

Statistical Appendix



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ANNUAL REPORT



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SYSTEM PROFILE

as of September 30, 1998

	Boulder Canyon	Central Arizona (Navajo)	Central Valley Project	Falcon- Amistad	Loveland Area Projects	Pacific NW-SW Intertie	Parker- Davis	Pick-Sloan Missouri Basin — Eastern Division	Provo River	Salt Lake City Area Integrated Projects	Washoe	Other	Total Western
Transmission lines													
Circuit miles	57	0	855	0	3,491	763	1,537	7,745	0	2,406	0	0	16,854
Circuit kilometers	92	0	1,376	0	5,616	1,228	2,473	12,462	0	3,871	0	0	27,118
Land													
Acres	35	0	13,033	0	37,330	21,951	12,396	94,672	0	33,103	0	160	212,680
Hectares	13	0	5,277	0	15,113	8,887	5,018	38,329	0	13,402	0	65	86,104
Number of substations	3	1	15	0	80	3	32	99	0	25	0	0	258
Number of powerplants	1	1	10	2	19.5	0	2	7.5	1	11	1	0	56
Energy sales (MWh)													
Total energy sales (MWh)	5,697,855	3,504,000	10,417,339	137,045	2,201,105	0	1,631,313	12,776,137	32,475	8,600,636	10,916	0	45,008,821
Firm sales (MWh)	5,697,855	3,504,000	6,984,169	0	2,048,147	0	1,338,054	8,808,802	0	7,065,437	0	0	35,446,464
Nonfirm sales (MWh)	0	0	2,040,863	137,045	143,574	0	293,035	3,929,486	32,475	1,410,259	10,916	0	7,997,653
Project use sales (MWh)	0	0	1,392,307	0	9,384	0	0	36,619	0	69,296	0	0	1,507,606
Interproject transfers (MWh)	0	0	0	0	0	0	224	1,230	0	55,644	0	0	57,098
Power revenues (\$)													
Total power revenues (\$)	43,480,083	70,770,835	182,950,411	3,588,928	45,668,992	0	7,934,541	212,536,383	265,032	152,562,429	64,293	0	719,821,927
Firm power revenues (\$)	43,480,083	70,770,835	138,188,957	0	44,496,675	0	3,647,829	136,669,871	0	125,938,923	0	0	563,193,173
Nonfirm power revenues (\$)	0	0	31,669,589	3,588,928	1,148,592	0	4,280,456	75,691,913	265,032	23,733,512	64,293	0	140,442,315
Project use revenues (\$)	0	0	13,091,865	0	23,725	0	0	136,204	0	1,375,216	0	0	14,627,010
Interproject transfers (\$)	0	0	0	0	0	0	6,256	38,395	0	1,514,778	0	0	1,559,429
Number of customers ¹	15	2	118	1	40	0	49	329	2	139	1	0	636

The sum of the projects' number of customers does not equal the total because some customers buy power from more than one project.

FACILITIES

Buildings and communications sites

Project	Number of buildings	Number of communications sites	Fee area ¹		Withdrawal area ²		Easement area	
			Acres	Hectares	Acres	Hectares	Acres	Hectares
Central Arizona (Navajo)	1	-	-	-	-	-	-	-
Central Valley	27	16	-	-	-	-	-	-
Loveland Area Projects	190	80	-	-	-	-	-	-
Pacific NW-SW Intertie	9	-	-	-	-	-	-	-
Parker-Davis	66	53	-	-	-	-	291	118
Pick-Sloan Missouri Basin— Eastern Division	230	145	228	92	2	1	420	170
Salt Lake City Area Integrated Projects	77	65	2	1	-	-	114	46
Western total	600	358	230	93	2	1	825	334

¹ Buildings and communication sites are often at the substation site in which cases no land is assigned.

² Areas that have been set aside by the Bureau of Land Management for Western transmission and substation use.

Substations

Project	Number of substations	Number of buildings	Transformers		Fee area		Withdrawal area ¹		Easement area	
			Number	Capacity (kVa)	Acres	Hectares	Acres	Hectares	Acres	Hectares
Boulder Canyon	3	-	9	1,798,999	-	-	-	-	3	4
Central Arizona (Navajo)	1	-	5	228,000	-	-	-	-	-	-
Central Valley	15	21	16	2,162,216	271	435.47	-	-	1	1
Loveland Area Projects	80	1	73	2,244,708	11	17.35	-	-	6	10
Pacific NW-SW Intertie	3	12	5	5,131,167	286	460.53	4,243	6,828	117	189
Parker-Davis	32	37	38	1,905,874	277	446.38	115	185	114	183
Pick-Sloan Missouri Basin— Eastern Division	99	225	125	8,043,639	2,022	3,254.21	21	34	248	400
Salt Lake City Area Integrated Projects	25	33	38	4,927,895	527	847.64	129	207	513	826
Western total	258	329	309	26,442,498	3,394	5,461.58	4,507	7,253	1,002	1,612

¹ Areas that have been set aside by the Bureau of Land Management for Western transmission and substation use.

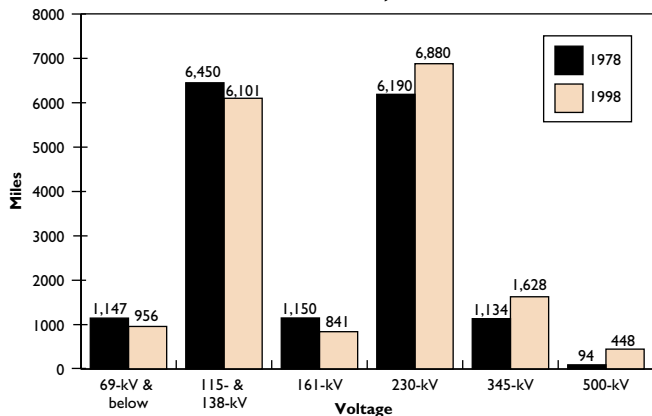
TRANSMISSION LINE SUMMARY

(In circuit miles)

State	500-kV		345-kV		230-kV		161-kV	
	Miles	Kilometers	Miles	Kilometers	Miles	Kilometers	Miles	Kilometers
Arizona	-	-	703.97	1,132.69	805.70	1,296.37	143.01	230.10
California	448.27	721.27	-	-	838.13	1,348.55	204.19	328.54
Colorado	-	-	392.98	632.30	857.00	1,378.91	-	-
Iowa	-	-	20.33	32.71	164.52	264.71	192.23	309.30
Minnesota	-	-	-	-	247.33	397.95	-	-
Missouri	-	-	-	-	-	-	17.95	28.88
Montana	-	-	-	-	559.95	900.96	283.28	445.80
Nebraska	-	-	136.99	220.42	106.06	170.65	-	-
Nevada	-	-	11.40	18.34	147.43	237.21	-	-
New Mexico	-	-	44.00	70.80	67.39	108.43	-	-
North Dakota	-	-	40.74	65.55	983.30	1,582.13	-	-
South Dakota	-	-	260.33	418.87	1,766.12	2,841.69	-	-
Utah	-	-	17.60	28.32	-	-	-	-
Wyoming	-	-	-	-	337.20	542.55	-	-
Total	448.27	721.27	1,628.34	2,620.00	6,880.13	11,070.13	840.66	1,352.62

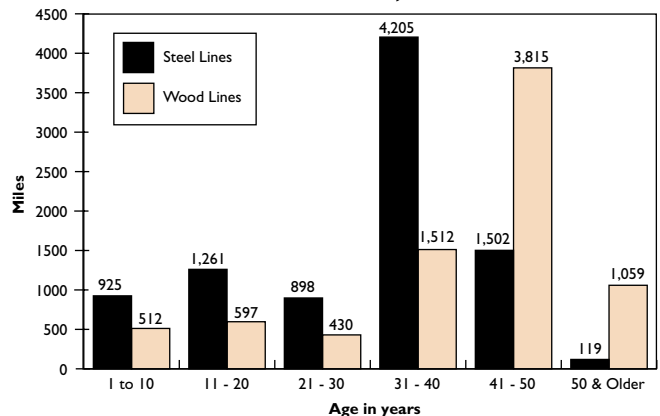
State	138-kV		115-kV		69-kV & Below		Total Western	
	Miles	Kilometers	Miles	Kilometers	Miles	Kilometers	Miles	Kilometers
Arizona	-	-	373.60	601.12	111.71	179.74	2,137.99	3,440.43
California	-	-	7.37	11.86	48.26	77.65	1,546.22	2,487.87
Colorado	212.19	341.41	764.78	1,230.53	89.98	144.78	2,316.93	3,727.94
Iowa	-	-	-	-	-	-	377.08	606.72
Minnesota	-	-	14.99	24.12	-	-	262.32	422.07
Missouri	-	-	-	-	-	-	17.95	28.88
Montana	-	-	529.40	851.80	73.86	118.84	1,446.49	2,327.40
Nebraska	-	-	479.48	771.48	75.26	121.09	797.79	1,283.64
Nevada	-	-	-	-	3.40	5.47	162.23	261.03
New Mexico	-	-	-	-	2.70	4.34	114.09	183.57
North Dakota	-	-	886.27	1,426.01	145.86	234.69	2,056.17	3,308.38
South Dakota	-	-	1,343.15	2,161.13	7.06	11.36	3,376.66	5,433.05
Utah	117.40	188.90	-	-	0.32	0.51	135.32	217.73
Wyoming	-	-	1,371.71	2,207.08	397.55	639.66	2,106.46	3,389.29
Total	329.59	530.31	5,770.75	9,285.13	955.96	1,538.13	16,853.70	27,118.00

Transmission Lines in Service
as of Oct. 1, 1998



Total miles of lines
1978 - 16,165 miles
1998 - 16,854 miles

Transmission Line Age
as of Oct. 1, 1998



Service life:
40 years for wood pole lines, 100 years for structures and 50 years for conductor insulator assemblies on steel lines.
This graph includes only wood and steel line structures.

DC TIES-PHASE SHIFTERS



INTERCONNECTIONS

Western has a total of 185 control area interconnections with 21 entities. This includes four ties between the four Western control areas including two direct current links. Western also has a DC link with the Nebraska Public Power District.

Control Area	Regional Office	Number of Control Area Interconnections
WAPA (East-MAPP)	Upper Great Plains	81
WAUM (West-WSCC)	Upper Great Plains	9
WALC (WSCC)	Desert Southwest	39
WACM (WSCC)	Rocky Mountain and CRSP Customer Service Center	56
	Total	185

The Upper Great Plains Region operates two control areas — one in the eastern interconnection and one in the western interconnection. The Desert Southwest Region operates a control area in the western interconnection. The Colorado River Storage Project Customer Service Center and the Rocky Mountain Region operate a combined control area in the western interconnection.

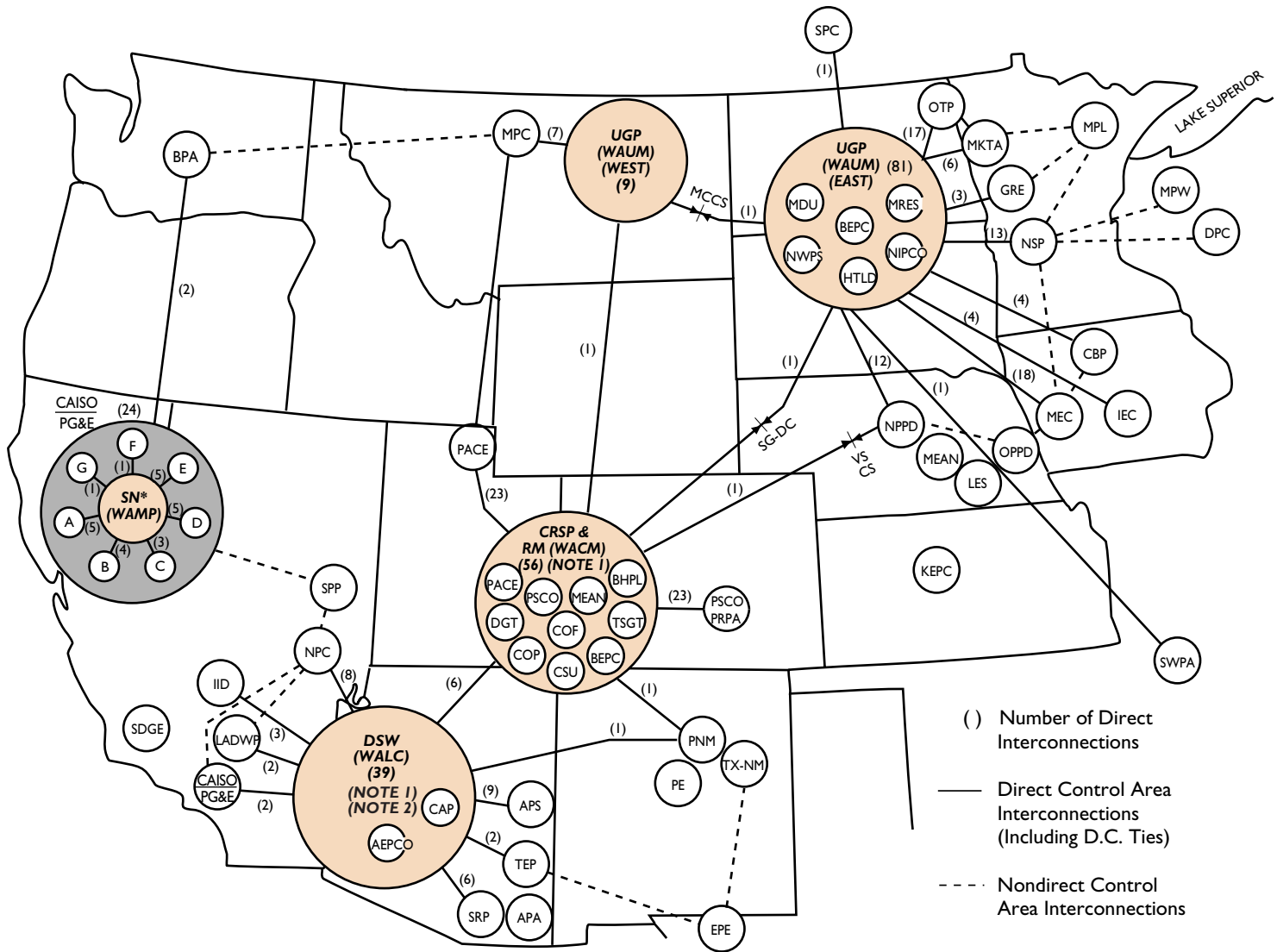
The Sierra Nevada Region operates inside California Independent System Operator’s control area. Sierra Nevada has 53 interconnections with 11 entities. Although not a control area, most directly connected customers coordinate energy scheduling through the Sierra Nevada control center.

Western regularly schedules energy with approximately 25 load-serving entities with which it does not have a direct interconnection. Transactions are scheduled on an irregular basis with approximately 75 other load-serving entities with which we do not have direct interconnections. Additional schedules are also occurring with power marketers and brokers.

Western has more than 1,700 active contract agreements with utilities in 18 states, which include our more than 600 power customers. There are 1,440 load-serving interconnections with 382 customers inside the load control boundaries.

Region	Load-Serving Interconnections
Upper Great Plains	1,000
Rocky Mountain	255
Desert Southwest	123
Sierra Nevada	24
CRSP Customer Service Center	38
Total	1,440

Continued on the next page.



() Number of Direct Interconnections
 — Direct Control Area Interconnections (Including D.C. Ties)
 - - - Nondirect Control Area Interconnections

* SN does not operate a control area; it operates within the California ISO control area.

Company

- A** Sacramento Municipal Utility District
- B** Redding Electric Department
- C** City of Shasta Lake
- D** Roseville Electric Department
- E** Contra Costa Water District
- F** DOE-Lawrence Livermore Nat'l Lab
- G** Turlock Irrigation District
- AEPCO** Arizona Electric Power Cooperative
- APA** Arizona Power Authority
- APS** Arizona Public Service Company
- BEPC** Basin Electric Power Cooperative
- BHPL** Black Hills Power and Light
- BPA** Bonneville Power Administration
- CAISO** California Independent System Operator
- CAP** Central Arizona Project
- CBP** Cornbelt Power Cooperative
- COF** City of Farmington
- COP** City of Page
- CSU** Colorado Springs Utilities
- DGT** Deseret Generation and Transmission

- DPC** Dairyland Power Cooperative
- EPE** El Paso Electric Company
- GRE** Great River Energy Services
- HTLD** Heartland Consumers Power District
- IEC** Interstate Energy Corporation (Alliant Energy)
- IID** Imperial Irrigation District
- KEPC** Kansas Electric Power Cooperative
- LADWP** Los Angeles Department of Water and Power
- LES** Lincoln Electric Service
- MRES** Missouri River Energy Services
- MDU** Montana-Dakota Utilities
- MEAN** Municipal Energy Agency of Nebraska
- MKTA** Minnkota Power Cooperative
- MPC** Montana Power Company
- MPL** Minnesota Power and Light
- MPW** Muscastine Power and Water
- MEC** MidAmerica Energy Company
- NIPCO** Northwest Iowa Power Cooperative
- NPC** Nevada Power Company
- NPPD** Nebraska Public Power District
- NSP** Northern States Power

- NWPS** Northwestern Public Service
- OPPD** Omaha Public Power District
- OTP** Ottertail Power Company
- PACE** PacifiCorp East
- PE** Plains Electric (New Mexico)
- PG&E** Pacific Gas and Electric Co.
- PNM** Public Service of New Mexico
- PRPA** Platte River Power Authority
- PSCO** Public Service Company of Colorado
- SCE** Southern California Edison
- SDGE** San Diego Gas and Electric
- SPC** Saskatchewan Power Corporation
- SPP** Sierra Pacific Power Company
- SRP** Salt River Project
- SWPA** Southwestern Power Administration
- TEP** Tucson Electric Power Company
- TSGT** Tri-State Generation and Transmission
- TX-NM** Texas-New Mexico Power Company

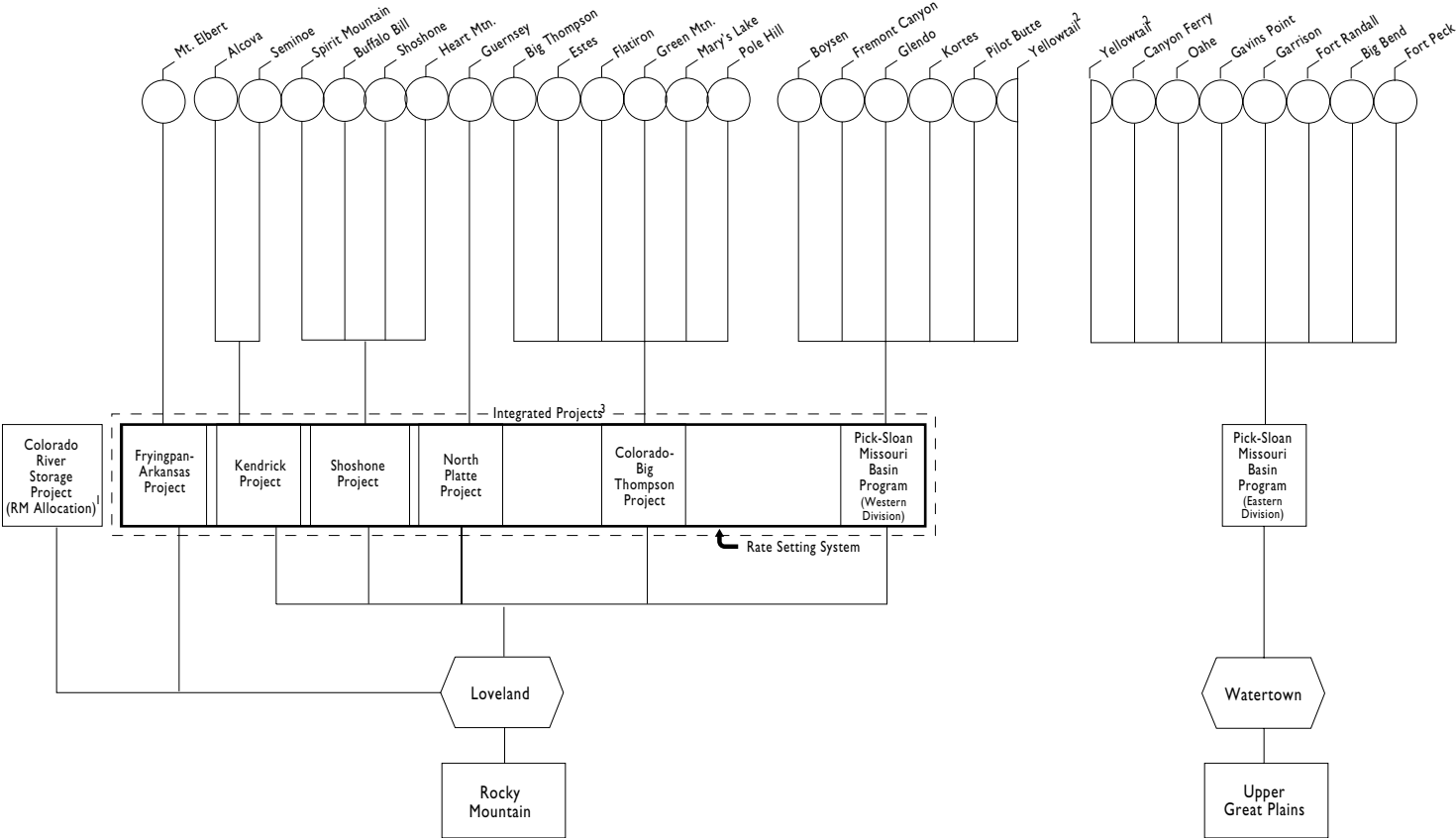
NOTE 1. RM (WACM) and DSW (WALC) rearranged control area boundaries on April 1, 1998.

NOTE 2. DSW (WALC) also has 12 pseudo ties with CRSP generators in the RM (WACM) control area.

DC Tie Information	Capacity	
	East to West	West to East
MCCS Miles City Converter Station	200 MW	150 MW
VSCS Virginia Smith Converter Station	200 MW	200 MW
SG-DC Stegall DC tie (David Hamil Converter Station)	100 MW	100 MW

- SN (WAMP)** Sierra Nevada Region (Western Area Mid Pacific)
- DSW (WALC)** Desert Southwest Region (Western Area Lower Colorado)
- CRSP & RM (WACM)** CRSP & Rocky Mountain Region (Western Area Colorado Missouri)
- UGP (WAUM) (West)** Upper Great Plains Region (Western Area Upper Missouri) (West)
- UGP (WAUM) (East)** Upper Great Plains Region (Western Area Upper Missouri) (East)

POWER MARKETING SYSTEM



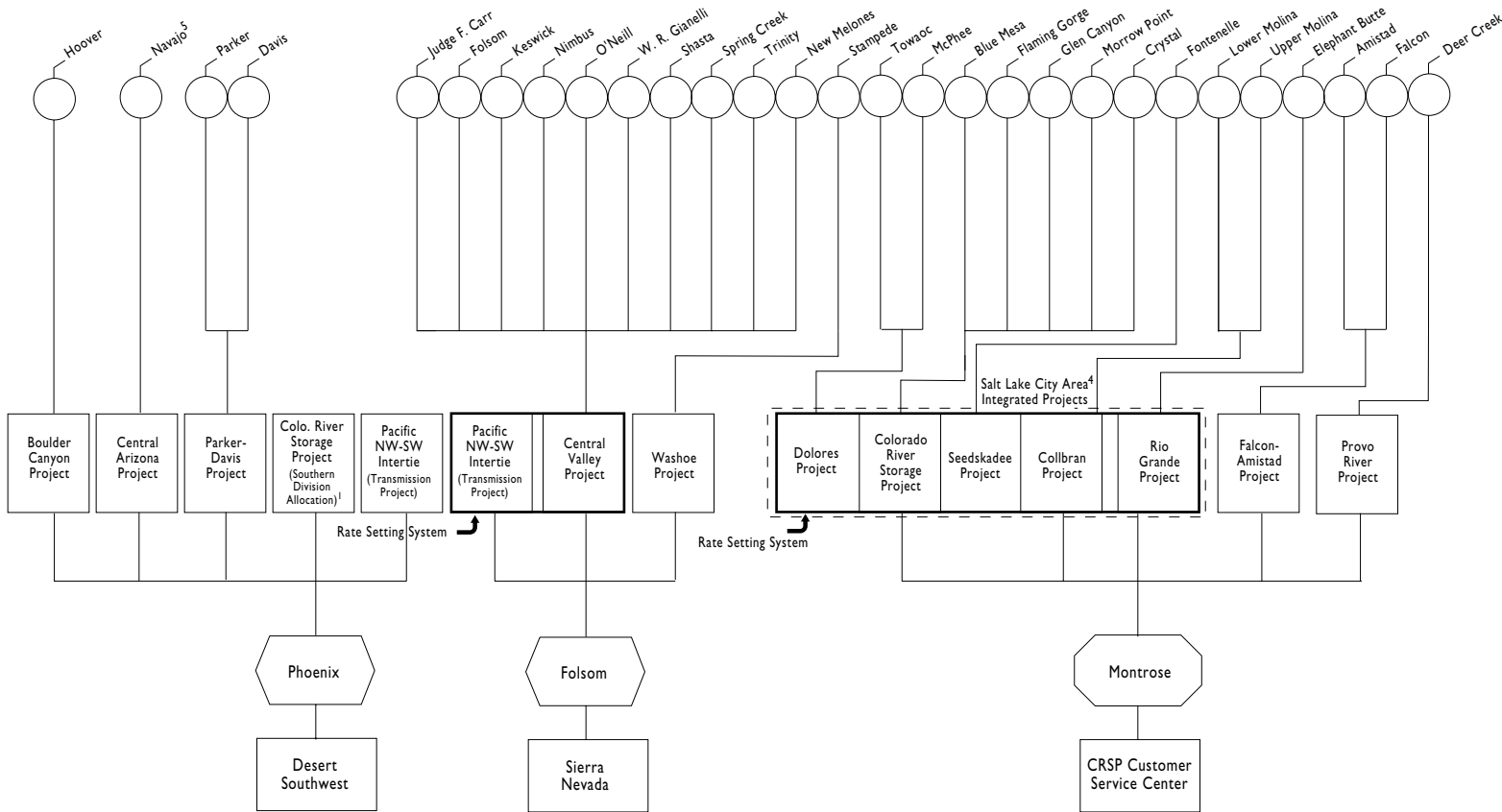
¹ Power marketed from Colorado River Storage Project resources.

² Generation from units 1 and 2 are marketed by the Rocky Mountain Region; from units 3 and 4 by the Upper Great Plains Region. Yellowtail is controlled by Rocky Mountain.

³ These resources are integrated for marketing, operation and repayment purposes.

⁴ These resources are integrated for marketing and operation purposes.

⁵ Coal-fired generation.



- Power Resources
- Project or Power System
- ⬡ Dispatch and/or Billing Office/Marketing Office
- ▭ Regional Office or Customer Service Center
- ⬡ Marketing Office

EXISTING POWERPLANTS

as of September 30, 1998

Project/state/ plant name	Operating agency	River	Initial in-service date	Existing number of units	Installed capability ¹ FY 1998 (MW)	Actual operating capability (MW)		Net generation GWh ²	
						July 1, 1998	July 1, 1997	FY 1998	FY 1997
Boulder Canyon									
Arizona-Nevada									
Hoover	BuRec	Colorado	Sep-36	19	2074 ³	1,914	1,909	5,845	5,284
Boulder Canyon total				19	2,074	1,914	1,909	5,845	5,284
Central Arizona									
Arizona									
Navajo	SRP ⁴	n/a	May-74	3	547 ⁵	547	543	3,504	3,627
Central Arizona total				3	547	547	543	3504	3627
Central Valley									
California									
J.F. Carr	BuRec	Clear Creek Tunnel	May 63	2	154	85	142	451	456
Folsom	BuRec	American	May 55	3	215	127	180	906	644
Keswick	BuRec	Sacramento	Oct 49	3	105	85	89	522	483
New Melones	BuRec	Stanislaus	Jun 79	2	383	365	360	684	975
Nimbus	BuRec	American	May 55	2	14	12	9	88	56
O'Neill ⁶	BuRec	San Luis Creek	Nov 67	6	29	0	28	5	5
Shasta	BuRec	Sacramento	Jun 44	7	578	505	451	2,618	2,218
Spring Creek	BuRec	Spring Creek Tunnel	Jan 64	2	200	166	184	763	565
Trinity	BuRec	Trinity	Feb 64	3	140 ⁷	130	130	664	586
W.R. Gianelli ⁸	CDWR ⁹	San Luis Creek	Mar 68	8	202 ¹⁰	150	107	106	189
Central Valley total				38	2,020	1,625	1,680	6,805	6,177
Falcon-Amistad									
Texas									
Amistad	IBWC	Rio Grande	Jun 83	2	66 ¹¹	46	23	103	66
Falcon	IBWC	Rio Grande	Oct 54	3	32 ¹¹	18	14	34	32
Falcon-Amistad total				5	98	64	37	137	98
Loveland Area Projects									
Colorado									
Big Thompson	BuRec	Trans. Mtn. Div	Apr 59	1	5	5	5	7	14
Estes	BuRec	Trans. Mtn. Div	Sep 50	3	51	34	51	89	100
Flatiron ⁶	BuRec	Trans. Mtn. Div	Jan 54	3 ¹²	95	86	86	195	208
Green Mountain	BuRec	Blue	May 43	2	26	0	26	48	83
Mary's Lake	BuRec	Trans. Mtn. Div	May 51	1	8	8	8	33	39
Mount Elbert ⁶	BuRec	Arkansas	Oct 81	2	206	206	206	228	240
Pole Hill	BuRec	Trans. Mtn. Div.	Jan 54	1	33	34	33	153	165
Montana									
Yellowtail ¹³	BuRec	Big Horn	Aug 66	2	144	108	130	516	650
Wyoming									
Alcova	BuRec	North Platte	Jul 55	2	40	36	40	151	155
Boysen	BuRec	Wind	Aug 52	2	18	17	0	95	91
Buffalo Bill	BuRec	Shoshone	May 95	3	18	18	18	83	109
Fremont Canyon	BuRec	North Platte	Dec 60	2	66	66	66	332	325
Glendo	BuRec	North Platte	Dec 58	2	38	36	36	111	131
Guernsey	BuRec	North Platte	Jul 99	2	7	7	7	27	24
Heart Mountain	BuRec	Shoshone	Dec 48	1	5	6	5	17	17
Kortes	BuRec	North Platte	Jun 50	3	39	39	39	168	194
Pilot Butte	BuRec	Wind	Jan 99	2	2	2	2	4	4
Seminole	BuRec	North Platte	Aug 39	3	51	48	51	176	207
Shoshone	BuRec	Shoshone	May 95	1	3	3	3	23	21
Spirit Mountain	BuRec	Shoshone	May 95	1	5	5	5	17	14
Loveland Area Projects total				39	864	764	817	2,471	2,792
Parker-Davis									
Arizona									
Davis	BuRec	Colorado	Jan 51	5	269	269	243	1,241	1,337
California									
Parker	BuRec	Colorado	Dec 42	4	69 ¹¹	69	50	521	551
Parker-Davis total				9	338	338	293	1,762	1,888

Continued on the next page.

Project/state/ plant name	Operating agency	River	Initial in-service date	Existing number of units	Installed capability ¹ FY 1998 (MW)	Actual operating capability (MW)		Net generation GWh ²	
						July 1, 1998	July 1, 1997	FY 1998	FY 1997
Pick-Sloan Eastern Division									
Montana									
Canyon Ferry	BuRec	Missouri	Dec 53	3	60	60	60	469	447
Fort Peck	Corps	Missouri	Jul 43	5	218	211	219	1,242	1,333
Yellowtail ³	BuRec	Big Horn	Aug 66	2	144	108	130	551	650
North Dakota									
Garrison	Corps	Missouri	Jan 56	5	546	484	530	2,644	3,082
South Dakota									
Big Bend	Corps	Missouri	Oct 64	8	538	467	381	1,227	1,477
Fort Randall	Corps	Missouri	Mar 54	8	387	370	375	1,997	2,539
Gavins Point	Corps	Missouri	Sep 56	3	122	111	110	831	821
Oahe	Corps	Missouri	Apr 62	7	786	728	762	3,379	4,593
Pick-Sloan Eastern Division total				41	2,801	2,539	2,567	12,340	14,942
Provo River									
Utah									
Deer Creek	PWUA	Provo	Feb 58	2	5	5	5	32	37
Provo River total				2	5	5	5	32	37
Salt Lake City Integrated Projects									
Arizona									
Glen Canyon	BuRec	Colorado	Sep 64	8	1,356	1,288	1,288	6,626	6,700
Colorado									
Blue Mesa	BuRec	Gunnison	Sep 67	2	96	86	86	296	372
Crystal	BuRec	Gunnison	Sep 78	1	28	28	28	210	218
Lower Molina	BuRec	Pipeline	Dec 62	1	5	5	5	24	15
McPhee	BuRec	Dolores	Jun 93	1	1	1	1	1	1
Morrow Point	BuRec	Gunnison	Dec 70	2	156	156	156	366	481
Towaoc	BuRec	Canal	Jun 93	1	11	11	11	15	9
Upper Molina	BuRec	Pipeline	Dec 62	1	9	9	9	40	32
New Mexico									
Elephant Butte	BuRec	Rio Grande	Nov 40	3	28	28	28	116	109
Utah									
Flaming Gorge	BuRec	Green	Nov 63	3	152	152	152	767	691
Wyoming									
Fontenelle	BuRec	Green	May 68	1	13	10	10	79	71
Salt Lake City Integrated Projects total				24	1,855	1,775	1,774	8,540	8,699
Washoe									
California									
Stampede	BuRec	Little Truckee	Dec 86	1	3	3	3	11	9
Washoe total				1	3	3	3	11	9
Grand total				181	10,605	9,574	9,628	41,447	43,554

¹ Maximum operating capability is the maximum generating capability of the units at unity power factor without exceeding the specified heat rise on each unit and independent of water constraints.

² Net generation is gross plant generation less plant use. These amounts have not been reduced by other priorities such as project pumping energy.

³ Includes 4.8 MW reserved for plant use.

⁴ Salt River Project.

⁵ United States' share (24.3 percent) of 2,250 MW plant capability.

⁶ Pump/generating plant.

⁷ Includes 0.35 MW at Lewiston Powerplant.

⁸ Formerly San Luis Pump/Generating Plant.

⁹ California Department of Water Resources.

¹⁰ United States' share of 424 MW capability.

¹¹ United States' share (50 percent) of plant capability.

¹² Only unit 3 has pump/generation capability.

¹³ Generation from units 1 and 2 is marketed by the Rocky Mountain Region, and from units 3 and 4 by the Upper Great Plains Region. For this table, one-half of the total capability and output is shown under each of these two Regions.

BuRec - Bureau of Reclamation, U.S. Dept. of Interior

IBWC - International Boundary and Water Commission, U.S. Dept. of State

Corps - U.S. Army Corps of Engineers

PWUA - Provo Water Users Association

RESOURCES

Energy Resource and Disposition

	(GWh)			(GWh)	
	FY 1998	FY 1997		FY 1998	FY 1997
Energy resource			Energy disposition		
Net generation	41,335 ¹	43,359	Sales of electric energy		
Interchange			Western	43,249	44,294
Received	893	702	Project Use (Reclamation)	1,702	1,506
Delivered	1,083	959	Total sales of electric energy	44,951	45,800
Net	(190)	(257)	Other		
Purchases			Interarea/interproject/ interdepartment	57	8
Non-Western	5,919	5,345	Other deliveries	344	320
Western	43	5	Total other	401	328
Total purchases	5,962	5,350	Total energy delivered	45,352	46,128
Total energy resources	47,107	48,452	System and contractual losses	1,755	2,324
			Total energy disposition	47,107	48,452

¹ Reduced by Gianelli and O'Neill generation (111 kWh) which is offset against Project Use sales.

Capability and Net Generation

Rate setting system	Maximum operating capability (MW)	July 1, 1998	July 1, 1997	FY 1998	FY 1997
		Actual operating capability (MW)	Actual operating capability (MW)	Net generation (GWh)	Net generation (GWh)
Boulder Canyon	2,074	1,914	1,909	5,845	5,284
Central Arizona Project (Navajo)	547	547	543	3,504	3,627
Central Valley	2,020	1,625	1,680	6,805	6,177
Falcon-Amistad	98	98	37	137	98
Loveland Area Projects	864	764	817	2,471	2,793
Parker-Davis	338	338	293	1,762	1,888
Pick-Sloan Missouri Basin Program (Eastern Division)	2,801	2,539	2,567	12,340	14,942
Provo	5	5	5	32	37
Salt Lake City Area Integrated Projects	1,855	1,775	1,774	8,540	8,699
Washoe	3	3	3	11	9
Total	10,605	9,608	9,628	41,447	43,554

Capability and Net Generation by State

State	Number of units	Maximum operating capability (MW)	Actual operating capability (MW)		Net generation (GWh)	
			July 1, 1998	July 1, 1997	FY 1998	FY 1997
Arizona*	26	3,196	3,061	3,017	14,294	14,276
California	43	2,093	1,697	1,733	7,337	6,738
Colorado	22	735	670	711	1,703	1,976
Montana	12	566	487	539	2,778	3,080
North Dakota	5	546	484	530	2,644	3,082
New Mexico	3	28	28	28	116	109
Nevada	9	1,049	957	966	2,923	2,673
South Dakota	26	1,833	1,676	1,628	7,434	9,431
Texas	5	98	98	37	137	98
Utah	5	157	157	157	800	727
Wyoming	25	303	293	282	1,282	1,364
Totals	181	10,605	9,608	9,628	41,447	43,554

*Note: Includes Navajo generating station.

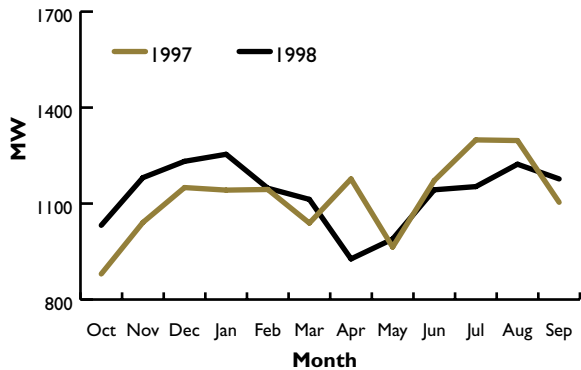
POWERPLANTS



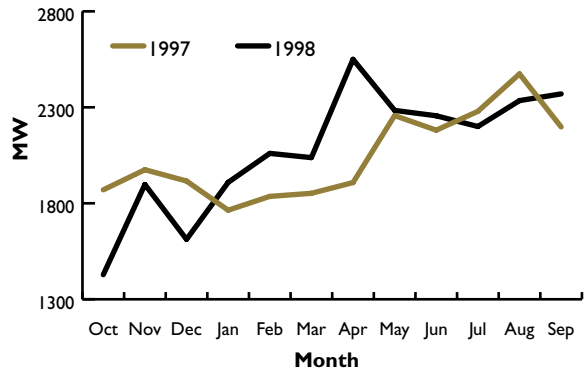
- REGIONAL BOUNDARIES
- POWERPLANTS
- ★ REGIONAL OFFICE
- ★ (with star in circle) CORPORATE SERVICES OFFICE
- ★ (with star in circle) CRSP CUSTOMER SERVICE CENTER
(Serves Utah, New Mexico, and parts of Arizona, Colorado, Nevada, Texas and Wyoming)

PEAK FIRM LOADS

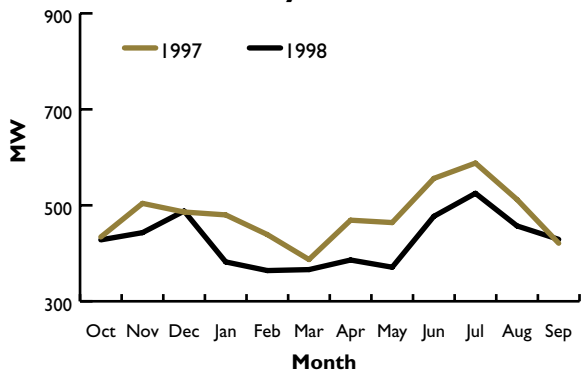
CRSP Customer Service Center



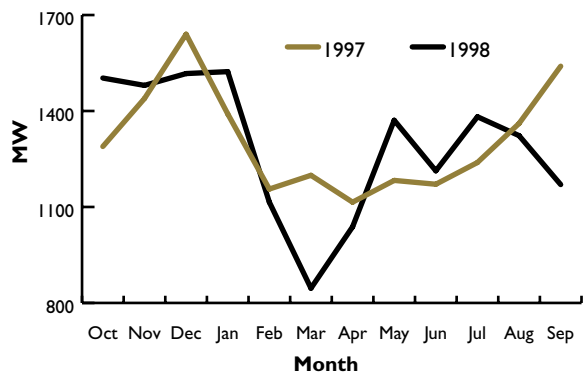
Desert Southwest



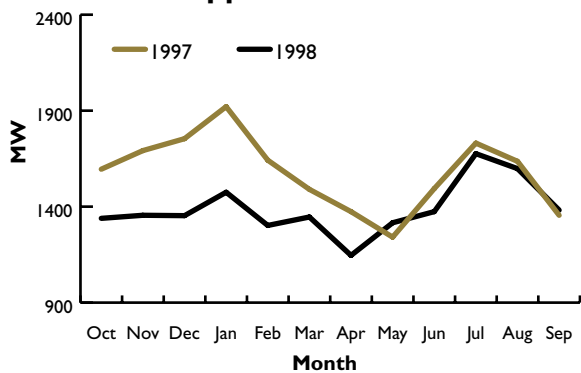
Rocky Mountain



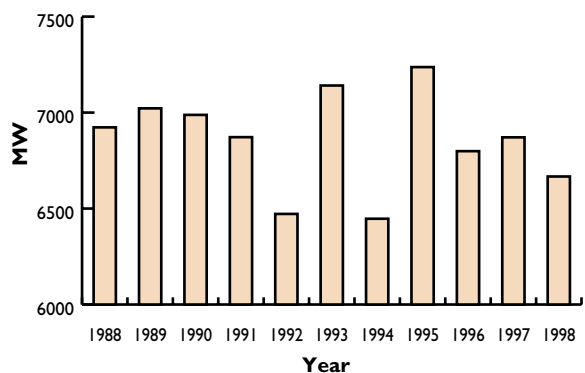
Sierra Nevada



Upper Great Plains



Annual Coincident Peak Firm Load



These graphs show monthly regional at-plant coincident peak firm loads, except that Sierra Nevada Project Use loads may not be coincident with the load management loads. Amounts for Desert Southwest and Rocky Mountain exclude Salt

Lake City Area Integrated Project loads. They are included in the CRSP amounts.

Our FY98 coincident firm and contingent peak load was 6,667 MW. The peak occurred on July 31 during the hour ending at 4 p.m. (MDT).

SALES SUMMARY

Power Sales by Project ¹

Project	FY 1998		FY 1997	
	(MWh)	Revenues (\$)	(MWh)	Revenues (\$)
Boulder Canyon	5,697,855	43,480,083	5,184,693	44,437,488
Central Arizona (Navajo) ²	3,504,000	70,770,835	3,626,309	66,694,098
Central Valley	10,417,339	182,950,411	9,062,902	193,612,100
Falcon-Amistad	137,045	3,588,928	96,194	3,552,348
Loveland Area Projects	2,201,105	45,668,992	2,339,808	47,466,718
Parker-Davis	1,631,313	7,934,542	1,845,246	14,838,482
Pick-Sloan Missouri Basin-Eastern Div	12,776,137	212,536,383	15,097,136	221,932,658
Provo River	32,475	265,032	36,611	332,538
Salt Lake City Area Integrated Projects	8,600,636	152,562,429	8,510,897	146,817,692
Washoe	10,916	64,293	9,000	21,000
Total Western	45,008,821	719,821,927 ³	45,808,796	739,705,122 ³

¹ Includes firm, nonfirm, project use, interdepartmental and interproject (reported as Other Income on Financial Statements) customers and energy sales to them.

² On June 1, 1994, Salt River Project began acting as the scheduling and marketing agent for the CAP portion of the Navajo Generating Station (547 MW). Western retains marketing and repayment responsibility and SRP pays Western monthly fixed and variable costs to meet repayment requirements.

³ Revenues differ from financial statements due to adjustments and accruals.

Sales by Customer Category

Project	FY 1998		FY 1997	
	(MWh)	Revenues (\$)	(MWh)	Revenues (\$)
Municipalities	10,861,290	174,060,659	9,390,374	165,878,376
Cooperatives	8,998,202	154,008,919	8,761,068	151,071,264
Federal agencies	2,075,391	36,042,325	1,998,948	39,888,216
State agencies	11,306,988	153,737,884	11,214,801	147,074,663
Public utility districts	4,304,171	86,611,584	4,509,676	104,293,881
Irrigation districts	694,902	8,182,525	779,360	10,796,869
Investor-owned utilities ¹	4,660,917	80,452,111	6,103,144	87,917,722
Power marketers	542,257	10,539,481	1,536,661	21,506,547
Subtotal	43,444,117	703,635,489	44,294,032	728,427,538
Project Use	1,507,606	14,627,009	1,506,142	11,082,211
Interdepartmental	0	0	744	6,696
Interproject ²	57,098	1,559,429	7,878	188,676
Total Western	45,008,821	719,821,927 ³	45,808,796	739,705,121 ³

¹ Western has one long-term firm investor-owned power customer. Southern California Edison has an entitlement to Boulder Canyon Project power.

² Interproject sales are sales among the various projects. This income appears in the Other Income line of Western's Financial Statements.

³ Revenues differ from financial statements due to adjustments and accruals.

Power Sales by State and Customer Class

State ¹	Municipalities	Cooperatives	Federal agencies	State agencies	Public utility districts	Irrigation districts	Investor-owned utilities	Power marketers	Inter-departmental	Inter-project	Project use	Total
Alabama												
Energy sales - MWh	0	0	0	0	0	0	0	127,025	0	0	0	127,025
Power revenue - \$	0	0	0	0	0	0	0	2,035,139	0	0	0	2,035,139
Arizona												
Energy sales - MWh	97,020	113,437	464,273	6,248,359	0	342,432	215,420	0	0	29,389	0	7,510,330
Power revenue - \$	972,190	1,014,532	5,133,963	100,269,454	0	2,823,916	3,812,751	0	0	793,892	0	114,820,698
California												
Energy sales - MWh	4,732,115	74,750	1,255,178	1,692,521	2,760,406	348,252	1,440,616	0	0	0	1,392,307	13,696,145
Power revenue - \$	76,366,318	1,373,417	24,381,968	13,927,777	56,473,272	5,315,658	19,757,301	0	0	0	13,091,865	210,687,576
Colorado												
Energy sales - MWh	645,808	2,142,268	66,738	952,527	0	0	80,641	57,869	0	27,709	17,114	3,990,674
Power revenue - \$	12,638,146	39,843,283	1,155,617	16,560,597	0	0	1,130,944	692,400	0	765,537	316,699	73,103,223
Georgia												
Energy sales - MWh	0	0	0	0	0	0	0	24,865	0	0	0	24,865
Power revenue - \$	0	0	0	0	0	0	0	676,062	0	0	0	676,062
Iowa												
Energy sales - MWh	685,047	522,910	0	0	0	0	592,220	1,601	0	0	0	1,801,778
Power revenue - \$	9,723,462	6,993,600	0	0	0	0	9,737,011	33,894	0	0	0	26,487,967
Idaho												
Energy sales - MWh	0	0	0	0	0	0	800	0	0	0	0	800
Power revenue - \$	0	0	0	0	0	0	11,200	0	0	0	0	11,200
Kansas												
Energy sales - MWh	96,458	90,056	0	0	0	0	0	0	0	0	0	186,514
Power revenue - \$	2,037,788	1,444,023	0	0	0	0	0	0	0	0	0	3,481,811
Massachusetts												
Energy sales - MWh	0	0	0	0	0	0	311	0	0	0	0	311
Power revenue - \$	0	0	0	0	0	0	37,890	0	0	0	0	37,890
Minnesota												
Energy sales - MWh	1,476,063	796,859	0	43,916	27,961	0	1,140,659	65,393	0	0	0	3,550,851
Power revenue - \$	20,208,155	12,198,200	0	593,733	559,781	0	21,923,878	1,467,328	0	0	0	56,951,075
Missouri												
Energy sales - MWh	0	79,413	0	0	0	0	255,952	180,808	0	0	0	516,173
Power revenue - \$	0	1,182,520	0	0	0	0	5,405,633	3,911,417	0	0	0	10,499,570
Montana												
Energy sales - MWh	0	695,282	3,274	4,317	0	3,967	301,200	0	0	0	24,918	1,032,958
Power revenue - \$	0	10,152,938	8,327	41,795	0	37,906	6,277,258	0	0	0	64,880	16,583,104
North Dakota												
Energy sales - MWh	189,627	904,873	3,141	99,075	0	0	7,490	7,932	0	0	5,854	1,217,992
Power revenue - \$	2,802,000	17,765,091	50,234	1,467,762	0	0	162,662	275,540	0	0	30,070	22,553,359
Nebraska												
Energy sales - MWh	591,676	218,947	0	276,102	1,441,546	0	0	16,740	0	0	3,084	2,548,095
Power revenue - \$	10,549,408	5,044,080	0	4,899,174	28,316,890	0	0	204,320	0	0	7,861	49,021,733
New Mexico												
Energy sales - MWh	184,139	1,088,493	142,684	0	0	0	134,345	0	0	0	51,715	1,601,376
Power revenue - \$	3,218,101	19,110,810	3,097,428	0	0	0	2,274,368	0	0	0	1,030,336	28,731,043
Nevada												
Energy sales - MWh	79,171	107,791	25,844	1,770,884	0	0	46,580	0	0	0	0	2,030,270
Power revenue - \$	554,688	1,938,529	69,947	12,240,746	0	0	829,867	0	0	0	0	15,633,777
Oklahoma												
Energy sales - MWh	0	0	0	0	0	0	0	86	0	0	0	86
Power revenue - \$	0	0	0	0	0	0	0	1,942	0	0	0	1,942
Oregon												
Energy sales - MWh	0	0	15,920	0	0	0	218,367	0	0	0	0	234,287
Power revenue - \$	0	0	523,760	0	0	0	4,392,719	0	0	0	0	4,916,479

Continued on the next page.

Power Sales by State and Customer Class, cont.

State ¹	Municipalities	Cooperatives	Federal agencies	State agencies	Public utility districts	Irrigation districts	Investor-owned utilities	Power marketers	Inter-departmental	Inter-project	Project use	Total
South Dakota												
Energy sales - MWh	715,208	1,010,871	33,279	126,494	69,805	0	49,487	0	0	0	2,763	2,007,907
Power revenue - \$	10,426,618	14,068,745	494,303	1,866,313	1,187,281	0	1,119,394	0	0	0	33,393	29,196,047
Texas												
Energy sales - MWh	0	137,045	0	0	0	0	190	27,023	0	0	0	164,258
Power revenue - \$	0	3,588,928	0	0	0	0	5,356	519,612	0	0	0	4,113,896
Utah												
Energy sales - MWh	1,345,030	497,895	48,231	31,394	0	0	100,764	1,375	0	0	525	2,025,214
Power revenue - \$	24,097,194	8,974,849	831,313	533,654	0	0	1,824,557	37,763	0	0	28,592	36,327,922
Washington												
Energy sales - MWh	0	0	0	0	0	0	15,570	0	0	0	0	15,570
Power revenue - \$	0	0	0	0	0	0	556,066	0	0	0	0	556,066
Wisconsin												
Energy sales - MWh	0	0	0	0	4,453	0	60,305	0	0	0	0	64,758
Power revenue - \$	0	0	0	0	74,360	0	1,193,256	0	0	0	0	1,267,616
Wyoming												
Energy sales - MWh	23,928	517,312	16,829	61,399	0	251	0	0	0	0	9,326	629,045
Power revenue - \$	466,591	9,315,374	295,465	1,336,879	0	5,045	0	0	0	0	23,314	11,442,668
Canada												
Energy sales - MWh	0	0	0	0	0	0	0	31,540	0	0	0	31,540
Power revenue - \$	0	0	0	0	0	0	0	684,064	0	0	0	684,064
TOTAL												
Energy sales - MWh	10,861,290	8,998,202	2,075,391	11,306,988	4,304,171	694,902	4,660,917	542,257	0	57,098	1,507,606	45,008,821
Power revenue - \$	174,060,659	154,008,919	36,042,325	153,737,884	86,611,584	8,182,525	80,452,111	10,539,481	0	1,559,429	14,627,010	719,821,927

¹ Represents billing address of customer, but not necessarily location of power delivery.

Customer Count by Project

Project	1998				1997			
	Firm only	Firm & nonfirm	Nonfirm only	Total	Firm only	Firm & nonfirm	Nonfirm only	Total
Boulder Canyon	15	0	0	15	15	0	0	15
Total Boulder Canyon	15	0	0	15	15	0	0	15
Central Arizona	1	0	1	2	1	0	0	1
Project use sales	0	0	0	0	0	0	1	1
Total Central Arizona	1	0	1	2	1	0	1	2
Central Valley	66	14	4	84	74	8	4	86
Project use sales	34	0	0	34	34	0	0	34
Total Central Valley	100	14	4	118	108	8	4	120
Falcon-Amistad	0	0	1	1	0	0	1	1
Total Falcon-Amistad	0	0	1	1	0	0	1	1
Loveland Area Projects	30	1	0	31	31	0	0	31
Project use sales	9	0	0	9	9	0	0	9
Interproject sales	0	0	0	0	0	0	0	0
Total Loveland Area Projects	39	1	0	40	40	0	0	40
Parker-Davis	23	3	21	47	9	17	18	44
Project use sales	0	0	0	0	1	0	0	1
Interproject sales	0	0	2	2	0	0	1	1
Total Parker-Davis	23	3	23	49	10	17	19	46
Pick-Sloan-Eastern	243	10	46	299	245	9	40	294
Project use sales	29	0	0	29	26	0	0	26
Interproject sales	0	0	1	1	0	0	0	0
Total Pick-Sloan-Eastern	272	10	47	329	271	9	40	320
Provo	0	0	2	2	0	0	2	2
Total Provo	0	0	2	2	0	0	2	2
Salt Lake City Area Integrated Projects ²	45	63	25	133	45	65	27	137
Project use sales	4	0	0	4	3	0	1	4
Interproject sales	0	0	2	2	0	0	3	3
Total Salt Lake City Area Integrated Projects	49	63	27	139	48	65	31	144
Washoe	0	0	1	1	0	0	1	1
Total Washoe	0	0	1	1	0	0	1	1

¹ Duplication occurs when more than one region provides power to a customer.

² Customer count includes 34 UAMPS members.

Note: In FY 1998, Western sold power to 490 preference customers (col 1+2), 93 of whom also purchased nonfirm power (col. 2). We also sold project use power to 76 customers, for a total of 566 firm customers. Nonfirm sales were made to 70 other customers (col. 3), such as power marketers and investor-owned utilities. Detailed information on each customer is listed in the by-project Sales and Revenue tables of this Statistical Appendix.

Customers by Customer Category

Customer category	1998				1997			
	Firm only	Firm & nonfirm	Nonfirm only	Total	Firm only	Firm & nonfirm	Nonfirm only	Total
Municipalities ¹	225	56	4	285	222	56	6	284
Cooperatives	27	15	8	50	34	9	3	46
Public utility districts	7	6	5	18	8	5	4	17
Federal agencies	47	5	2	54	42	14	2	58
State agencies	46	7	0	53	44	7	1	52
Irrigation districts ¹	45	3	0	48	37	13	0	50
Investor-owned utilities	0	1	30	31	0	2	28	30
Power marketers	0	0	21	21	0	1	22	23
Subtotal	397	93	70	560	387	107	66	560
Project use sales	76	0	0	76	75	0	2	77
Subtotal	473	93	70	636	462	107	68	637
Interdepartment sales	0	0	0	0	0	0	1	1
Total Western	473	93	70	636	462	107	69	638
Interproject sales	0	0	5	5	0	0	3	3
Total Western	473	93	75	641	462	107	72	641

¹ Customer count includes 34 UAMPS members (31 municipalities and 3 irrigation districts).

Note: In FY 1998, Western sold power to 490 preference customers (col 1+2), 93 of whom also purchased nonfirm power (col. 2).

We sold project use power to 76 customers, for a total of 566 firm customers. Nonfirm sales were made to 70 other customers (col. 3), such as power marketers and investor-owned utilities. Detailed information on each customer is listed in the by-project Sales and Revenue tables of this Statistical Appendix.

Customers by State

State ¹	1998				1997			
	Firm only	Firm & nonfirm	Nonfirm only	Total	Firm only	Firm & nonfirm	Nonfirm only	Total
Alabama	0	0	1	1	0	0	1	1
Arizona	24	8	2	34	13	24	7	44
California	108	23	4	135	108	22	7	137
Colorado	33	4	3	40	36	2	4	42
Georgia	0	0	1	1	0	0	1	1
Iowa	43	1	9	53	48	0	4	52
Kansas	2	0	0	2	2	0	0	2
Idaho	0	0	1	1	0	0	1	1
Massachusetts	0	0	1	1	0	0	0	0
Minnesota	50	3	8	61	50	3	5	58
Missouri	0	0	8	8	0	0	6	6
Montana	19	0	1	20	19	0	1	20
Nebraska	67	4	1	72	66	3	1	70
Nevada	3	2	2	7	2	3	4	9
New Mexico	8	7	1	16	4	10	2	16
North Dakota	39	1	3	43	39	2	2	43
Ohio	0	0	0	0	0	0	0	0
Oklahoma	0	0	1	1	0	1	0	1
Oregon	0	0	2	2	0	0	0	0
South Dakota	54	0	3	57	54	0	3	57
Texas	0	0	6	6	0	0	6	6
Utah ²	10	40	4	54	11	37	5	53
Washington	0	0	0	0	0	0	2	2
Wisconsin	0	0	5	5	0	0	7	7
Wyoming	13	0	0	13	10	0	0	10
Canada	0	0	3	3	0	0	0	0
Subtotal	473	93	70	636	462	107	69	638
Interproject sales	0	0	5	5	0	0	3	3
Total	473	93	75	641	462	107	72	641

¹ Represents billing address of customer, but not necessarily location of power delivery.

² Customer count includes 34 UAMPS members (31 municipalities and 3 irrigation districts).

Note: In FY 1998, Western sold power to 490 preference customers (col 1+2), 93 of whom also purchased nonfirm power (col. 2).

We sold project use power to 76 customers, for a total of 566 firm customers. Nonfirm sales were made to 70 other customers (col. 3), such as power marketers and investor-owned utilities. Detailed information on each customer is listed in the by-project Sales and Revenue tables of this Statistical Appendix.

Rate Actions Summary

Rate order no.	Project	Type of rate action	Date of notice of public participation	Effective date of rate (first day of first full billing period)	Rate schedule designation	Projected annual incremental \$(000)	Notes	Date submitted to FERC
WAPA-70	Boulder Canyon	Decrease	5/7/97		BCP-F5-3rd Interim Yr	(1,127)	Power	9/29/97
WAPA-70	Boulder Canyon	Increase	5/22/96		BCP-F5-2nd Interim Yr	142	Power	9/23/96
WAPA-70	Boulder Canyon	Decrease	5/8/95		BCP-F5-Initial Year	(12,593)	Power	10/31/95
WAPA-77	CVP	Power rate decrease	3/4/97	10/1/97	CV-F9	(\$31,089) - 1998	Power rate	9/29/97
		Transmission rate increase	3/4/97		CV-F9	(\$42,176) - 1999		
			3/4/97		CV-F9	(\$42,176) - 2000		
			3/4/97		CV-F9	(\$47,351) - 2001		
			3/4/97		CV-F9	(\$36,863) - 2002		
			3/4/97		CV-FT3	\$1,140 - all years	Transmission rate	
			3/4/97		CV-NFT3		Non-firm transmission	
			3/4/97		CV-SPR1		Spinning reserve service	
			3/4/97		CV-SUR1		Supplemental reserve service	
			3/4/97		CV-RFS1		Regulation and frequency response service	
			3/4/97		CV-EID1		Energy imbalance service	
			3/4/97		CV-PSS1		Power scheduling service	
			3/4/97		CV-NWT1		Network transmission	
NOTES:								
FERC approval was given 1/8/98								
Revenue from nonfirm transmission and all ancillary services was not projected in the rate case as these are sold on an "as available" basis only.								
WAPA-80	Loveland Area Projects	Increase	9/19/97	4/1/98	L-FPT1 L-NFPT1 L-NT1 L-AS1 through 6	— \$5,210 \$710	Firm point-to-point Nonfirm point-to-point Network transmission Ancillary services	3/27/98 3/27/98 3/27/98 3/27/98
WAPA-81	Loveland Area Projects	Firm Power Rate Extension Power Rate	8/18/98	10/01/94	L-F4	\$0	Rate extended through 1/31/01	N/A
WAPA-78	Pacific Intertie	Increase	4/3/98	1/1/99	INT-FT3	\$5,691	Transmission	1/27/99
WAPA-75	Parker-Davis	Decrease	11/26/97	11/1/97	PD-6	(3,827)	Power	11/18/97
		Increase	11/26/97	11/1/97	PD-FT6 *		Transmission	11/18/97
		Increase	11/26/97	11/1/97	PD-NFT6 *	(2,450)	Nonfirm transmission	11/18/97
		Increase	11/26/97	11/1/97	PD-FCT6 *		Transmission	11/18/97
WAPA-68	Parker-Davis	Decrease	3/21/95	10/1/95	PD-5	(\$6,222)	Power	9/29/95
		Increase	3/21/95	10/1/95	PD-FT5		Transmission	9/29/95
		Increase	3/21/95	10/1/95	PD-NFT5	— \$1,791	Nonfirm transmission	9/29/95
		Increase	3/21/95	10/1/95	PD-FCT5		Transmission	9/29/95
WAPA-79	Pick-Sloan Eastern Division	Rate order for open access transmission rate adjustment	9/15/97	9/1/98	UGP-AS1, 2, 3, 4, 5, and 6, UGP-FPT1, UGP-NFPT1, UGP-NT1			8/3/98
WAPA-83	Pick-Sloan Eastern Division	Firm power rate extension	8/18/98	2/1/99	P-SED-F6	N/A	— ¹	N/A
		Firm peaking power extension	8/18/98	2/1/99	P-SED-FP6	N/A	— ¹	N/A
WAPA-78	SLCA/IP Colorado River Storage Project	Decrease	6/25/97	4/1/98	SLIP-F6	(12,000)	Power	3/27/98
		Increase	6/25/97	4/1/98	SP-PTP5	8,000	Point-to-point transmission	3/27/98
		Increase	6/25/97	4/1/98	SP-NFT4	— ¹	Nonfirm transmission	3/27/98
		New		4/1/98	SP-NW1	— ¹	Network transmission	3/27/98
				4/1/98	SP-SD1	— ¹	Scheduling and dispatch service	3/27/98
				4/1/98	SP-EI1		Energy imbalance service	3/27/98

Continued on the next page.

Rate Actions Summary, cont.

Rate order no.	Project	Type of rate action	Date of notice of public participation	Effective date of rate (first day of first full billing period)	Rate schedule designation	Projected annual incremental \$(000)	Notes	Date submitted to FERC
WAPA-78, cont.				4/1/98	SP-RS1		Reactive supply service	3/27/98
				4/1/98	SP-FR1		Regulation and frequency response service	3/27/98
				4/1/98	SP-SSR1		Spinning and supplemental reserve service	3/27/98
WAPA-81	Amistad/Falcon	Extension	N/A	6/8/98	N/A	N/A	Rate formula extension	N/A

* There was an overall decrease in the Annual Revenue Requirement, but the rate increased due to a decrease in firm transmission sales used to calculate the rate.

† Revenue from nonfirm transmission and all ancillary services was not projected in the rate case as these are sold on an as available basis only.

Marketing Plan Summary

Project	Expiration date	Project	Expiration date
Boulder Canyon	Sept. 30, 2017	Pick-Sloan Missouri Basin Program — Eastern Division	Dec. 31, 2020
Central Valley	Dec. 31, 2004	Provo River	Sept. 30, 2008
Falcon-Amistad	June 8, 2033	Salt Lake City Area Integrated Projects	Sept. 30, 2004
Loveland Area Projects	Sept. 30, 2004	Washoe	Sept. 30, 2000
Parker-Davis	Sept. 30, 2008		

Summary of Current Wholesale Rate Schedule Provisions

Monthly rate

Project	Rate schedule designation	Capacity charge \$/kW of billing demand	Energy charge not in excess of delivery obligations (mills/kWh)	Effective date	Annual composite rate
Boulder Canyon Project	BCP-F5	\$0.89. Rate year capacity dollar divided by 12, multiplied by the contractor's contingent capacity percentage.	4.933 mills/kWh. A Lower Colorado River Basin Development Fund charge of 4.5 mills/kWh applies to purchases in Arizona, and 2.5 mills/kWh to purchases in California and Nevada.	10/1/97	8.51 mills/kWh (without LCRBDF)
Central Valley Project	CV-F9	5.03	10.31 mills/kWh; AERA 2.86 mills/kWh	10/1/97	20.95 mills/kWh
Loveland Area Projects	L-F4 (2nd Step)	2.85	10.85 mills/kWh	10/1/94	21.70 mills/kWh
Parker Davis Project	PD-F6	0.56-capacity 1.08-transmission	1.29 mills/kWh	11/1/97	5.07 mills/kWh
Pick-Sloan Missouri Basin Program— Eastern Division	P-SED-F6	3.20	8.32 mills/kWh for all energy 3.38 mills/kWh for all energy above 60% load factor	10/1/94	14.23 mills/kWh
Salt Lake City Area Integrated Projects	SLIP-F6	3.44	8.10 mills/kWh	4/1/98	17.57 mills/kWh

Transmission and Ancillary Services Rate Provisions

Project	Rate schedule designation	Rate
Central Valley Projects	CV-FT3, Firm transmission service	\$0.51 kW-mo.
	CV-SPR1, Spinning reserve service	\$1.35 kW/mo.
	CV-SUR1, Supplemental reserve service	\$1.27 kW/mo.
	CV-RFS1, Regulation and frequency response service	\$1.48 kW/mo.
	CV-NWT1, Network transmission service	Load ratio share times 1/12 of annual network transmission revenue requirement.
	CV-EID1, Energy imbalance service	Within deviation band: net deviations at the end of the month are exchanged with like hours of energy, or charged at the CVP firm power rate then in effect. Outside deviation band: positive deviations, no charge; negative on-peak deviations are the greater of 3 times the CVP firm power rate or any additional cost. Negative off-peak deviations are the CVP firm power rate or any additional cost.
Loveland Area Projects (4/1/98 - 9/30/98)	L-NT1, Network integration transmission service (First Step)	Load ratio share of 1/12 of the revenue requirement of \$31,555,162
	L-FPT1, Firm transmission service (first step)	\$2.32/kW-month or \$27.84/kW-year
	L-NFPT1, Nonfirm transmission service (first step)	3.33 mills/kWh (Maximum)
	L-AS1, Scheduling, system control and dispatch service	\$25.71/schedule/day
	L-AS2, Reactive supply and voltage control from generation sources service	\$0.112/kW-month
	L-AS3, Regulation and frequency response service	\$0.147/kW-month
	L-AS4, Energy imbalance service	Under delivery outside 6% bandwidth, 100 mills/kWh penalty. Over delivery outside 6% bandwidth, 50 percent credit of average nonfirm purchase price for the hour.
	L-AS5, Operating reserve - Spinning reserve service L-AS6, Operating reserve - Supplemental reserve Service	Pass-through cost Pass-through cost
Loveland Area Projects (10/1/97 - 3/31/98) 1997	L-T3, Firm transmission service	2.6 mills/kWh or \$22.52/kW-year (\$1.88/kW-month)
	L-T4, Nonfirm transmission service	2.6 mills per kWh
Pacific Intertie	INT-FT3, firm point-to-point transmission; 230/345 kV transmission system	\$12 per kW per year (\$1.00 per kW per month)
	INT-FT3, short-term firm point-to-point transmission; 230/345-kV transmission system	Yearly \$12.00 per kW
		Monthly \$1.00 per kW
		Weekly \$0.23 per kW
		Daily \$0.03 per kW
		Hourly \$0.00137 per kW

Continued on the next page.

Transmission and Ancillary Services Rate Provisions, cont.

Project	Rate schedule designation	Rate
Parker-Davis Project (11/97 - 9/98)	PD-FT6, Firm transmission service	\$1.08 per kW per month
(10/97)	PD-FT5, Firm transmission service	\$11.51 per kW per year (\$0.96 per kW per month)
Pick-Sloan Missouri Basin Program—Eastern Division		
1998	Joint transmission system	\$26.27/kw/year (applicable to all JTS users excluding 200 MW associated with base use charge)
(10/97 - 8/98)		\$8.78/kW/year base use charge (applicable to only 200 MW of the Leland Olds plant)
		\$5.25/kW/year for transmission of peaking service
1998	Integrated system network transmission rate	\$3.15/KW-Mo.
(10/97 - 8/98)	Integrated system firm point-to-point rate	\$2.71/KW-Mo
	Integrated system nonfirm point-to-point rate	3.71 m/kWh
	Regulation and frequency response service	.22 m/kWh
	Operating Reserve - Spinning reserve service	.32 m/kWh
	Operating Reserve - Supplemental reserve service	.32 m/kWh
	Scheduling, system control and dispatch service	\$53.35/Schedule/Day
	Reactive supply and voltage control	.25 m/kWh
1998	Joint transmission system	None
(9/1/98 - 9/30/98)		
1998	Integrated system network transmission rate	Load Ratio Share of Annual Revenue Requirements of \$95,725,420
(9/1/98 - 9/30/98)	Integrated system firm point-to-point rate	\$2.87/KW-Mo
	Integrated system nonfirm point-to-point rate	3.93 m/kWh
	Regulation and frequency response service	.05KW-Mo
	Operating reserve - Spinning reserve service	.12/KW-Mo
	Operating reserve - Supplemental reserve service	.12/KW-Mo
	Scheduling, system control and dispatch service	\$46.06/Schedule/Day
	Reactive supply and voltage control	.07/KW-Mo
Salt Lake City Area Integrated Projects		
(4/1/98 - 3/31/98)	SP-PTP5, Firm point-to-point transmission service	\$2.23 per kW per month.
	SP-NFT4, Nonfirm point-to-point transmission service	Mutually agreed by Western and purchasing entity up to 3.05 mills/kWh.
	SP-SDI, Scheduling system control and dispatch	Included in transmission rate. RMR and DSW tariffs apply for nontransmission, accordingly.
	SP-RSI, Reactive and voltage control	RMR and DSW tariffs apply, accordingly.
	SP-EII, Energy imbalance	Costs + 10%.
	SP-FRI, Regulation and frequency response	\$3.44 per kW per month if available, or costs plus 10%.
	SP-SSRI, Spinning and supplemental reserves	Costs plus 10%. Firm power rate if available.



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