

2002 Power Rate and Repayment Study  
 Power and Irrigation Aid Requirements for Existing and Proposed P-S MBP Units  
 (Costs as of September 30, 2001) (1)

Area	Existing Units	Project Acres		Power Requirement		Year Online	Year Aid Required	Amount of Aid (\$1,000)
		Full	Supp.	Capacity (kW)	Energy (1000 kWh)			
7	Ainsworth	34,500				1965		18,444
7	Almena	5,800				1967		5,649
3	Angostura	12,200				1953		14,570
	Belle Fourche	56,709				1991	2038	54,870
7	Bostwick	62,900		735	608	1953		47,019
3	Dickinson	400				1954		365
1	East Bench	21,800	28,000			1965		16,090 (9)
7	Farwell (Loup Basin)	50,100		835	431	1966		2,254 (8)
3	Fort Clark	1,900		485	195	1954		1,280
7	Frenchman-Cambridge	56,500	9,600			1952		53,074
7	Glen Elder Dam & Res.					1970		4,175
3	Glendo		44,600			1958		2,940
3	Gray Goose Unit Power			1,650	722	1990		1,236
2	Hanover Bluff	7,400		2,245	5,881	1957		7,456
3	Heart Butte	6,700		550	159	1952		1,372
1	Helena Valley	16,000				1959		16,038
3	Hiltop Unit Power			1,545	625	1990		1,188
3	Keyhole		5,200			1976		3,055
7	Kirwin	11,400		12	0	1957		10,026
1	Lower Marias	3,200				1979		21,084 (10)
2	Owl Creek		11,300	1,200	3,406	1957		8,640
3	Rapid Valley		8,900			1948		2,062
2	Riverton	64,300	{3}			1925	2020	45,142
7	Sargent	13,400				1957		346 (8)
2	Savage	2,200		500	1,014	1950		704
3	Shadehill	3,000				1976		2,482
1	Toston (Crow Creek)	5,000		2,000	4,668	1955		3,362
7	Webster	8,500		115	78	1960		8,678
7	North Loup: Block 1	21,929		4,100	2,439	1990	2046	113,064
7	Block 2	9,888				1991	2047	50,982
7	Block 3	6,420				1994	2050	33,101
	Block 4	<u>16,813</u>				<u>1996</u>	<u>2052</u>	86,686
	Other Units Rec. PS Power {4}							
	Buffalo Rapids - ID #1			5,000	10,017			
	Buffalo Rapids - ID #2			2,700	6,081			
	Buford Trenton - ID			675	1,152			
	Dodson-ID			95	80			
	Intake-ID			50	80			
	Lower Yellowstone - ID #1 & # 2			500	758			
	Sidney Water Users Irr. Dist			1,500	1,433			
	Kinsey Irr. Company			720	1,883			
	Indian Units Receiving P-S MBP Power {4}			5,200	4,675			
	Existing Unit Totals	498,959	107,600	32,412	46,385			637,433

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		Full	Supp.	Capacity (kW)	Energy (1000 kWh)				
<b>Projects in Construction Phase</b>									
<b>1. Garrison Diversion Unit</b>									
(2) GDU		1,000		225	168	1988	{5}	{6}	
(2) GDU		7,912		24,791	4,586	2026	{7}	45,775	
(2) GDU		3,632		1,689	312	2027		25,453	
(2) GDU		5,872		2,730	505	2028		41,150	
(2) GDU		8,745		4,066	752	2029		61,284	
(2) GDU		10,885		5,062	936	2030		76,281	
(2) GDU		11,153		5,186	959	2031		78,159	
(2) GDU		10,440		4,855	898	2032		73,162	
(2) GDU		9,200		4,278	791	2033		64,472	
(2) GDU		7,327		3,407	630	2034		51,347	
(2) GDU		5,187		2,412	446	2035		36,350	
(2) GDU		3,387		1,575	291	2036		23,736	
(2) GDU		2,000		930	172	2037		14,016	
(2) GDU		1,000		465	86	2038		7,008	
(2) GDU		<u>28,000</u>		<u>13,020</u>	<u>2,408</u>	2039		<u>196,221</u>	
GDU Subtotals		115,740		74,691	13,940			794,413	
<b>2. Other Construction</b>									
Const. Phase Totals		115,740	0	74,691	13,940			794,413	
MB Other Units {11}		1,958,010	270,000	239,267	544,604	2020	2079	5,508,910	
						2103	2162		
						Investment per year based on 83 years.		66,372	
								per year	
Grand Totals		2,572,709	377,600	346,370	604,929			6,940,755	

**NOTES**

- (1) Existing unit repayment data taken from "GP Region's Aid to Irrigation from Power Revenues - FY 2001," memorandum from GP-3300 (Brownlee) to GP-2500 (St. George)
- (2) Garrison is being re-allocated. Will adjust when allocation is complete.
- (3) Reauthorized under P-S MPB in 1970. (P.L. 91-409)
- (4) See the sheet labeled 'District Power Demand' for a list of all units that are not "official" Pick-Sloan units but rather have special legislation to make them part of P-S or were grandfathered as part of the Ft. Peck Power system.
- (5) Repayment of irrigation aid under the GDU Reformulation Act of 1986 must not exceed 40 years from the year water is first delivered, and payments shall be made in equal annual installments.
- (6) This is the first portion of the Oakes test area. Since a full water supply is not available, irrigation aid payments are not considered to be due until the unit is fully operational. Capacity and energy requirements are left in the schedule since they will have to be withdrawn regardless.
- (7) Does not include aid to 2,380s acre of Indian land included in acreage total. Irrigation development has been indefinitely suspended due to financial infeasibility under current economic conditions.
- (8) Transferred from the United States to the Districts on November 22, 2002 per P.L. 106-366. Irrigations aid payments to be shown as the discounted present value of the payments which are paid in 2002. The difference will be shown as a chargeoff. Credit for Farwell is 27,089,00 and Sargent is 4,162,000.
- (9) Difference from 2000 is accounted for by a decrease in costs of estimate to complete.
- (10) Difference from 2000 is accounted for by an increase in costs of estimate to complete.
- {11} MB Other consists of the following Units:  
 Colorado: North Republican, Narrows  
 Kansas: Wilson, Kanopolis  
 Montana: Alzada, Battlefield, Benteen Flat, Bonanza, Brush, Cameron Bench, Chestnut Valley, Clarkston, Cracker Box, Crow, Diamond Ranch, Dunmore, Elm Coulee, Farmer Creek, Gallatin, Glasgow Bench, Haley, Hardin, Hardscrabble, Hobson, Huntley Extension, Jefferson, Lewistown, Madison, Marsh, Medicine Lake North, Medicine Lake South, Missouri Diversion, N-Bar-N, Newlan, Nickwall, Nohle, Rock Creek, Ross Fork, Saco Divide, Seven Mile-Sitting Bull, Seven Sisters, Shoestring, Shotgun, Sidney, Stipek, Sun-Teton, West Bench, Whitehall, Wyola, Yellow Bluff  
 North Dakota: Bismarck, Broncho, Burnt Creek, Hancock Flats, Horsehead Flats, Manley, Nesson, Oliver-Sanger, Painted Woods, Square Butte, Williston, Winona, Wogansport  
 Nebraska: Albion, Cedar Rapids, Little Blue, Mirage Flats Extension, Nebraska Mid-State, O'Neill  
 South Dakota: Belle Fourche, Crazy Horse, Culdesac, Fort Thompson, Grass Rope, Greenwood, Iron Nation, Joe Creek, LaRoche, Pine Ridge, Rousseau, Tower, Yankton, Pollock-Herried, Lake Andes-Wagner, Oahe  
 Wyoming: Bighorn, Boysen, Buffalo, Crazy Woman, Edgemont, French Creek, Glendo, Greybull Flat, Hudson Bench, Kaycee, Little Wind, Lower Powder, Piney, Sheridan, Shoshoni, Tongue Pumping, Ucross, Shoshone Extension