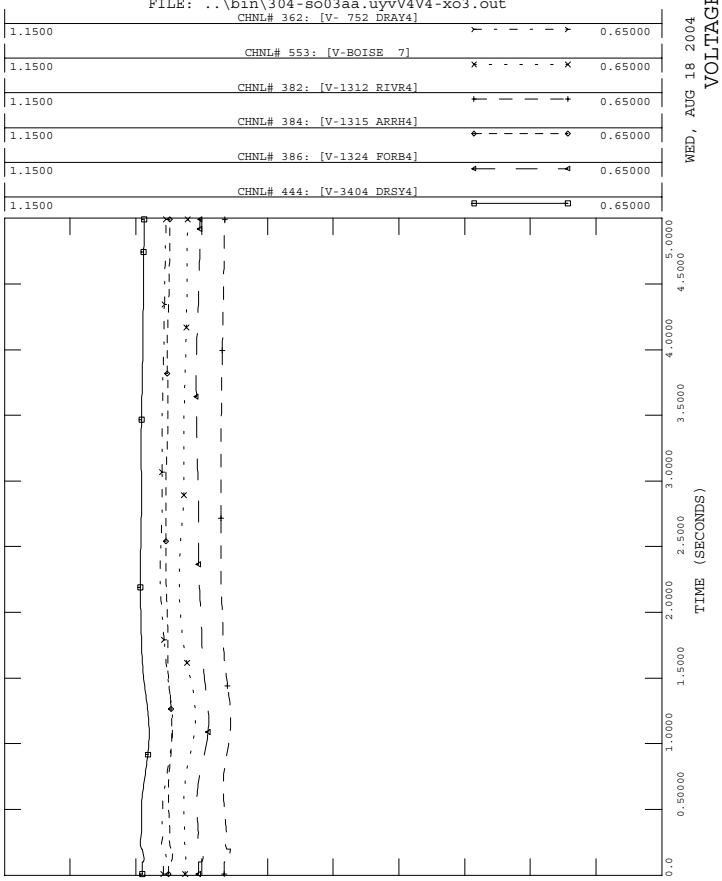
VOLTAGES 1



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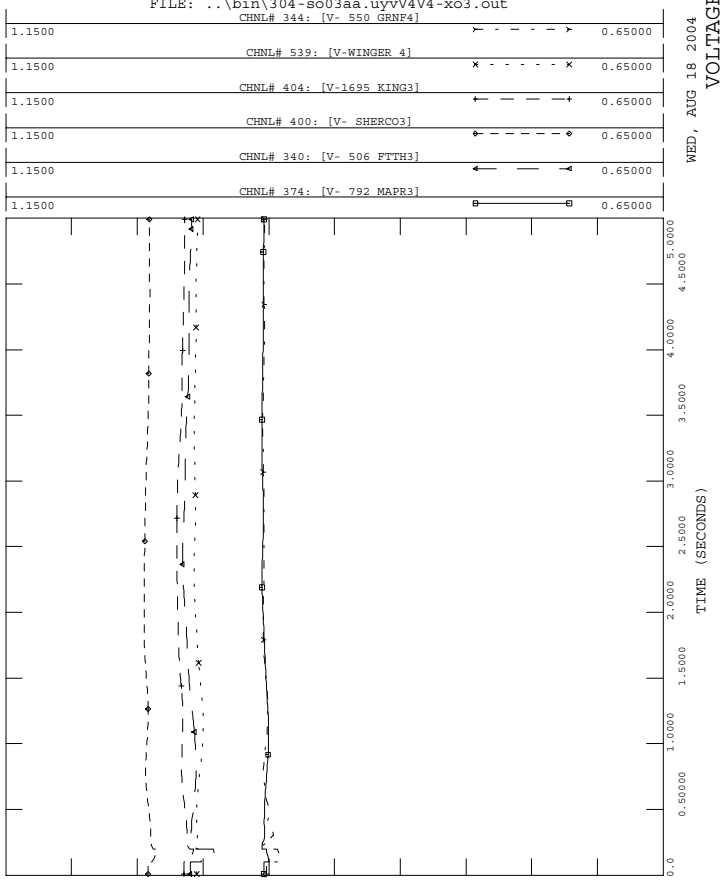
VOLTAGES 3



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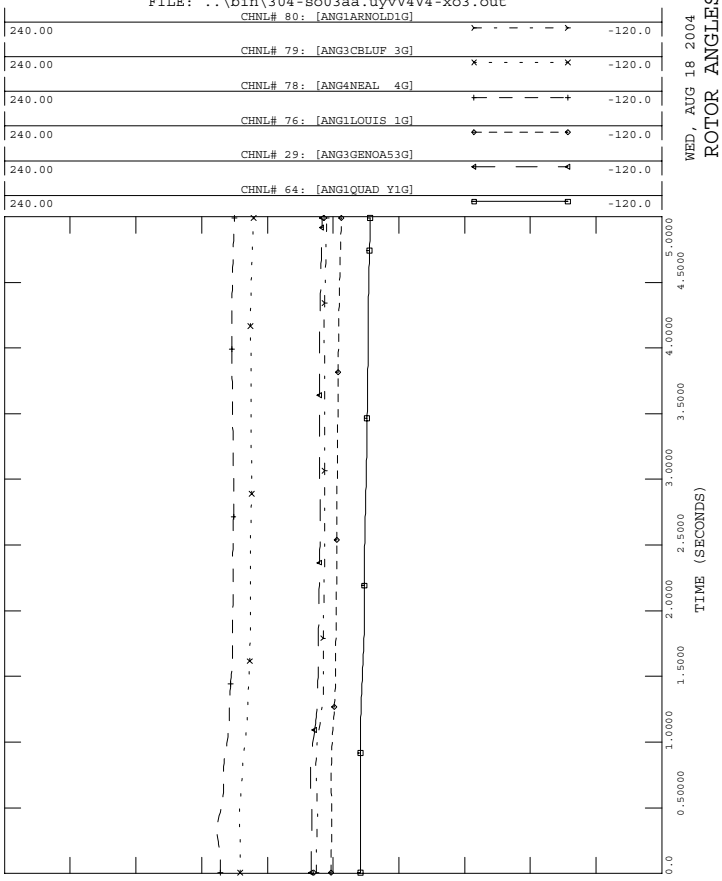

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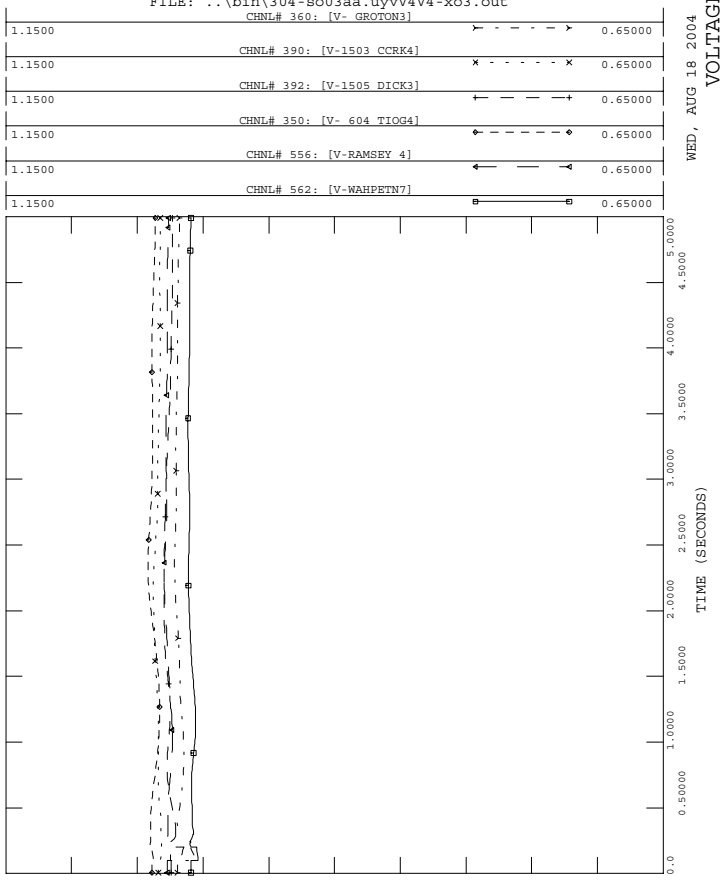
VOLTAGES 2



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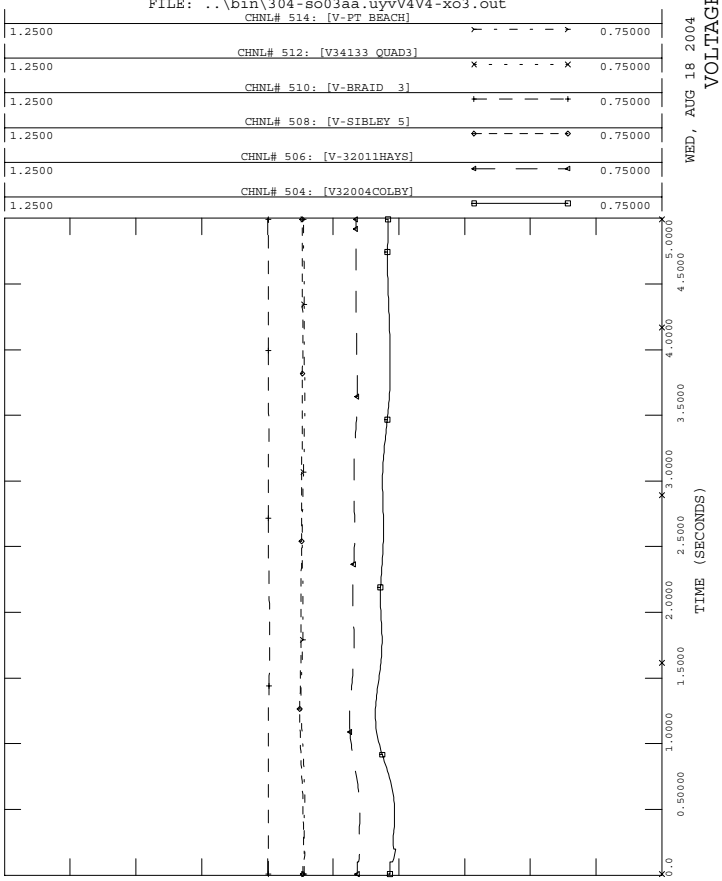
VOLTAGES 5



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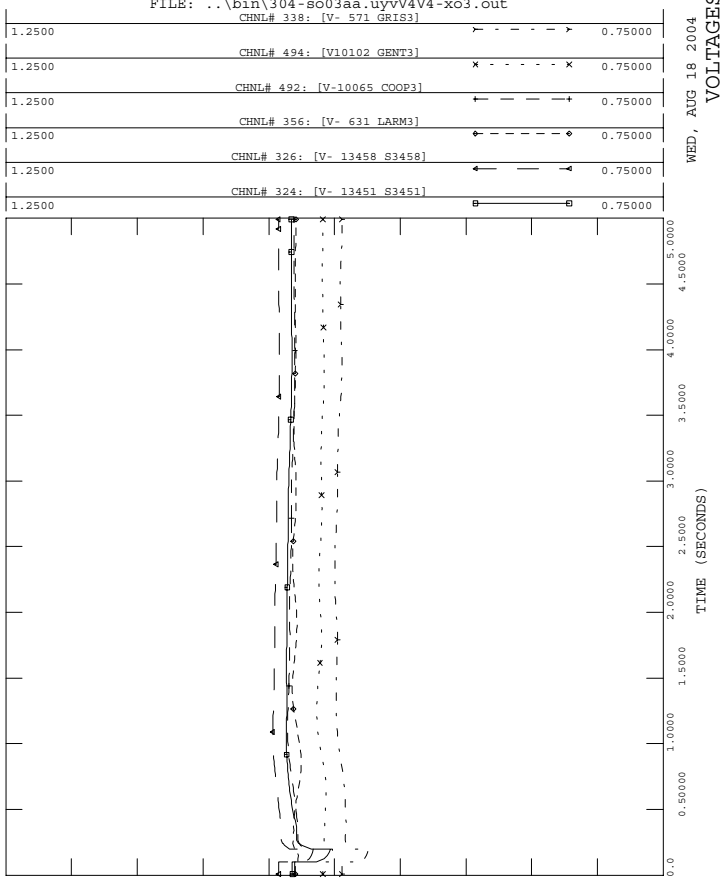
VOLTAGES NB



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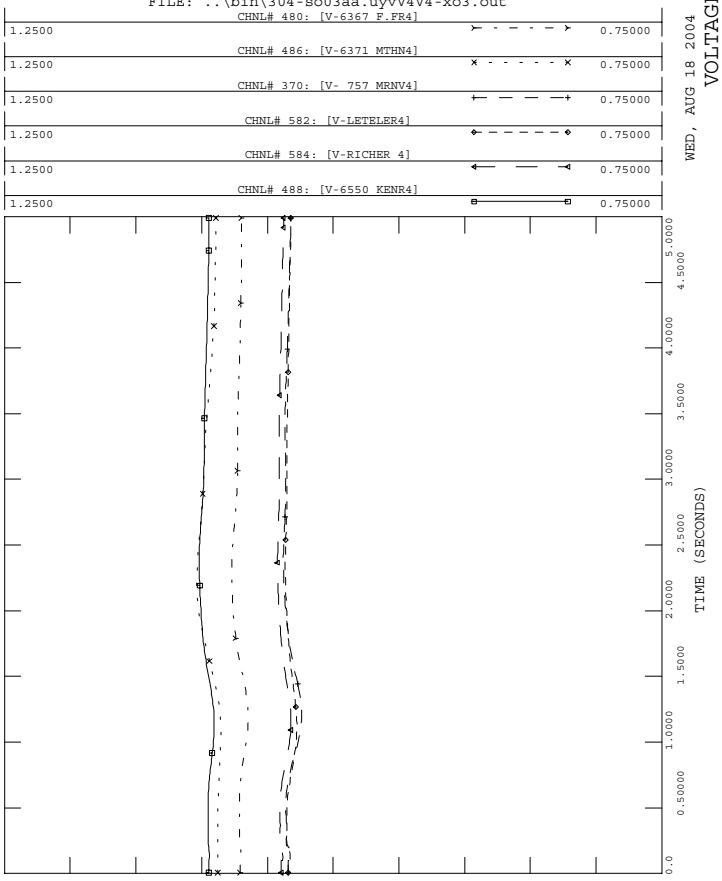

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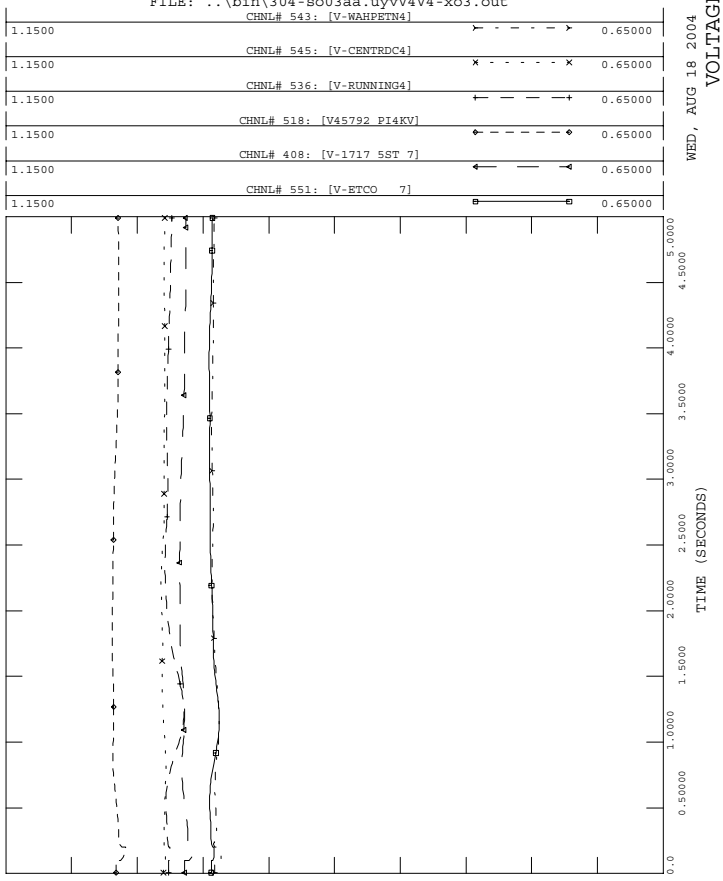
VOLTAGES 6



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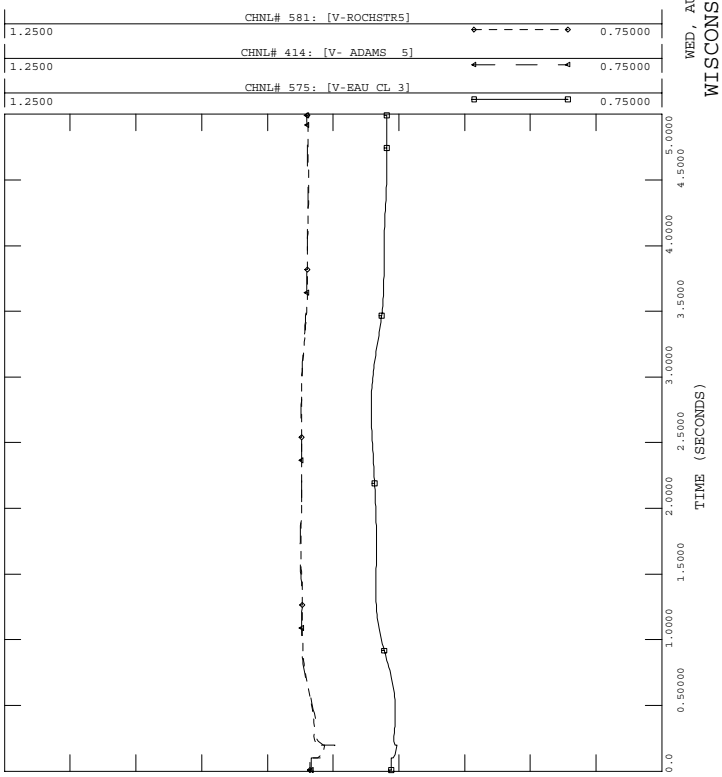
WISCONSIN VOLTAGES



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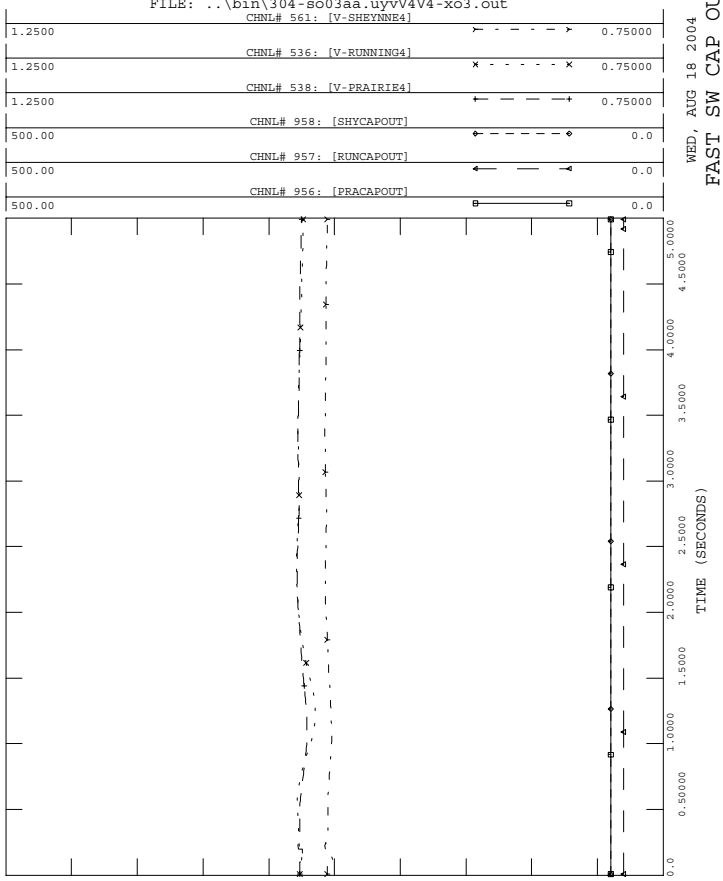
WED, AUG 18 2004 13:31
FAST SW CAP OUT 1



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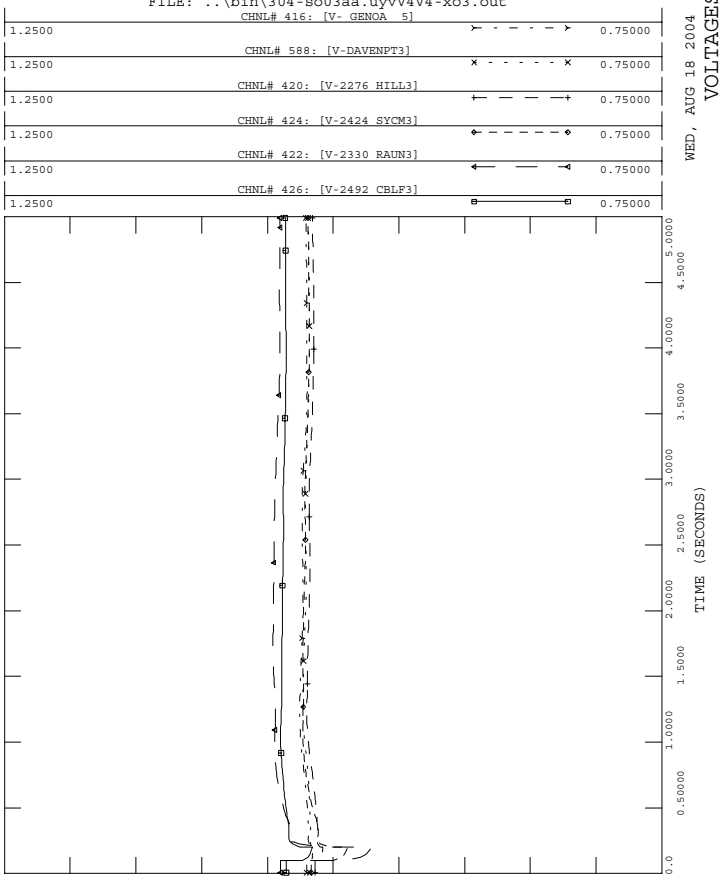
VOLTAGES IA



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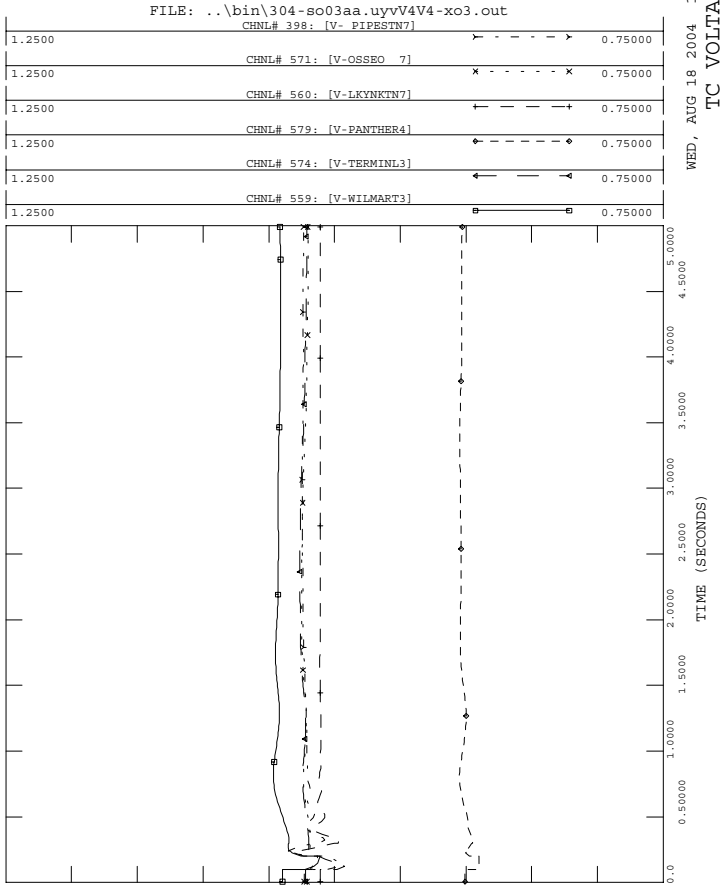
TC VOLTAGES



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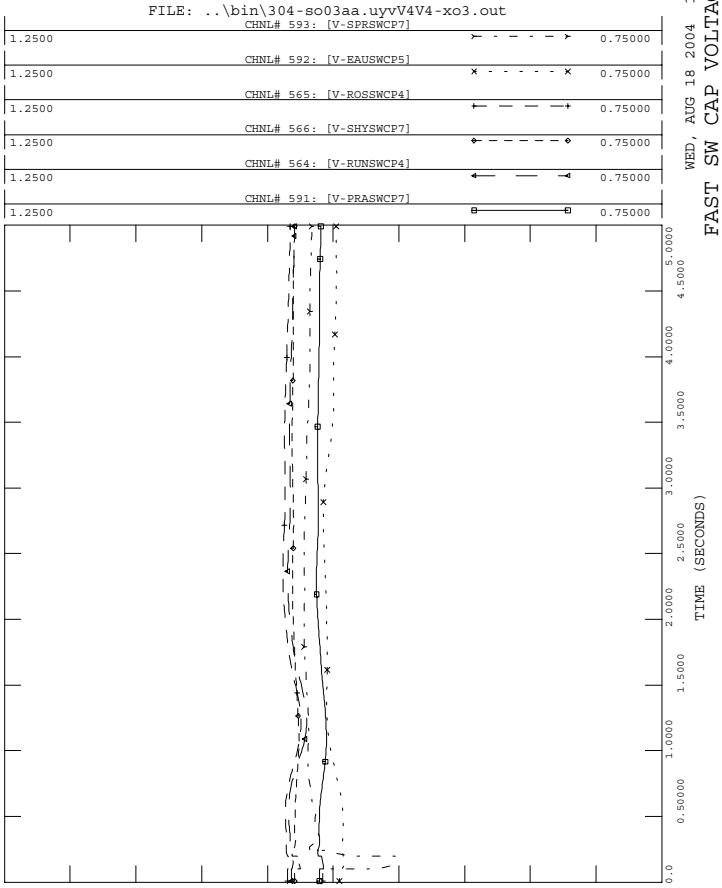
FAST SW CAP VOLTAGES



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CLEAR THE GI-0304 - SPENCER 161 KV LINE
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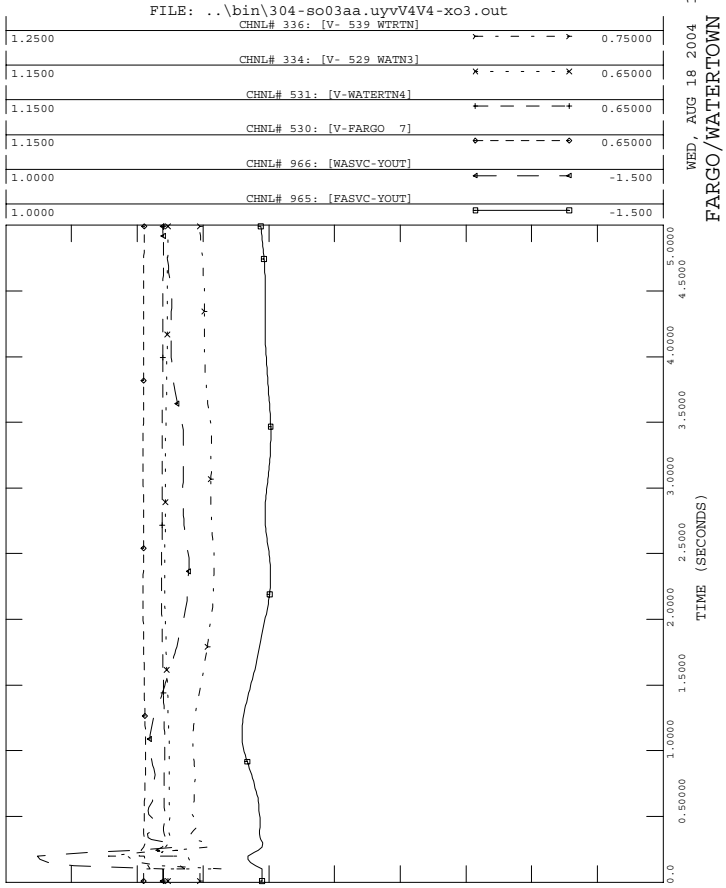
FARGO/WATERTOWN SVS



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CLEAR THE GI-0304 - SPENCER 161 KV LINE
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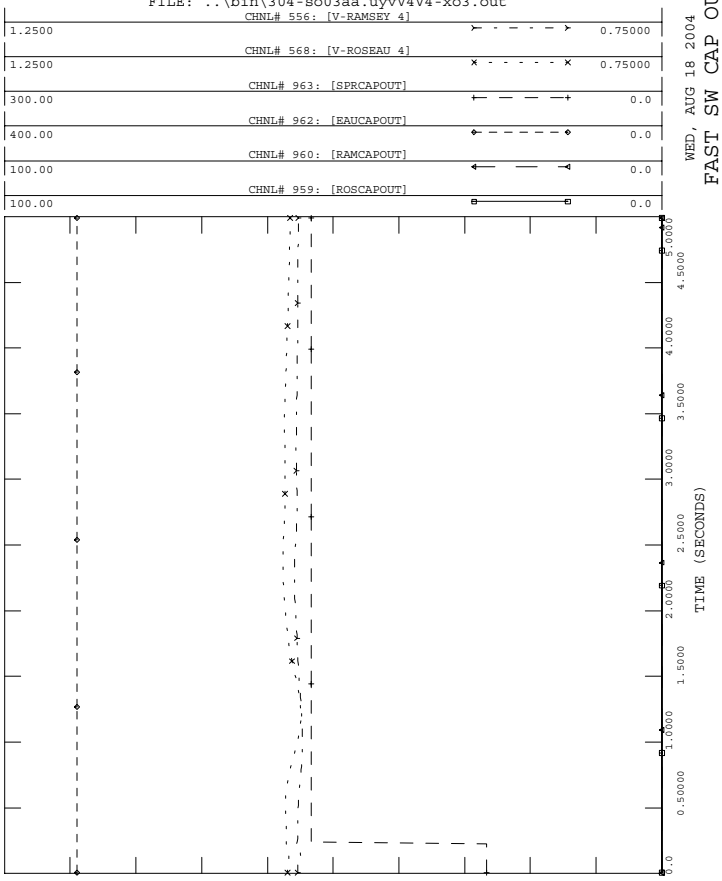
FAST SW CAP OUT 2



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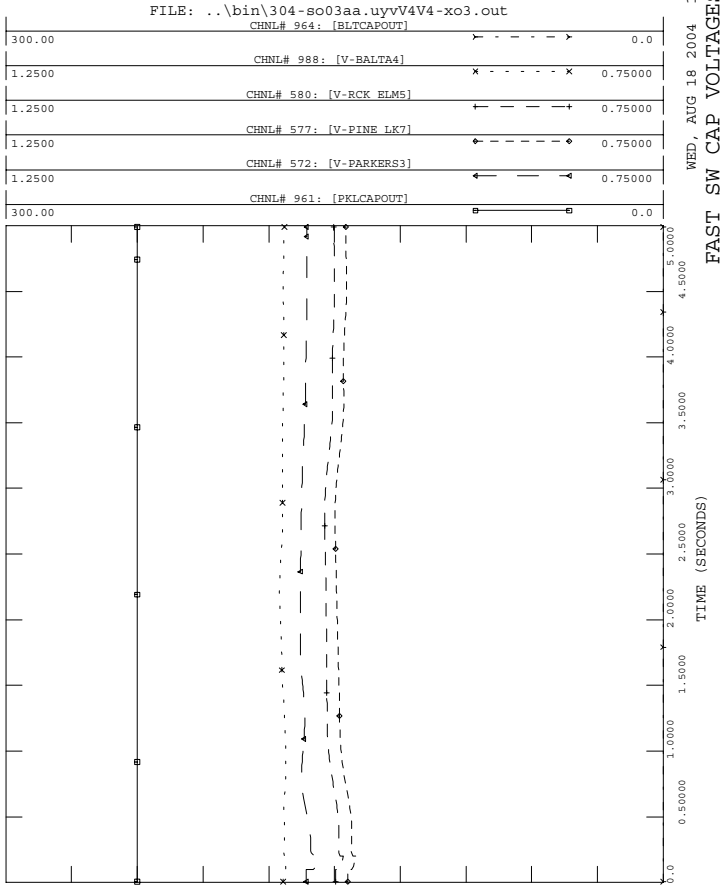
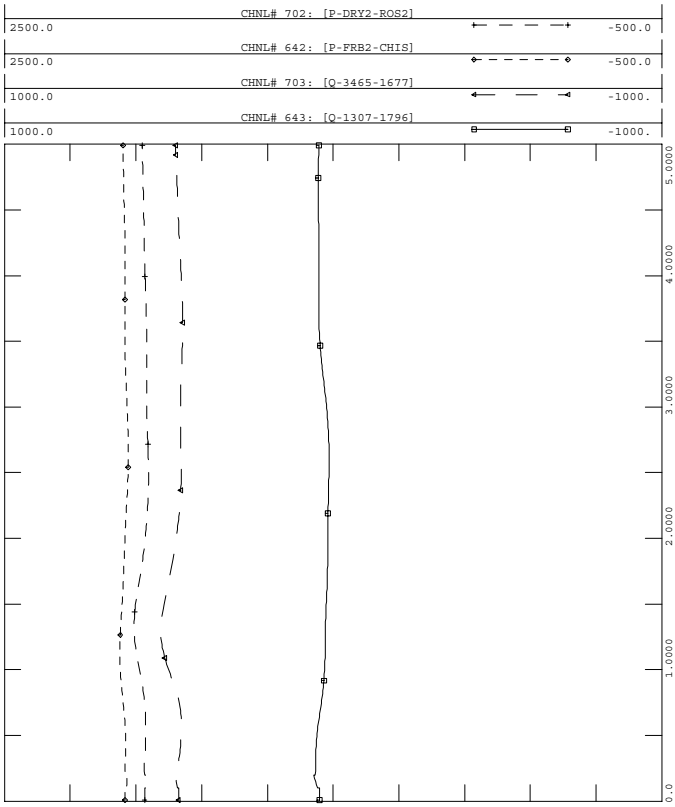
FAST SW CAP VOLTAGES 2



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

WED, AUG 18 2004 13:31
WTC 500 KV FLOWS



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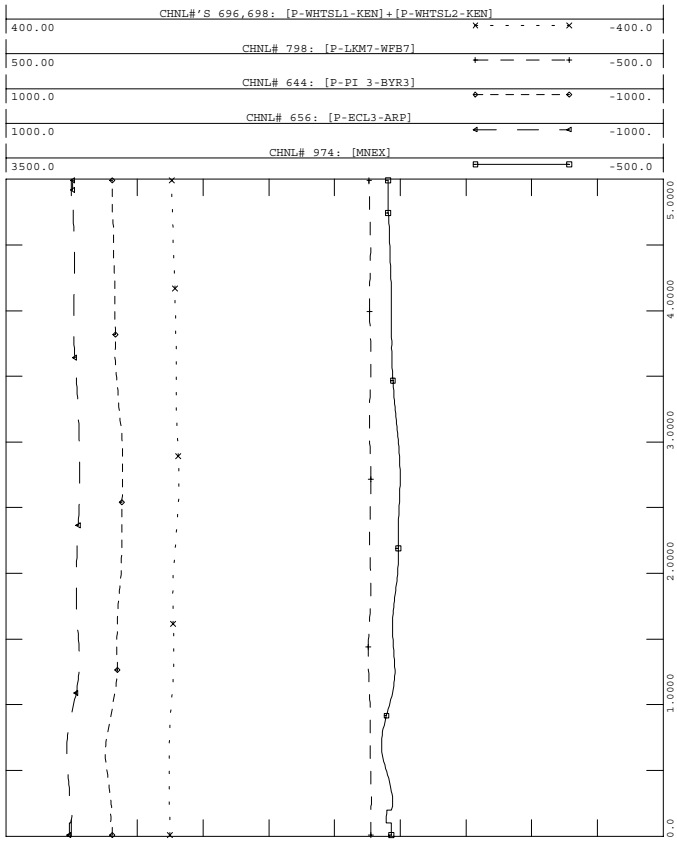
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

WED, AUG 18 2004 13:31
POWER FLOW SUMS 2



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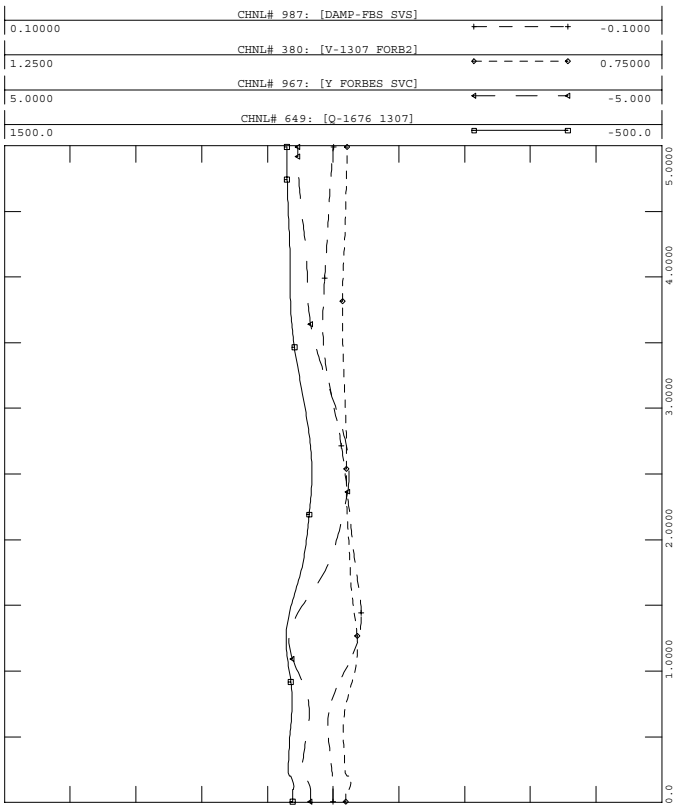
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

WED, AUG 18 2004 13:31
FORBES SVS



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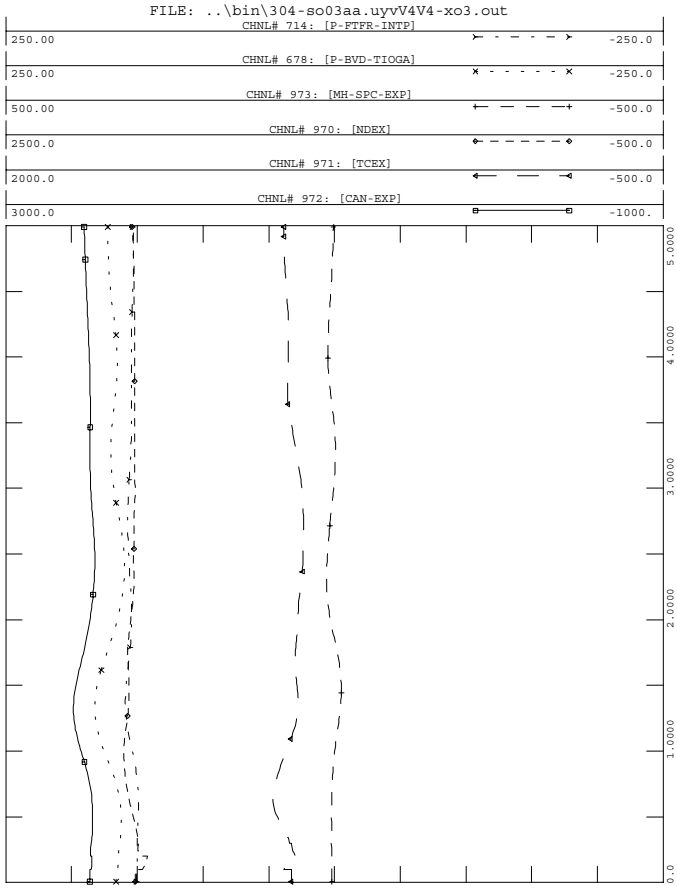
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

WED, AUG 18 2004 13:31
POWER FLOW SUMS 1



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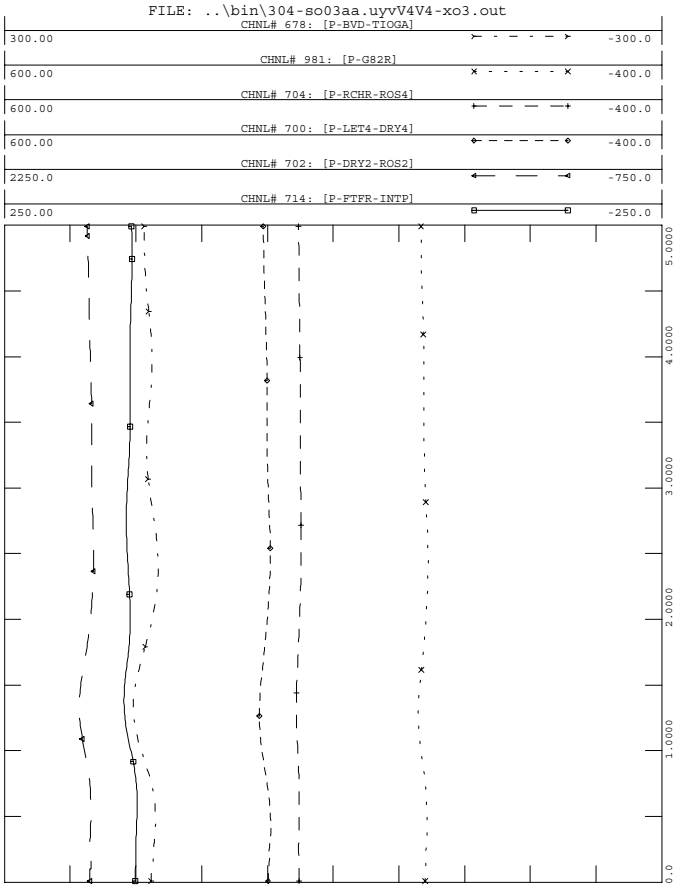
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

WED, AUG 18 2004 13:31
CAN. TIE FLOWS



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

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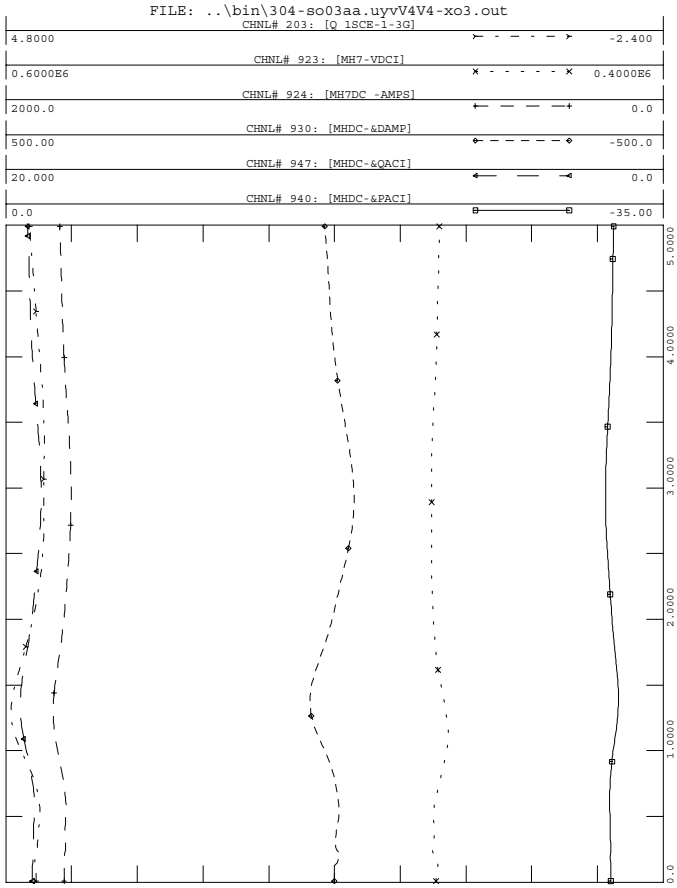
MH DC PARAMETERS



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
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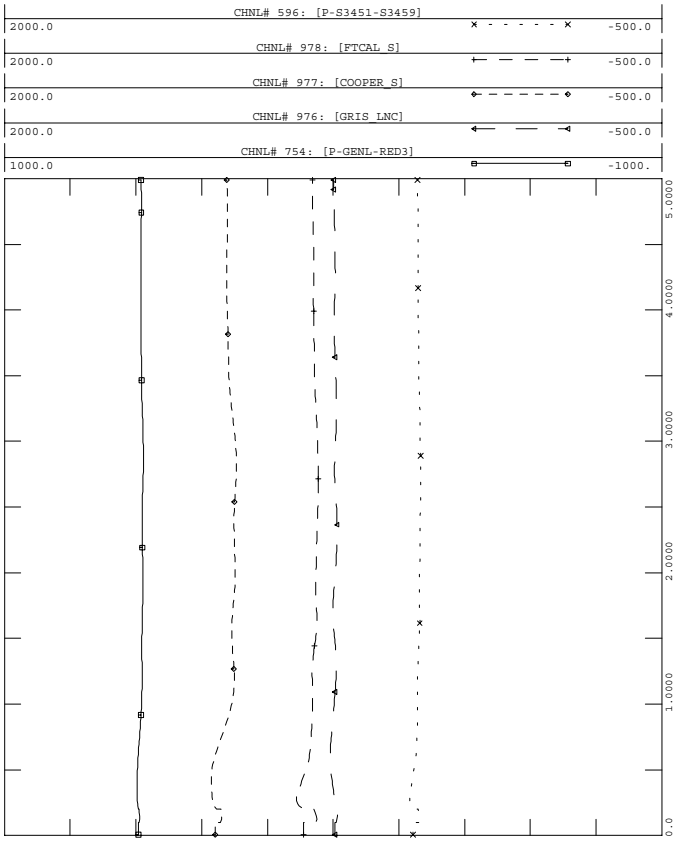
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

WED, AUG 18 2004 13:31
POWER FLOW SUM 3



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6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

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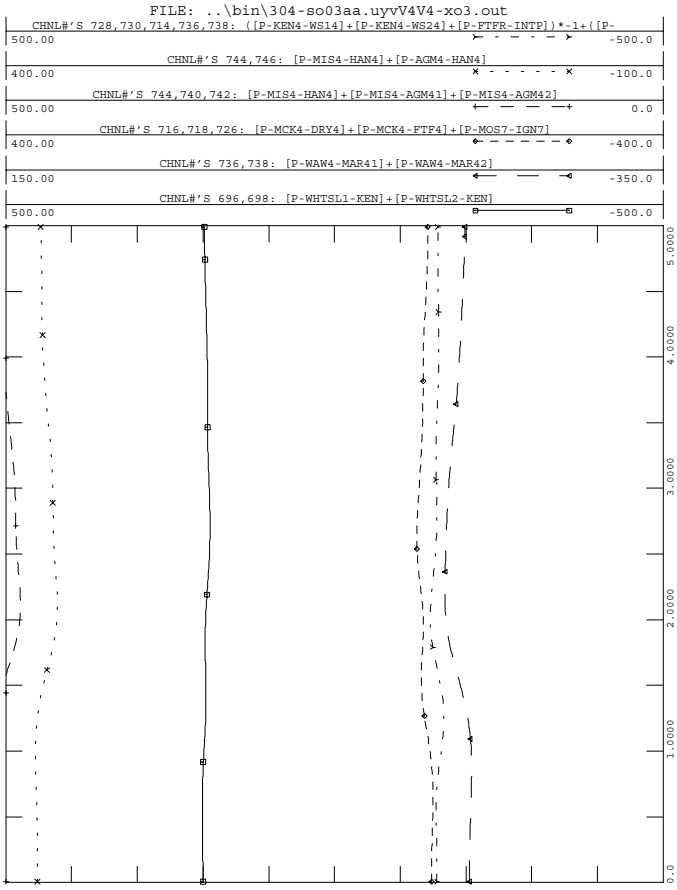
OH TIE FLOWS



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6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

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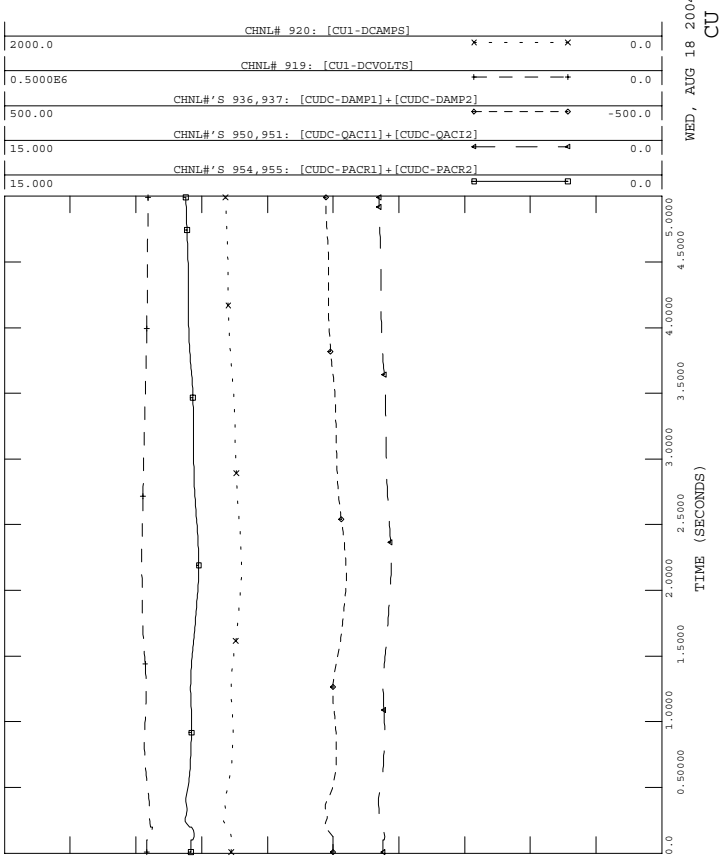
CU DC #1



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ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

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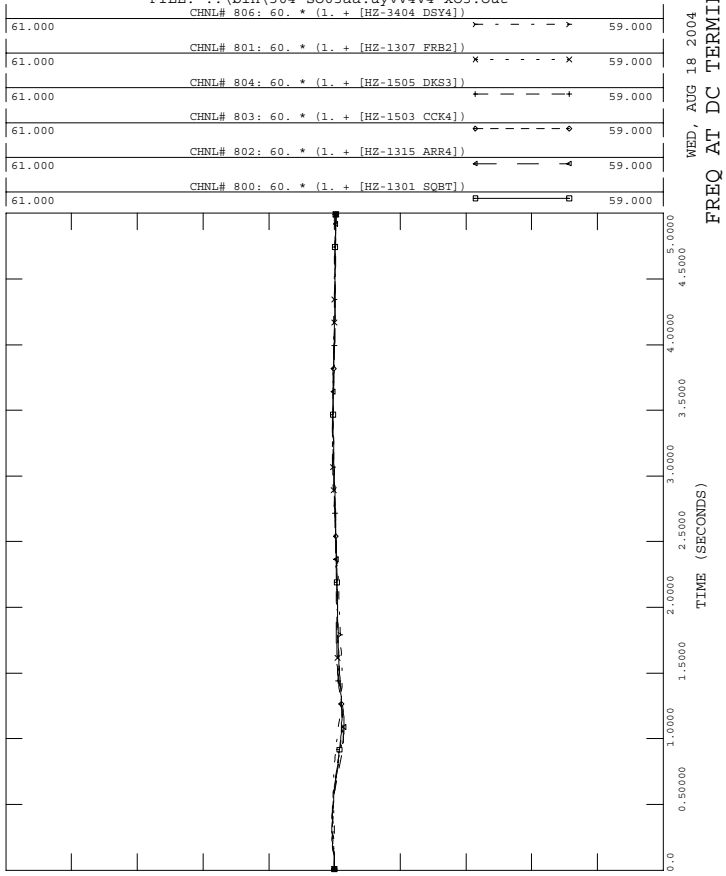
FREQ AT DC TERMINALS



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ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

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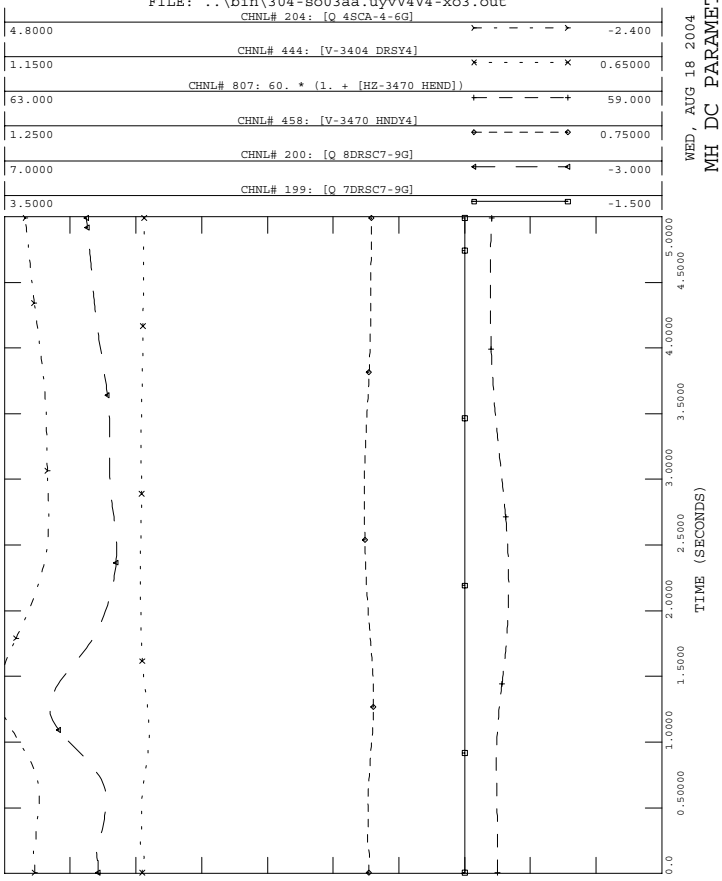
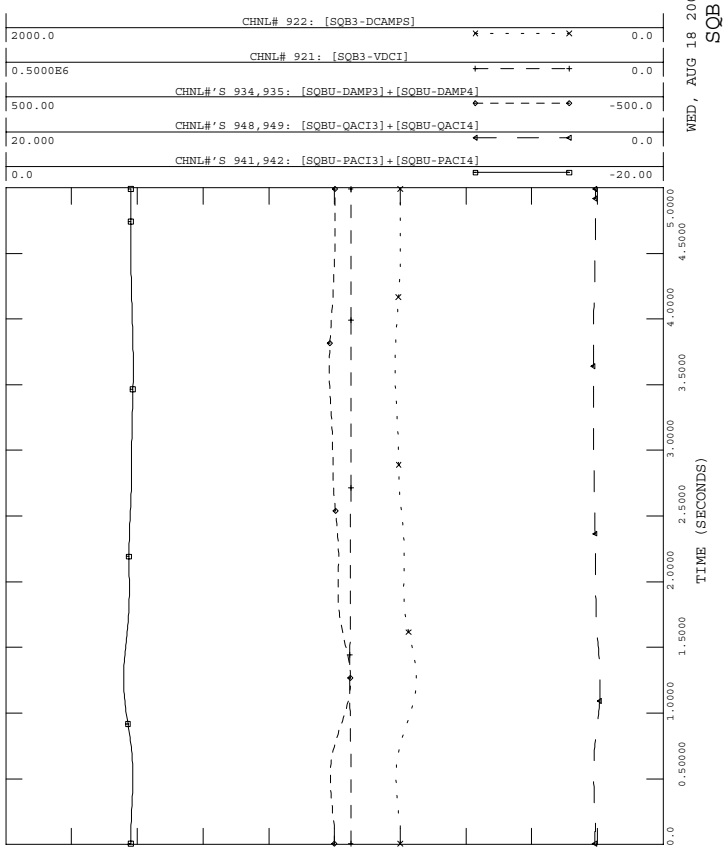
MH DC PARAMETERS



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

WED, AUG 18 2004 13:31

SQB DC #3



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
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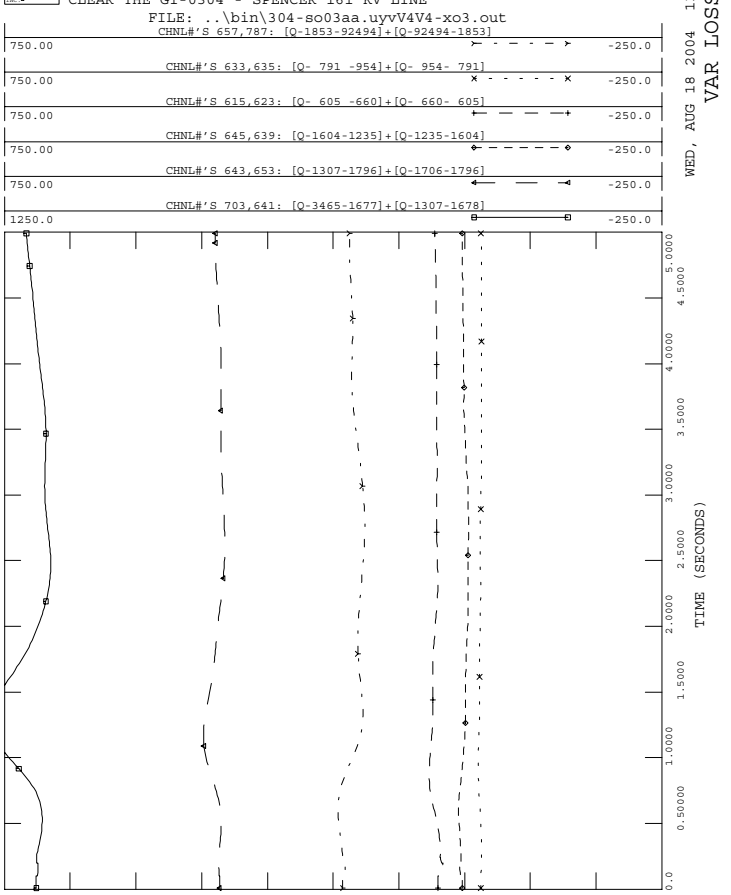
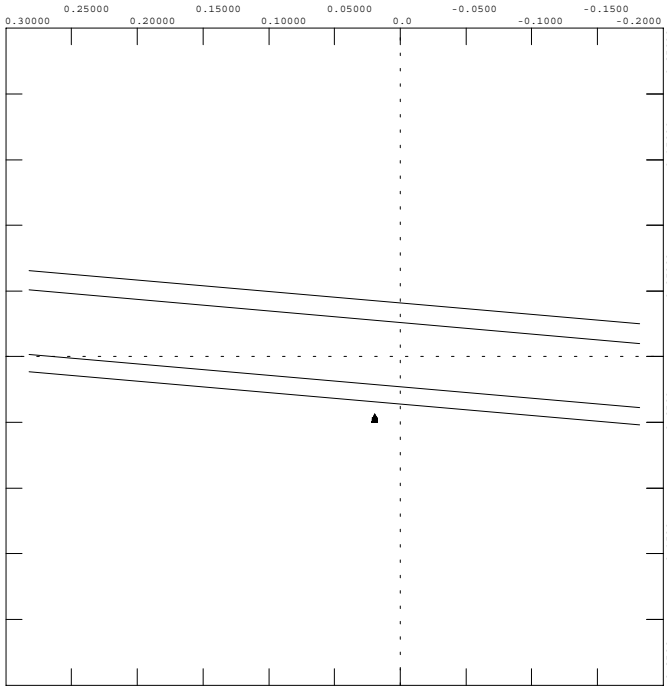
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out



WED, AUG 18 2004 13:31
VAR LOSSES

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out
RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 824: [X-FRB2-ROS2]



WED, AUG 18 2004 13:31
D602F-FORBES (612)

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
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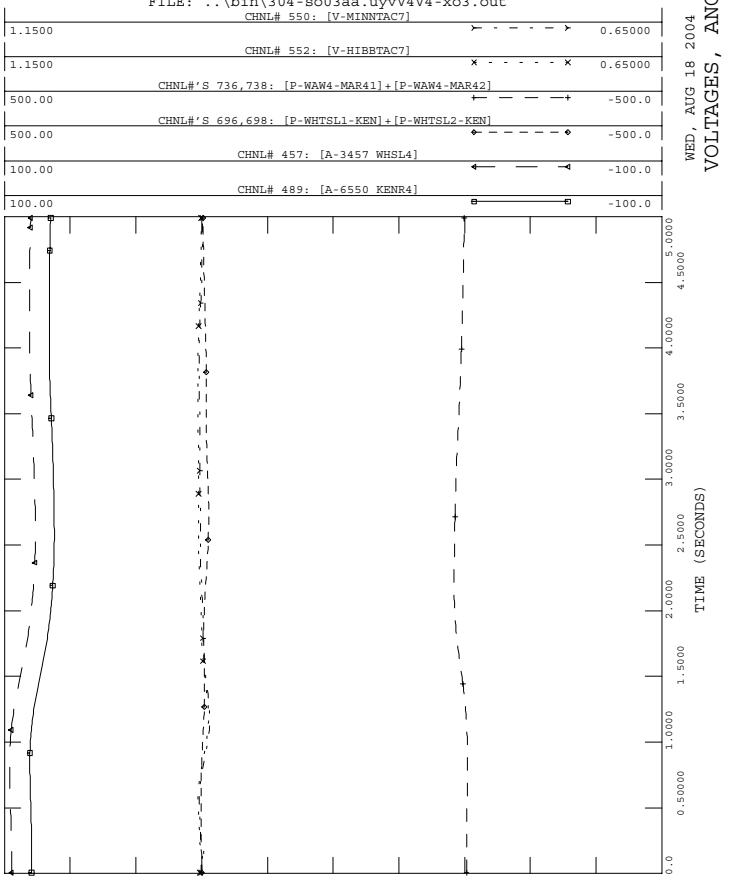
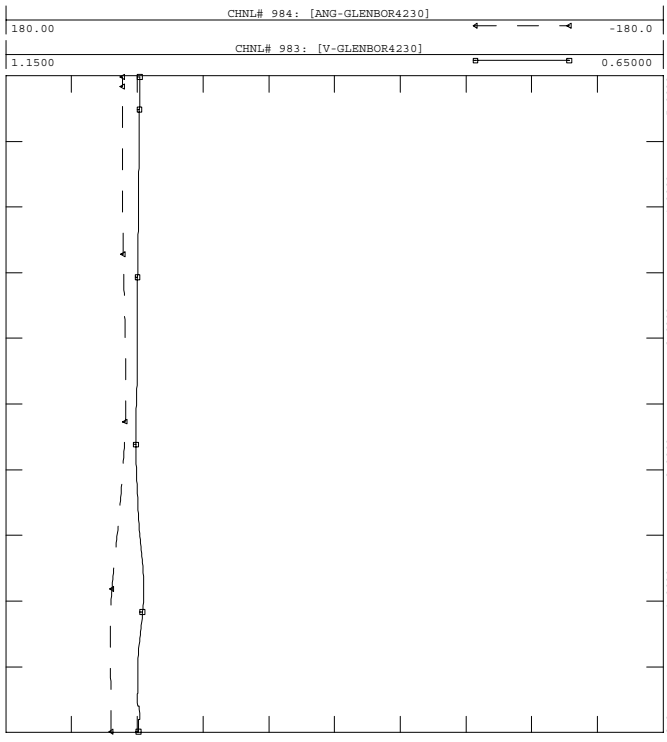
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out



WED, AUG 18 2004 13:31
VOLTAGES, ANGLES

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

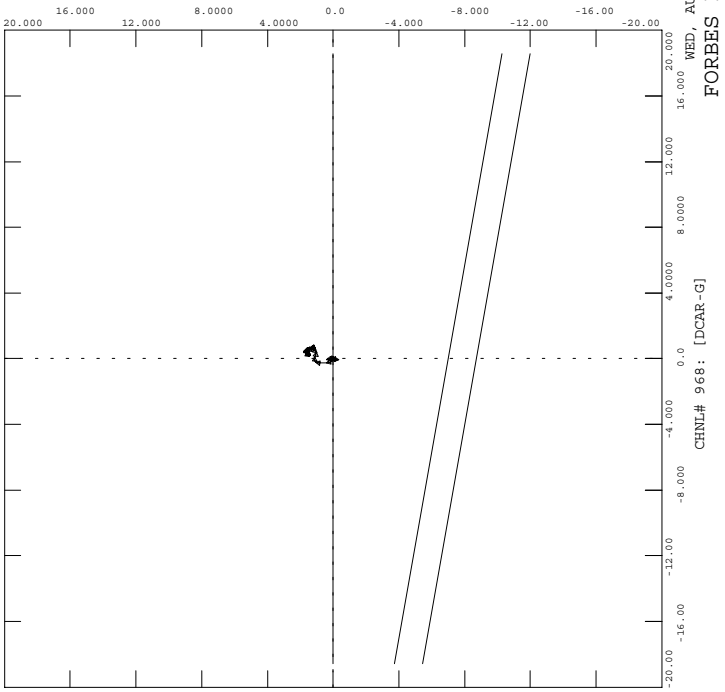


WED, AUG 18 2004 13:31
VOLTAGES, ANGLES

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 969: [DCAR-B]

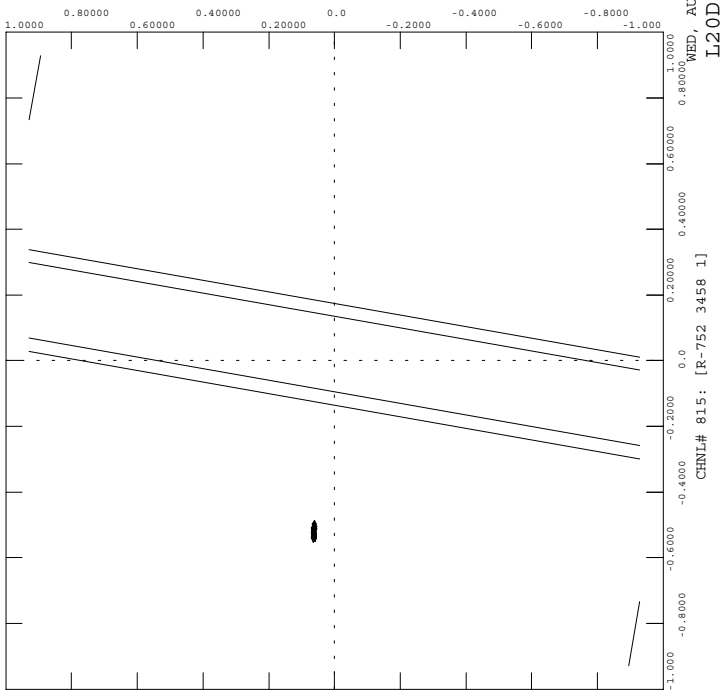


WED, AUG 18 2004 13:31
FORBES DC RED DCAR (679)
CHNL# 968: [DCAR-G]

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 816: [X-DRY4-LET4]



WED, AUG 18 2004 13:31
L20D AT DRAYTON (506)
CHNL# 815: [R-752 3458 1]

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
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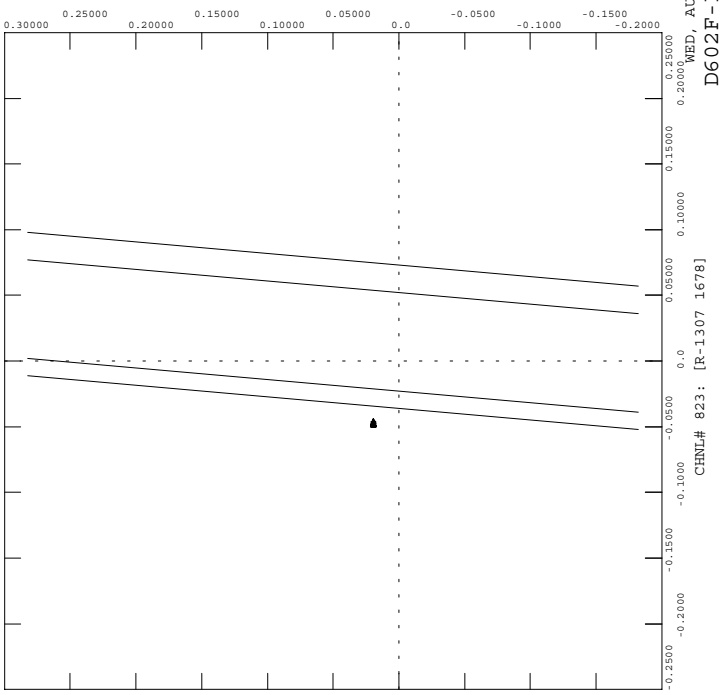
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 824: [X-FRB2-ROS2]

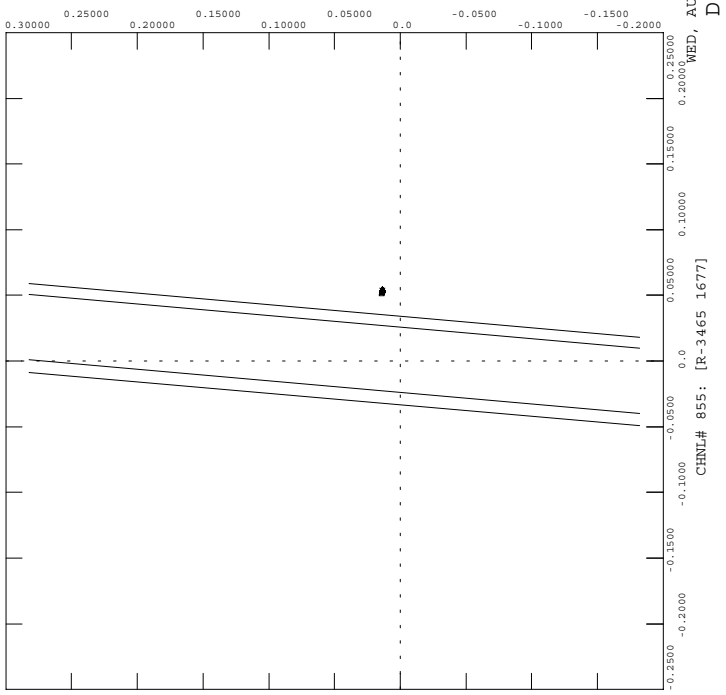


WED, AUG 18 2004 13:31
D602F-FORBES-EMRG (778)
CHNL# 823: [R-1307 1678]

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 856: [X-DSY2-ROS2]

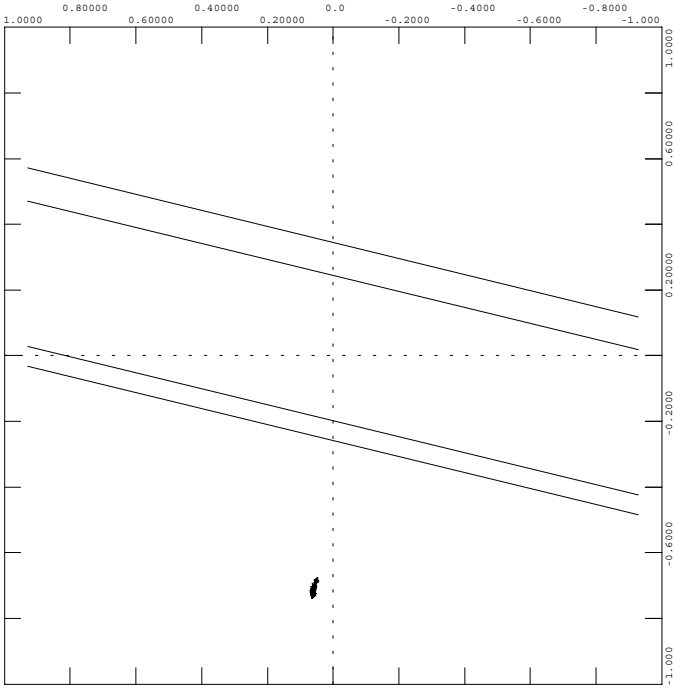


WED, AUG 18 2004 13:31
D602F-DORSEY (606)
CHNL# 855: [R-3465 1677]

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

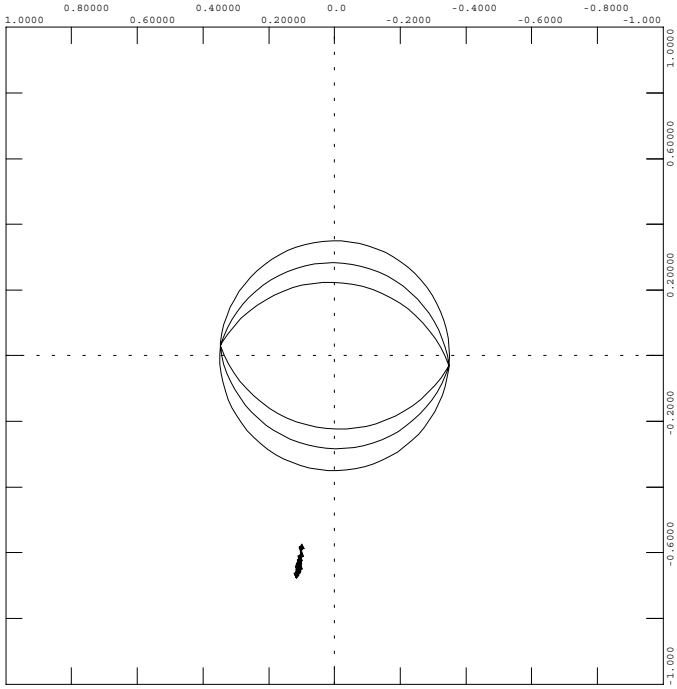
RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 822: [X-MRV4-RCH4]



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

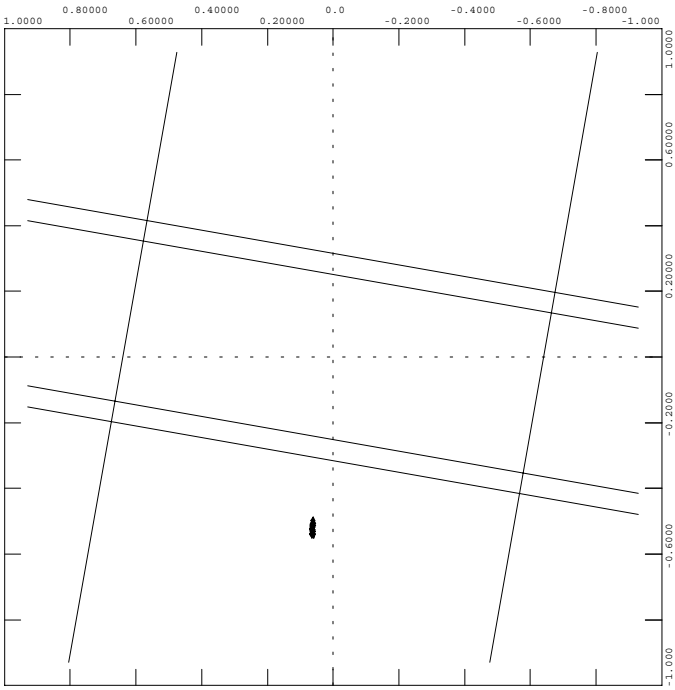
RELAY: SLLP1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 814: [X-TGA4-BD 4]



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

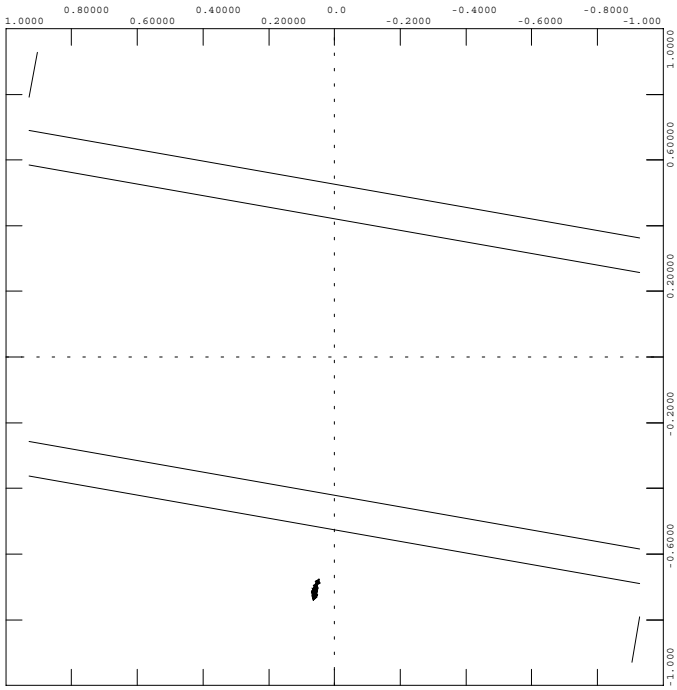
RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 816: [X-DRY4-LET4]



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

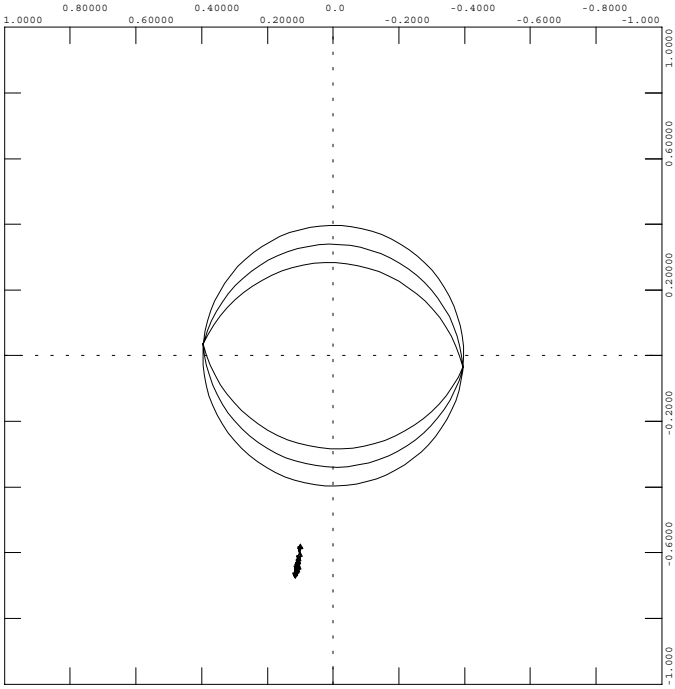
RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 822: [X-MRV4-RCH4]



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

RELAY: SLLP1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 814: [X-TGA4-BD 4]

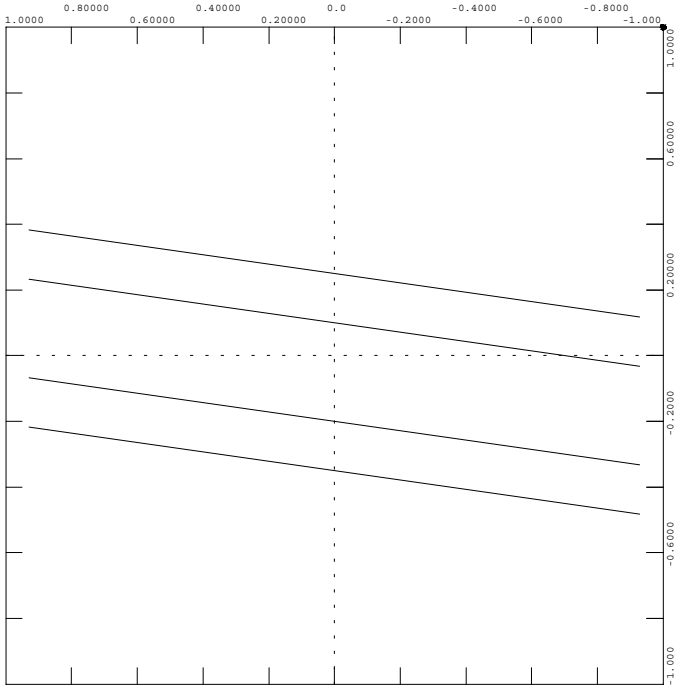


WED, AUG 18 2004 13:31
TIOGA-B.DAM-EMRG (267)

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 986: [X-G82R]

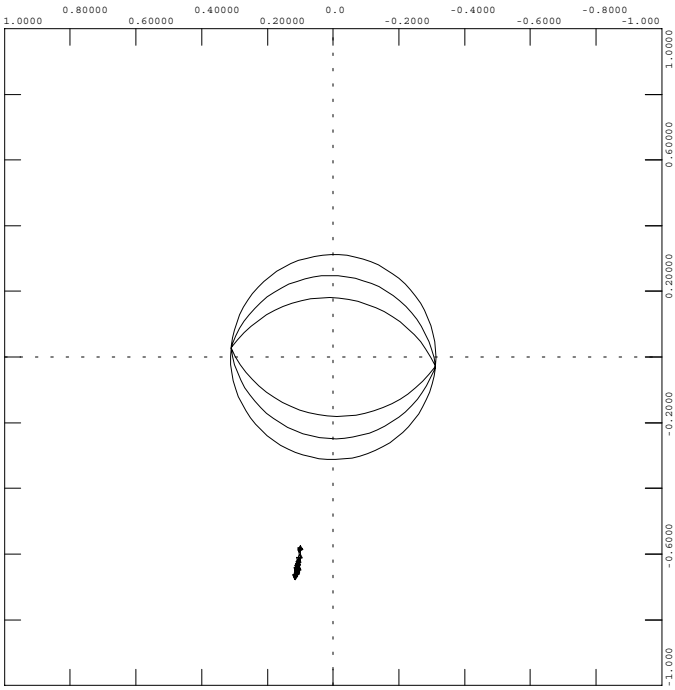


WED, AUG 18 2004 13:31
G82R (780)

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

RELAY: SLLP1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 814: [X-TGA4-BD 4]

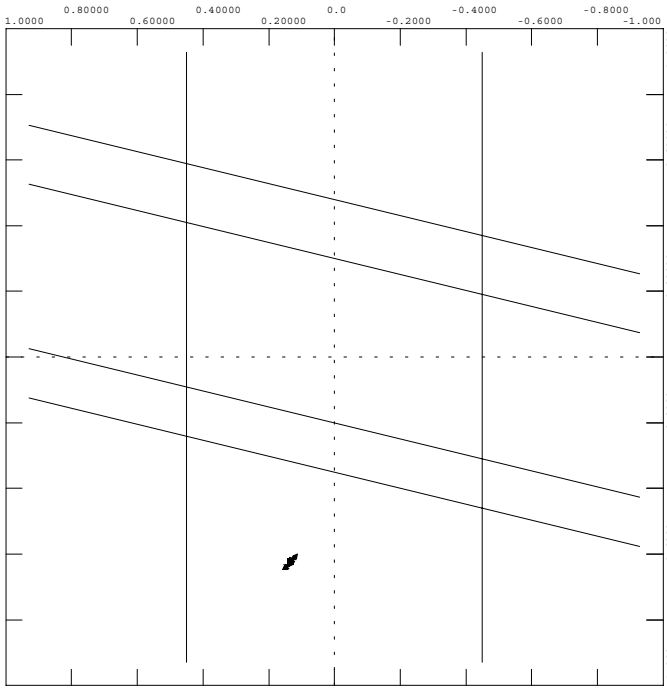


WED, AUG 18 2004 13:31
TIOGA-B.DAM-NORTH (268)

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE

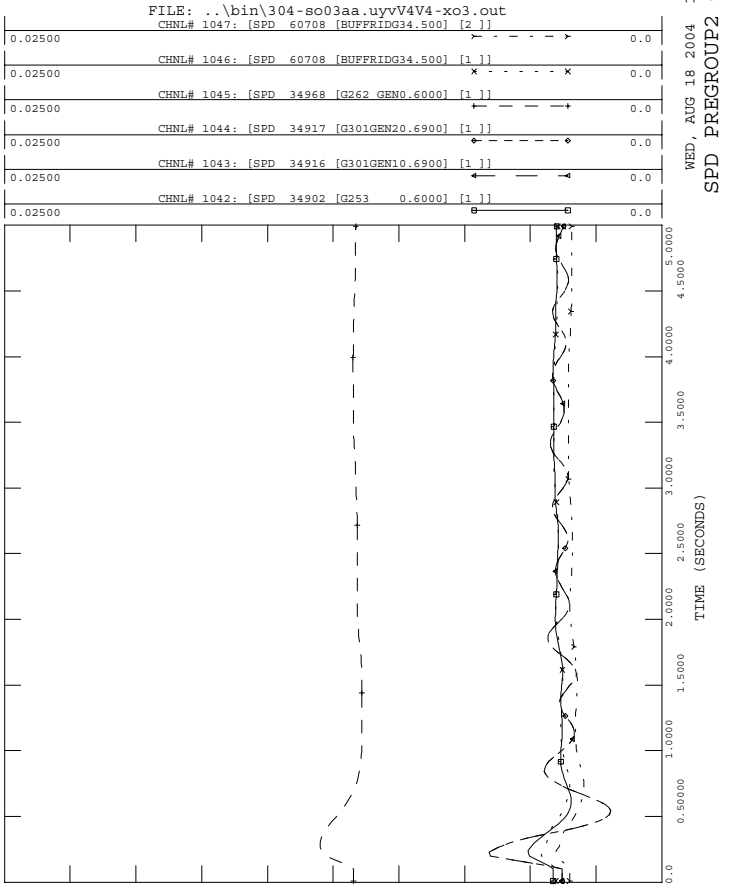
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 848: [X-INT.F-FTF]

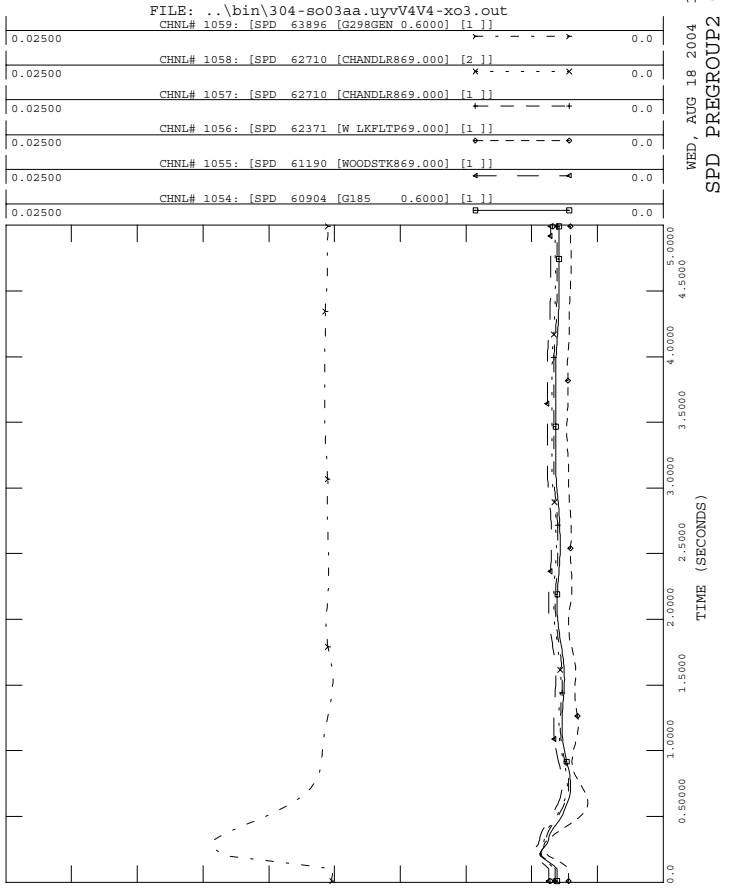


WED, AUG 18 2004 13:31
MP-OH I.FALLS (779)

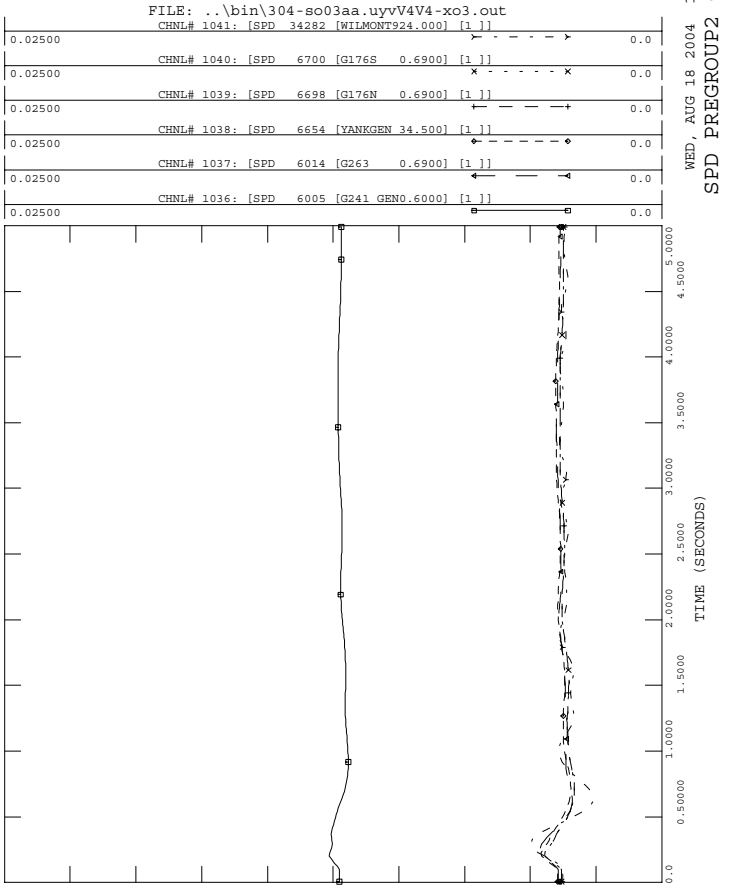
304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out



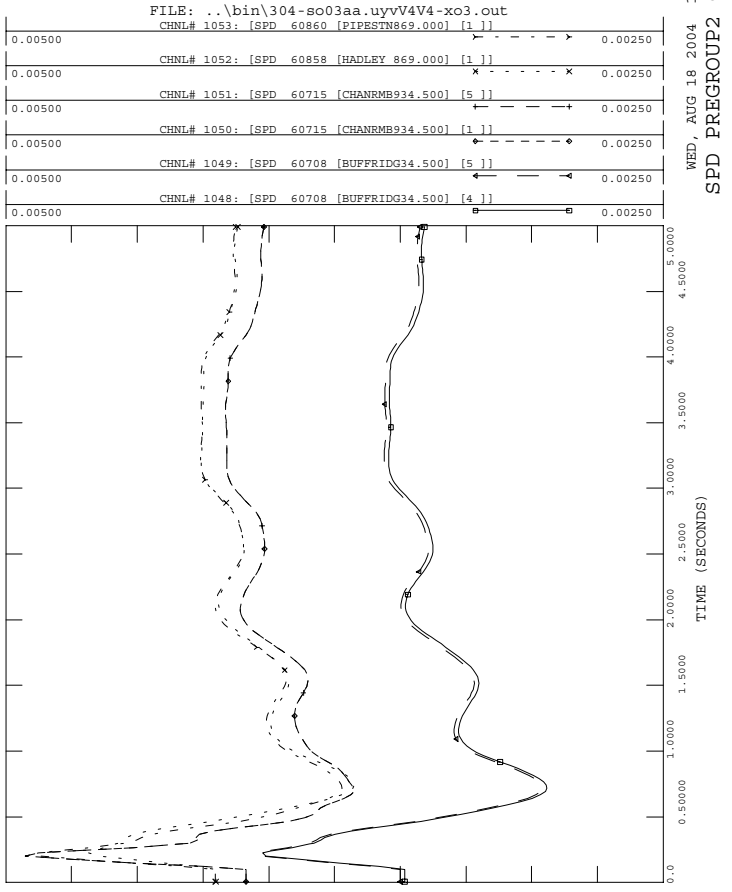
304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out



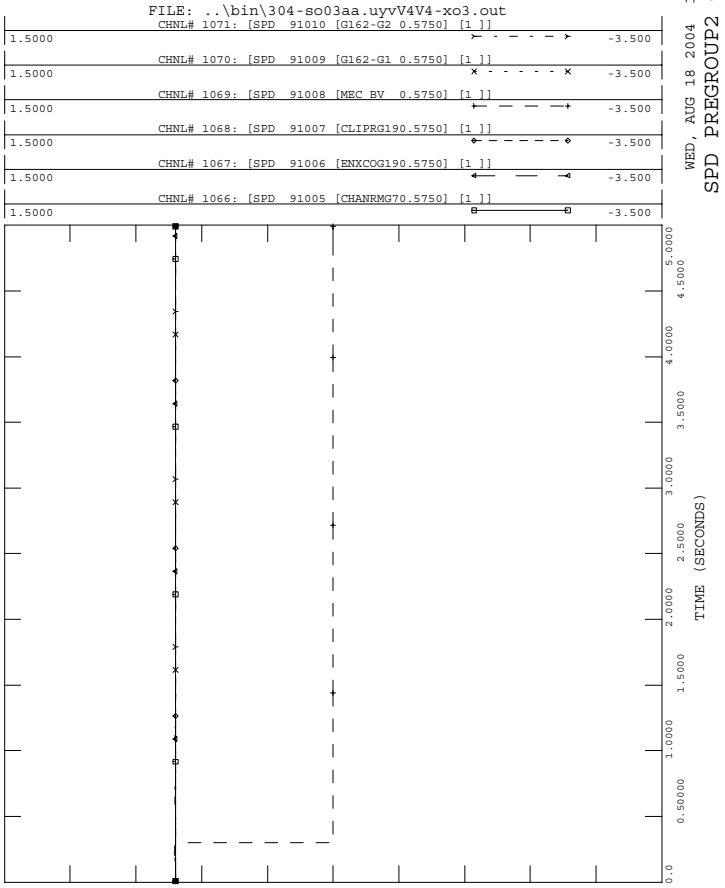
304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

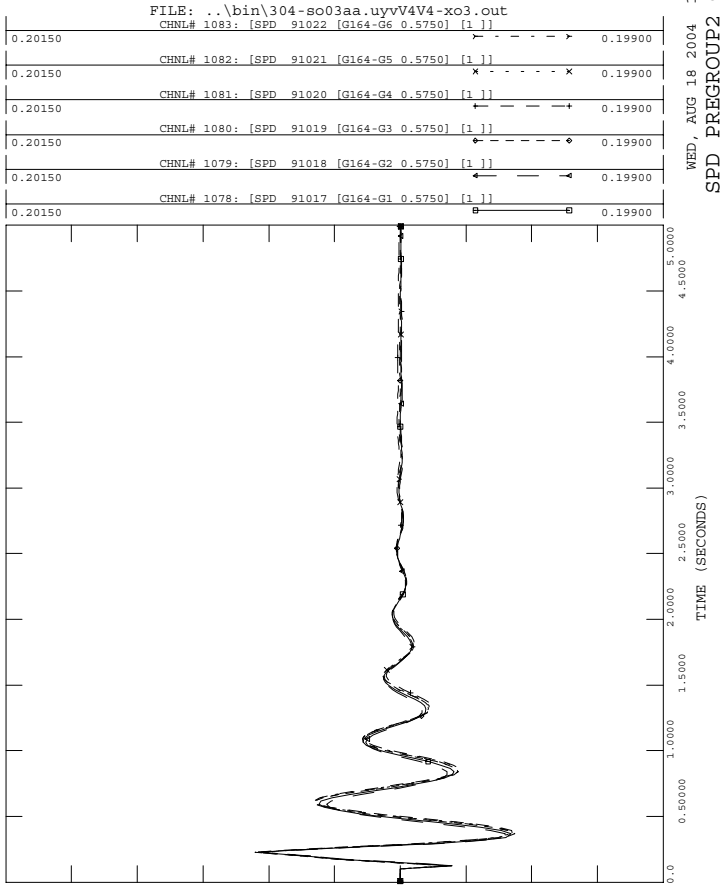


304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out



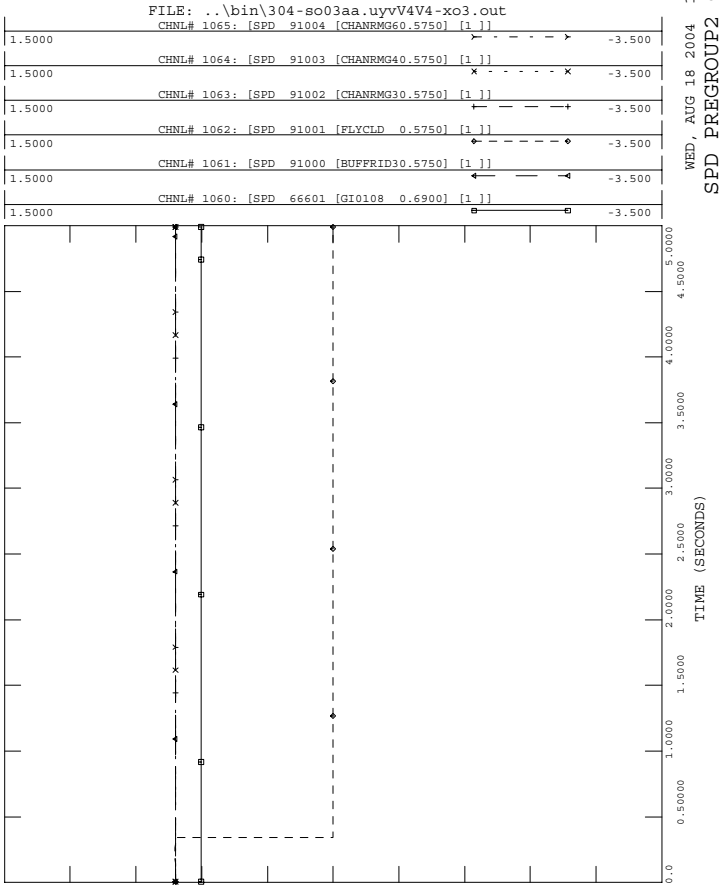
WED, AUG 18 2004 13:31
SPD PREGROUP2 GEN

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out



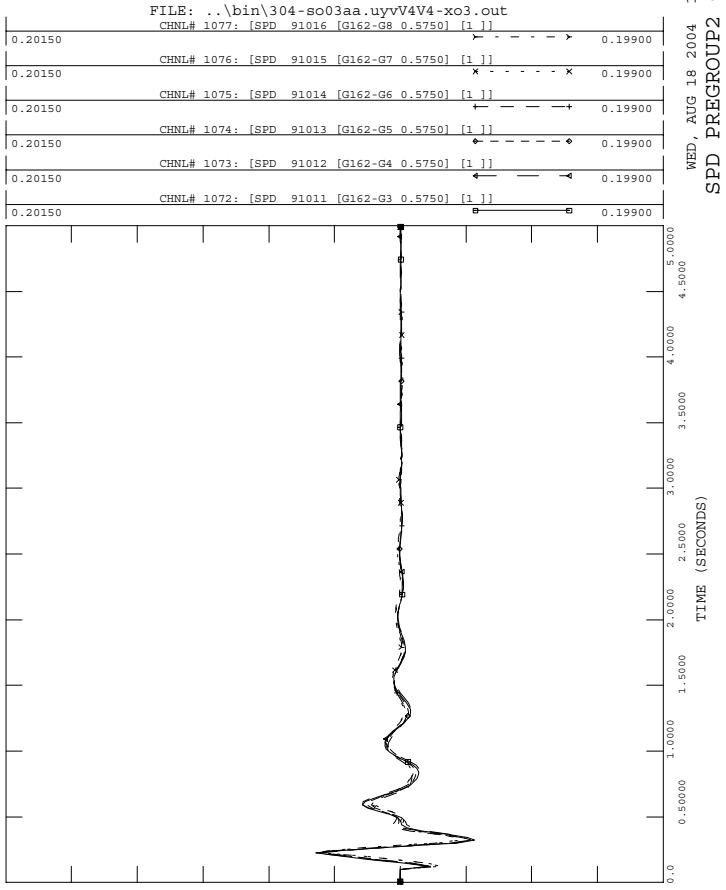
WED, AUG 18 2004 13:31
SPD PREGROUP2 GEN

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out



WED, AUG 18 2004 13:31
SPD PREGROUP2 GEN

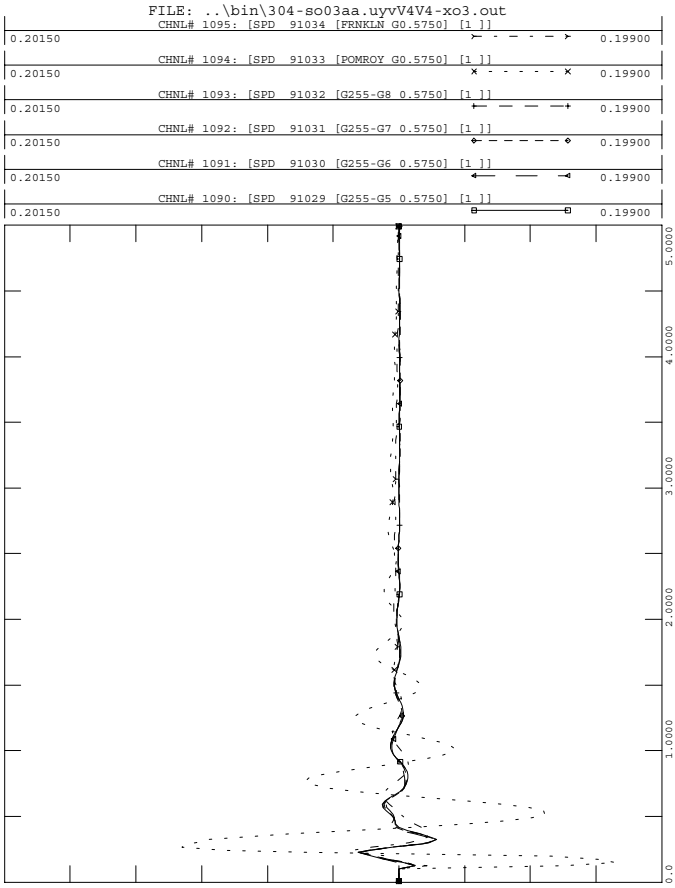
304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out



WED, AUG 18 2004 13:31
SPD PREGROUP2 GEN

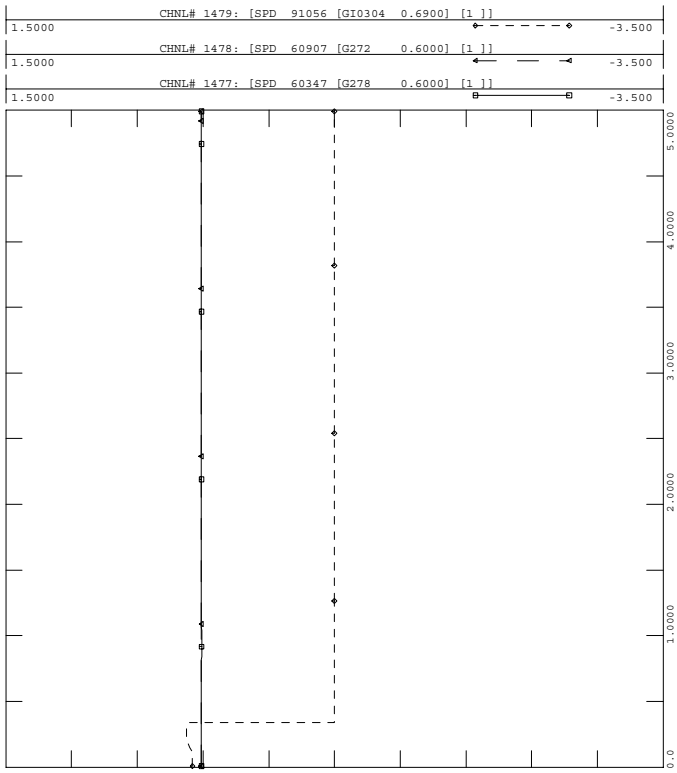
304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

WED, AUG 18 2004 13:31
SPD PREGROUP2 GEN



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

WED, AUG 18 2004 13:31
SPD GROUP2 INDUC GEN



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
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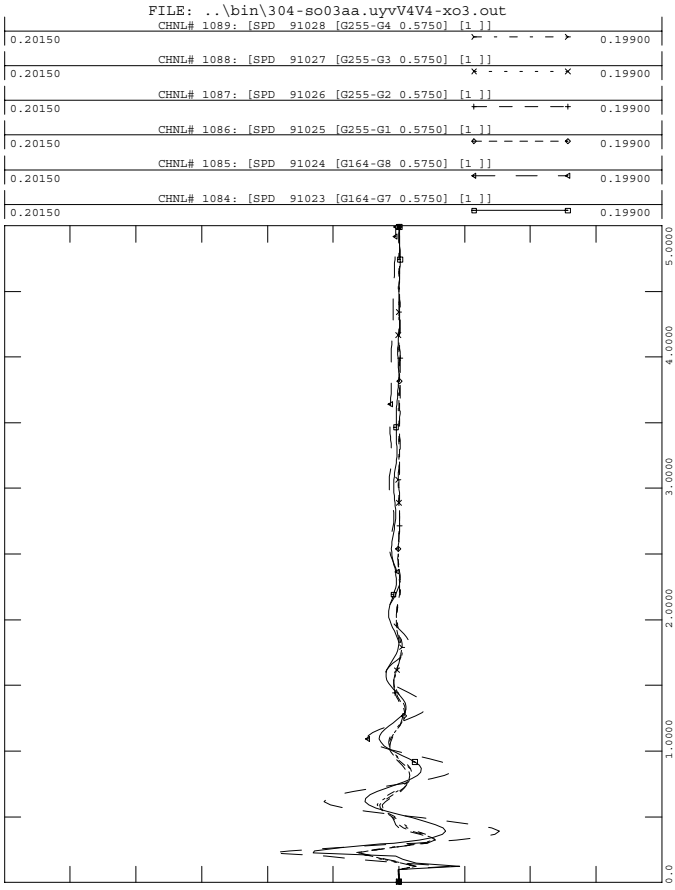
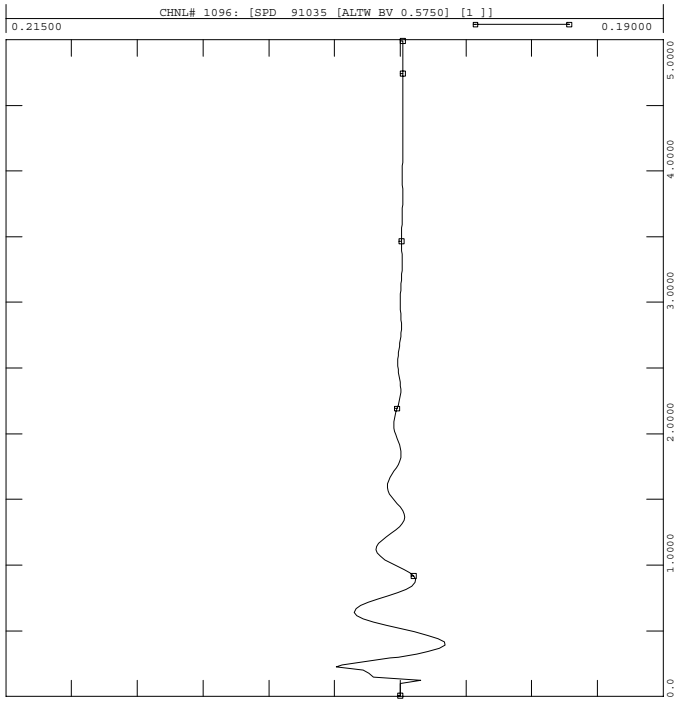
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

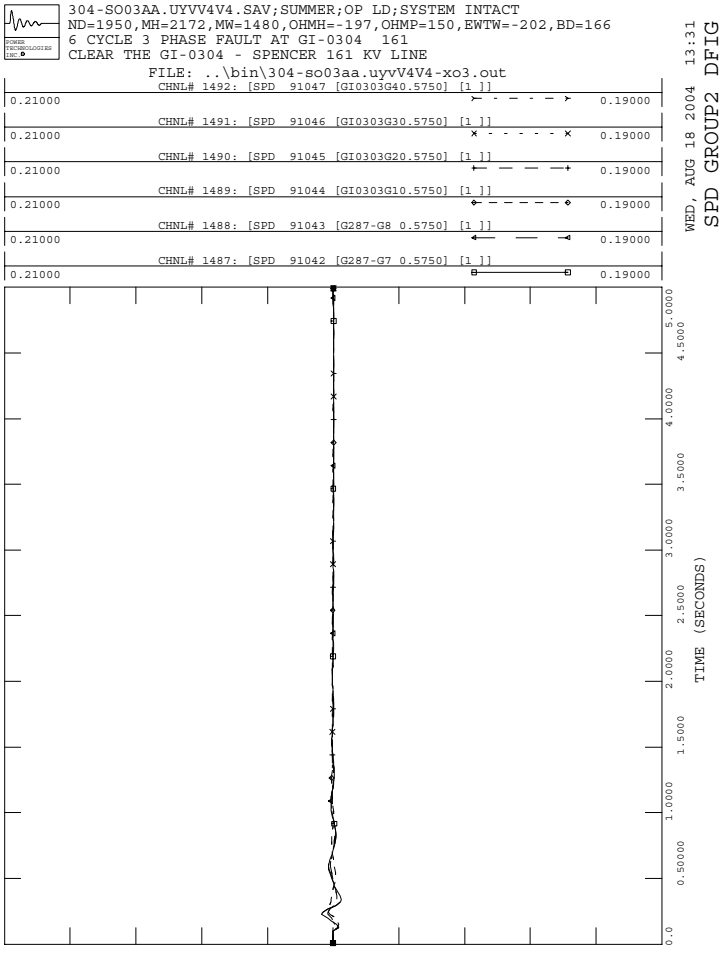
WED, AUG 18 2004 13:31
SPD PREGROUP2 GEN

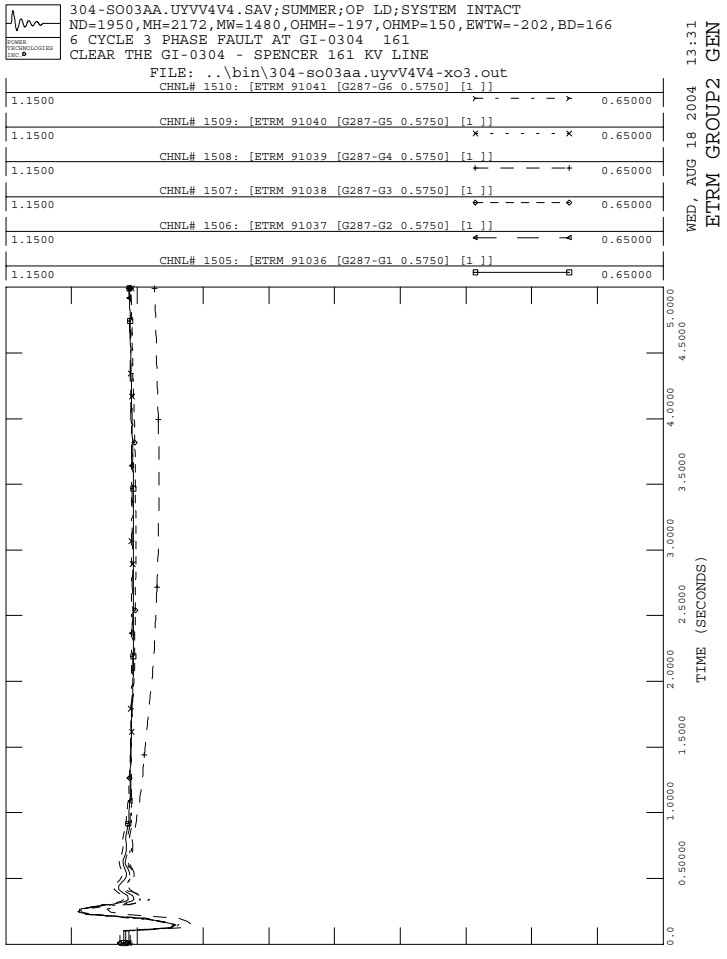


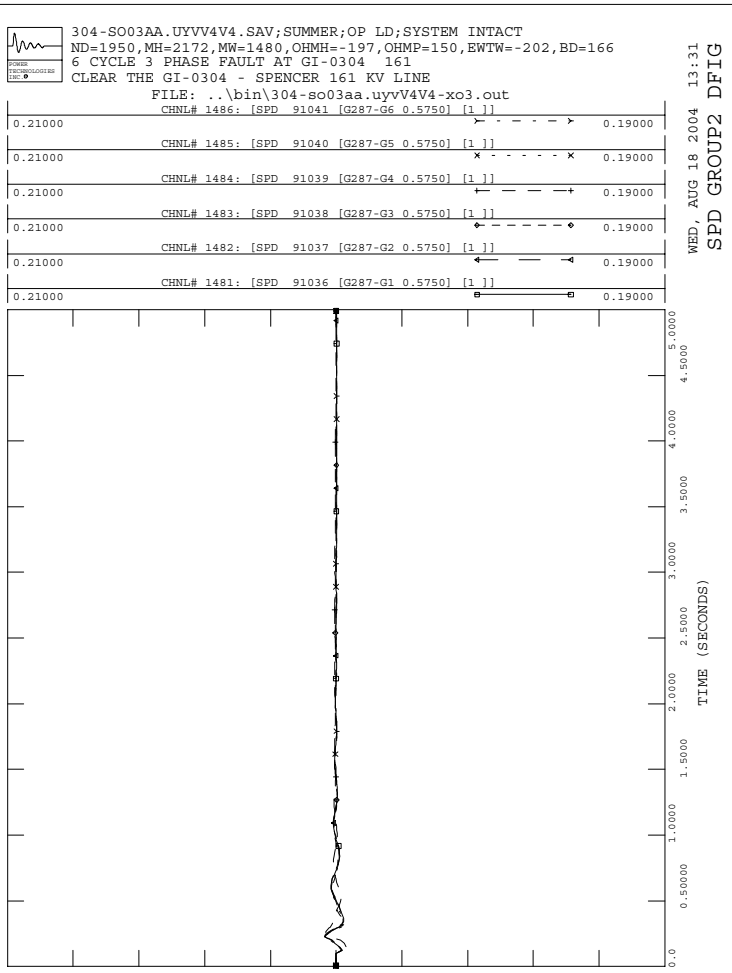
304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

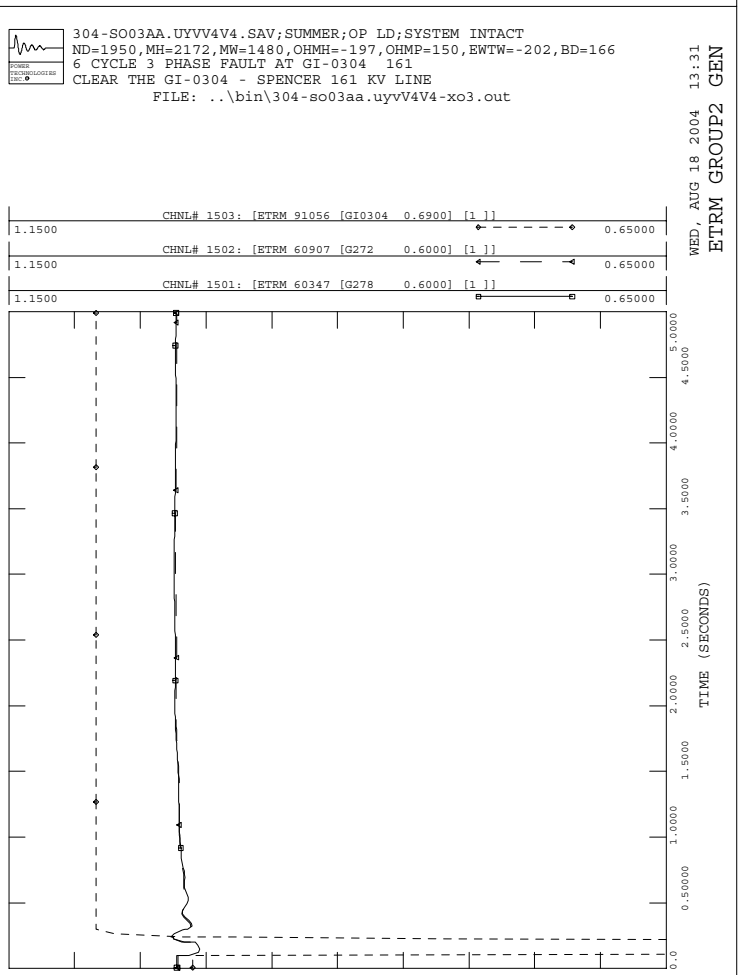
WED, AUG 18 2004 13:31
SPD PREGROUP2 GEN




304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out
CHNL# 1492: [SPD 91047 [GI0303G40.5750] [1]]
CHNL# 1491: [SPD 91046 [GI0303G30.5750] [1]]
CHNL# 1490: [SPD 91045 [GI0303G20.5750] [1]]
CHNL# 1489: [SPD 91044 [GI0303G10.5750] [1]]
CHNL# 1488: [SPD 91043 [G287-G8 0.5750] [1]]
CHNL# 1487: [SPD 91042 [G287-G7 0.5750] [1]]
0.21000
0.19000
TIME (SECONDS)
WED, AUG 18 2004 13:31
SPD GROUP2 DFIG


304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out
CHNL# 1510: [ETRM 91041 [G287-G6 0.5750] [1]]
CHNL# 1509: [ETRM 91040 [G287-G5 0.5750] [1]]
CHNL# 1508: [ETRM 91039 [G287-G4 0.5750] [1]]
CHNL# 1507: [ETRM 91038 [G287-G3 0.5750] [1]]
CHNL# 1506: [ETRM 91037 [G287-G2 0.5750] [1]]
CHNL# 1505: [ETRM 91036 [G287-G1 0.5750] [1]]
1.1500
0.65000
TIME (SECONDS)
WED, AUG 18 2004 13:31
ETRM GROUP2 GEN

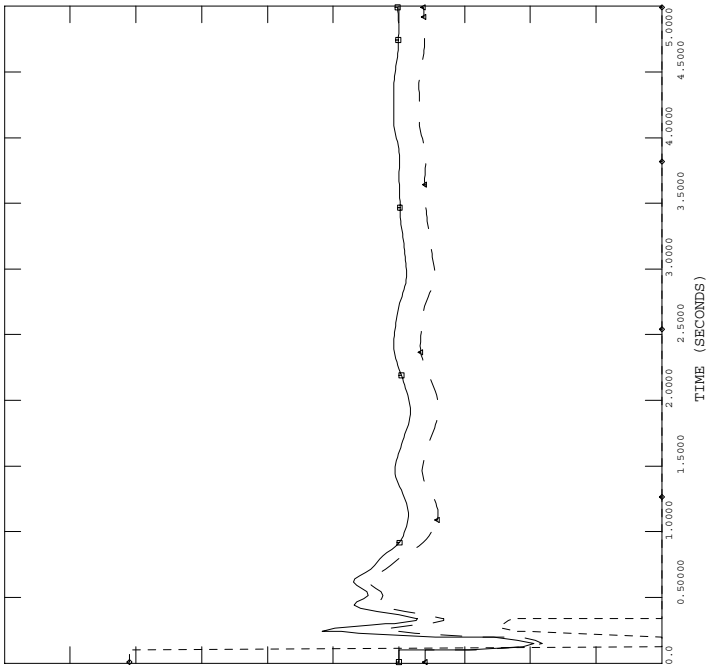

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out
CHNL# 1486: [SPD 91041 [G287-G6 0.5750] [1]]
CHNL# 1485: [SPD 91040 [G287-G5 0.5750] [1]]
CHNL# 1484: [SPD 91039 [G287-G4 0.5750] [1]]
CHNL# 1483: [SPD 91038 [G287-G3 0.5750] [1]]
CHNL# 1482: [SPD 91037 [G287-G2 0.5750] [1]]
CHNL# 1481: [SPD 91036 [G287-G1 0.5750] [1]]
0.21000
0.19000
TIME (SECONDS)
WED, AUG 18 2004 13:31
SPD GROUP2 DFIG


304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out
CHNL# 1503: [ETRM 91056 [GI0304 0.6900] [1]]
CHNL# 1502: [ETRM 60907 [G272 0.6000] [1]]
CHNL# 1501: [ETRM 60347 [G278 0.6000] [1]]
1.1500
0.65000
TIME (SECONDS)
WED, AUG 18 2004 13:31
ETRM GROUP2 GEN

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

WED, AUG 18 2004 13:31
P GROUP2 GEN

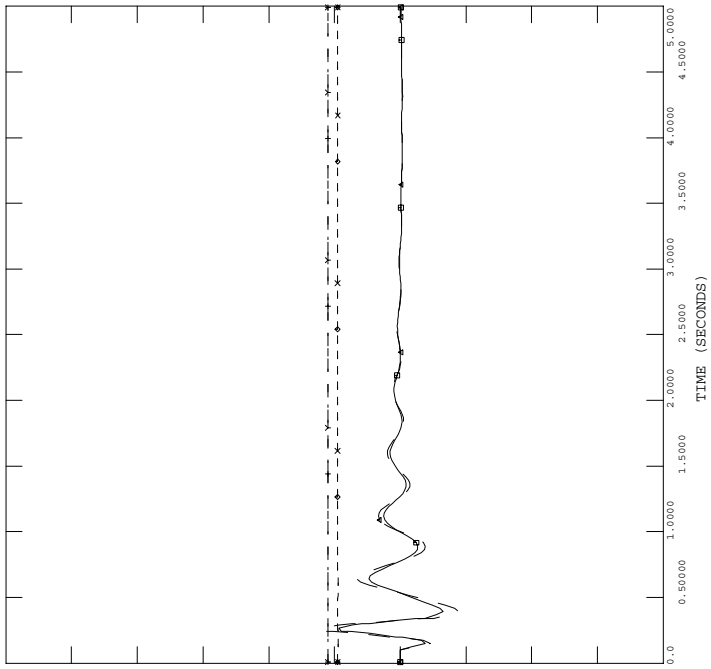
CHNL# 1527: [POWR 91056 [GI0304 0.6900] [1]]
1.0000 0.0
CHNL# 1526: [POWR 60907 [G272 0.6000] [1]]
0.11500 0.09000
CHNL# 1525: [POWR 60347 [G278 0.6000] [1]]
0.09500 0.07000



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

WED, AUG 18 2004 13:31
P GROUP2 GEN

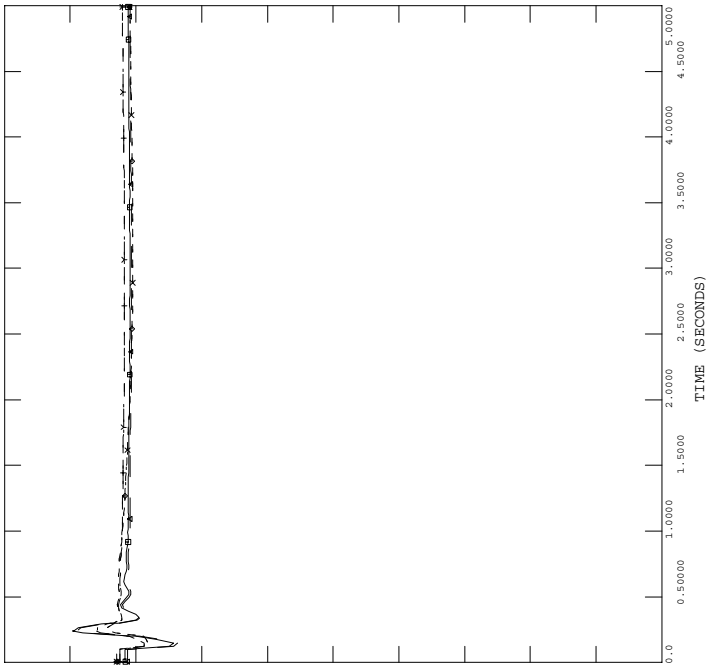
CHNL# 1540: [POWR 91047 [GI0303G40.5750] [1]]
1.0000 0.0
CHNL# 1539: [POWR 91046 [GI0303G30.5750] [1]]
1.0000 0.0
CHNL# 1538: [POWR 91045 [GI0303G20.5750] [1]]
1.0000 0.0
CHNL# 1537: [POWR 91044 [GI0303G10.5750] [1]]
1.0000 0.0
CHNL# 1536: [POWR 91043 [G287-G8 0.5750] [1]]
0.28650 0.28400
CHNL# 1535: [POWR 91042 [G287-G7 0.5750] [1]]
0.22650 0.22400



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

WED, AUG 18 2004 13:31
ETRM GROUP2 GEN

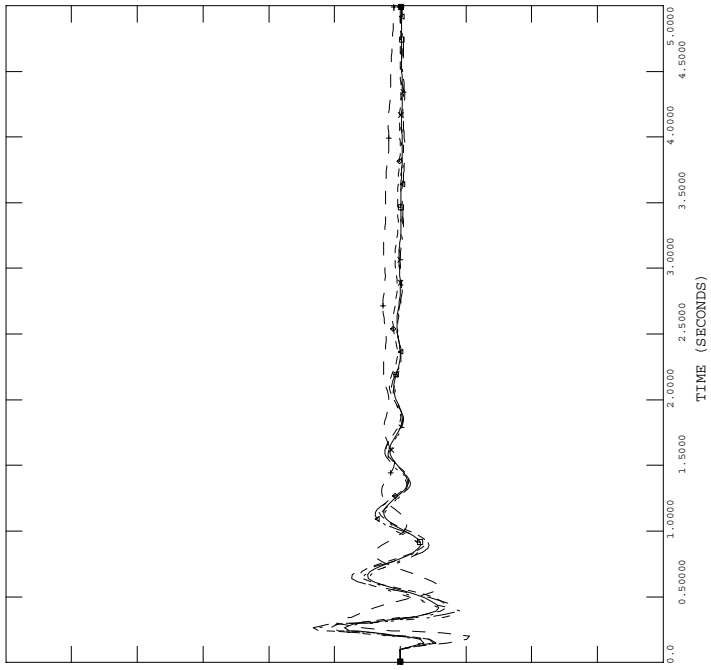
CHNL# 1516: [ETRM 91047 [GI0303G40.5750] [1]]
1.1500 0.65000
CHNL# 1515: [ETRM 91046 [GI0303G30.5750] [1]]
1.1500 0.65000
CHNL# 1514: [ETRM 91045 [GI0303G20.5750] [1]]
1.1500 0.65000
CHNL# 1513: [ETRM 91044 [GI0303G10.5750] [1]]
1.1500 0.65000
CHNL# 1512: [ETRM 91043 [G287-G8 0.5750] [1]]
1.1500 0.65000
CHNL# 1511: [ETRM 91042 [G287-G7 0.5750] [1]]
1.1500 0.65000



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

WED, AUG 18 2004 13:31
P GROUP2 GEN

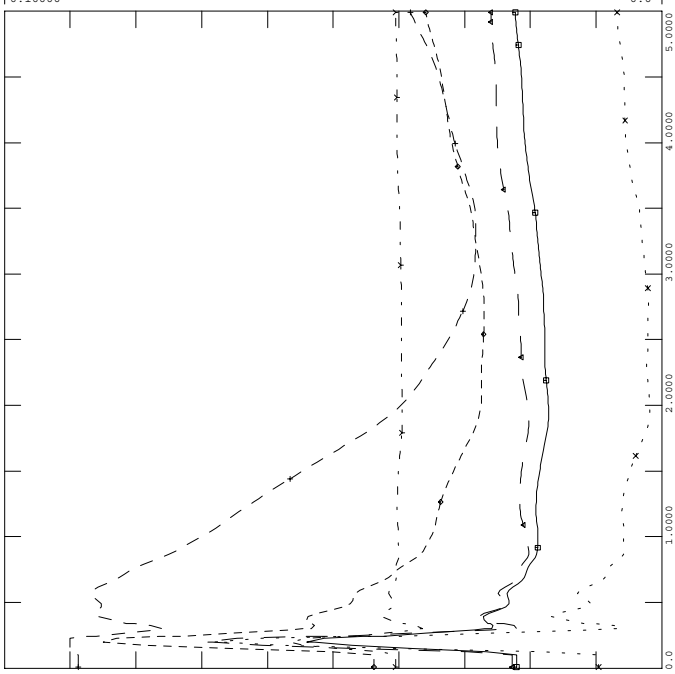
CHNL# 1534: [POWR 91041 [G287-G6 0.5750] [1]]
0.31650 0.31400
CHNL# 1533: [POWR 91040 [G287-G5 0.5750] [1]]
0.19650 0.19400
CHNL# 1532: [POWR 91039 [G287-G4 0.5750] [1]]
0.27150 0.26900
CHNL# 1531: [POWR 91038 [G287-G3 0.5750] [1]]
0.25650 0.25400
CHNL# 1530: [POWR 91037 [G287-G2 0.5750] [1]]
0.31650 0.31400
CHNL# 1529: [POWR 91036 [G287-G1 0.5750] [1]]
0.19650 0.19400



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

WED, AUG 18 2004 13:31
Q GROUP2 GEN

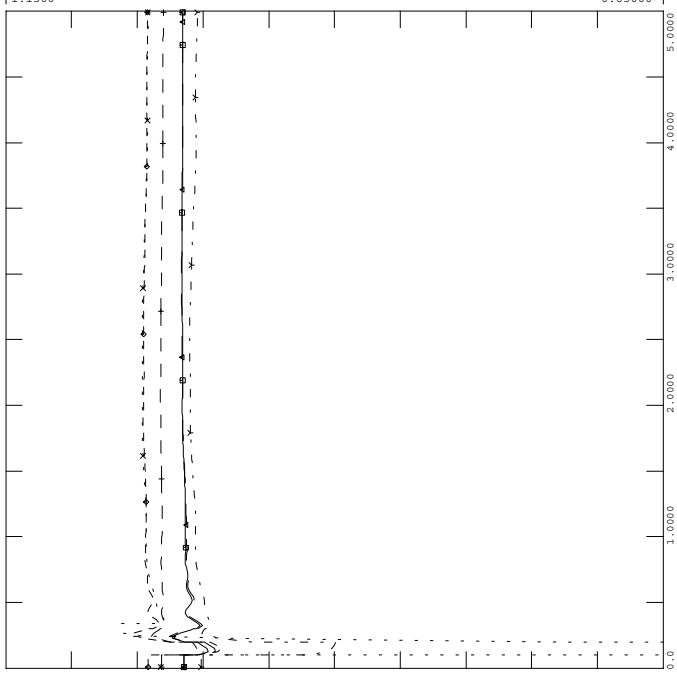
CHNL# 1558: [VARS 91041 [G287-G6 0.5750] [1]] 0.15000 -0.1000
CHNL# 1557: [VARS 91040 [G287-G5 0.5750] [1]] 0.05000 0.0
CHNL# 1556: [VARS 91039 [G287-G4 0.5750] [1]] 0.10000 0.0
CHNL# 1555: [VARS 91038 [G287-G3 0.5750] [1]] 0.10000 0.0
CHNL# 1554: [VARS 91037 [G287-G2 0.5750] [1]] 0.10000 0.0
CHNL# 1553: [VARS 91036 [G287-G1 0.5750] [1]] 0.10000 0.0



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

WED, AUG 18 2004 13:31
VOLT GROUP2 INT PT

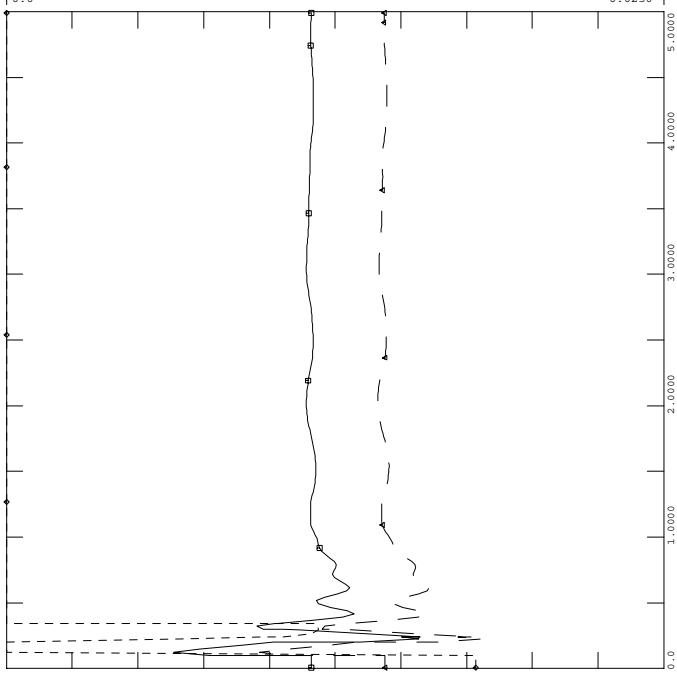
CHNL# 1578: [VOLT 66562 [EAGLE 4230.00]] 1.1500 0.65000
CHNL# 1577: [VOLT 66602 [GI0304 161.00]] 1.1500 0.65000
CHNL# 1576: [VOLT 66538 [WHITE 7115.00]] 1.1500 0.65000
CHNL# 1575: [VOLT 60287 [NOBLES 7115.00]] 1.1500 0.65000
CHNL# 1574: [VOLT 60860 [PIPESTN869.000]] 1.1500 0.65000
CHNL# 1573: [VOLT 60835 [CHNDLRT869.000]] 1.1500 0.65000



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

WED, AUG 18 2004 13:31
Q GROUP2 GEN

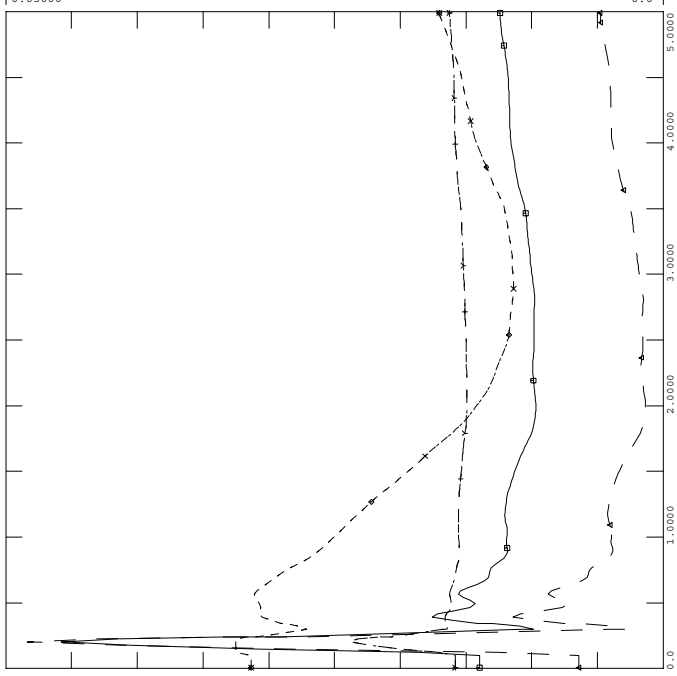
CHNL# 1551: [VARS 91056 [GI0304 0.6900] [1]] 0.0 -0.5000
CHNL# 1550: [VARS 60907 [G272 0.6000] [1]] 0.0 -0.0250
CHNL# 1549: [VARS 60347 [G278 0.6000] [1]] 0.0 -0.0250



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

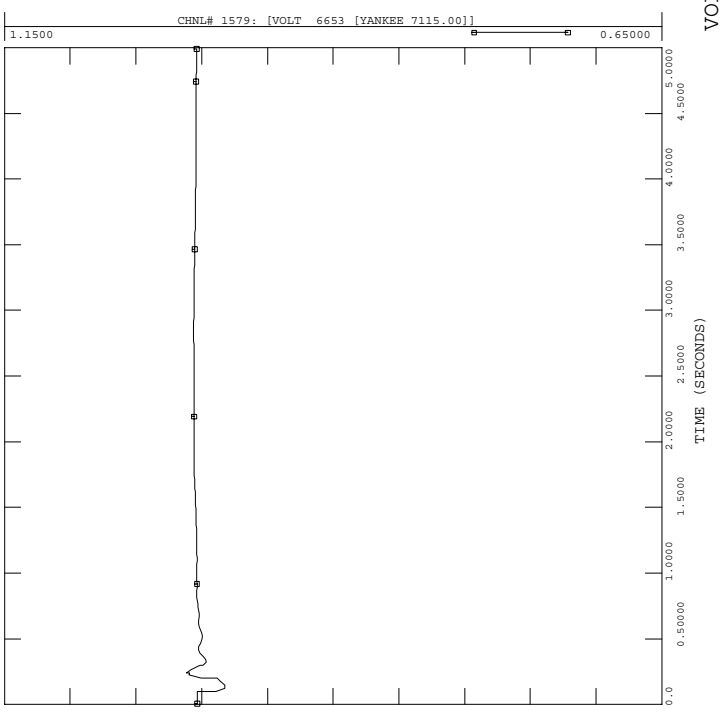
WED, AUG 18 2004 13:31
Q GROUP2 GEN

CHNL# 1564: [VARS 91047 [GI0303G40.5750] [1]] 0.25000 0.0
CHNL# 1563: [VARS 91046 [GI0303G30.5750] [1]] 0.20000 0.10000
CHNL# 1562: [VARS 91045 [GI0303G20.5750] [1]] 0.25000 0.0
CHNL# 1561: [VARS 91044 [GI0303G10.5750] [1]] 0.20000 0.10000
CHNL# 1560: [VARS 91043 [G287-G8 0.5750] [1]] 0.05000 0.0
CHNL# 1559: [VARS 91042 [G287-G7 0.5750] [1]] 0.05000 0.0



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3.out

WED, AUG 18 2004 13:31
VOLT GROUP2 INT PT



J.3 Disturbance xo3-nt with GI0304

(With undervoltage protection disabled)

6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE

WED, AUG 18 2004 13:44

INITIATED AT LOAD FLOW ENTRY POINT ON WED, AUG 18 2004 13:44

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166

6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE

SPECIAL RESPONSE FILES AND COMMENTS
------- -------- ----- --- --------

RESPONSE FILES
-------- -----

..\idv\no-vtgtrp.idv:

COMMENTS

None

P O W E R F L O W S U M M A R Y

NDEX:	1950 MW	ECL-ARP:	806 MW
MHEX:	2172 MW	PRI-BYN:	675 MW
MWSI:	1482 MW	LKM-WFB:	-55 MW
		NI-WUMS:	430 MW
COOPER S:	1197 MW	WNE-WKS:	592 MW
FTCAL S:	863 MW	GGS:	1646 MW
GRIS-LNC:	743 MW	QC WEST:	-122 MW

LOAD LEVELS AS PERCENT OF 2003 SUMMER PEAK:
NORTH DAKOTA (ZONE 90,990) 1744.5 MW, 66.3% OF 2632.4 MW
NSP (AREA 600) 8741.2 MW, 96.2% OF 9083.5 MW
MAN HYDRO (AREA 667) 2264.9 MW, 85.0% OF 2663.8 MW

Load/Losses	MW / MW	Generation	MW	Export	MW
Manitoba	2264/ 364	MH total gross	4951	MN-WUMS	1058
Ont. total	22447/ 535	Wpg River	560	MN-IOWA	-720
NW	724/ 65	7 Sisters	163	MNEX	1153
Sask.	2384/ 78	OH total gross	23037	East Bias	412
MP	1666/ 119	northwest	943	SPC>WAPA (B10T)	166
NSP	8741/ 710	SPC total gross	2627	MH>SPC (3-230)	75
N. Dakota	1744/ 272	MP total gross	2100	MH>SPC (FALLS)	-71
Manitoba	556 MVARS	ND Cfd AC gross	3034	OH>MH @Kenora	-197
Ont. total	13190 MVARS	net	2863	OH>MP @Ft Fran	150
NW	425 MVARS	NSP East gross	1928	OH E>W @Wawa	-202
Sask.	569 MVARS	net	1819	OH>East USA	-2
MP	445 MVARS	West gross	2239	F601C @Forbes	1948
NSP	1513 MVARS	net	2073	D602F @Dorsey	1860
N. Dakota	362 MVARS	Total net	7218	L20D @Letell	199
		WAPA SD Hydro	1441	R50M @Richer	152
		Pleasant Valley	0	G82R @Glenboro	-39
		Lakefield Gen	549		
		Buffalo Ridge	151		
		Swing Bus	620		

Tfmrs	MVA/ Load	Ph Shifters	Deg/ MW	DC Lines	MW
Wshell #1 7-7	100/ 50%	Stinson	50/ 108	CU (1,2)	1075
Wshell #2 7-7	100/ 50%	Boundary Dam	26/ 166	Miles City E>W	-150
Drayton#1 4-7	41/ 29%	Whiteshell	16/ 200	SQ BU (3,4)	400

Drayton#2	4-7	53/	28%	Int Falls	31/ 150	MH Bipole 1	1511
Dorsey #1	2-4	878/	73%	St. Lawrence	7/ 2	MH Bipole 2	1710
Dorsey #2	2-4	1038/	86%			MH (BP1+BP2)	3221
Forbes	2-4	116/	17%				

Dorsey SC's		I/S	MVAR	Qmax/ Qmin
MIL 7-9G	17.0	2	557	600/ -330
SCE 1-3G	18.2	3	447	480/ -240
SCA 4-6G	18.2	3	447	480/ -240
Total			1451	1560/ -810
Margin			109	

SVC's	MVAR	Qmax/ Qmin
Forbes	500	34 400/ -450
Fargo	13.2	2 20/ -135
Watertown	20.0	49 125/ -86

Series Caps	Num In Serv
Roseau 500	2 of 2
Chisago 500	1 of 1

Caps/Reactors	MVAR	Caps/Reactors	MVAR	Caps/Reactors	MVAR
Balta (FS) 230	0	Arrowhead 230	160	Chisago T 9 34.5	50
Drayton 115	20	Blackberry 230	47	Chisago T 10 34.5	50
Drayton 13.8	0	Minntac 115	45	Forbes 230	72
Eau Claire(FS) 161	356	Riverton 230	47	Forbes 500	600
Kohlman Lake 115	233	Roseau Co.(FS) 230	0		0
Parkers Lk(FS) 115	240	Running (FS) 230	30	Fargo 115	54
Prairie (FS) 115	40	Running react 230	0	Watertown 20	20
Ramsey (FS) 230	0	Shannon 230	72	Watertown 230	76
Red Rock 115	156		0		0
Rugby 13.8	-25	Glenboro 230	0		0
Split Rock(FS) 115	80	Laverendrye 110	98		0
Sheyenne (FS) 115	40	Richer react 230	0		0
Wilton/Bemidji 115	0	St Vital 110	98		0

Bus Voltages	V,pu	Bus Voltages	V,pu	Bus Voltages	V,kV
Adams 345	1.016	Arrowhead 230	1.025	Whiteshell 110	118.8
Alexandria 115	0.982	Badoura 115	0.984	Kenora 220	240.8
Audubon 115	1.010	Blackberry 230	1.021	Dryden 220	241.4
Bemidji 115	0.985	Boise Cascade 13.8	1.067	Fort Frances 220	235.5
Byron 345	1.036	Boise Cascade 115	1.013	Mackenzie 220	243.7
Chisago Co. 345	1.001	ETCO 115	0.994	Lakehead 220	245.5
Chisago Co. 500	0.992	Forbes 230	1.002	Marathon 220	239.3
Drayton 230	1.029	Forbes 500	0.990	Wawa 220	235.1
Eau Claire 345	0.956	Hubbard 115	0.976	Mississagi 220	232.6
Faribault,West 115	1.023	Intl Falls 115	1.012	Fort Frances 118	118.4
LaPorte 115	0.984	Minntac 115	1.001	Lakehead 118	123.5
Maple River 230	1.005	Moranville 230	1.034	Birch 118	121.4
Marshall Tap 115	1.019	Riverton 230	0.983	Marathon 118	124.3
Owatonna 161	0.999	Running 230	1.026		0.0
Prairie 115	1.006	Shannon 230	1.020		0.0
Prairie 230	1.026		0.000		0.0
Ramsey 230	1.027	Groton 345	1.019		0.0
Roseau County 230	1.035	Watertown 230	1.030		0.0
Roseau County 500	1.061	Watertown 345	1.027		0.0
Sheyenne 230	1.006		0.000		0.0
Thief R Falls 115	1.014	Dorsey 230	1.045		0.0
Tioga 230	1.039	Dorsey 500	1.032		0.0
Wahpeton 230	0.991		0.000		0.0
Winger 115	1.024		0.000		0.0

Steady State Relay Margins (measured from inner blinder)

Relay Location	Manuf/Type	PSS Model	South	North	Em North
1) B10T-Tioga (South)	GE OST	SLLP	337%	N/A	N/A
2) -Tioga (North)	GE OST	SLLP	694%	N/A	N/A

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 3)     -Tioga (Em North)  GE OST       SLLP                    N/A       N/A
 4) D602F-Dorsey           ATP ???      SLINOS       325%       N/A       N/A
 5)      -Forbes (Normal)  ATP ???      SLINOS       205%       N/A       N/A
 6)      -Forbes (Em Nrth) APT S-PRO    SLINOS                  N/A       N/A
 8) F3M-Intl Falls         APT S-PRO    SLINOS       315%       N/A       N/A
 9) G82R-Rugby             APT          SLINOS       N/A       1329%
10) L20D-Drayton (Normal)  APT, ASEA    SLINOS      1094%       N/A       N/A
11)     -Drayton (Em Nrth) ASEA RXZF2   SLINOS                  N/A       N/A
12) R50M-Moranville (Norm) APT, West    SLINOS       879%       N/A       N/A
13)     -Moranville (Em N) ASEA RXZF2   SLINOS                  N/A       N/A

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     SIMULATION CHECKS FOLLOW:
+    ________________________

 ITER DELTAV/TOL X------ AT BUS ------X  REAL(DELTAV)  IMAG(DELTAV)
    1    48.135  67171 [MBPP-1  230.00]   -0.4015E-04    0.2655E-04
    2    15.296  67171 [MBPP-1  230.00]   -0.1329E-04    0.7576E-05
    3     5.569  67171 [MBPP-1  230.00]    0.4259E-05   -0.3589E-05
    4     2.086  67171 [MBPP-1  230.00]   -0.1606E-05    0.1330E-05
    5     0.819  67171 [MBPP-1  230.00]    0.6450E-06   -0.5055E-06

 REACHED TOLERANCE IN   5 ITERATIONS

 LARGEST MISMATCH:    0.00 MW    0.01 MVAR     0.01 MVA AT BUS 36023 [SLINE; B138.00]
 SYSTEM TOTAL ABSOLUTE MISMATCH:               0.33 MVA

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 INITIAL CONDITION LOAD FLOW USED  1 ITERATIONS

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 INITIAL CONDITIONS SUSPECT:
     I   DSTATE(I)    STATE(I)     MODEL   STATE    BUS  X--- NAME ---X   ID
 19523  -0.30413E-02 -0.22715      IEEEX1   K+2   59823  MOCTG1 113.800   1
 19952  -0.12614E-02  0.10000      IEEET1   K+1   63802  CBLUF33G24.000   3
 19968  -0.78183E-02  0.10000      IEEET1   K+1   63882  NEAL  2G20.000   2
 19972  -0.57429E-02  0.10000      IEEET1   K+1   63883  NEAL  3G22.000   3
 19976  -0.48500E-02  0.10000      IEEET1   K+1   63884  NEAL  4G24.000   4
 20033  -0.24382E-02  0.10000      IEEET1   K+1   64496  AMES 8  69.000   8
 20092  -0.18895E-02 -0.14396      IEEET1   K+1   65301  FT CAL1G22.000   1
 22050   0.29647E-04 -0.22582E-02  IEEET1   K+1   93518  OK C G6 18.000   H
 24934   0.26199     -0.47962E-01  GASTWD   K+5   65314  SARPY 4G13.800   4
 27811   0.40143      0.17527      GAST2A   K+5   68347  CORYGT1G13.800   1
 27824   0.45155      0.98846E-02  GAST2A   K+5   68348  CORYGT2G13.800   2
 27839   0.47956     -0.82564E-01  GAST2A   K+5   68367  MERGT 1G13.800   1
 27852   0.47956     -0.82564E-01  GAST2A   K+5   68368  MERGT 2G13.800   2
 28070  -0.46492E-03  0.16854E-01  CGECN2   K+7   91008  MEC BV  0.5750   1
 28961  -0.25194       4.3804      IEEET1   K+1   63710  WISDOM 869.000   1
 28965  -0.29168       3.9423      IEEET1   K+1   63710  WISDOM 869.000   2
 29005  -0.26848       2.0140      IEEET1   K+1   66581  SPENCER869.000   1
 29082   0.42596     -0.33565      GAST2A   K+5   34910  EMERYGT118.000   1
 29095   0.42596     -0.33565      GAST2A   K+5   34911  EMERYGT218.000   1
 29118    2.8995      -8.5685      GAST2A   K+5    7998  WTV-GEN 22.000   1


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     LINE SWITCHING EVENTS FOLLOW:
+    _____________________________
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     MHEB DC REDUCTIONS FOLLOW:
+    _________________________


     NETWORK NOT CONVERGED FOLLOW:
+    ____________________________


     RELOUV AND RELOUF SWITCHING EVENTS FOLLOW:
+    __________________________________________


     DC SWITCHING EVENTS FOLLOW:
+    ___________________________


     VSCAN EVENTS FOLLOW:
+    ____________________
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     PI 4 KV EVENTS FOLLOW:
+    ______________________


     RELAY SCAN EVENTS FOLLOW:
+    _________________________


     FARGO/WATERTOWN SVS EVENTS FOLLOW:
+    __________________________________


     UDHOLD EVENTS FOLLOW:
+    _____________________


     DYNAMIC VOLTAGE CHECKS FOLLOW:
+    ______________________________
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FROM TIME 0.4000 TO TIME 5.0000

CHAN NO.	DESCRIPTION	PU VOLT MAX .LT.	PU VOLT MIN .GT.	MINIMUM VOLT	MINIMUM TIME	MAXIMUM VOLT	MAXIMUM TIME	VMAX LESS VMIN
444	67503 DORSEY	1.25	0.70	1.04	1.14	1.05	0.57	0.01
386	61624 FORBES	1.15	0.82	1.00	1.24	1.00	0.67	0.00
384	61615 ARROWHD	1.15	0.82	1.02	1.27	1.03	0.74	0.01
382	61612 RIVERTN	1.15	0.75	0.98	1.32	0.99	0.77	0.01
362	66752 DRAYTON	1.20	0.80	1.03	1.34	1.03	0.59	0.00
562	63229 WAHPETN	1.18	0.80	1.01	1.42	1.01	0.79	0.00
350	67104 TIOGA4	1.15	0.80	1.04	1.54	1.04	0.44	0.00
392	63030 DICKNSN	1.17	0.70	1.02	0.42	1.03	0.84	0.01
390	63041 COAL CR	1.18	0.70	1.03	0.42	1.04	2.12	0.01
334	66529 WATERTN	1.18	0.75	1.03	0.52	1.03	0.82	0.00

```
  360   67160 GROTON    1.15  0.70     1.02  1.59     1.02  2.19    0.00
  553   61754 BOISE     1.15  0.82     1.01  1.29     1.01  0.64    0.00


     POWERFLOW WARNINGS AT END OF SIMULATION FOLLOW:
+    ___________________________________________

BUSES WITH VOLTAGE GREATER THAN 1.1000:
X------ BUS -----X AREA V(PU)  V(KV)    X------ BUS -----X AREA V(PU)  V(KV)
67556 WHTSL1 4 220 667 1.1040 242.87    67589 WHTSL2 4 220 667 1.1039 242.87
67770 SK1 SUB7 110 667 1.1462 126.08    67771 STAR LK7 110 667 1.1449 125.94

BUSES WITH VOLTAGE LESS THAN 0.9500:
X------ BUS -----X AREA V(PU)  V(KV)    X------ BUS -----X AREA V(PU)  V(KV)
60149 MINVALT4 230 600 0.9453 217.42    60150 MNVLTAP4 230 600 0.9454 217.44
60156 PYNSVIL7 115 600 0.9478 109.00    60189 BLK DOG4 230 600 0.9217 211.98
60898 GLENCOE  115 600 0.8855 101.83    62001 BENSON 7 115 626 0.9430 108.44
62005 KERKHOT7 115 600 0.9299 106.94    62006 KERKHO 7 115 626 0.9361 107.66
62425 WILLMAR7 115 618 0.8945 102.87    62980 MCLEOD 4 230 618 0.8888 204.42
62981 MCLEOD 7 115 618 0.8919 102.57    62982 HTCHMN 7 115 618 0.8947 102.89
62983 HUTCH3M7 115 618 0.8941 102.82    63050 WILLMAR4 230 618 0.9330 214.59
63054 PANTHER4 230 600 0.9008 207.17    66789 BEMIDJIT 115 626 0.9332 107.32
69515 HLSBORO5 161 680 0.9291 149.59

 BRANCH CURRENT LOADINGS ABOVE 100.0 % OF RATING SET A
+        _______
X-------FROM BUS-------X  X--------TO BUS--------X       CURRENT(MVA)
  BUS    NAME  BSKV AREA    BUS    NAME  BSKV AREA CKT LOADING  RATING PERCENT
60107  W FARIB7 115  600  60265* LOON TP7 115  600  1    257.8   119.0   216.7
60108  WILMART3 345  600  60331* LKFLDXL3 345  600  1    895.2   574.0   156.0
60150  MNVLTAP4 230  600  63054* PANTHER4 230  600  1    424.2   388.0   109.3
60150* MNVLTAP4 230  600  66550  GRANITF4 230  652  1    439.4   318.0   138.2
60156  PYNSVIL7 115  600  62425* WILLMAR7 115  618  1    142.5    77.0   185.1
60197* CHIS CO2 500  600  60198  CHIS-N 2 500  600  1   1936.3  1732.0   111.8
60286* NOBLES 3 345  600  60287  NOBLES 7 115  600  1    468.6   448.0   104.6
60357* MAYNARD7 115  600  62005  KERKHOT7 115  600  1     80.1    78.0   102.7
62005* KERKHOT7 115  600  62425  WILLMAR7 115  618  1    112.7    77.0   146.3
62234  LKMARN 7 115  600  62865* AIRTECH7 115  600  1    156.2   139.0   112.4
62980  MCLEOD 4 230  618  63054* PANTHER4 230  600  1    369.8   319.0   115.9
63801* CBLUFFS5 161  635  63817  BUNGE 5  161  635  1    197.1   192.0   102.7
1*** 304-so03aa.uyvV4V4-xo3-nt                                Page   5

64203  NW FTDG5 161  635  64230* POMEROY5 161  635  1    208.4   136.0   153.2
64239* FRANKLN5 161  635  64285  BUTLER 5 161  635  1    242.6   181.0   134.1
64256  UNIONTP5 161  635  64285* BUTLER 5 161  635  1    235.3   181.0   130.0
66565* SIOUXCY4 230  652  66567  DENISON4 230  652  1    261.7   240.0   109.0

 TRANSFORMER MVA LOADINGS ABOVE 100.0 % OF RATING SET A
+            ___
X-------FROM BUS-------X  X--------TO BUS--------X       MVA      MVA
  BUS    NAME  BSKV AREA    BUS    NAME  BSKV AREA CKT LOADING  RATING PERCENT
60286* NOBLES 3 345  600  60287  NOBLES 7 115  600  1    482.6   448.0   107.7

--------------------------------------------------------------------------------
          FAST SWITCH CAPACITOR PERFORMANCE:

     BUSNUM  BUS NAME    # CAPS   SIZE    SSON    FINAL   AVAIL
      63056  BALTAJCT       3      60       0       0       3
      60305  EAU CLA5       4      89       4       4       0
      60234  PARKERS7       3      80       3       3       0
      60116  PRASWCP7      12      40       1       1      11
      63047  RAMSEY 4       2      30       0       0       2
      60168  ROSSWCP4       2      30       0       0       2
      60167  RUNSWCP4       6      30       1       1       5
      60172  SHYSWCP7       5      40       1       1       4
      60129  SPLT RK7       2      80       1       2       0


--------------------------------------------------------------------------------
          INITIAL **NORMAL** RELAY MARGINS/IMPEDENCES (ZRE/ZIM):     VIOLATION *
```

```
     B10T : RELAY MARGIN AT TIOGA IS            :    338 %   -0.6430    0.1094 N
     G82R : RELAY MARGIN AT RUGBY IS            :    999 %    1.9205   -1.2216 N
     L20D : RELAY MARGIN AT DRAYTON IS          :    999 %   -0.5325    0.0632 N
     R50M : RELAY MARGIN AT MORANVILLE IS       :    879 %   -0.7104    0.0617 N
     F3M  : RELAY MARGIN AT INT.FALLS IS        :    315 %   -0.6375    0.1464 N
     D602F: RELAY MARGIN AT FORBES IS           :    206 %   -0.0482    0.0194 N
     D602F: RELAY MARGIN AT DORSEY IS           :    325 %    0.0538    0.0136 N
     D602F: RELAY MARGIN AT FORBES (DCAR) IS    :    507 %    0.0000    0.0000 N
--------------------------------------------------------------------------------
          MINIMUM TRANSIENT RELAY MARGINS: START TIME:  0.27500 SEC, VIOLATION *

     B10T : RELAY MARGIN AT TIOGA IS            :    324 %  AT TIME=   1.39161 N
     G82R : RELAY MARGIN AT RUGBY IS            :    999 %  AT TIME=   0.00000 N
     L20D : RELAY MARGIN AT DRAYTON IS          :    999 %  AT TIME=   0.00000 N
     R50M : RELAY MARGIN AT MORANVILLE IS       :    860 %  AT TIME=   1.36661 N
     F3M  : RELAY MARGIN AT INT. FALLS IS       :    309 %  AT TIME=   1.36661 N
     D602F: RELAY MARGIN AT FORBES IS           :    200 %  AT TIME=   1.34161 N
     D602F: RELAY MARGIN AT DORSEY IS           :    316 %  AT TIME=   1.34161 N
     D602F: RELAY MARGIN AT FORBES (DCAR)       :    483 %  AT TIME=   0.89997 N
--------------------------------------------------------------------------------
          OH - MH TRANSIENT PERFORMANCE:

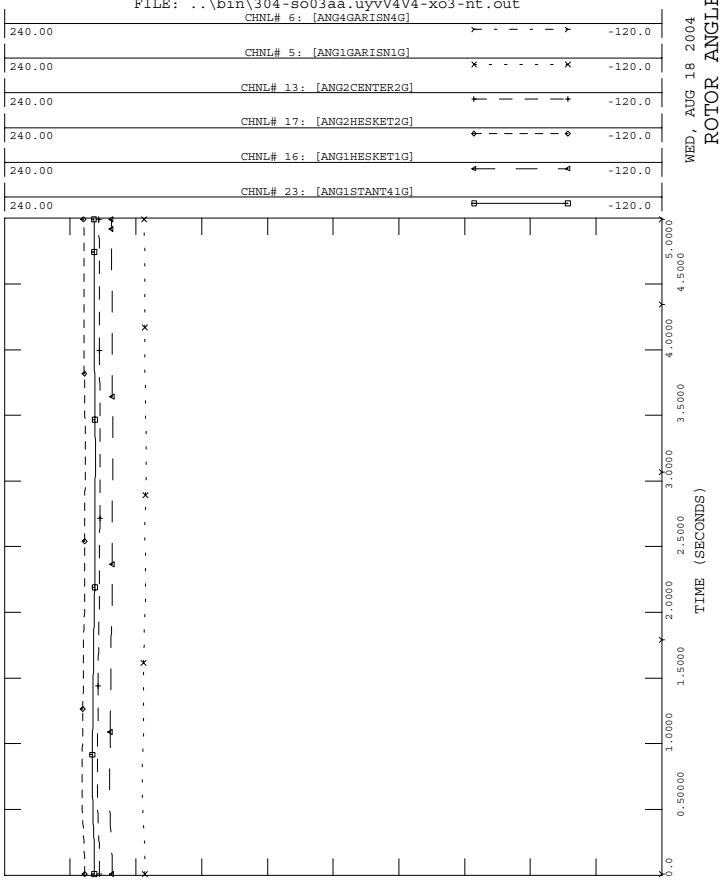
     OH-MH: INITIAL OH-MH POWER, KENORA ANGLE   :  -197.3 MW        91.7 DEG
     OH-MH: MAX +  MW CHANGE @TIME, DLT ANGLE   :     1.0 MW  @  2.84155,   -0.4
     OH-MH: MAX -  MW CHANGE @TIME, DLT ANGLE   :     1.7 MW  @  1.93325,    0.3
     OH-MH: MAX ANGLE CHANGE @TIME, DLT POWER   :     1.3 DEG @  1.18329,   -0.2
--------------------------------------------------------------------------------
          RELAY MARGINS/IMPEDANCES (ZRE,ZIM)/FLOWS AT TIME=   5.00815

     B10T : RELAY MARGIN AT TIOGA IS            :    337 %   -0.6421    0.1086
     G82R : RELAY MARGIN AT RUGBY IS            :    999 %    1.9252   -1.2454
     L20D : RELAY MARGIN AT DRAYTON IS          :    999 %   -0.5313    0.0631
     R50M : RELAY MARGIN AT MORANVILLE IS       :    879 %   -0.7101    0.0617
     F3M  : RELAY MARGIN AT INT. FALLS IS       :    315 %   -0.6373    0.1469
     D602F: RELAY MARGIN AT FORBES IS           :    206 %   -0.0482    0.0194
     D602F: RELAY MARGIN AT DORSEY IS           :    325 %    0.0538    0.0136
     D602F: RELAY MARGIN AT FORBES (DCAR) IS    :    507 %   -0.0281    0.0032
                            ---------------
     B10T : BOUNDARY DAM PHASE SHIFT FLOW       :   168.0 MVA ( SOUTH )
     F3M  : INTERNATIONAL FALLS PH. SHIFT FLOW  :   153.8 MVA ( SOUTH )
     MH-OH: FINAL OH-MH POWER, KENORA ANGLE     :  -197.4 MW        92.1 DEG
     EWTW : FINAL OH EAST-WEST TIES FLOW        :  -203.1 MW
--------------------------------------------------------------------------------
          USING **NORMAL** RELAYS SETTINGS AS FOLLOWS:

 B10T@TIOGA  : R1= 0.030 X1= 0.348 R2=-0.030 X2=-0.348 P1/2/3=0.223 0.283 0.350
 G82R@RUGBY  : A=  81.9 IN1= 0.250 IN2= 0.100 B=  81.9 IN3= -0.200 IN4= -0.350
 L20D@DRAYTON: A=  80.0 IN1= 0.175 IN2= 0.135 B=  80.0 IN3= -0.095 IN4= -0.136
 R50M@MORANVL: A=  76.3 IN1= 0.345 IN2= 0.245 B=  76.3 IN3= -0.198 IN4= -0.258
 F3M@INT.FALL: A=  76.3 IN1= 0.480 IN2= 0.300 B=  76.3 IN3= -0.200 IN4= -0.350
 D602F@DORSEY: A=  85.0 IN1= 0.041 IN2= 0.026 B=  85.0 IN3= -0.023 IN4= -0.036
 D602F@DORSEY: A=  85.0 IN1= 0.034 IN2= 0.026 B=  85.0 IN3= -0.024 IN4= -0.033
 D602F-DCAR  : ANGLE= 170.0 DCAO= -39.700 DCAI= -49.450
 K21W-DPDARE : XPs=  25.0 XPt= 150.0 XAt=   5.0 YPs=  25.0 YPt=  50.0 YAt=  20.0
 K22W-DPDARE : XPs=  25.0 XPt= 150.0 XAt=   5.0 YPs=  25.0 YPt=  50.0 YAt=  20.0
--------------------------------------------------------------------------------
```

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

WED, AUG 18 2004 13:55
ROTOR ANGLES 2



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6 CYCLE 3 PHASE FAULT AT GI-0304 161
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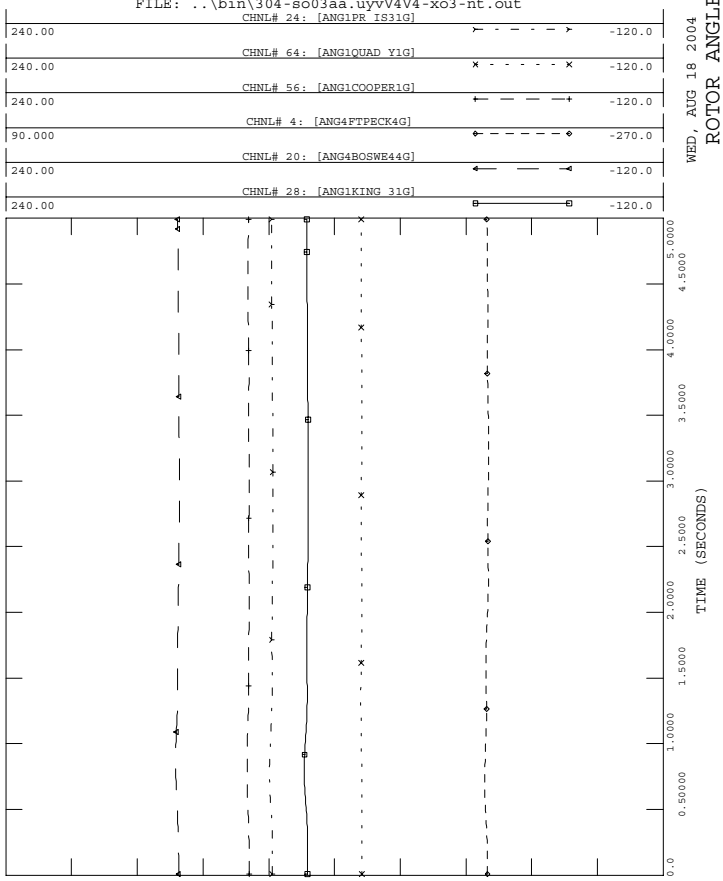
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

WED, AUG 18 2004 13:55
ROTOR ANGLES 4



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CLEAR THE GI-0304 - SPENCER 161 KV LINE
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WED, AUG 18 2004 13:55
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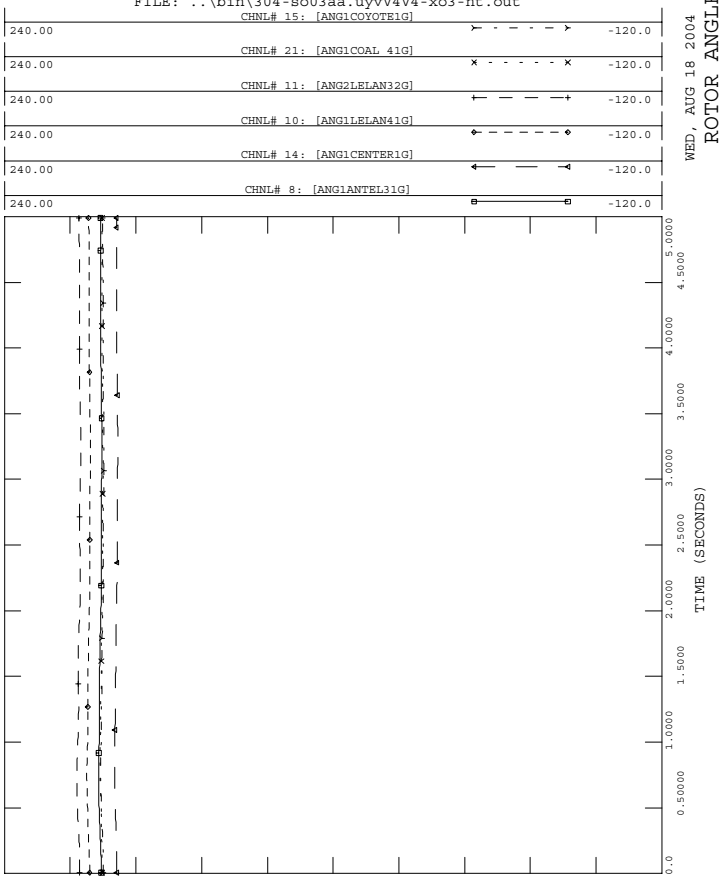

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CLEAR THE GI-0304 - SPENCER 161 KV LINE
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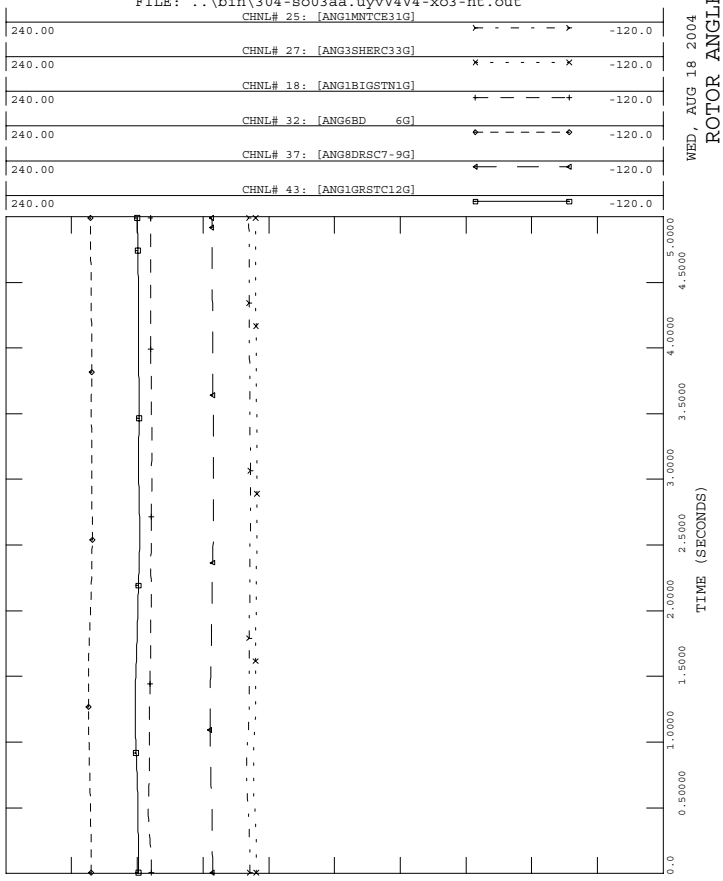
WED, AUG 18 2004 13:55
ROTOR ANGLES 3



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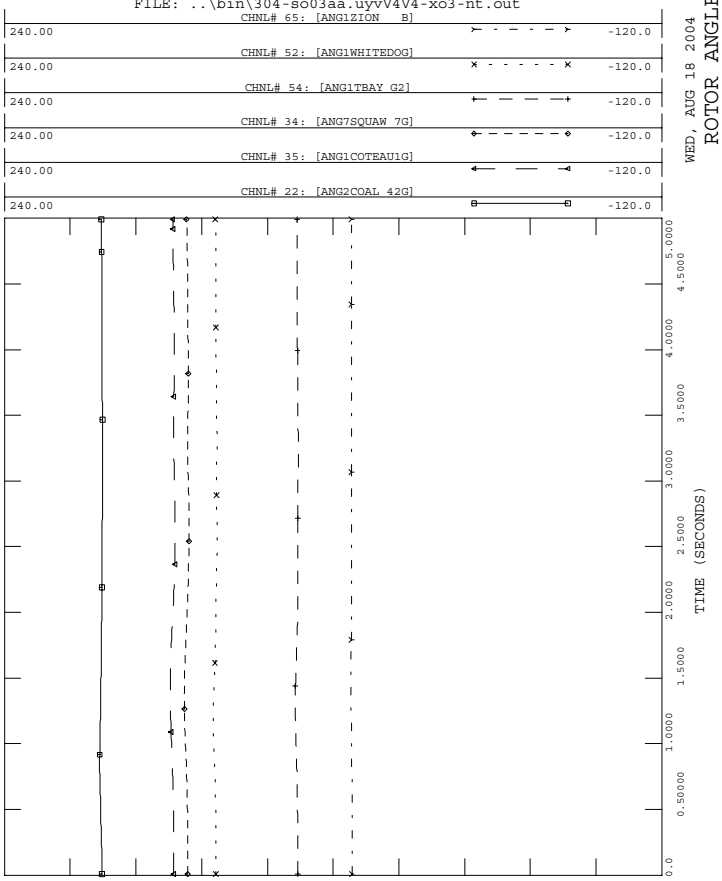
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

WED, AUG 18 2004 13:55
ROTOR ANGLES 6



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CLEAR THE GI-0304 - SPENCER 161 KV LINE
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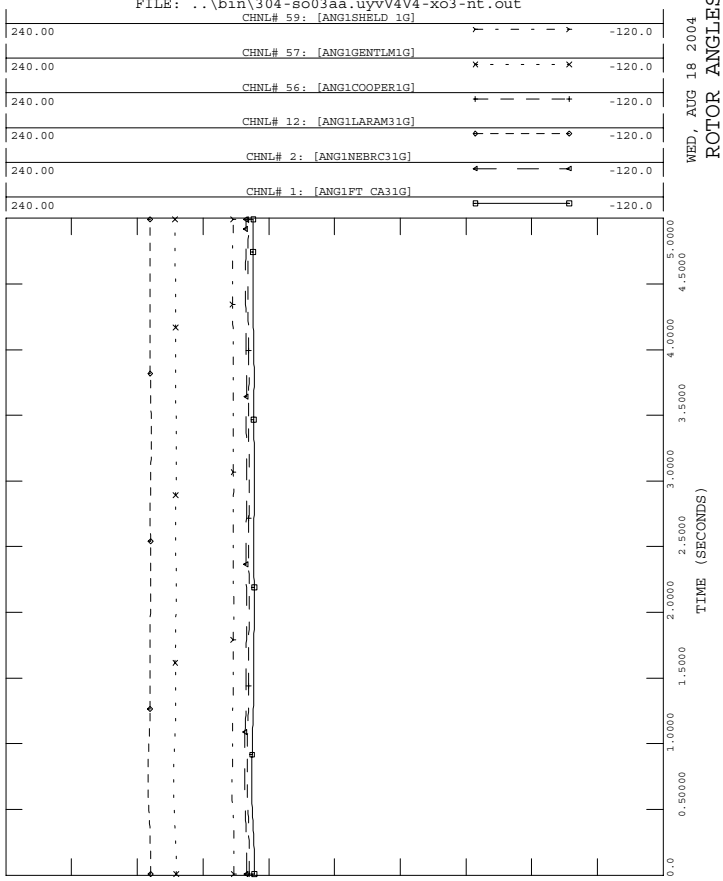
WED, AUG 18 2004 13:55
ROTOR ANGLES NB



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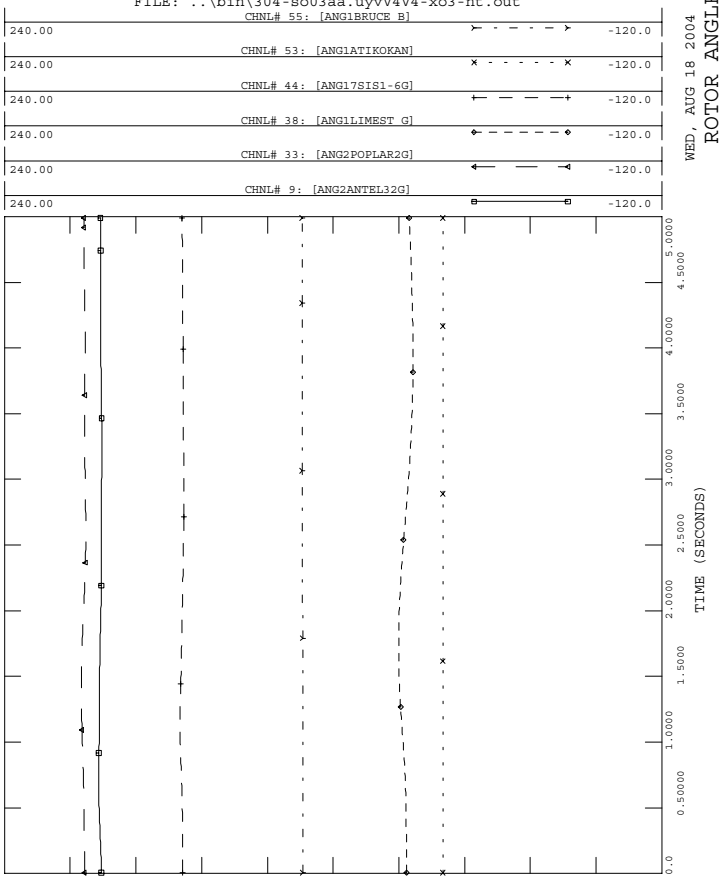
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

WED, AUG 18 2004 13:55
ROTOR ANGLES 5



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6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
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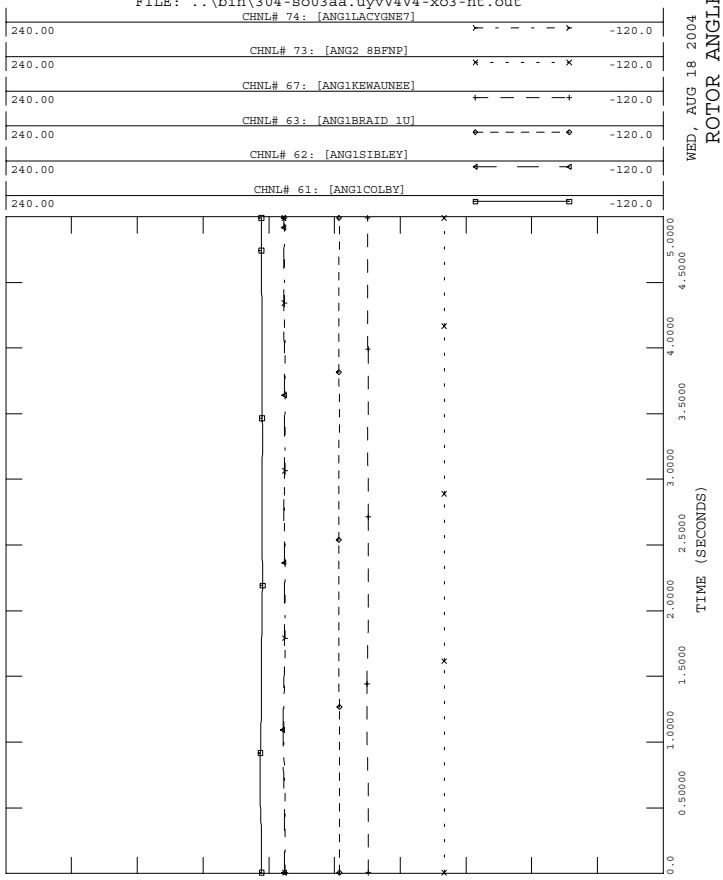
WED, AUG 18 2004 13:55
ROTOR ANGLES 7



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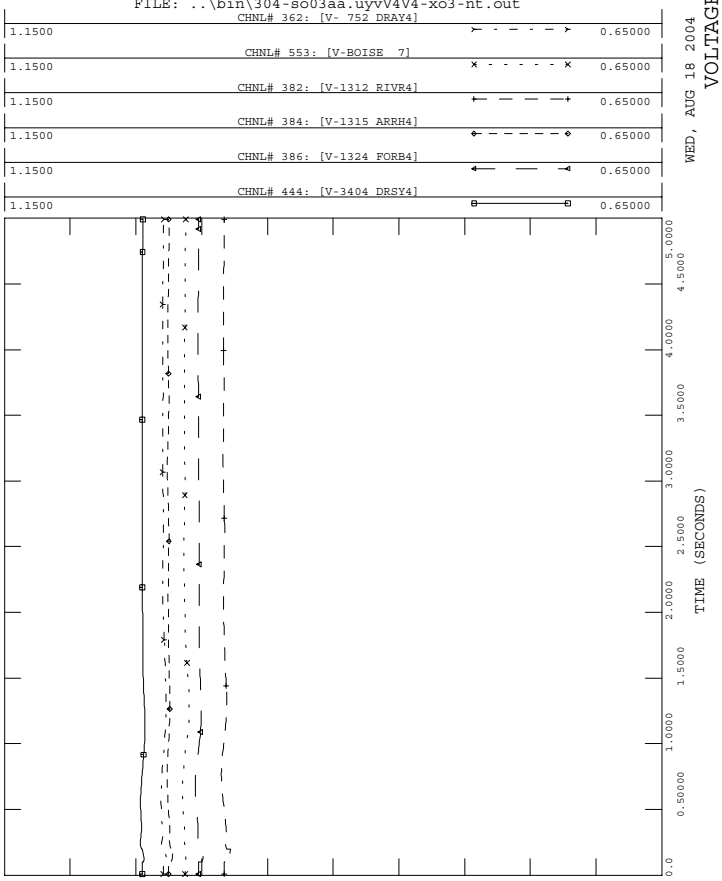
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

WED, AUG 18 2004 13:55
VOLTAGES 1



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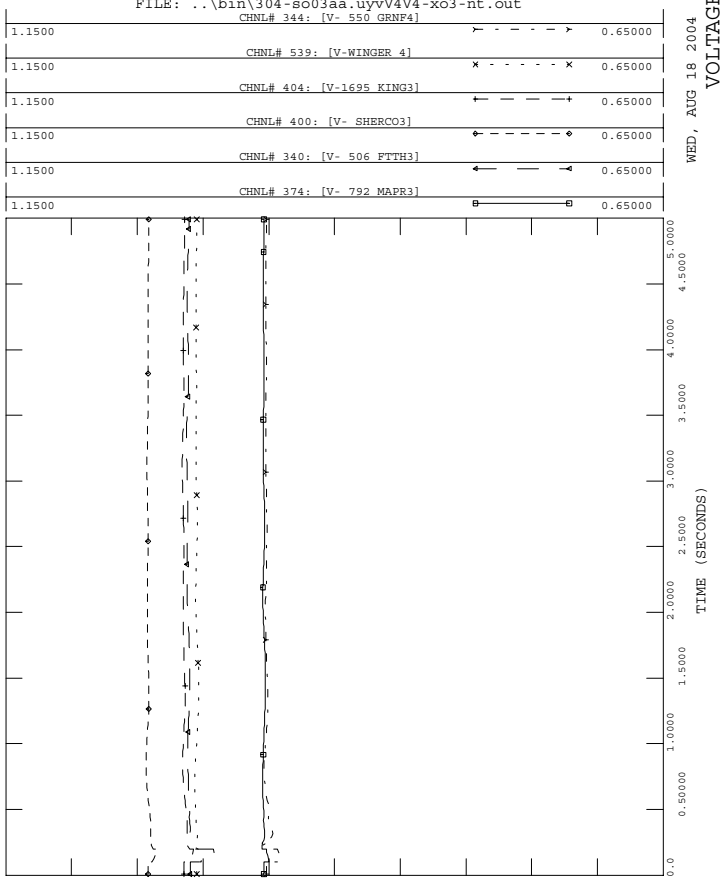
WED, AUG 18 2004 13:55
VOLTAGES 3



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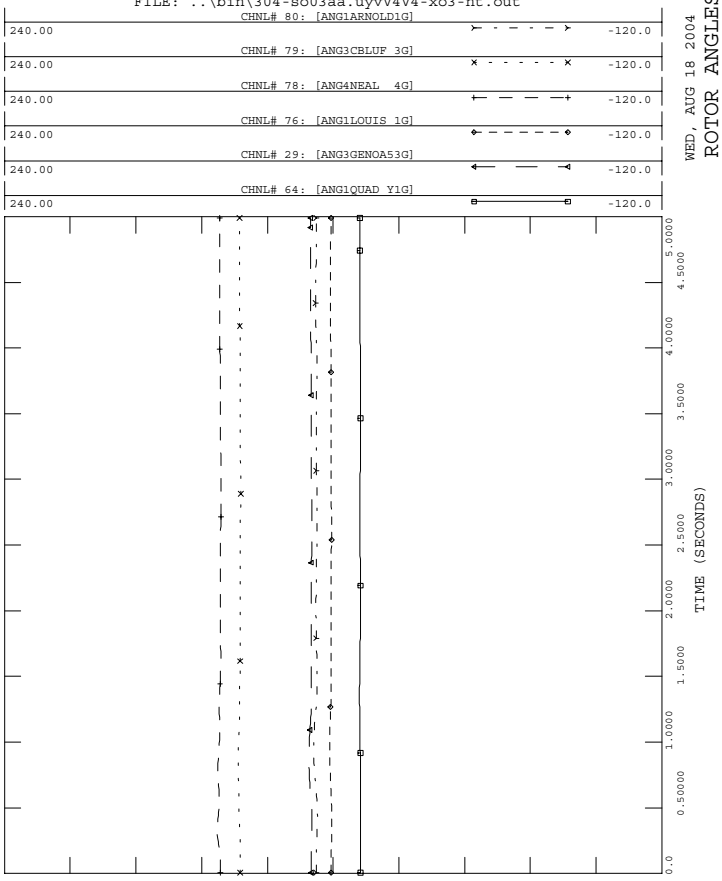
WED, AUG 18 2004 13:55
ROTOR ANGLES IA



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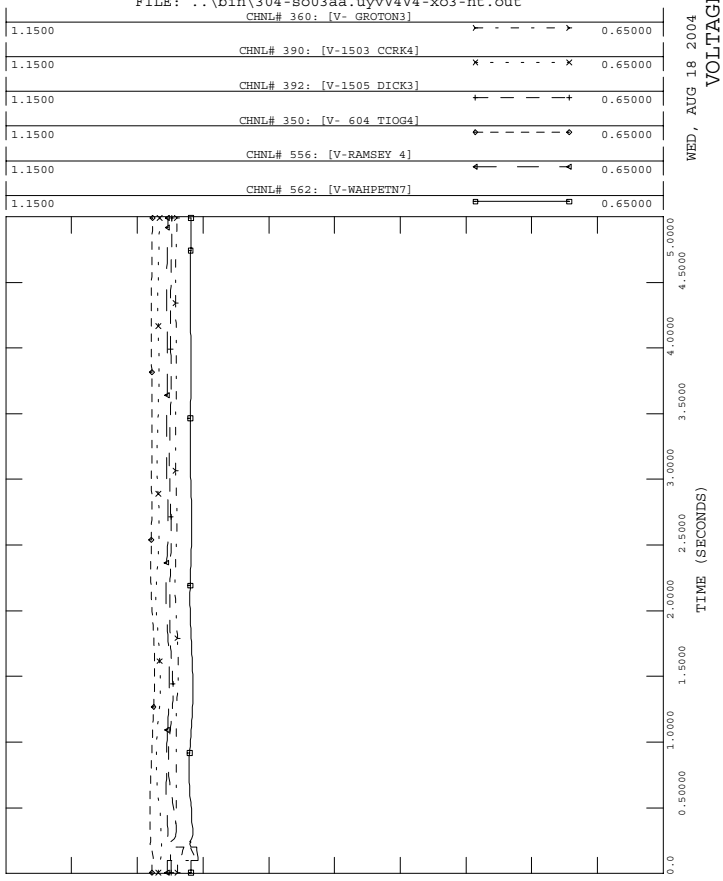
WED, AUG 18 2004 13:55
VOLTAGES 2



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CLEAR THE GI-0304 - SPENCER 161 KV LINE
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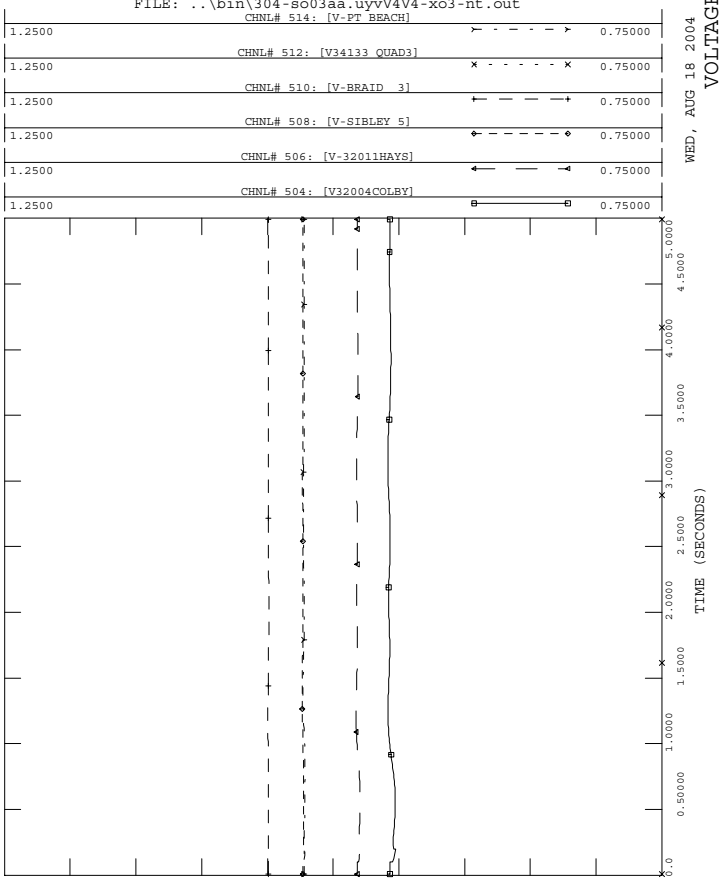
VOLTAGES 5



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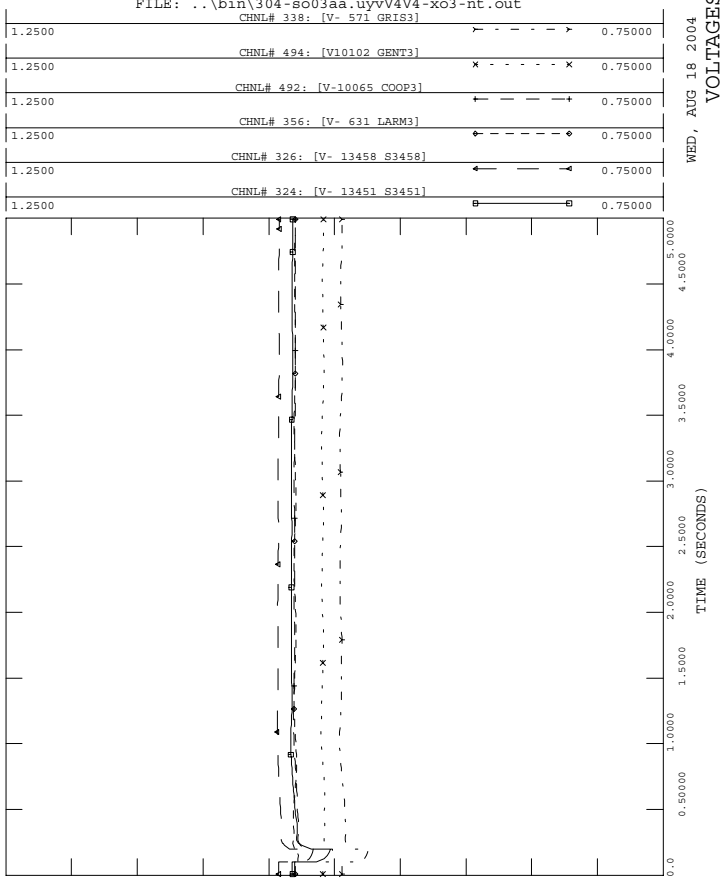
WED, AUG 18 2004 13:55
VOLTAGES NB



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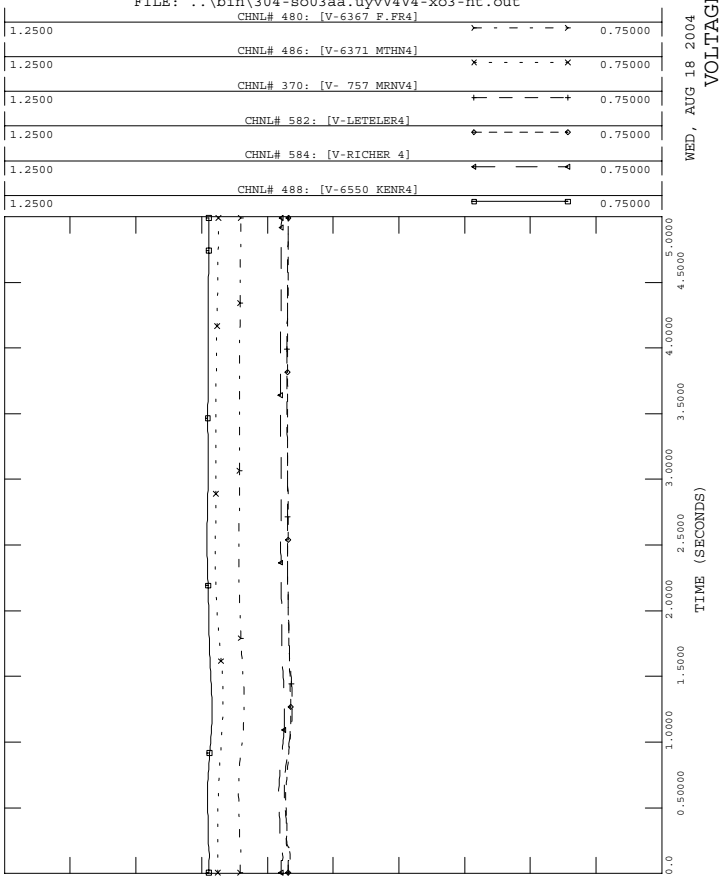
VOLTAGES 4



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CLEAR THE GI-0304 - SPENCER 161 KV LINE
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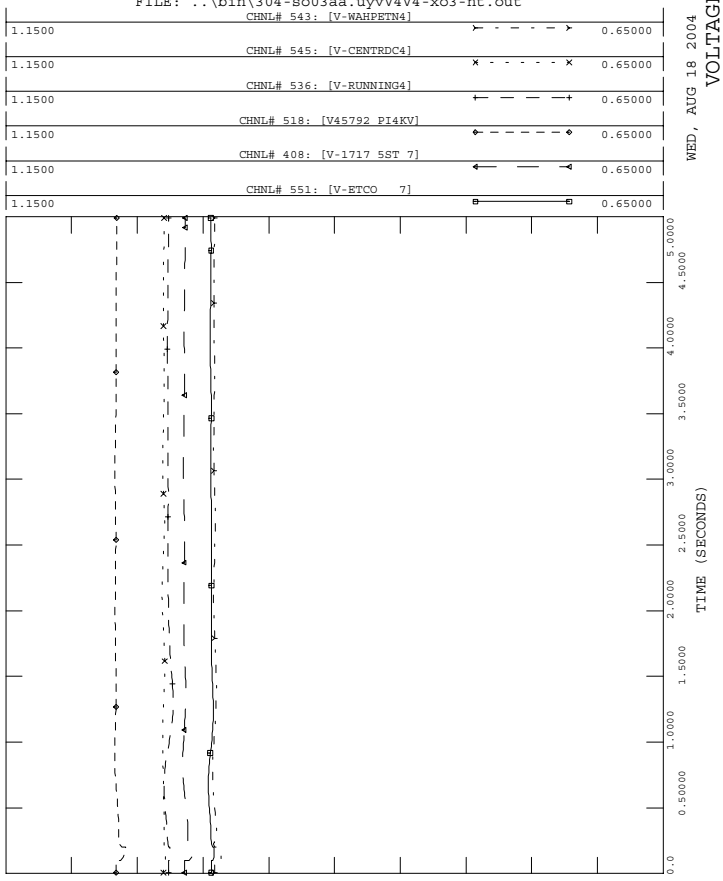
WED, AUG 18 2004 13:55
VOLTAGES 6



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CLEAR THE GI-0304 - SPENCER 161 KV LINE
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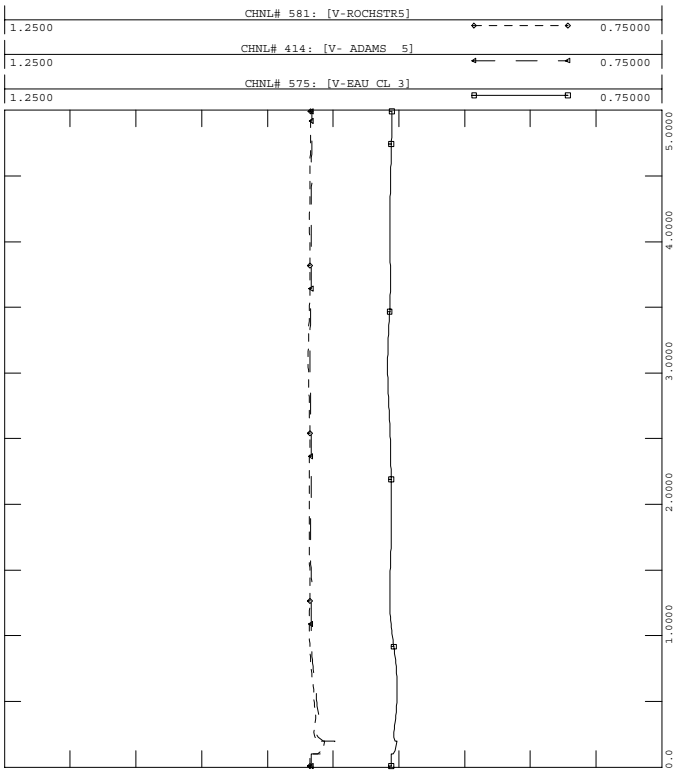
WED, AUG 18 2004 13:55
WISCONSIN VOLTAGES



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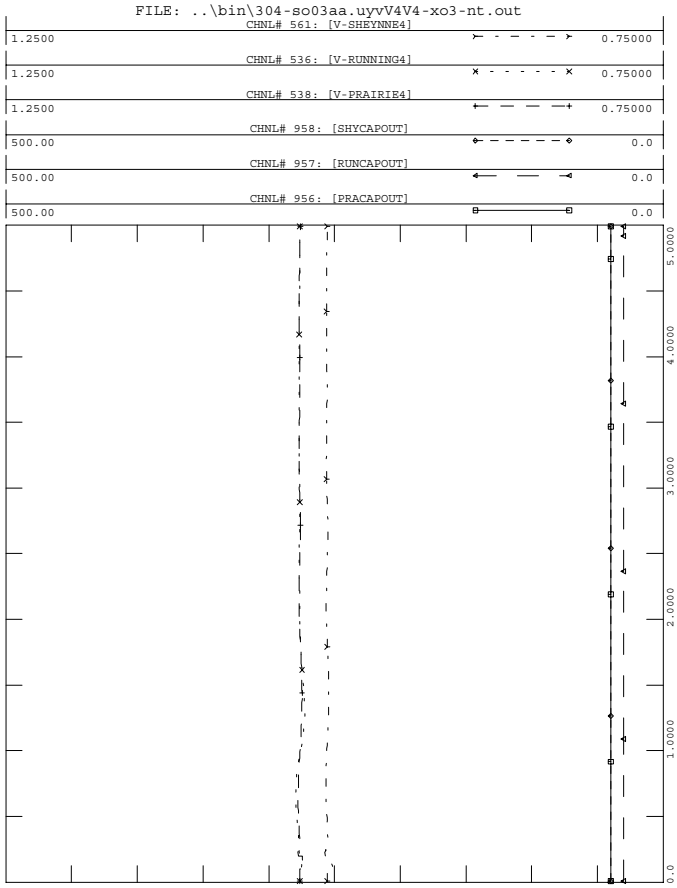
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

WED, AUG 18 2004 13:55
FAST SW CAP OUT 1



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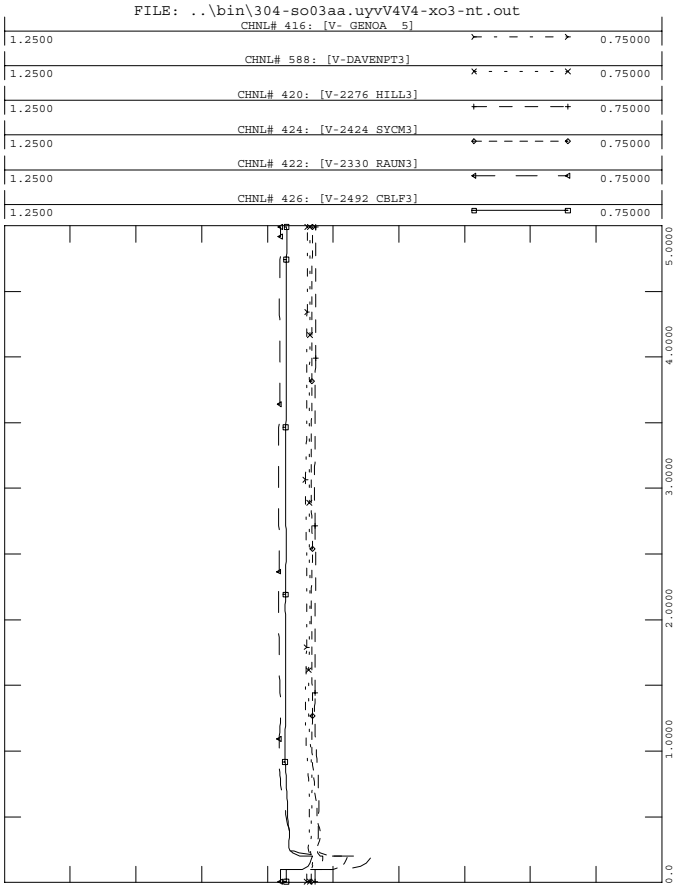
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

WED, AUG 18 2004 13:55
VOLTAGES IA



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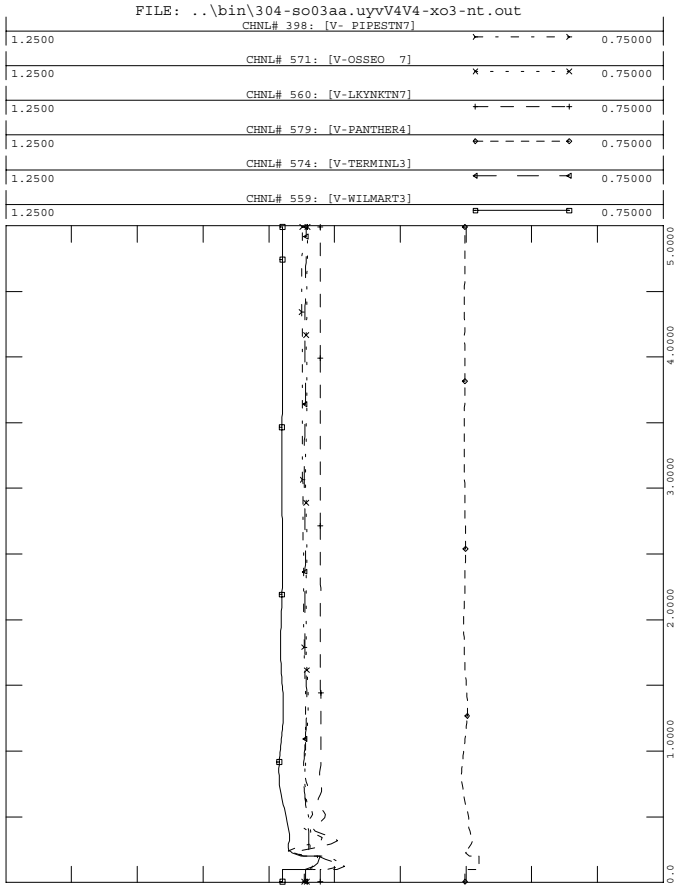
WED, AUG 18 2004 13:55
TC VOLTAGES



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CLEAR THE GI-0304 - SPENCER 161 KV LINE
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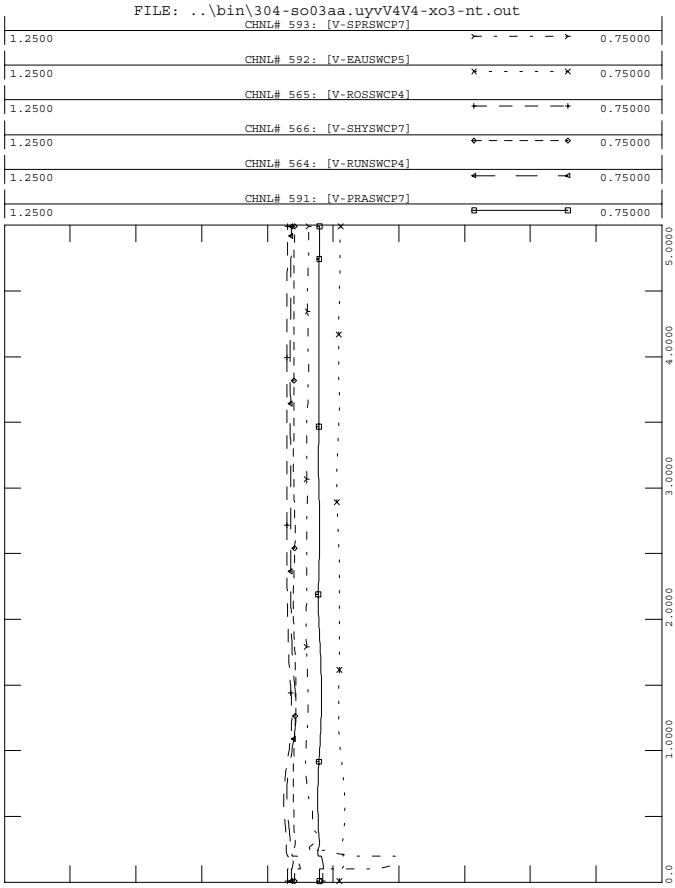
WED, AUG 18 2004 13:55

FAST SW CAP VOLTAGES



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CLEAR THE GI-0304 - SPENCER 161 KV LINE
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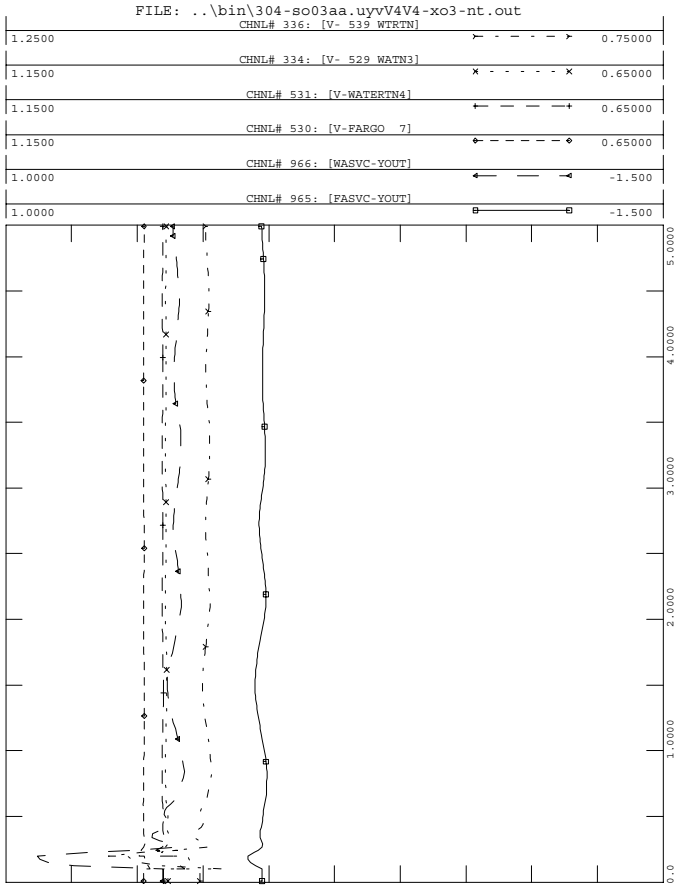
WED, AUG 18 2004 13:55

FARGO/WATERTOWN SVS



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CLEAR THE GI-0304 - SPENCER 161 KV LINE
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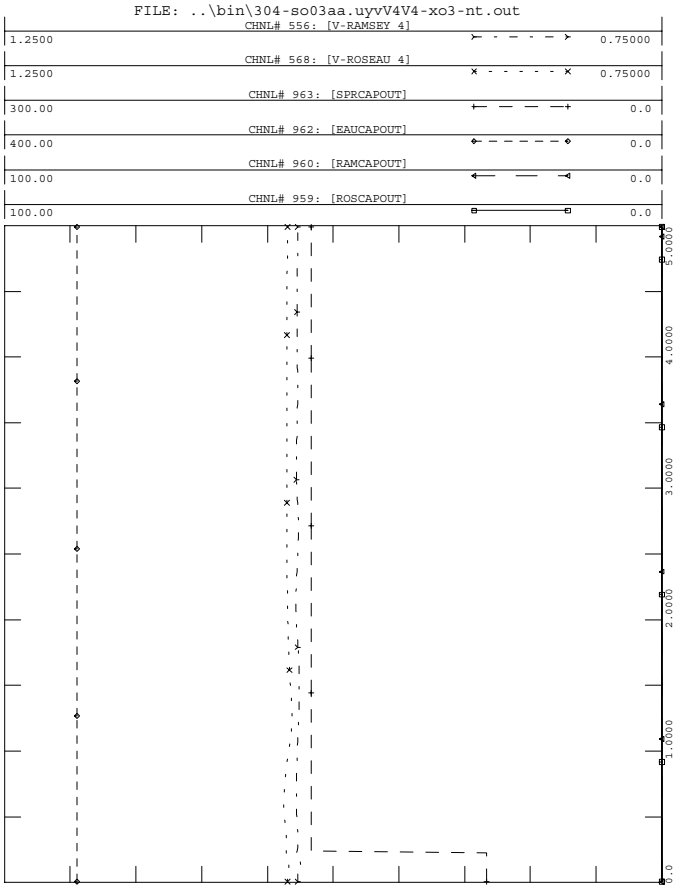
WED, AUG 18 2004 13:55

FAST SW CAP OUT 2



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CLEAR THE GI-0304 - SPENCER 161 KV LINE
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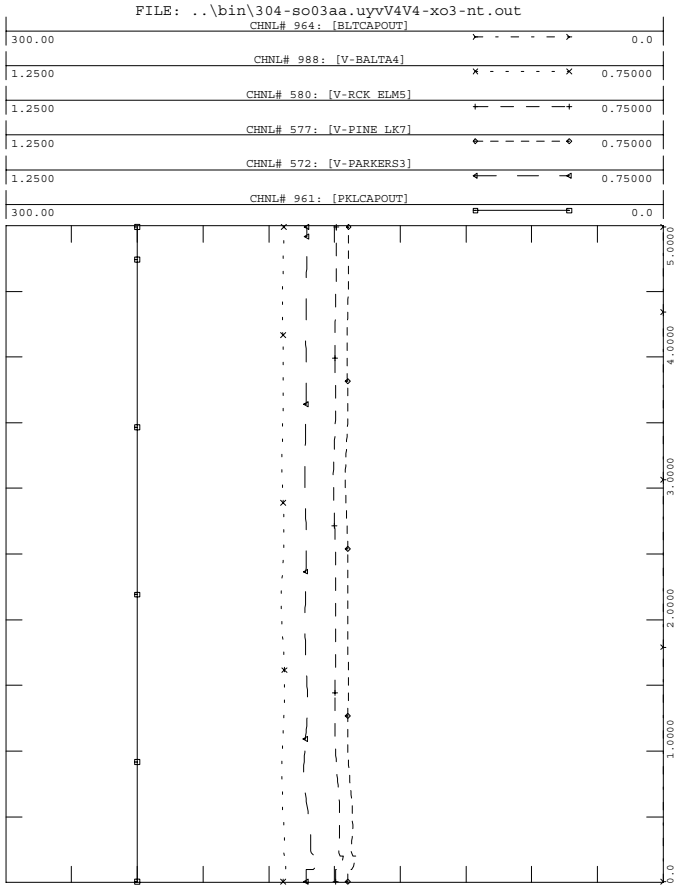
WED, AUG 18 2004 13:55

FAST SW CAP VOLTAGES 2



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CLEAR THE GI-0304 - SPENCER 161 KV LINE
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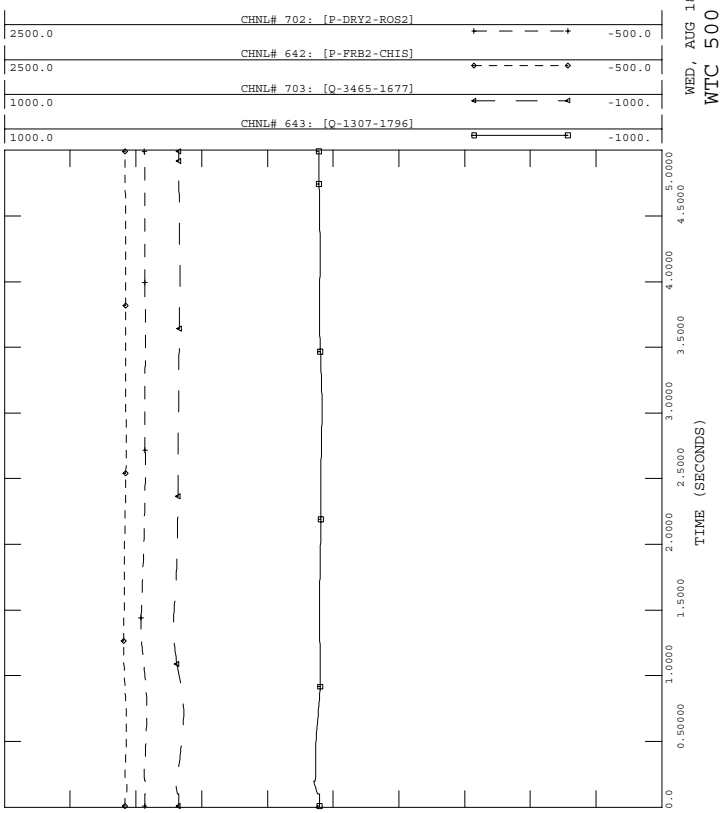
WED, AUG 18 2004 13:55
WTC 500 KV FLOWS



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
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6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
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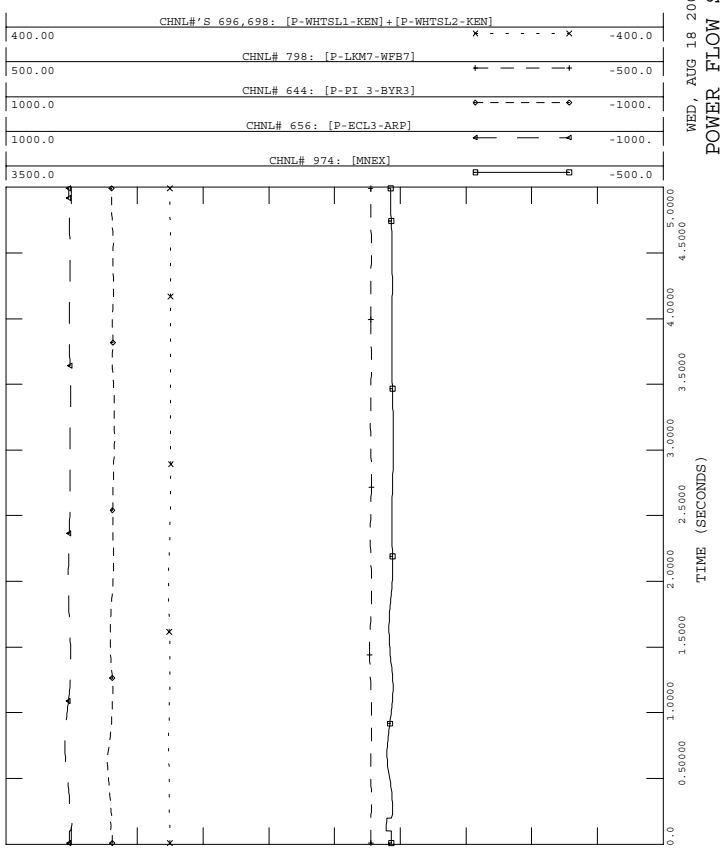
WED, AUG 18 2004 13:55
POWER FLOW SUMS 2



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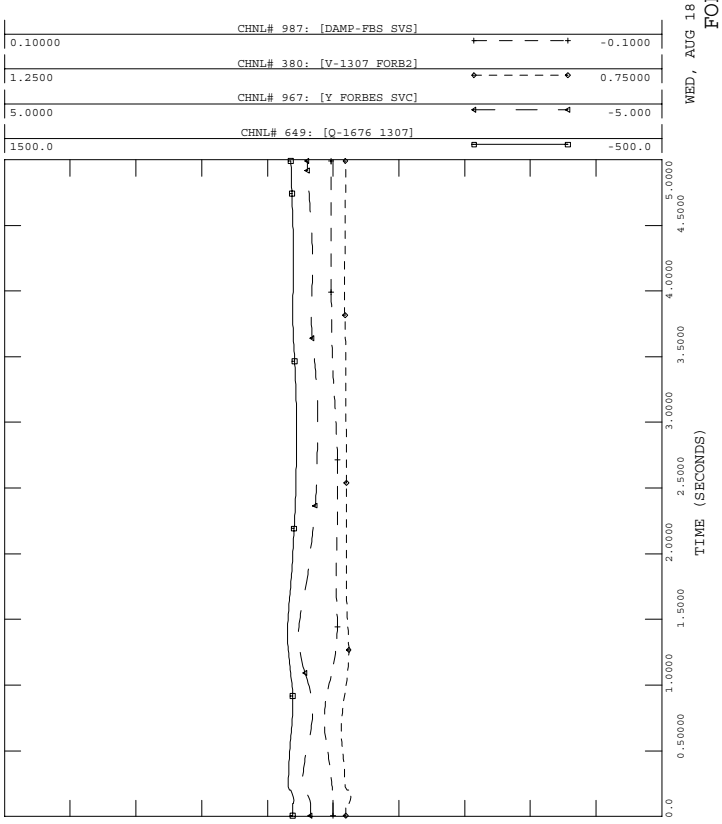
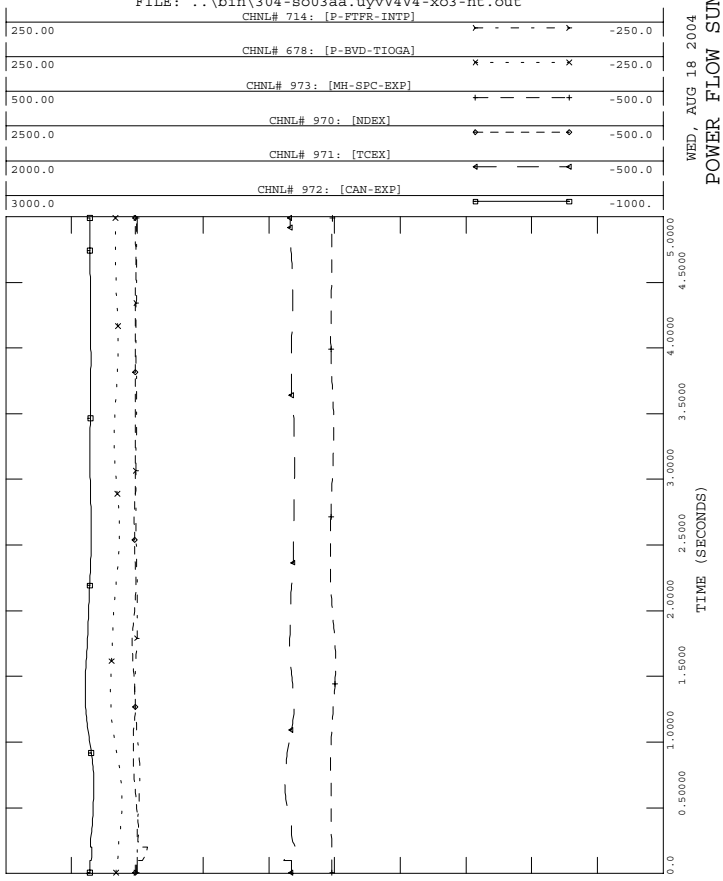
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

WED, AUG 18 2004 13:55
FORBES SVS



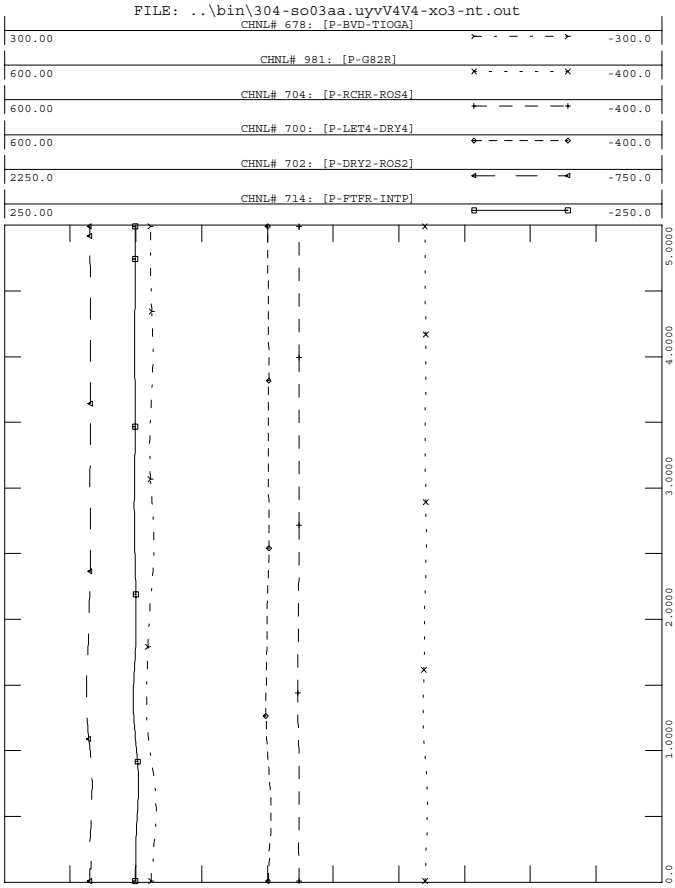
304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

WED, AUG 18 2004 13:55
POWER FLOW SUMS 1



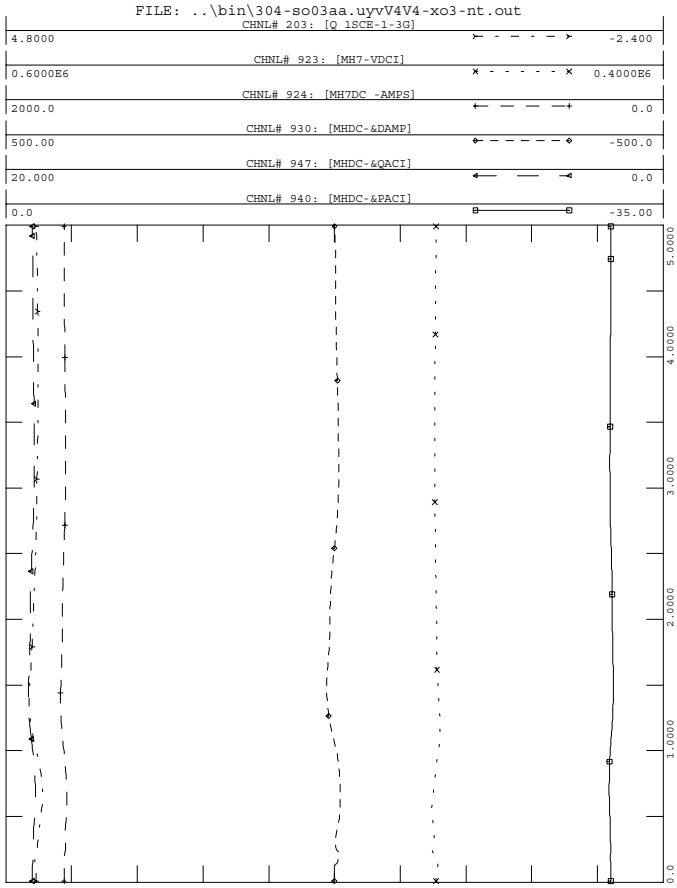
304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

WED, AUG 18 2004 13:55
CAN. TIE FLOWS



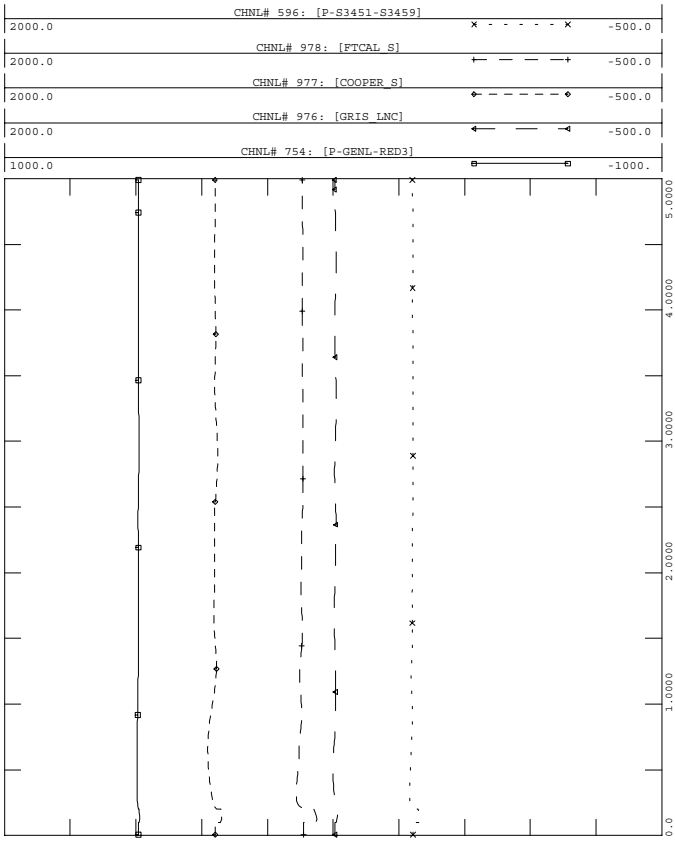
304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

WED, AUG 18 2004 13:55
MH DC PARAMETERS



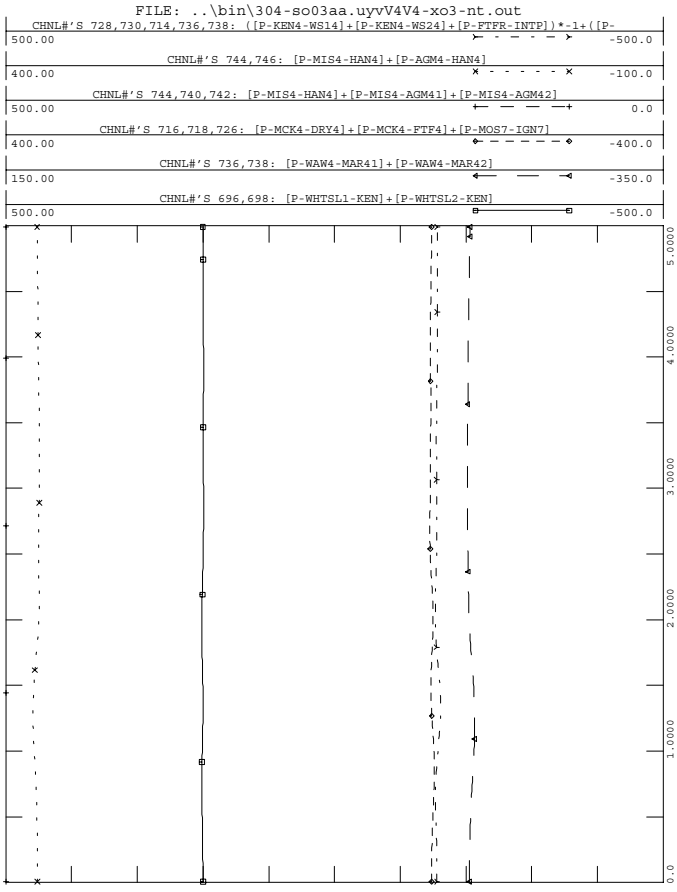
304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

WED, AUG 18 2004 13:55
POWER FLOW SUM 3



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

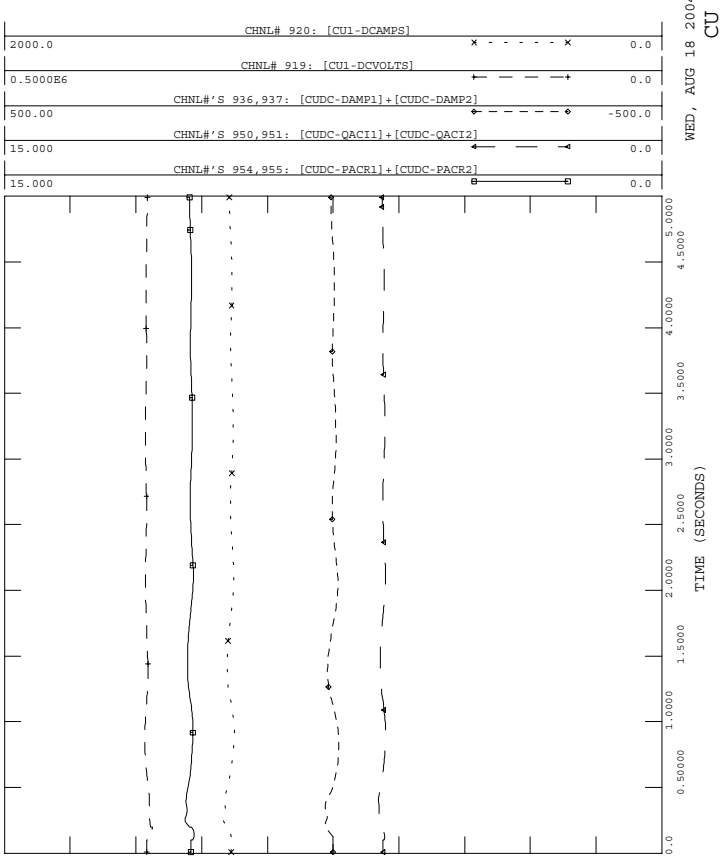
WED, AUG 18 2004 13:55
OH TIE FLOWS



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

WED, AUG 18 2004 13:55

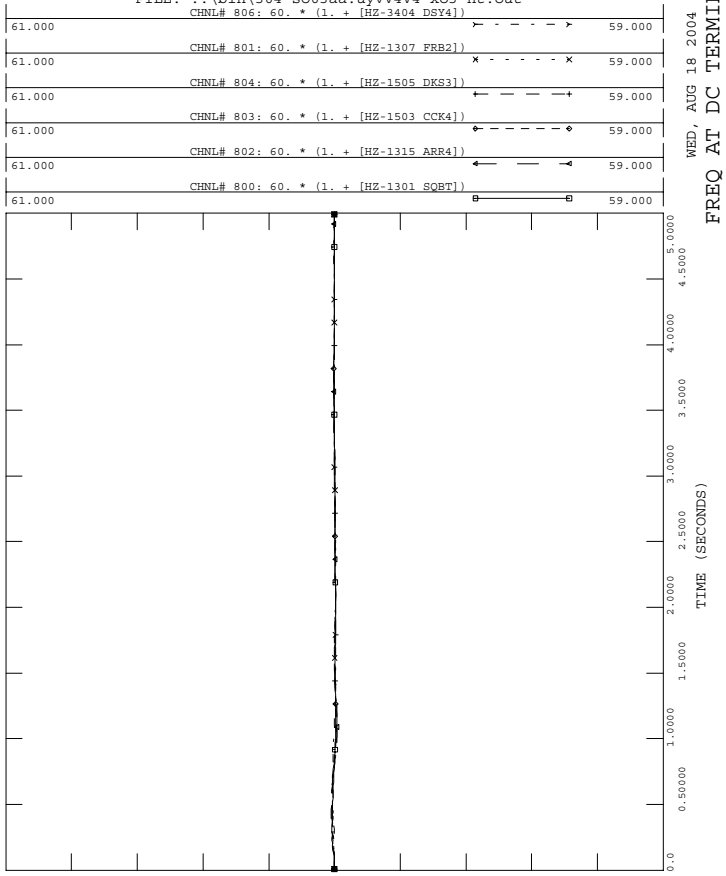
CU DC #1



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

WED, AUG 18 2004 13:55

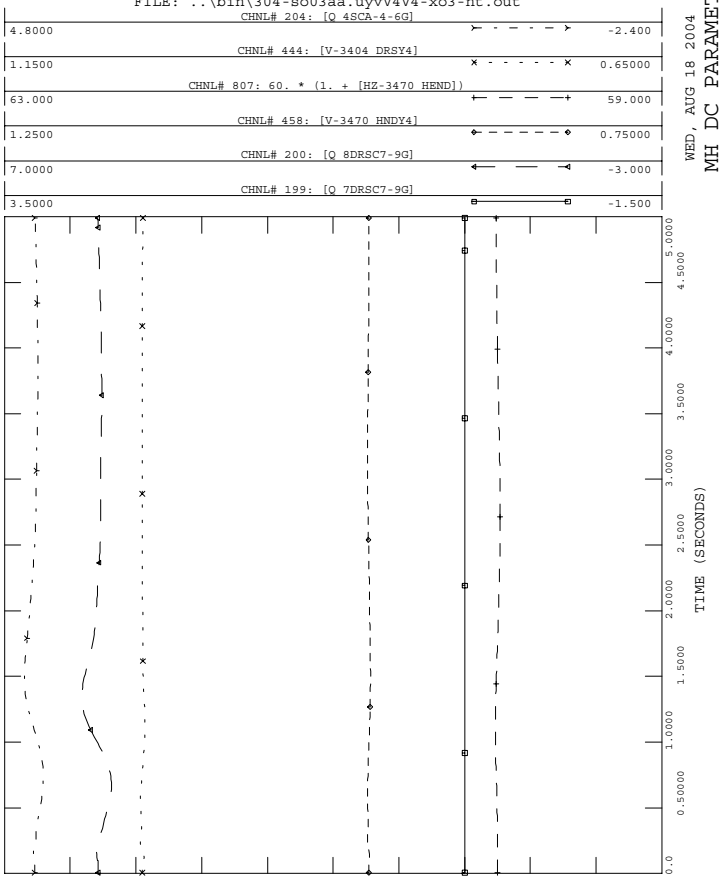
FREQ AT DC TERMINALS



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

WED, AUG 18 2004 13:55

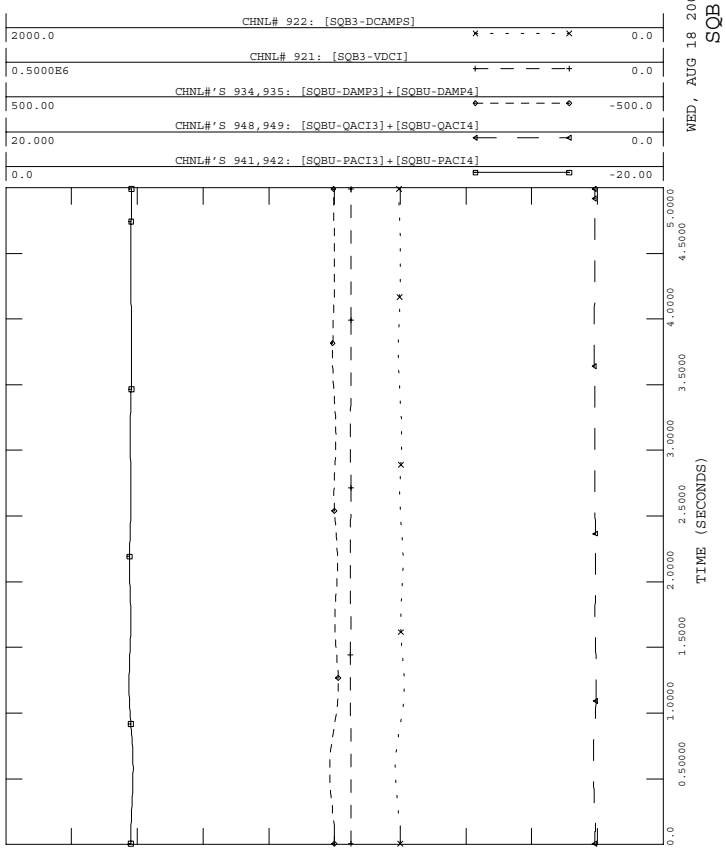
MH DC PARAMETERS



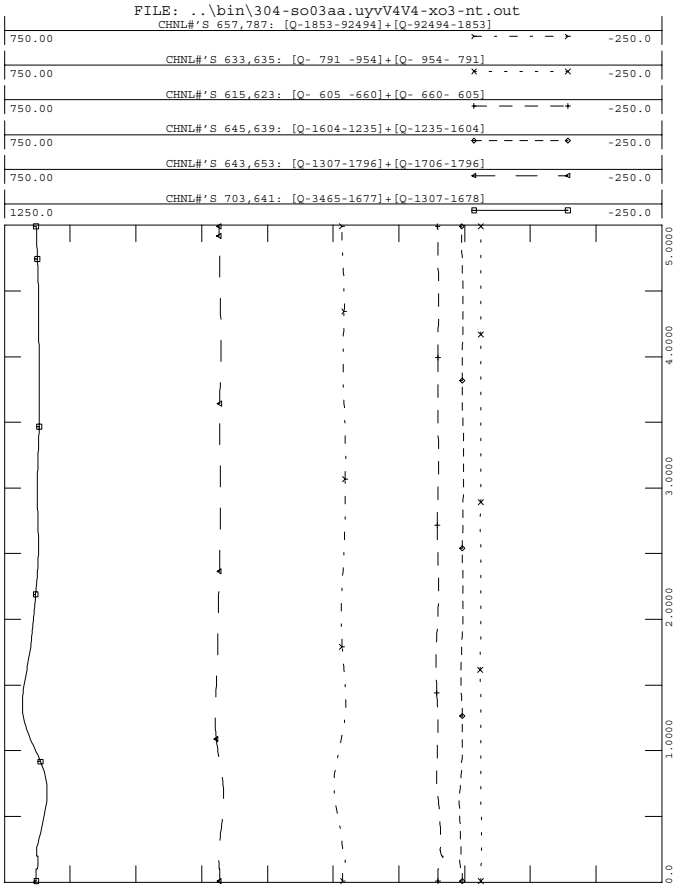
304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

WED, AUG 18 2004 13:55

SQB DC #3



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

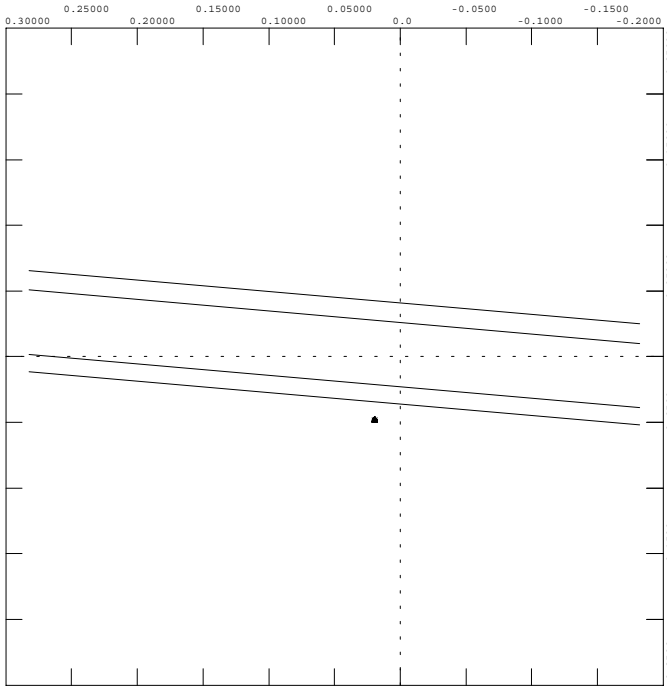


WED, AUG 18 2004 13:55
VAR LOSSES

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE

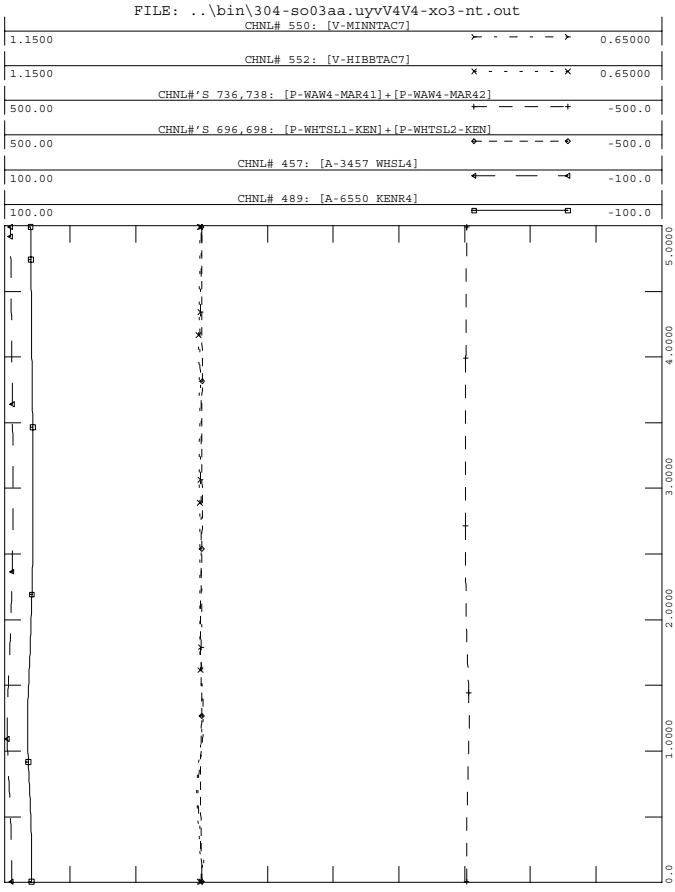
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 824: [X-FRB2-ROS2]



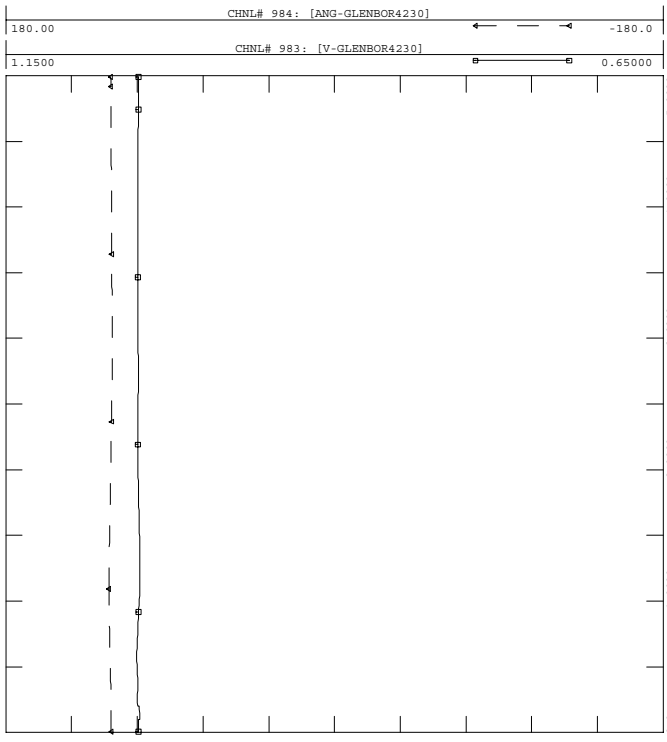
WED, AUG 18 2004 13:55
D602F-FORBES (612)

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out



WED, AUG 18 2004 13:55
VOLTAGES, ANGLES

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

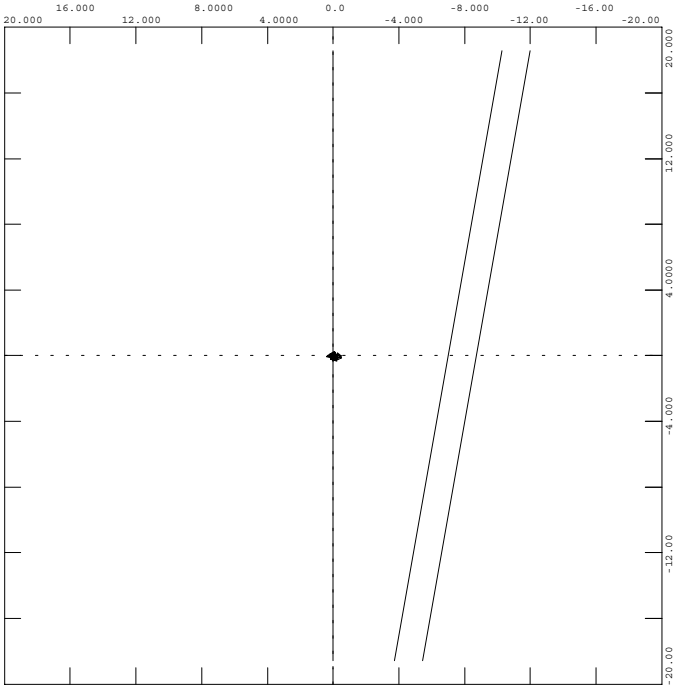


WED, AUG 18 2004 13:55
VOLTAGES, ANGLES

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 969: [DCAR-B]

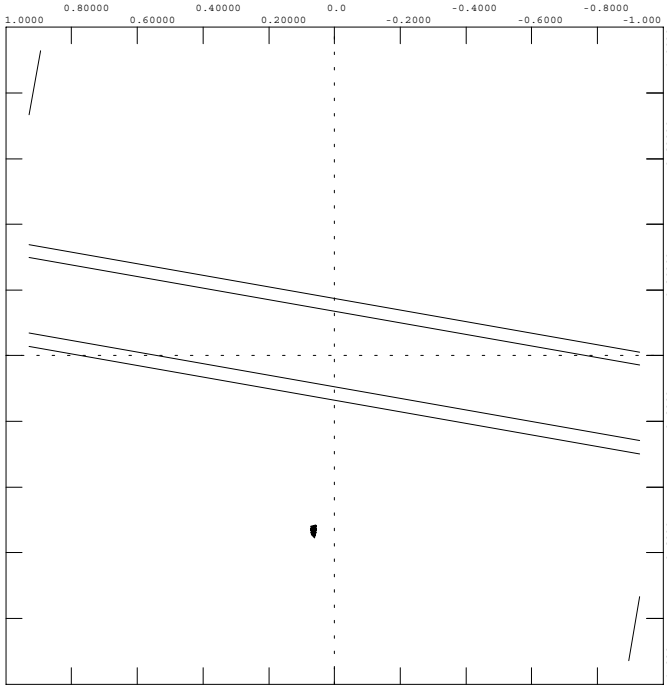


WED, AUG 18 2004 13:55
FORBES DC RED DCAR (679)
CHNL# 968: [DCAR-G]

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 816: [X-DRY4-LET4]

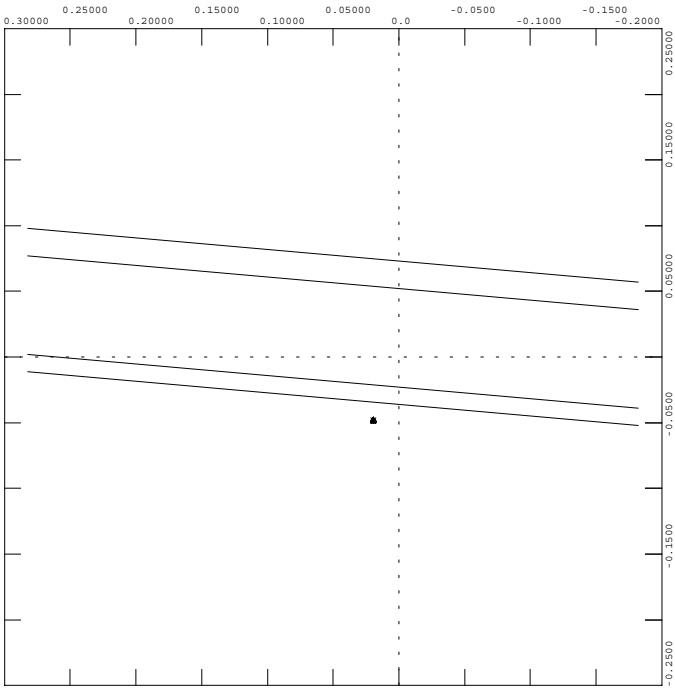


WED, AUG 18 2004 13:55
L20D AT DRAYTON (506)
CHNL# 815: [R-752 3458 1]

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 824: [X-FRB2-ROS2]

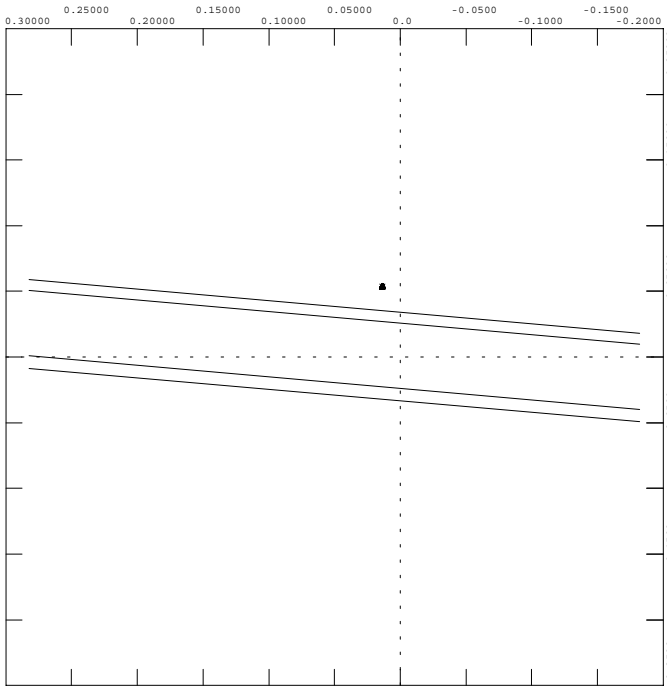


WED, AUG 18 2004 13:55
D602F-FORBES-EMRG (778)
CHNL# 823: [R-1307 1678]

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 856: [X-DSY2-ROS2]

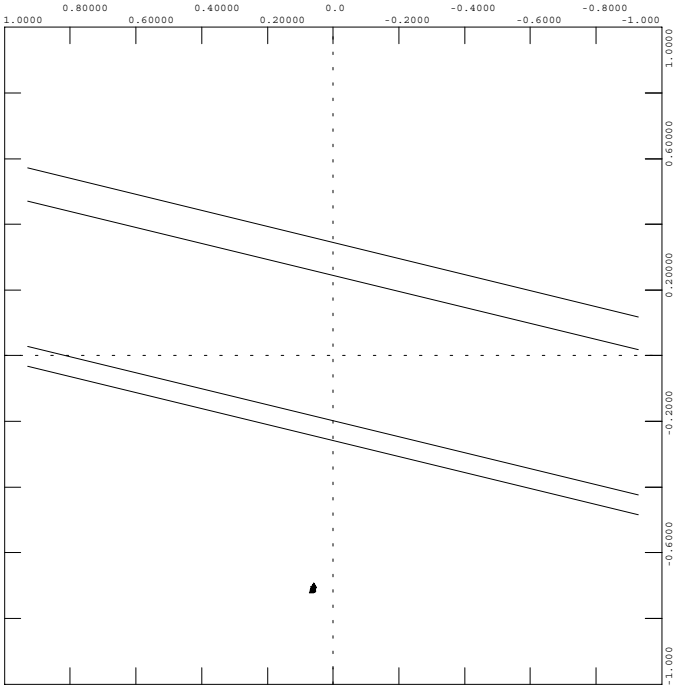


WED, AUG 18 2004 13:55
D602F-DORSEY (606)
CHNL# 855: [R-3465 1677]

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

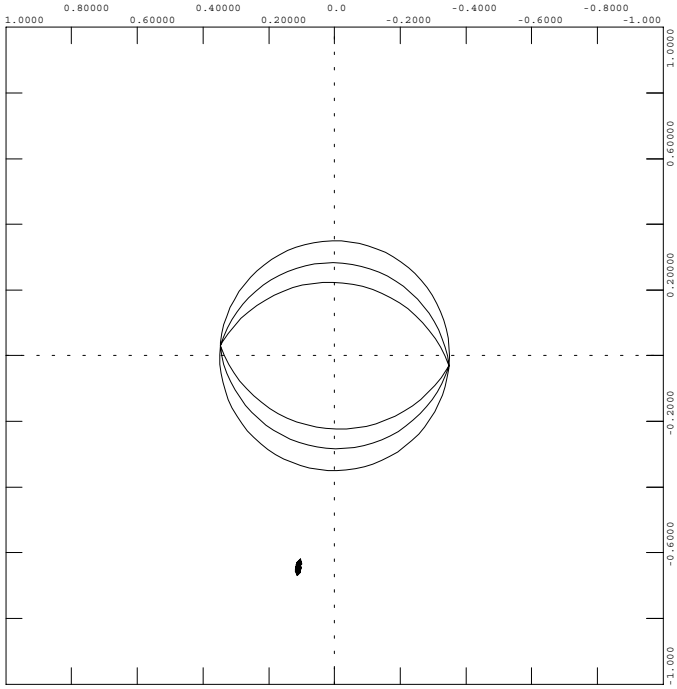
RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 822: [X-MRV4-RCH4]



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

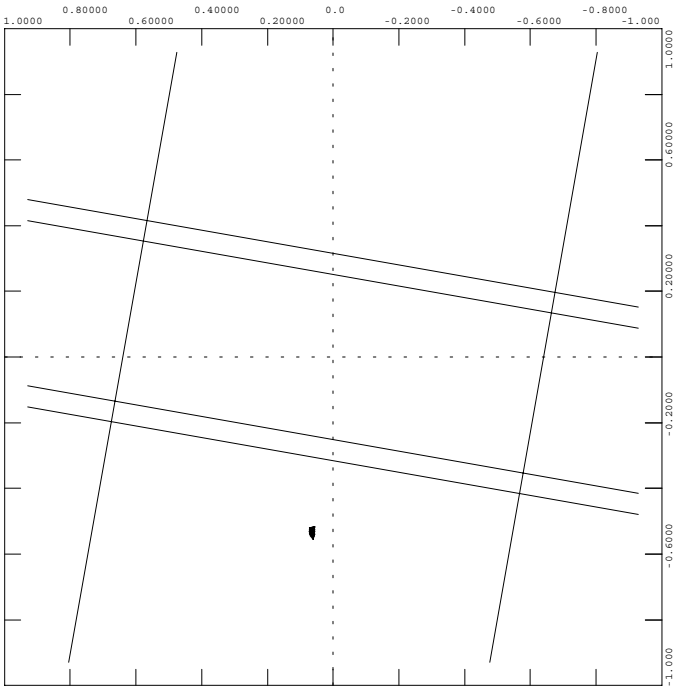
RELAY: SLLP1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 814: [X-TGA4-BD 4]



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

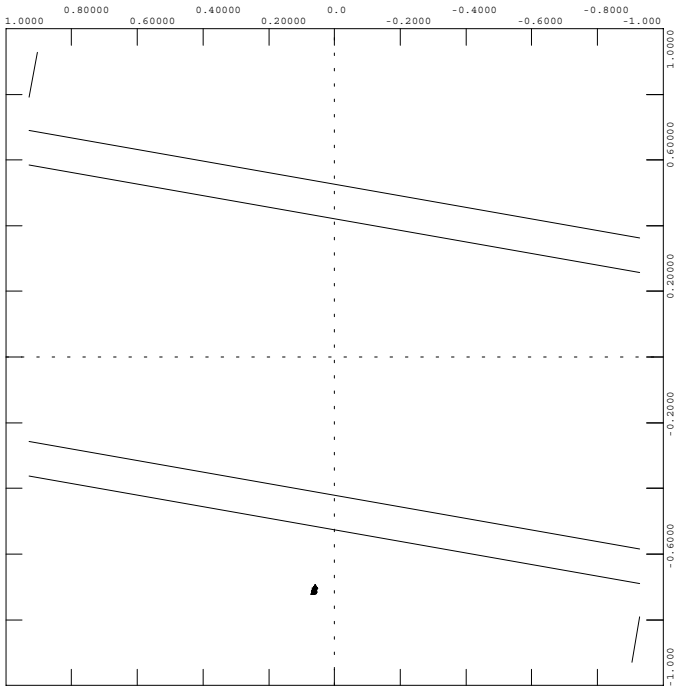
RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 816: [X-DRY4-LET4]



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

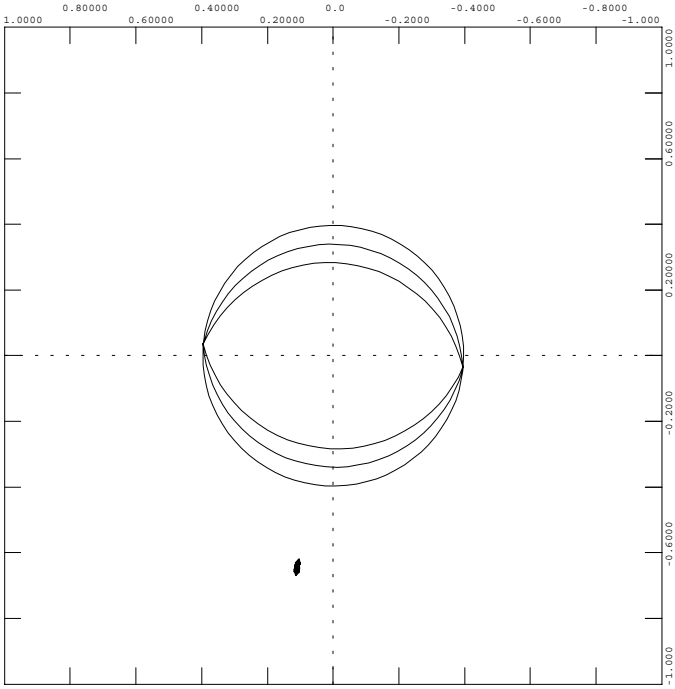
RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 822: [X-MRV4-RCH4]



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

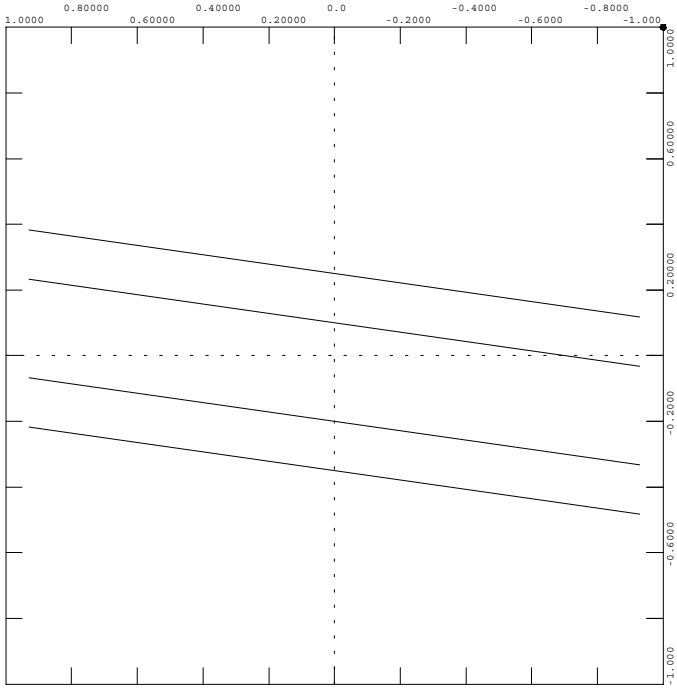
RELAY: SLLP1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 814: [X-TGA4-BD 4]



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

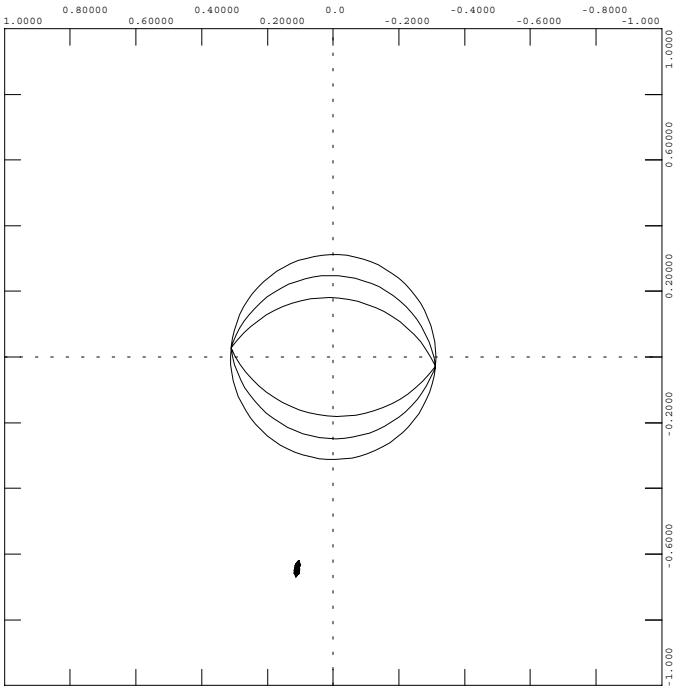
RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 986: [X-G82R]



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

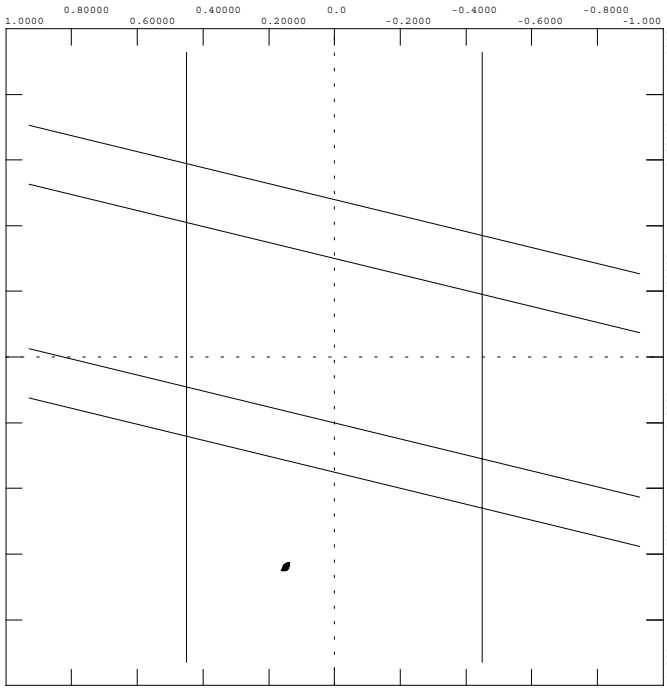
RELAY: SLLP1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 814: [X-TGA4-BD 4]

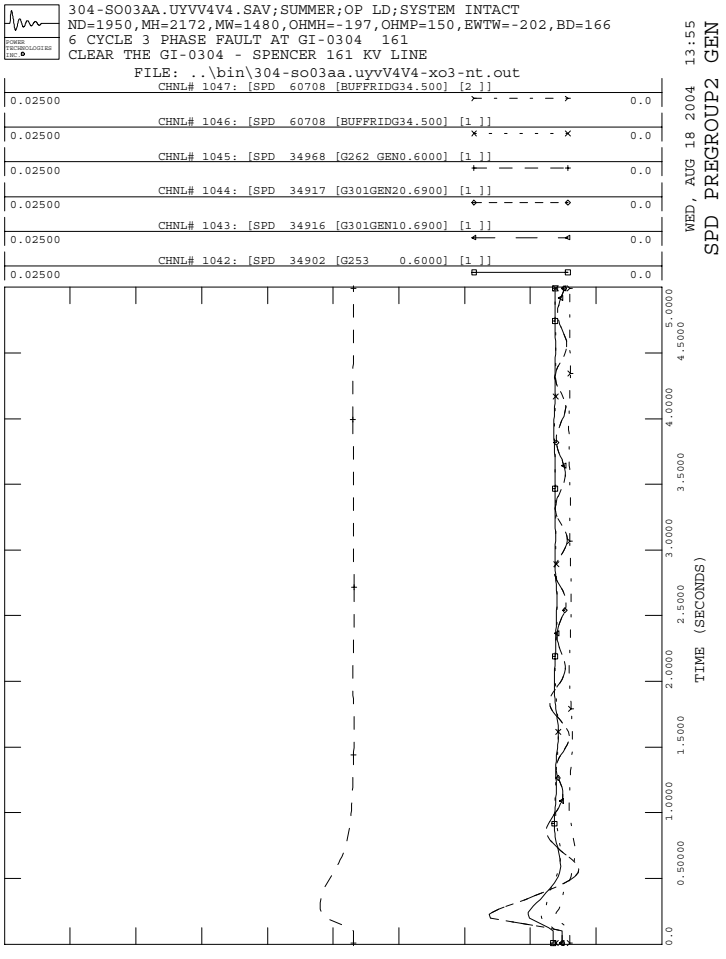


304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 848: [X-INT.F-FTF]




304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out
CHNL# 1047: [SPD 60708 [BUFFRIDG34.500] [2]]
CHNL# 1046: [SPD 60708 [BUFFRIDG34.500] [1]]
CHNL# 1045: [SPD 34968 [G262 GEN0.6000] [1]]
CHNL# 1044: [SPD 34917 [G301GEN20.6900] [1]]
CHNL# 1043: [SPD 34916 [G301GEN10.6900] [1]]
CHNL# 1042: [SPD 34902 [G253 0.6000] [1]]
0.02500
0.0
WED, AUG 18 2004 13:55
SPD PREGROUP2 GEN
TIME (SECONDS)
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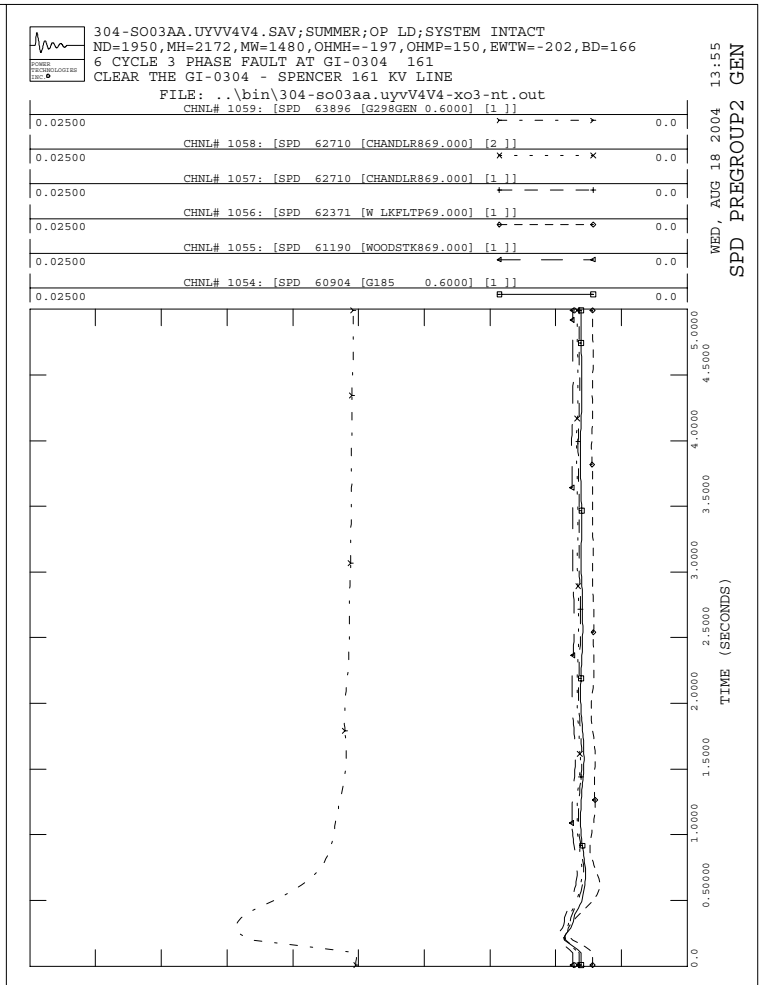
1.0000
1.5000
2.0000
2.5000
3.0000
3.5000
4.0000
4.5000
5.0000


304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out
CHNL# 1059: [SPD 63896 [G298GEN 0.6000] [1]]
CHNL# 1058: [SPD 62710 [CHANDLR869.000] [2]]
CHNL# 1057: [SPD 62710 [CHANDLR869.000] [1]]
CHNL# 1056: [SPD 62371 [W LKFLTP69.000] [1]]
CHNL# 1055: [SPD 61190 [WOODSTK869.000] [1]]
CHNL# 1054: [SPD 60904 [G185 0.6000] [1]]
0.02500
0.0
WED, AUG 18 2004 13:55
SPD PREGROUP2 GEN
TIME (SECONDS)
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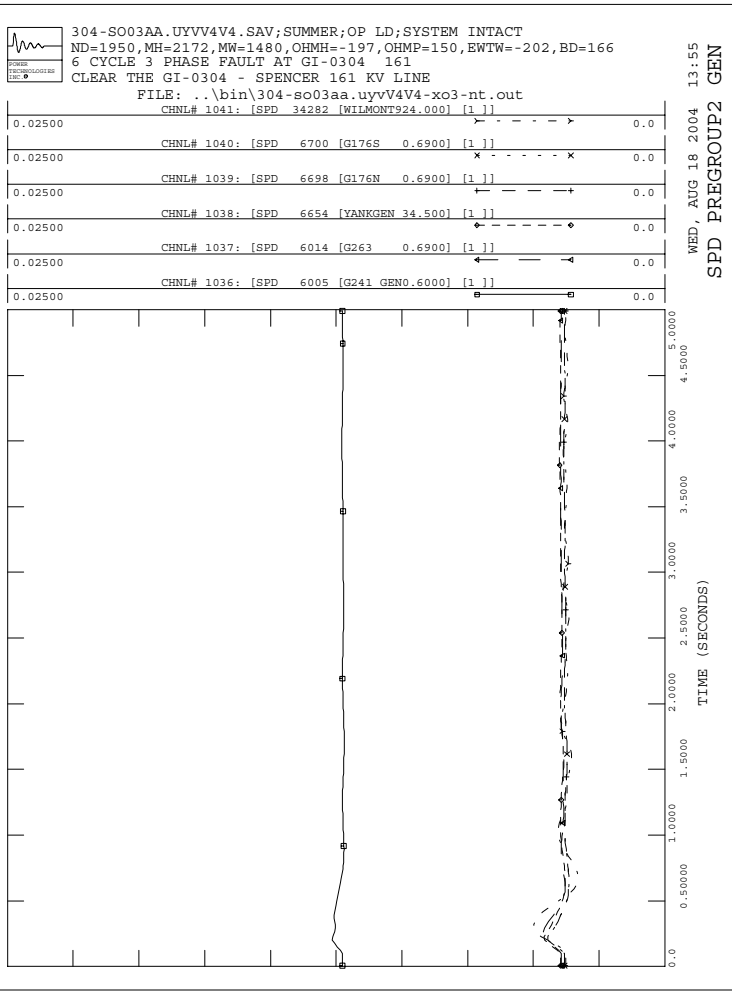
1.0000
1.5000
2.0000
2.5000
3.0000
3.5000
4.0000
4.5000
5.0000


304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out
CHNL# 1041: [SPD 34282 [WILMONT924.000] [1]]
CHNL# 1040: [SPD 6700 [G176S 0.6900] [1]]
CHNL# 1039: [SPD 6698 [G176N 0.6900] [1]]
CHNL# 1038: [SPD 6654 [YANKGEN 34.500] [1]]
CHNL# 1037: [SPD 6014 [G263 0.6900] [1]]
CHNL# 1036: [SPD 6005 [G241 GEN0.6000] [1]]
0.02500
0.0
WED, AUG 18 2004 13:55
SPD PREGROUP2 GEN
TIME (SECONDS)
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1.0000
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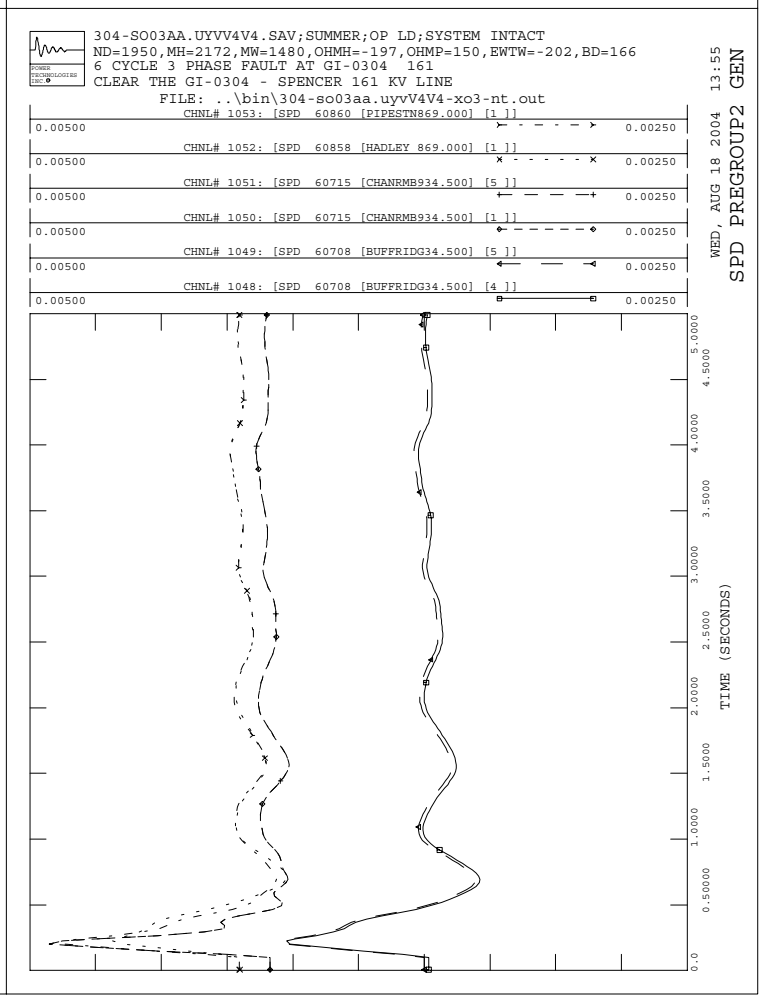
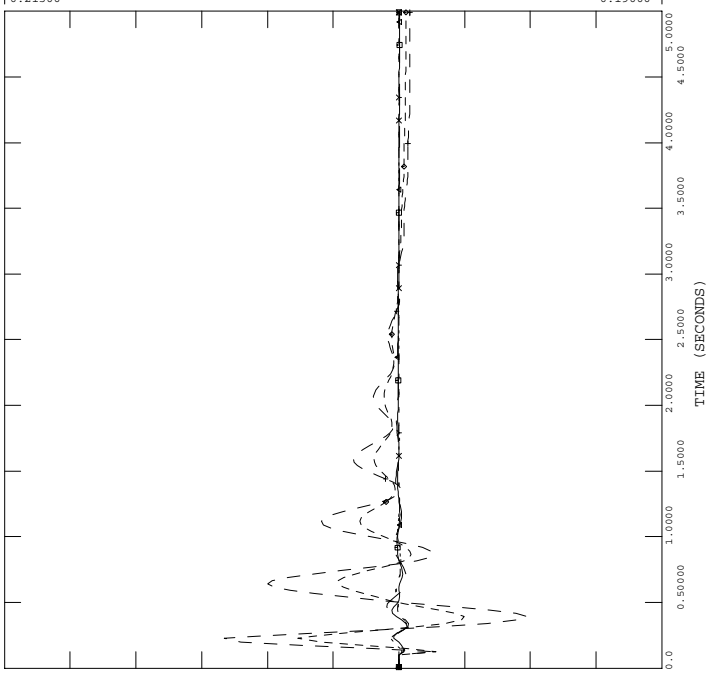
2.0000
2.5000
3.0000
3.5000
4.0000
4.5000
5.0000


304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out
CHNL# 1053: [SPD 60860 [PIPESTN869.000] [1]]
CHNL# 1052: [SPD 60858 [HADLEY 869.000] [1]]
CHNL# 1051: [SPD 60715 [CHANRMB934.500] [5]]
CHNL# 1050: [SPD 60715 [CHANRMB934.500] [1]]
CHNL# 1049: [SPD 60708 [BUFFRIDG34.500] [5]]
CHNL# 1048: [SPD 60708 [BUFFRIDG34.500] [4]]
0.00500
0.00250
WED, AUG 18 2004 13:55
SPD PREGROUP2 GEN
TIME (SECONDS)
0.50000
1.0000
1.5000
2.0000
2.5000
3.0000
3.5000
4.0000
4.5000
5.0000

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

WED, AUG 18 2004 13:55
SPD PREGROUP2 GEN

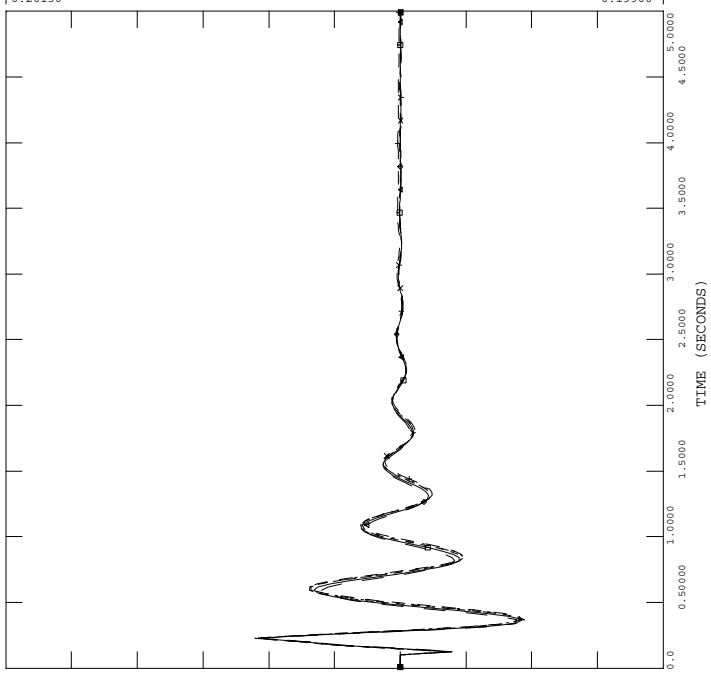
CHNL# 1071: [SPD 91010 [G162-G2 0.5750] [1]] 0.21500 0.19000
CHNL# 1070: [SPD 91009 [G162-G1 0.5750] [1]] 0.21500 0.19000
CHNL# 1069: [SPD 91008 [MEC BV 0.5750] [1]] 0.21500 0.19000
CHNL# 1068: [SPD 91007 [CLIPRG190.5750] [1]] 0.21500 0.19000
CHNL# 1067: [SPD 91006 [ENXCOG190.5750] [1]] 0.21500 0.19000
CHNL# 1066: [SPD 91005 [CHANRMG70.5750] [1]] 0.21500 0.19000



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

WED, AUG 18 2004 13:55
SPD PREGROUP2 GEN

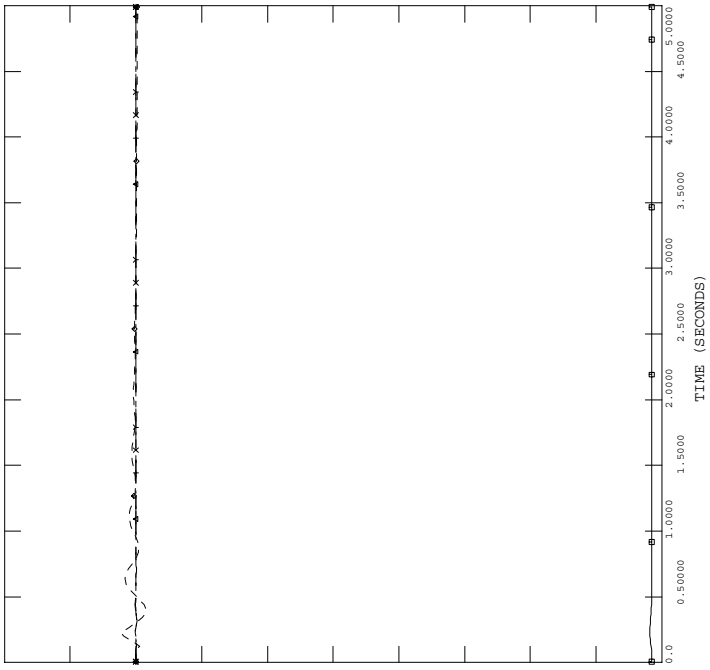
CHNL# 1083: [SPD 91022 [G164-G6 0.5750] [1]] 0.20150 0.19900
CHNL# 1082: [SPD 91021 [G164-G5 0.5750] [1]] 0.20150 0.19900
CHNL# 1081: [SPD 91020 [G164-G4 0.5750] [1]] 0.20150 0.19900
CHNL# 1080: [SPD 91019 [G164-G3 0.5750] [1]] 0.20150 0.19900
CHNL# 1079: [SPD 91018 [G164-G2 0.5750] [1]] 0.20150 0.19900
CHNL# 1078: [SPD 91017 [G164-G1 0.5750] [1]] 0.20150 0.19900



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

WED, AUG 18 2004 13:55
SPD PREGROUP2 GEN

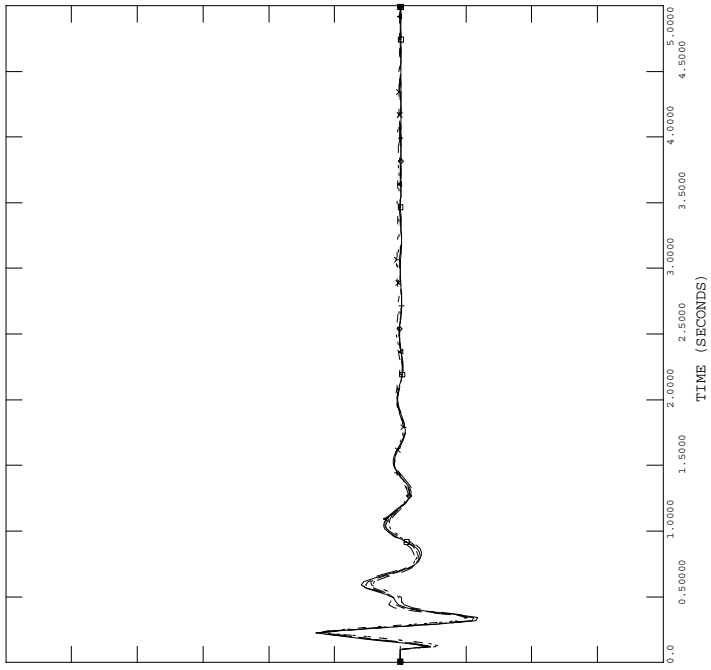
CHNL# 1065: [SPD 91004 [CHANRMG60.5750] [1]] 0.25000 0.0
CHNL# 1064: [SPD 91003 [CHANRMG40.5750] [1]] 0.25000 0.0
CHNL# 1063: [SPD 91002 [CHANRMG30.5750] [1]] 0.25000 0.0
CHNL# 1062: [SPD 91001 [FLYCLD 0.5750] [1]] 0.25000 0.0
CHNL# 1061: [SPD 91000 [BUFFRID30.5750] [1]] 0.25000 0.0
CHNL# 1060: [SPD 66601 [GI0108 0.6900] [1]] 0.25000 0.0



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

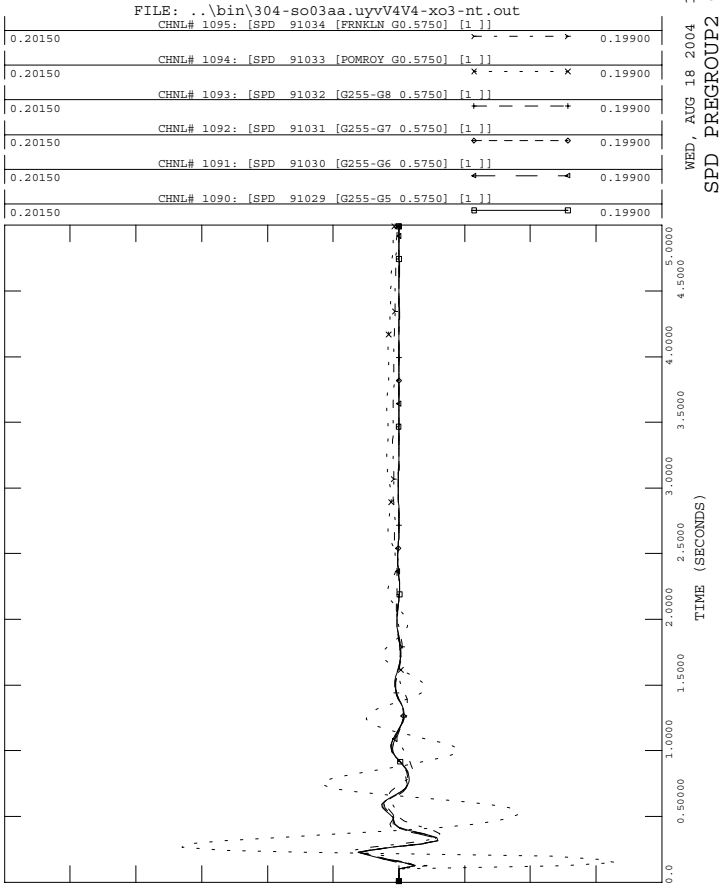
WED, AUG 18 2004 13:55
SPD PREGROUP2 GEN

CHNL# 1077: [SPD 91016 [G162-G8 0.5750] [1]] 0.20150 0.19900
CHNL# 1076: [SPD 91015 [G162-G7 0.5750] [1]] 0.20150 0.19900
CHNL# 1075: [SPD 91014 [G162-G6 0.5750] [1]] 0.20150 0.19900
CHNL# 1074: [SPD 91013 [G162-G5 0.5750] [1]] 0.20150 0.19900
CHNL# 1073: [SPD 91012 [G162-G4 0.5750] [1]] 0.20150 0.19900
CHNL# 1072: [SPD 91011 [G162-G3 0.5750] [1]] 0.20150 0.19900



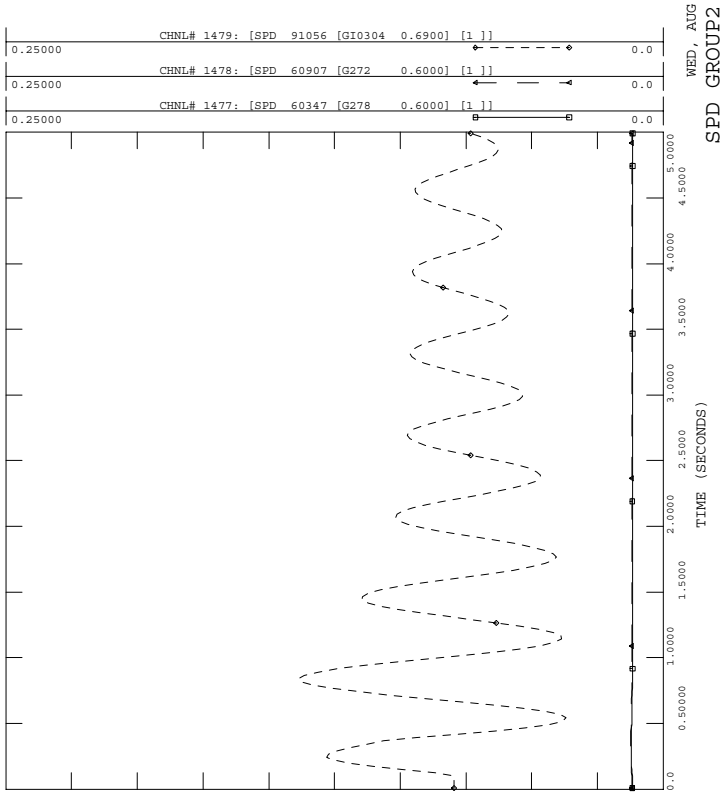
304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

WED, AUG 18 2004 13:55
SPD PREGROUP2 GEN



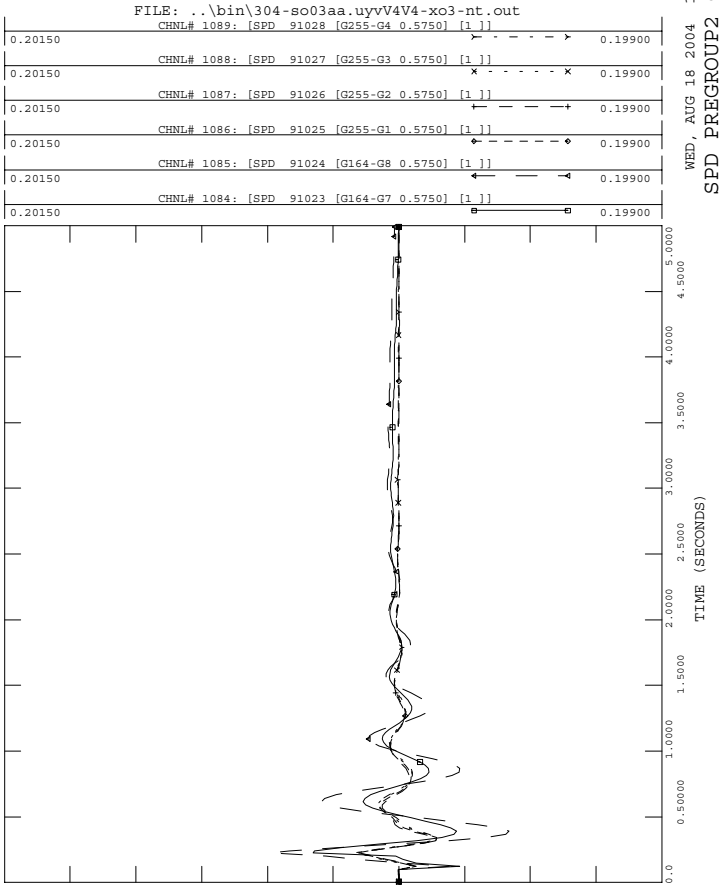
304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

WED, AUG 18 2004 13:55
SPD GROUP2 INDUC GEN



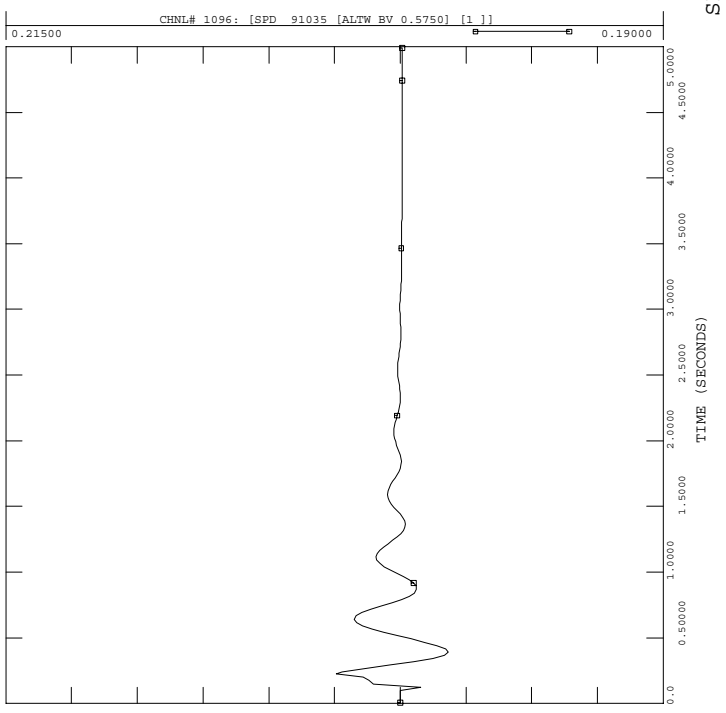
304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

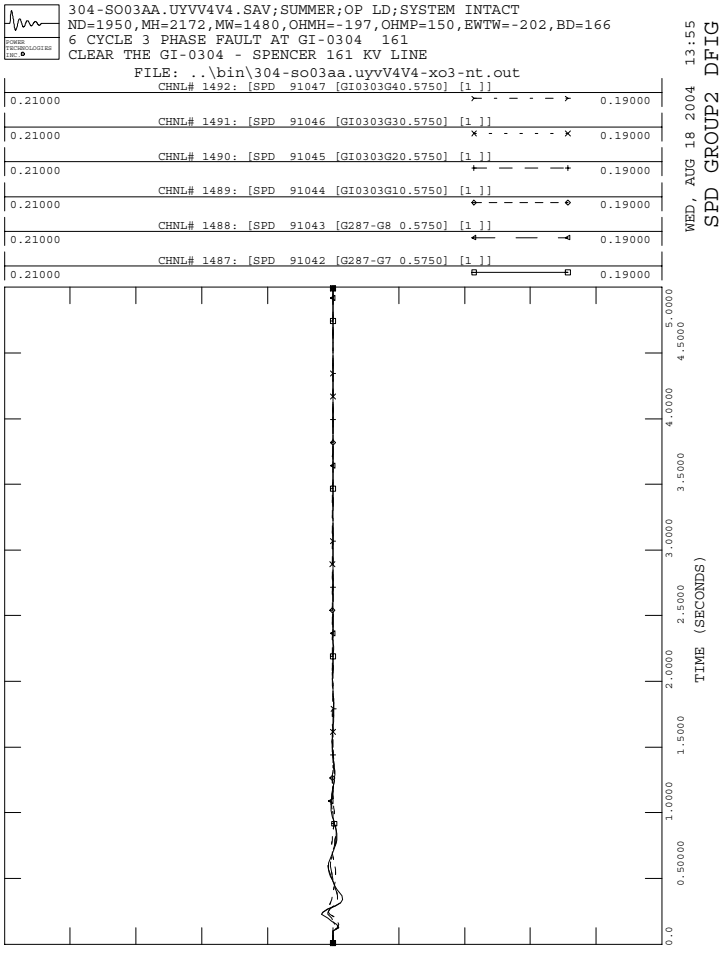
WED, AUG 18 2004 13:55
SPD PREGROUP2 GEN

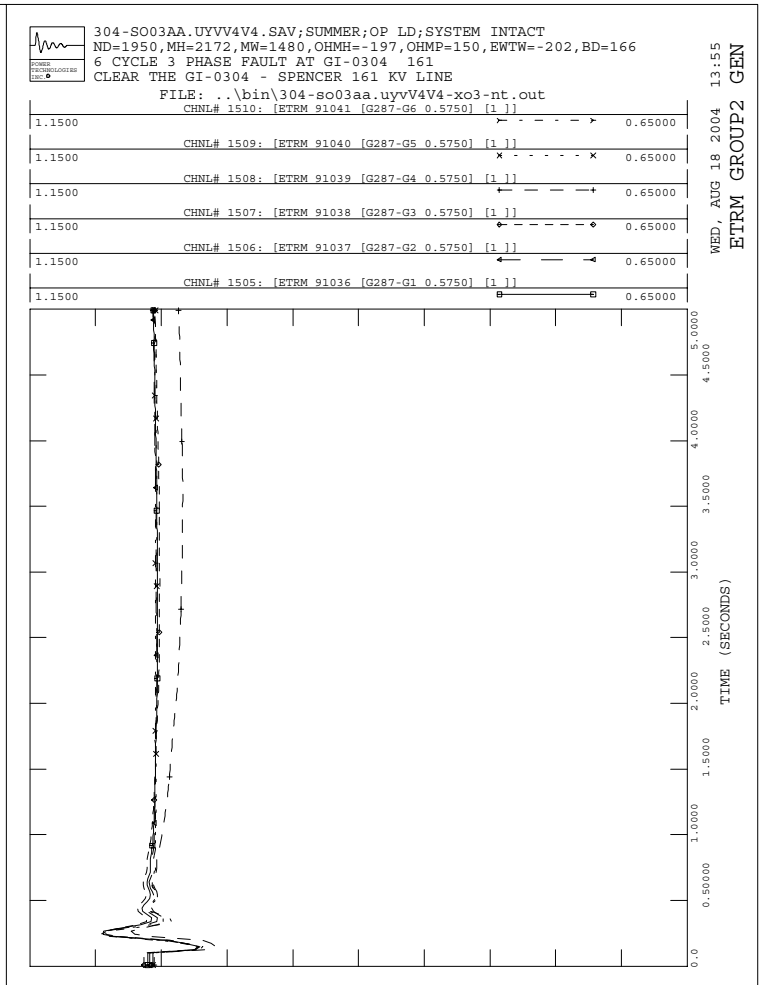


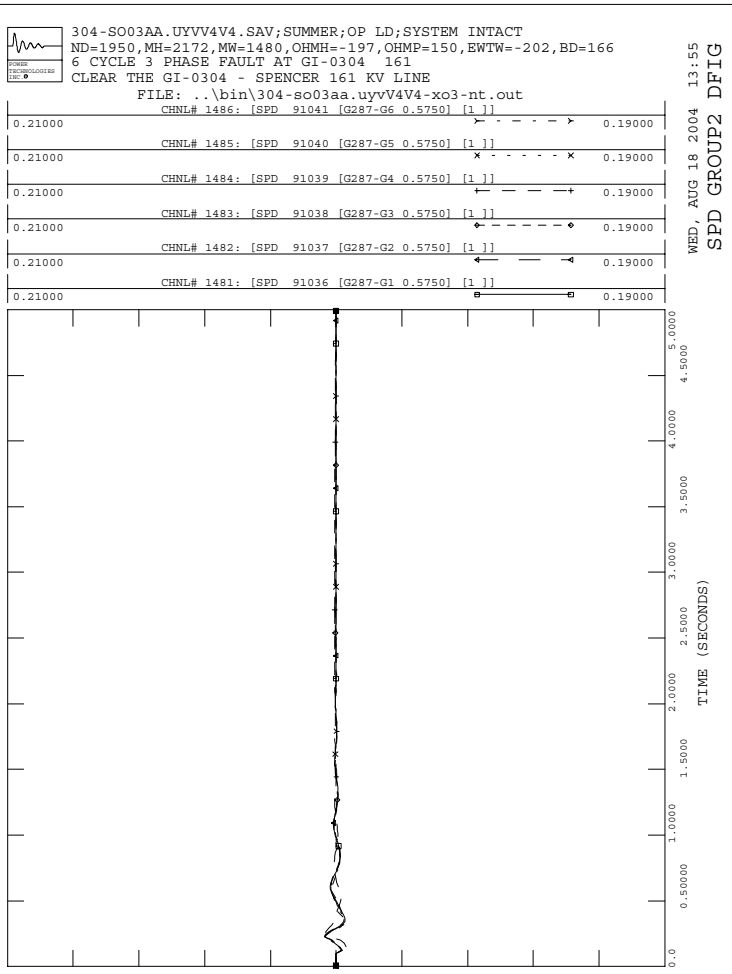
304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

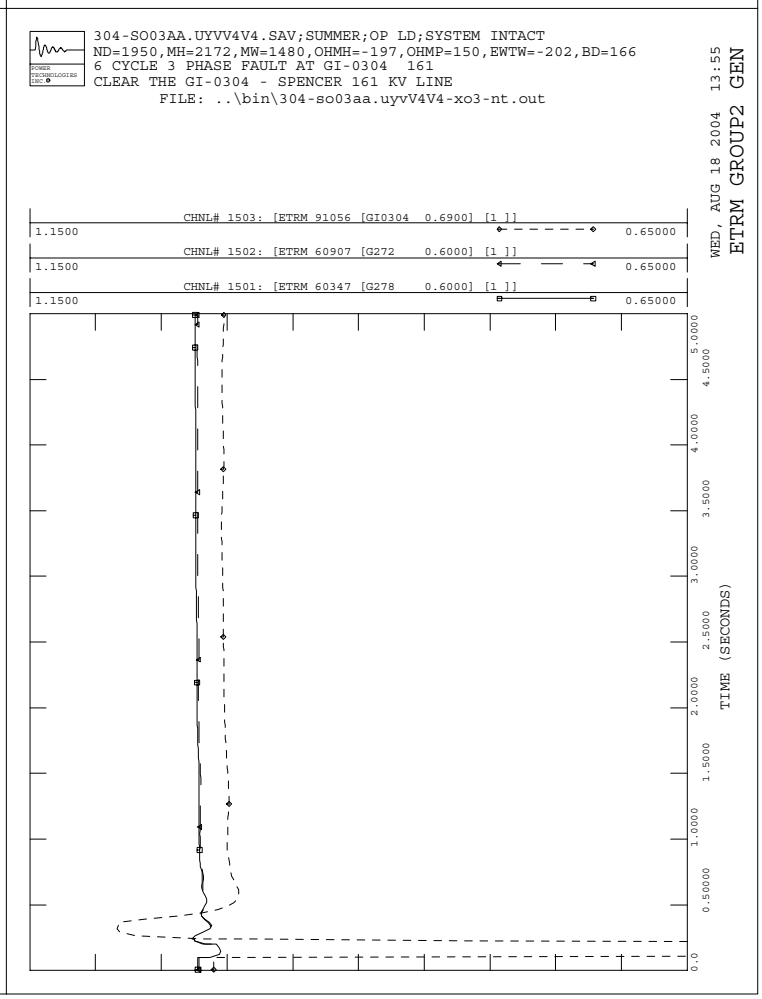
WED, AUG 18 2004 13:55
SPD PREGROUP2 GEN




304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out
CHNL# 1492: [SPD 91047 [GI0303G40.5750] [1]]
CHNL# 1491: [SPD 91046 [GI0303G30.5750] [1]]
CHNL# 1490: [SPD 91045 [GI0303G20.5750] [1]]
CHNL# 1489: [SPD 91044 [GI0303G10.5750] [1]]
CHNL# 1488: [SPD 91043 [G287-G8 0.5750] [1]]
CHNL# 1487: [SPD 91042 [G287-G7 0.5750] [1]]
0.21000
0.19000
WED, AUG 18 2004 13:55
SPD GROUP2 DFIG
TIME (SECONDS)


304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out
CHNL# 1510: [ETRM 91041 [G287-G6 0.5750] [1]]
CHNL# 1509: [ETRM 91040 [G287-G5 0.5750] [1]]
CHNL# 1508: [ETRM 91039 [G287-G4 0.5750] [1]]
CHNL# 1507: [ETRM 91038 [G287-G3 0.5750] [1]]
CHNL# 1506: [ETRM 91037 [G287-G2 0.5750] [1]]
CHNL# 1505: [ETRM 91036 [G287-G1 0.5750] [1]]
1.1500
0.65000
WED, AUG 18 2004 13:55
ETRM GROUP2 GEN
TIME (SECONDS)

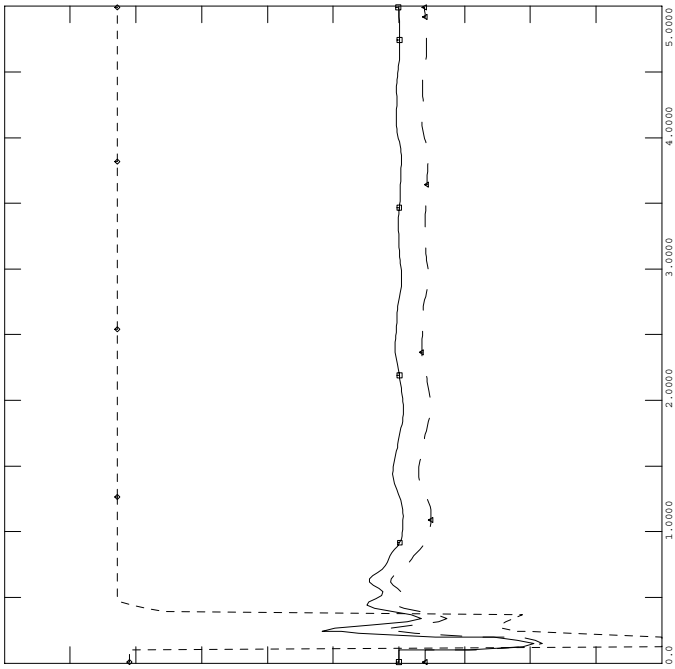

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out
CHNL# 1486: [SPD 91041 [G287-G6 0.5750] [1]]
CHNL# 1485: [SPD 91040 [G287-G5 0.5750] [1]]
CHNL# 1484: [SPD 91039 [G287-G4 0.5750] [1]]
CHNL# 1483: [SPD 91038 [G287-G3 0.5750] [1]]
CHNL# 1482: [SPD 91037 [G287-G2 0.5750] [1]]
CHNL# 1481: [SPD 91036 [G287-G1 0.5750] [1]]
0.21000
0.19000
WED, AUG 18 2004 13:55
SPD GROUP2 DFIG
TIME (SECONDS)


304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out
CHNL# 1503: [ETRM 91056 [GI0304 0.6900] [1]]
CHNL# 1502: [ETRM 60907 [G272 0.6000] [1]]
CHNL# 1501: [ETRM 60347 [G278 0.6000] [1]]
1.1500
0.65000
WED, AUG 18 2004 13:55
ETRM GROUP2 GEN
TIME (SECONDS)

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

WED, AUG 18 2004 13:55
P GROUP2 GEN

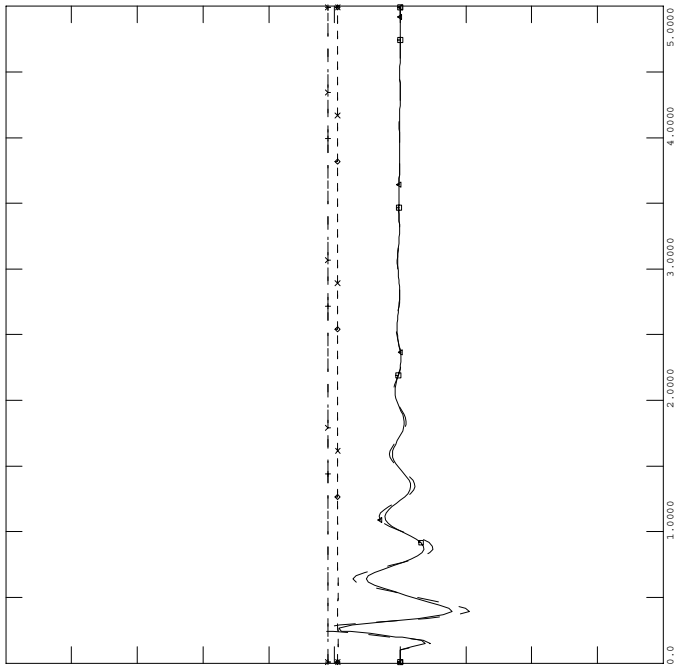
CHNL# 1527: [POWR 91056 [GI0304 0.6900] [1]]
1.0000 0.0
CHNL# 1526: [POWR 60907 [G272 0.6000] [1]]
0.11500 0.09000
CHNL# 1525: [POWR 60347 [G278 0.6000] [1]]
0.09500 0.07000



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

WED, AUG 18 2004 13:55
P GROUP2 GEN

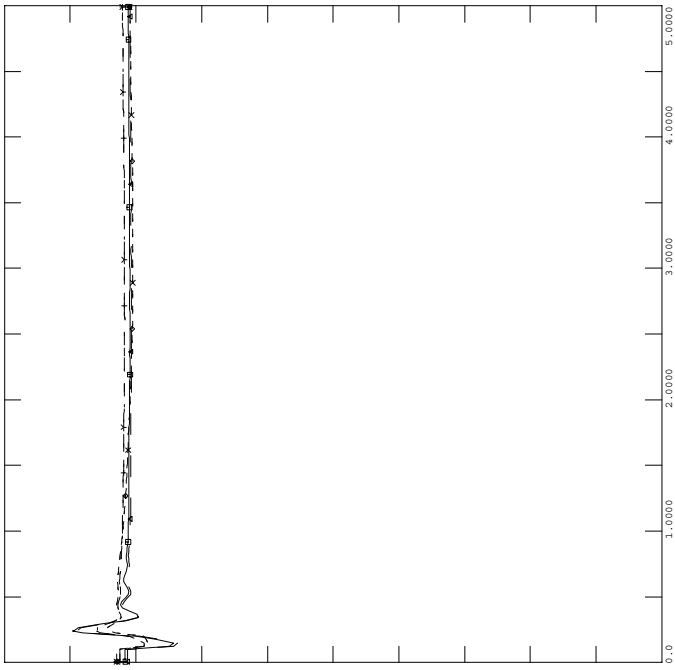
CHNL# 1540: [POWR 91047 [GI0303G40.5750] [1]]
1.0000 0.0
CHNL# 1539: [POWR 91046 [GI0303G30.5750] [1]]
1.0000 0.0
CHNL# 1538: [POWR 91045 [GI0303G20.5750] [1]]
1.0000 0.0
CHNL# 1537: [POWR 91044 [GI0303G10.5750] [1]]
1.0000 0.0
CHNL# 1536: [POWR 91043 [G287-G8 0.5750] [1]]
0.28650 0.28400
CHNL# 1535: [POWR 91042 [G287-G7 0.5750] [1]]
0.22650 0.22400



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

WED, AUG 18 2004 13:55
ETRM GROUP2 GEN

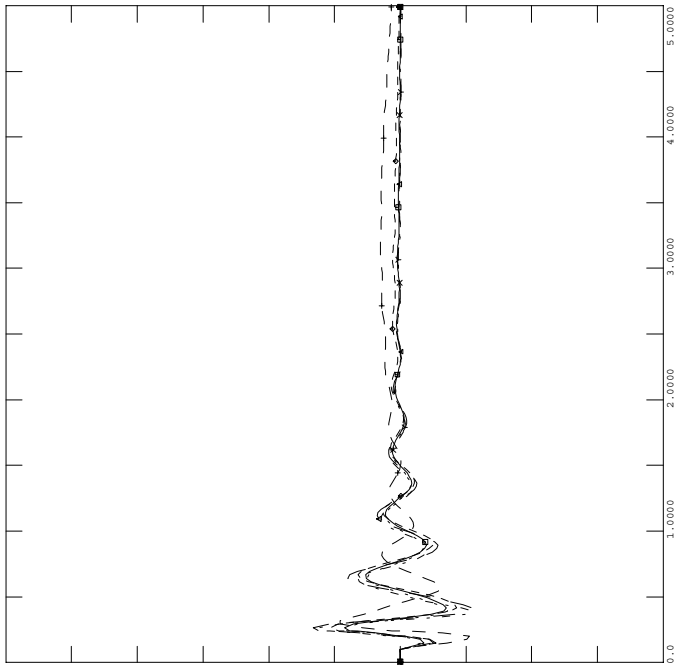
CHNL# 1516: [ETRM 91047 [GI0303G40.5750] [1]]
1.1500 0.65000
CHNL# 1515: [ETRM 91046 [GI0303G30.5750] [1]]
1.1500 0.65000
CHNL# 1514: [ETRM 91045 [GI0303G20.5750] [1]]
1.1500 0.65000
CHNL# 1513: [ETRM 91044 [GI0303G10.5750] [1]]
1.1500 0.65000
CHNL# 1512: [ETRM 91043 [G287-G8 0.5750] [1]]
1.1500 0.65000
CHNL# 1511: [ETRM 91042 [G287-G7 0.5750] [1]]
1.1500 0.65000

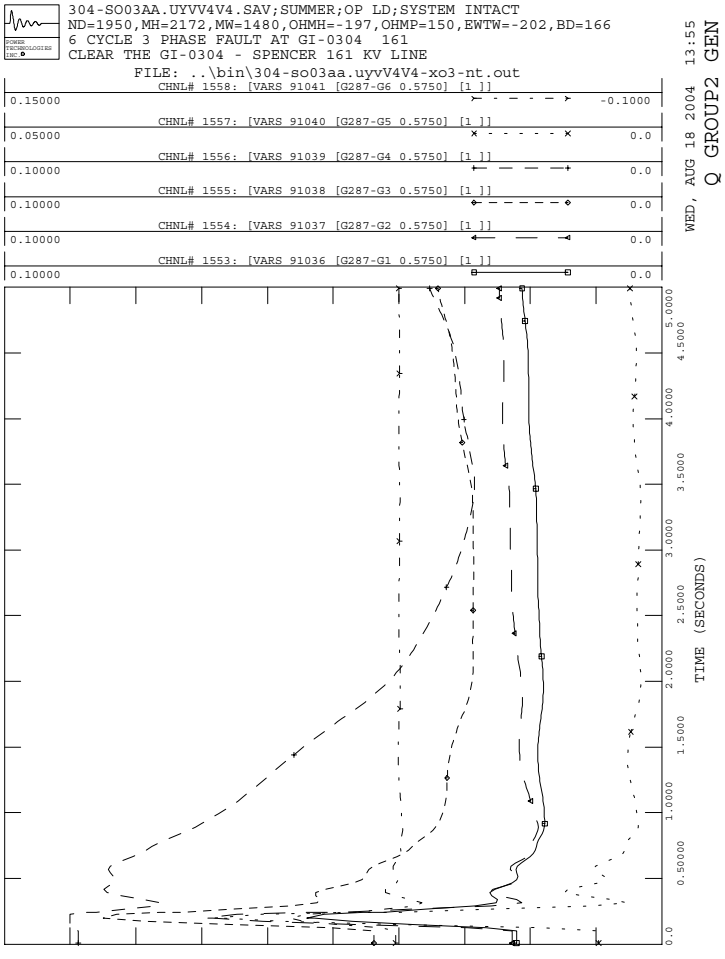


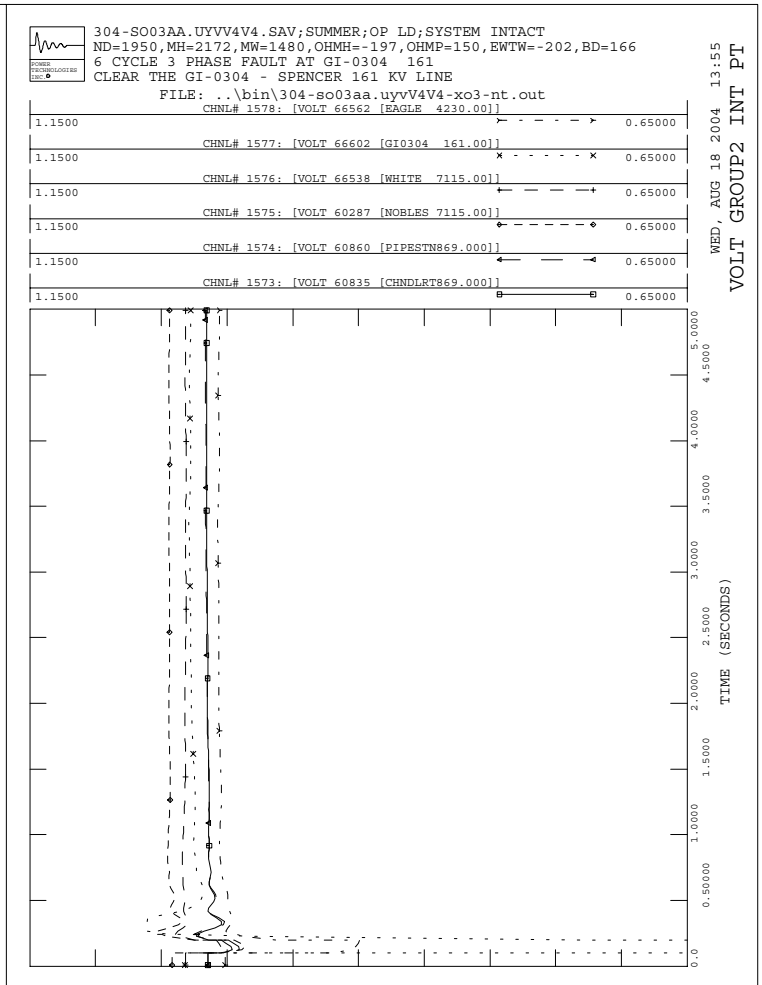
304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

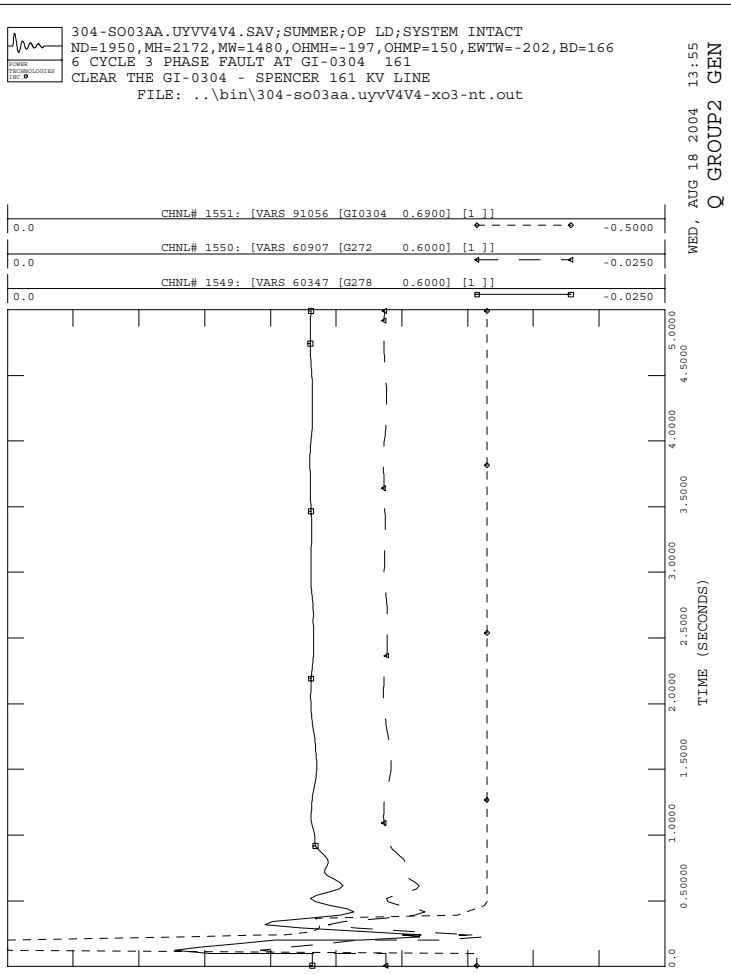
WED, AUG 18 2004 13:55
P GROUP2 GEN

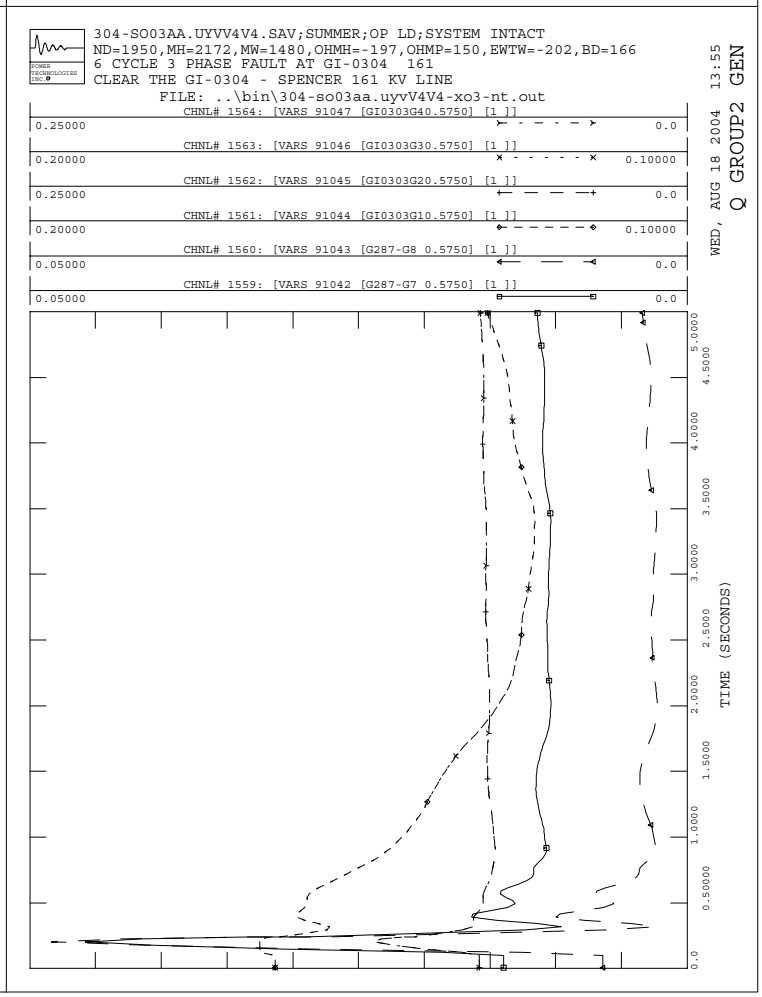
CHNL# 1534: [POWR 91041 [G287-G6 0.5750] [1]]
0.31650 0.31400
CHNL# 1533: [POWR 91040 [G287-G5 0.5750] [1]]
0.19650 0.19400
CHNL# 1532: [POWR 91039 [G287-G4 0.5750] [1]]
0.27150 0.26900
CHNL# 1531: [POWR 91038 [G287-G3 0.5750] [1]]
0.25650 0.25400
CHNL# 1530: [POWR 91037 [G287-G2 0.5750] [1]]
0.31650 0.31400
CHNL# 1529: [POWR 91036 [G287-G1 0.5750] [1]]
0.19650 0.19400




304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out
CHNL# 1558: [VARS 91041 [G287-G6 0.5750] [1]]
0.15000
-0.1000
CHNL# 1557: [VARS 91040 [G287-G5 0.5750] [1]]
0.05000
0.0
CHNL# 1556: [VARS 91039 [G287-G4 0.5750] [1]]
0.10000
0.0
CHNL# 1555: [VARS 91038 [G287-G3 0.5750] [1]]
0.10000
0.0
CHNL# 1554: [VARS 91037 [G287-G2 0.5750] [1]]
0.10000
0.0
CHNL# 1553: [VARS 91036 [G287-G1 0.5750] [1]]
0.10000
0.0
WED, AUG 18 2004 13:55
Q GROUP2 GEN
TIME (SECONDS)

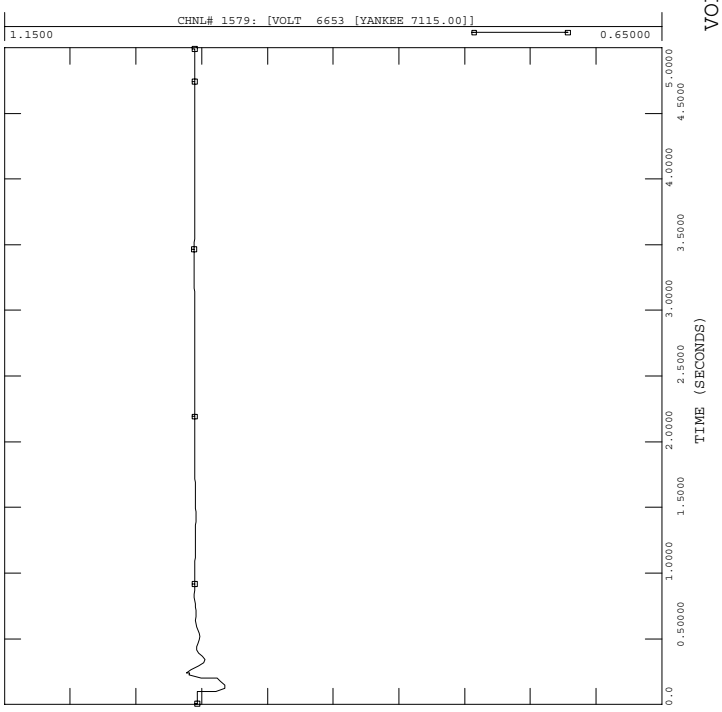

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out
CHNL# 1578: [VOLT 66562 [EAGLE 4230.00]]
1.1500
0.65000
CHNL# 1577: [VOLT 66602 [GI0304 161.00]]
1.1500
0.65000
CHNL# 1576: [VOLT 66538 [WHITE 7115.00]]
1.1500
0.65000
CHNL# 1575: [VOLT 60287 [NOBLES 7115.00]]
1.1500
0.65000
CHNL# 1574: [VOLT 60860 [PIPESTN869.000]]
1.1500
0.65000
CHNL# 1573: [VOLT 60835 [CHNDLRT869.000]]
1.1500
0.65000
WED, AUG 18 2004 13:55
VOLT GROUP2 INT PT
TIME (SECONDS)


304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out
CHNL# 1551: [VARS 91056 [GI0304 0.6900] [1]]
0.0
-0.5000
CHNL# 1550: [VARS 60907 [G272 0.6000] [1]]
0.0
-0.0250
CHNL# 1549: [VARS 60347 [G278 0.6000] [1]]
0.0
-0.0250
WED, AUG 18 2004 13:55
Q GROUP2 GEN
TIME (SECONDS)


304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out
CHNL# 1564: [VARS 91047 [GI0303G40.5750] [1]]
0.25000
0.0
CHNL# 1563: [VARS 91046 [GI0303G30.5750] [1]]
0.20000
0.10000
CHNL# 1562: [VARS 91045 [GI0303G20.5750] [1]]
0.25000
0.0
CHNL# 1561: [VARS 91044 [GI0303G10.5750] [1]]
0.20000
0.10000
CHNL# 1560: [VARS 91043 [G287-G8 0.5750] [1]]
0.05000
0.0
CHNL# 1559: [VARS 91042 [G287-G7 0.5750] [1]]
0.05000
0.0
WED, AUG 18 2004 13:55
Q GROUP2 GEN
TIME (SECONDS)

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SPENCER 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xo3-nt.out

WED, AUG 18 2004 13:55
VOLT GROUP2 INT PT



J.4 Disturbance xp3 with GI0304

6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE

WED, AUG 18 2004 13:31

INITIATED AT LOAD FLOW ENTRY POINT ON WED, AUG 18 2004 13:32

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166

6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE

SPECIAL RESPONSE FILES AND COMMENTS
--- --- --- --- ---

RESPONSE FILES
--- ---
None

COMMENTS

None

P O W E R F L O W S U M M A R Y

NDEX:	1950 MW	ECL-ARP:	806 MW
MHEX:	2172 MW	PRI-BYN:	675 MW
MWSI:	1482 MW	LKM-WFB:	-55 MW
		NI-WUMS:	430 MW
COOPER S:	1197 MW	WNE-WKS:	592 MW
FTCAL S:	863 MW	GGS:	1646 MW
GRIS-LNC:	743 MW	QC WEST:	-122 MW

LOAD LEVELS AS PERCENT OF 2003 SUMMER PEAK:
NORTH DAKOTA (ZONE 90,990) 1744.5 MW, 66.3% OF 2632.4 MW
NSP (AREA 600) 8741.2 MW, 96.2% OF 9083.5 MW
MAN HYDRO (AREA 667) 2264.9 MW, 85.0% OF 2663.8 MW

Load/Losses	MW / MW	Generation	MW	Export	MW
Manitoba	2264/ 364	MH total gross	4951	MN-WUMS	1058
Ont. total	22447/ 535	Wpg River	560	MN-IOWA	-720
NW	724/ 65	7 Sisters	163	MNEX	1153
Sask.	2384/ 78	OH total gross	23037	East Bias	412
MP	1666/ 119	northwest	943	SPC>WAPA (B10T)	166
NSP	8741/ 710	SPC total gross	2627	MH>SPC (3-230)	75
N. Dakota	1744/ 272	MP total gross	2100	MH>SPC (FALLS)	-71
Manitoba	556 MVARS	ND Cfd AC gross	3034	OH>MH @Kenora	-197
Ont. total	13190 MVARS	net	2863	OH>MP @Ft Fran	150
NW	425 MVARS	NSP East gross	1928	OH E>W @Wawa	-202
Sask.	569 MVARS	net	1819	OH>East USA	-2
MP	445 MVARS	West gross	2239	F601C @Forbes	1948
NSP	1513 MVARS	net	2073	D602F @Dorsey	1860
N. Dakota	362 MVARS	Total net	7218	L20D @Letell	199
		WAPA SD Hydro	1441	R50M @Richer	152
		Pleasant Valley	0	G82R @Glenboro	-39
		Lakefield Gen	549		
		Buffalo Ridge	151		
		Swing Bus	620		

Tfmrs	MVA/ Load	Ph Shifters	Deg/ MW	DC Lines	MW
Wshell #1 7-7	100/ 50%	Stinson	50/ 108	CU (1,2)	1075
Wshell #2 7-7	100/ 50%	Boundary Dam	26/ 166	Miles City E>W	-150
Drayton#1 4-7	41/ 29%	Whiteshell	16/ 200	SQ BU (3,4)	400
Drayton#2 4-7	53/ 28%	Int Falls	31/ 150	MH Bipole 1	1511
Dorsey #1 2-4	878/ 73%	St. Lawrence	7/ 2	MH Bipole 2	1710

```
Dorsey #2 2-4 1038/  86%                                MH (BP1+BP2)      3221
Forbes    2-4  116/  17%


Dorsey SC's       I/S  MVAR  Qmax/ Qmin    SVC's              MVAR  Qmax/ Qmin
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----------------- --- -----  ---- -----    ----------------- -----  ---- -----
MIL 7-9G     17.0  2    557   600/ -330    Forbes        500    34   400/ -450
SCE 1-3G     18.2  3    447   480/ -240    Fargo        13.2     2    20/ -135
SCA 4-6G     18.2  3    447   480/ -240    Watertown    20.0    49   125/  -86
                        -----  ---- -----
       Total           1451  1560/ -810    Series Caps       Num In Serv
       Margin           109                ----------------- -----------
                                           Roseau        500   2 of 2
                                           Chisago       500   1 of 1


Caps/Reactors       MVAR   Caps/Reactors       MVAR   Caps/Reactors       MVAR
------------------ -----   ------------------ -----   ------------------ -----
Balta     (FS) 230     0   Arrowhead      230   160   Chisago T  9  34.5    50
Drayton        115    20   Blackberry     230    47   Chisago T 10  34.5    50
Drayton       13.8     0   Minntac        115    45   Forbes         230    72
Eau Claire(FS) 161   356   Riverton       230    47   Forbes         500   600
Kohlman Lake   115   233   Roseau Co.(FS) 230     0                          0
Parkers Lk(FS) 115   240   Running   (FS) 230    30   Fargo          115    54
Prairie   (FS) 115    40   Running react  230     0   Watertown       20    20
Ramsey    (FS) 230     0   Shannon        230    72   Watertown      230    76
Red Rock       115   156                           0                          0
Rugby         13.8   -25   Glenboro       230     0                          0
Split Rock(FS) 115    80   Laverendrye    110    98                          0
Sheyenne  (FS) 115    40   Richer react   230     0                          0
Wilton/Bemidji 115     0   St Vital       110    98                          0


Bus Voltages       V,pu    Bus Voltages       V,pu    Bus Voltages       V,kV
------------------ -----   ------------------ -----   ------------------ -----
Adams          345 1.016   Arrowhead      230 1.025   Whiteshell     110 118.8
Alexandria     115 0.982   Badoura        115 0.984   Kenora         220 240.8
Audubon        115 1.010   Blackberry     230 1.021   Dryden         220 241.4
Bemidji        115 0.985   Boise Cascade 13.8 1.067   Fort Frances   220 235.5
Byron          345 1.036   Boise Cascade  115 1.013   Mackenzie      220 243.7
Chisago Co.    345 1.001   ETCO           115 0.994   Lakehead       220 245.5
Chisago Co.    500 0.992   Forbes         230 1.002   Marathon       220 239.3
Drayton        230 1.029   Forbes         500 0.990   Wawa           220 235.1
Eau Claire     345 0.956   Hubbard        115 0.976   Mississagi     220 232.6
Faribault,West 115 1.023   Intl Falls     115 1.012   Fort Frances   118 118.4
LaPorte        115 0.984   Minntac        115 1.001   Lakehead       118 123.5
Maple River    230 1.005   Moranville     230 1.034   Birch          118 121.4
Marshall Tap   115 1.019   Riverton       230 0.983   Marathon       118 124.3
Owatonna       161 0.999   Running        230 1.026                        0.0
Prairie        115 1.006   Shannon        230 1.020                        0.0
Prairie        230 1.026                      0.000                        0.0
Ramsey         230 1.027   Groton         345 1.019                        0.0
Roseau County  230 1.035   Watertown      230 1.030                        0.0
Roseau County  500 1.061   Watertown      345 1.027                        0.0
Sheyenne       230 1.006                      0.000                        0.0
Thief R Falls  115 1.014   Dorsey         230 1.045                        0.0
Tioga          230 1.039   Dorsey         500 1.032                        0.0
Wahpeton       230 0.991                      0.000                        0.0
Winger         115 1.024                      0.000                        0.0


Steady State Relay Margins (measured from inner blinder)
---------------------------------------------------------
Relay Location             Manuf/Type  PSS Model   South     North    Em North
-------------------------  ----------  ---------  --------  --------  --------
 1) B10T-Tioga (South)     GE OST       SLLP        337%      N/A       N/A
 2)     -Tioga (North)     GE OST       SLLP        694%      N/A       N/A
 3)     -Tioga (Em North)  GE OST       SLLP                  N/A       N/A
 4) D602F-Dorsey           ATP ???      SLINOS      325%      N/A       N/A
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 5)      -Forbes (Normal)  ATP ???      SLINOS       205%      N/A       N/A
 6)      -Forbes (Em Nrth) APT S-PRO    SLINOS                 N/A       N/A
 8) F3M-Intl Falls         APT S-PRO    SLINOS       315%      N/A       N/A
 9) G82R-Rugby             APT          SLINOS       N/A      1329%
10) L20D-Drayton (Normal)  APT, ASEA    SLINOS      1094%      N/A       N/A
11)     -Drayton (Em Nrth) ASEA RXZF2   SLINOS                 N/A       N/A
12) R50M-Moranville (Norm) APT, West    SLINOS       879%      N/A       N/A
13)     -Moranville (Em N) ASEA RXZF2   SLINOS                 N/A       N/A

     SIMULATION CHECKS FOLLOW:
+    ________________________

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 ITER DELTAV/TOL X------ AT BUS ------X  REAL(DELTAV)  IMAG(DELTAV)
    1    48.135  67171 [MBPP-1  230.00]   -0.4015E-04    0.2655E-04
    2    15.296  67171 [MBPP-1  230.00]   -0.1329E-04    0.7576E-05
    3     5.569  67171 [MBPP-1  230.00]    0.4259E-05   -0.3589E-05
    4     2.086  67171 [MBPP-1  230.00]   -0.1606E-05    0.1330E-05
    5     0.819  67171 [MBPP-1  230.00]    0.6450E-06   -0.5055E-06

 REACHED TOLERANCE IN   5 ITERATIONS

 LARGEST MISMATCH:    0.00 MW    0.01 MVAR     0.01 MVA AT BUS 36023 [SLINE; B138.00]
 SYSTEM TOTAL ABSOLUTE MISMATCH:               0.33 MVA

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 INITIAL CONDITION LOAD FLOW USED  1 ITERATIONS

 ****************************************************************************

 INITIAL CONDITIONS SUSPECT:
     I   DSTATE(I)    STATE(I)     MODEL   STATE    BUS  X--- NAME ---X   ID
 19523  -0.30413E-02 -0.22715      IEEEX1   K+2   59823  MOCTG1 113.800   1
 19952  -0.12614E-02  0.10000      IEEET1   K+1   63802  CBLUF33G24.000   3
 19968  -0.78183E-02  0.10000      IEEET1   K+1   63882  NEAL  2G20.000   2
 19972  -0.57429E-02  0.10000      IEEET1   K+1   63883  NEAL  3G22.000   3
 19976  -0.48500E-02  0.10000      IEEET1   K+1   63884  NEAL  4G24.000   4
 20033  -0.24382E-02  0.10000      IEEET1   K+1   64496  AMES 8  69.000   8
 20092  -0.18895E-02 -0.14396      IEEET1   K+1   65301  FT CAL1G22.000   1
 22050   0.29647E-04 -0.22582E-02  IEEET1   K+1   93518  OK C G6 18.000   H
 24934   0.26199     -0.47962E-01  GASTWD   K+5   65314  SARPY 4G13.800   4
 27811   0.40143      0.17527      GAST2A   K+5   68347  CORYGT1G13.800   1
 27824   0.45155      0.98846E-02  GAST2A   K+5   68348  CORYGT2G13.800   2
 27839   0.47956     -0.82564E-01  GAST2A   K+5   68367  MERGT 1G13.800   1
 27852   0.47956     -0.82564E-01  GAST2A   K+5   68368  MERGT 2G13.800   2
 28070  -0.46492E-03  0.16854E-01  CGECN2   K+7   91008  MEC BV  0.5750   1
 28961  -0.25194       4.3804      IEEET1   K+1   63710  WISDOM 869.000   1
 28965  -0.29168       3.9423      IEEET1   K+1   63710  WISDOM 869.000   2
 29005  -0.26848       2.0140      IEEET1   K+1   66581  SPENCER869.000   1
 29082   0.42596     -0.33565      GAST2A   K+5   34910  EMERYGT118.000   1
 29095   0.42596     -0.33565      GAST2A   K+5   34911  EMERYGT218.000   1
 29118    2.8995      -8.5685      GAST2A   K+5    7998  WTV-GEN 22.000   1


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     LINE SWITCHING EVENTS FOLLOW:
+    _____________________________


     MHEB DC REDUCTIONS FOLLOW:
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+    _________________________

     NETWORK NOT CONVERGED FOLLOW:
+    ____________________________

     RELOUV AND RELOUF SWITCHING EVENTS FOLLOW:
+    __________________________________________

     DC SWITCHING EVENTS FOLLOW:
+    ___________________________

     VSCAN EVENTS FOLLOW:
+    ____________________
```



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     PI 4 KV EVENTS FOLLOW:
+    ______________________

     RELAY SCAN EVENTS FOLLOW:
+    _________________________

     FARGO/WATERTOWN SVS EVENTS FOLLOW:
+    __________________________________

     UDHOLD EVENTS FOLLOW:
+    ____________________

     DYNAMIC VOLTAGE CHECKS FOLLOW:
+    ______________________________

         FROM TIME      0.4000 TO TIME      5.0000
```

CHAN NO.	DESCRIPTION	PU VOLT MAX .LT.	PU VOLT MIN .GT.	MINIMUM VOLT	MINIMUM TIME	MAXIMUM VOLT	MAXIMUM TIME	VMAX LESS VMIN
444	67503 DORSEY	1.25	0.70	1.04	1.09	1.05	2.29	0.01
386	61624 FORBES	1.15	0.82	0.99	1.17	1.00	3.82	0.01
384	61615 ARROWHD	1.15	0.82	1.02	1.09	1.03	2.42	0.01
382	61612 RIVERTN	1.15	0.75	0.98	1.19	0.99	2.42	0.01
362	66752 DRAYTON	1.20	0.80	1.02	1.12	1.03	2.34	0.01
562	63229 WAHPETN	1.18	0.80	1.01	1.14	1.01	3.39	0.00
350	67104 TIOGA4	1.15	0.80	1.03	1.22	1.04	2.34	0.01
392	63030 DICKNSN	1.17	0.70	1.02	0.42	1.03	2.32	0.01
390	63041 COAL CR	1.18	0.70	1.03	0.42	1.04	2.17	0.01
334	66529 WATERTN	1.18	0.75	1.02	0.52	1.03	2.39	0.01
360	67160 GROTON	1.15	0.70	1.01	0.89	1.02	2.34	0.01
553	61754 BOISE	1.15	0.82	1.00	1.22	1.02	2.29	0.02

```
     POWERFLOW WARNINGS AT END OF SIMULATION FOLLOW:
+    ____________________________________________

BUSES WITH VOLTAGE GREATER THAN 1.1000:
X------ BUS -----X AREA V(PU)  V(KV)    X------ BUS -----X AREA V(PU)  V(KV)
67556 WHTSL1 4 220 667 1.1041 242.89    67589 WHTSL2 4 220 667 1.1040 242.89
67770 SK1 SUB7 110 667 1.1461 126.07    67771 STAR LK7 110 667 1.1448 125.93

BUSES WITH VOLTAGE LESS THAN 0.9500:
X------ BUS -----X AREA V(PU)  V(KV)    X------ BUS -----X AREA V(PU)  V(KV)
60149 MINVALT4 230 600 0.9466 217.72    60150 MNVLTAP4 230 600 0.9467 217.74
60156 PYNSVIL7 115 600 0.9490 109.13    60189 BLK DOG4 230 600 0.9230 212.30
60898 GLENCOE  115 600 0.8875 102.07    62001 BENSON 7 115 626 0.9442 108.58
62005 KERKHOT7 115 600 0.9318 107.16    62006 KERKHO 7 115 626 0.9378 107.85
62425 WILLMAR7 115 618 0.8966 103.11    62980 MCLEOD 4 230 618 0.8911 204.95
62981 MCLEOD 7 115 618 0.8940 102.81    62982 HTCHMN 7 115 618 0.8965 103.10
62983 HUTCH3M7 115 618 0.8960 103.04    63050 WILLMAR4 230 618 0.9345 214.94
63054 PANTHER4 230 600 0.9029 207.67    66789 BEMIDJIT 115 626 0.9328 107.27
69515 HLSBORO5 161 680 0.9310 149.89

 BRANCH CURRENT LOADINGS ABOVE 100.0 % OF RATING SET A
+       _______
X-------FROM BUS-------X  X--------TO BUS--------X       CURRENT(MVA)
  BUS    NAME  BSKV AREA    BUS    NAME  BSKV AREA CKT LOADING  RATING PERCENT
60107  W FARIB7 115  600  60265* LOON TP7 115  600  1    253.9   119.0   213.3
60108  WILMART3 345  600  60331* LKFLDXL3 345  600  1    858.4   574.0   149.6
60150  MNVLTAP4 230  600  63054* PANTHER4 230  600  1    420.4   388.0   108.4
60150* MNVLTAP4 230  600  66550  GRANITF4 230  652  1    436.1   318.0   137.1
60156  PYNSVIL7 115  600  62425* WILLMAR7 115  618  1    140.7    77.0   182.8
60197* CHIS CO2 500  600  60198  CHIS-N 2 500  600  1   1947.6  1732.0   112.4
60286* NOBLES 3 345  600  60287  NOBLES 7 115  600  1    471.6   448.0   105.3
60357* MAYNARD7 115  600  62005  KERKHOT7 115  600  1     78.9    78.0   101.1
62005* KERKHOT7 115  600  62425  WILLMAR7 115  618  1    111.6    77.0   145.0
62234  LKMARN 7 115  600  62865* AIRTECH7 115  600  1    154.2   139.0   110.9
62980  MCLEOD 4 230  618  63054* PANTHER4 230  600  1    366.0   319.0   114.7
63801* CBLUFFS5 161  635  63817  BUNGE 5  161  635  1    193.8   192.0   101.0
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63908  SAC    5 161  635  64244* SAC GEN  161  635  1    139.1   136.0   102.3
64203  NW FTDG5 161  635  64230* POMEROY5 161  635  1    175.8   136.0   129.3
64239* FRANKLN5 161  635  64285  BUTLER 5 161  635  1    234.7   181.0   129.6
    *** BRANCH OVERCURRENT SEARCH TERMINATED AT 15 RECORDS ***

 TRANSFORMER MVA LOADINGS ABOVE 100.0 % OF RATING SET A
+            ___
X-------FROM BUS-------X  X--------TO BUS--------X       MVA      MVA
  BUS    NAME  BSKV AREA    BUS    NAME  BSKV AREA CKT LOADING  RATING PERCENT
60286* NOBLES 3 345  600  60287  NOBLES 7 115  600  1    484.9   448.0   108.2

--------------------------------------------------------------------------------
          FAST SWITCH CAPACITOR PERFORMANCE:

     BUSNUM  BUS NAME    # CAPS   SIZE    SSON    FINAL   AVAIL
      63056  BALTAJCT       3      60       0       0       3
      60305  EAU CLA5       4      89       4       4       0
      60234  PARKERS7       3      80       3       3       0
      60116  PRASWCP7      12      40       1       1      11
      63047  RAMSEY 4       2      30       0       0       2
      60168  ROSSWCP4       2      30       0       0       2
      60167  RUNSWCP4       6      30       1       1       5
      60172  SHYSWCP7       5      40       1       1       4
      60129  SPLT RK7       2      80       1       2       0


--------------------------------------------------------------------------------
          INITIAL **NORMAL** RELAY MARGINS/IMPEDENCES (ZRE/ZIM):     VIOLATION *

     B10T : RELAY MARGIN AT TIOGA IS            :    338 %   -0.6430    0.1094 N
     G82R : RELAY MARGIN AT RUGBY IS            :    999 %    1.9205   -1.2216 N
```

```
     L20D : RELAY MARGIN AT DRAYTON IS          :    999 %   -0.5325    0.0632 N
     R50M : RELAY MARGIN AT MORANVILLE IS       :    879 %   -0.7104    0.0617 N
     F3M  : RELAY MARGIN AT INT.FALLS IS        :    315 %   -0.6375    0.1464 N
     D602F: RELAY MARGIN AT FORBES IS           :    206 %   -0.0482    0.0194 N
     D602F: RELAY MARGIN AT DORSEY IS           :    325 %    0.0538    0.0136 N
     D602F: RELAY MARGIN AT FORBES (DCAR) IS    :    507 %    0.0000    0.0000 N
-------------------------------------------------------------------------------
          MINIMUM TRANSIENT RELAY MARGINS: START TIME:  0.27500 SEC, VIOLATION *

     B10T : RELAY MARGIN AT TIOGA IS            :    288 %  AT TIME=   1.33328 N
     G82R : RELAY MARGIN AT RUGBY IS            :    999 %  AT TIME=   0.00000 N
     L20D : RELAY MARGIN AT DRAYTON IS          :    999 %  AT TIME=   0.00000 N
     R50M : RELAY MARGIN AT MORANVILLE IS       :    827 %  AT TIME=   1.28328 N
     F3M  : RELAY MARGIN AT INT. FALLS IS       :    289 %  AT TIME=   1.33328 N
     D602F: RELAY MARGIN AT FORBES IS           :    187 %  AT TIME=   1.26662 N
     D602F: RELAY MARGIN AT DORSEY IS           :    293 %  AT TIME=   1.26662 N
     D602F: RELAY MARGIN AT FORBES (DCAR)       :    496 %  AT TIME=   0.73330 N
-------------------------------------------------------------------------------
          OH - MH TRANSIENT PERFORMANCE:

     OH-MH: INITIAL OH-MH POWER, KENORA ANGLE   :  -197.3 MW        91.7 DEG
     OH-MH: MAX +  MW CHANGE @TIME, DLT ANGLE   :    10.4 MW  @  2.71655,   -6.8
     OH-MH: MAX -  MW CHANGE @TIME, DLT ANGLE   :     0.9 MW  @  0.56664,    0.4
     OH-MH: MAX ANGLE CHANGE @TIME, DLT POWER   :    -6.8 DEG @  2.58323,   10.0
-------------------------------------------------------------------------------
          RELAY MARGINS/IMPEDANCES (ZRE,ZIM)/FLOWS AT TIME=   5.00815

     B10T : RELAY MARGIN AT TIOGA IS            :    318 %   -0.6179    0.1040
     G82R : RELAY MARGIN AT RUGBY IS            :    999 %    2.0811   -1.5246
     L20D : RELAY MARGIN AT DRAYTON IS          :    999 %   -0.5123    0.0630
     R50M : RELAY MARGIN AT MORANVILLE IS       :    871 %   -0.7059    0.0593
     F3M  : RELAY MARGIN AT INT. FALLS IS       :    307 %   -0.6268    0.1376
     D602F: RELAY MARGIN AT FORBES IS           :    201 %   -0.0476    0.0195
     D602F: RELAY MARGIN AT DORSEY IS           :    318 %    0.0532    0.0136
     D602F: RELAY MARGIN AT FORBES (DCAR) IS    :    603 %    0.2258    1.6129
                           ---------------
     B10T : BOUNDARY DAM PHASE SHIFT FLOW       :   173.8 MVA ( SOUTH )
     F3M  : INTERNATIONAL FALLS PH. SHIFT FLOW  :   156.4 MVA ( SOUTH )
     MH-OH: FINAL OH-MH POWER, KENORA ANGLE     :  -195.0 MW        86.0 DEG
     EWTW : FINAL OH EAST-WEST TIES FLOW        :  -199.2 MW
-------------------------------------------------------------------------------
          USING **NORMAL** RELAYS SETTINGS AS FOLLOWS:

 B10T@TIOGA  : R1= 0.030 X1= 0.348 R2=-0.030 X2=-0.348 P1/2/3=0.223 0.283 0.350
 G82R@RUGBY  : A=  81.9 IN1= 0.250 IN2= 0.100 B=  81.9 IN3= -0.200 IN4= -0.350
 L20D@DRAYTON: A=  80.0 IN1= 0.175 IN2= 0.135 B=  80.0 IN3= -0.095 IN4= -0.136
 R50M@MORANVL: A=  76.3 IN1= 0.345 IN2= 0.245 B=  76.3 IN3= -0.198 IN4= -0.258
 F3M@INT.FALL: A=  76.3 IN1= 0.480 IN2= 0.300 B=  76.3 IN3= -0.200 IN4= -0.350
 D602F@DORSEY: A=  85.0 IN1= 0.041 IN2= 0.026 B=  85.0 IN3= -0.023 IN4= -0.036
 D602F@DORSEY: A=  85.0 IN1= 0.034 IN2= 0.026 B=  85.0 IN3= -0.024 IN4= -0.033
 D602F-DCAR  : ANGLE= 170.0 DCAO= -39.700 DCAI= -49.450
 K21W-DPDARE : XPs=  25.0 XPt= 150.0 XAt=   5.0 YPs=  25.0 YPt=  50.0 YAt=  20.0
 K22W-DPDARE : XPs=  25.0 XPt= 150.0 XAt=   5.0 YPs=  25.0 YPt=  50.0 YAt=  20.0
-------------------------------------------------------------------------------
```

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
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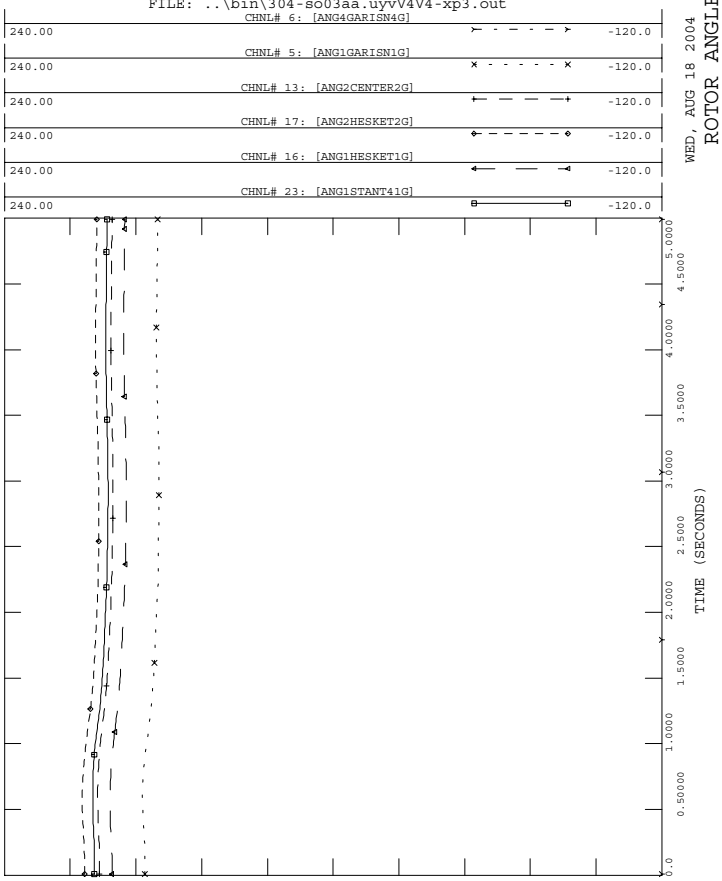
WED, AUG 18 2004 13:43
ROTOR ANGLES 2



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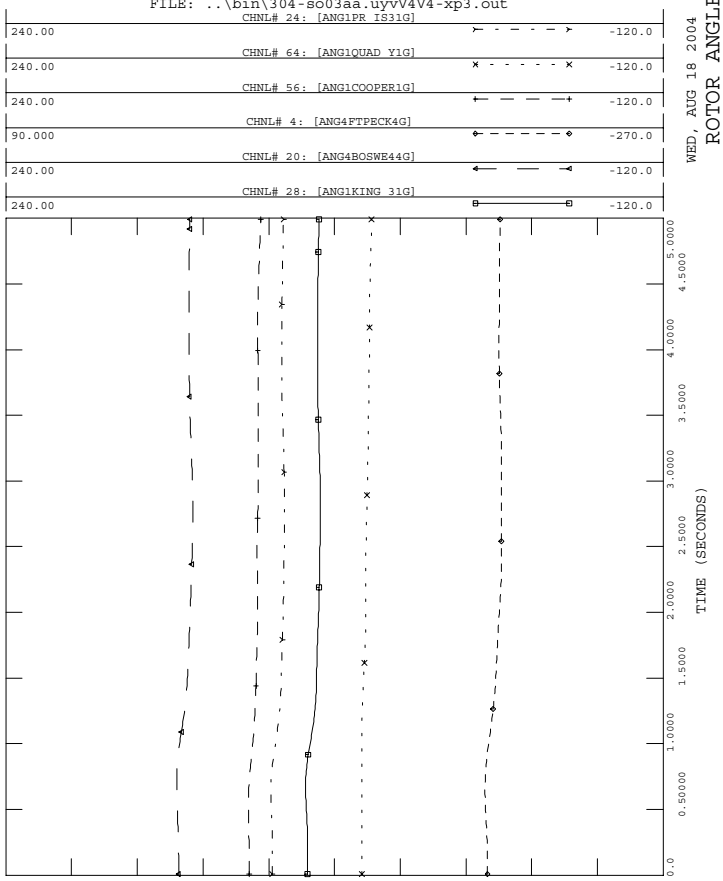

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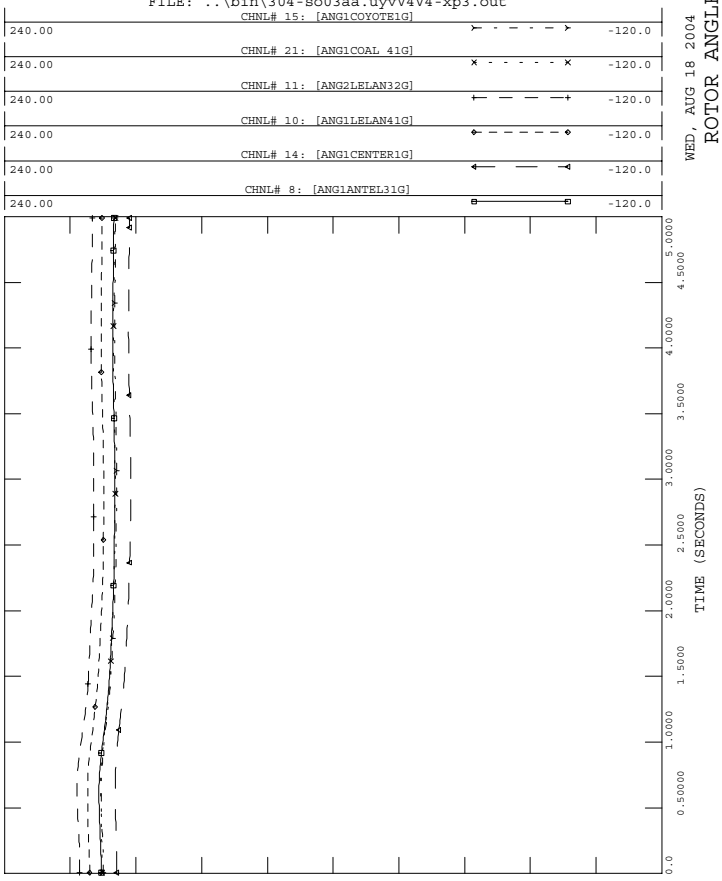

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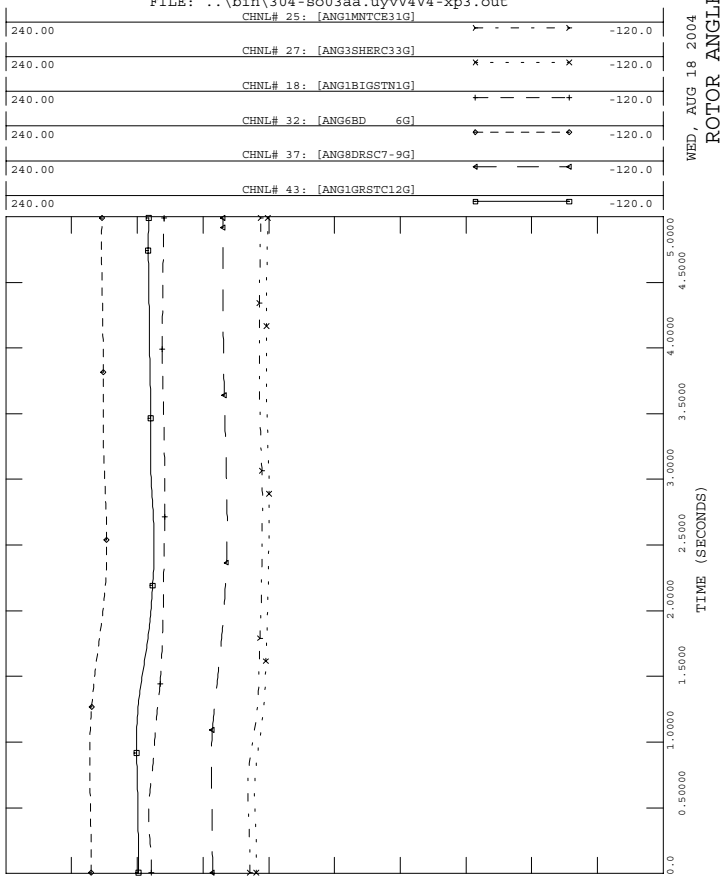
ROTOR ANGLES 3



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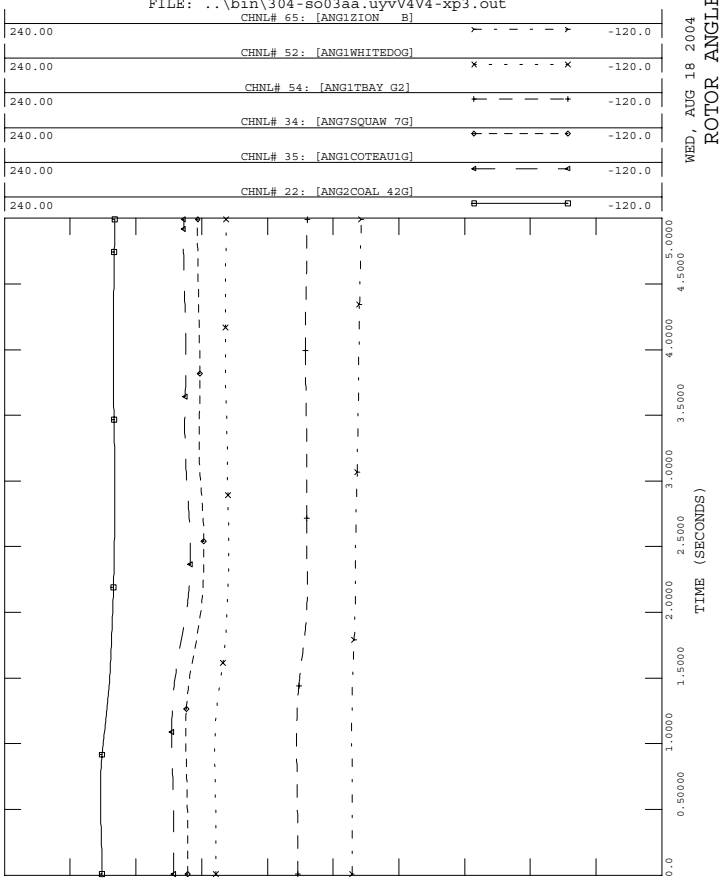

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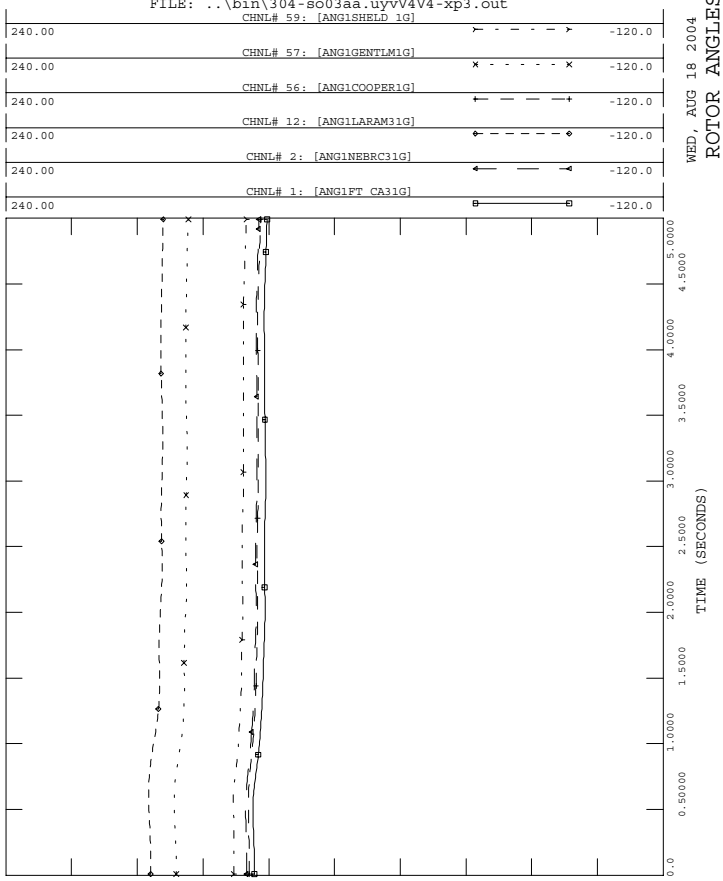

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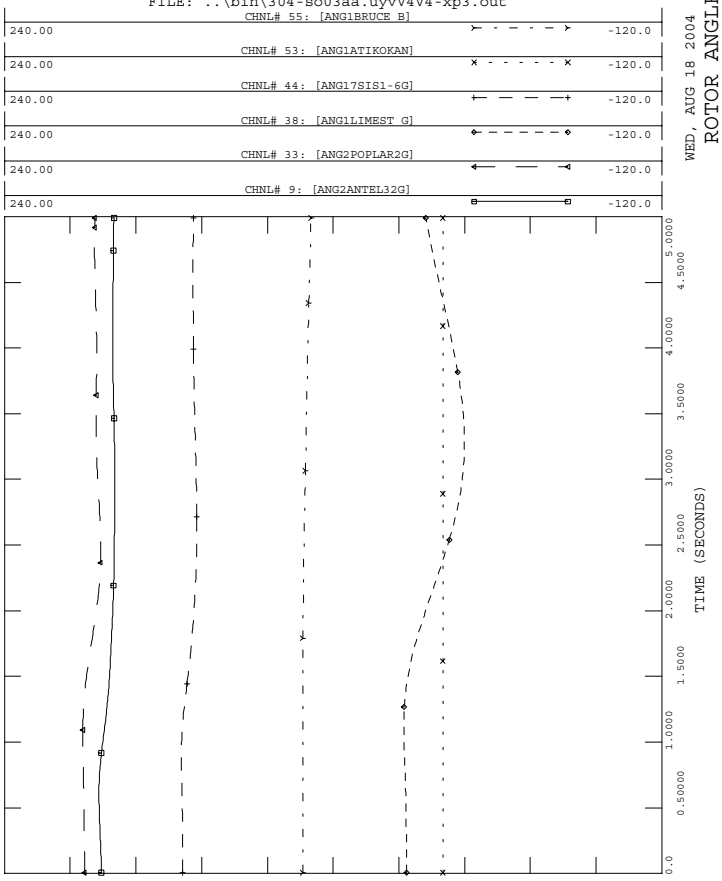

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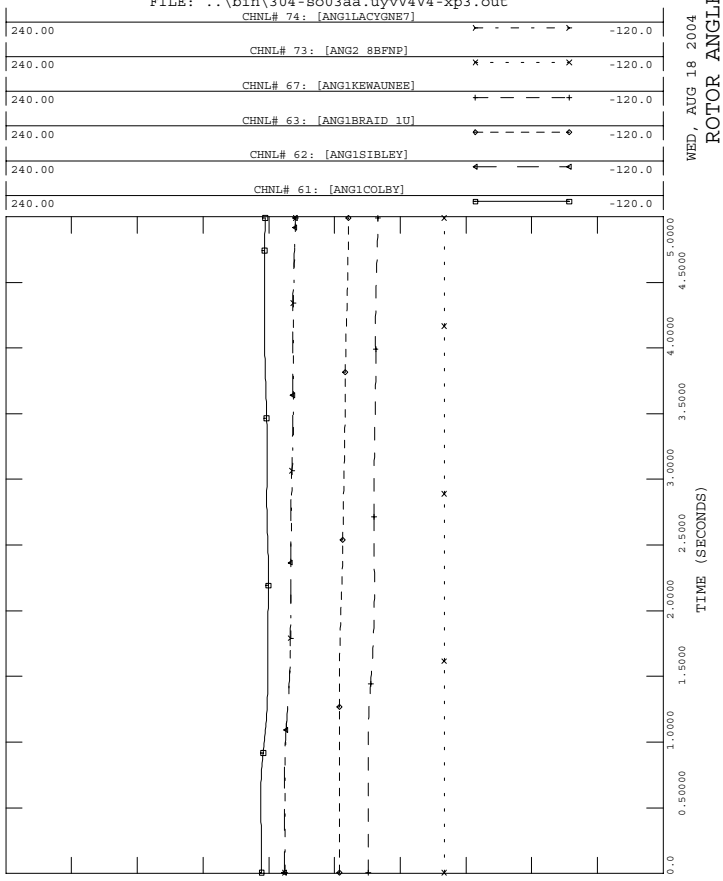

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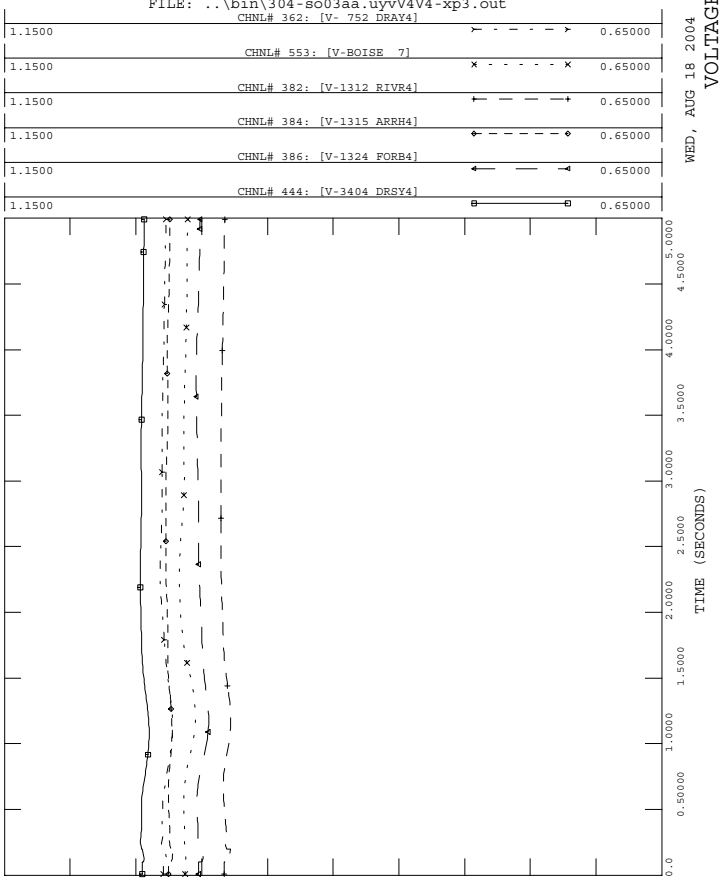
VOLTAGES 1



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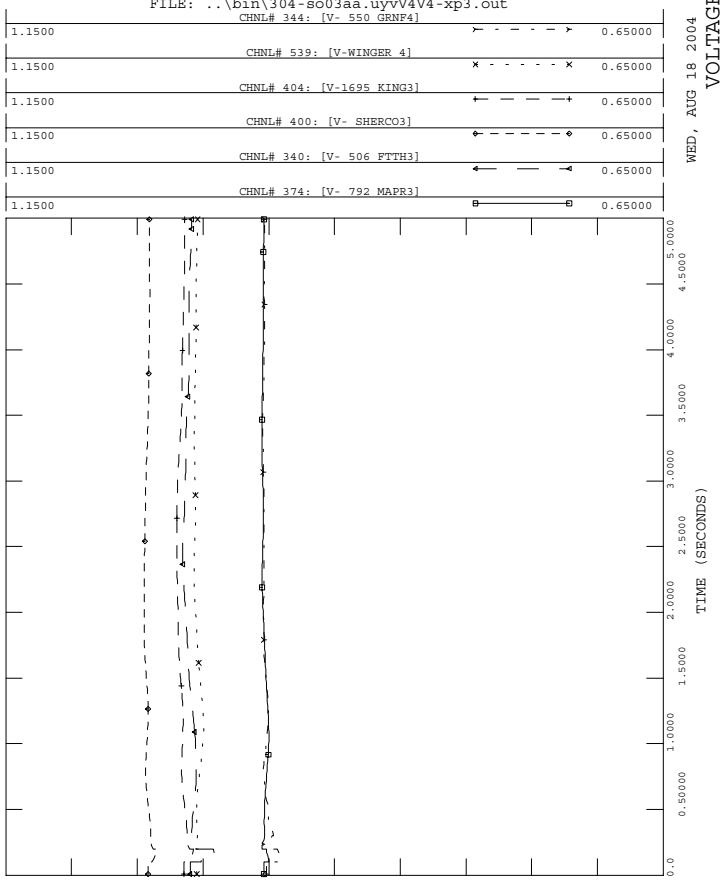
VOLTAGES 3



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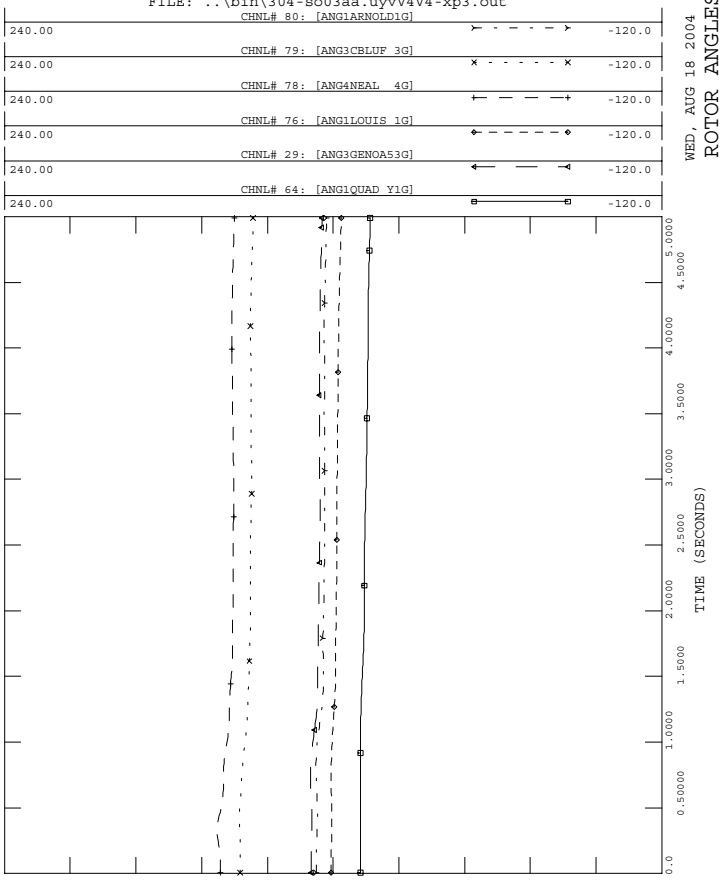

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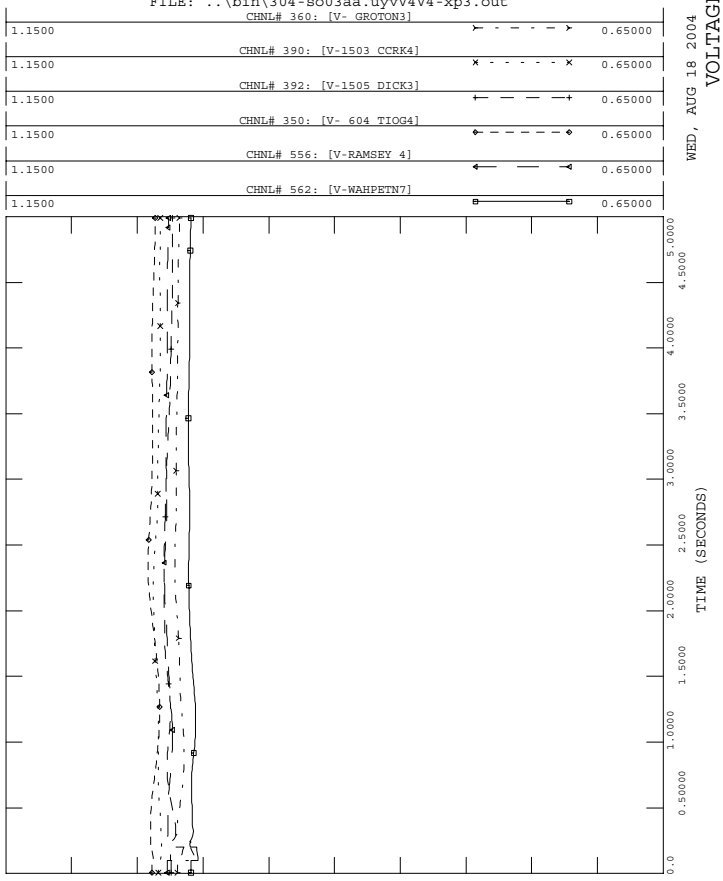
VOLTAGES 2



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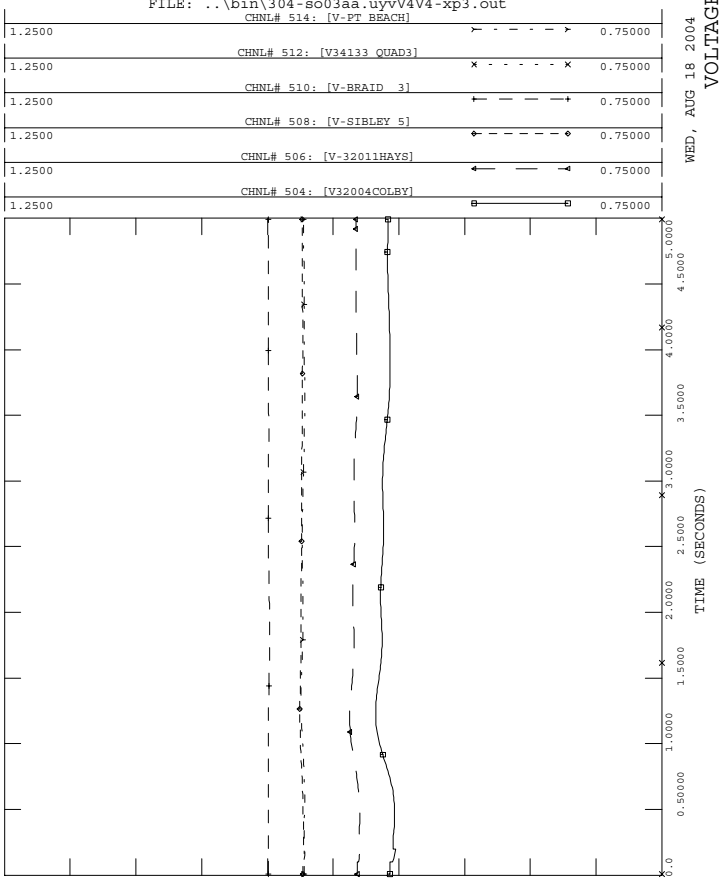

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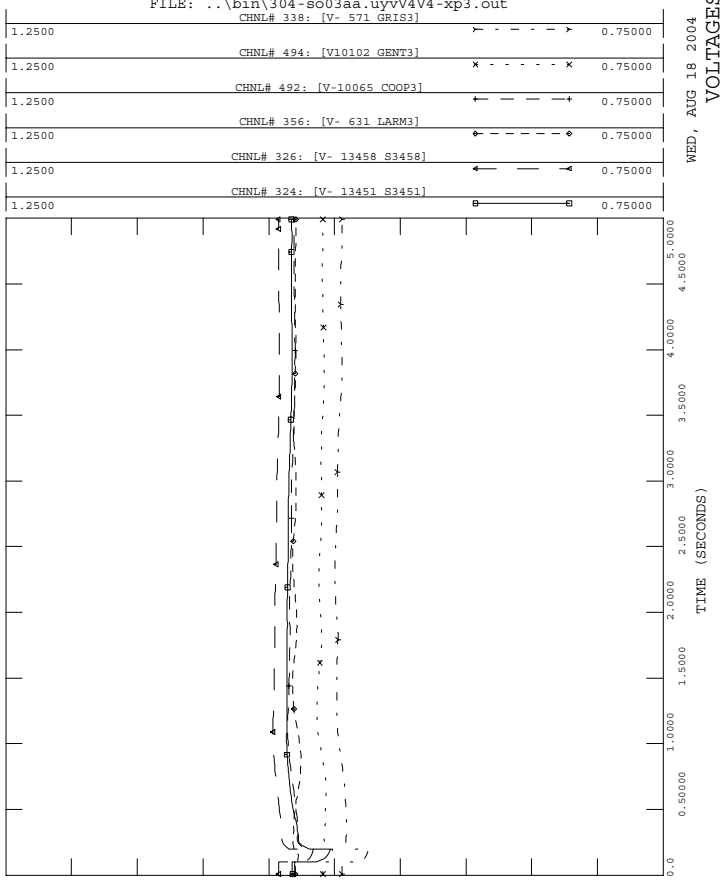
VOLTAGES NB



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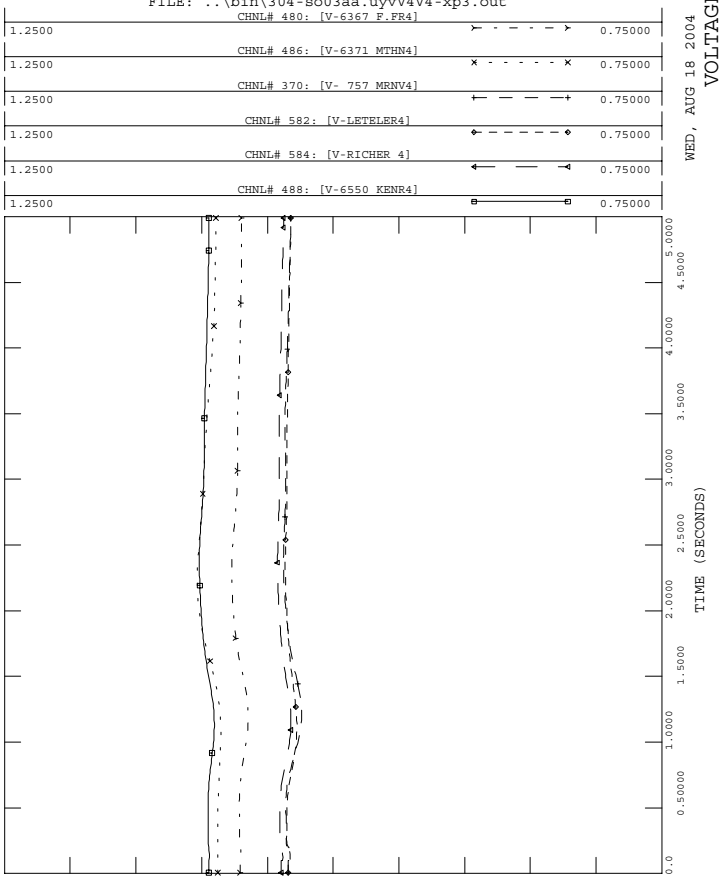

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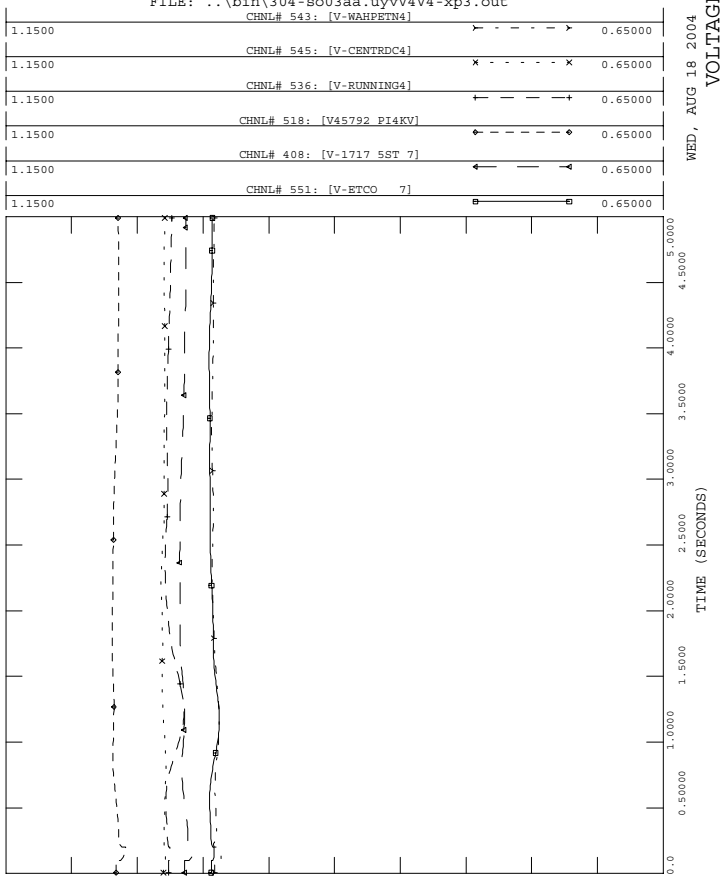
VOLTAGES 6



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CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
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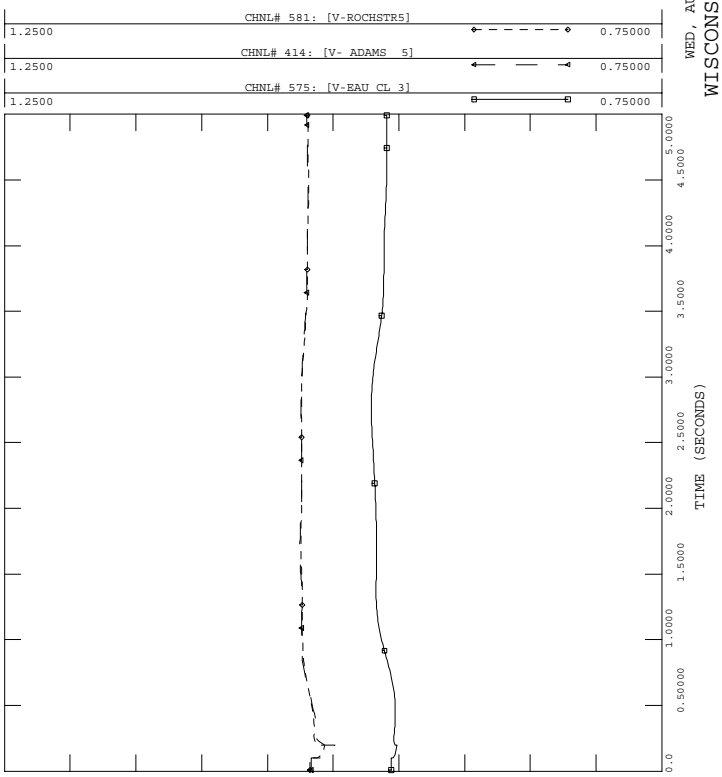
WISCONSIN VOLTAGES



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CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
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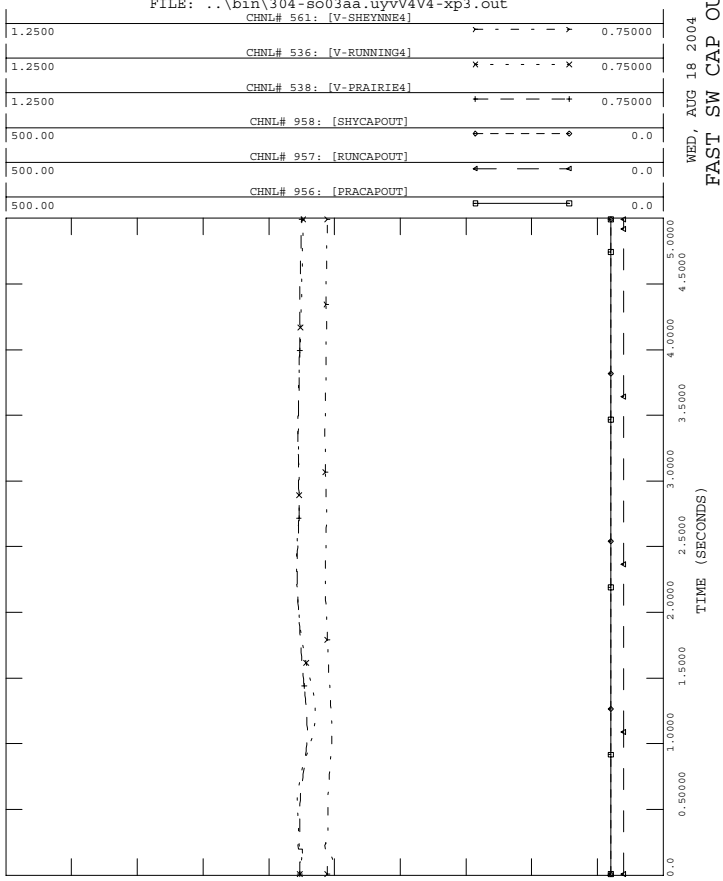
FAST SW CAP OUT 1



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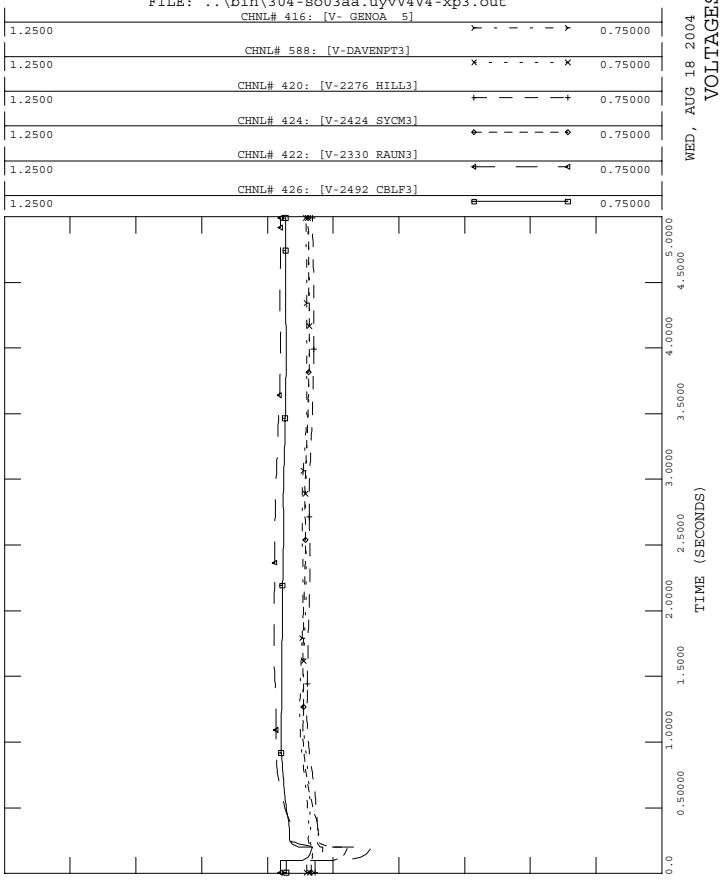
VOLTAGES IA



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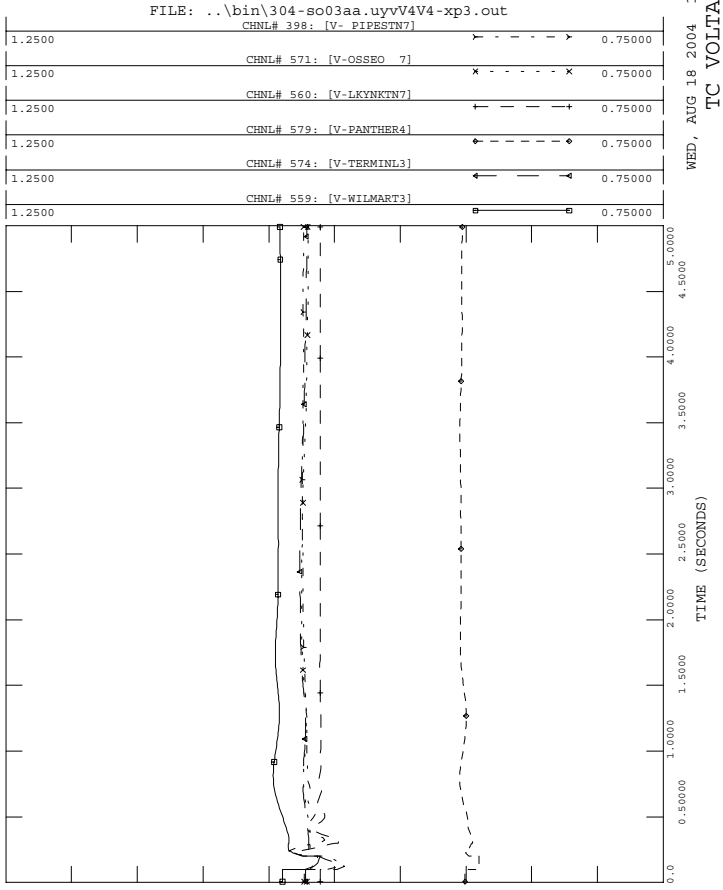
WED, AUG 18 2004 13:43
TC VOLTAGES



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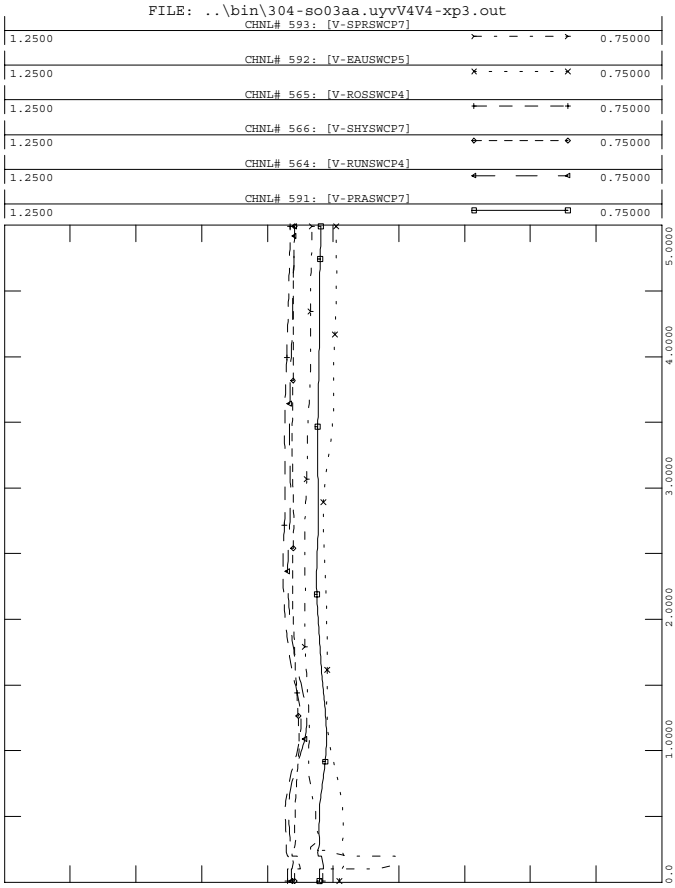
FAST SW CAP VOLTAGES



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CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
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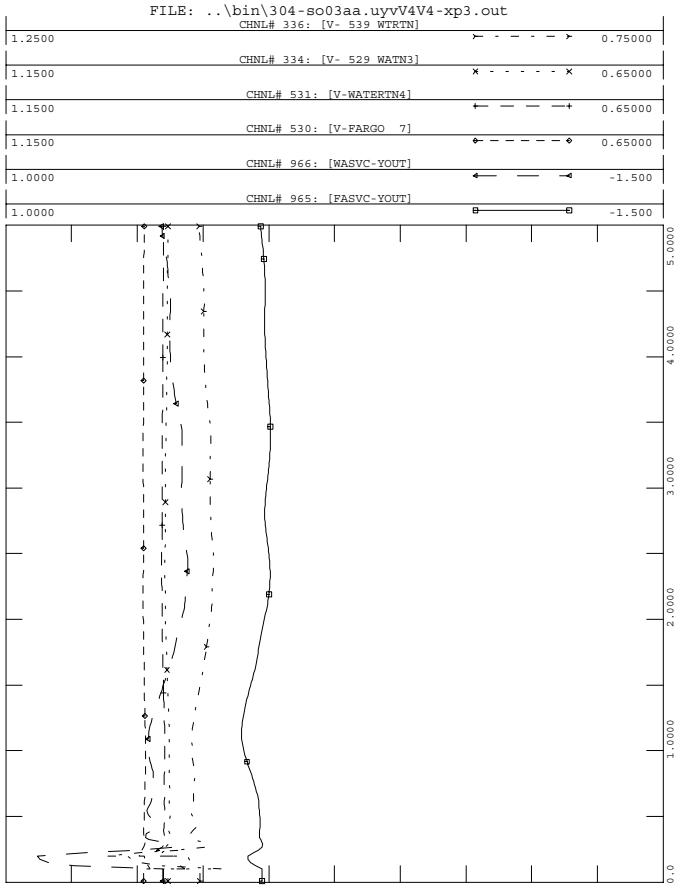
FARGO/WATERTOWN SVS



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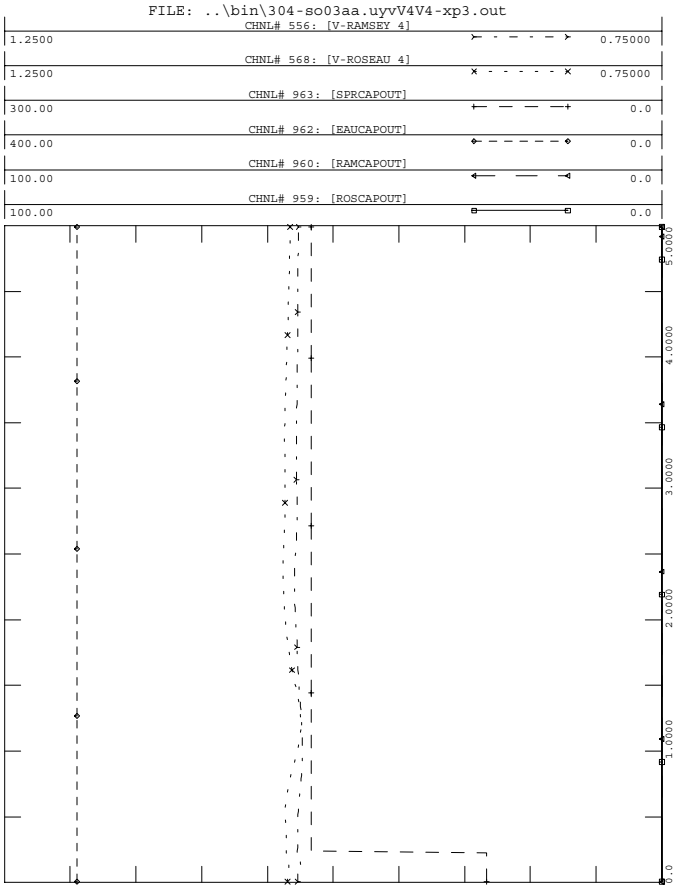
FAST SW CAP OUT 2



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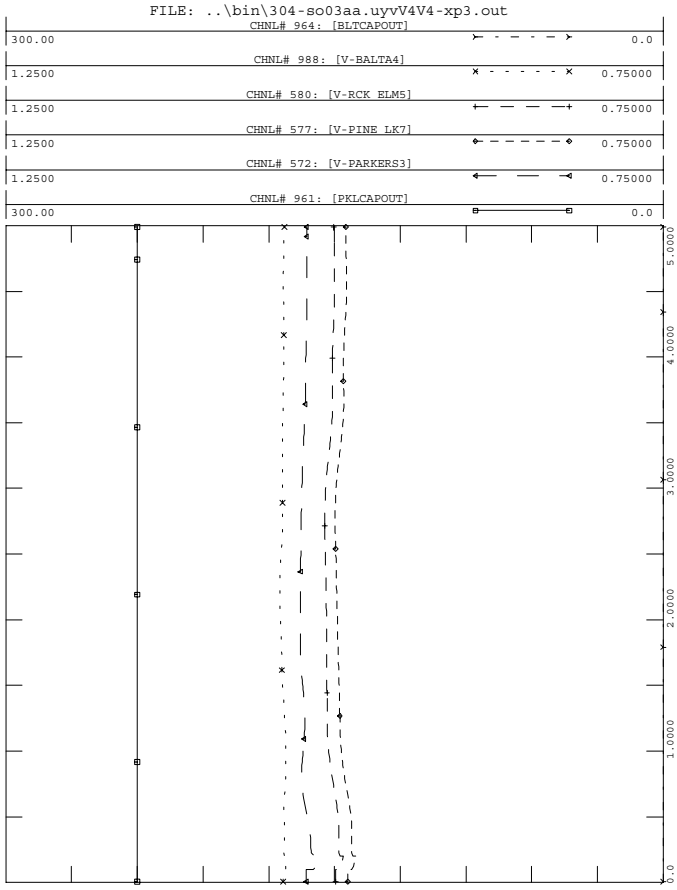
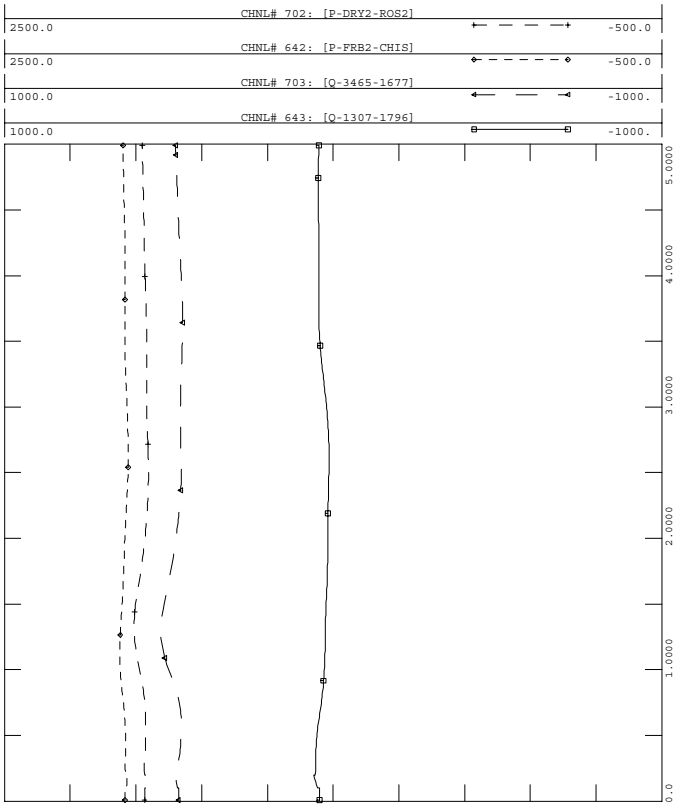
WED, AUG 18 2004 13:43

FAST SW CAP VOLTAGES 2



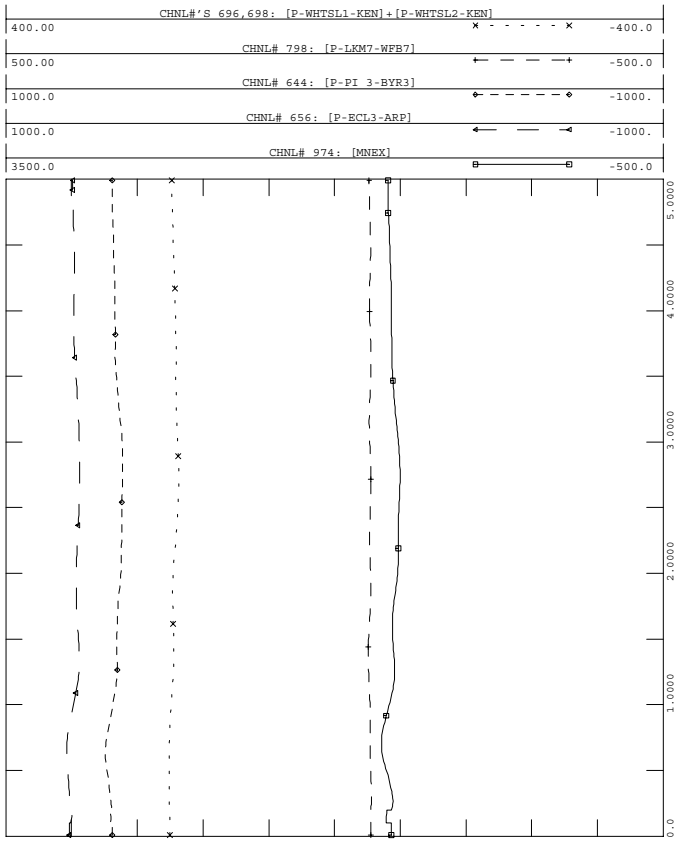
304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

WED, AUG 18 2004 13:43
WTC 500 KV FLOWS



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

WED, AUG 18 2004 13:43
POWER FLOW SUMS 2



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
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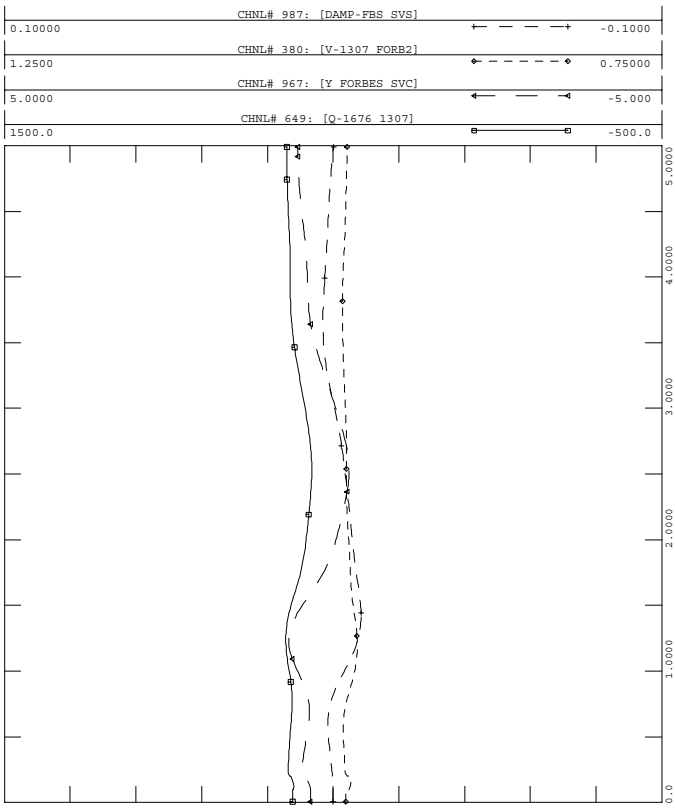
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

WED, AUG 18 2004 13:43
FORBES SVS



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
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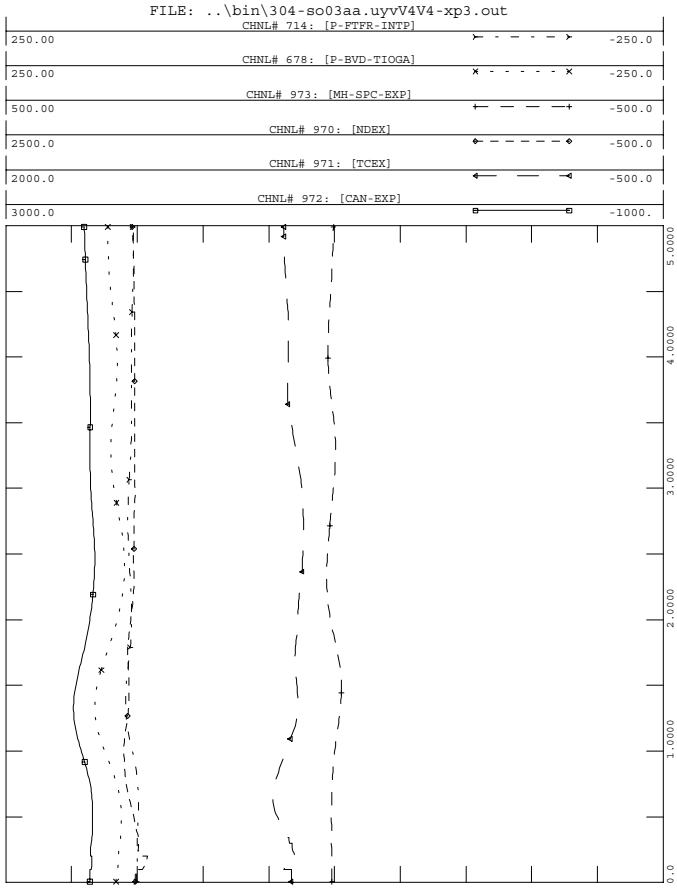
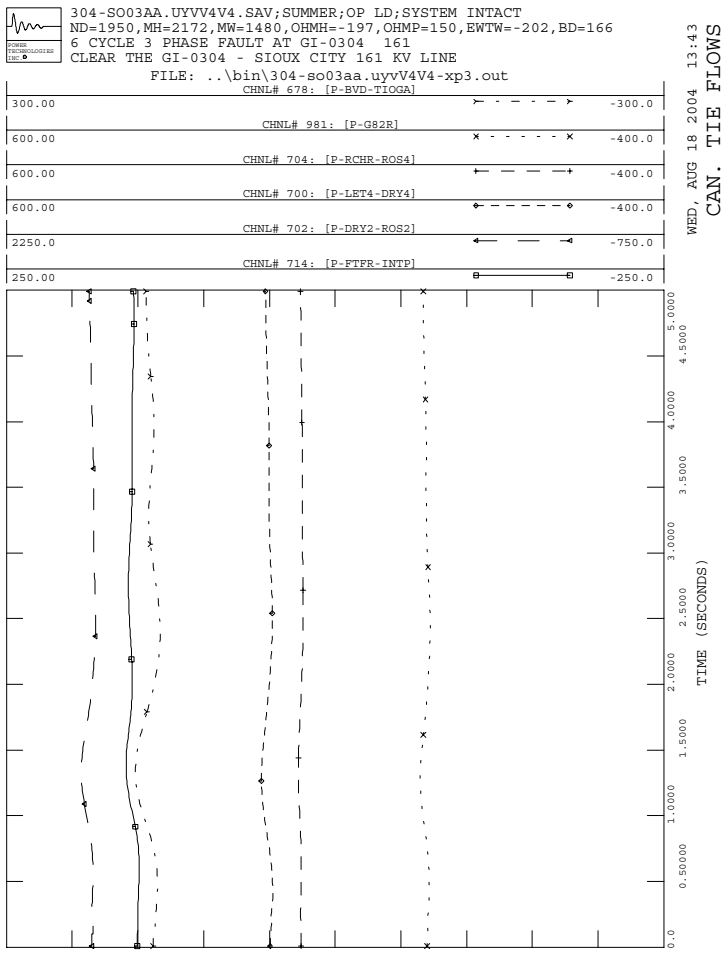
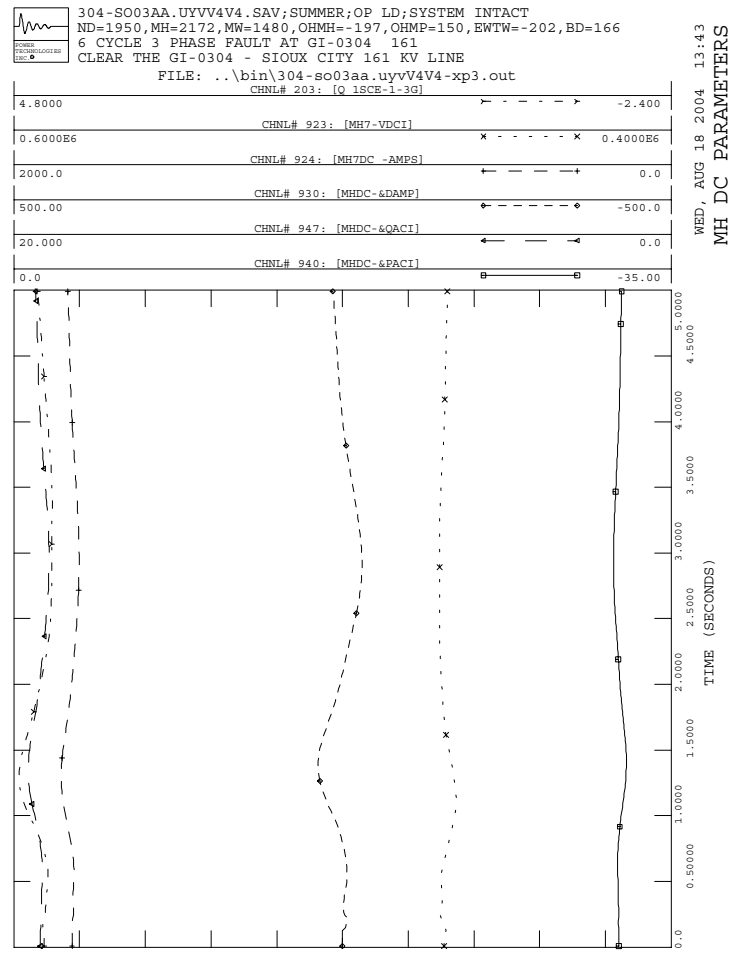
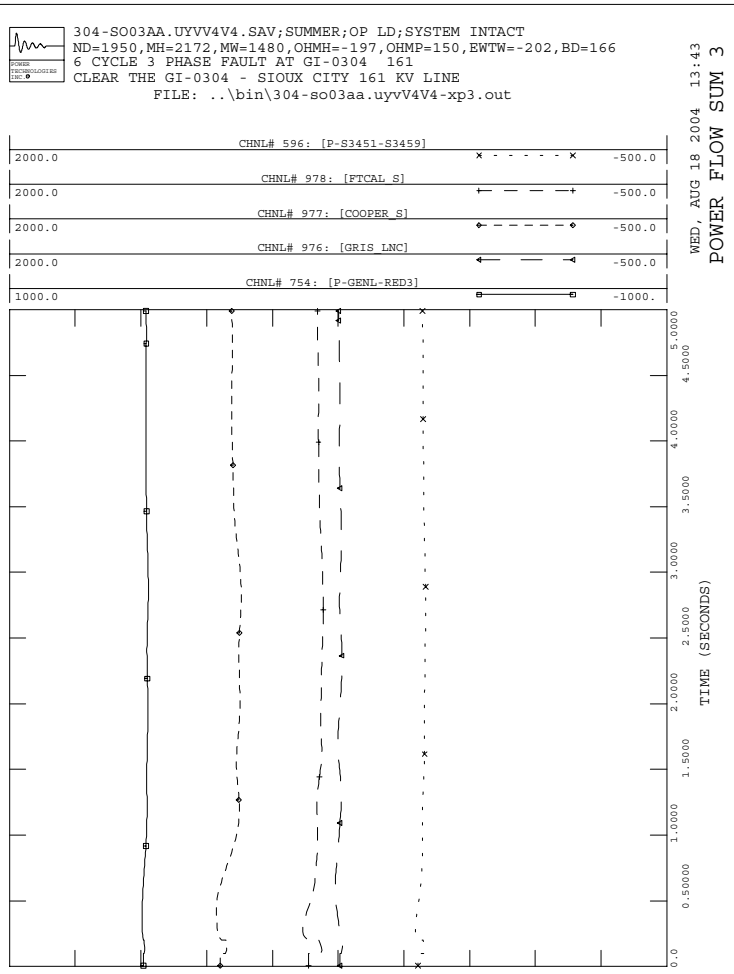
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

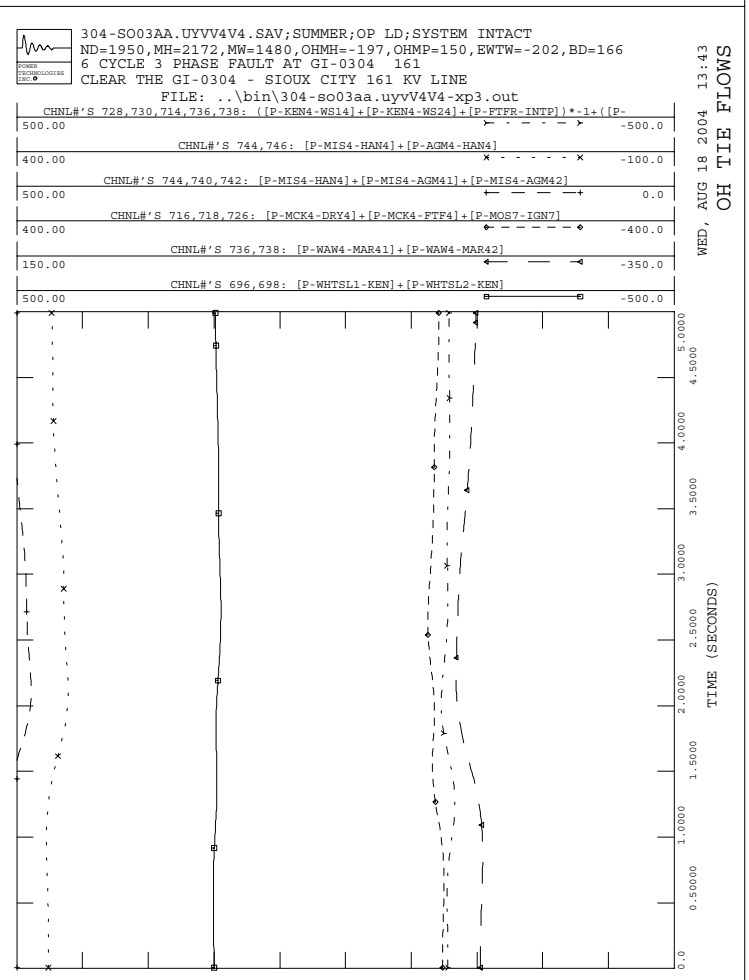
WED, AUG 18 2004 13:43
POWER FLOW SUMS 1




304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out
CHNL# 678: [P-BVD-TIOGA]
300.00
-300.0
CHNL# 981: [P-G82R]
600.00
-400.0
CHNL# 704: [P-RCHR-ROS4]
600.00
-400.0
CHNL# 700: [P-LET4-DRY4]
600.00
-400.0
CHNL# 702: [P-DRY2-ROS2]
2250.0
-750.0
CHNL# 714: [P-FTFR-INTP]
250.00
-250.0
WED, AUG 18 2004 13:43
CAN. TIE FLOWS
TIME (SECONDS)


304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out
CHNL# 203: [Q 1SCE-1-3G]
4.8000
-2.400
CHNL# 923: [MH7-VDCI]
0.6000E6
0.4000E6
CHNL# 924: [MH7DC -AMPS]
2000.0
0.0
CHNL# 930: [MHDC-&DAMP]
500.00
-500.0
CHNL# 947: [MHDC-&QACI]
20.000
0.0
CHNL# 940: [MHDC-&PACI]
0.0
-35.00
WED, AUG 18 2004 13:43
MH DC PARAMETERS
TIME (SECONDS)

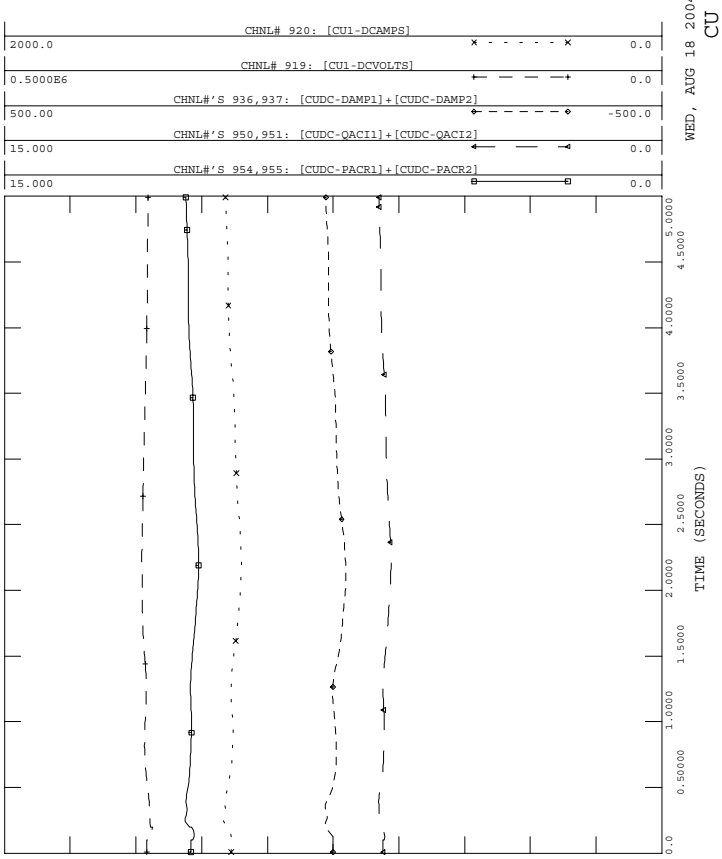

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out
CHNL# 596: [P-S3451-S3459]
2000.0
-500.0
CHNL# 978: [FTCAL S]
2000.0
-500.0
CHNL# 977: [COOPER_S]
2000.0
-500.0
CHNL# 976: [GRIS LNC]
2000.0
-500.0
CHNL# 754: [P-GENL-RED3]
1000.0
-1000.
WED, AUG 18 2004 13:43
POWER FLOW SUM 3
TIME (SECONDS)


304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out
CHNL#'S 728,730,714,736,738: ([P-KEN4-WS14]+[P-KEN4-WS24]+[P-FTFR-INTP])*-1+([P-
500.00
-500.0
CHNL#'S 744,746: [P-MIS4-HAN4]+[P-AGM4-HAN4]
400.00
-100.0
CHNL#'S 744,740,742: [P-MIS4-HAN4]+[P-MIS4-AGM41]+[P-MIS4-AGM42]
500.00
0.0
CHNL#'S 716,718,726: [P-MCK4-DRY4]+[P-MCK4-FTF4]+[P-MOS7-IGN7]
400.00
-400.0
CHNL#'S 736,738: [P-WAW4-MAR41]+[P-WAW4-MAR42]
150.00
-350.0
CHNL#'S 696,698: [P-WHTSL1-KEN]+[P-WHTSL2-KEN]
500.00
-500.0
WED, AUG 18 2004 13:43
OH TIE FLOWS
TIME (SECONDS)

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

WED, AUG 18 2004 13:43

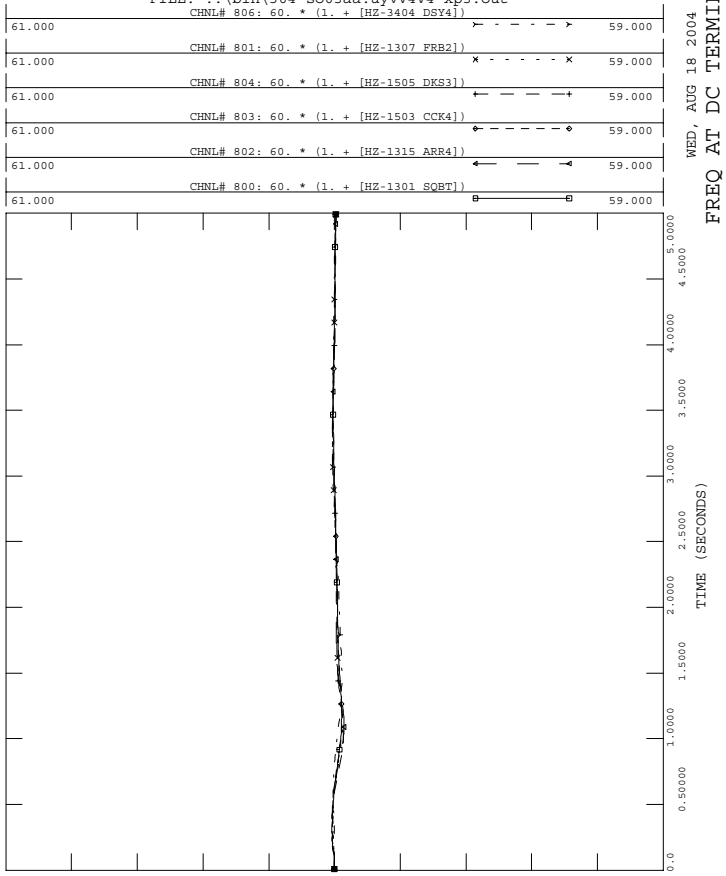
CU DC #1



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

WED, AUG 18 2004 13:43

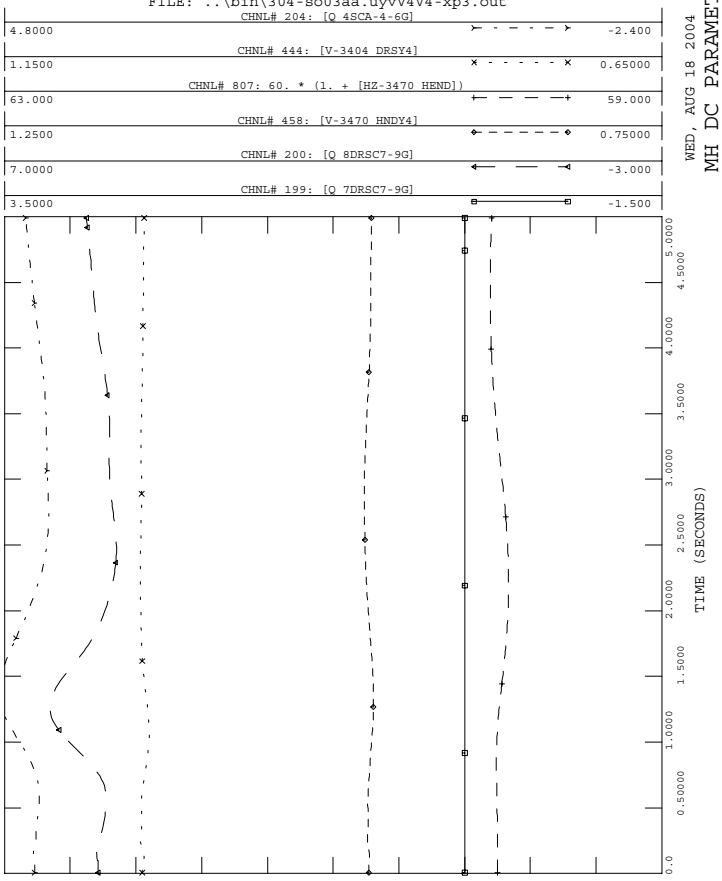
FREQ AT DC TERMINALS



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

WED, AUG 18 2004 13:43

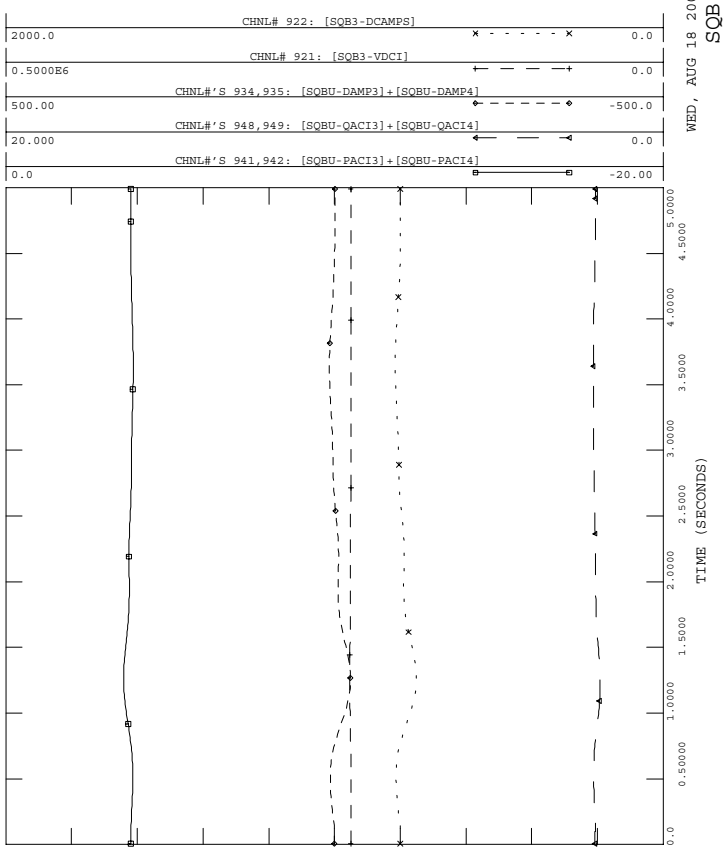
MH DC PARAMETERS

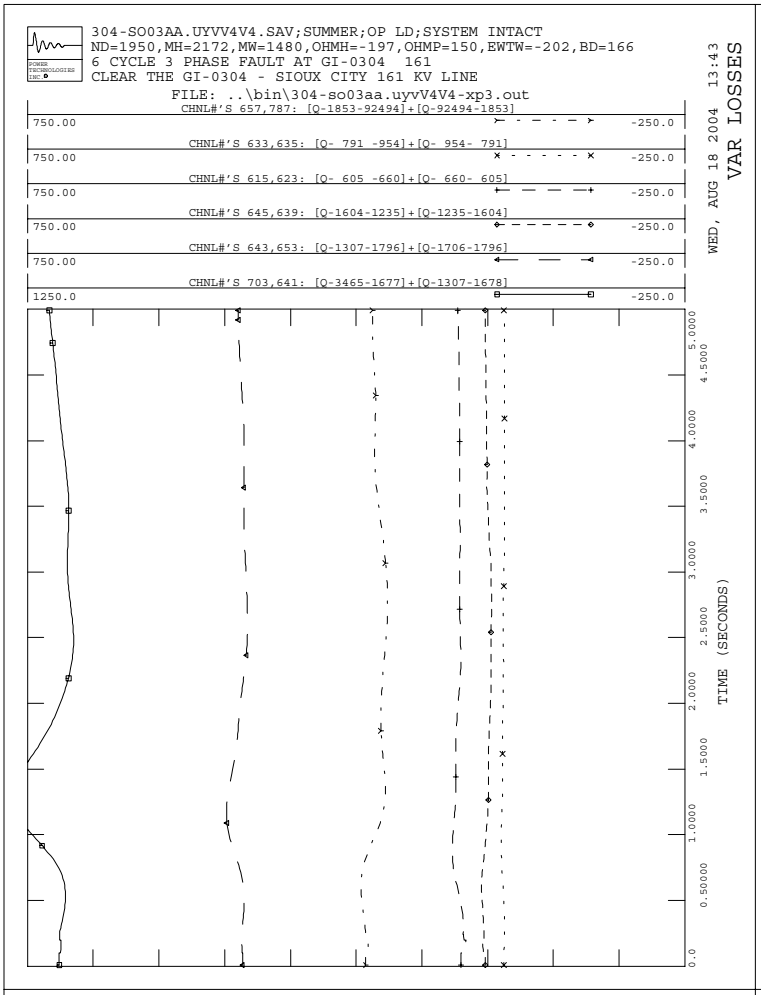


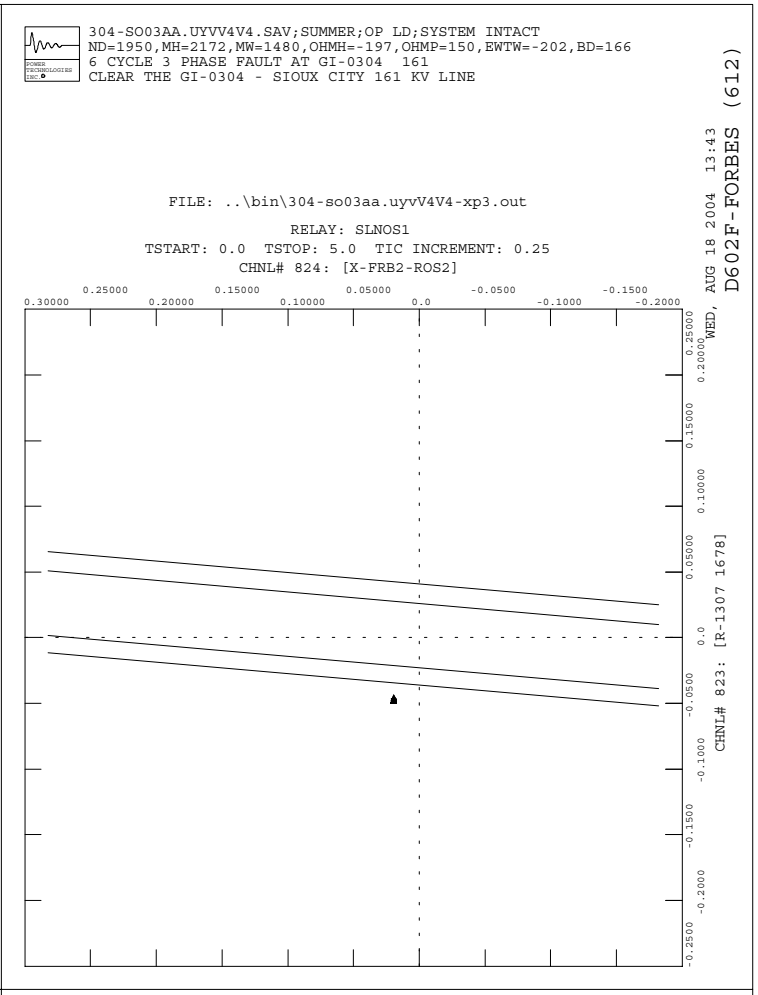
304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

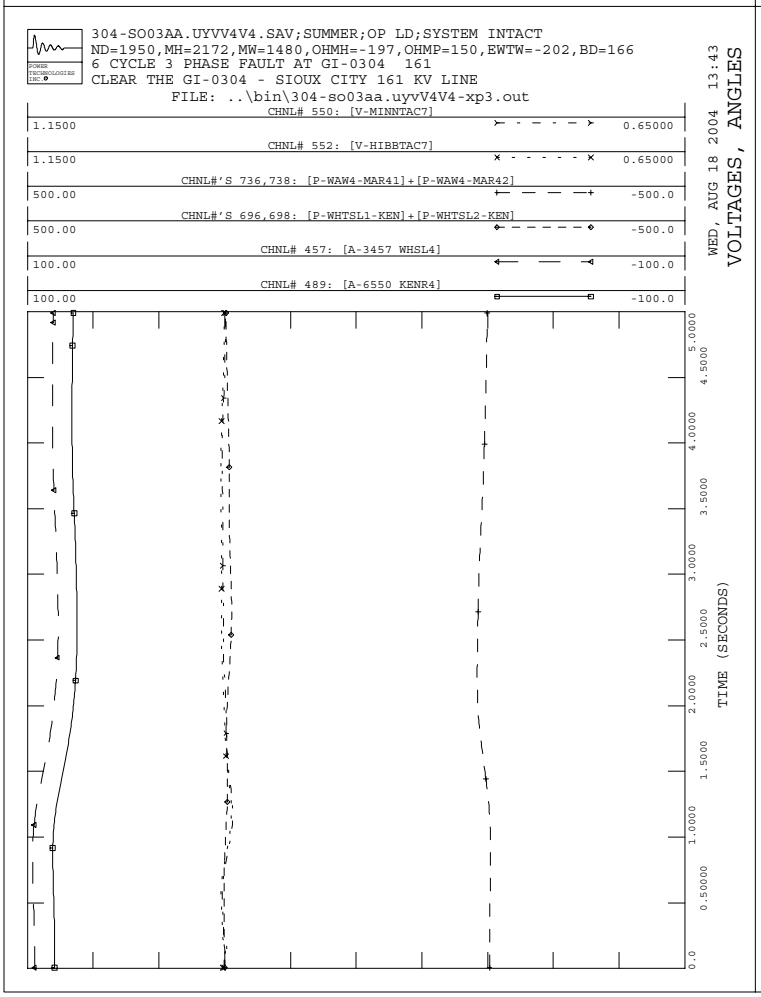
WED, AUG 18 2004 13:43

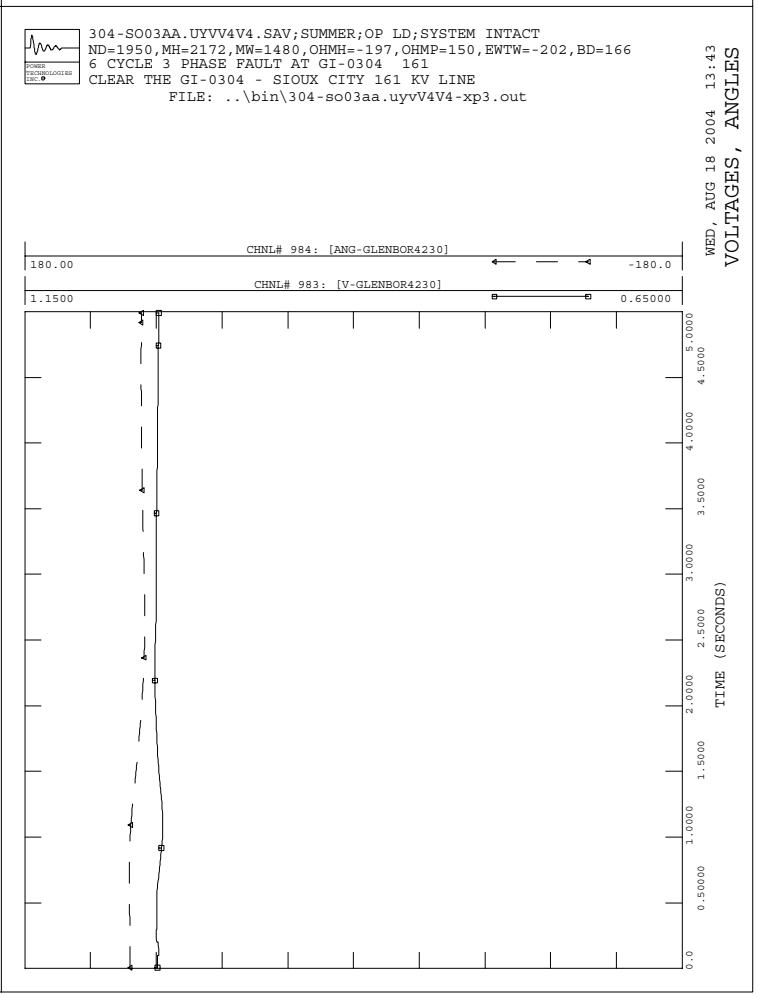
SQB DC #3




304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out
CHNL#'S 657,787: [Q-1853-92494]+[Q-92494-1853]
CHNL#'S 633,635: [Q- 791 -954]+[Q- 954- 791]
CHNL#'S 615,623: [Q- 605 -660]+[Q- 660- 605]
CHNL#'S 645,639: [Q-1604-1235]+[Q-1235-1604]
CHNL#'S 643,653: [Q-1307-1796]+[Q-1706-1796]
CHNL#'S 703,641: [Q-3465-1677]+[Q-1307-1678]
750.00
1250.0
-250.0
WED, AUG 18 2004 13:43
VAR LOSSES
TIME (SECONDS)


304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out
RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 824: [X-FRB2-ROS2]
WED, AUG 18 2004 13:43
D602F-FORBES (612)
CHNL# 823: [R-1307 1678]

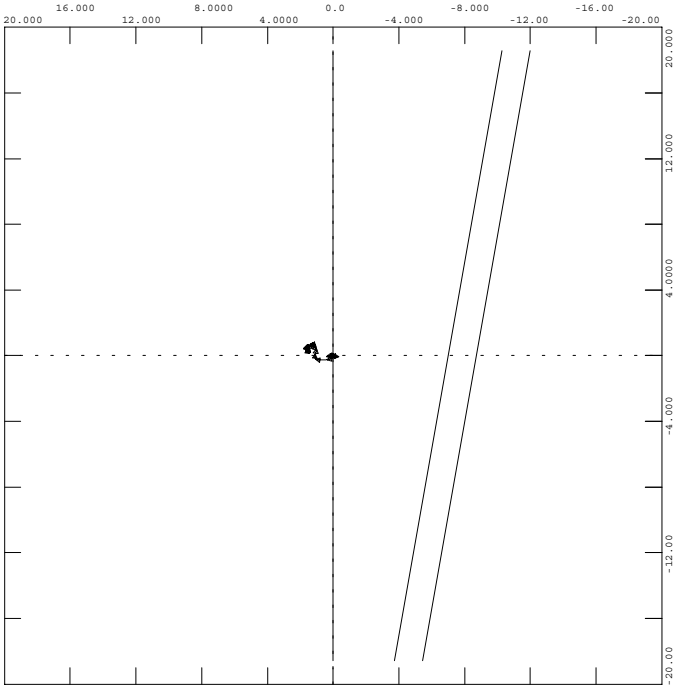

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out
CHNL# 550: [V-MINNTAC7]
CHNL# 552: [V-HIBBTAC7]
CHNL#'S 736,738: [P-WAW4-MAR41]+[P-WAW4-MAR42]
CHNL#'S 696,698: [P-WHTSL1-KEN]+[P-WHTSL2-KEN]
CHNL# 457: [A-3457 WHSL4]
CHNL# 489: [A-6550 KENR4]
1.1500
0.65000
500.00
-500.0
100.00
-100.0
WED, AUG 18 2004 13:43
VOLTAGES, ANGLES
TIME (SECONDS)


304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out
CHNL# 984: [ANG-GLENBOR4230]
CHNL# 983: [V-GLENBOR4230]
180.00
-180.0
1.1500
0.65000
WED, AUG 18 2004 13:43
VOLTAGES, ANGLES
TIME (SECONDS)

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 969: [DCAR-B]

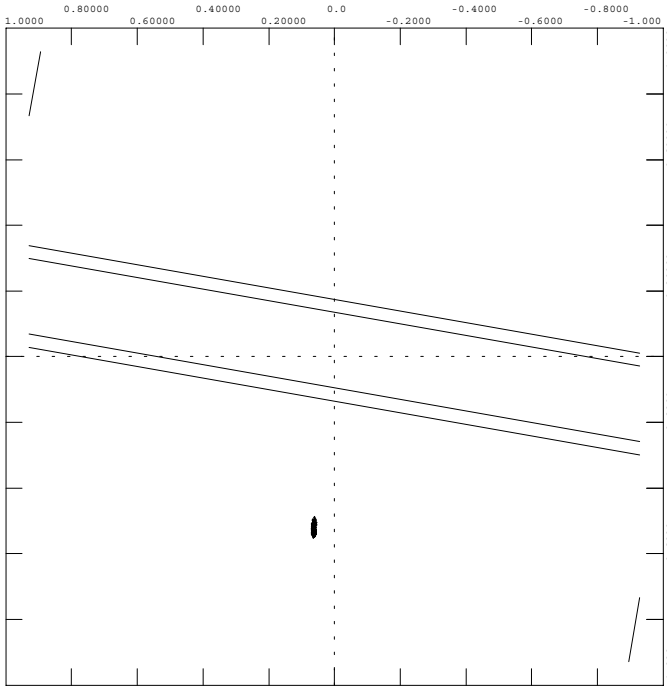


WED, AUG 18 2004 13:43
FORBES DC RED DCAR (679)
CHNL# 968: [DCAR-G]

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 816: [X-DRY4-LET4]

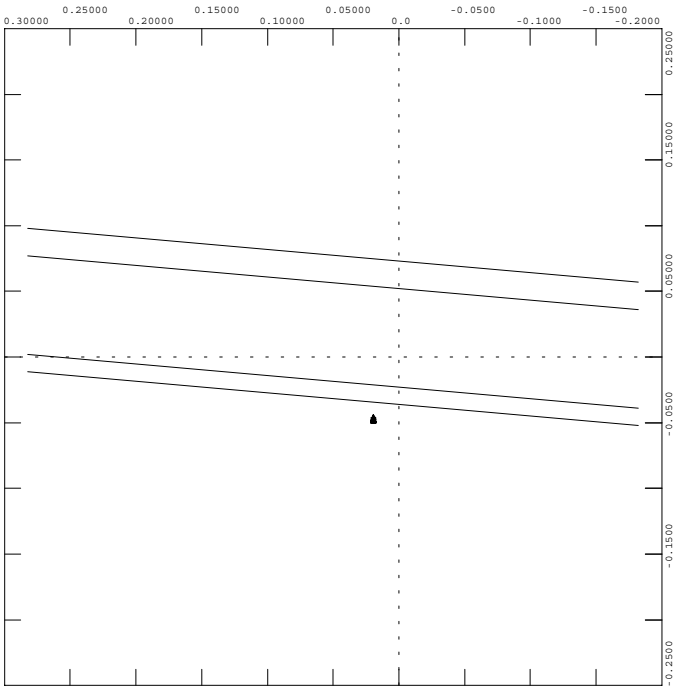


WED, AUG 18 2004 13:43
L20D AT DRAYTON (506)
CHNL# 815: [R-752 3458 1]

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 824: [X-FRB2-ROS2]

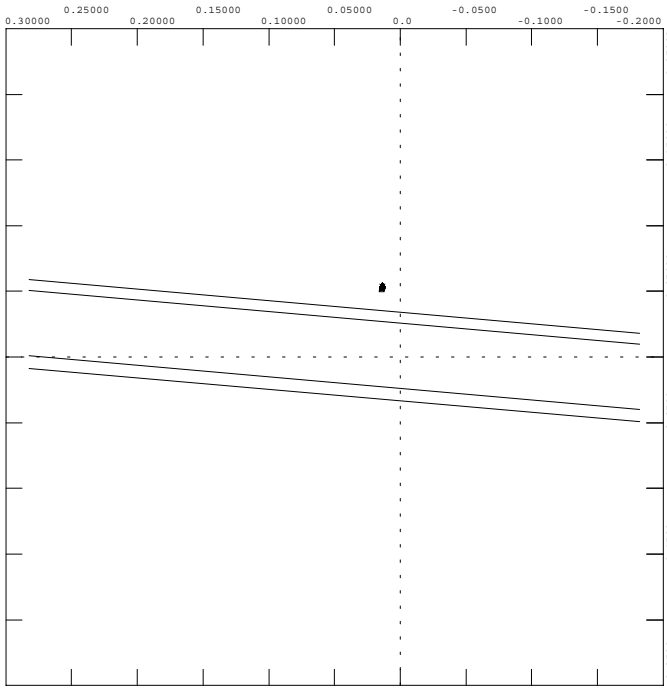


WED, AUG 18 2004 13:43
D602F-FORBES-EMRG (778)
CHNL# 823: [R-1307 1678]

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 856: [X-DSY2-ROS2]

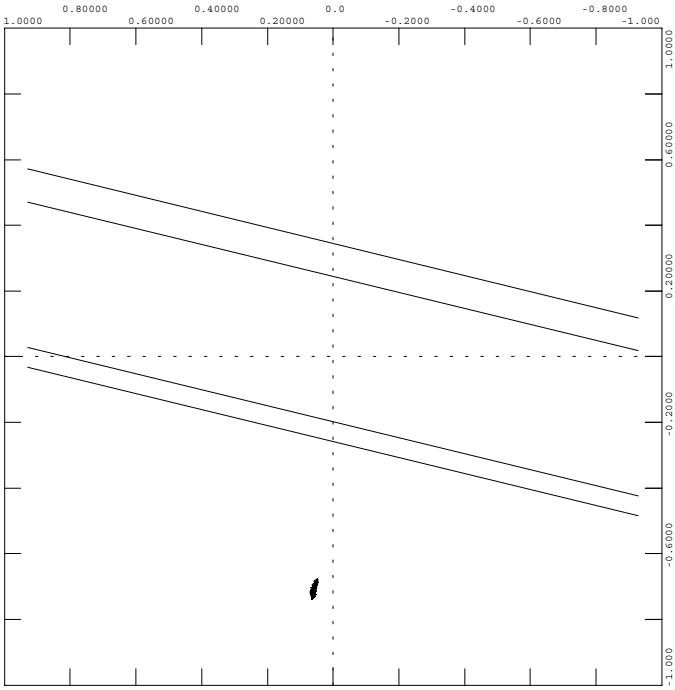


WED, AUG 18 2004 13:43
D602F-DORSEY (606)
CHNL# 855: [R-3465 1677]

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

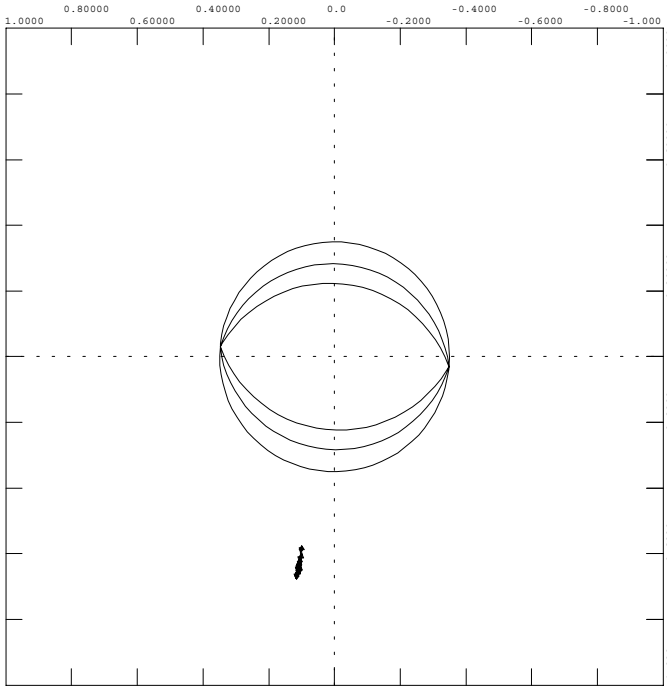
RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 822: [X-MRV4-RCH4]



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

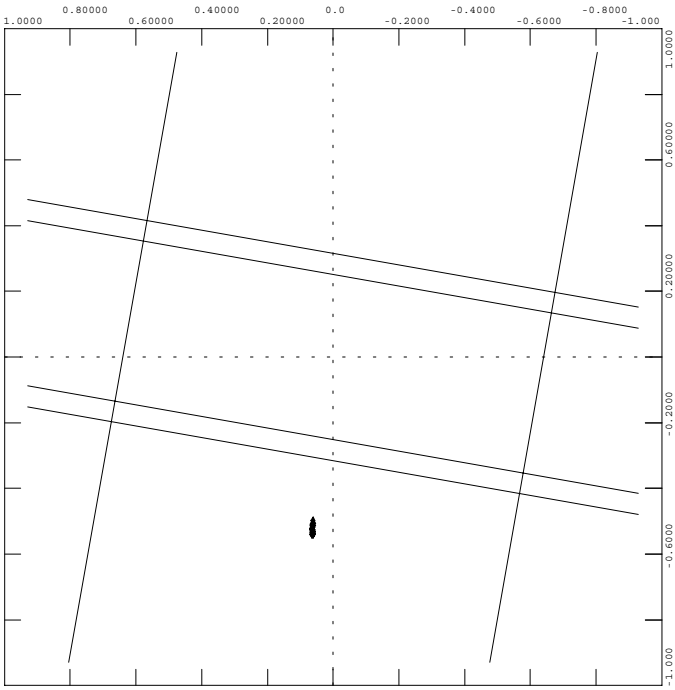
RELAY: SLLP1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 814: [X-TGA4-BD 4]



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

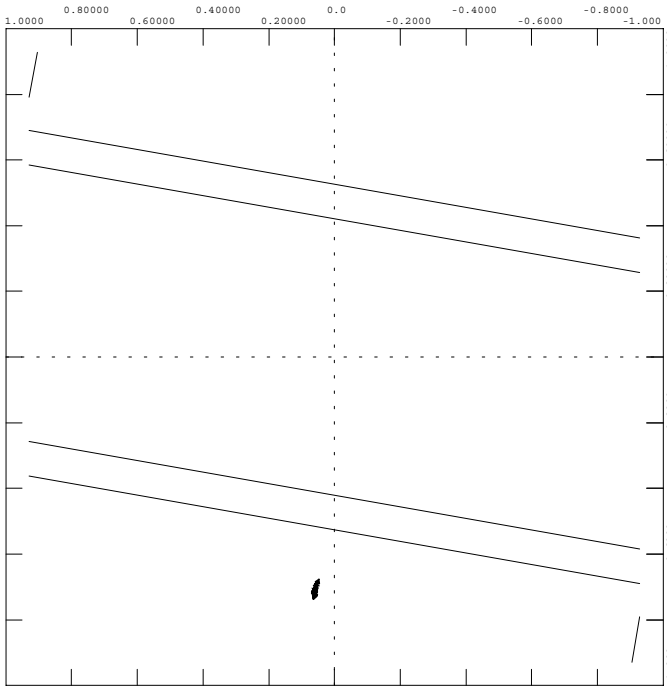
RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 816: [X-DRY4-LET4]



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

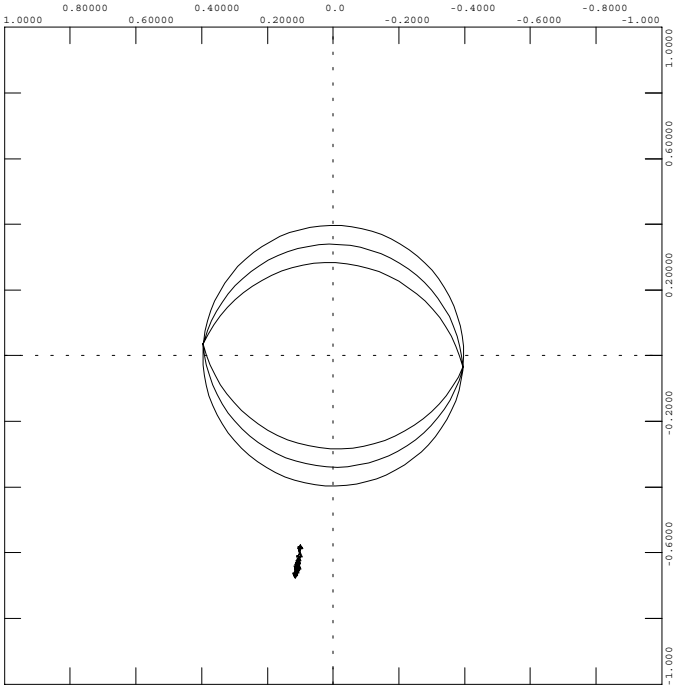
RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 822: [X-MRV4-RCH4]



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

RELAY: SLLP1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 814: [X-TGA4-BD 4]

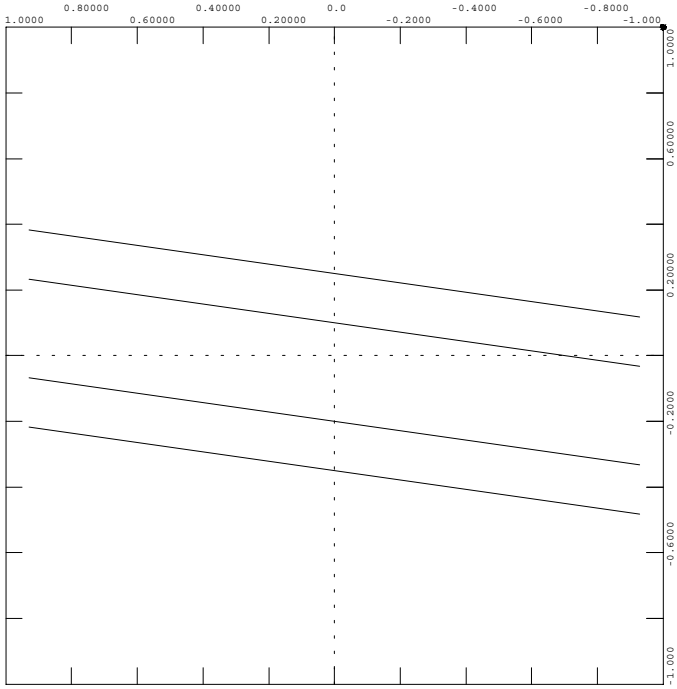


WED, AUG 18 2004 13:43
TIOGA-B.DAM-EMRG (267)

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 986: [X-G82R]

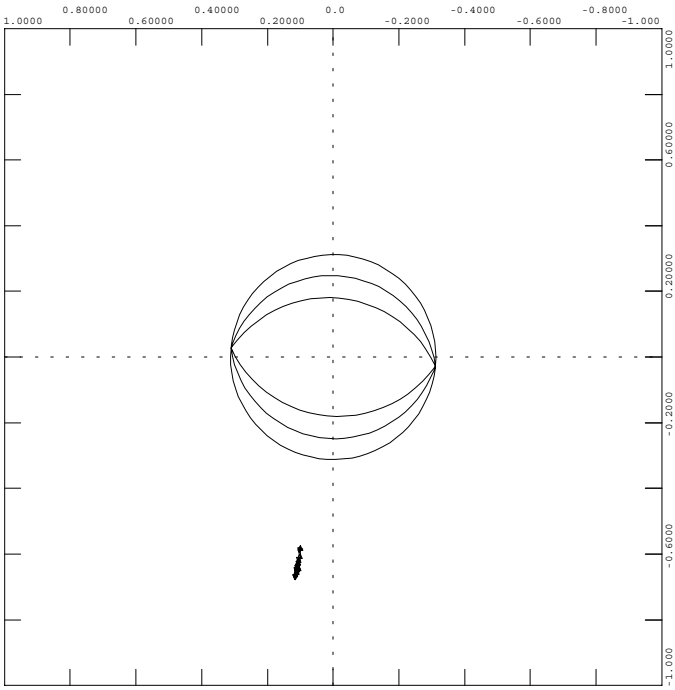


WED, AUG 18 2004 13:43
G82R (780)

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

RELAY: SLLP1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 814: [X-TGA4-BD 4]

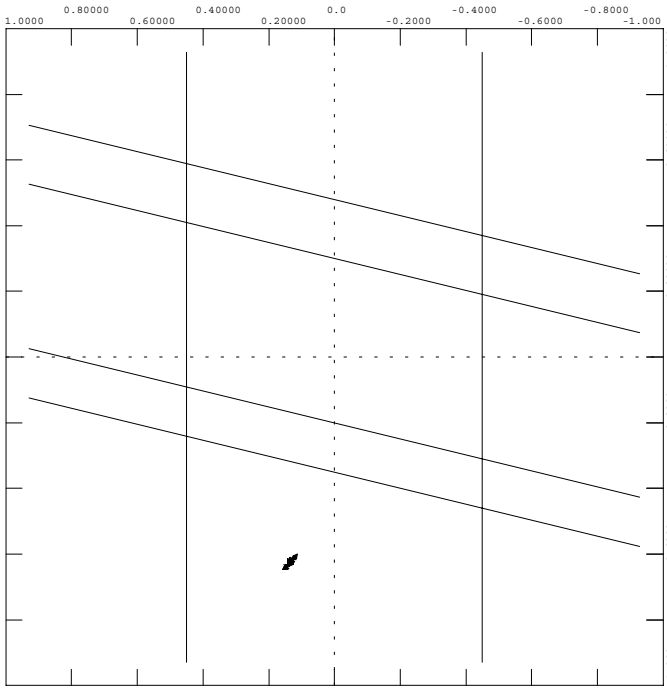


WED, AUG 18 2004 13:43
TIOGA-B.DAM-NORTH (268)

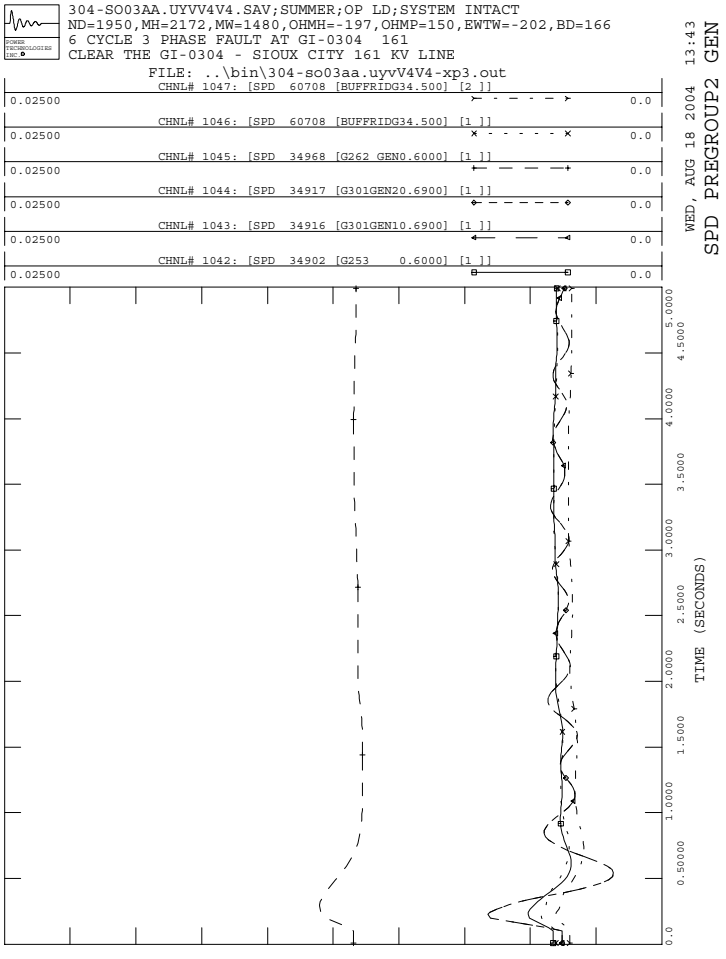
304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE

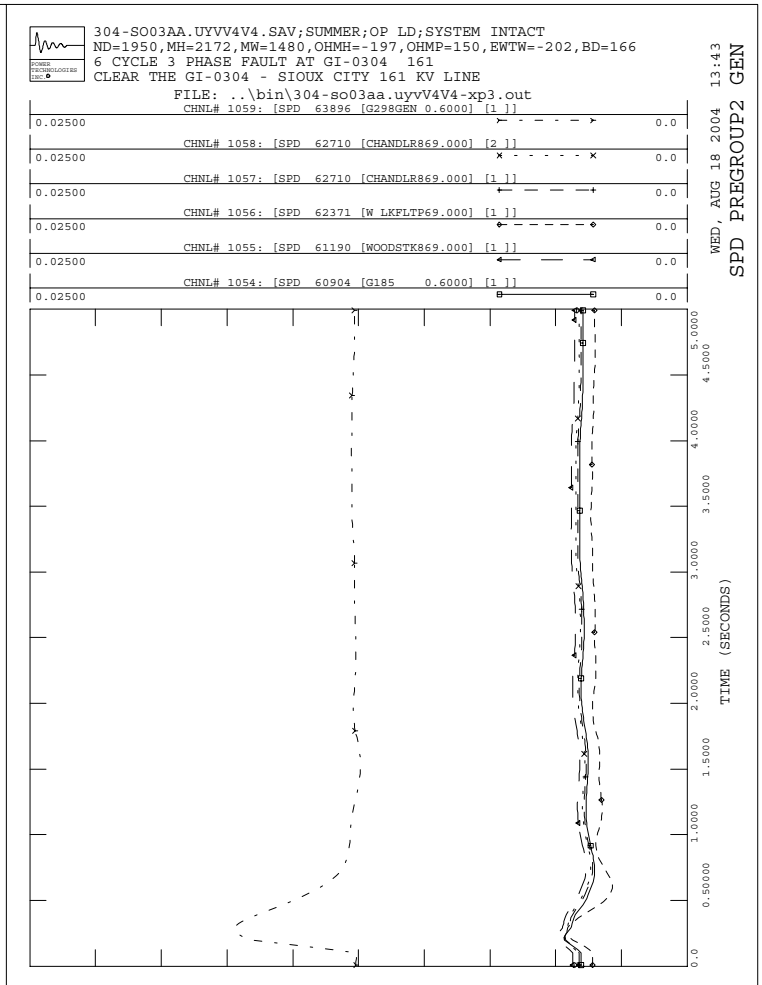
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

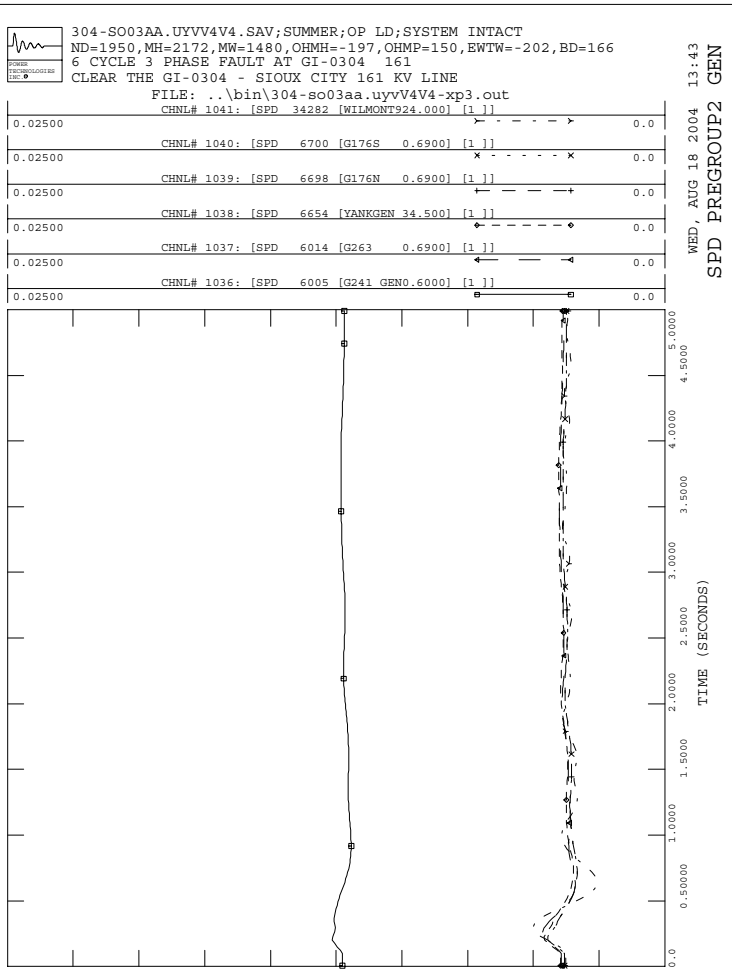
RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 848: [X-INT.F-FTF]

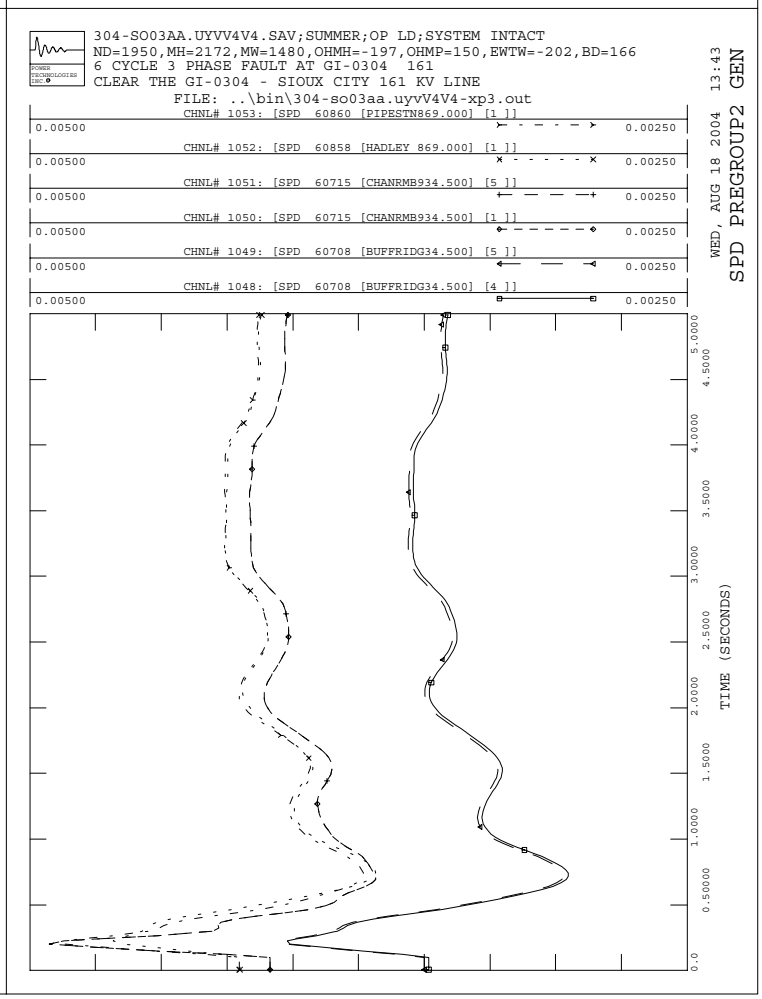


WED, AUG 18 2004 13:43
MP-OH I.FALLS (779)


304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out
CHNL# 1047: [SPD 60708 [BUFFRIDG34.500] [2]]
CHNL# 1046: [SPD 60708 [BUFFRIDG34.500] [1]]
CHNL# 1045: [SPD 34968 [G262 GEN0.6000] [1]]
CHNL# 1044: [SPD 34917 [G301GEN20.6900] [1]]
CHNL# 1043: [SPD 34916 [G301GEN10.6900] [1]]
CHNL# 1042: [SPD 34902 [G253 0.6000] [1]]
0.02500
0.0
WED, AUG 18 2004 13:43
SPD PREGROUP2 GEN
TIME (SECONDS)
0.50000
1.0000
1.5000
2.0000
2.5000
3.0000
3.5000
4.0000
4.5000
5.0000

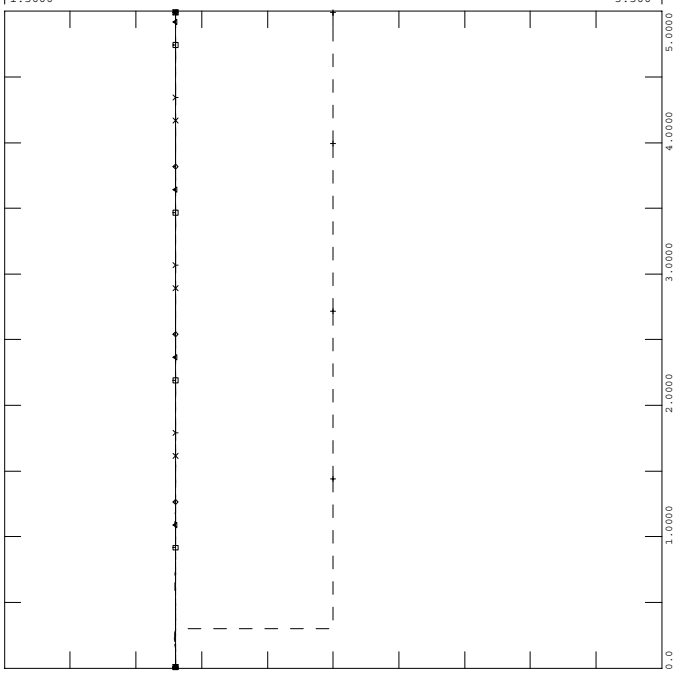

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out
CHNL# 1059: [SPD 63896 [G298GEN 0.6000] [1]]
CHNL# 1058: [SPD 62710 [CHANDLR869.000] [2]]
CHNL# 1057: [SPD 62710 [CHANDLR869.000] [1]]
CHNL# 1056: [SPD 62371 [W LKFLTP69.000] [1]]
CHNL# 1055: [SPD 61190 [WOODSTK869.000] [1]]
CHNL# 1054: [SPD 60904 [G185 0.6000] [1]]
0.02500
0.0
WED, AUG 18 2004 13:43
SPD PREGROUP2 GEN
TIME (SECONDS)
0.50000
1.0000
1.5000
2.0000
2.5000
3.0000
3.5000
4.0000
4.5000
5.0000


304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out
CHNL# 1041: [SPD 34282 [WILMONT924.000] [1]]
CHNL# 1040: [SPD 6700 [G176S 0.6900] [1]]
CHNL# 1039: [SPD 6698 [G176N 0.6900] [1]]
CHNL# 1038: [SPD 6654 [YANKGEN 34.500] [1]]
CHNL# 1037: [SPD 6014 [G263 0.6900] [1]]
CHNL# 1036: [SPD 6005 [G241 GEN0.6000] [1]]
0.02500
0.0
WED, AUG 18 2004 13:43
SPD PREGROUP2 GEN
TIME (SECONDS)
0.50000
1.0000
1.5000
2.0000
2.5000
3.0000
3.5000
4.0000
4.5000
5.0000


304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out
CHNL# 1053: [SPD 60860 [PIPESTN869.000] [1]]
CHNL# 1052: [SPD 60858 [HADLEY 869.000] [1]]
CHNL# 1051: [SPD 60715 [CHANRMB934.500] [5]]
CHNL# 1050: [SPD 60715 [CHANRMB934.500] [1]]
CHNL# 1049: [SPD 60708 [BUFFRIDG34.500] [5]]
CHNL# 1048: [SPD 60708 [BUFFRIDG34.500] [4]]
0.00500
0.00250
WED, AUG 18 2004 13:43
SPD PREGROUP2 GEN
TIME (SECONDS)
0.50000
1.0000
1.5000
2.0000
2.5000
3.0000
3.5000
4.0000
4.5000
5.0000

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

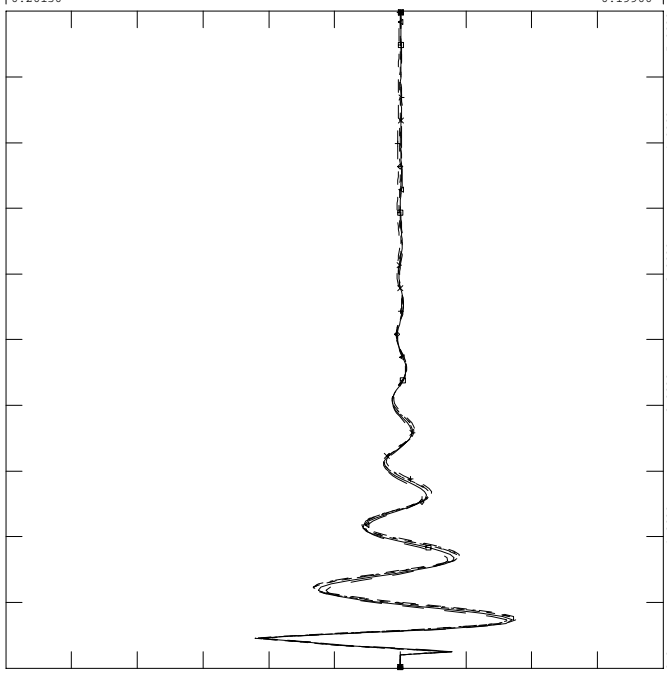
CHNL# 1071: [SPD 91010 [G162-G2 0.5750] [1]] 1.5000 -3.500
CHNL# 1070: [SPD 91009 [G162-G1 0.5750] [1]] 1.5000 -3.500
CHNL# 1069: [SPD 91008 [MEC BV 0.5750] [1]] 1.5000 -3.500
CHNL# 1068: [SPD 91007 [CLIPRG190.5750] [1]] 1.5000 -3.500
CHNL# 1067: [SPD 91006 [ENXCOG190.5750] [1]] 1.5000 -3.500
CHNL# 1066: [SPD 91005 [CHANRMG70.5750] [1]] 1.5000 -3.500



WED, AUG 18 2004 13:43
SPD PREGROUP2 GEN

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

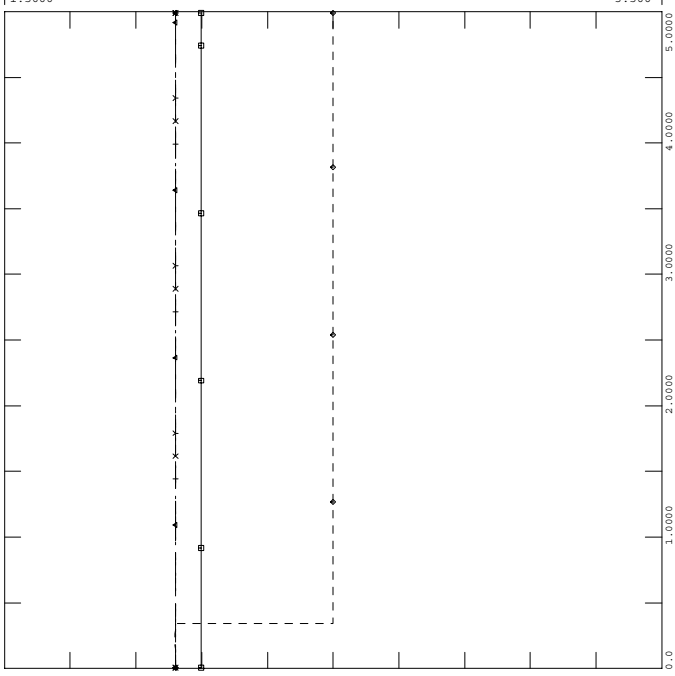
CHNL# 1083: [SPD 91022 [G164-G6 0.5750] [1]] 0.20150 0.19900
CHNL# 1082: [SPD 91021 [G164-G5 0.5750] [1]] 0.20150 0.19900
CHNL# 1081: [SPD 91020 [G164-G4 0.5750] [1]] 0.20150 0.19900
CHNL# 1080: [SPD 91019 [G164-G3 0.5750] [1]] 0.20150 0.19900
CHNL# 1079: [SPD 91018 [G164-G2 0.5750] [1]] 0.20150 0.19900
CHNL# 1078: [SPD 91017 [G164-G1 0.5750] [1]] 0.20150 0.19900



WED, AUG 18 2004 13:43
SPD PREGROUP2 GEN

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

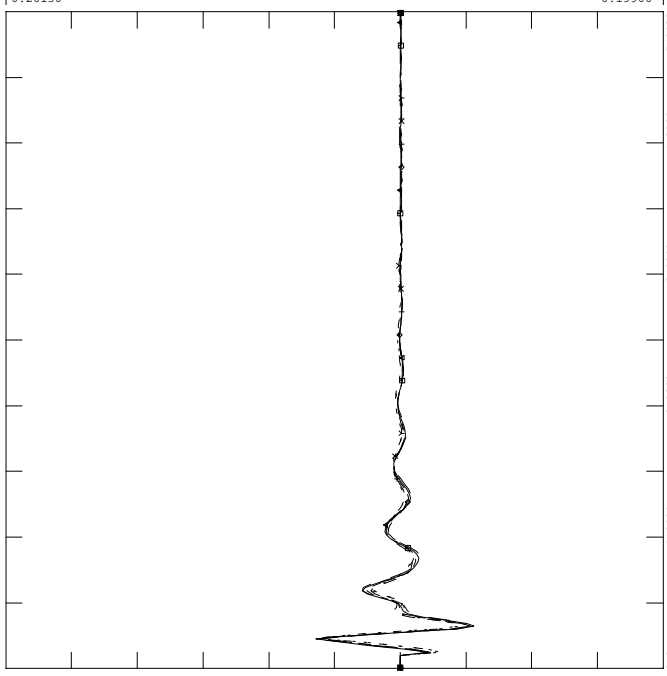
CHNL# 1065: [SPD 91004 [CHANRMG60.5750] [1]] 1.5000 -3.500
CHNL# 1064: [SPD 91003 [CHANRMG40.5750] [1]] 1.5000 -3.500
CHNL# 1063: [SPD 91002 [CHANRMG30.5750] [1]] 1.5000 -3.500
CHNL# 1062: [SPD 91001 [FLYCLD 0.5750] [1]] 1.5000 -3.500
CHNL# 1061: [SPD 91000 [BUFFRID30.5750] [1]] 1.5000 -3.500
CHNL# 1060: [SPD 66601 [GI0108 0.6900] [1]] 1.5000 -3.500



WED, AUG 18 2004 13:43
SPD PREGROUP2 GEN

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

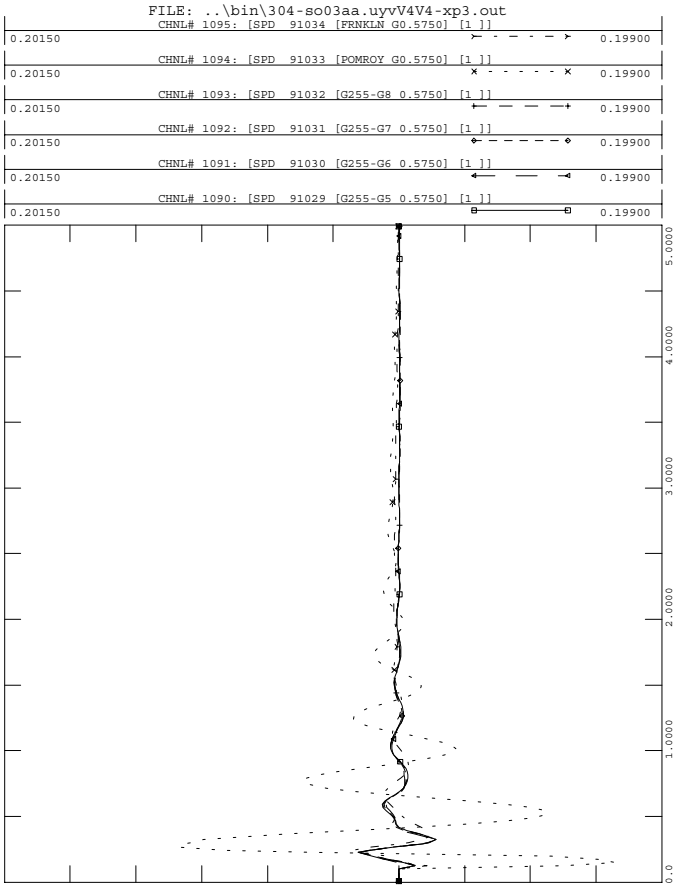
CHNL# 1077: [SPD 91016 [G162-G8 0.5750] [1]] 0.20150 0.19900
CHNL# 1076: [SPD 91015 [G162-G7 0.5750] [1]] 0.20150 0.19900
CHNL# 1075: [SPD 91014 [G162-G6 0.5750] [1]] 0.20150 0.19900
CHNL# 1074: [SPD 91013 [G162-G5 0.5750] [1]] 0.20150 0.19900
CHNL# 1073: [SPD 91012 [G162-G4 0.5750] [1]] 0.20150 0.19900
CHNL# 1072: [SPD 91011 [G162-G3 0.5750] [1]] 0.20150 0.19900



WED, AUG 18 2004 13:43
SPD PREGROUP2 GEN

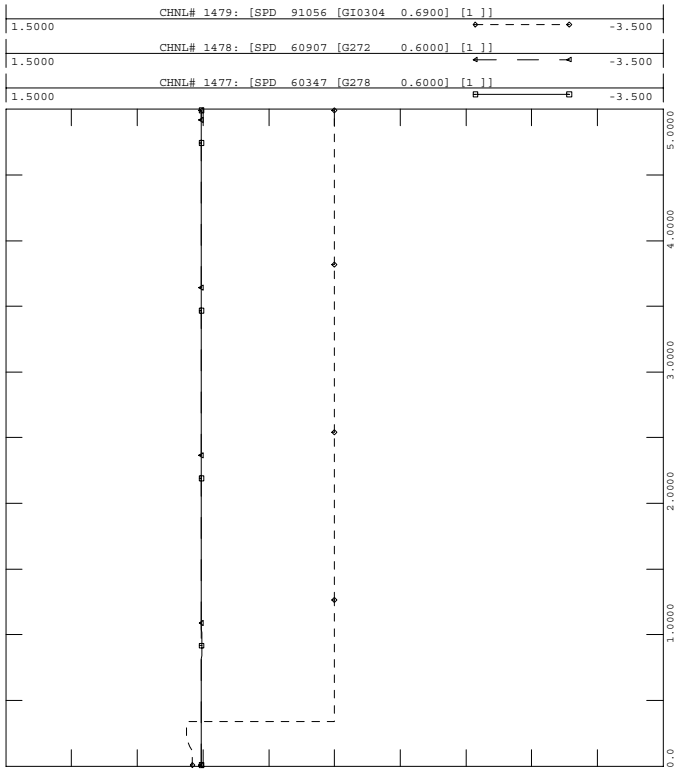
304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

WED, AUG 18 2004 13:43
SPD PREGROUP2 GEN



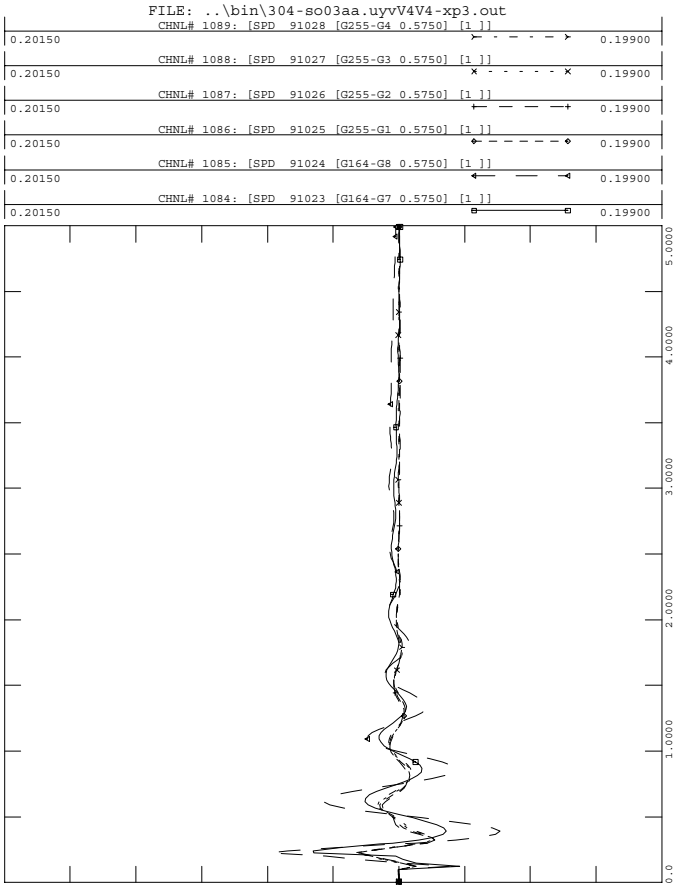
304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

WED, AUG 18 2004 13:43
SPD GROUP2 INDUC GEN



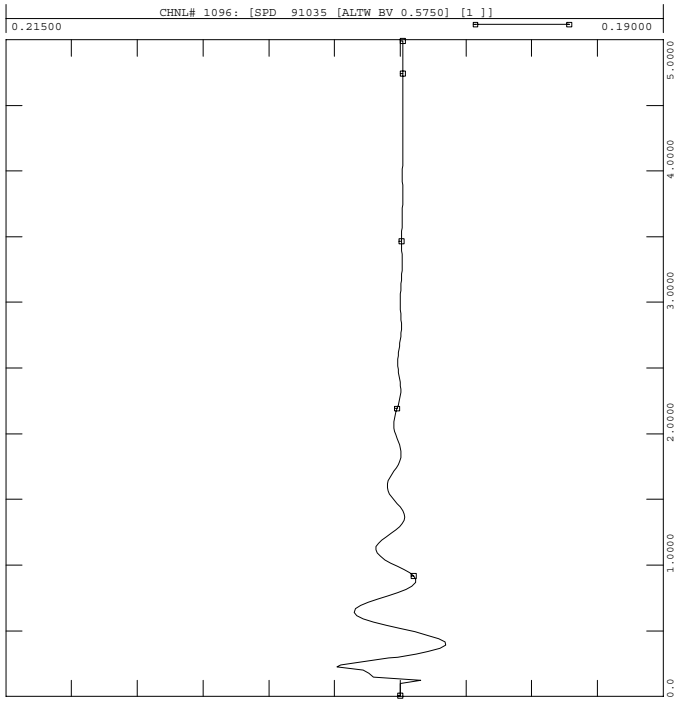
304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

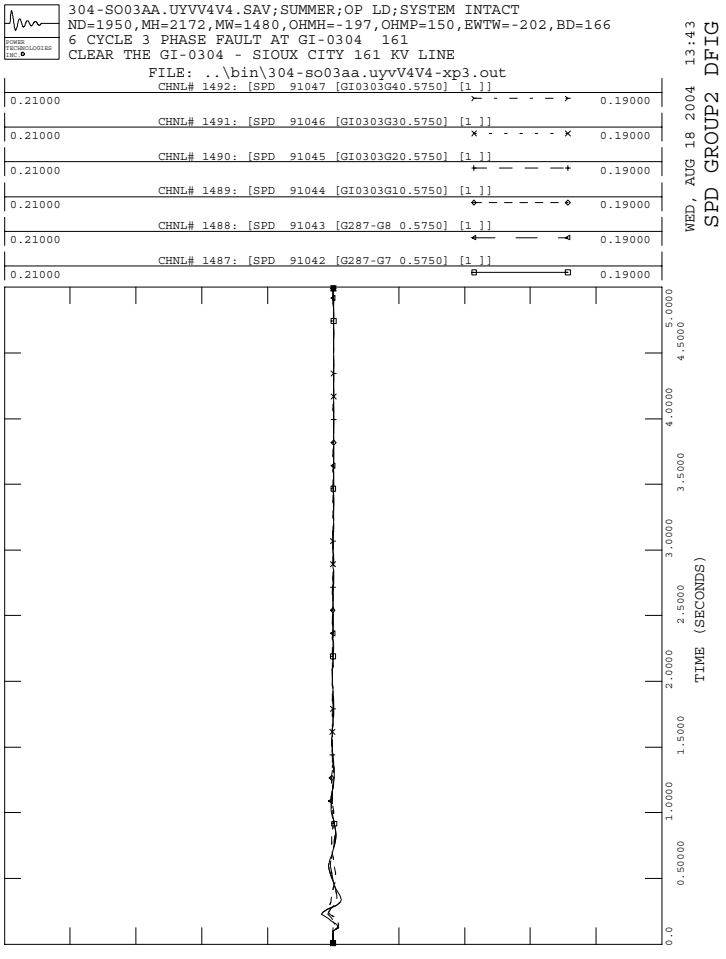
WED, AUG 18 2004 13:43
SPD PREGROUP2 GEN

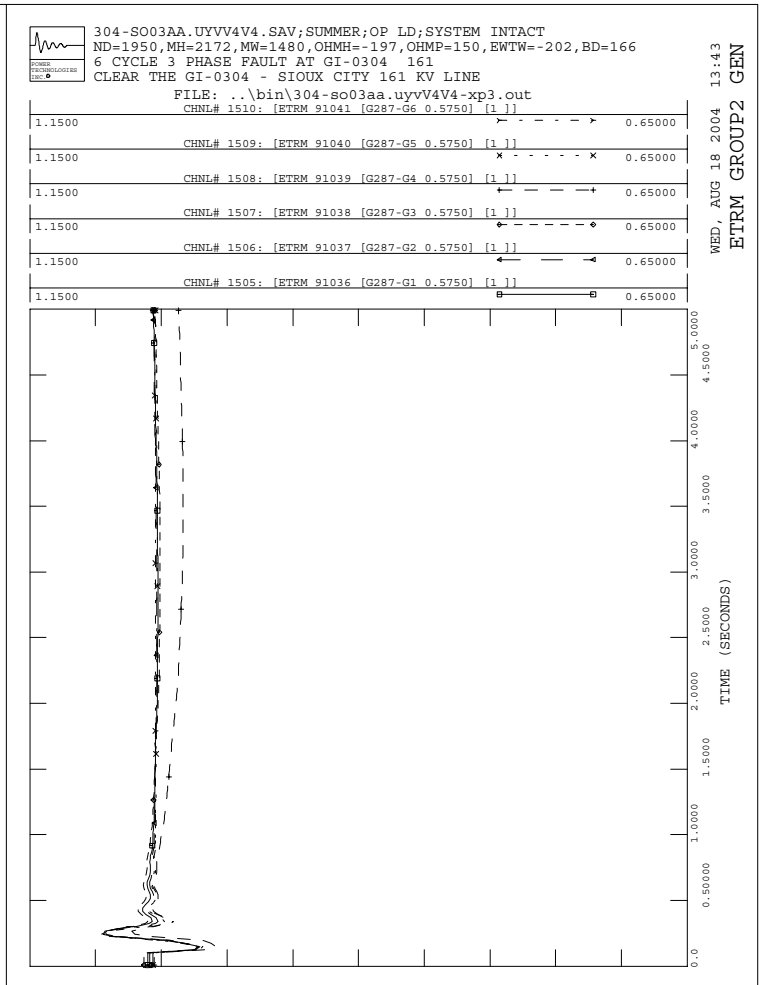


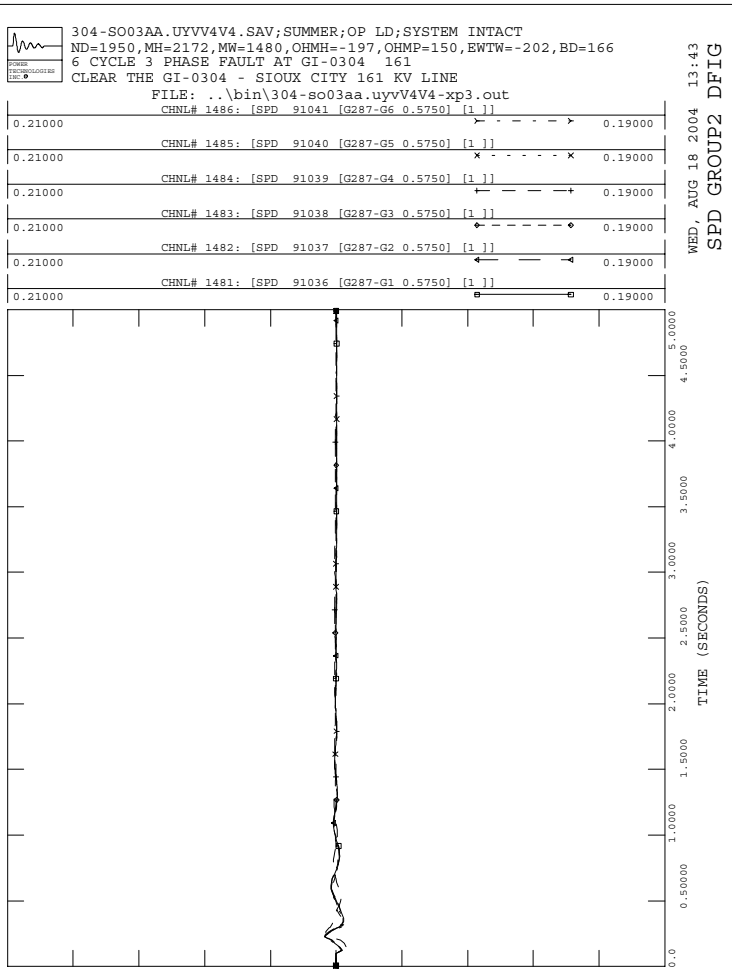
304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

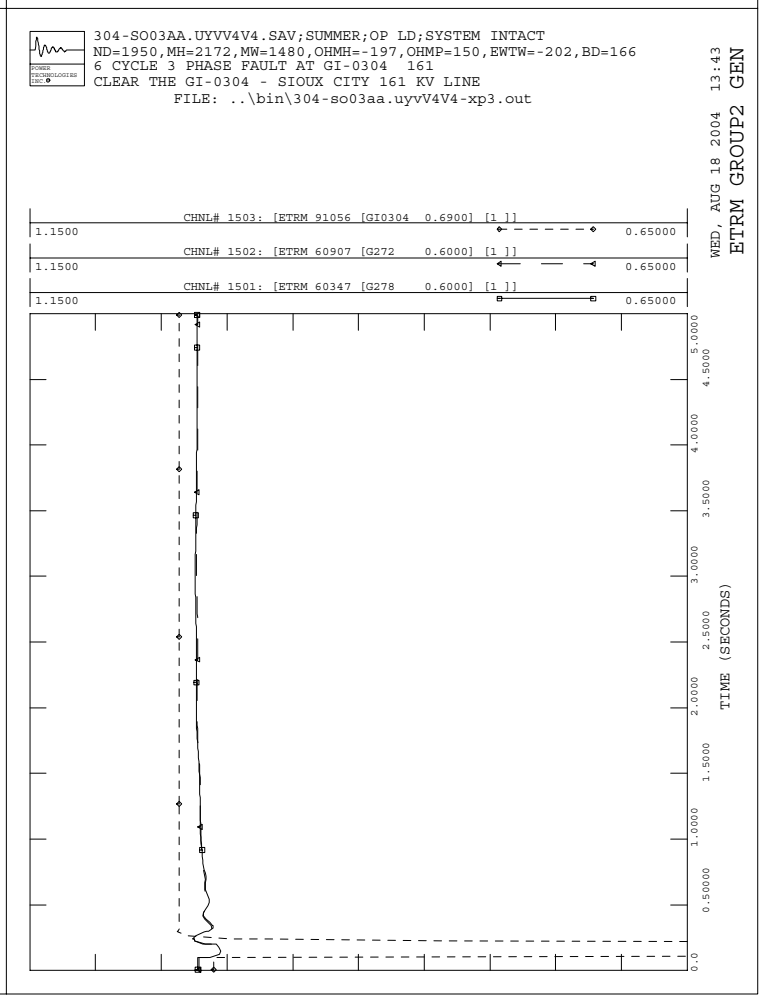
WED, AUG 18 2004 13:43
SPD PREGROUP2 GEN




304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out
CHNL# 1492: [SPD 91047 [GI0303G40.5750] [1]]
CHNL# 1491: [SPD 91046 [GI0303G30.5750] [1]]
CHNL# 1490: [SPD 91045 [GI0303G20.5750] [1]]
CHNL# 1489: [SPD 91044 [GI0303G10.5750] [1]]
CHNL# 1488: [SPD 91043 [G287-G8 0.5750] [1]]
CHNL# 1487: [SPD 91042 [G287-G7 0.5750] [1]]
0.21000
0.19000
WED, AUG 18 2004 13:43
SPD GROUP2 DFIG
TIME (SECONDS)


304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out
CHNL# 1510: [ETRM 91041 [G287-G6 0.5750] [1]]
CHNL# 1509: [ETRM 91040 [G287-G5 0.5750] [1]]
CHNL# 1508: [ETRM 91039 [G287-G4 0.5750] [1]]
CHNL# 1507: [ETRM 91038 [G287-G3 0.5750] [1]]
CHNL# 1506: [ETRM 91037 [G287-G2 0.5750] [1]]
CHNL# 1505: [ETRM 91036 [G287-G1 0.5750] [1]]
1.1500
0.65000
WED, AUG 18 2004 13:43
ETRM GROUP2 GEN
TIME (SECONDS)

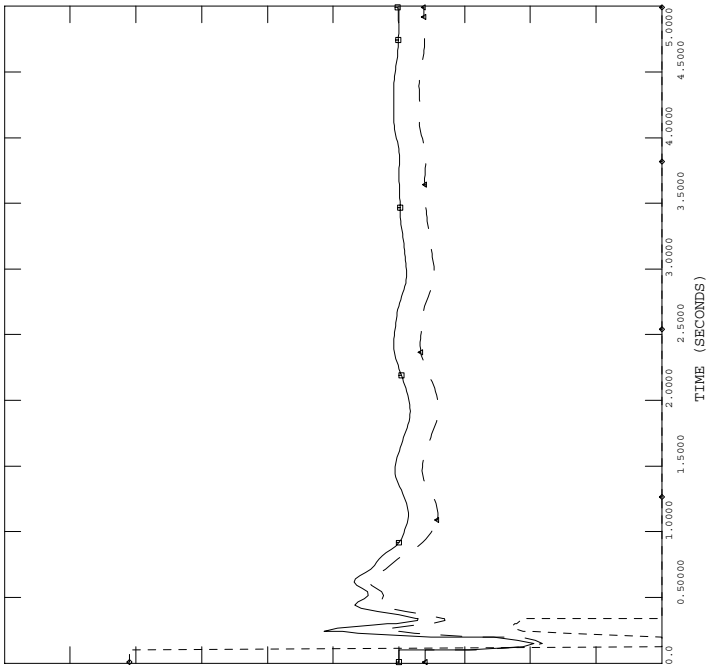

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out
CHNL# 1486: [SPD 91041 [G287-G6 0.5750] [1]]
CHNL# 1485: [SPD 91040 [G287-G5 0.5750] [1]]
CHNL# 1484: [SPD 91039 [G287-G4 0.5750] [1]]
CHNL# 1483: [SPD 91038 [G287-G3 0.5750] [1]]
CHNL# 1482: [SPD 91037 [G287-G2 0.5750] [1]]
CHNL# 1481: [SPD 91036 [G287-G1 0.5750] [1]]
0.21000
0.19000
WED, AUG 18 2004 13:43
SPD GROUP2 DFIG
TIME (SECONDS)


304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out
CHNL# 1503: [ETRM 91056 [GI0304 0.6900] [1]]
CHNL# 1502: [ETRM 60907 [G272 0.6000] [1]]
CHNL# 1501: [ETRM 60347 [G278 0.6000] [1]]
1.1500
0.65000
WED, AUG 18 2004 13:43
ETRM GROUP2 GEN
TIME (SECONDS)

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

WED, AUG 18 2004 13:43
P GROUP2 GEN

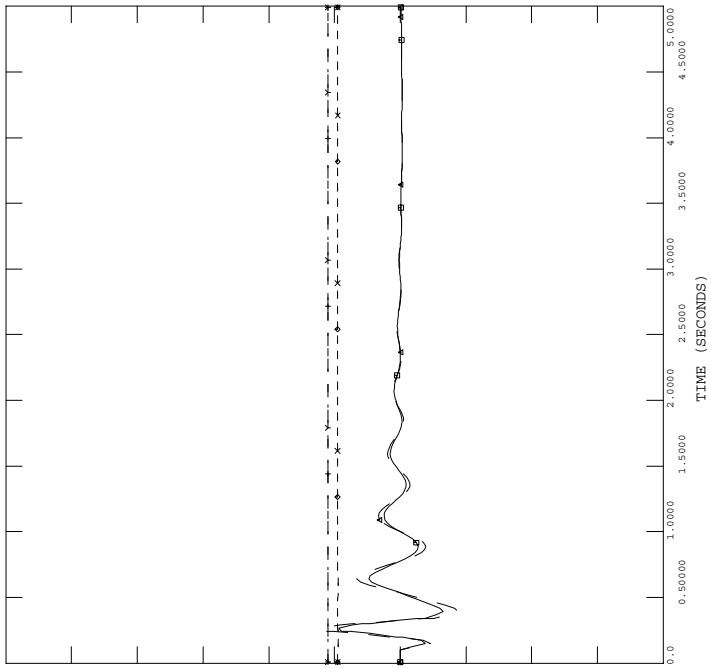
CHNL# 1527: [POWR 91056 [GI0304 0.6900] [1]]
1.0000 0.0
CHNL# 1526: [POWR 60907 [G272 0.6000] [1]]
0.11500 0.09000
CHNL# 1525: [POWR 60347 [G278 0.6000] [1]]
0.09500 0.07000



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

WED, AUG 18 2004 13:43
P GROUP2 GEN

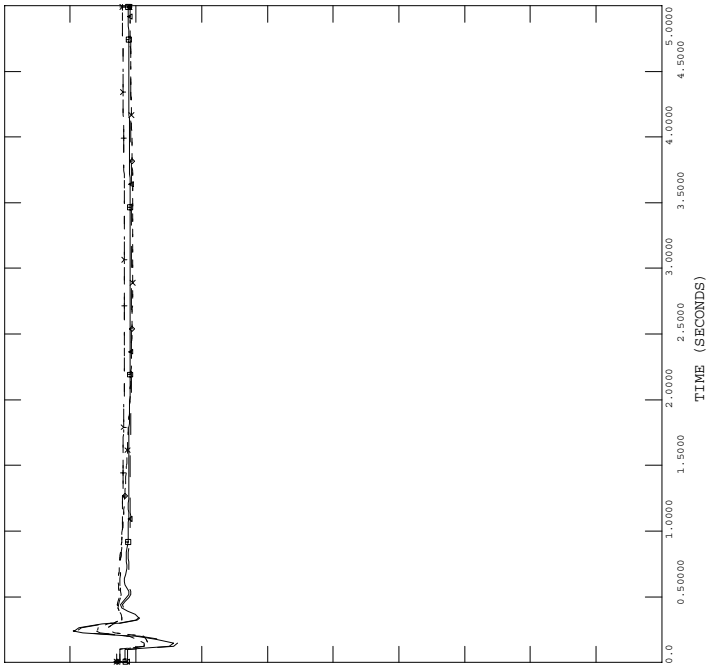
CHNL# 1540: [POWR 91047 [GI0303G40.5750] [1]]
1.0000 0.0
CHNL# 1539: [POWR 91046 [GI0303G30.5750] [1]]
1.0000 0.0
CHNL# 1538: [POWR 91045 [GI0303G20.5750] [1]]
1.0000 0.0
CHNL# 1537: [POWR 91044 [GI0303G10.5750] [1]]
1.0000 0.0
CHNL# 1536: [POWR 91043 [G287-G8 0.5750] [1]]
0.28650 0.28400
CHNL# 1535: [POWR 91042 [G287-G7 0.5750] [1]]
0.22650 0.22400



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

WED, AUG 18 2004 13:43
ETRM GROUP2 GEN

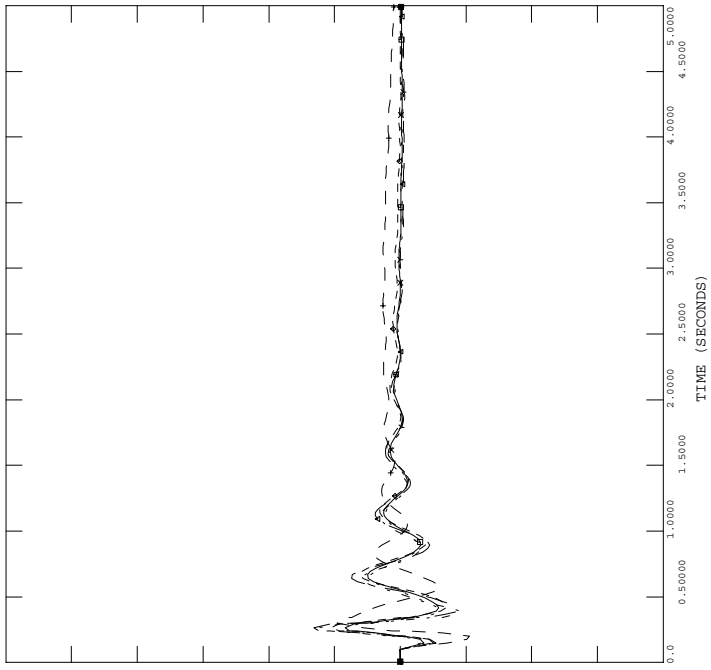
CHNL# 1516: [ETRM 91047 [GI0303G40.5750] [1]]
1.1500 0.65000
CHNL# 1515: [ETRM 91046 [GI0303G30.5750] [1]]
1.1500 0.65000
CHNL# 1514: [ETRM 91045 [GI0303G20.5750] [1]]
1.1500 0.65000
CHNL# 1513: [ETRM 91044 [GI0303G10.5750] [1]]
1.1500 0.65000
CHNL# 1512: [ETRM 91043 [G287-G8 0.5750] [1]]
1.1500 0.65000
CHNL# 1511: [ETRM 91042 [G287-G7 0.5750] [1]]
1.1500 0.65000

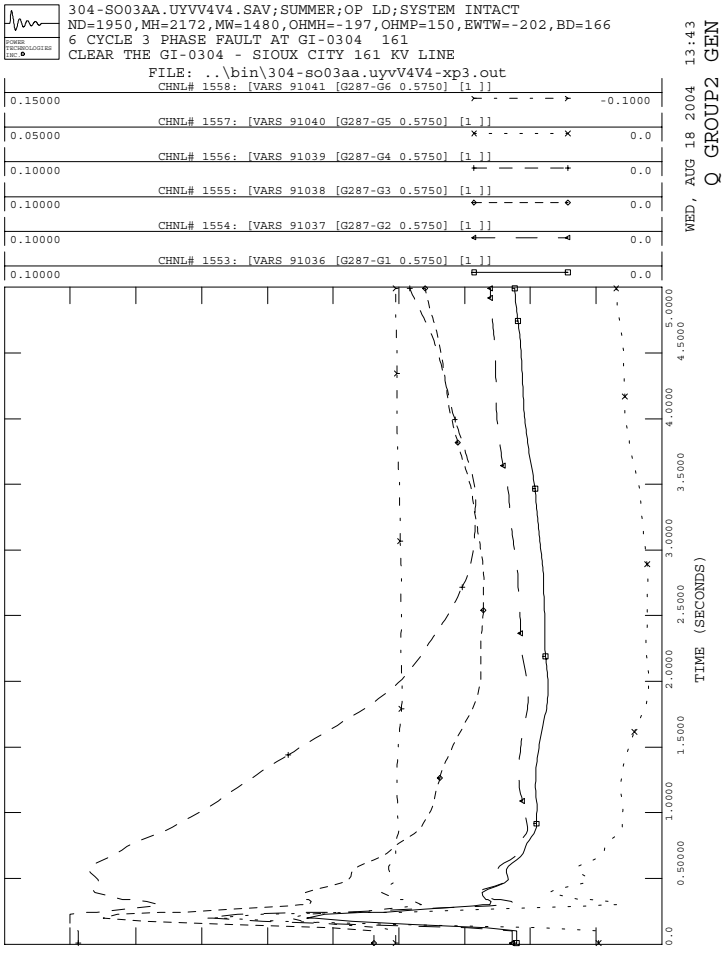


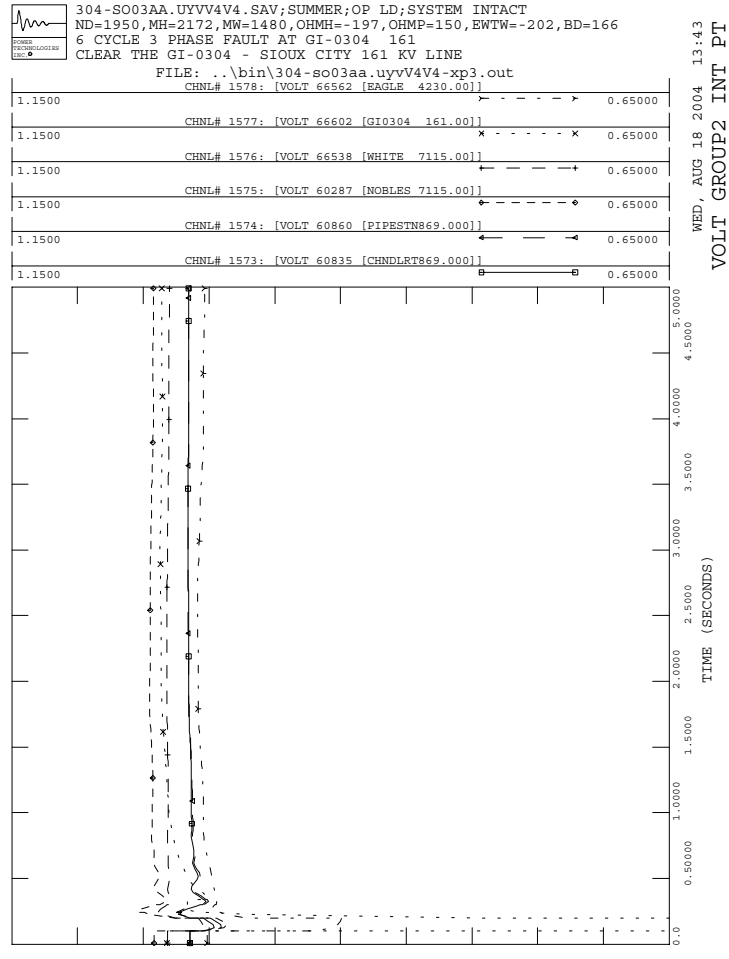
304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

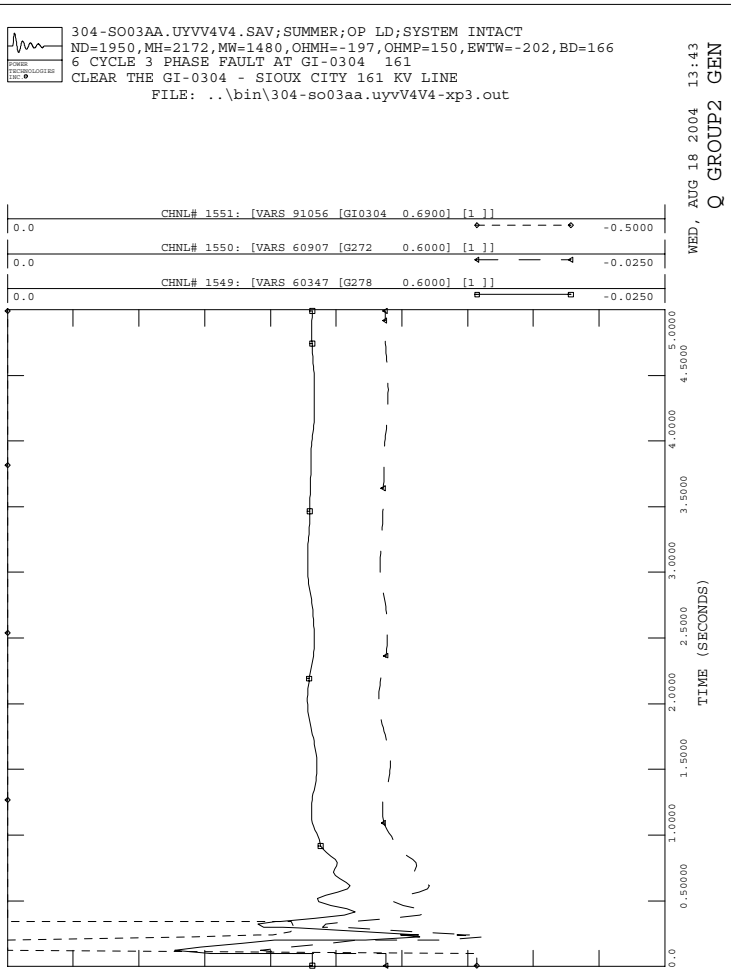
WED, AUG 18 2004 13:43
P GROUP2 GEN

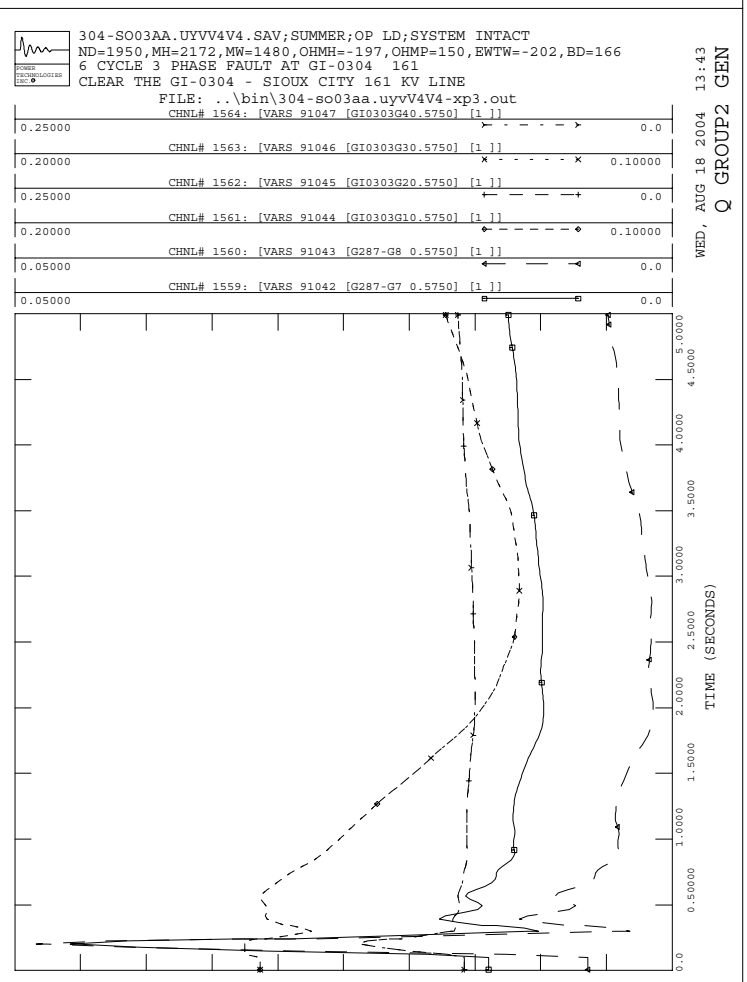
CHNL# 1534: [POWR 91041 [G287-G6 0.5750] [1]]
0.31650 0.31400
CHNL# 1533: [POWR 91040 [G287-G5 0.5750] [1]]
0.19650 0.19400
CHNL# 1532: [POWR 91039 [G287-G4 0.5750] [1]]
0.27150 0.26900
CHNL# 1531: [POWR 91038 [G287-G3 0.5750] [1]]
0.25650 0.25400
CHNL# 1530: [POWR 91037 [G287-G2 0.5750] [1]]
0.31650 0.31400
CHNL# 1529: [POWR 91036 [G287-G1 0.5750] [1]]
0.19650 0.19400




304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out
CHNL# 1558: [VARS 91041 [G287-G6 0.5750] [1]]
CHNL# 1557: [VARS 91040 [G287-G5 0.5750] [1]]
CHNL# 1556: [VARS 91039 [G287-G4 0.5750] [1]]
CHNL# 1555: [VARS 91038 [G287-G3 0.5750] [1]]
CHNL# 1554: [VARS 91037 [G287-G2 0.5750] [1]]
CHNL# 1553: [VARS 91036 [G287-G1 0.5750] [1]]
WED, AUG 18 2004 13:43
Q GROUP2 GEN
TIME (SECONDS)

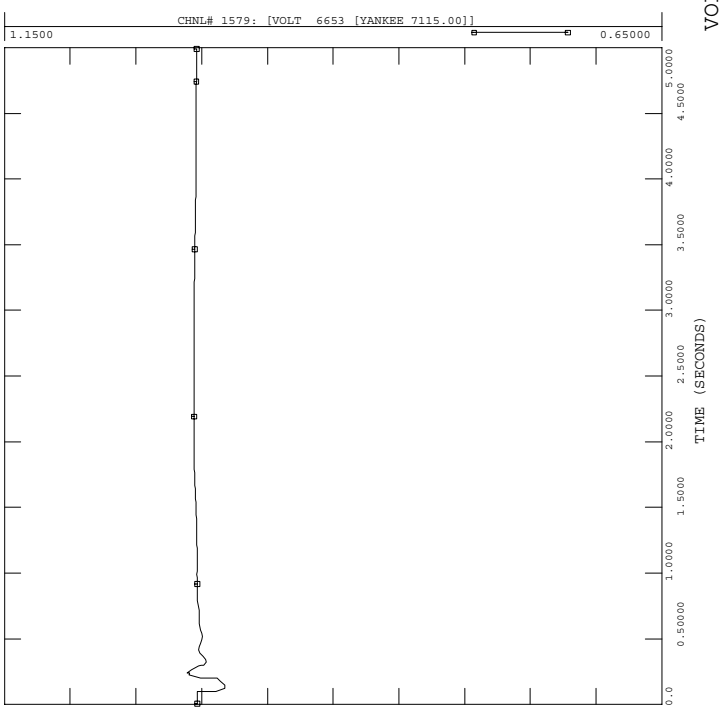

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out
CHNL# 1578: [VOLT 66562 [EAGLE 4230.00]]
CHNL# 1577: [VOLT 66602 [GI0304 161.00]]
CHNL# 1576: [VOLT 66538 [WHITE 7115.00]]
CHNL# 1575: [VOLT 60287 [NOBLES 7115.00]]
CHNL# 1574: [VOLT 60860 [PIPESTN869.000]]
CHNL# 1573: [VOLT 60835 [CHNDLRT869.000]]
WED, AUG 18 2004 13:43
VOLT GROUP2 INT PT
TIME (SECONDS)


304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out
CHNL# 1551: [VARS 91056 [GI0304 0.6900] [1]]
CHNL# 1550: [VARS 60907 [G272 0.6000] [1]]
CHNL# 1549: [VARS 60347 [G278 0.6000] [1]]
WED, AUG 18 2004 13:43
Q GROUP2 GEN
TIME (SECONDS)


304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out
CHNL# 1564: [VARS 91047 [GI0303G40.5750] [1]]
CHNL# 1563: [VARS 91046 [GI0303G30.5750] [1]]
CHNL# 1562: [VARS 91045 [GI0303G20.5750] [1]]
CHNL# 1561: [VARS 91044 [GI0303G10.5750] [1]]
CHNL# 1560: [VARS 91043 [G287-G8 0.5750] [1]]
CHNL# 1559: [VARS 91042 [G287-G7 0.5750] [1]]
WED, AUG 18 2004 13:43
Q GROUP2 GEN
TIME (SECONDS)

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3.out

WED, AUG 18 2004 13:43
VOLT GROUP2 INT PT



J.5 Disturbance xp3-nt with GI0304

(With undervoltage protection disabled)

6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE

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 WED, AUG 18 2004  13:55

INITIATED AT LOAD FLOW ENTRY POINT ON WED, AUG 18 2004  13:55

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166

 6 CYCLE 3 PHASE FAULT AT GI-0304  161
 CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE


 SPECIAL RESPONSE FILES AND COMMENTS
 ------- -------- ----- --- --------

 RESPONSE FILES
 -------- -----

 ..\idv\no-vtgtrp.idv:



 COMMENTS
 --------
 None
                    P O W E R   F L O W   S U M M A R Y
-----------------------------------------------------------------------------
               NDEX:      1950 MW         ECL-ARP:  806 MW
               MHEX:      2172 MW         PRI-BYN:  675 MW
               MWSI:      1482 MW         LKM-WFB:  -55 MW
                                          NI-WUMS:  430 MW
               COOPER S:  1197 MW         WNE-WKS:  592 MW
               FTCAL S:    863 MW         GGS:     1646 MW
               GRIS-LNC:   743 MW         QC WEST: -122 MW

           LOAD LEVELS AS PERCENT OF 2003 SUMMER PEAK:
           NORTH DAKOTA (ZONE 90,990) 1744.5 MW,  66.3% OF  2632.4 MW
           NSP             (AREA 600) 8741.2 MW,  96.2% OF  9083.5 MW
           MAN HYDRO       (AREA 667) 2264.9 MW,  85.0% OF  2663.8 MW

Load/Losses   MW  / MW       Generation        MW       Export            MW
----------- ------ -----     --------------- ------     --------------- ------
Manitoba      2264/ 364      MH total gross    4951     MN-WUMS           1058
Ont. total   22447/ 535         Wpg River       560     MN-IOWA           -720
     NW        724/  65         7 Sisters       163     MNEX              1153
Sask.         2384/  78      OH total gross   23037     East Bias          412
MP            1666/ 119         northwest       943     SPC>WAPA (B10T)    166
NSP           8741/ 710      SPC total gross   2627     MH>SPC  (3-230)     75
N. Dakota     1744/ 272      MP total gross    2100     MH>SPC  (FALLS)    -71
Manitoba       556 MVARS     ND Cfd AC gross   3034     OH>MH  @Kenora    -197
Ont. total   13190 MVARS               net      2863     OH>MP  @Ft Fran    150
     NW        425 MVARS     NSP East gross    1928     OH E>W @Wawa      -202
Sask.          569 MVARS               net      1819     OH>East USA         -2
MP             445 MVARS         West gross    2239     F601C  @Forbes    1948
NSP           1513 MVARS               net      2073     D602F  @Dorsey    1860
N. Dakota      362 MVARS         Total net     7218     L20D   @Letell     199
                             WAPA SD Hydro     1441     R50M   @Richer     152
                             Pleasant Valley      0     G82R   @Glenboro   -39
                             Lakefield Gen      549
                             Buffalo Ridge      151
                             Swing Bus          620


Tfmrs          MVA/ Load     Ph Shifters  Deg/  MW      DC Lines          MW
------------- ---- -----     ------------ --- -----     --------------- ------
Wshell #1 7-7  100/  50%     Stinson       50/  108     CU (1,2)          1075
Wshell #2 7-7  100/  50%     Boundary Dam  26/  166     Miles City E>W    -150
Drayton#1 4-7   41/  29%     Whiteshell    16/  200     SQ BU (3,4)        400
```

Drayton#2	4-7	53/	28%	Int Falls	31/ 150	MH Bipole 1	1511
Dorsey #1	2-4	878/	73%	St. Lawrence	7/ 2	MH Bipole 2	1710
Dorsey #2	2-4	1038/	86%			MH (BP1+BP2)	3221
Forbes	2-4	116/	17%				

Dorsey SC's		I/S	MVAR	Qmax/ Qmin
MIL 7-9G	17.0	2	557	600/ -330
SCE 1-3G	18.2	3	447	480/ -240
SCA 4-6G	18.2	3	447	480/ -240
Total			1451	1560/ -810
Margin			109	

SVC's	MVAR	Qmax/ Qmin
Forbes	500	34 400/ -450
Fargo	13.2	2 20/ -135
Watertown	20.0	49 125/ -86

Series Caps	Num In Serv
Roseau 500	2 of 2
Chisago 500	1 of 1

Caps/Reactors	MVAR	Caps/Reactors	MVAR	Caps/Reactors	MVAR
Balta (FS) 230	0	Arrowhead 230	160	Chisago T 9 34.5	50
Drayton 115	20	Blackberry 230	47	Chisago T 10 34.5	50
Drayton 13.8	0	Minntac 115	45	Forbes 230	72
Eau Claire(FS) 161	356	Riverton 230	47	Forbes 500	600
Kohlman Lake 115	233	Roseau Co.(FS) 230	0		0
Parkers Lk(FS) 115	240	Running (FS) 230	30	Fargo 115	54
Prairie (FS) 115	40	Running react 230	0	Watertown 20	20
Ramsey (FS) 230	0	Shannon 230	72	Watertown 230	76
Red Rock 115	156		0		0
Rugby 13.8	-25	Glenboro 230	0		0
Split Rock(FS) 115	80	Laverendrye 110	98		0
Sheyenne (FS) 115	40	Richer react 230	0		0
Wilton/Bemidji 115	0	St Vital 110	98		0

Bus Voltages	V,pu	Bus Voltages	V,pu	Bus Voltages	V,kV
Adams 345	1.016	Arrowhead 230	1.025	Whiteshell 110	118.8
Alexandria 115	0.982	Badoura 115	0.984	Kenora 220	240.8
Audubon 115	1.010	Blackberry 230	1.021	Dryden 220	241.4
Bemidji 115	0.985	Boise Cascade 13.8	1.067	Fort Frances 220	235.5
Byron 345	1.036	Boise Cascade 115	1.013	Mackenzie 220	243.7
Chisago Co. 345	1.001	ETCO 115	0.994	Lakehead 220	245.5
Chisago Co. 500	0.992	Forbes 230	1.002	Marathon 220	239.3
Drayton 230	1.029	Forbes 500	0.990	Wawa 220	235.1
Eau Claire 345	0.956	Hubbard 115	0.976	Mississagi 220	232.6
Faribault,West 115	1.023	Intl Falls 115	1.012	Fort Frances 118	118.4
LaPorte 115	0.984	Minntac 115	1.001	Lakehead 118	123.5
Maple River 230	1.005	Moranville 230	1.034	Birch 118	121.4
Marshall Tap 115	1.019	Riverton 230	0.983	Marathon 118	124.3
Owatonna 161	0.999	Running 230	1.026		0.0
Prairie 115	1.006	Shannon 230	1.020		0.0
Prairie 230	1.026		0.000		0.0
Ramsey 230	1.027	Groton 345	1.019		0.0
Roseau County 230	1.035	Watertown 230	1.030		0.0
Roseau County 500	1.061	Watertown 345	1.027		0.0
Sheyenne 230	1.006		0.000		0.0
Thief R Falls 115	1.014	Dorsey 230	1.045		0.0
Tioga 230	1.039	Dorsey 500	1.032		0.0
Wahpeton 230	0.991		0.000		0.0
Winger 115	1.024		0.000		0.0

Steady State Relay Margins (measured from inner blinder)

Relay Location	Manuf/Type	PSS Model	South	North	Em North
1) B10T-Tioga (South)	GE OST	SLLP	337%	N/A	N/A
2) -Tioga (North)	GE OST	SLLP	694%	N/A	N/A

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 3)     -Tioga (Em North)  GE OST       SLLP                    N/A       N/A
 4) D602F-Dorsey           ATP ???      SLINOS       325%       N/A       N/A
 5)      -Forbes (Normal)  ATP ???      SLINOS       205%       N/A       N/A
 6)      -Forbes (Em Nrth) APT S-PRO    SLINOS                  N/A       N/A
 8) F3M-Intl Falls         APT S-PRO    SLINOS       315%       N/A       N/A
 9) G82R-Rugby             APT          SLINOS       N/A       1329%
10) L20D-Drayton (Normal)  APT, ASEA    SLINOS      1094%       N/A       N/A
11)     -Drayton (Em Nrth) ASEA RXZF2   SLINOS                  N/A       N/A
12) R50M-Moranville (Norm) APT, West    SLINOS       879%       N/A       N/A
13)     -Moranville (Em N) ASEA RXZF2   SLINOS                  N/A       N/A

1*** 304-so03aa.uyvV4V4-xp3-nt                              Page   3

     SIMULATION CHECKS FOLLOW:
+    ________________________

 ITER DELTAV/TOL X------ AT BUS ------X  REAL(DELTAV)  IMAG(DELTAV)
    1    48.135  67171 [MBPP-1  230.00]   -0.4015E-04    0.2655E-04
    2    15.296  67171 [MBPP-1  230.00]   -0.1329E-04    0.7576E-05
    3     5.569  67171 [MBPP-1  230.00]    0.4259E-05   -0.3589E-05
    4     2.086  67171 [MBPP-1  230.00]   -0.1606E-05    0.1330E-05
    5     0.819  67171 [MBPP-1  230.00]    0.6450E-06   -0.5055E-06

 REACHED TOLERANCE IN   5 ITERATIONS

 LARGEST MISMATCH:    0.00 MW    0.01 MVAR     0.01 MVA AT BUS 36023 [SLINE; B138.00]
 SYSTEM TOTAL ABSOLUTE MISMATCH:               0.33 MVA

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 INITIAL CONDITION LOAD FLOW USED  1 ITERATIONS

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 INITIAL CONDITIONS SUSPECT:
     I   DSTATE(I)    STATE(I)     MODEL   STATE    BUS  X--- NAME ---X   ID
 19523  -0.30413E-02 -0.22715      IEEEX1   K+2   59823  MOCTG1 113.800   1
 19952  -0.12614E-02  0.10000      IEEET1   K+1   63802  CBLUF33G24.000   3
 19968  -0.78183E-02  0.10000      IEEET1   K+1   63882  NEAL  2G20.000   2
 19972  -0.57429E-02  0.10000      IEEET1   K+1   63883  NEAL  3G22.000   3
 19976  -0.48500E-02  0.10000      IEEET1   K+1   63884  NEAL  4G24.000   4
 20033  -0.24382E-02  0.10000      IEEET1   K+1   64496  AMES 8  69.000   8
 20092  -0.18895E-02 -0.14396      IEEET1   K+1   65301  FT CAL1G22.000   1
 22050   0.29647E-04 -0.22582E-02  IEEET1   K+1   93518  OK C G6 18.000   H
 24934   0.26199     -0.47962E-01  GASTWD   K+5   65314  SARPY 4G13.800   4
 27811   0.40143      0.17527      GAST2A   K+5   68347  CORYGT1G13.800   1
 27824   0.45155      0.98846E-02  GAST2A   K+5   68348  CORYGT2G13.800   2
 27839   0.47956     -0.82564E-01  GAST2A   K+5   68367  MERGT 1G13.800   1
 27852   0.47956     -0.82564E-01  GAST2A   K+5   68368  MERGT 2G13.800   2
 28070  -0.46492E-03  0.16854E-01  CGECN2   K+7   91008  MEC BV  0.5750   1
 28961  -0.25194       4.3804      IEEET1   K+1   63710  WISDOM 869.000   1
 28965  -0.29168       3.9423      IEEET1   K+1   63710  WISDOM 869.000   2
 29005  -0.26848       2.0140      IEEET1   K+1   66581  SPENCER869.000   1
 29082   0.42596     -0.33565      GAST2A   K+5   34910  EMERYGT118.000   1
 29095   0.42596     -0.33565      GAST2A   K+5   34911  EMERYGT218.000   1
 29118    2.8995      -8.5685      GAST2A   K+5    7998  WTV-GEN 22.000   1


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     LINE SWITCHING EVENTS FOLLOW:
+    _____________________________
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     MHEB DC REDUCTIONS FOLLOW:
+    _________________________


     NETWORK NOT CONVERGED FOLLOW:
+    ____________________________


     RELOUV AND RELOUF SWITCHING EVENTS FOLLOW:
+    __________________________________________


     DC SWITCHING EVENTS FOLLOW:
+    ___________________________


     VSCAN EVENTS FOLLOW:
+    ____________________
```



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     PI 4 KV EVENTS FOLLOW:
+    ______________________


     RELAY SCAN EVENTS FOLLOW:
+    _________________________


     FARGO/WATERTOWN SVS EVENTS FOLLOW:
+    __________________________________


     UDHOLD EVENTS FOLLOW:
+    _____________________


     DYNAMIC VOLTAGE CHECKS FOLLOW:
+    ______________________________

         FROM TIME      0.4000 TO TIME      5.0000
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CHAN NO.	DESCRIPTION	PU VOLT MAX .LT.	PU VOLT MIN .GT.	MINIMUM VOLT	MINIMUM TIME	MAXIMUM VOLT	MAXIMUM TIME	VMAX LESS VMIN
444	67503 DORSEY	1.25	0.70	1.04	1.17	1.05	0.57	0.01
386	61624 FORBES	1.15	0.82	1.00	1.29	1.00	0.69	0.00
384	61615 ARROWHD	1.15	0.82	1.02	1.34	1.03	0.77	0.01
382	61612 RIVERTN	1.15	0.75	0.98	1.37	0.99	0.79	0.01
362	66752 DRAYTON	1.20	0.80	1.03	1.39	1.03	0.59	0.00
562	63229 WAHPETN	1.18	0.80	1.01	1.44	1.01	0.82	0.00
350	67104 TIOGA4	1.15	0.80	1.04	1.57	1.04	0.44	0.00
392	63030 DICKNSN	1.17	0.70	1.02	0.42	1.03	0.87	0.01
390	63041 COAL CR	1.18	0.70	1.03	1.47	1.04	2.09	0.01
334	66529 WATERTN	1.18	0.75	1.03	0.52	1.03	0.84	0.00

```
  360   67160 GROTON    1.15  0.70     1.02  1.59     1.02  2.19    0.00
  553   61754 BOISE     1.15  0.82     1.01  1.32     1.01  0.64    0.00


     POWERFLOW WARNINGS AT END OF SIMULATION FOLLOW:
+    ___________________________________________

BUSES WITH VOLTAGE GREATER THAN 1.1000:
X------ BUS -----X AREA V(PU)  V(KV)    X------ BUS -----X AREA V(PU)  V(KV)
67556 WHTSL1 4 220 667 1.1040 242.88    67589 WHTSL2 4 220 667 1.1040 242.87
67770 SK1 SUB7 110 667 1.1462 126.08    67771 STAR LK7 110 667 1.1449 125.94

BUSES WITH VOLTAGE LESS THAN 0.9500:
X------ BUS -----X AREA V(PU)  V(KV)    X------ BUS -----X AREA V(PU)  V(KV)
60149 MINVALT4 230 600 0.9457 217.51    60150 MNVLTAP4 230 600 0.9458 217.53
60156 PYNSVIL7 115 600 0.9482 109.04    60189 BLK DOG4 230 600 0.9219 212.03
60898 GLENCOE  115 600 0.8859 101.88    62001 BENSON 7 115 626 0.9434 108.49
62005 KERKHOT7 115 600 0.9304 107.00    62006 KERKHO 7 115 626 0.9366 107.71
62425 WILLMAR7 115 618 0.8950 102.93    62980 MCLEOD 4 230 618 0.8893 204.54
62981 MCLEOD 7 115 618 0.8924 102.62    62982 HTCHMN 7 115 618 0.8951 102.93
62983 HUTCH3M7 115 618 0.8945 102.87    63050 WILLMAR4 230 618 0.9334 214.69
63054 PANTHER4 230 600 0.9013 207.29    66789 BEMIDJIT 115 626 0.9335 107.35
69515 HLSBORO5 161 680 0.9290 149.56

 BRANCH CURRENT LOADINGS ABOVE 100.0 % OF RATING SET A
+        _______
X-------FROM BUS-------X  X--------TO BUS--------X       CURRENT(MVA)
  BUS    NAME  BSKV AREA    BUS    NAME  BSKV AREA CKT LOADING  RATING PERCENT
60107  W FARIB7 115  600  60265* LOON TP7 115  600  1    258.1   119.0   216.9
60108  WILMART3 345  600  60331* LKFLDXL3 345  600  1    897.6   574.0   156.4
60150  MNVLTAP4 230  600  63054* PANTHER4 230  600  1    423.3   388.0   109.1
60150* MNVLTAP4 230  600  66550  GRANITF4 230  652  1    438.4   318.0   137.9
60156  PYNSVIL7 115  600  62425* WILLMAR7 115  618  1    142.2    77.0   184.7
60197* CHIS CO2 500  600  60198  CHIS-N 2 500  600  1   1934.8  1732.0   111.7
60286* NOBLES 3 345  600  60287  NOBLES 7 115  600  1    468.5   448.0   104.6
60357* MAYNARD7 115  600  62005  KERKHOT7 115  600  1     79.9    78.0   102.5
62005* KERKHOT7 115  600  62425  WILLMAR7 115  618  1    112.5    77.0   146.1
62234  LKMARN 7 115  600  62865* AIRTECH7 115  600  1    156.5   139.0   112.6
62980  MCLEOD 4 230  618  63054* PANTHER4 230  600  1    369.0   319.0   115.7
63801* CBLUFFS5 161  635  63817  BUNGE 5  161  635  1    196.9   192.0   102.5
1*** 304-so03aa.uyvV4V4-xp3-nt                                Page   5

64203* NW FTDG5 161  635  64205  FT.DODG5 161  635  1    167.1   167.0   100.1
64203  NW FTDG5 161  635  64230* POMEROY5 161  635  1    214.2   136.0   157.5
64239* FRANKLN5 161  635  64285  BUTLER 5 161  635  1    243.6   181.0   134.6
    *** BRANCH OVERCURRENT SEARCH TERMINATED AT 15 RECORDS ***

 TRANSFORMER MVA LOADINGS ABOVE 100.0 % OF RATING SET A
+            ___
X-------FROM BUS-------X  X--------TO BUS--------X       MVA      MVA
  BUS    NAME  BSKV AREA    BUS    NAME  BSKV AREA CKT LOADING  RATING PERCENT
60286* NOBLES 3 345  600  60287  NOBLES 7 115  600  1    482.3   448.0   107.7

--------------------------------------------------------------------------------
          FAST SWITCH CAPACITOR PERFORMANCE:

     BUSNUM  BUS NAME    # CAPS   SIZE    SSON    FINAL   AVAIL
      63056  BALTAJCT       3      60       0       0       3
      60305  EAU CLA5       4      89       4       4       0
      60234  PARKERS7       3      80       3       3       0
      60116  PRASWCP7      12      40       1       1      11
      63047  RAMSEY 4       2      30       0       0       2
      60168  ROSSWCP4       2      30       0       0       2
      60167  RUNSWCP4       6      30       1       1       5
      60172  SHYSWCP7       5      40       1       1       4
      60129  SPLT RK7       2      80       1       2       0


--------------------------------------------------------------------------------
          INITIAL **NORMAL** RELAY MARGINS/IMPEDENCES (ZRE/ZIM):     VIOLATION *
```

```
     B10T : RELAY MARGIN AT TIOGA IS            :    338 %   -0.6430    0.1094 N
     G82R : RELAY MARGIN AT RUGBY IS            :    999 %    1.9205   -1.2216 N
     L20D : RELAY MARGIN AT DRAYTON IS          :    999 %   -0.5325    0.0632 N
     R50M : RELAY MARGIN AT MORANVILLE IS       :    879 %   -0.7104    0.0617 N
     F3M  : RELAY MARGIN AT INT.FALLS IS        :    315 %   -0.6375    0.1464 N
     D602F: RELAY MARGIN AT FORBES IS           :    206 %   -0.0482    0.0194 N
     D602F: RELAY MARGIN AT DORSEY IS           :    325 %    0.0538    0.0136 N
     D602F: RELAY MARGIN AT FORBES (DCAR) IS    :    507 %    0.0000    0.0000 N
-------------------------------------------------------------------------------
          MINIMUM TRANSIENT RELAY MARGINS: START TIME:  0.27500 SEC, VIOLATION *

     B10T : RELAY MARGIN AT TIOGA IS            :    323 %  AT TIME=   1.41661 N
     G82R : RELAY MARGIN AT RUGBY IS            :    999 %  AT TIME=   0.00000 N
     L20D : RELAY MARGIN AT DRAYTON IS          :    999 %  AT TIME=   0.00000 N
     R50M : RELAY MARGIN AT MORANVILLE IS       :    860 %  AT TIME=   1.39994 N
     F3M  : RELAY MARGIN AT INT. FALLS IS       :    309 %  AT TIME=   1.39161 N
     D602F: RELAY MARGIN AT FORBES IS           :    200 %  AT TIME=   1.37495 N
     D602F: RELAY MARGIN AT DORSEY IS           :    316 %  AT TIME=   1.37495 N
     D602F: RELAY MARGIN AT FORBES (DCAR)       :    479 %  AT TIME=   0.92496 N
-------------------------------------------------------------------------------
          OH - MH TRANSIENT PERFORMANCE:

     OH-MH: INITIAL OH-MH POWER, KENORA ANGLE   :  -197.3 MW        91.7 DEG
     OH-MH: MAX +  MW CHANGE @TIME, DLT ANGLE   :     1.0 MW  @  2.84988,   -0.3
     OH-MH: MAX -  MW CHANGE @TIME, DLT ANGLE   :     1.8 MW  @  1.95825,    0.3
     OH-MH: MAX ANGLE CHANGE @TIME, DLT POWER   :     1.4 DEG @  1.20829,   -0.2
-------------------------------------------------------------------------------
          RELAY MARGINS/IMPEDANCES (ZRE,ZIM)/FLOWS AT TIME=   5.00815

     B10T : RELAY MARGIN AT TIOGA IS            :    336 %   -0.6411    0.1084
     G82R : RELAY MARGIN AT RUGBY IS            :    999 %    1.9343   -1.2613
     L20D : RELAY MARGIN AT DRAYTON IS          :    999 %   -0.5304    0.0633
     R50M : RELAY MARGIN AT MORANVILLE IS       :    880 %   -0.7109    0.0619
     F3M  : RELAY MARGIN AT INT. FALLS IS       :    316 %   -0.6378    0.1474
     D602F: RELAY MARGIN AT FORBES IS           :    206 %   -0.0482    0.0194
     D602F: RELAY MARGIN AT DORSEY IS           :    326 %    0.0538    0.0136
     D602F: RELAY MARGIN AT FORBES (DCAR) IS    :    506 %   -0.0240   -0.0192
                           ---------------
     B10T : BOUNDARY DAM PHASE SHIFT FLOW       :   168.3 MVA ( SOUTH )
     F3M  : INTERNATIONAL FALLS PH. SHIFT FLOW  :   153.7 MVA ( SOUTH )
     MH-OH: FINAL OH-MH POWER, KENORA ANGLE     :  -197.4 MW        92.1 DEG
     EWTW : FINAL OH EAST-WEST TIES FLOW        :  -203.2 MW
-------------------------------------------------------------------------------
          USING **NORMAL** RELAYS SETTINGS AS FOLLOWS:

 B10T@TIOGA  : R1= 0.030 X1= 0.348 R2=-0.030 X2=-0.348 P1/2/3=0.223 0.283 0.350
 G82R@RUGBY  : A=  81.9 IN1= 0.250 IN2= 0.100 B=  81.9 IN3= -0.200 IN4= -0.350
 L20D@DRAYTON: A=  80.0 IN1= 0.175 IN2= 0.135 B=  80.0 IN3= -0.095 IN4= -0.136
 R50M@MORANVL: A=  76.3 IN1= 0.345 IN2= 0.245 B=  76.3 IN3= -0.198 IN4= -0.258
 F3M@INT.FALL: A=  76.3 IN1= 0.480 IN2= 0.300 B=  76.3 IN3= -0.200 IN4= -0.350
 D602F@DORSEY: A=  85.0 IN1= 0.041 IN2= 0.026 B=  85.0 IN3= -0.023 IN4= -0.036
 D602F@DORSEY: A=  85.0 IN1= 0.034 IN2= 0.026 B=  85.0 IN3= -0.024 IN4= -0.033
 D602F-DCAR  : ANGLE= 170.0 DCAO= -39.700 DCAI= -49.450
 K21W-DPDARE : XPs=  25.0 XPt= 150.0 XAt=   5.0 YPs=  25.0 YPt=  50.0 YAt=  20.0
 K22W-DPDARE : XPs=  25.0 XPt= 150.0 XAt=   5.0 YPs=  25.0 YPt=  50.0 YAt=  20.0
-------------------------------------------------------------------------------
```

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
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CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
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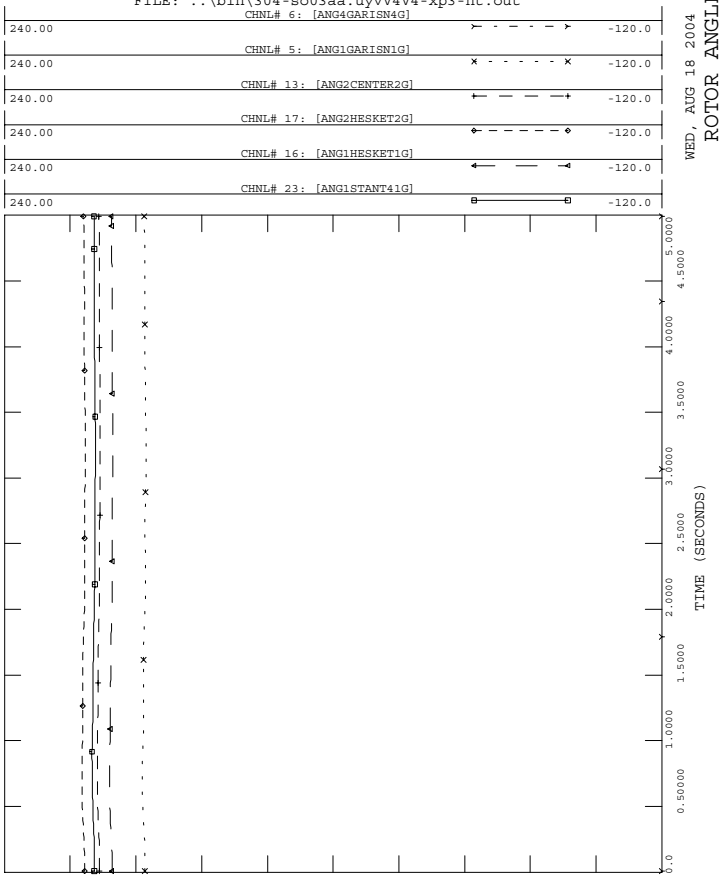
WED, AUG 18 2004 14:08
ROTOR ANGLES 2



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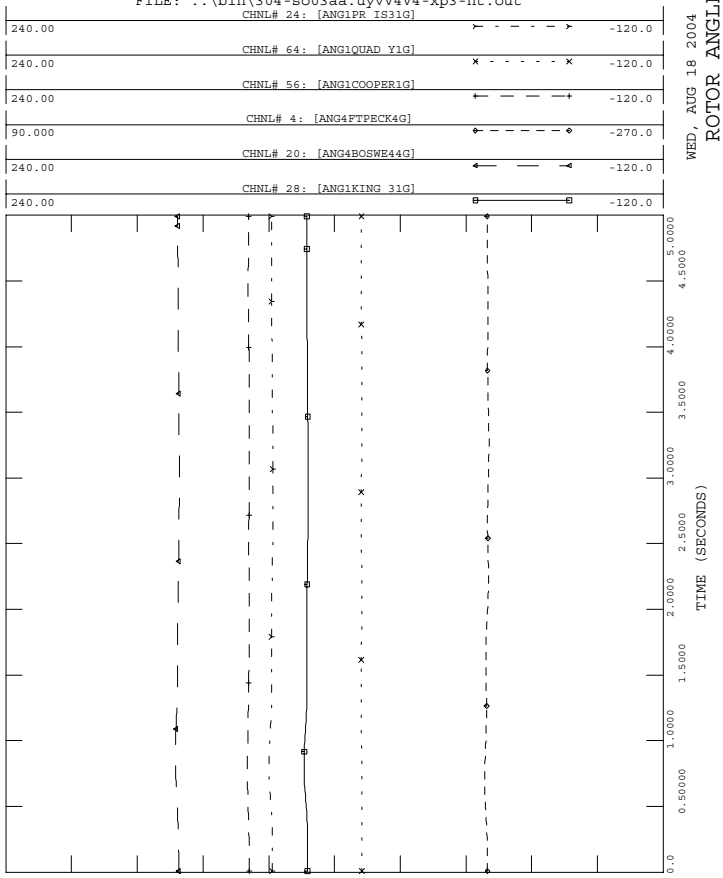

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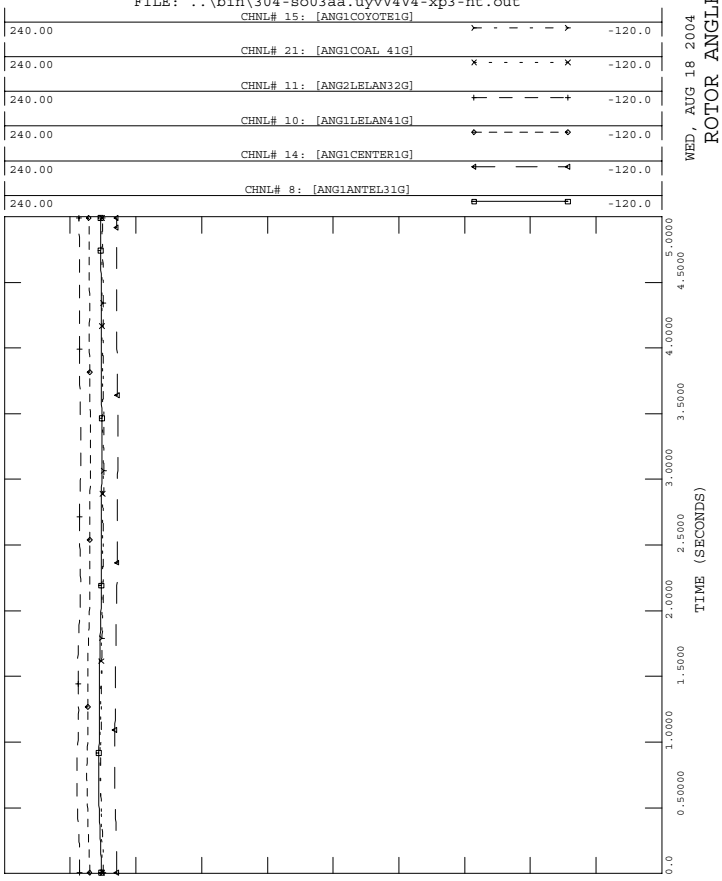

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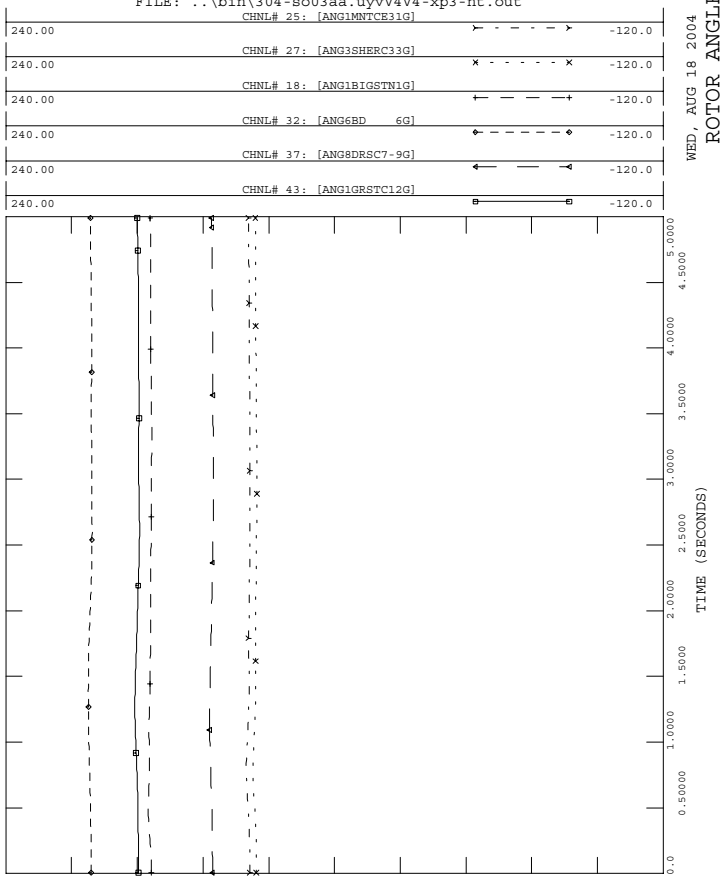

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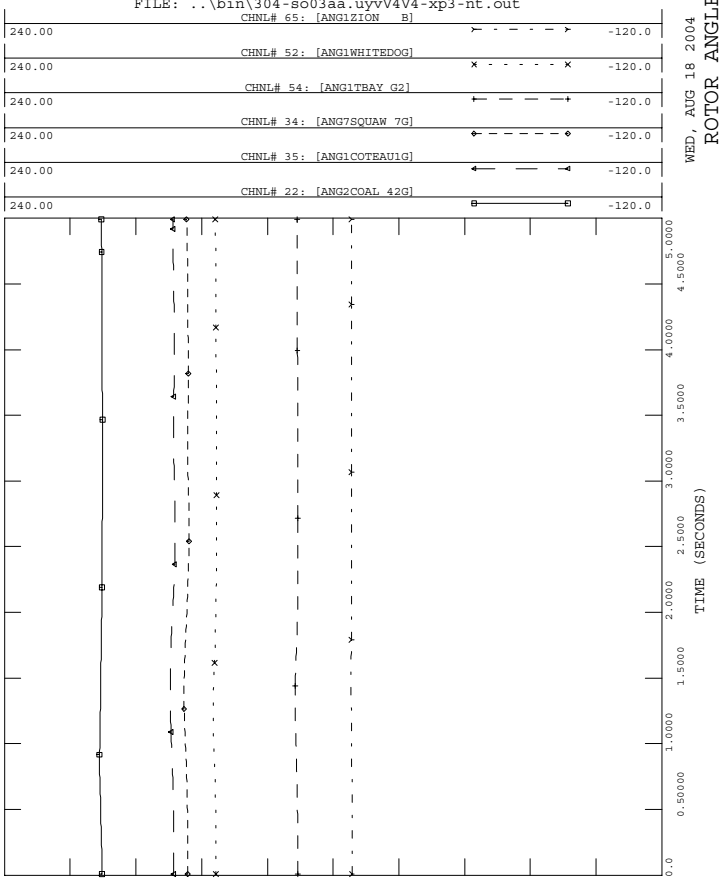
ROTOR ANGLES 6



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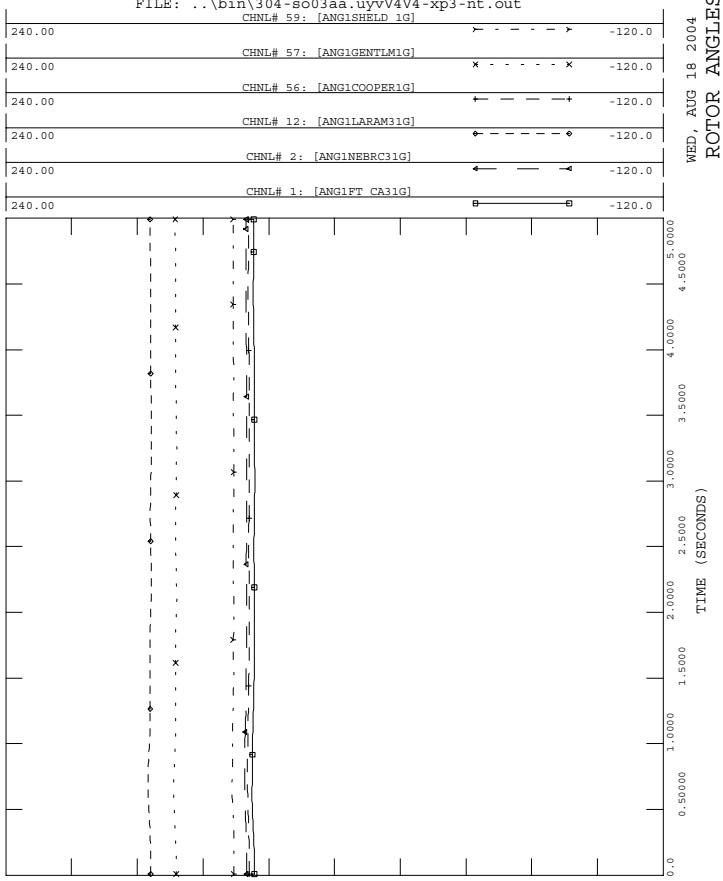

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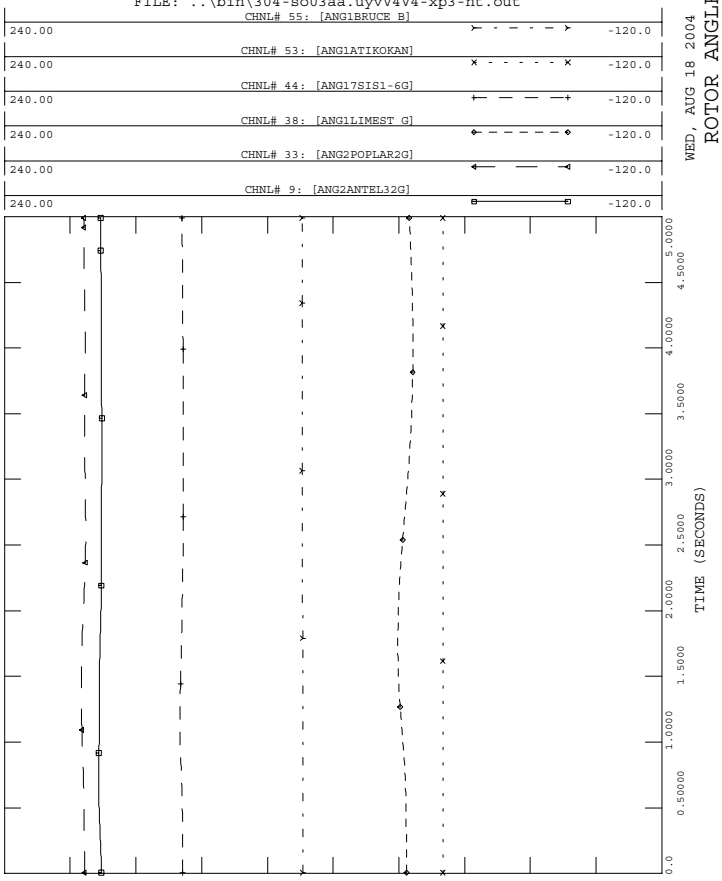

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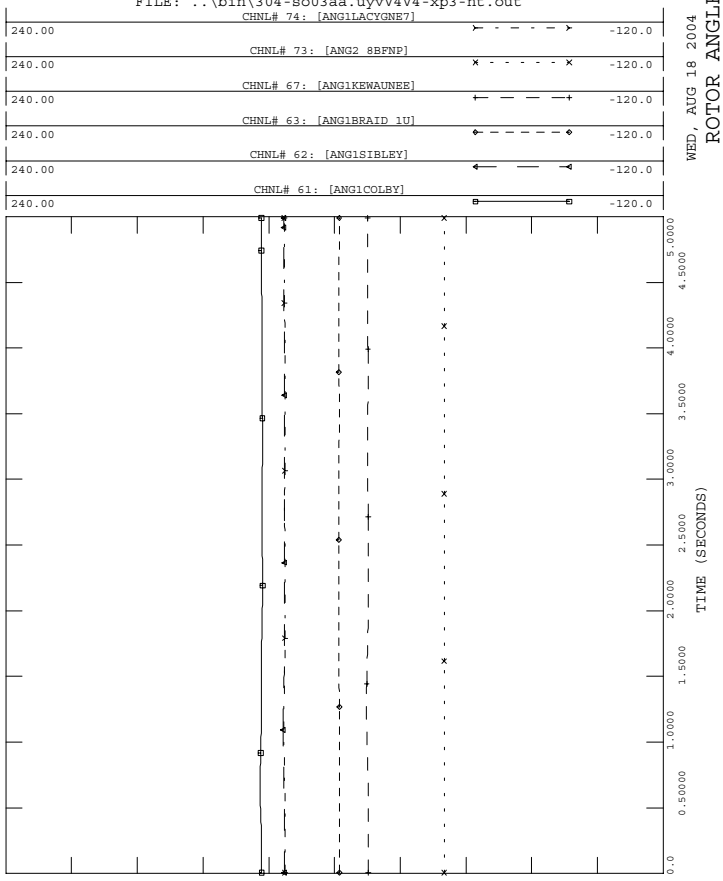
ROTOR ANGLES 7



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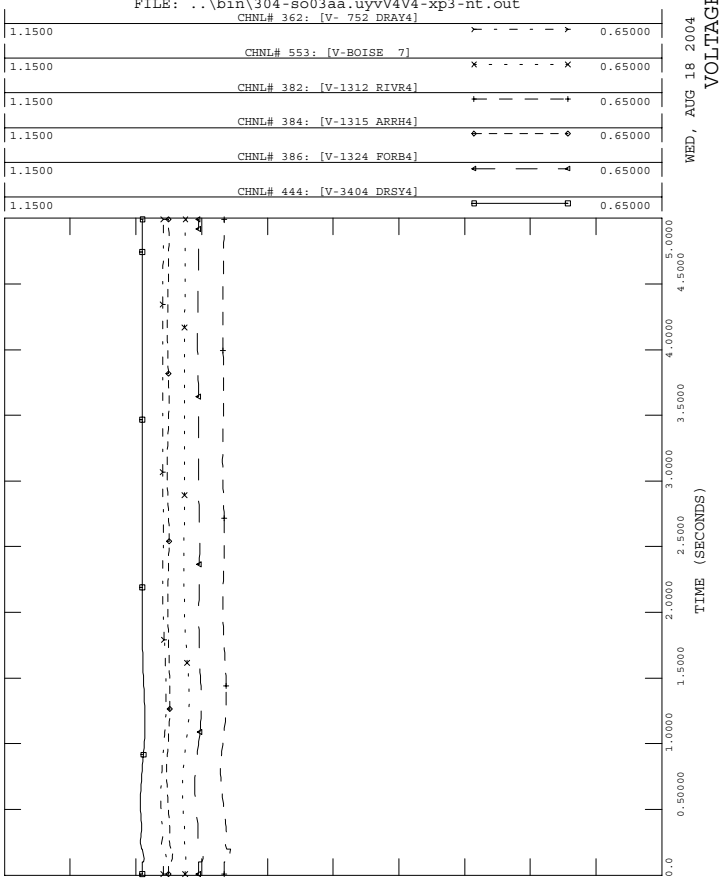

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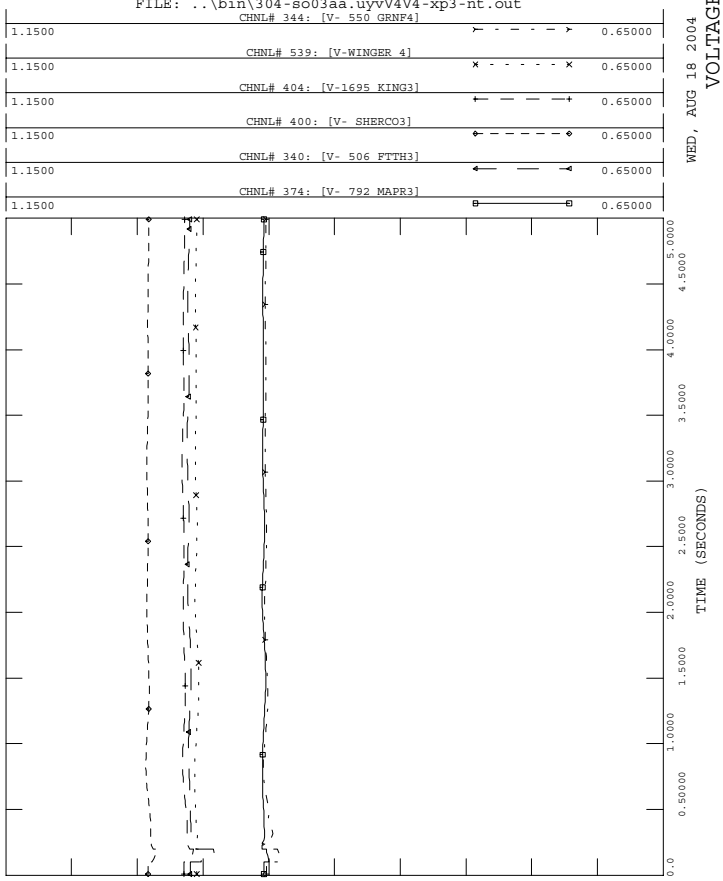
VOLTAGES 3



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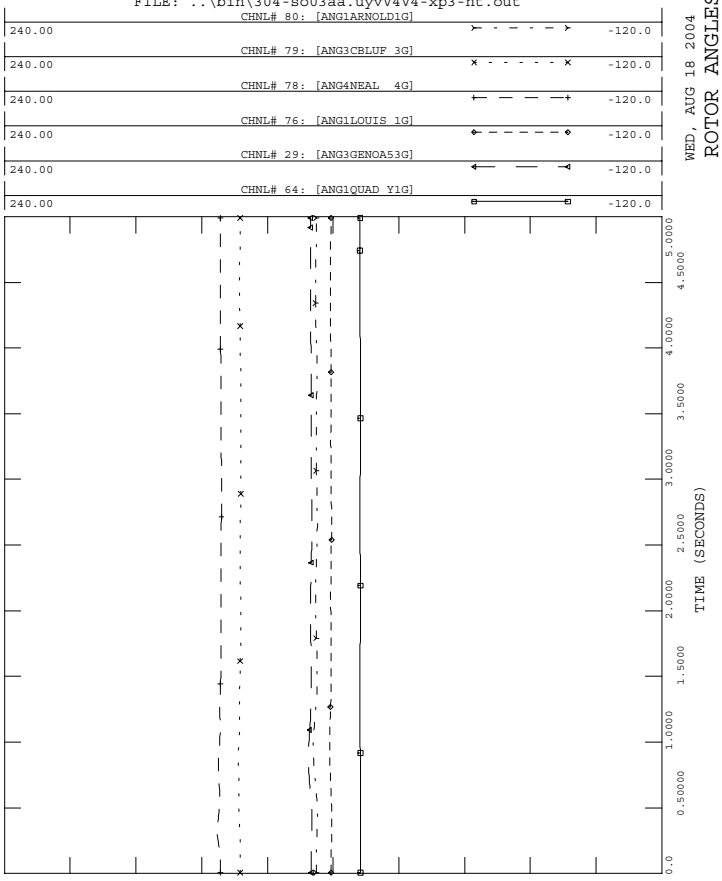
ROTOR ANGLES IA



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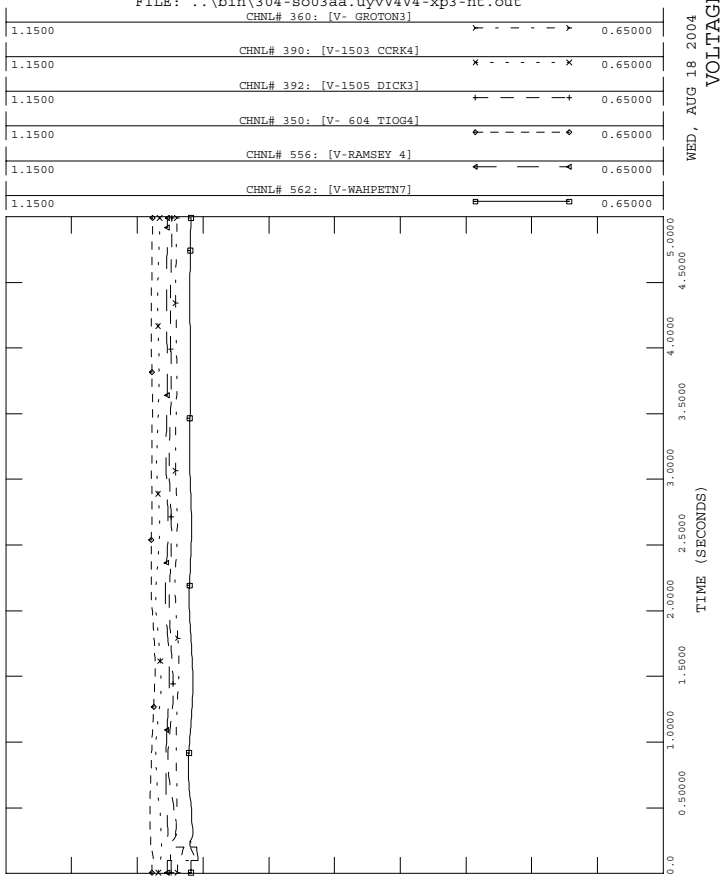
VOLTAGES 2



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CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
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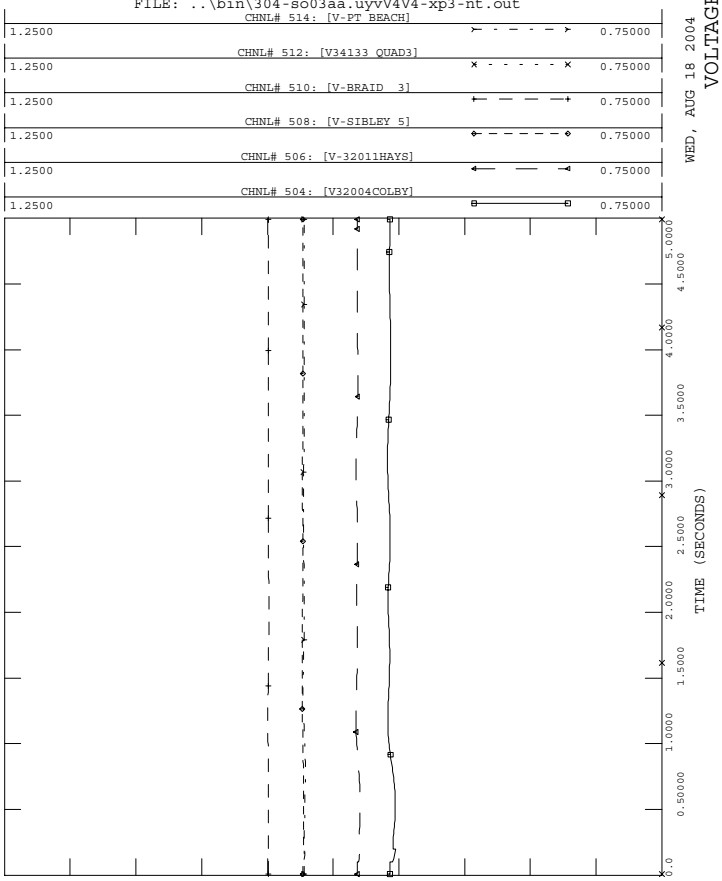

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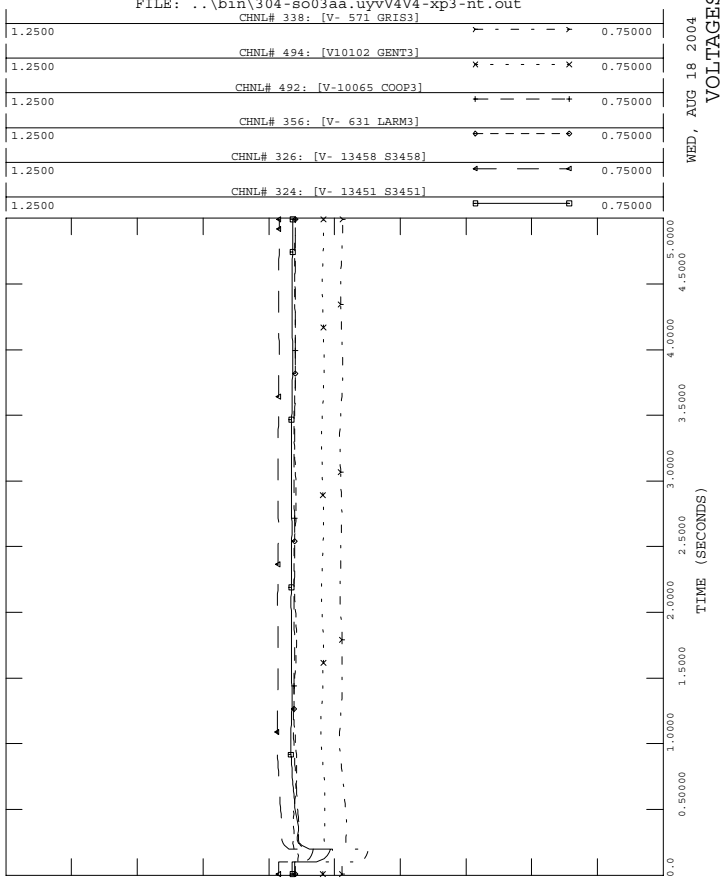

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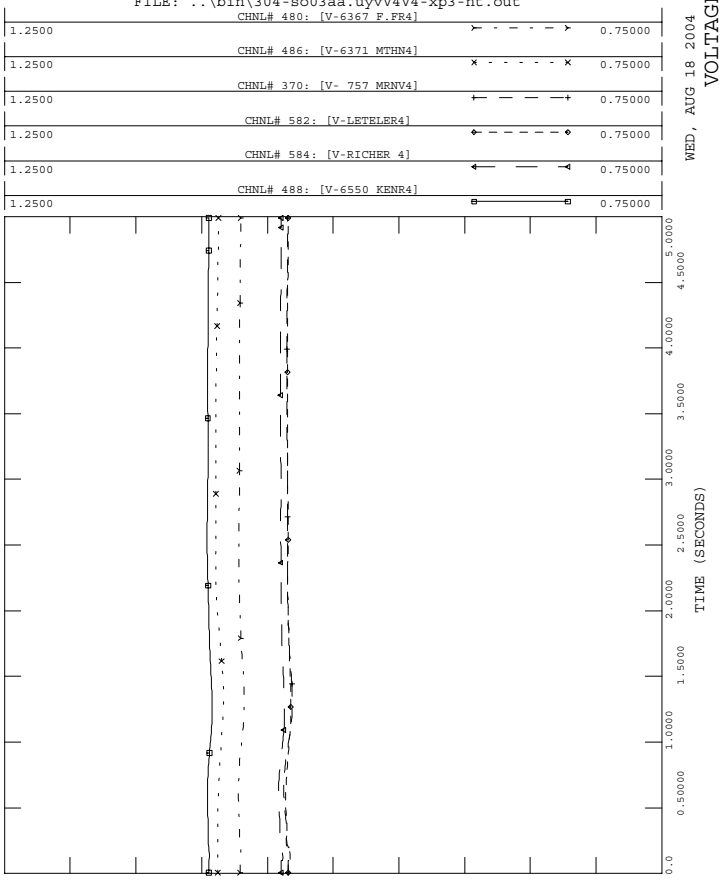

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6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

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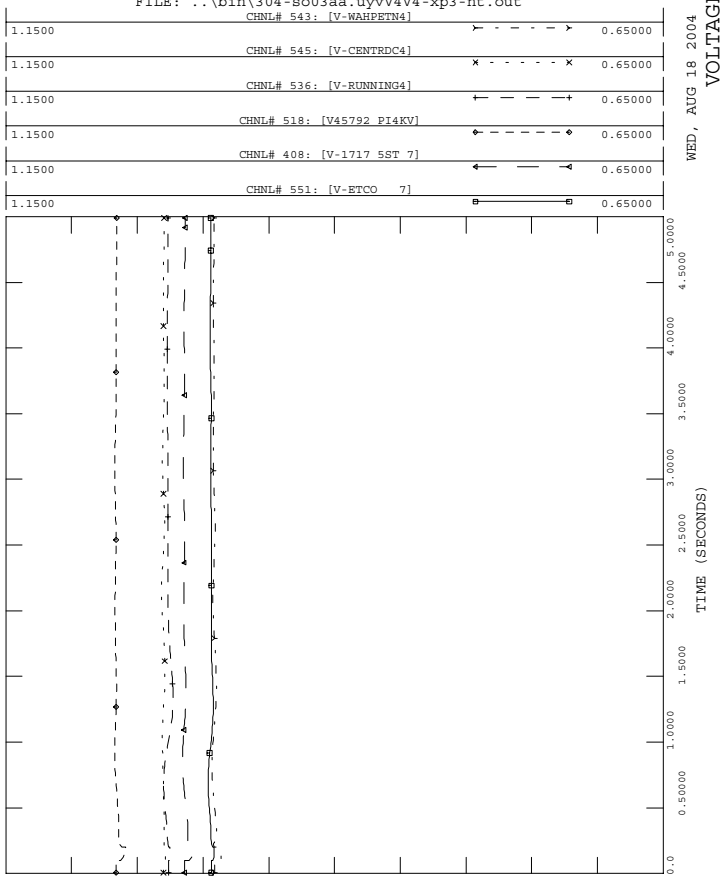

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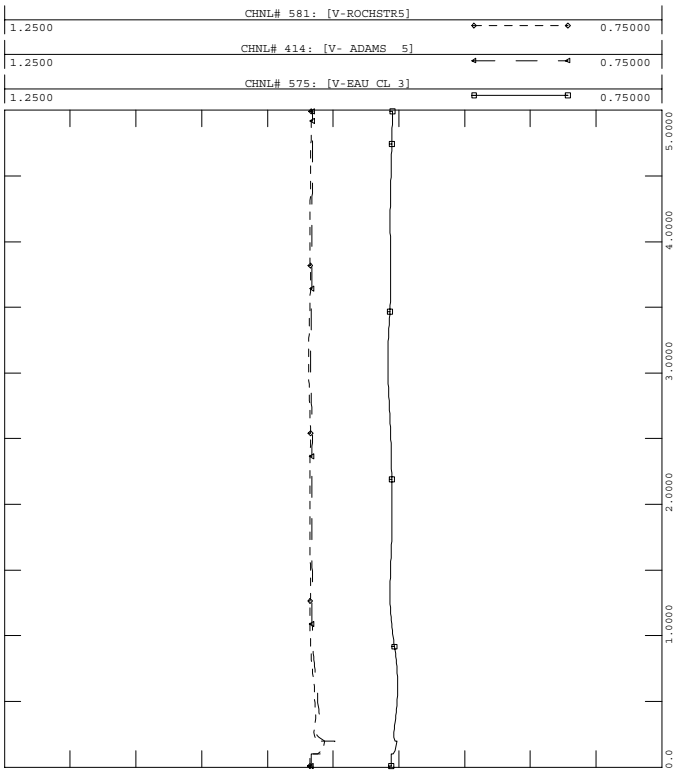
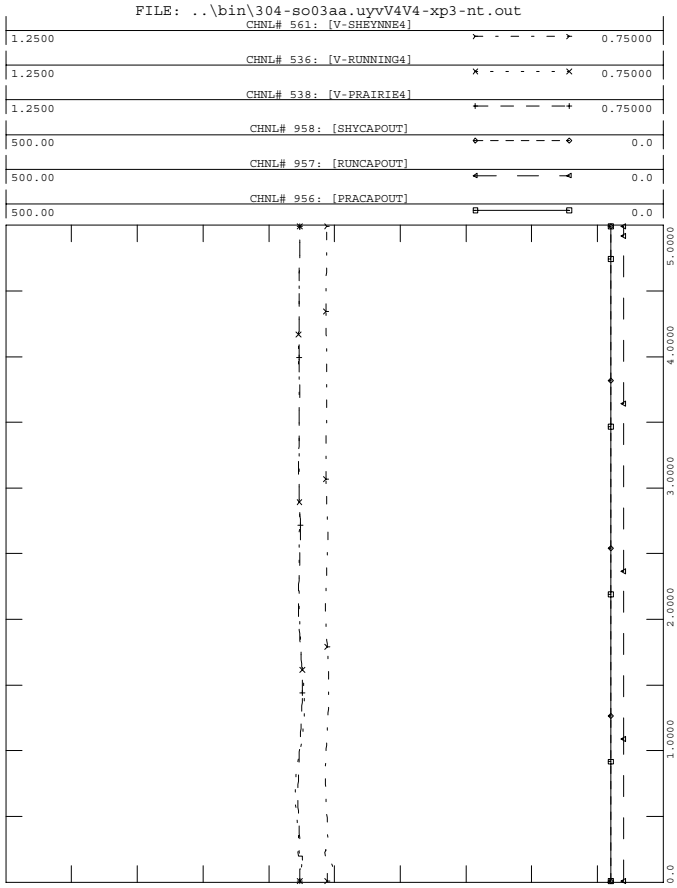
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

WED, AUG 18 2004 14:08
WISCONSIN VOLTAGES



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

WED, AUG 18 2004 14:08
FAST SW CAP OUT 1



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
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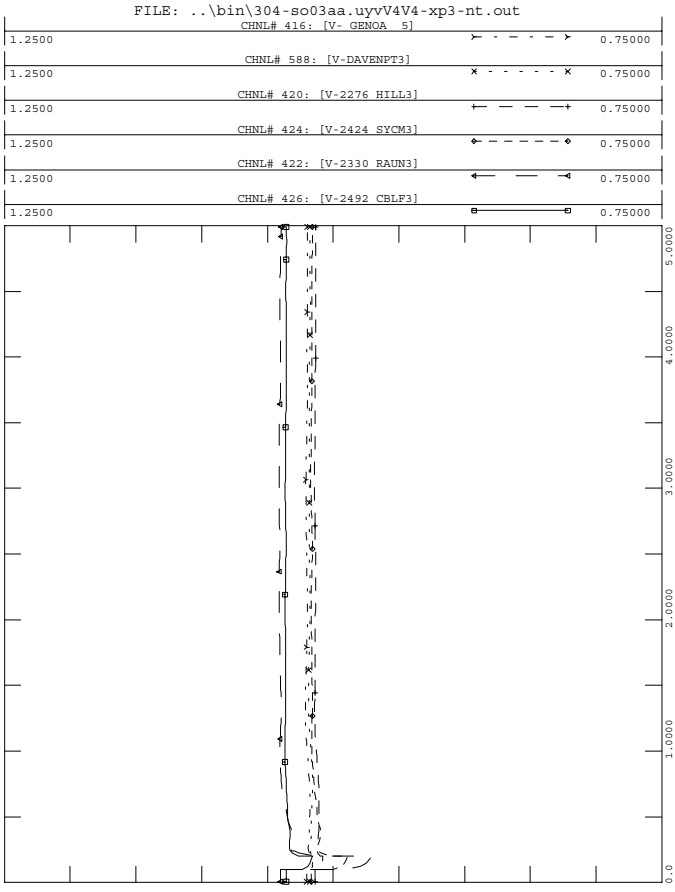
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

WED, AUG 18 2004 14:08
VOLTAGES IA



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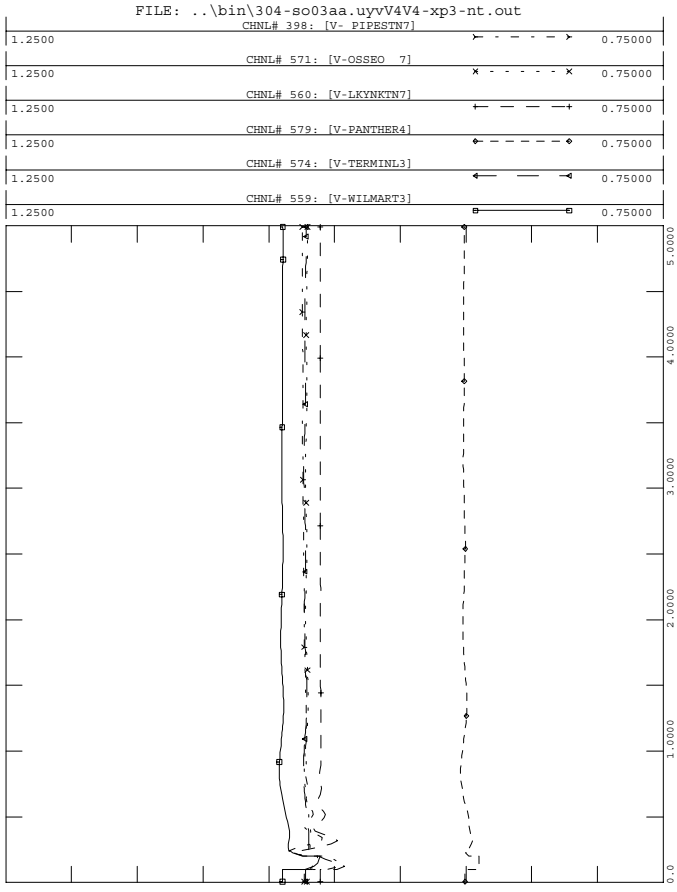
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

WED, AUG 18 2004 14:08
TC VOLTAGES



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
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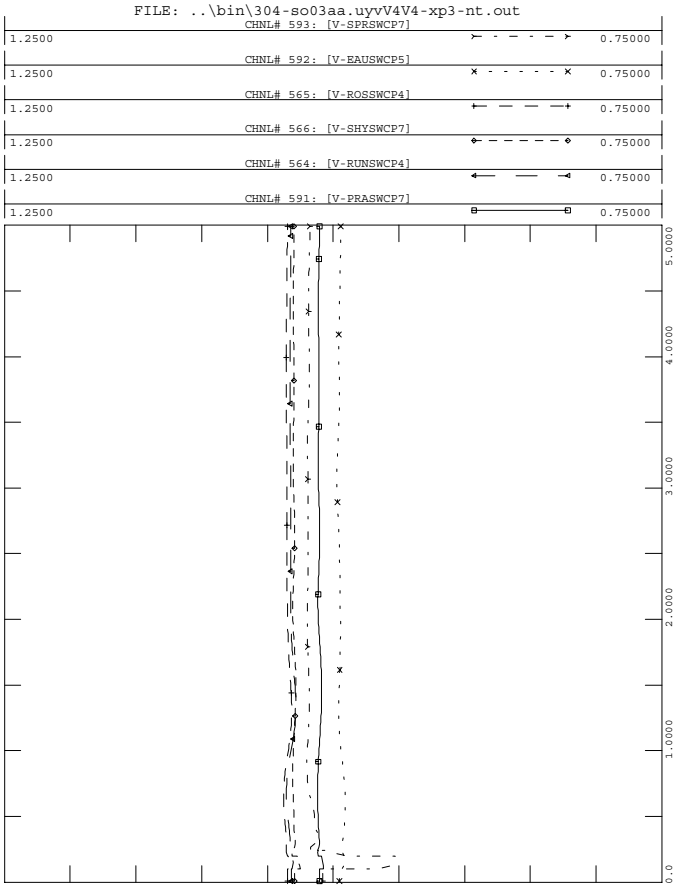
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out



WED, AUG 18 2004 14:08
FAST SW CAP VOLTAGES

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
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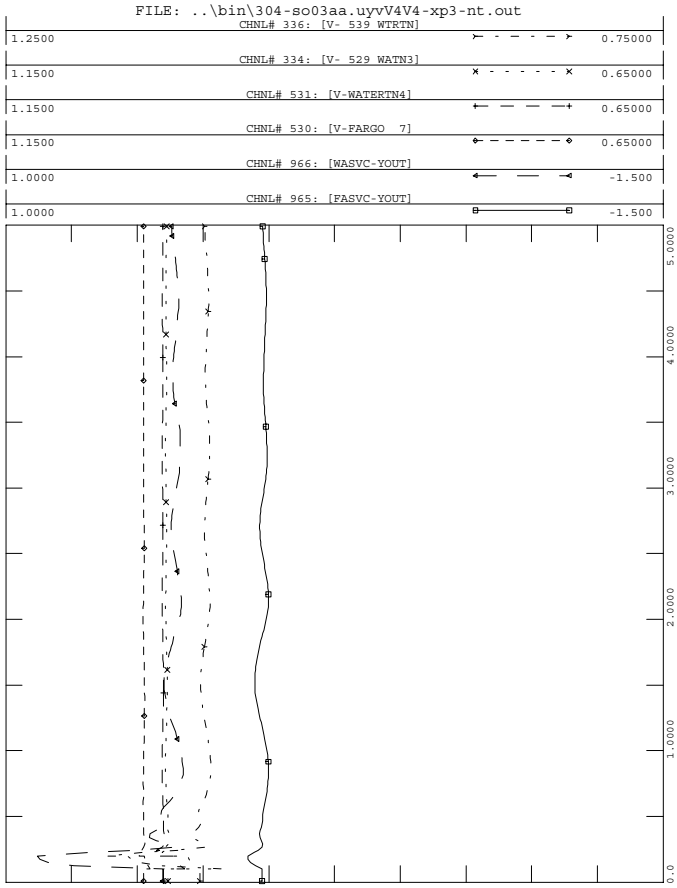
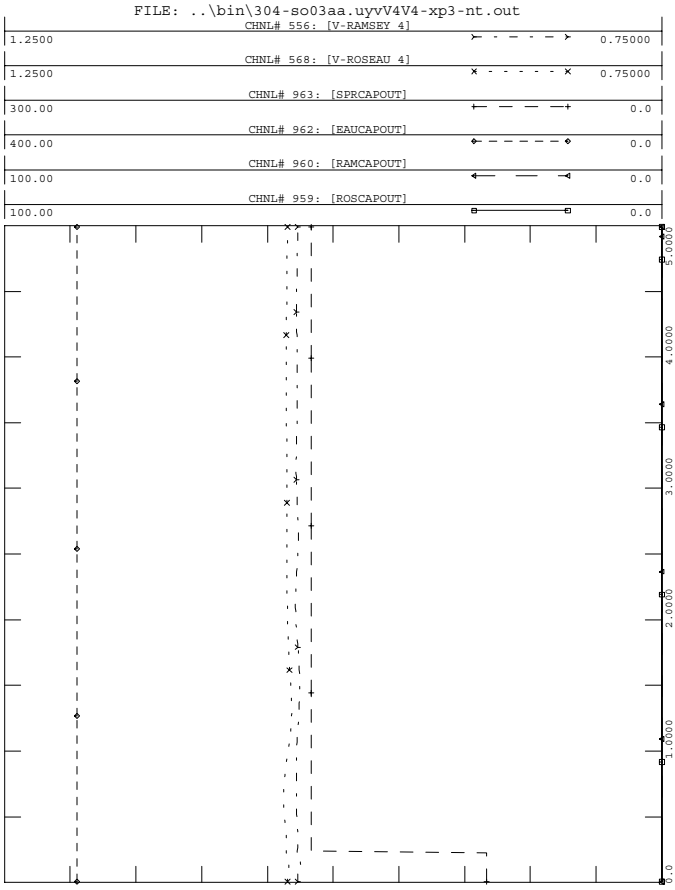
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out



WED, AUG 18 2004 14:08
FARGO/WATERTOWN SVS

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out



WED, AUG 18 2004 14:08
FAST SW CAP OUT 2

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
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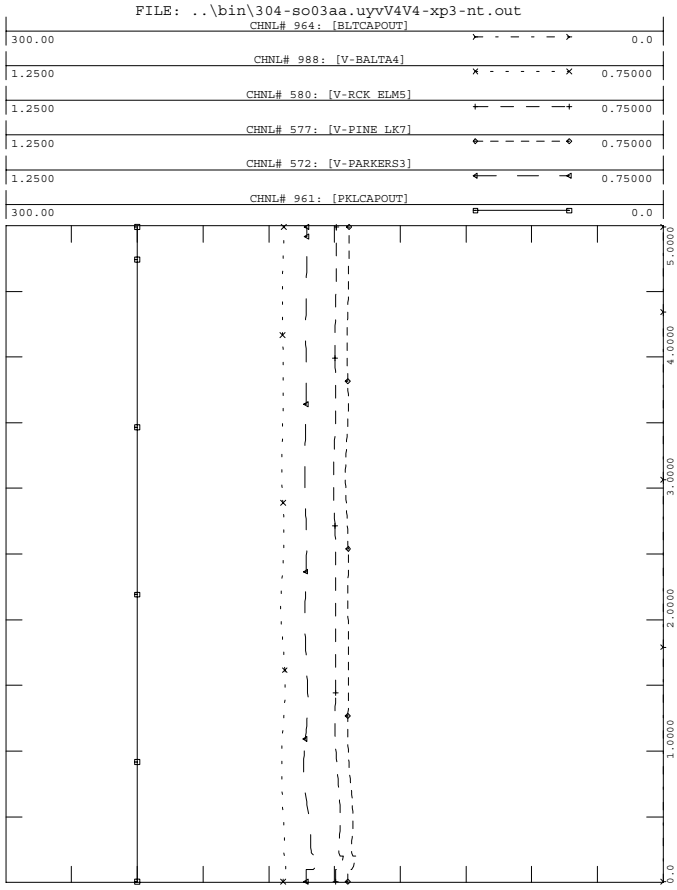
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out



WED, AUG 18 2004 14:08
FAST SW CAP VOLTAGES 2

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
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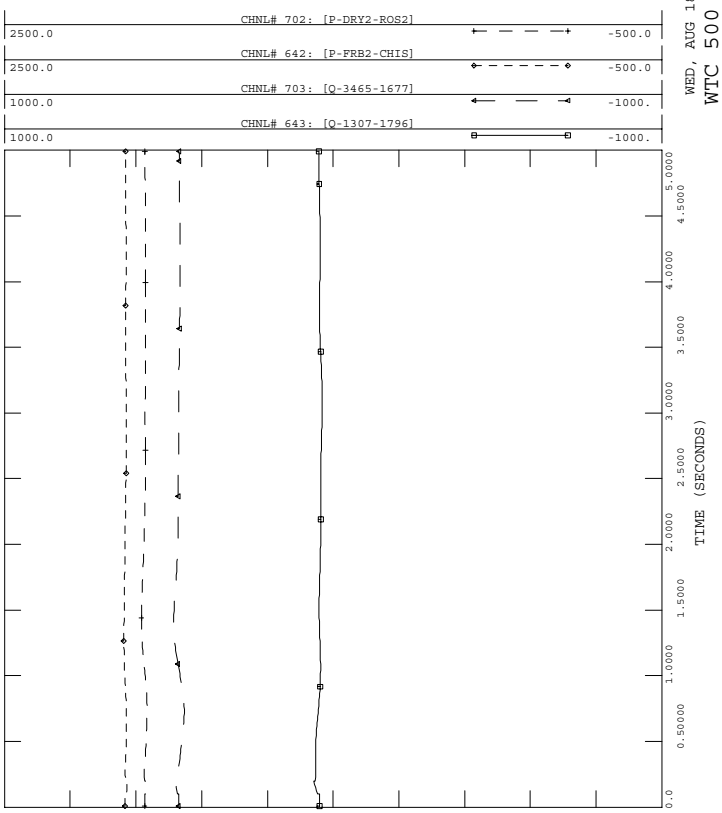
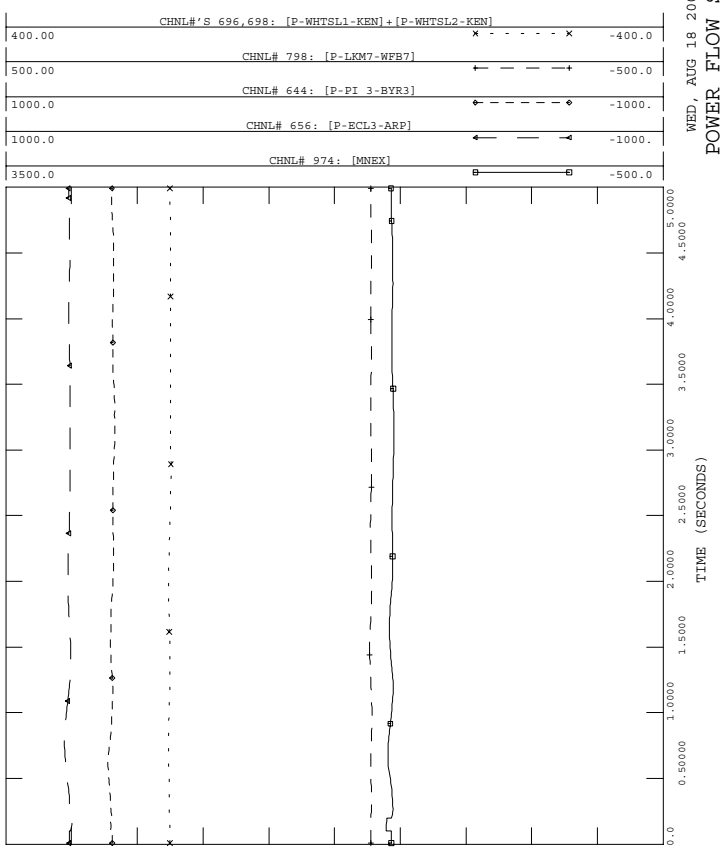
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

WED, AUG 18 2004 14:08
WTC 500 KV FLOWS



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

WED, AUG 18 2004 14:08
POWER FLOW SUMS 2



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
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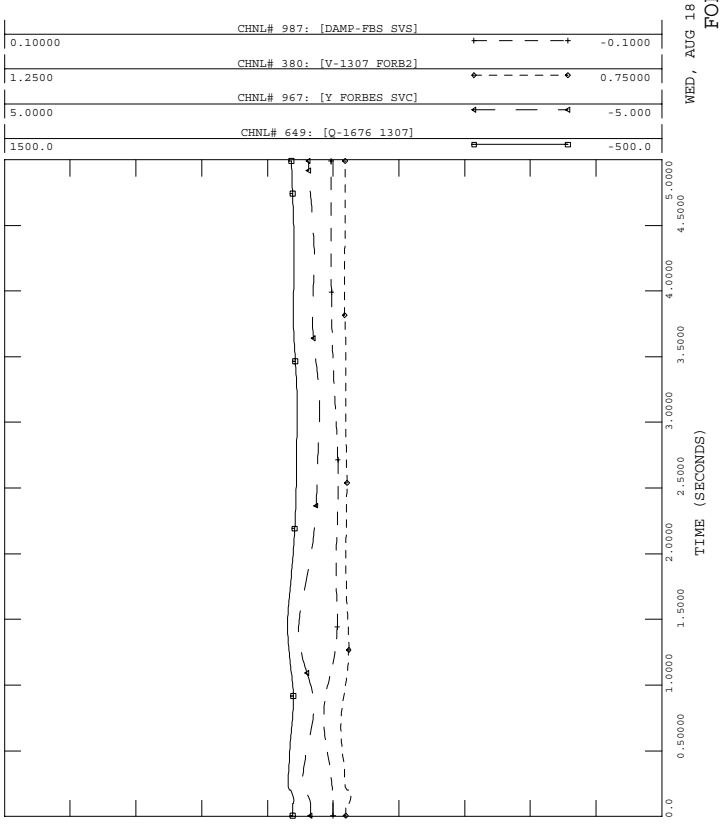
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

WED, AUG 18 2004 14:08
FORBES SVS



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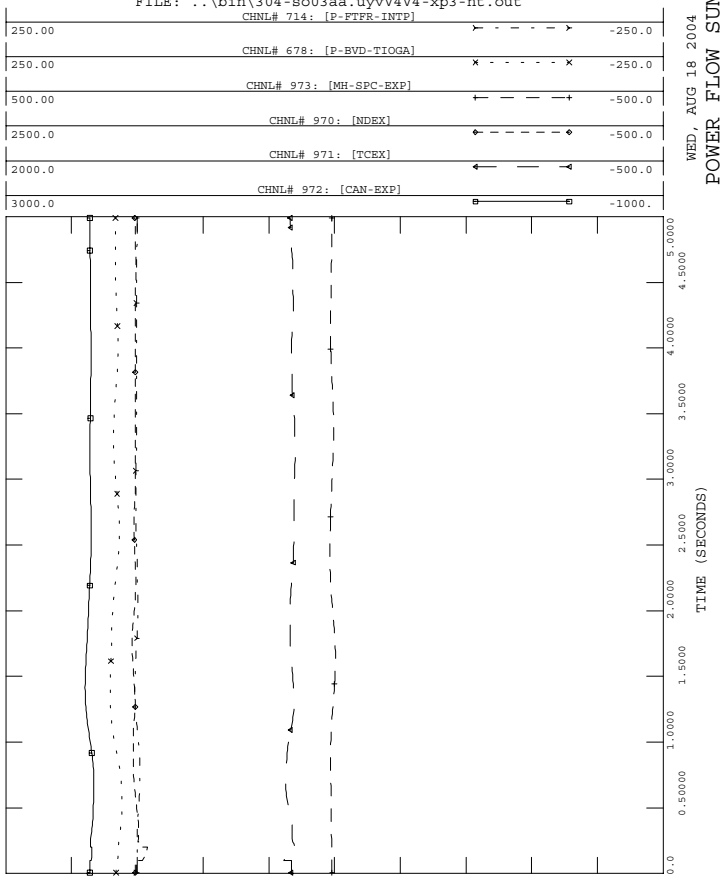
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

WED, AUG 18 2004 14:08
POWER FLOW SUMS 1



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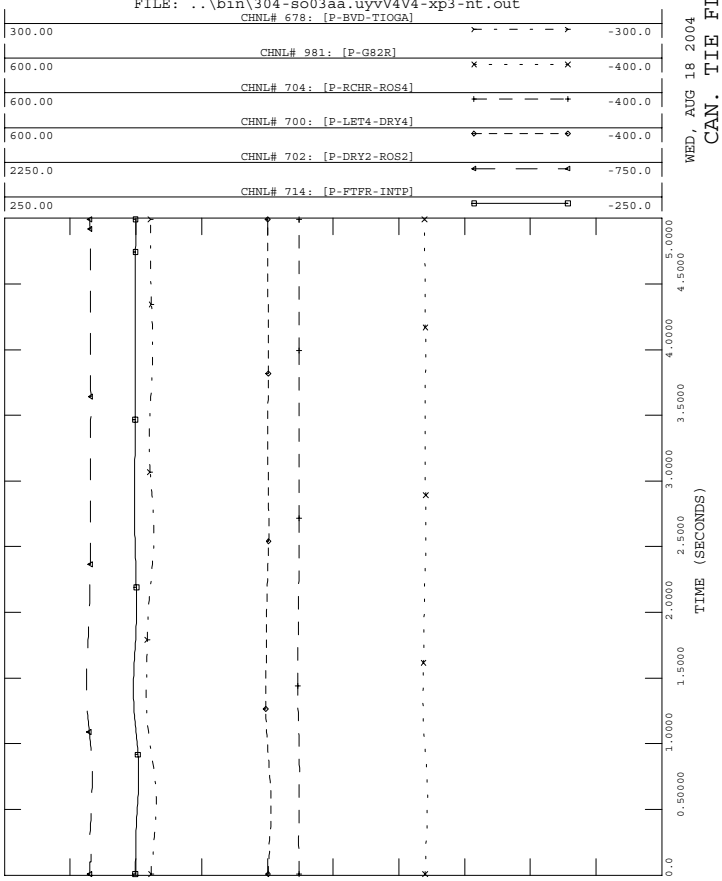
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

WED, AUG 18 2004 14:08
CAN. TIE FLOWS



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
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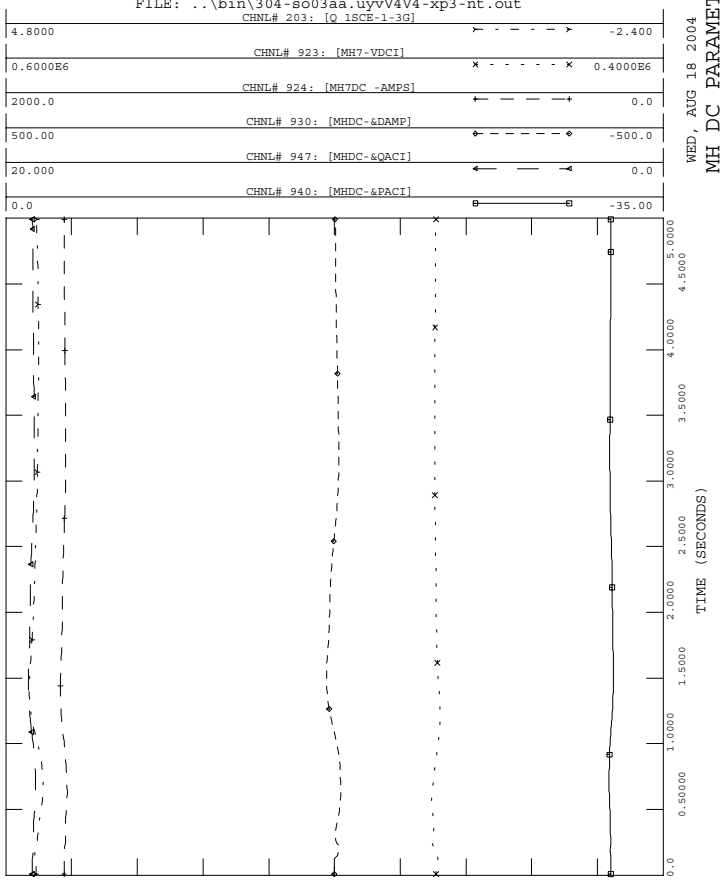
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

WED, AUG 18 2004 14:08
MH DC PARAMETERS



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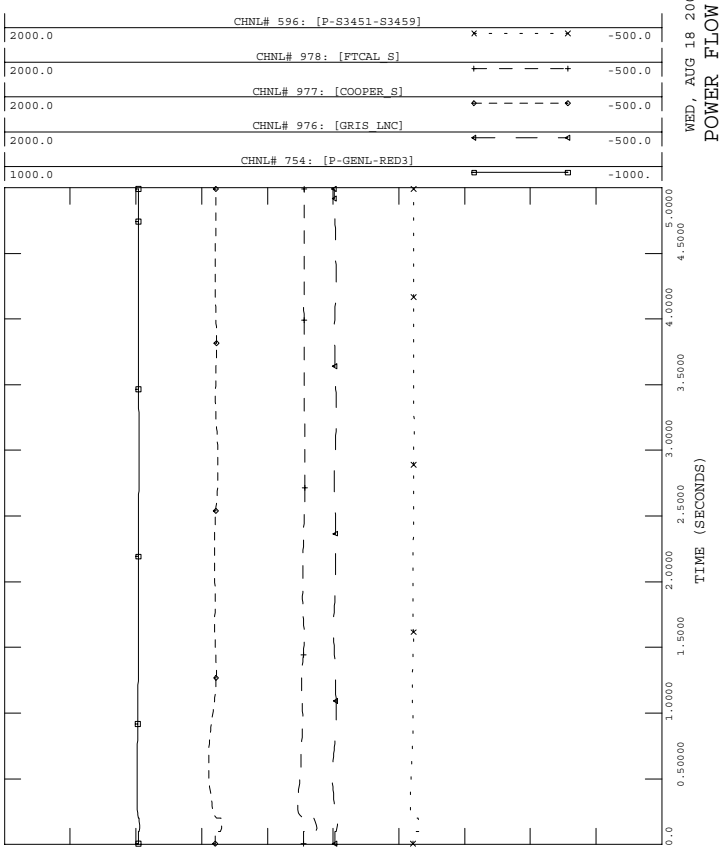
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

WED, AUG 18 2004 14:08
POWER FLOW SUM 3



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
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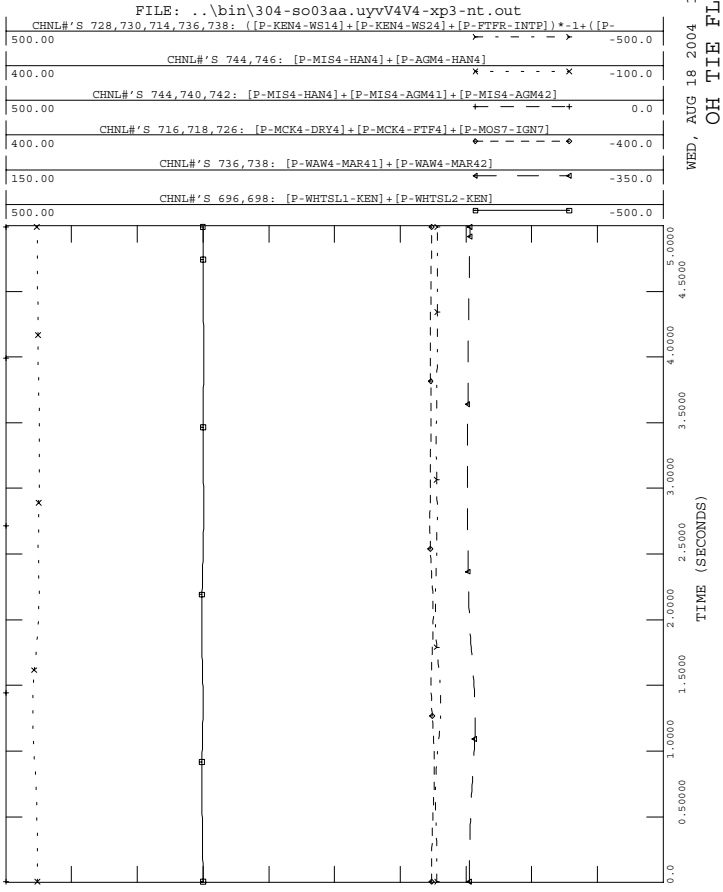
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

WED, AUG 18 2004 14:08
OH TIE FLOWS



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
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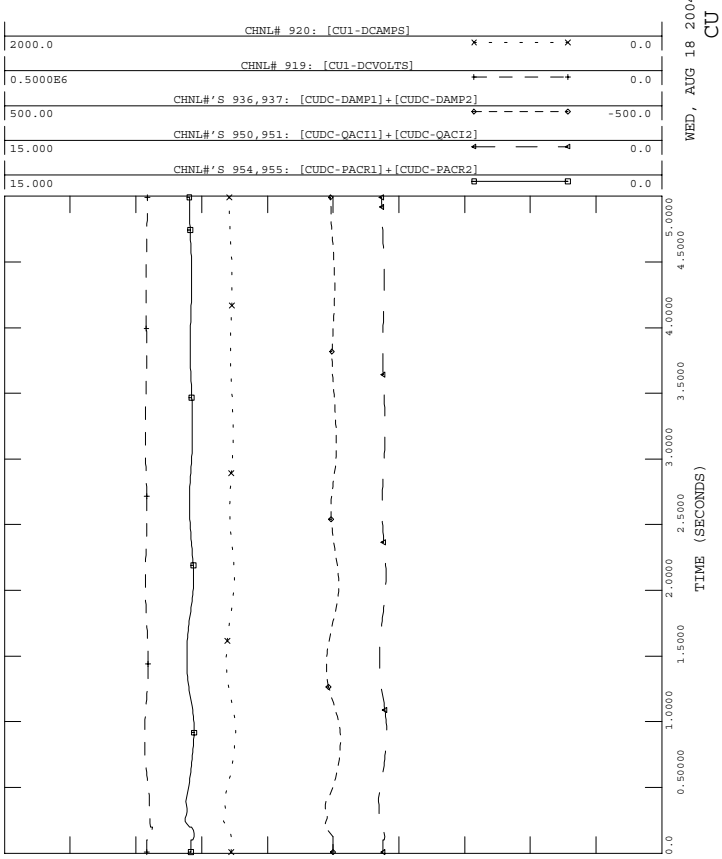
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

WED, AUG 18 2004 14:08

CU DC #1



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
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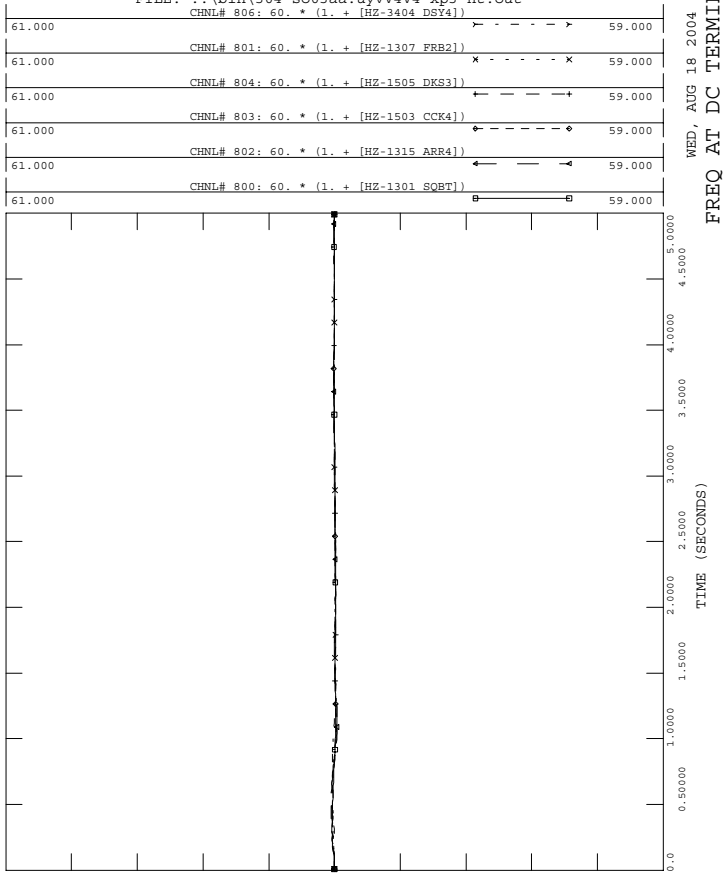
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

WED, AUG 18 2004 14:08

FREQ AT DC TERMINALS



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
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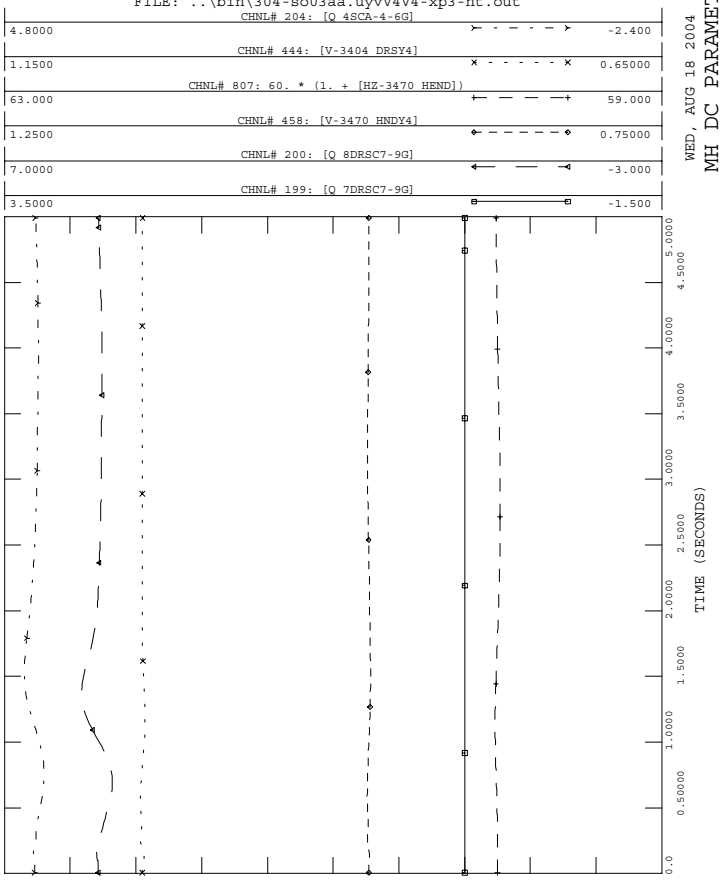
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

WED, AUG 18 2004 14:08

MH DC PARAMETERS



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
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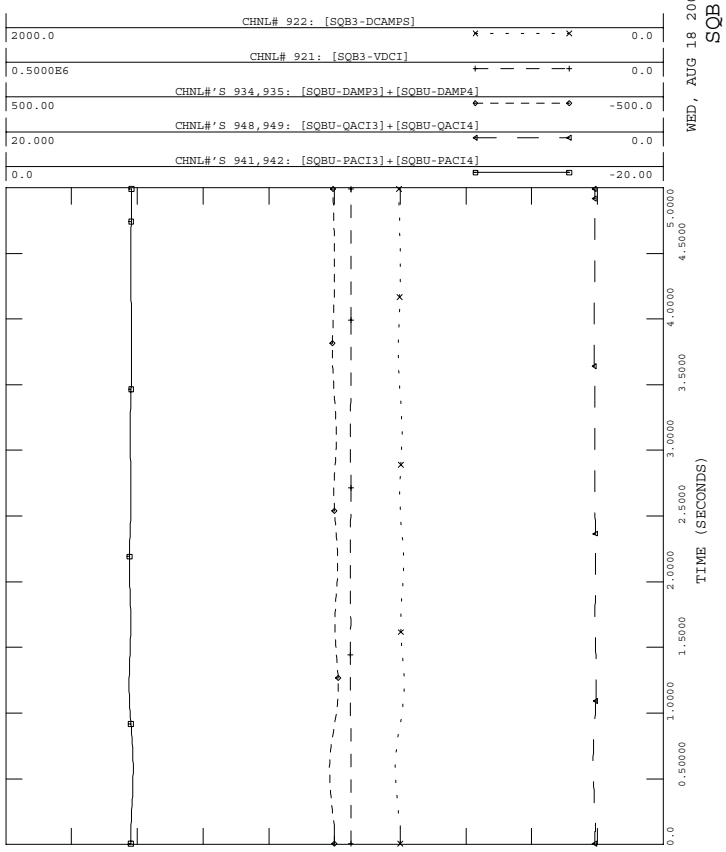
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

WED, AUG 18 2004 14:08

SQB DC #3



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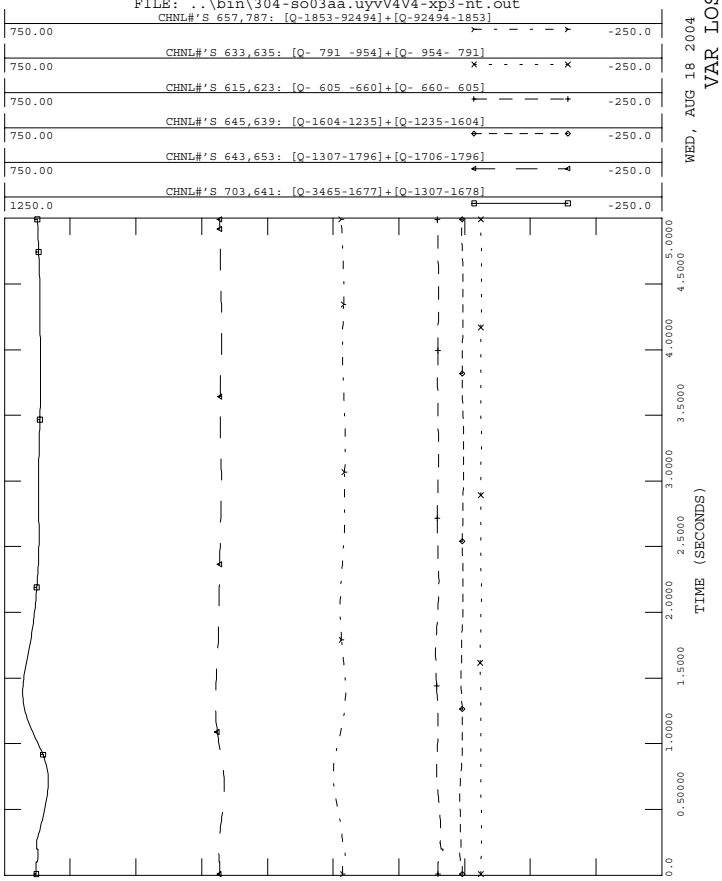
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

WED, AUG 18 2004 14:08
VAR LOSSES



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
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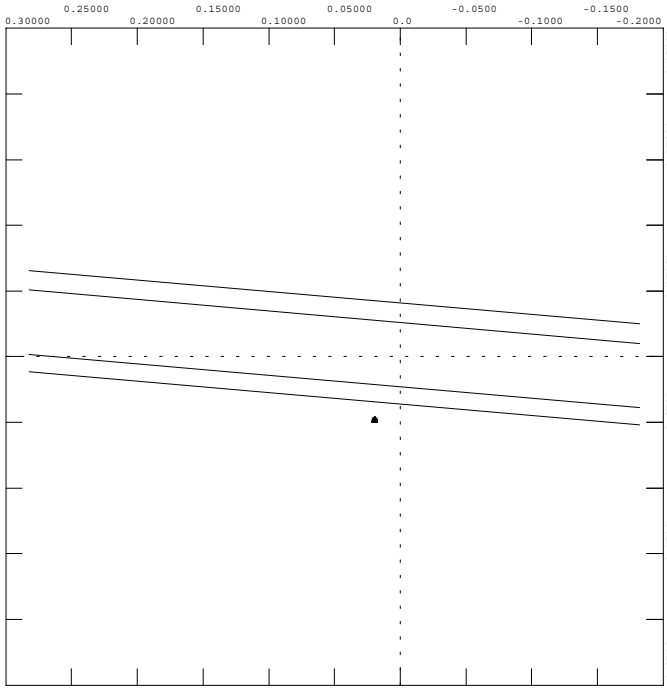
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 824: [X-FRB2-ROS2]

WED, AUG 18 2004 14:08
D602F-FORBES (612)



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
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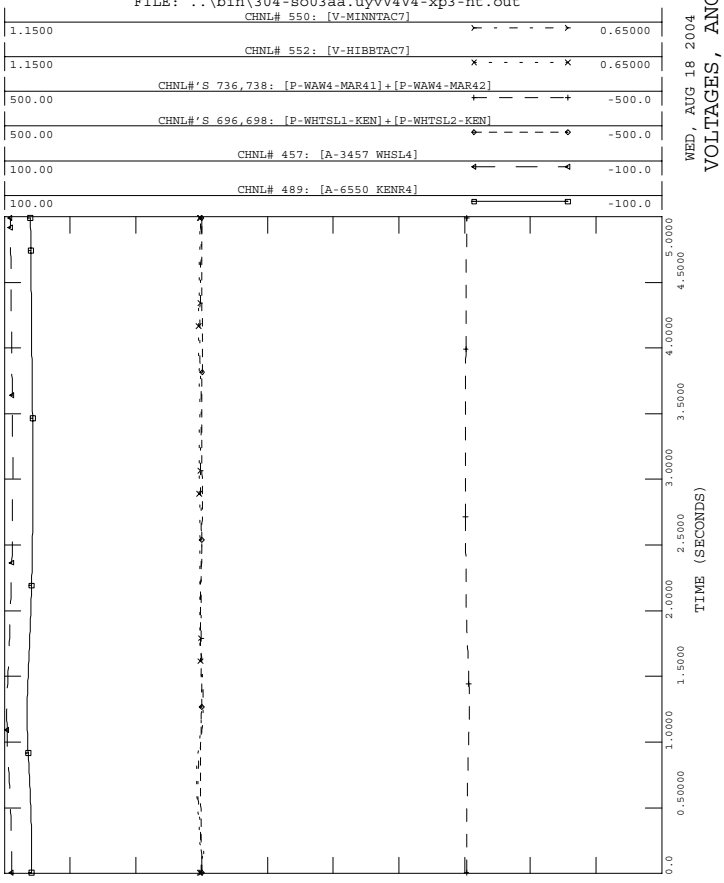
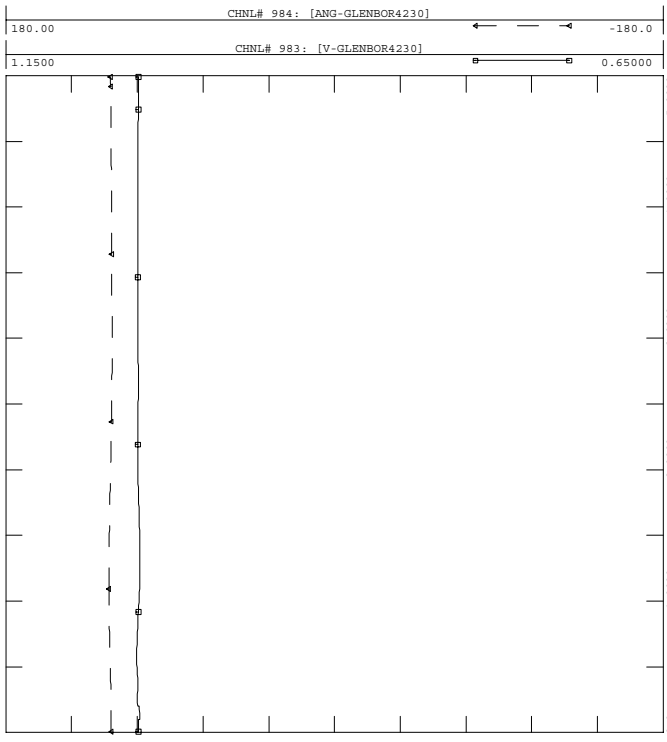
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

WED, AUG 18 2004 14:08
VOLTAGES, ANGLES



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

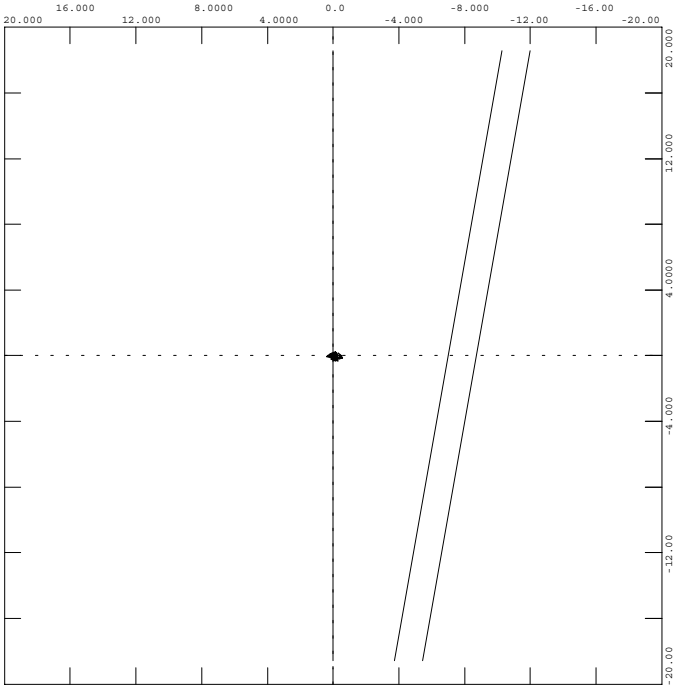
WED, AUG 18 2004 14:08
VOLTAGES, ANGLES



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 969: [DCAR-B]

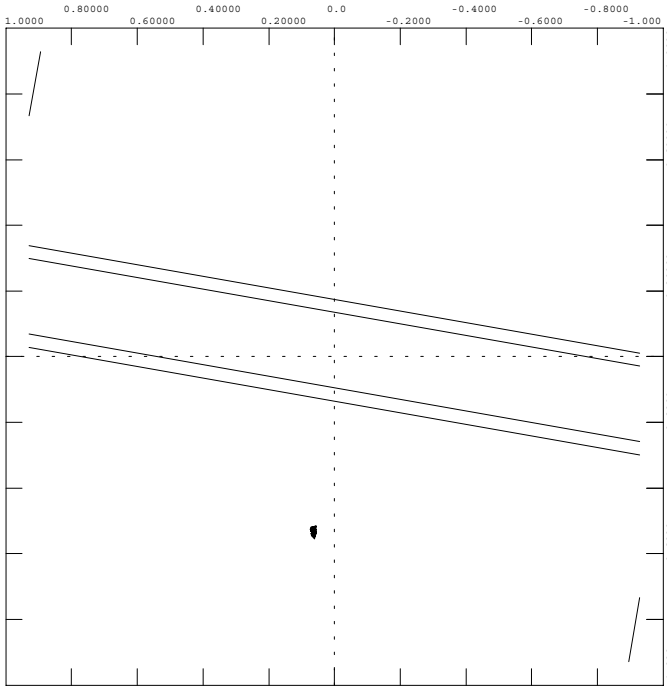


WED, AUG 18 2004 14:08
FORBES DC RED DCAR (679)
CHNL# 968: [DCAR-G]

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 816: [X-DRY4-LET4]

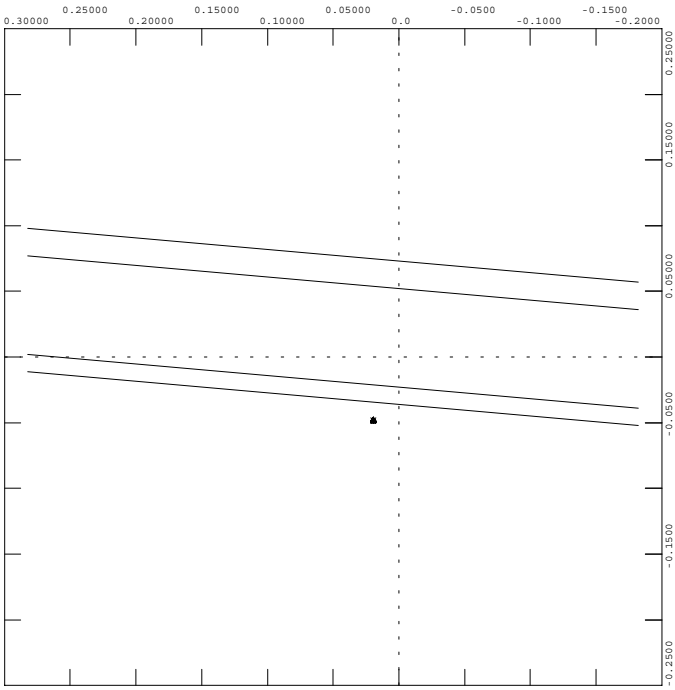


WED, AUG 18 2004 14:08
L20D AT DRAYTON (506)
CHNL# 815: [R-752 3458 1]

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 824: [X-FRB2-ROS2]

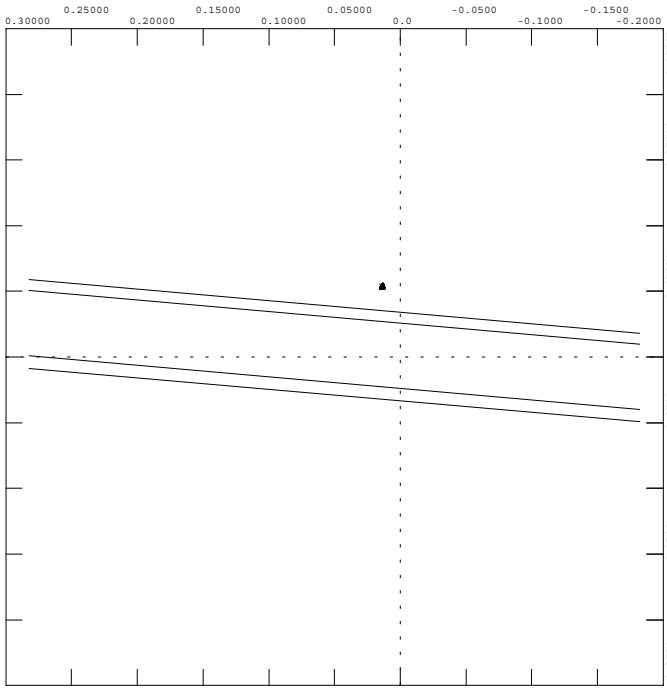


WED, AUG 18 2004 14:08
D602F-FORBES-EMRG (778)
CHNL# 823: [R-1307 1678]

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 856: [X-DSY2-ROS2]

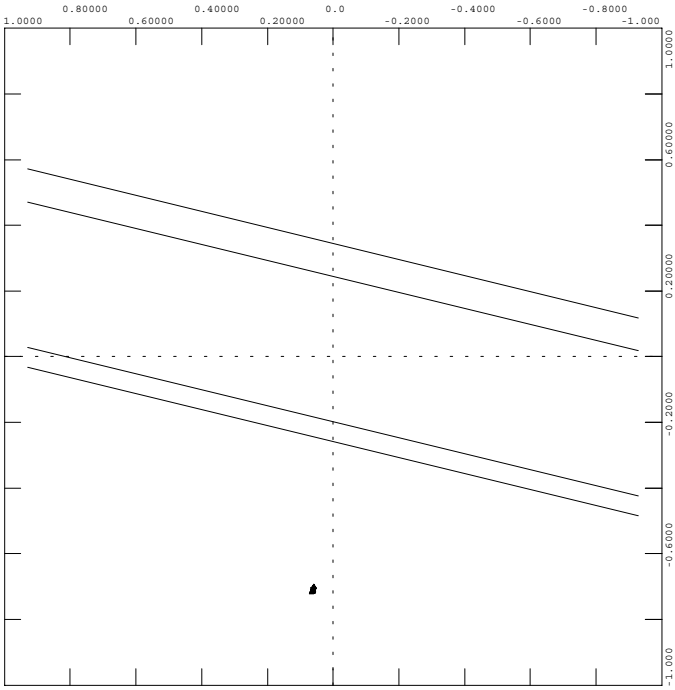


WED, AUG 18 2004 14:08
D602F-DORSEY (606)
CHNL# 855: [R-3465 1677]

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

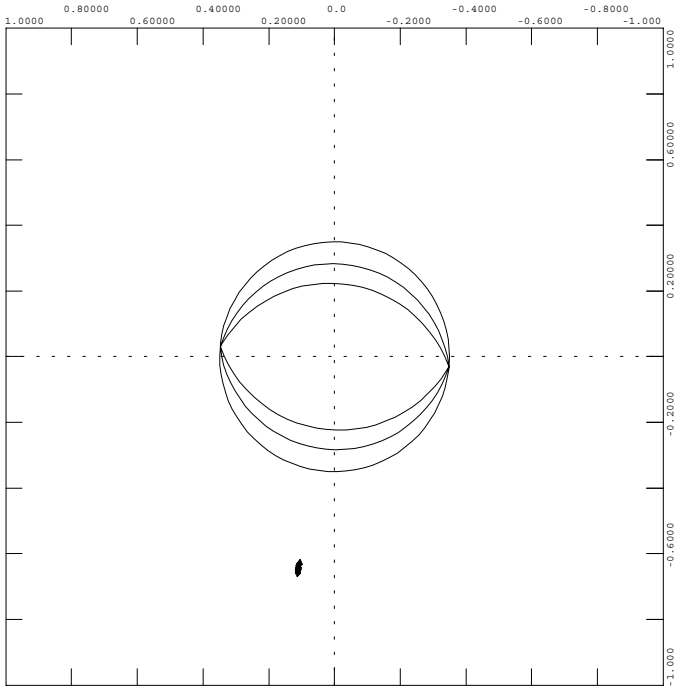
RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 822: [X-MRV4-RCH4]



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

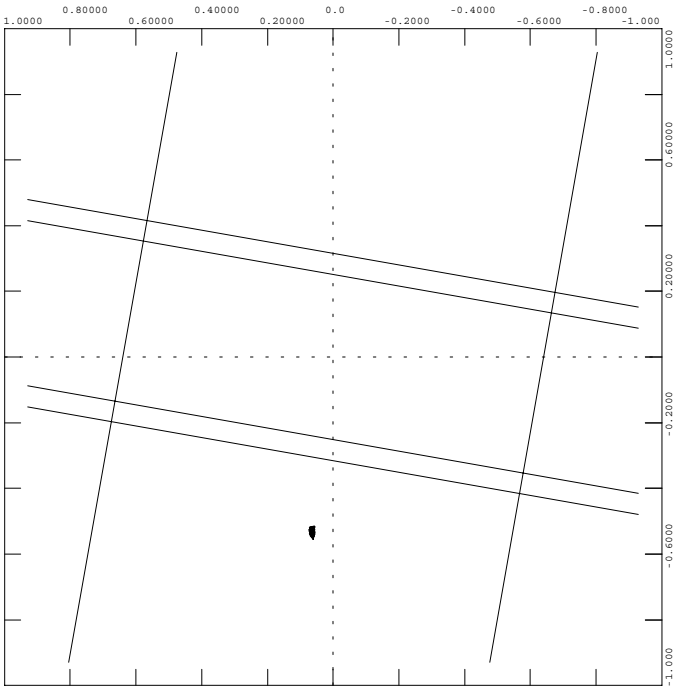
RELAY: SLLP1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 814: [X-TGA4-BD 4]



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

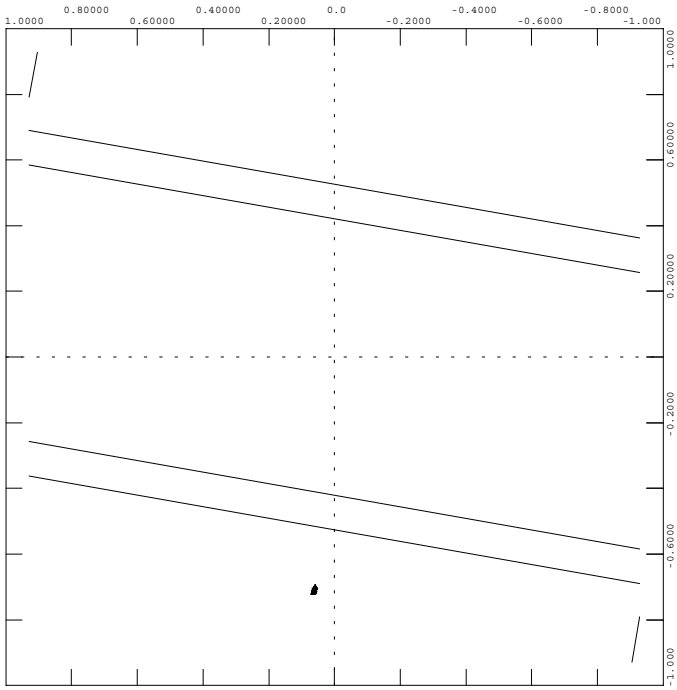
RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 816: [X-DRY4-LET4]



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

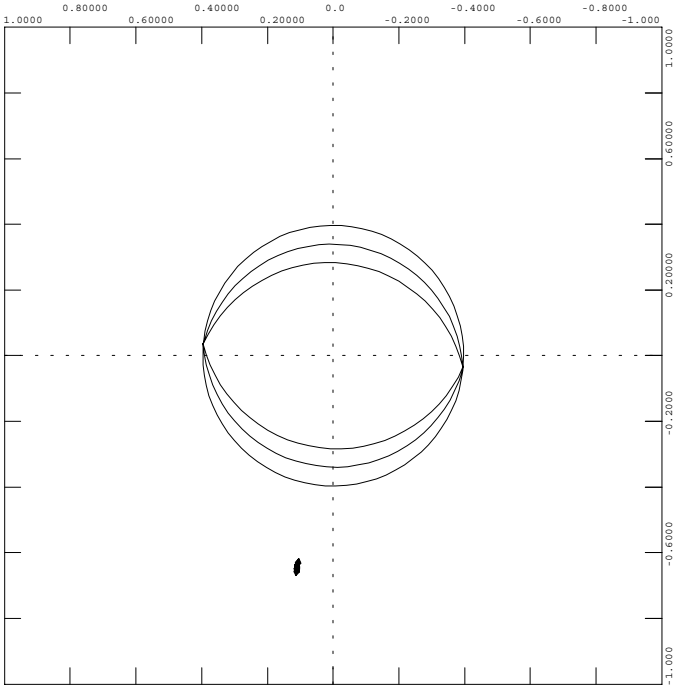
RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 822: [X-MRV4-RCH4]



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

RELAY: SLLP1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 814: [X-TGA4-BD 4]

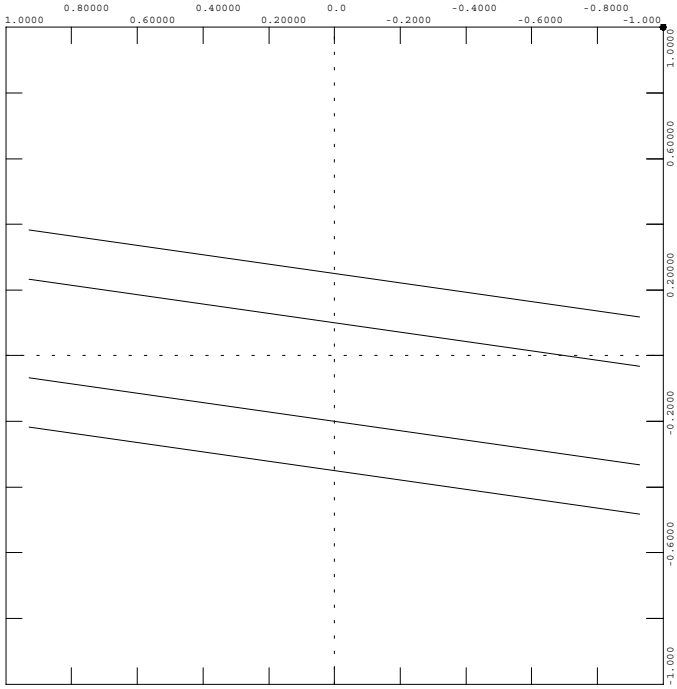


WED, AUG 18 2004 14:08
TIOGA-B.DAM-EMRG (267)

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 986: [X-G82R]

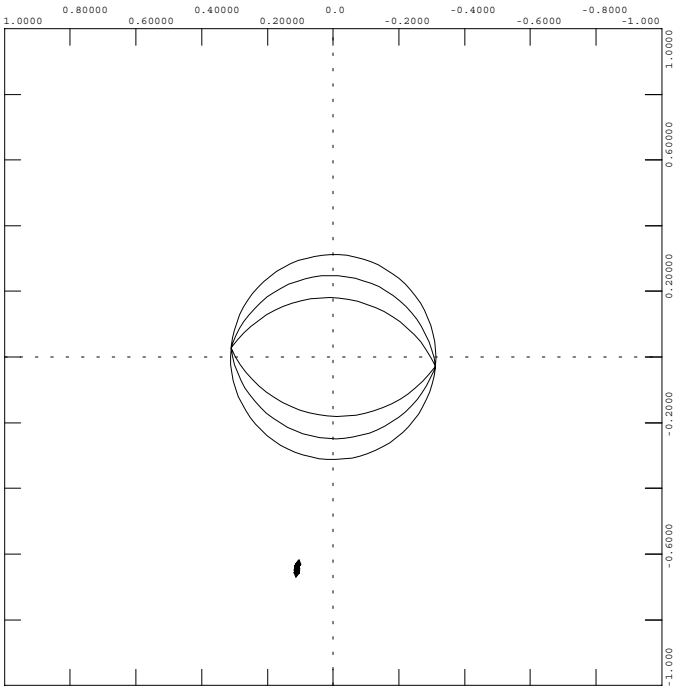


WED, AUG 18 2004 14:08
G82R (780)

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

RELAY: SLLP1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 814: [X-TGA4-BD 4]

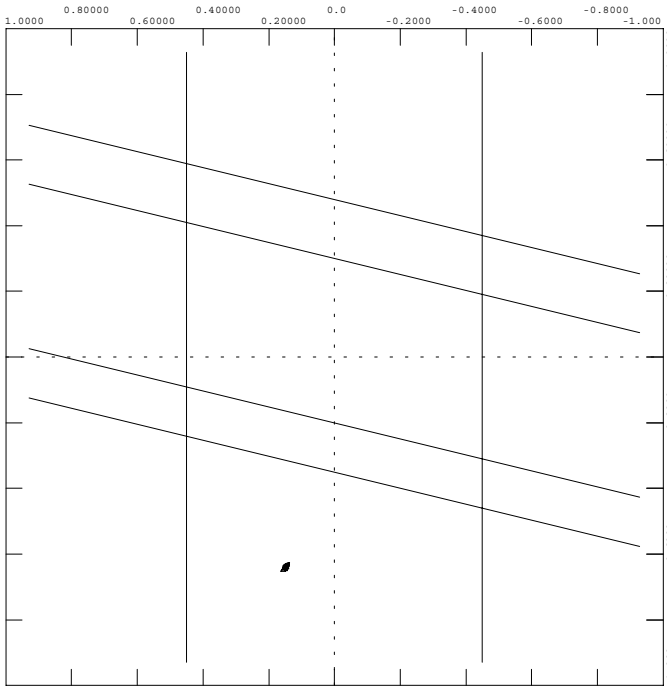


WED, AUG 18 2004 14:08
TIOGA-B.DAM-NORTH (268)

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE

FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

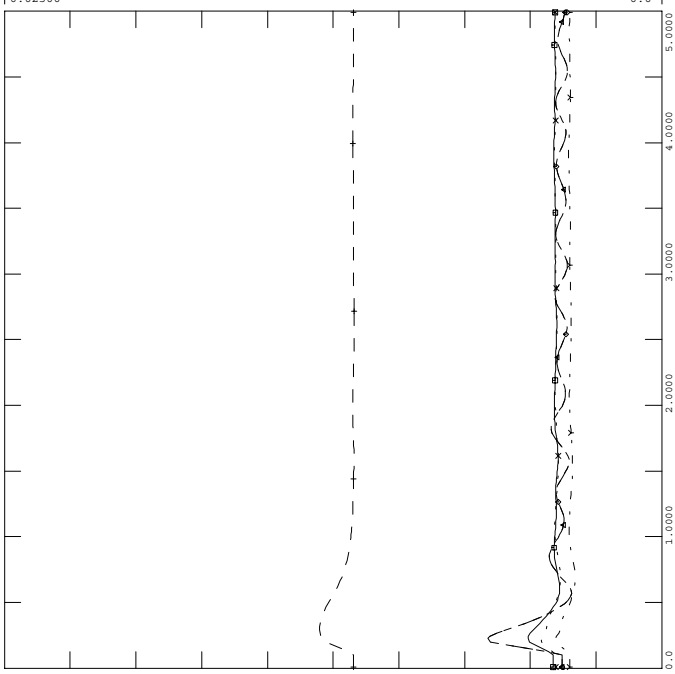
RELAY: SLNOS1
TSTART: 0.0 TSTOP: 5.0 TIC INCREMENT: 0.25
CHNL# 848: [X-INT.F-FTF]



WED, AUG 18 2004 14:08
MP-OH I.FALLS (779)

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

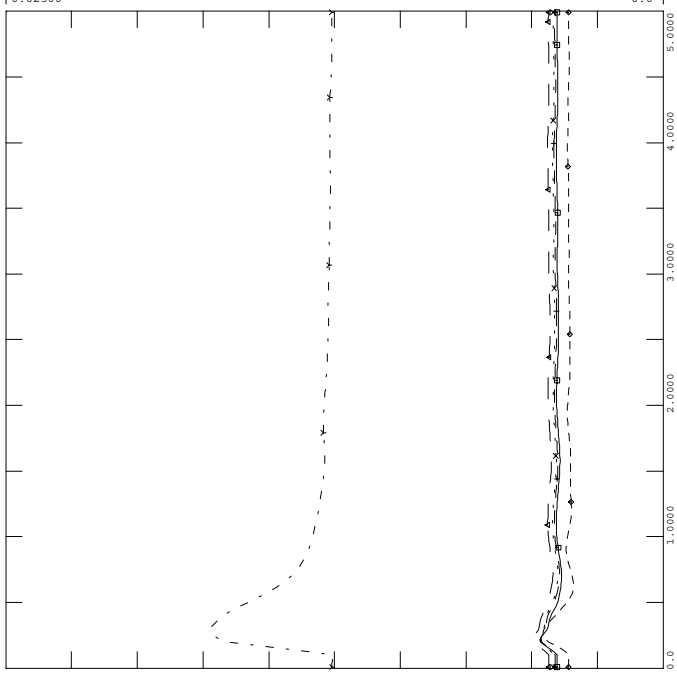
CHNL# 1047: [SPD 60708 [BUFFRIDG34.500] [2]]
CHNL# 1046: [SPD 60708 [BUFFRIDG34.500] [1]]
CHNL# 1045: [SPD 34968 [G262 GEN0.6000] [1]]
CHNL# 1044: [SPD 34917 [G301GEN20.6900] [1]]
CHNL# 1043: [SPD 34916 [G301GEN10.6900] [1]]
CHNL# 1042: [SPD 34902 [G253 0.6000] [1]]



WED, AUG 18 2004 14:08
SPD PREGROUP2 GEN

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

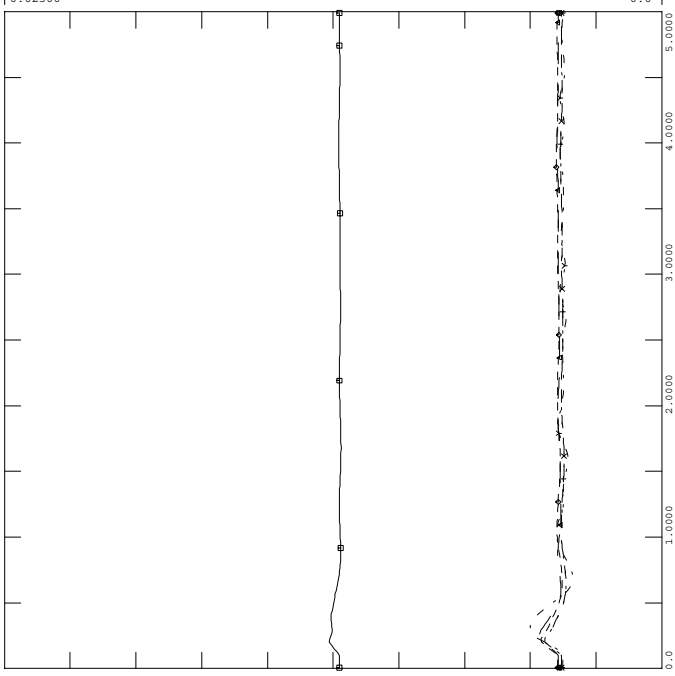
CHNL# 1059: [SPD 63896 [G298GEN 0.6000] [1]]
CHNL# 1058: [SPD 62710 [CHANDLR869.000] [2]]
CHNL# 1057: [SPD 62710 [CHANDLR869.000] [1]]
CHNL# 1056: [SPD 62371 [W LKFLTP69.000] [1]]
CHNL# 1055: [SPD 61190 [WOODSTK869.000] [1]]
CHNL# 1054: [SPD 60904 [G185 0.6000] [1]]



WED, AUG 18 2004 14:08
SPD PREGROUP2 GEN

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

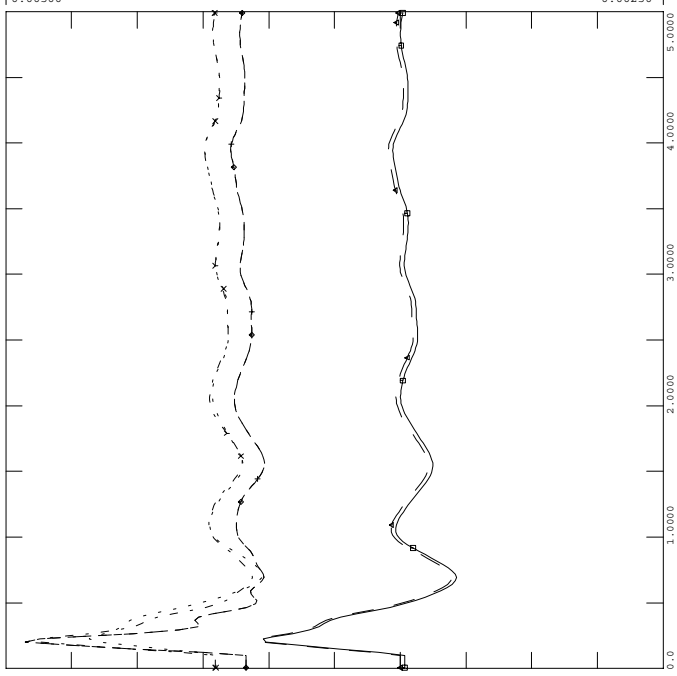
CHNL# 1041: [SPD 34282 [WILMONT924.000] [1]]
CHNL# 1040: [SPD 6700 [G176S 0.6900] [1]]
CHNL# 1039: [SPD 6698 [G176N 0.6900] [1]]
CHNL# 1038: [SPD 6654 [YANKGEN 34.500] [1]]
CHNL# 1037: [SPD 6014 [G263 0.6900] [1]]
CHNL# 1036: [SPD 6005 [G241 GEN0.6000] [1]]



WED, AUG 18 2004 14:08
SPD PREGROUP2 GEN

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

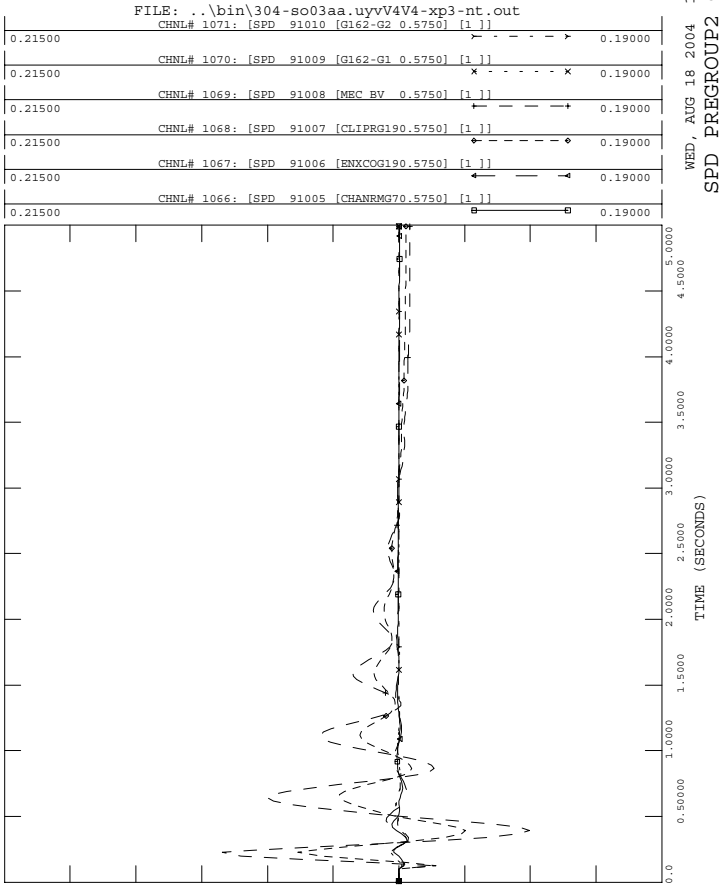
CHNL# 1053: [SPD 60860 [PIPESTN869.000] [1]]
CHNL# 1052: [SPD 60858 [HADLEY 869.000] [1]]
CHNL# 1051: [SPD 60715 [CHANRMB934.500] [5]]
CHNL# 1050: [SPD 60715 [CHANRMB934.500] [1]]
CHNL# 1049: [SPD 60708 [BUFFRIDG34.500] [5]]
CHNL# 1048: [SPD 60708 [BUFFRIDG34.500] [4]]



WED, AUG 18 2004 14:08
SPD PREGROUP2 GEN

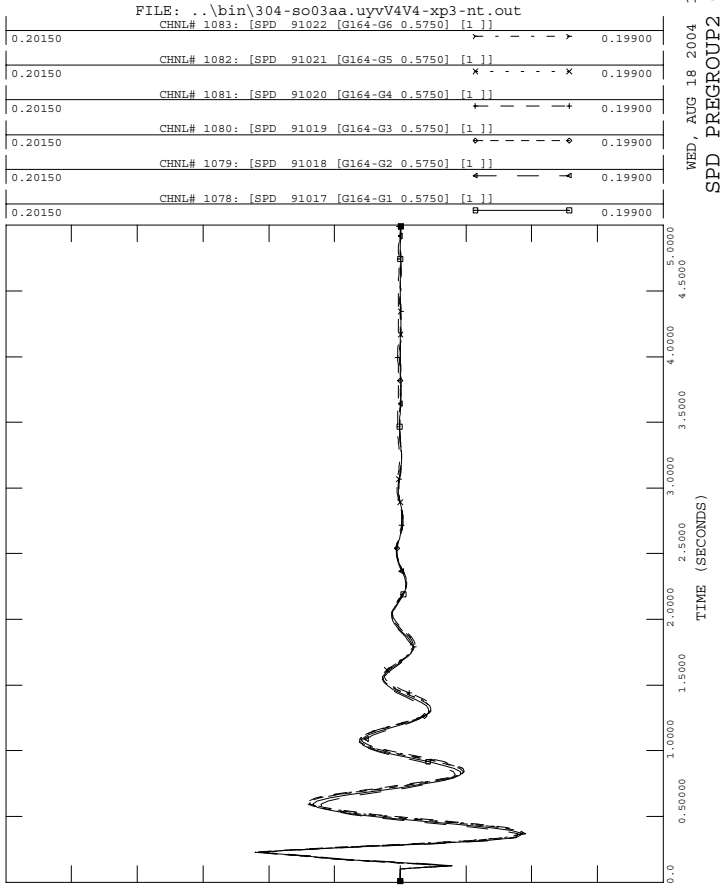
304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

WED, AUG 18 2004 14:08
SPD PREGROUP2 GEN



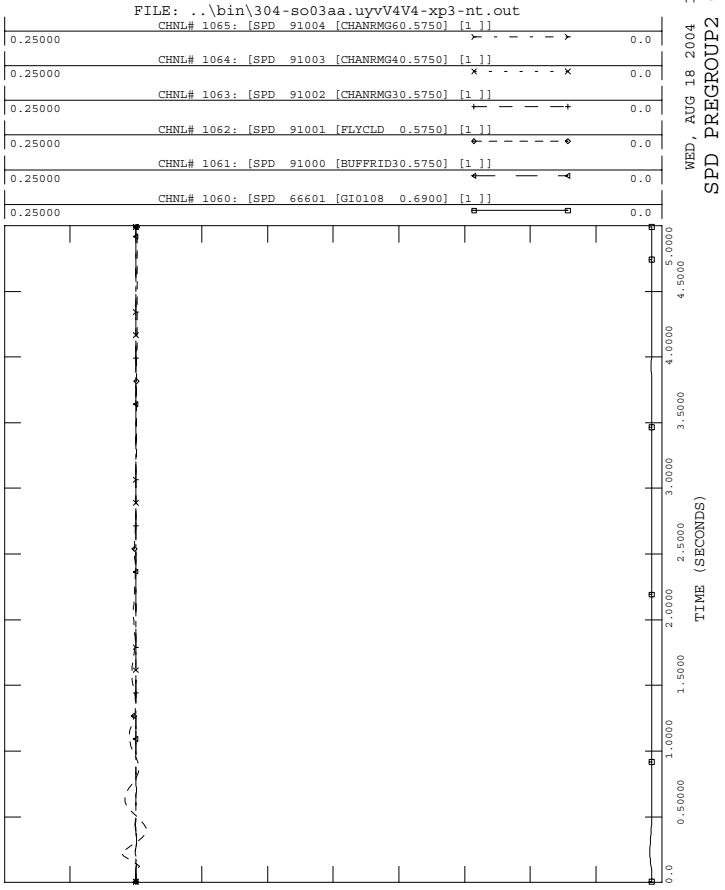
304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

WED, AUG 18 2004 14:08
SPD PREGROUP2 GEN



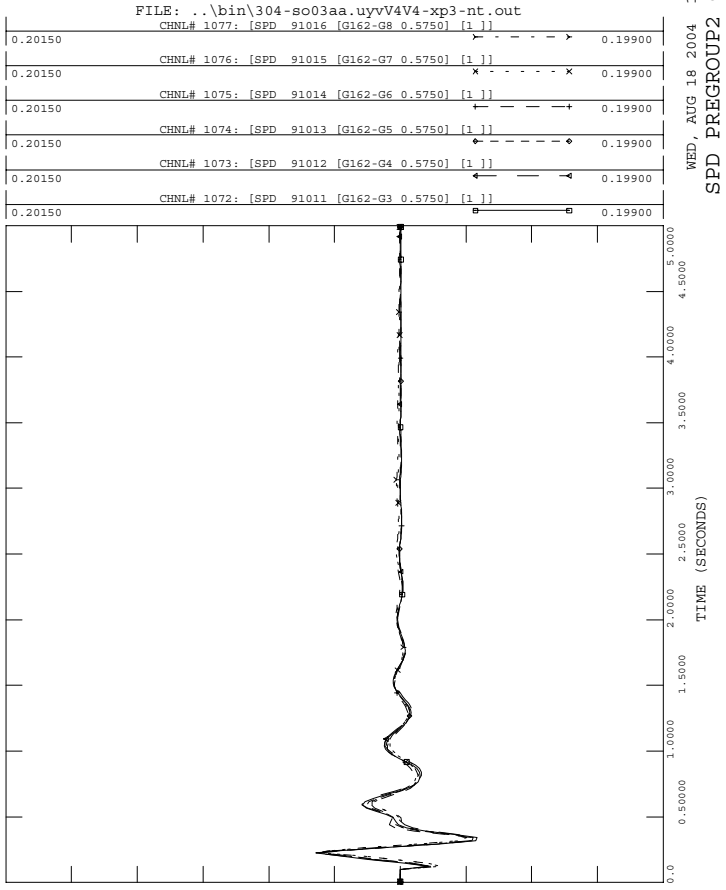
304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

WED, AUG 18 2004 14:08
SPD PREGROUP2 GEN

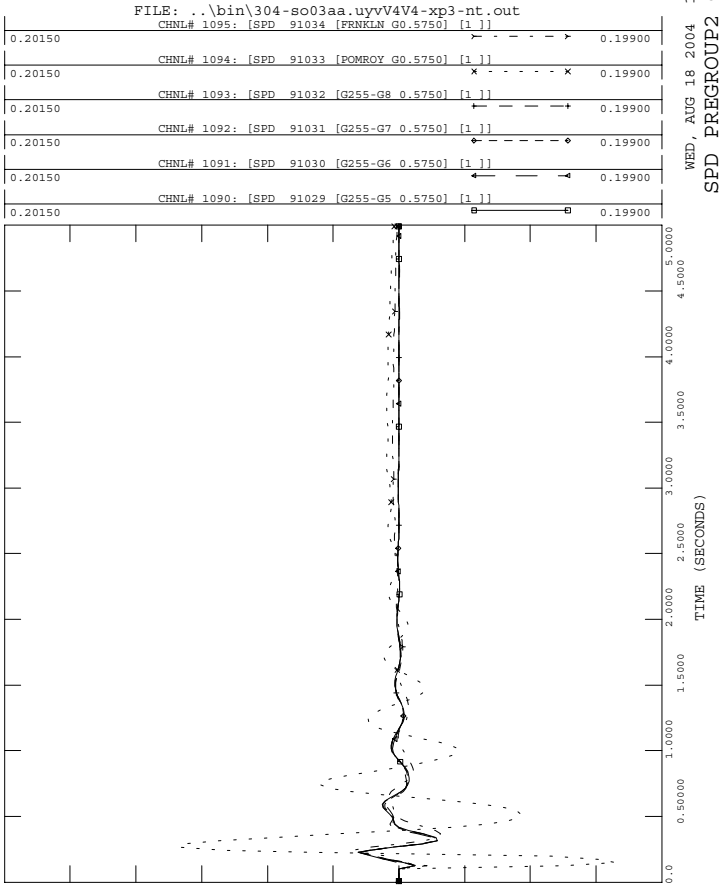


304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

WED, AUG 18 2004 14:08
SPD PREGROUP2 GEN

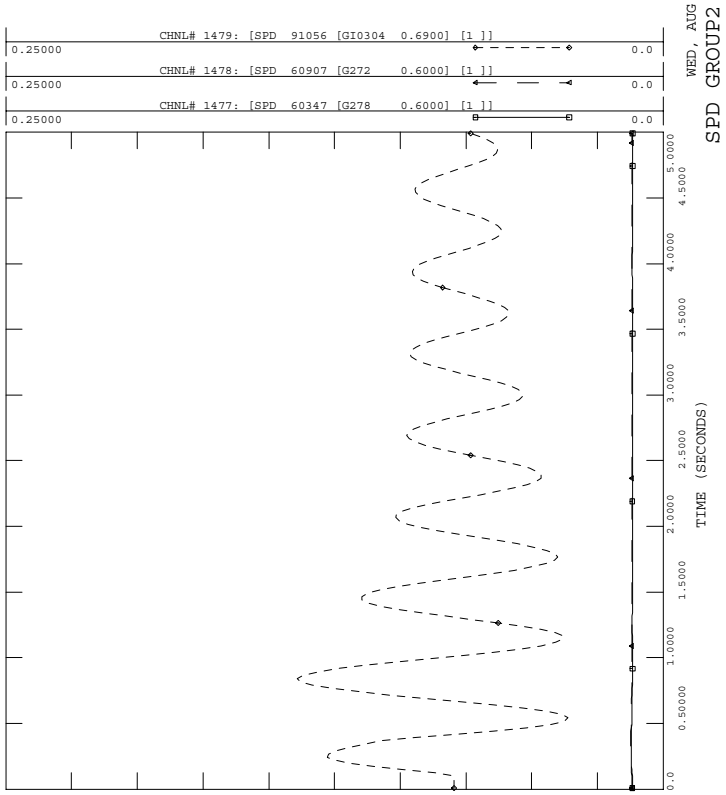


304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out



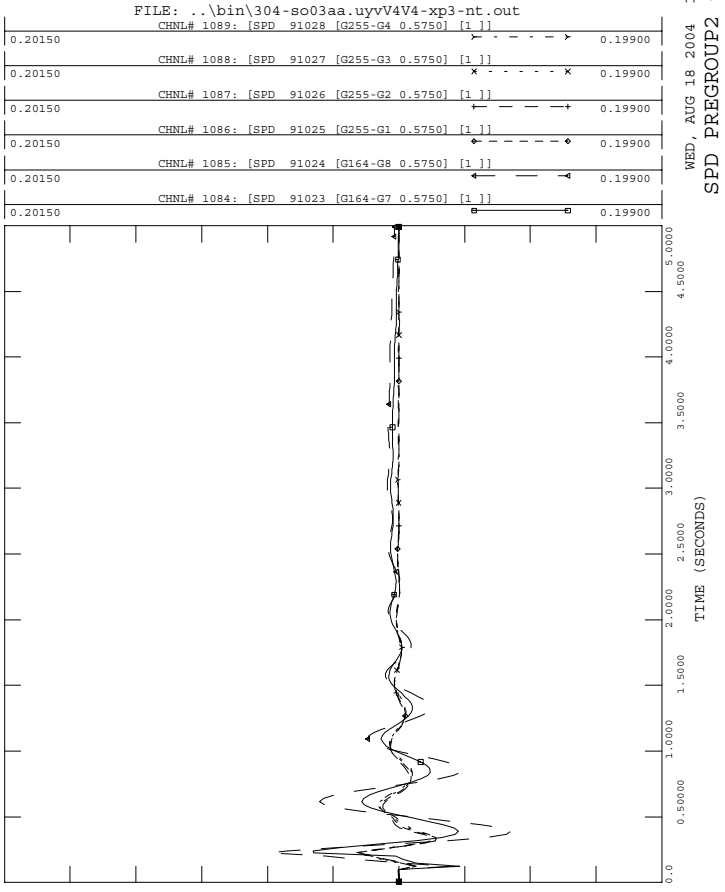
WED, AUG 18 2004 14:08
SPD PREGROUP2 GEN

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out



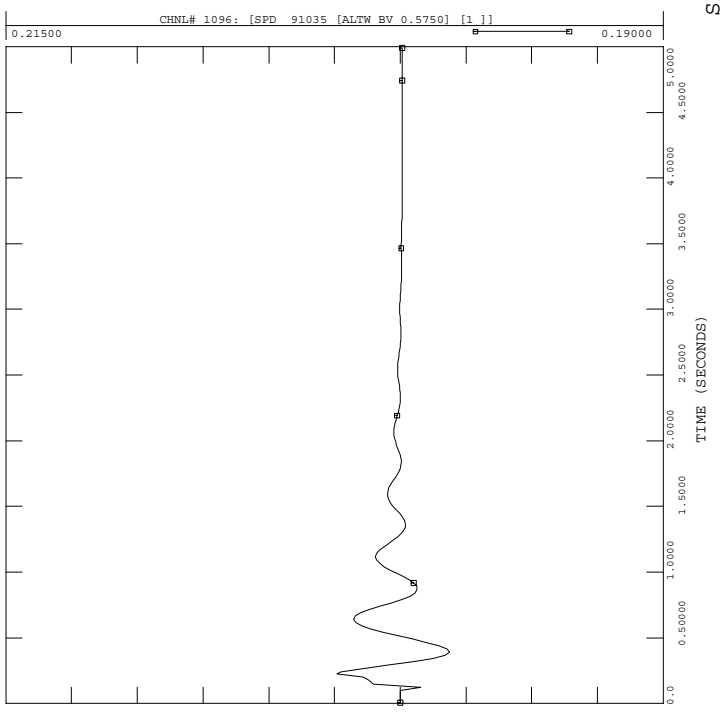
WED, AUG 18 2004 14:08
SPD GROUP2 INDUC GEN

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

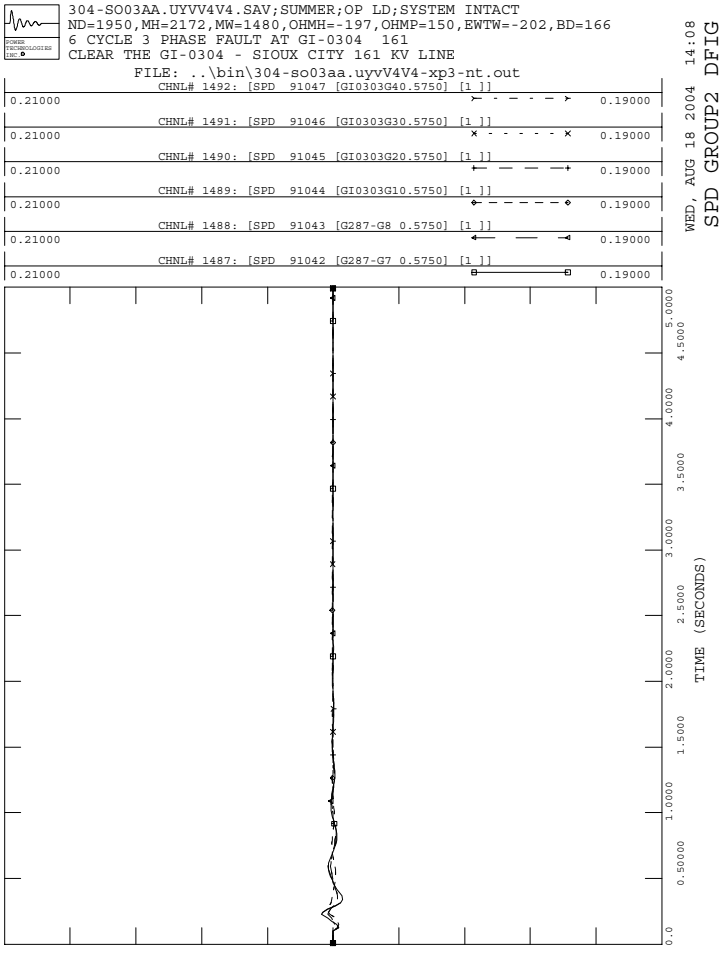


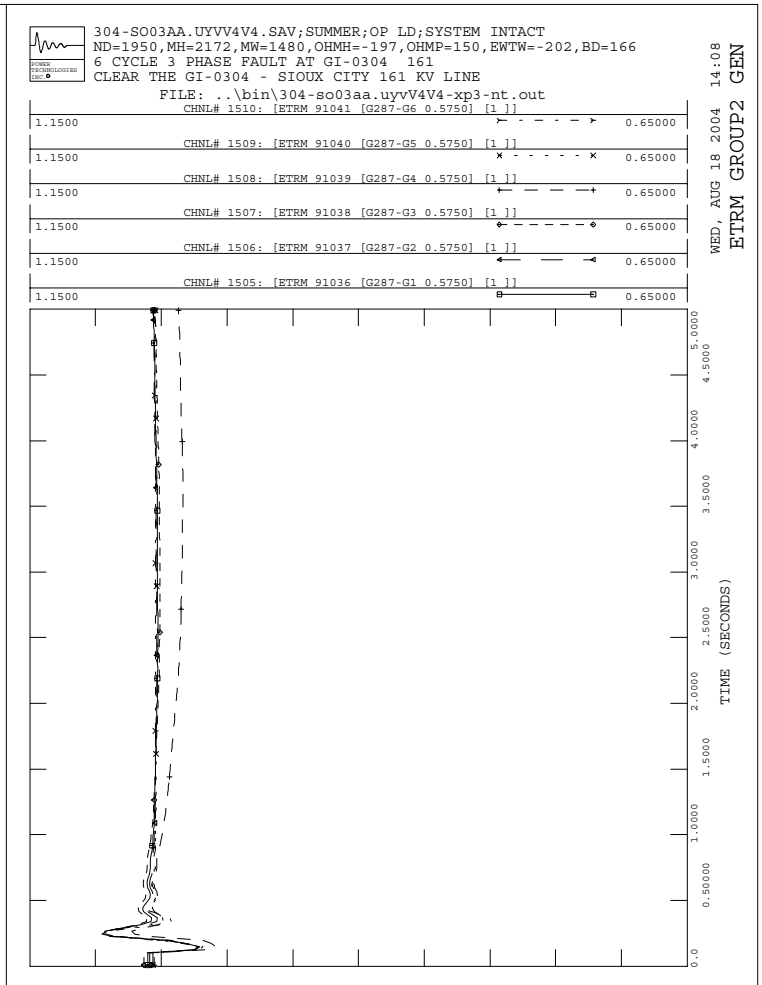
WED, AUG 18 2004 14:08
SPD PREGROUP2 GEN

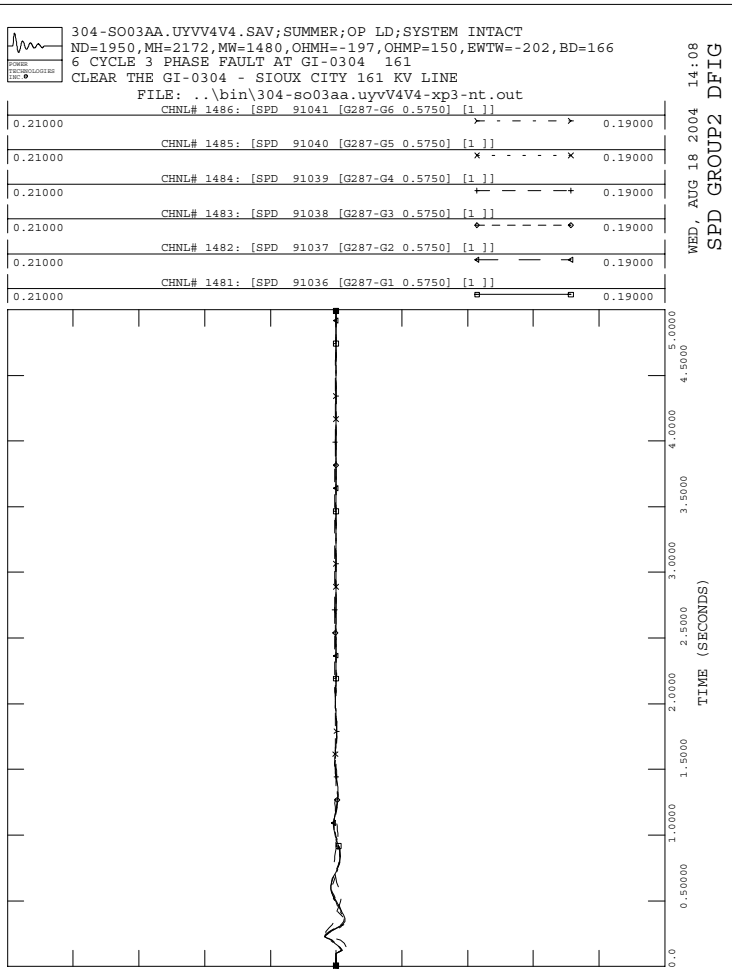
304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

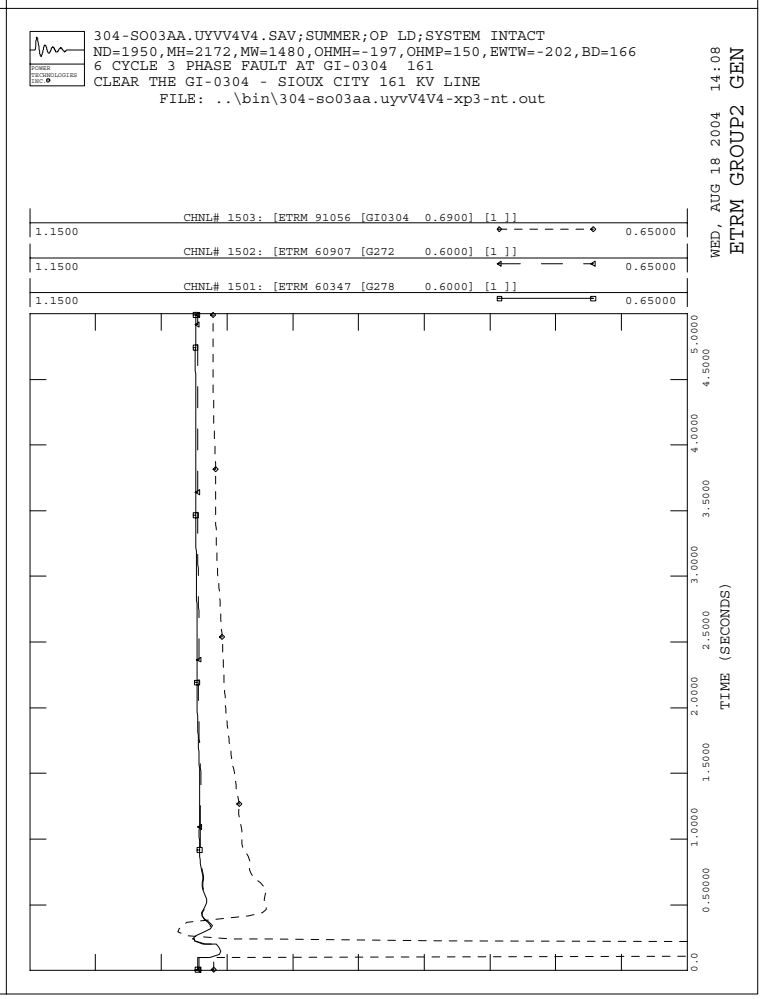


WED, AUG 18 2004 14:08
SPD PREGROUP2 GEN


304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out
CHNL# 1492: [SPD 91047 [GI0303G40.5750] [1]]
CHNL# 1491: [SPD 91046 [GI0303G30.5750] [1]]
CHNL# 1490: [SPD 91045 [GI0303G20.5750] [1]]
CHNL# 1489: [SPD 91044 [GI0303G10.5750] [1]]
CHNL# 1488: [SPD 91043 [G287-G8 0.5750] [1]]
CHNL# 1487: [SPD 91042 [G287-G7 0.5750] [1]]
0.21000
0.19000
WED, AUG 18 2004 14:08
SPD GROUP2 DFIG
TIME (SECONDS)

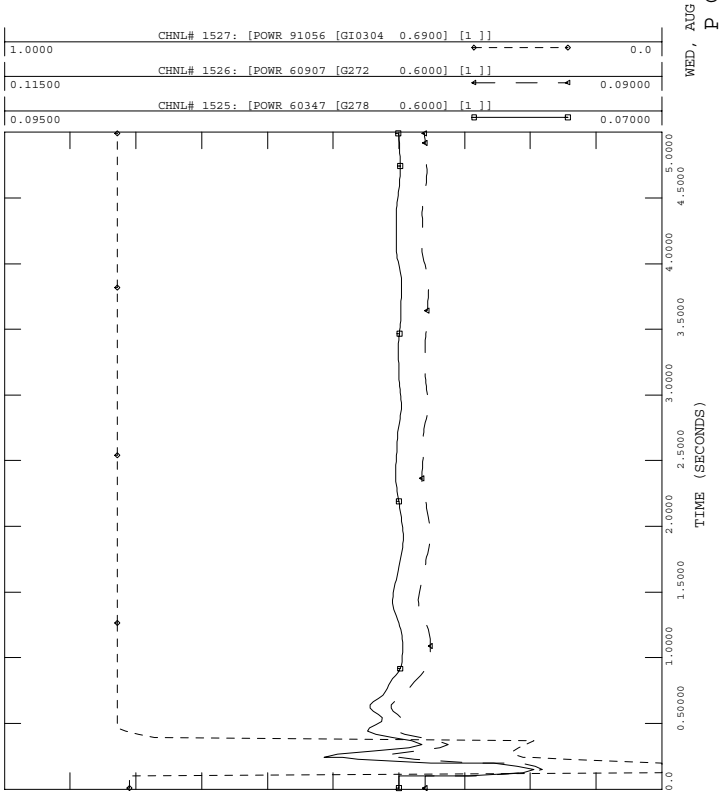

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out
CHNL# 1510: [ETRM 91041 [G287-G6 0.5750] [1]]
CHNL# 1509: [ETRM 91040 [G287-G5 0.5750] [1]]
CHNL# 1508: [ETRM 91039 [G287-G4 0.5750] [1]]
CHNL# 1507: [ETRM 91038 [G287-G3 0.5750] [1]]
CHNL# 1506: [ETRM 91037 [G287-G2 0.5750] [1]]
CHNL# 1505: [ETRM 91036 [G287-G1 0.5750] [1]]
1.1500
0.65000
WED, AUG 18 2004 14:08
ETRM GROUP2 GEN
TIME (SECONDS)


304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out
CHNL# 1486: [SPD 91041 [G287-G6 0.5750] [1]]
CHNL# 1485: [SPD 91040 [G287-G5 0.5750] [1]]
CHNL# 1484: [SPD 91039 [G287-G4 0.5750] [1]]
CHNL# 1483: [SPD 91038 [G287-G3 0.5750] [1]]
CHNL# 1482: [SPD 91037 [G287-G2 0.5750] [1]]
CHNL# 1481: [SPD 91036 [G287-G1 0.5750] [1]]
0.21000
0.19000
WED, AUG 18 2004 14:08
SPD GROUP2 DFIG
TIME (SECONDS)


304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out
CHNL# 1503: [ETRM 91056 [GI0304 0.6900] [1]]
CHNL# 1502: [ETRM 60907 [G272 0.6000] [1]]
CHNL# 1501: [ETRM 60347 [G278 0.6000] [1]]
1.1500
0.65000
WED, AUG 18 2004 14:08
ETRM GROUP2 GEN
TIME (SECONDS)

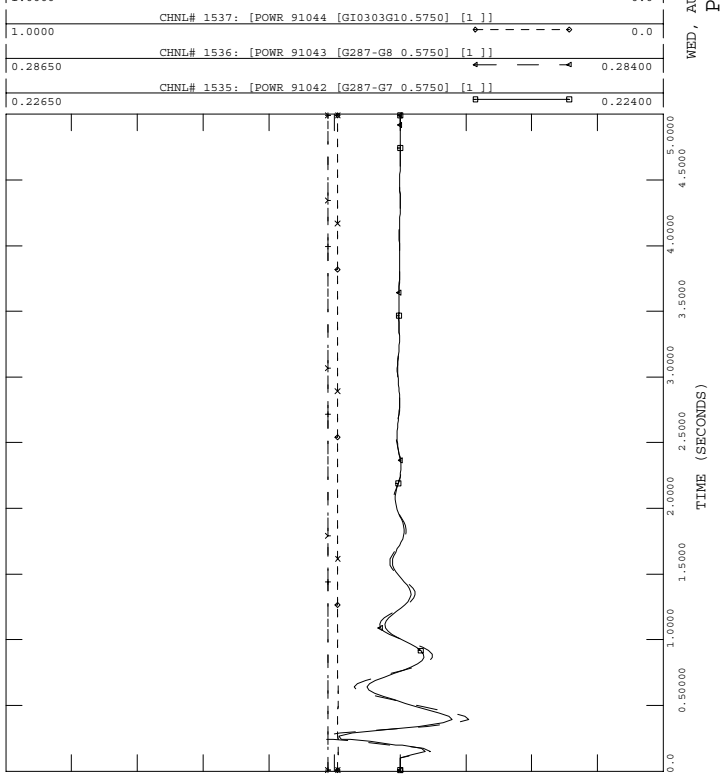
304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

WED, AUG 18 2004 14:08
P GROUP2 GEN



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

WED, AUG 18 2004 14:08
P GROUP2 GEN



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
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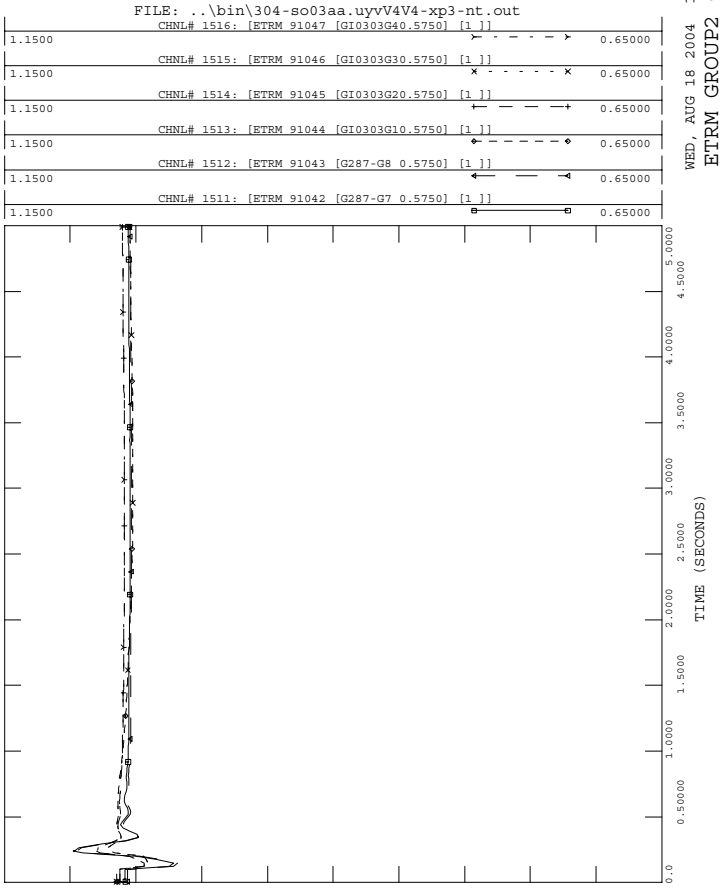
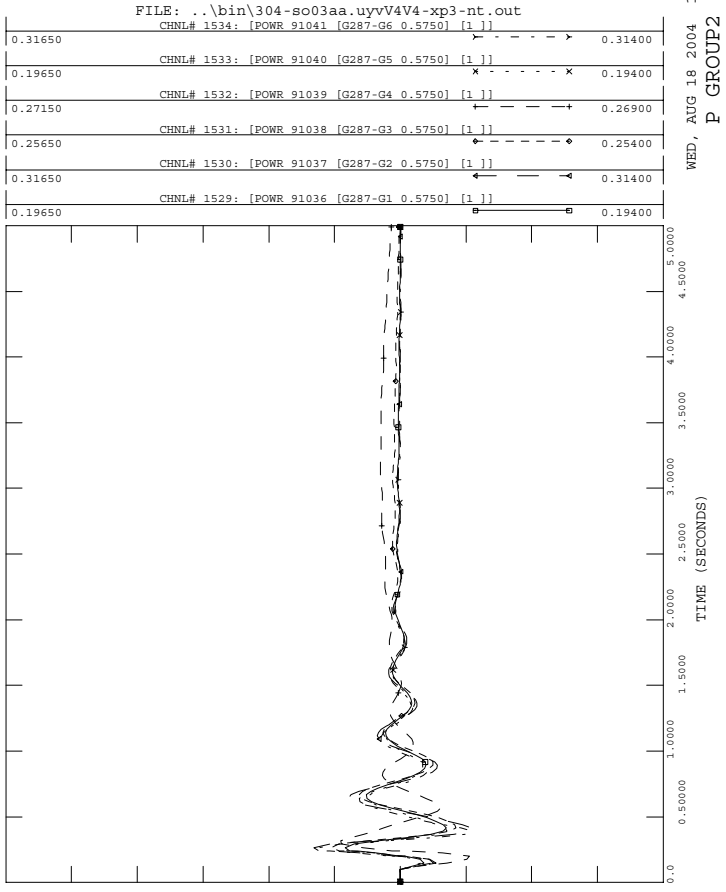
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

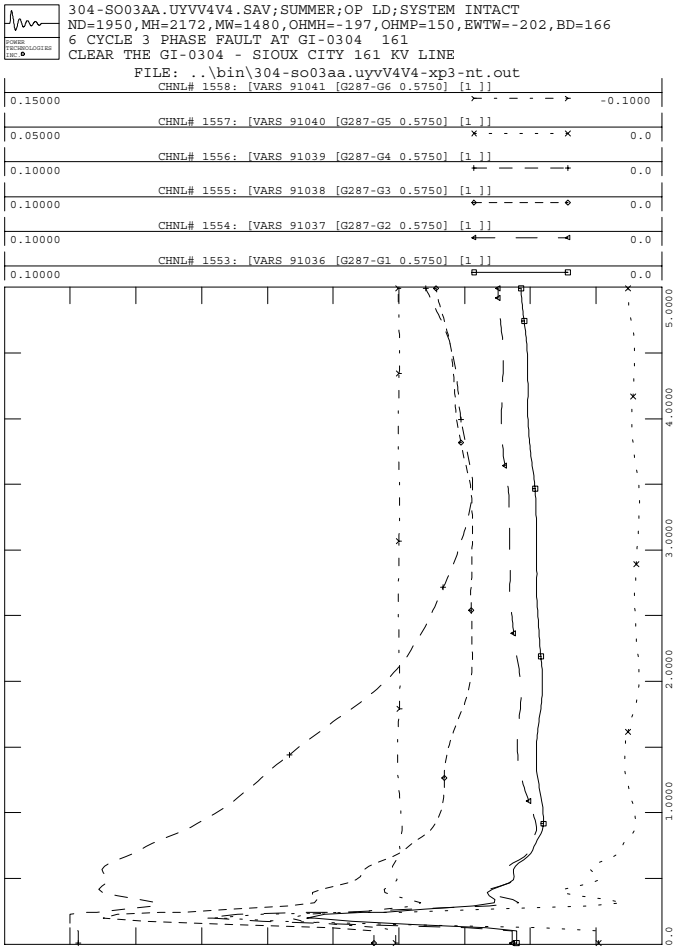
WED, AUG 18 2004 14:08
ETRM GROUP2 GEN

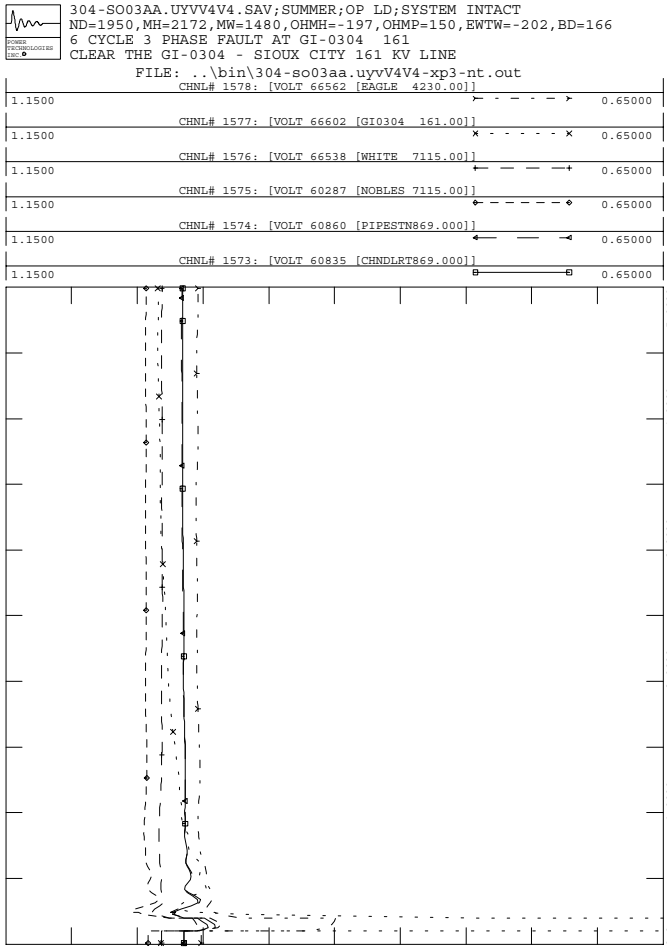


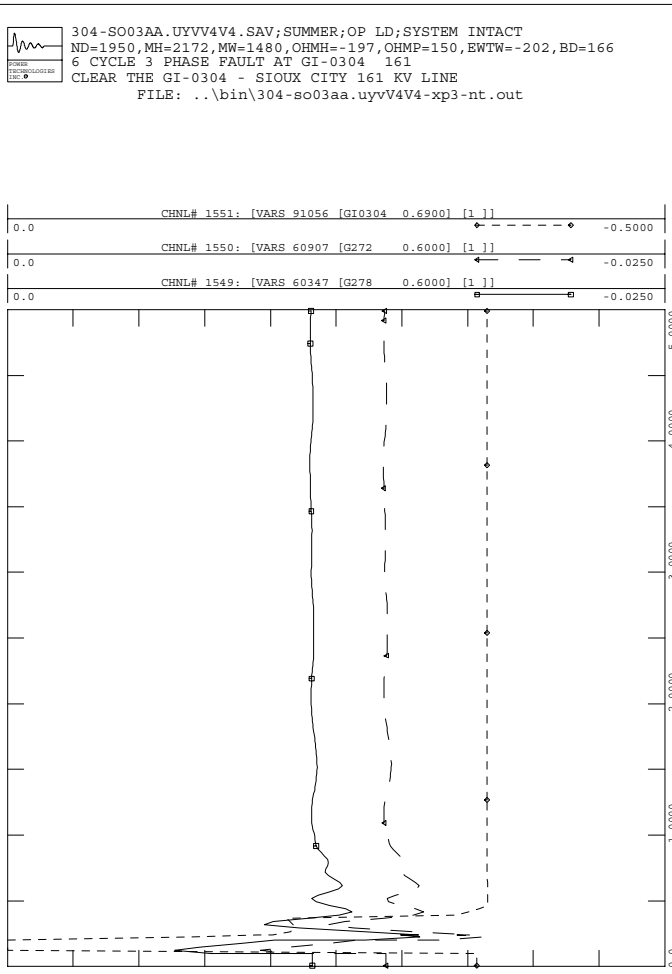
304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

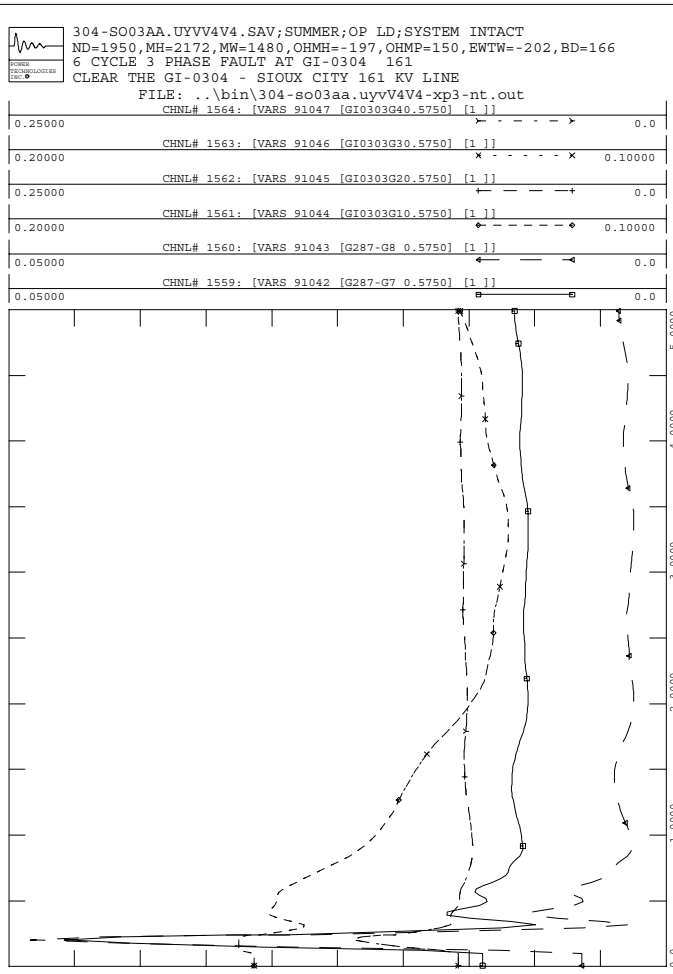
WED, AUG 18 2004 14:08
P GROUP2 GEN

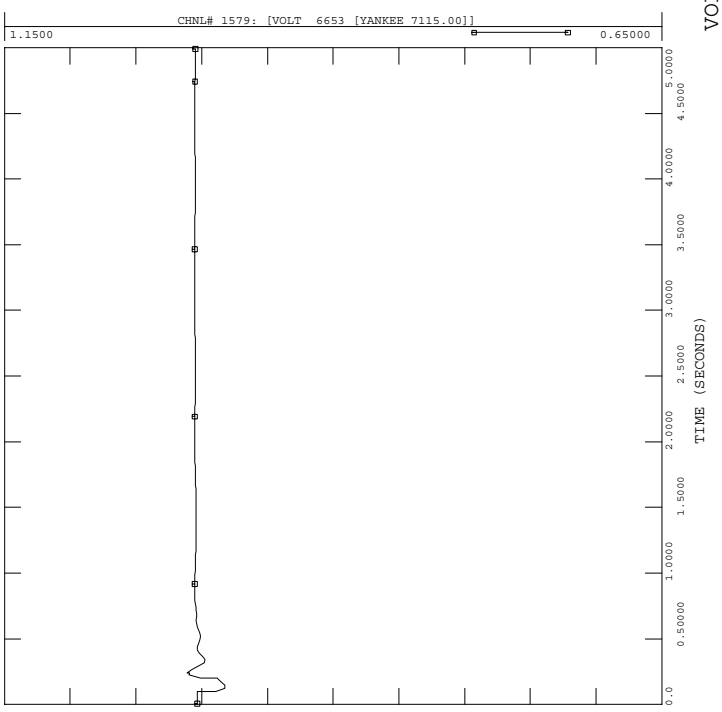



304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out
CHNL# 1558: [VARS 91041 [G287-G6 0.5750] [1]]
CHNL# 1557: [VARS 91040 [G287-G5 0.5750] [1]]
CHNL# 1556: [VARS 91039 [G287-G4 0.5750] [1]]
CHNL# 1555: [VARS 91038 [G287-G3 0.5750] [1]]
CHNL# 1554: [VARS 91037 [G287-G2 0.5750] [1]]
CHNL# 1553: [VARS 91036 [G287-G1 0.5750] [1]]
WED, AUG 18 2004 14:08
Q GROUP2 GEN
TIME (SECONDS)


304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out
CHNL# 1578: [VOLT 66562 [EAGLE 4230.00]]
CHNL# 1577: [VOLT 66602 [GI0304 161.00]]
CHNL# 1576: [VOLT 66538 [WHITE 7115.00]]
CHNL# 1575: [VOLT 60287 [NOBLES 7115.00]]
CHNL# 1574: [VOLT 60860 [PIPESTN869.000]]
CHNL# 1573: [VOLT 60835 [CHNDLRT869.000]]
WED, AUG 18 2004 14:08
VOLT GROUP2 INT PT
TIME (SECONDS)


304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out
CHNL# 1551: [VARS 91056 [GI0304 0.6900] [1]]
CHNL# 1550: [VARS 60907 [G272 0.6000] [1]]
CHNL# 1549: [VARS 60347 [G278 0.6000] [1]]
WED, AUG 18 2004 14:08
Q GROUP2 GEN
TIME (SECONDS)


304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out
CHNL# 1564: [VARS 91047 [GI0303G40.5750] [1]]
CHNL# 1563: [VARS 91046 [GI0303G30.5750] [1]]
CHNL# 1562: [VARS 91045 [GI0303G20.5750] [1]]
CHNL# 1561: [VARS 91044 [GI0303G10.5750] [1]]
CHNL# 1560: [VARS 91043 [G287-G8 0.5750] [1]]
CHNL# 1559: [VARS 91042 [G287-G7 0.5750] [1]]
WED, AUG 18 2004 14:08
Q GROUP2 GEN
TIME (SECONDS)

304-SO03AA.UYVV4V4.SAV;SUMMER;OP LD;SYSTEM INTACT
ND=1950,MH=2172,MW=1480,OHMH=-197,OHMP=150,EWTW=-202,BD=166
6 CYCLE 3 PHASE FAULT AT GI-0304 161
CLEAR THE GI-0304 - SIOUX CITY 161 KV LINE
FILE: ..\bin\304-so03aa.uyvV4V4-xp3-nt.out

WED, AUG 18 2004 14:08
VOLT GROUP2 INT PT