Western Area Power Administration
Sierra Nevada Region

Starting Forecast Month: **June 2012**

Twelve-Month Forecast of CVP Generation and Base Resource

June 2012 Through May 2013

Values at Load Center (Tracy Substation)

Exceedence Level: **90% (Dry)**

Month	CVP Generation		Project Use		First Preference		Reg & Res	Purchases and Exchanges						Base Resource		
	CVP Maximum Capability (MW)	CVP Energy Generation (GWh)	Peak Project Use Demand (MW)	Project Use (PU) Load Energy (GWh)	First Pref. (FP) Peak Demand (MW)	First Pref. (FP) Load Energy (GWh)	Estimated Ancillary Services Capacity (MW)	PU Forward Purchase Off-Peak Energy (GWh)	PU & FP Capacity Purchase Reqmts. (MW)	PU & FP Energy Purchase Reqmts. (GWh)	CVP Corp Bank Energy for PU and FP (GWh)	Bank Return Energy to CVP Corp (GWh)	Ancilliary Services Purchase Reqmt. (MW)	Project Capacity Available for BR (MW)	Energy Available for Base Resource (GWh)	Capacity Factor (%)
Column	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Jun-2012	1,825.0	720.0	120.0	80.0	23.9	12.9	182.0	0.0	0.0	0.0	0.0	0.0	0.0	1,499.1	627.1	58.1
Jul-2012	1,715.0	720.0	230.0	150.0	27.9	15.2	182.0	0.0	0.0	0.0	0.0	0.0	0.0	1,275.1	554.8	58.5
Aug-2012	1,595.0	530.0	220.0	145.0	26.6	14.8	182.0	0.0	0.0	0.0	0.0	0.0	0.0	1,166.4	370.2	42.7
Sep-2012	1,270.0	370.0	175.0	120.0	23.2	13.2	182.0	0.0	0.0	0.0	0.0	0.0	0.0	889.8	236.8	37.0
Oct-2012	1,035.0	290.0	150.0	120.0	23.8	13.8	182.0	6.2	0.0	0.0	0.0	0.0	0.0	679.2	162.4	32.1
Nov-2012	930.0	190.0	145.0	125.0	26.4	15.6	182.0	6.0	0.0	0.0	0.0	0.0	0.0	576.6	55.4	13.3
Dec-2012	1,155.0	160.0	140.0	140.0	26.6	16.0	182.0	6.2	0.0	0.0	0.0	0.0	0.0	806.4	10.2	1.7
Jan-2013	1,010.0	140.0	105.0	115.0	26.0	16.0	182.0	6.2	0.0	0.0	0.0	0.0	0.0	697.0	15.2	2.9
Feb-2013	1,295.0	130.0	60.0	20.0	26.7	15.0	182.0	5.6	0.0	0.0	0.0	0.0	0.0	1,026.3	100.6	14.6
Mar-2013	1,325.0	240.0	45.0	30.0	24.7	14.7	182.0	6.2	0.0	0.0	0.0	0.0	0.0	1,073.3	201.5	25.2
Apr-2013	1,405.0	310.0	70.0	40.0	23.8	13.7	182.0	0.0	0.0	0.0	0.0	0.0	0.0	1,129.2	256.3	31.5
May-2013	1,515.0	590.0	95.0	60.0	21.9	13.9	182.0	0.0	0.0	0.0	0.0	0.0	0.0	1,216.1	516.1	57.0
Total		4,390.0		1,145.0		174.7		36.4		0.0	0.0	0.0			3,106.7	

Exceedence Level **50% (Average)**

Month	CVP Generation		Project Use		First Preference		Reg & Res	Purchases and Exchanges						Base Resource		
	Maximum CVP Capacity (MW)	CVP Energy Generation (GWh)	Peak Project Use Demand (MW)	Project Use (PU) Load Energy (GWh)	First Pref. (FP) Peak Demand (MW)	First Pref. (FP) Load Energy (GWh)	Estimated Ancillary Services Capacity (MW)	PU Forward Purchase Off-Peak Energy (GWh)	PU & FP Capacity Purchase Reqmts. (MW)	PU & FP Energy Purchase Reqmts. (GWh)	CVP Corp Bank Energy for PU and FP (GWh)	Bank Return Energy to CVP Corp (GWh)	Ancilliary Services Purchase Reqmt. (MW)	Project Capacity Available for BR (MW)	Energy Available for Base Resource (GWh)	Capacity Factor (%)
Column	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Jun-2012	1,825.0	690.0	120.0	80.0	23.9	12.9	182.0	0.0	0.0	0.0	0.0	0.0	0.0	1,499.1	597.1	55.3
Jul-2012	1,725.0	690.0	225.0	150.0	27.9	15.2	182.0	0.0	0.0	0.0	0.0	0.0	0.0	1,290.1	524.8	54.7
Aug-2012	1,635.0	500.0	215.0	140.0	26.6	14.8	182.0	0.0	0.0	0.0	0.0	0.0	0.0	1,211.4	345.2	38.3
Sep-2012	1,310.0	400.0	175.0	120.0	23.2	13.2	182.0	0.0	0.0	0.0	0.0	0.0	0.0	929.8	266.8	39.9
Oct-2012	1,065.0	270.0	150.0	135.0	23.8	13.8	182.0	6.2	0.0	0.0	0.0	0.0	0.0	709.2	127.4	24.1
Nov-2012	970.0	210.0	145.0	135.0	26.4	15.6	182.0	6.0	0.0	0.0	0.0	0.0	0.0	616.6	65.4	14.7
Dec-2012	1,210.0	230.0	200.0	155.0	26.6	16.0	182.0	6.2	0.0	0.0	0.0	0.0	0.0	801.4	65.2	10.9
Jan-2013	1,065.0	150.0	105.0	115.0	26.0	16.0	182.0	6.2	0.0	0.0	0.0	0.0	0.0	752.0	25.2	4.5
Feb-2013	1,295.0	280.0	110.0	90.0	26.7	15.0	182.0	5.6	0.0	0.0	0.0	0.0	0.0	976.3	180.6	27.5
Mar-2013	1,310.0	440.0	90.0	65.0	24.7	14.7	182.0	6.2	0.0	0.0	0.0	0.0	0.0	1,013.3	366.5	48.6
Apr-2013	1,485.0	360.0	70.0	40.0	23.8	13.7	182.0	0.0	0.0	0.0	0.0	0.0	0.0	1,209.2	306.3	35.2
May-2013	1,697.0	600.0	95.0	60.0	21.9	13.9	182.0	0.0	0.0	0.0	0.0	0.0	0.0	1,398.1	526.1	50.6
Total		4,820.0		1,285.0		174.7		36.4		0.0	0.0	0.0			3,396.7	

Exceedence Level **10% (Wet)**

Month	CVP Generation		Project Use		First Preference		Reg & Res	Purchases and Exchanges						Base Resource		
	Maximum CVP Capacity (MW)	CVP Energy Generation (GWh)	Peak Project Use Demand (MW)	Project Use (PU) Load Energy (GWh)	First Pref. (FP) Peak Demand (MW)	First Pref. (FP) Load Energy (GWh)	Estimated Ancillary Services Capacity (MW)	PU Forward Purchase Off-Peak Energy (GWh)	PU & FP Capacity Purchase Reqmts. (MW)	PU & FP Energy Purchase Reqmts. (GWh)	CVP Corp Bank Energy for PU and FP (GWh)	Return Energy to CVP Corp (GWh)	Ancilliary Services Purchase Reqmt. (MW)	Project Capacity Available for BR (MW)	Energy Available for Base Resource (GWh)	Capacity Factor (%)
Column	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Jun-2012	1,825.0	730.0	120.0	80.0	23.9	12.9	182.0	0.0	0.0	0.0	0.0	0.0	0.0	1,499.1	637.1	59.0
Jul-2012	1,725.0	730.0	225.0	150.0	27.9	15.2	182.0	0.0	0.0	0.0	0.0	0.0	0.0	1,290.1	564.8	58.8
Aug-2012	1,635.0	560.0	215.0	140.0	26.6	14.8	182.0	0.0	0.0	0.0	0.0	0.0	0.0	1,211.4	405.2	45.0
Sep-2012	1,310.0	440.0	175.0	120.0	23.2	13.2	182.0	0.0	0.0	0.0	0.0	0.0	0.0	929.8	306.8	45.8
Oct-2012	1,065.0	305.0	150.0	135.0	23.8	13.8	182.0	6.2	0.0	0.0	0.0	0.0	0.0	709.2	162.4	30.8
Nov-2012	970.0	265.0	145.0	135.0	26.4	15.6	182.0	6.0	0.0	0.0	0.0	0.0	0.0	616.6	120.4	27.1
Dec-2012	1,210.0	285.0	200.0	155.0	26.6	16.0	182.0	6.2	0.0	0.0	0.0	0.0	0.0	801.4	120.2	20.2
Jan-2013	1,065.0	185.0	105.0	115.0	26.0	16.0	182.0	6.2	0.0	0.0	0.0	0.0	0.0	752.0	60.2	10.8
Feb-2013	1,295.0	350.0	110.0	90.0	26.7	15.0	182.0	5.6	0.0	0.0	0.0	0.0	0.0	976.3	250.6	38.2
Mar-2013	1,310.0	545.0	90.0	65.0	24.7	14.7	182.0	6.2	0.0	0.0	0.0	0.0	0.0	1,013.3	471.5	62.5
Apr-2013	1,485.0	450.0	70.0	40.0	23.8	13.7	182.0	0.0	0.0	0.0	0.0	0.0	0.0	1,209.2	396.3	45.5
May-2013	1,797.0	636.0	120.0	80.0	21.9	13.9	182.0	0.0	0.0	0.0	0.0	0.0	0.0	1,473.1	542.1	49.5
Total		5,481.0		1,305.0		174.7		36.4		0.0	0.0	0.0			4,037.7	

Notes:
1. For the AS (Column G), it was assumed that Western's total operating reserve obligation to be equal to the sum of spinning reserve of 134 MW and regulation of 48 MW on average monthly long term basis.
2. CVP generation and Project Use data for 50% and 90% Exceedence Levels are based on USBR May 2012 50% and 90% Exceedence monthly water forecasts, respectively. May 2013 data for all Exceedences is from Green Book statistics.
3. CVP generation & PU load energy (GWh) for the 10% Exceedence Level based on USBR statistical "High Net" analysis from the 05/2012 50% forecast, and Blue Book values, while CVP Capacity (MW) and PU demand are from the USBR 05/2