



WEST POWER FUNDAMENTALS BRIEFING

7/10/2001



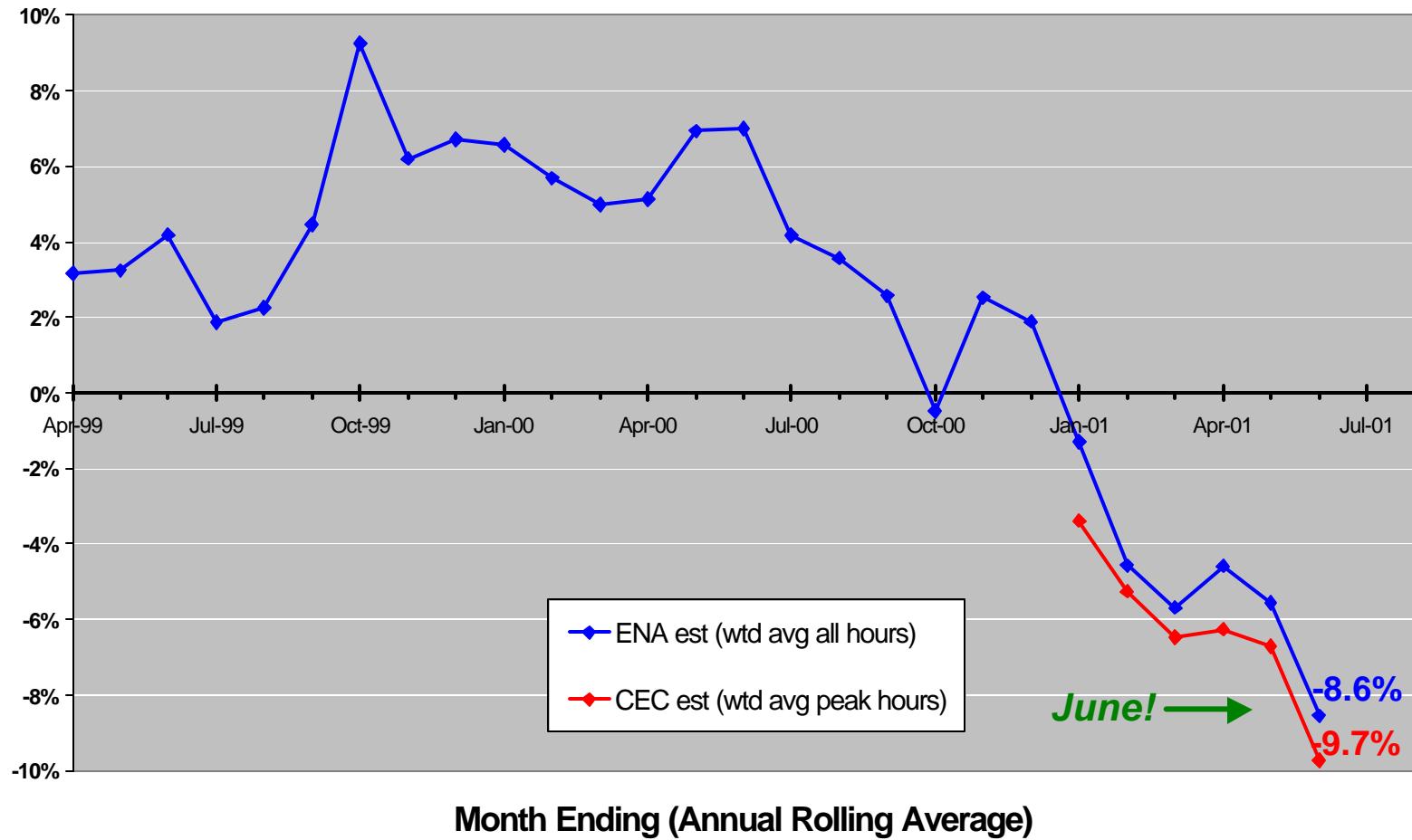
Next Two Weeks Are Tightest of Season:

PNW, DSW Availability High

California Loads Low

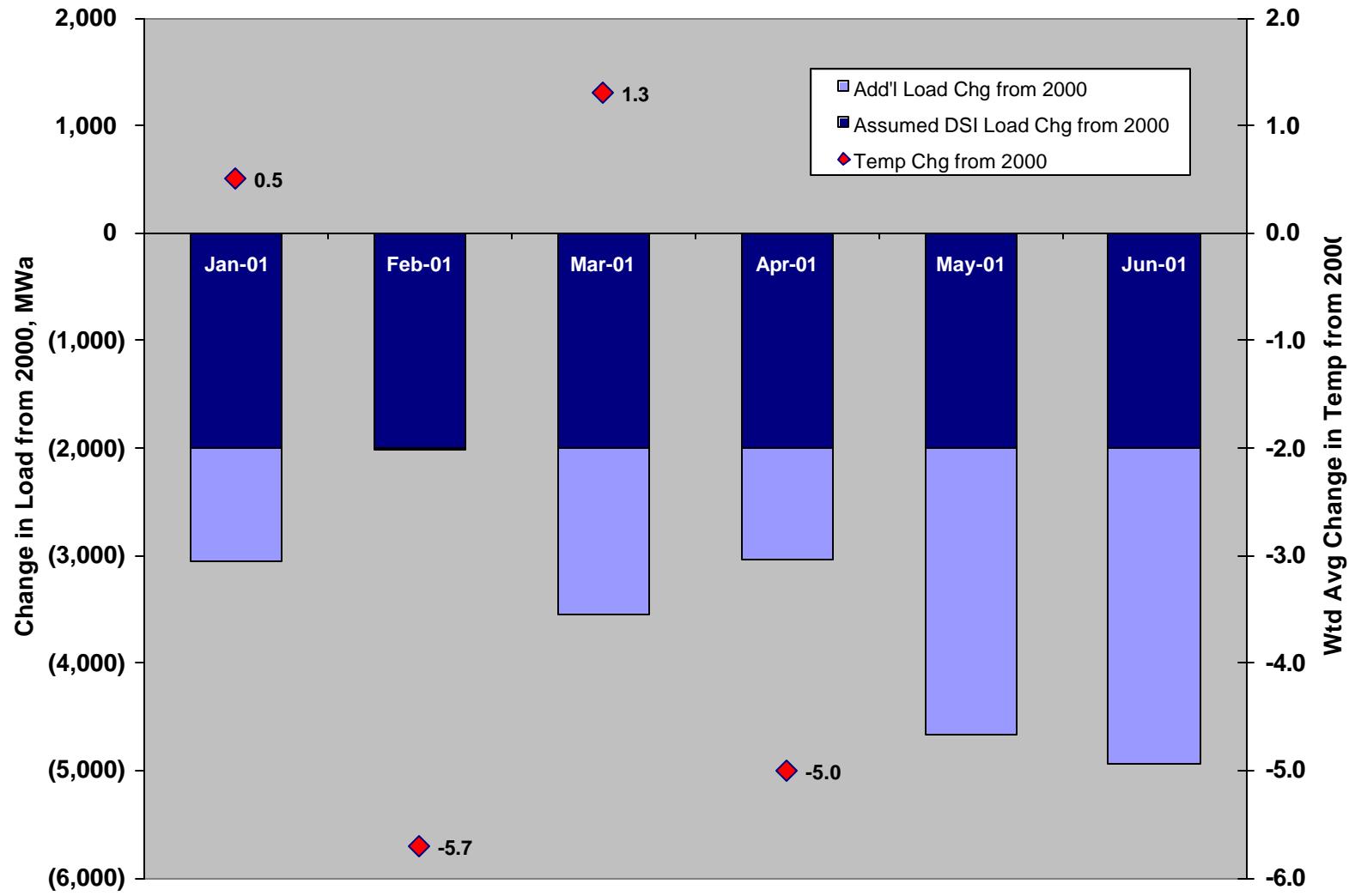
Date		PNW	DSW	CA	RM	All Regions
Tue Jul 10	Load	(30,260)	(15,566)	(36,842)	(6,825)	(89,493)
	Hydro Generation	11,677	1,848	5,489	351	19,365
	Thermal Outages	(644)	(493)	(2,452)	(257)	(3,846)
Mon Jul 16	Load	296	(528)	(1,377)	(265)	(1,874)
	Hydro Generation	227	0	0	0	227
	Thermal Outages	(903)	(602)	(498)	(80)	(2,084)
	Total	(380)	(1,131)	(1,875)	(345)	(3,731)
Mon Jul 23	Load	(205)	(506)	(1,311)	(115)	(2,137)
	Hydro Generation	265	0	0	0	265
	Thermal Outages	(936)	(601)	(347)	(73)	(1,956)
	Total	(876)	(1,108)	(1,658)	(187)	(3,829)
Mon Jul 30	Load	77	(250)	(270)	69	(374)
	Hydro Generation	191	21	(351)	(43)	(183)
	Thermal Outages	(569)	(587)	(55)	(66)	(1,277)
	Total	(302)	(817)	(676)	(40)	(1,835)
Mon Aug 6	Load	205	(129)	(714)	69	(569)
	Hydro Generation	154	31	(527)	(65)	(407)
	Thermal Outages	(484)	(581)	185	(67)	(947)
	Total	(126)	(679)	(1,056)	(63)	(1,924)
Mon Aug 13	Load	698	177	201	116	1,191
	Hydro Generation	(101)	31	(527)	(65)	(662)
	Thermal Outages	(453)	(566)	293	(64)	(790)
	Total	144	(358)	(33)	(14)	(260)
Mon Aug 20	Load	831	108	338	128	1,404
	Hydro Generation	(356)	31	(527)	(65)	(917)
	Thermal Outages	(421)	(569)	300	(64)	(754)
	Total	54	(430)	111	(1)	(266)

CAISO Annual Load Growth Adjusted for Temperature and Time of Use

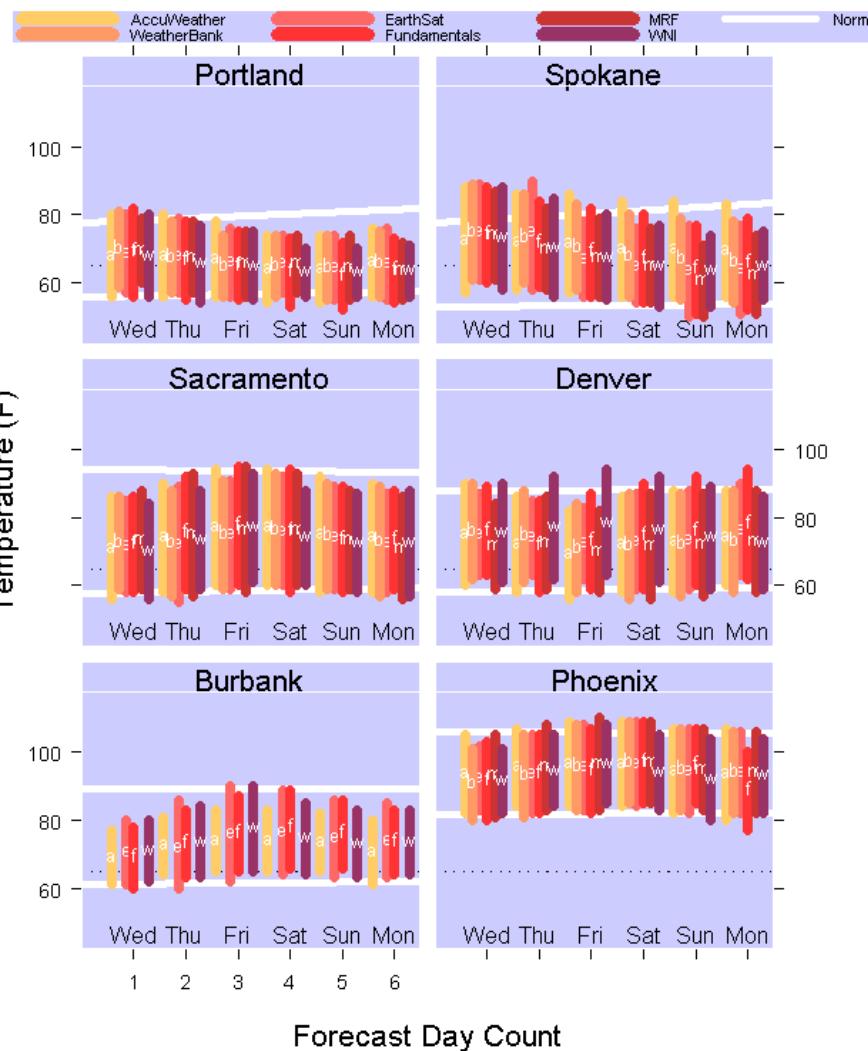


NWPP Load Reduction

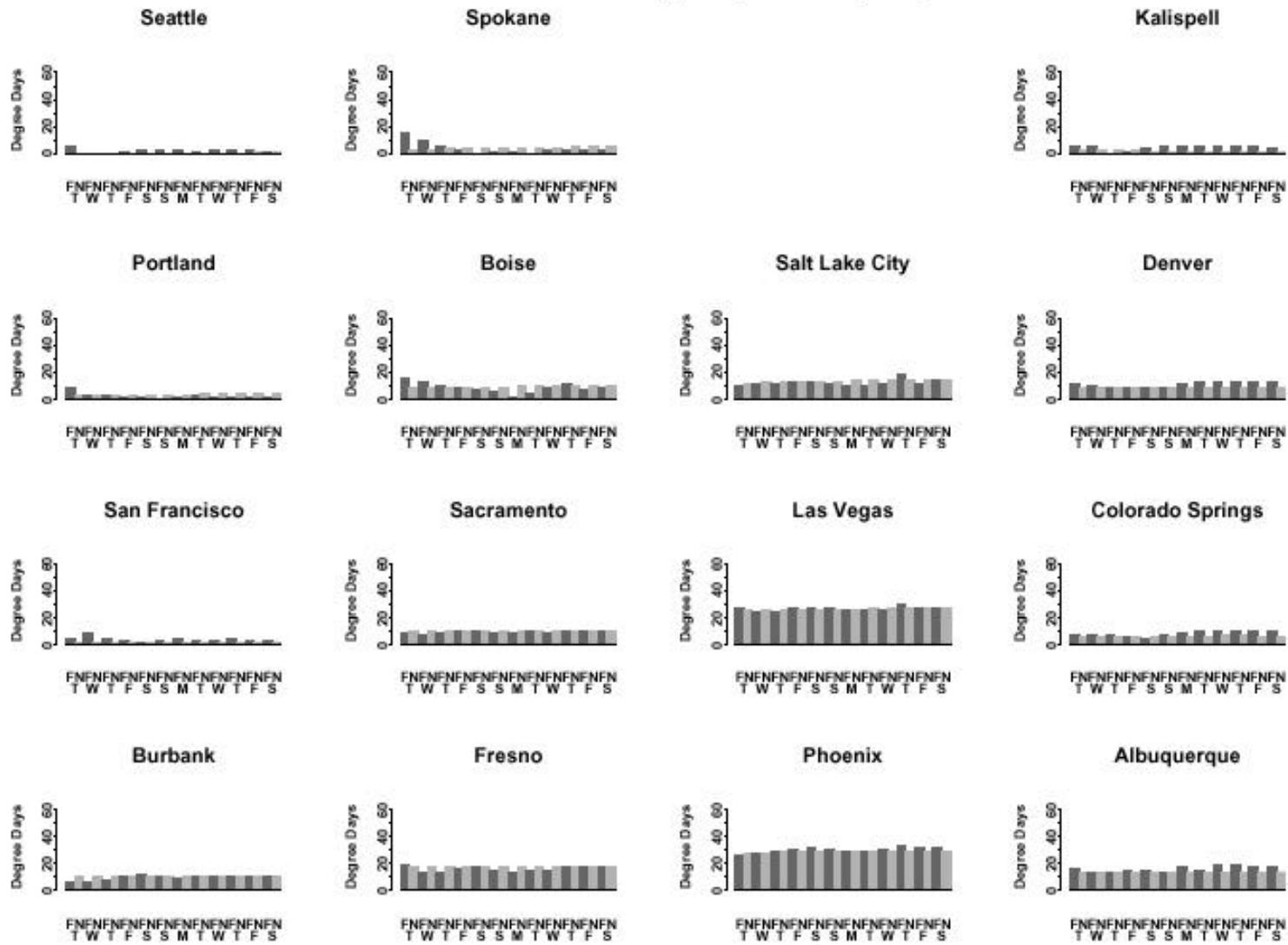
Change from 2000, Unadjusted for Temp, etc.



Temperature Forecasts Reported Tue July 10 2001

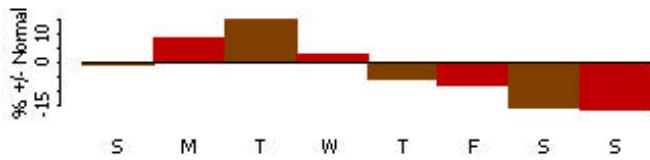


Earth Satellite Forecast & Normal Degree Days: Period Beginning Jul 10

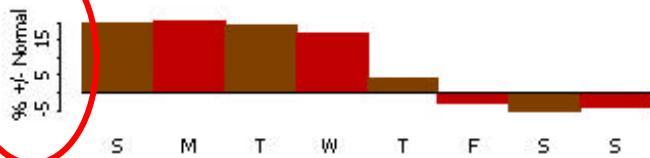


CNG Regional Energy Indices
For Week Beginning 07/08/01

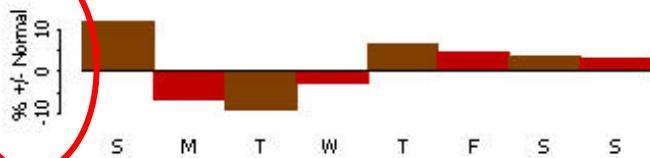
United States



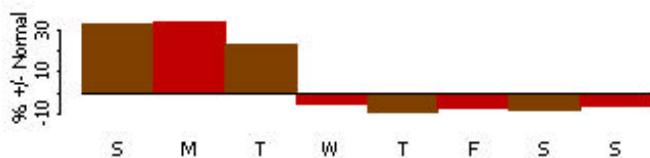
Pacific



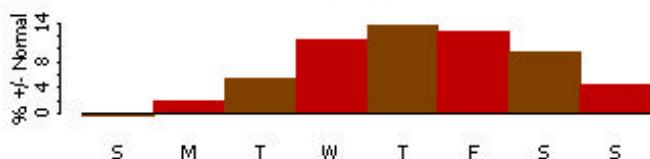
Rocky Mountain



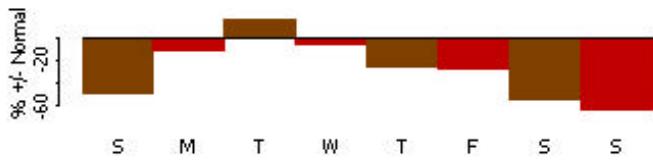
Great Plains



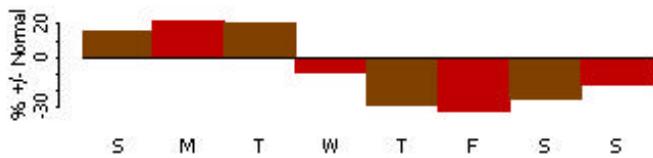
Southwest



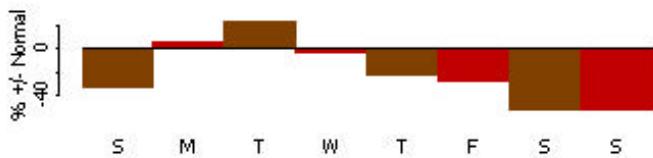
New England



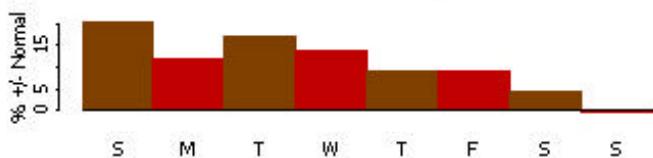
Great Lakes



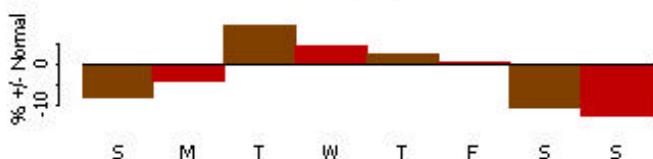
Mid Atlantic



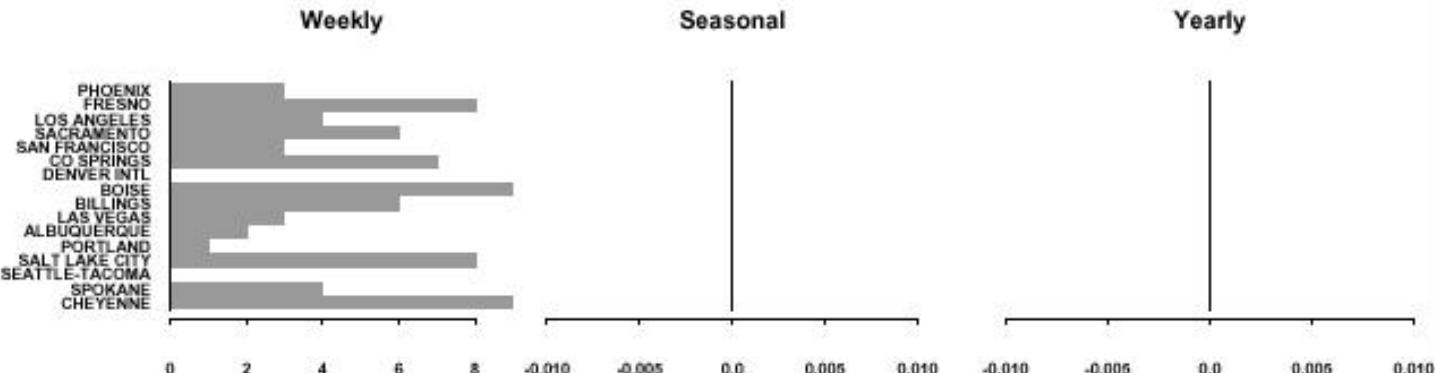
Lower Mississippi



South Atlantic



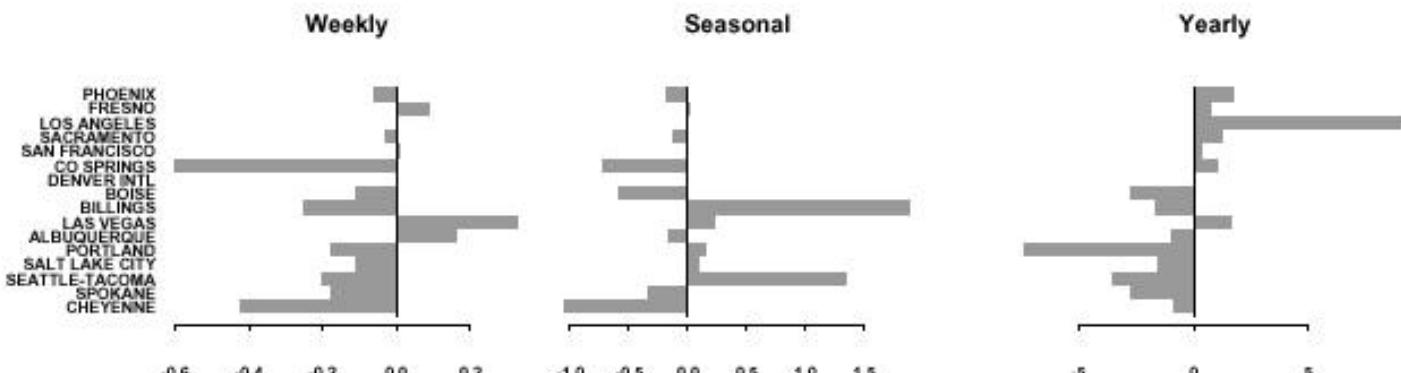
NWS Temperature & Precipitation Summaries for Week Ending 7/7/01



Average Temperature Departure
From Normal, Deg. F

Cumulative
Departure, Deg. F

Cumulative
Departure, Deg. F



Precipitation Departure From
Normal, Inches

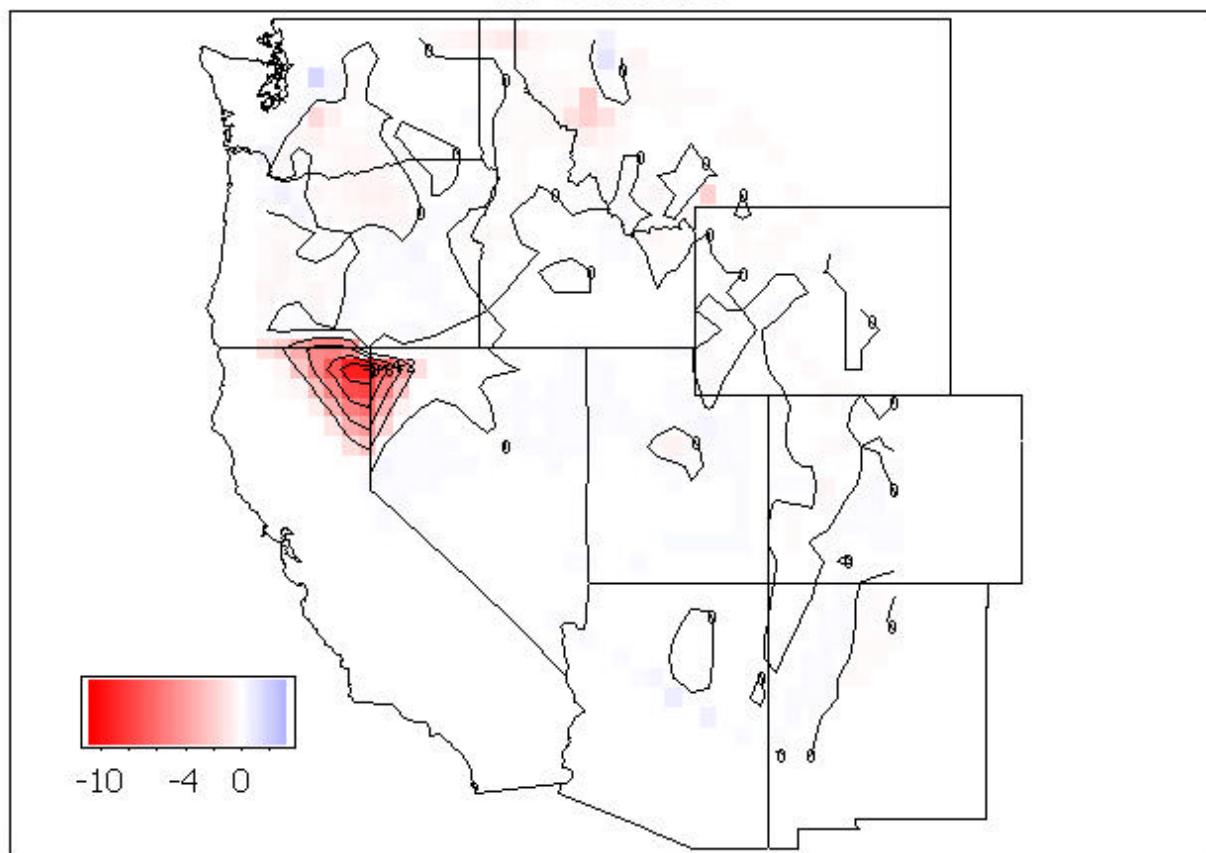
Precipitation Departure From
Normal, Inches

Precipitation Departure From
Normal, Inches

Hydromet Forecast

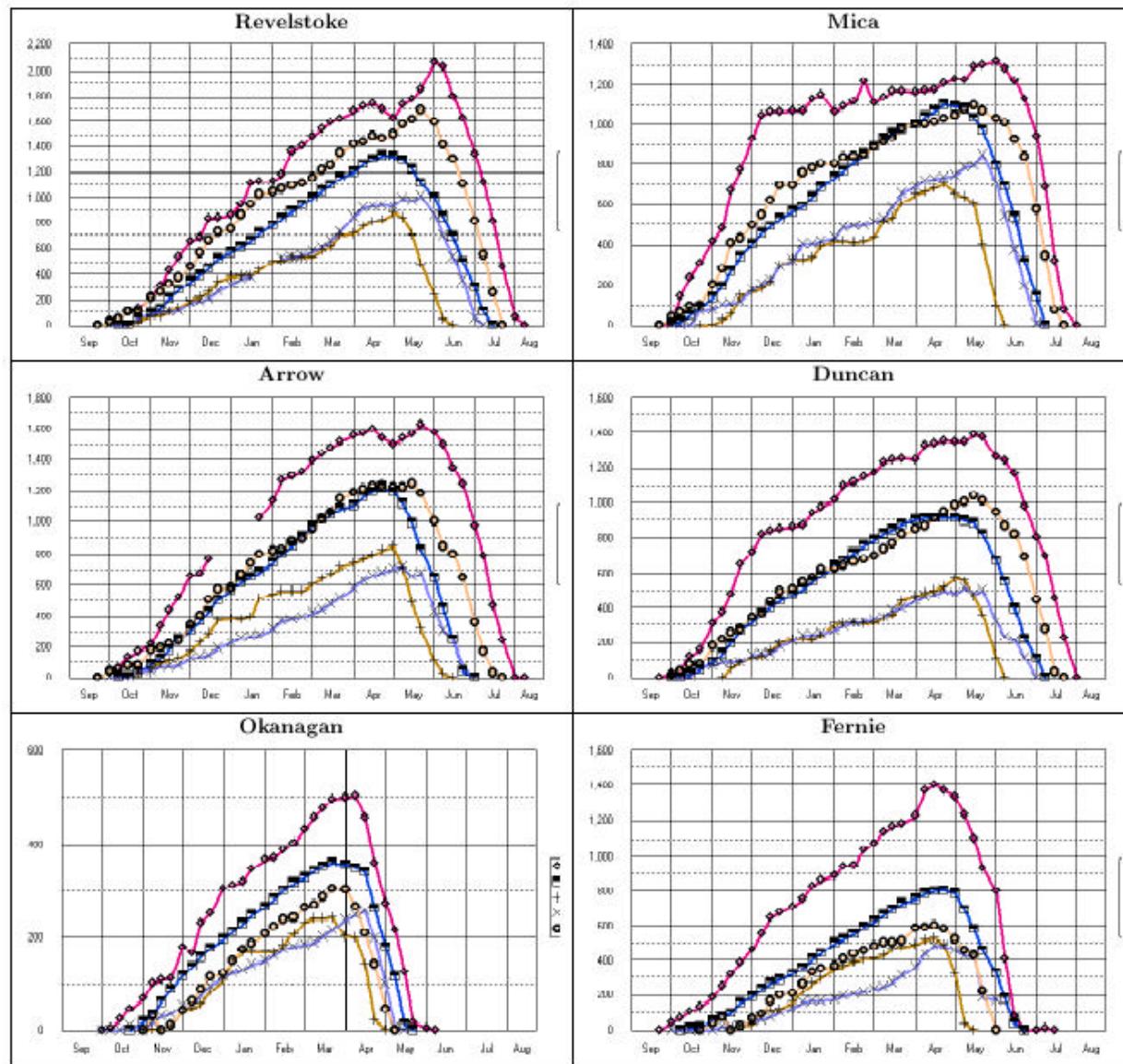
<Out 'til October>

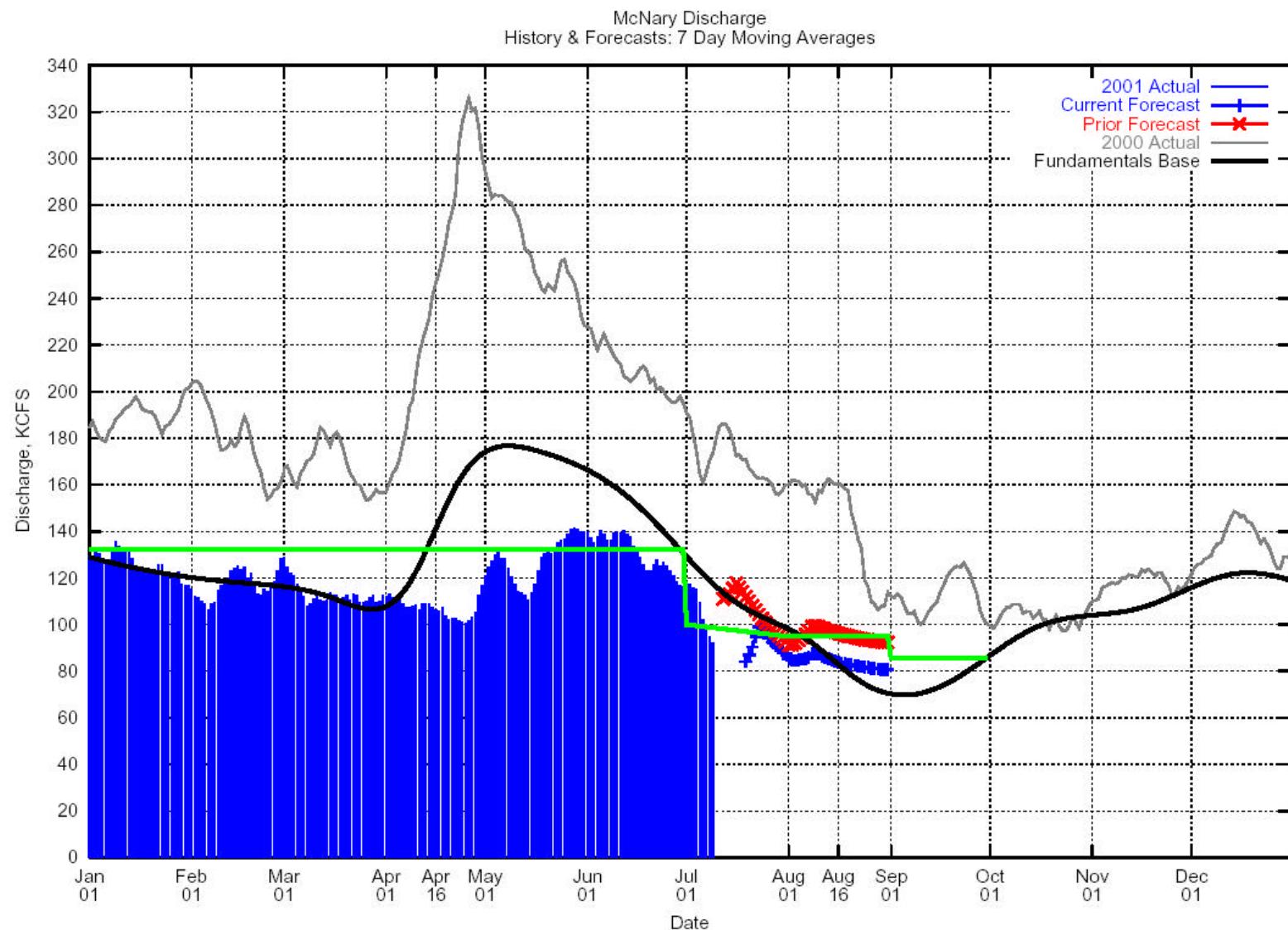
SNOTEL Snow Water Equivalent Change All Stations



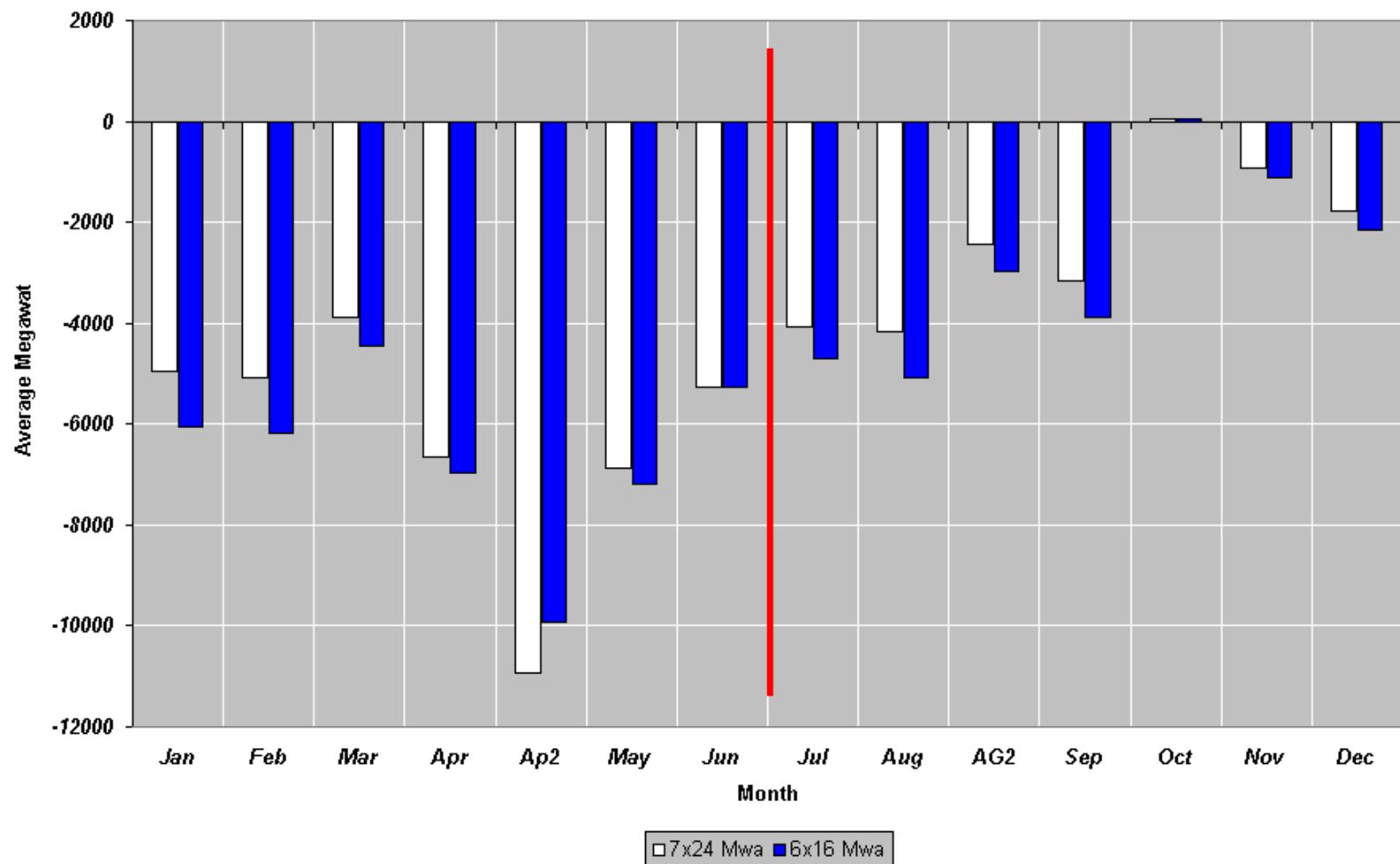
Tim Heizendorfer : Tue Jul 10 05:12:36 2001

British Columbia Snow Depth (SWE mm)

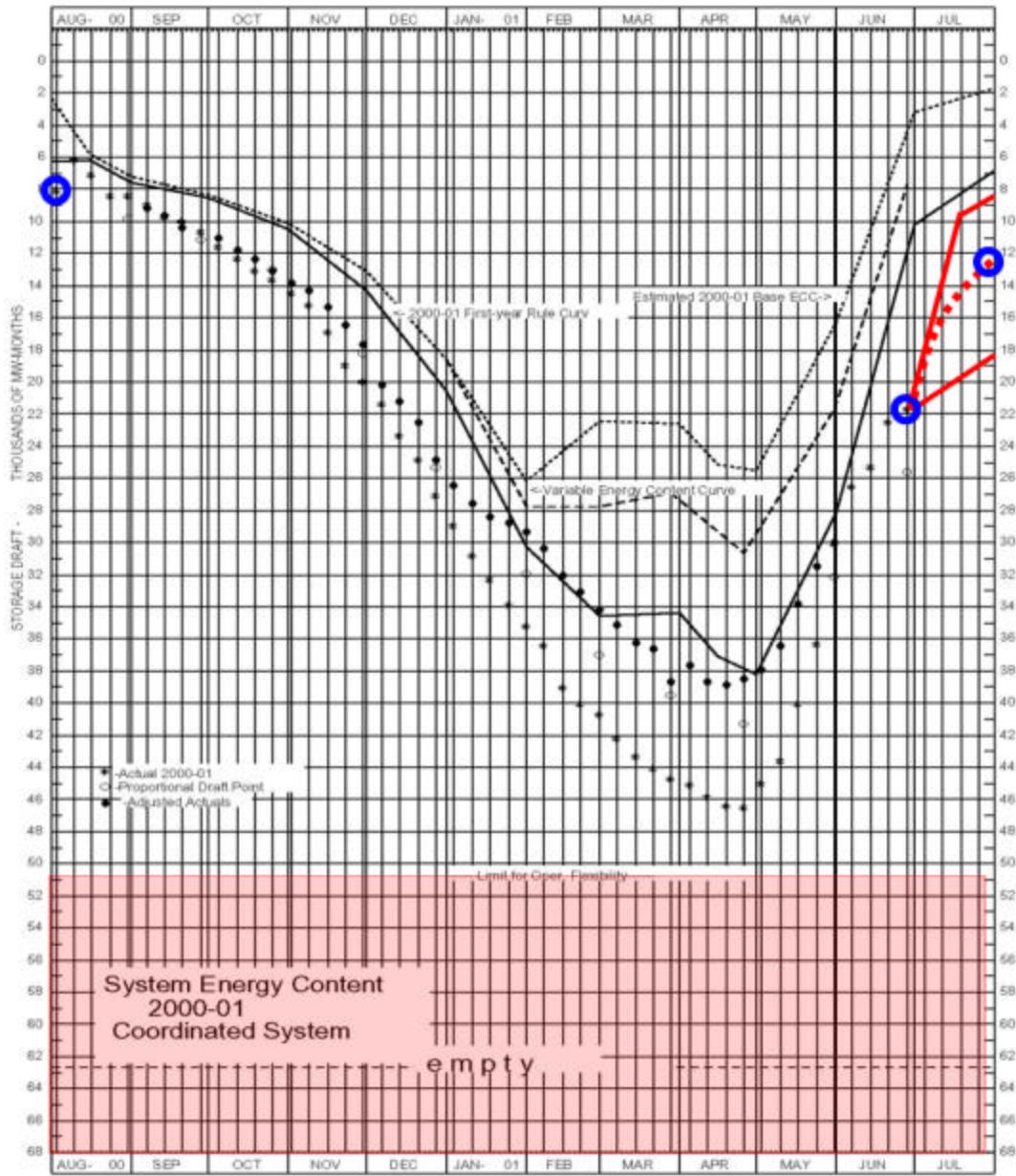




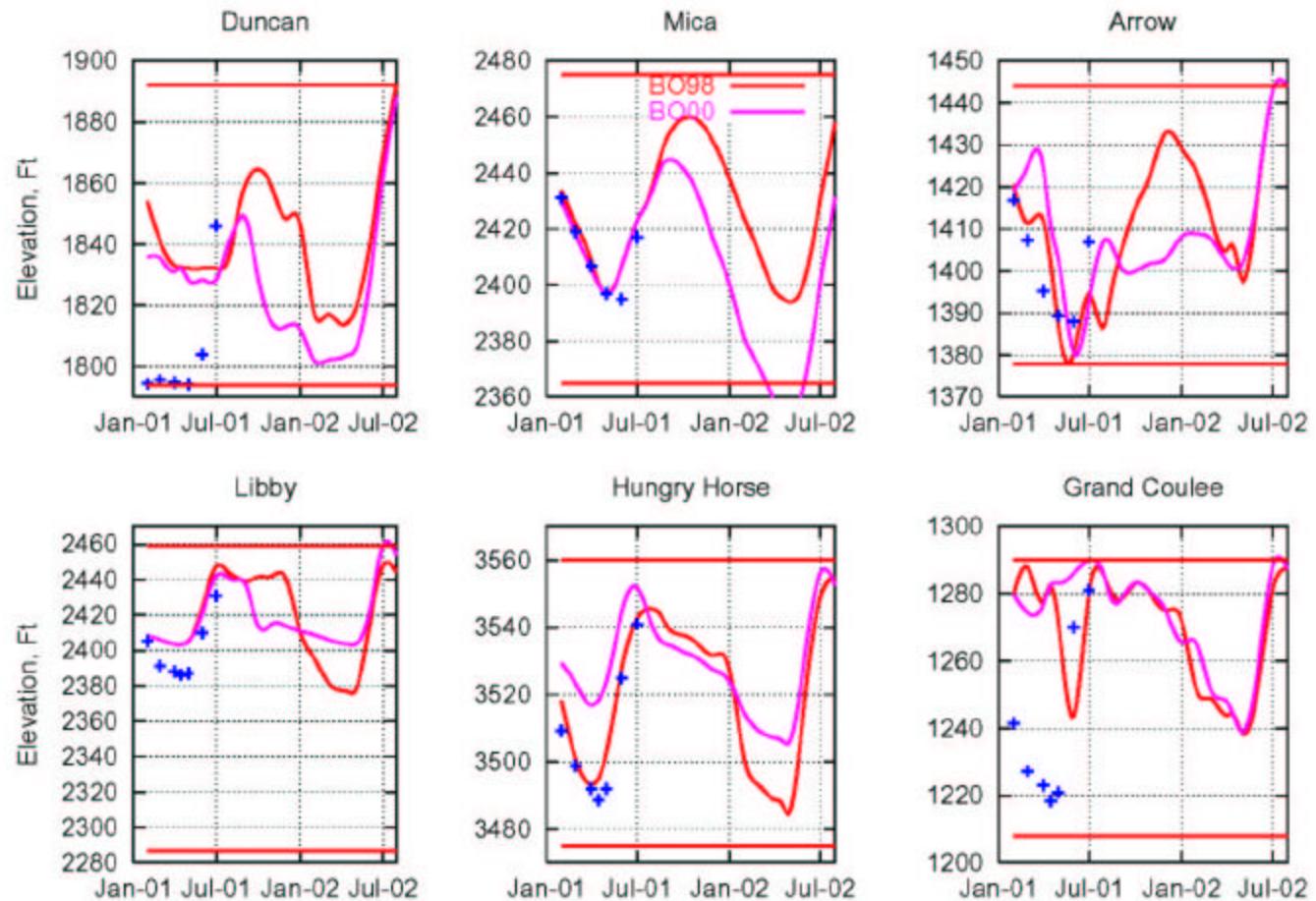
Pacific Northwest Hydro Production: 2001 vs 2000

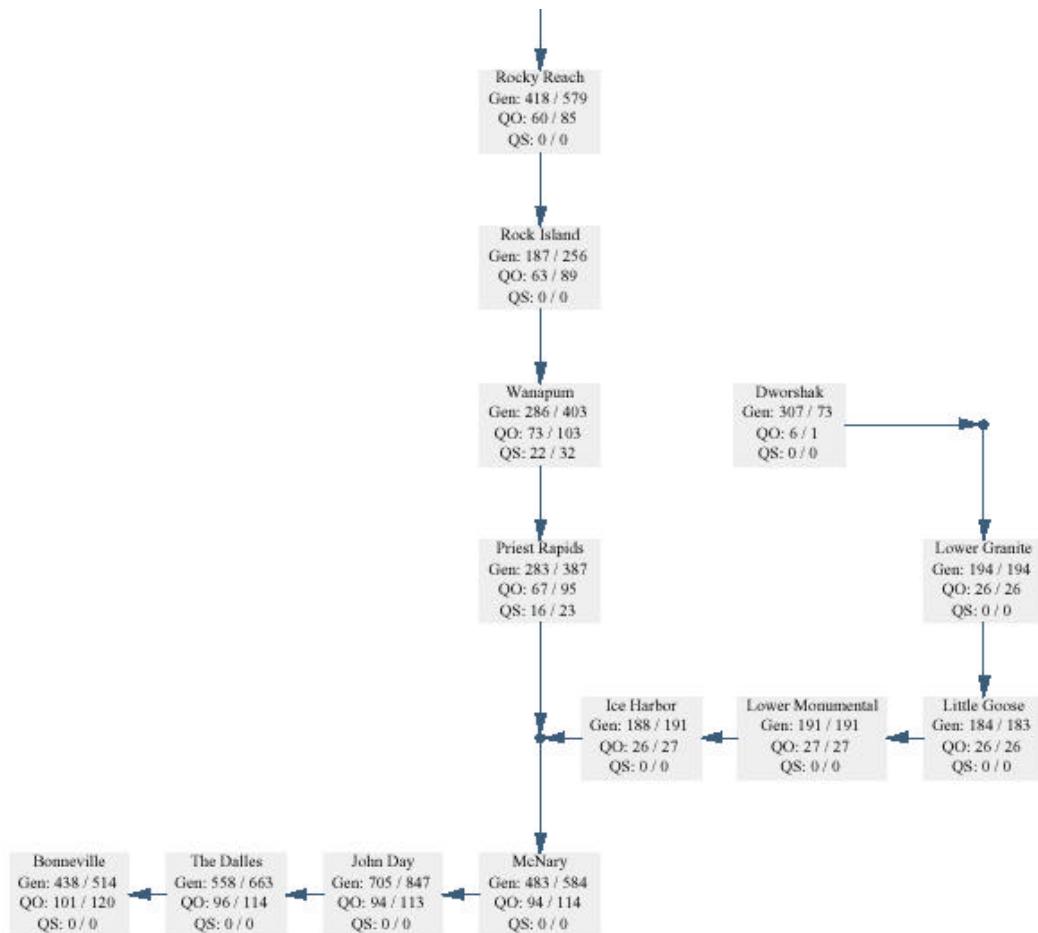


Northwest: 2001-02 Will Open 12,000 MW-Mo Low



Which Reservoirs Remain Low?



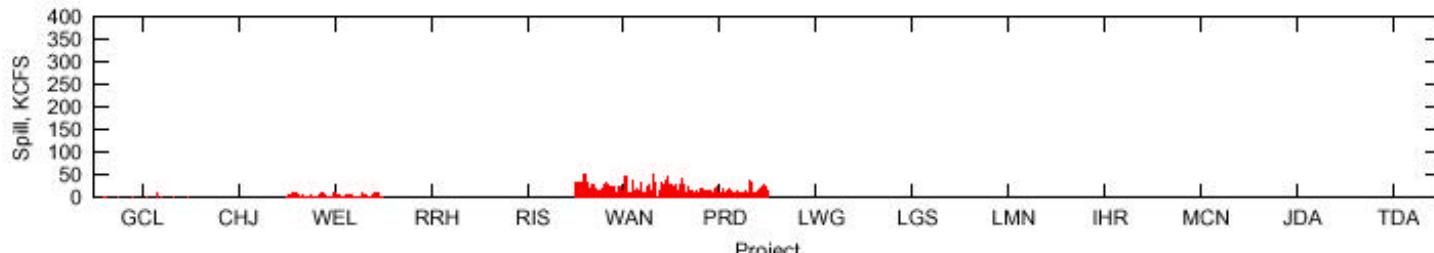


Columbia River and Snake River
Hydroelectric Plant Operations
7 Day Averages
July 10, 2001

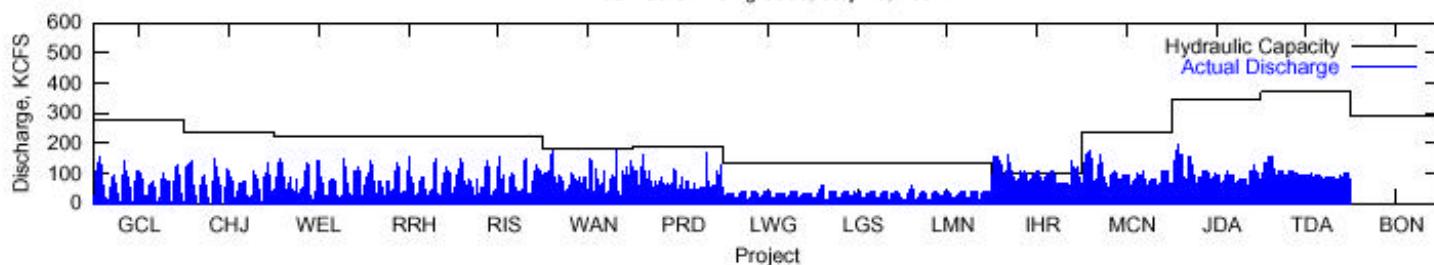
Confidential

Columbia & Lower Snake River Hourly Operations

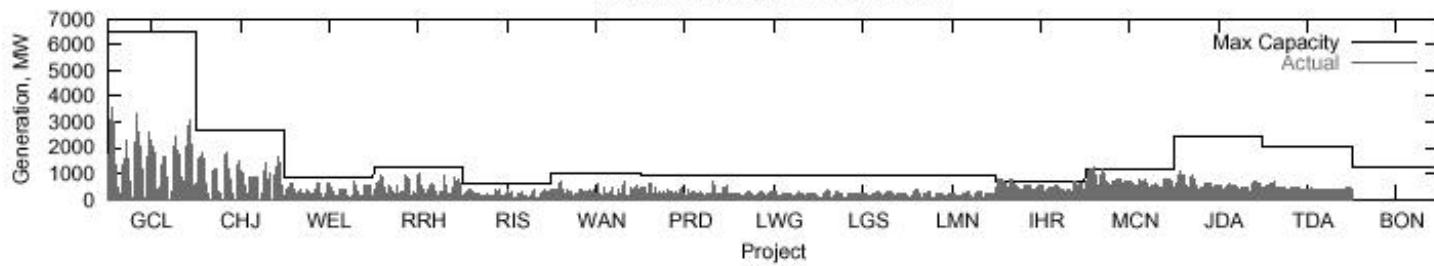
Spill
168 Hours Ending 0300, July 10, 2001



Total Discharge
168 Hours Ending 0300, July 10, 2001



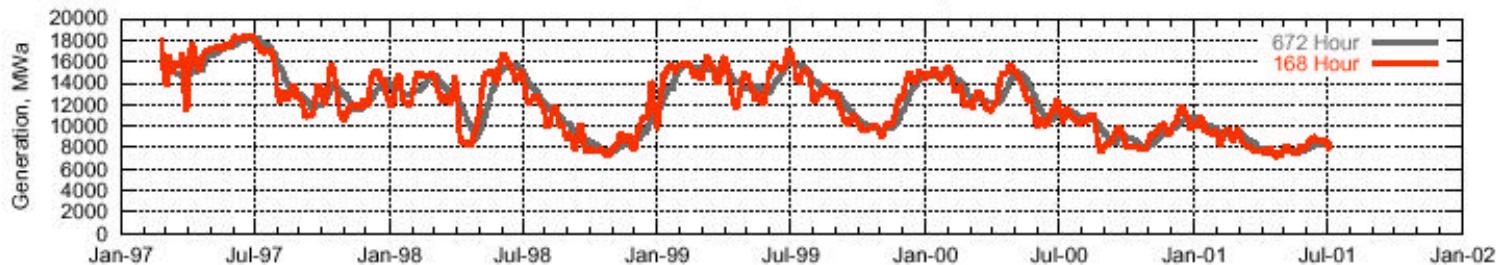
Generation
168 Hours Ending 0300, July 10, 2001



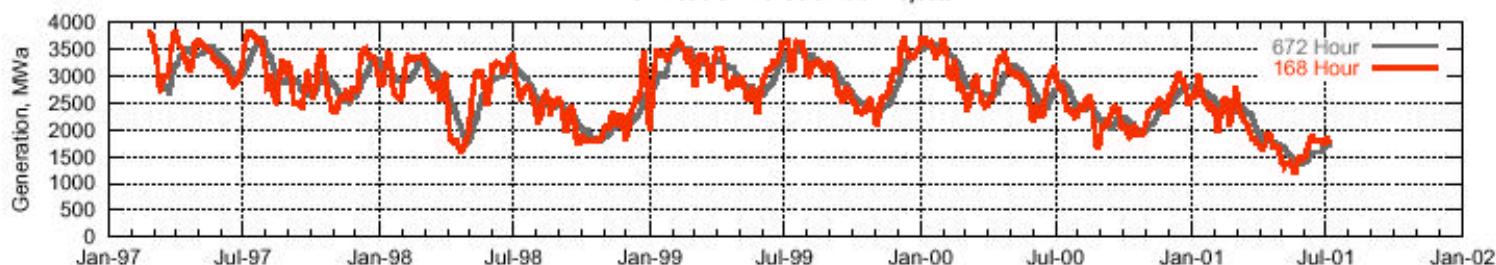
Confidential

Hourly Moving Average Hydro Generation
1997 - Present

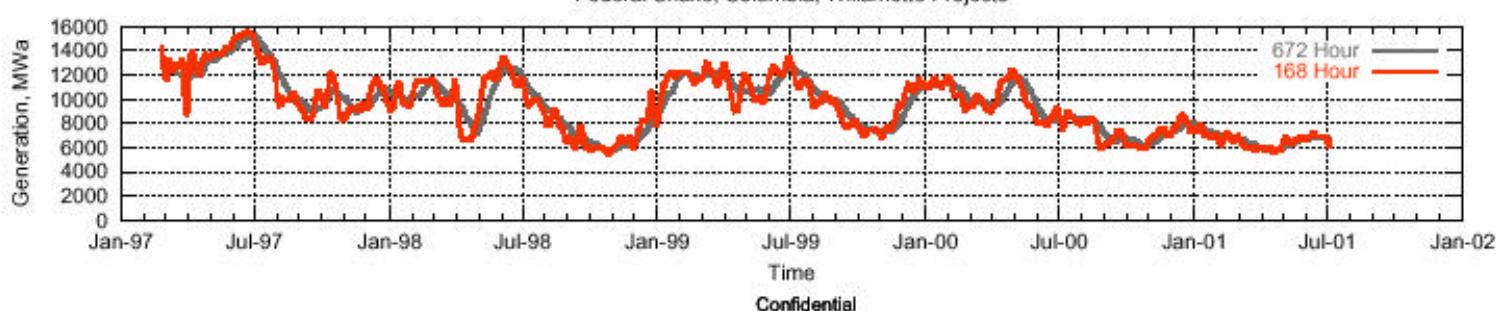
All Snake, Columbia, Willamette Projects



Non-Federal Mid-Columbia Projects



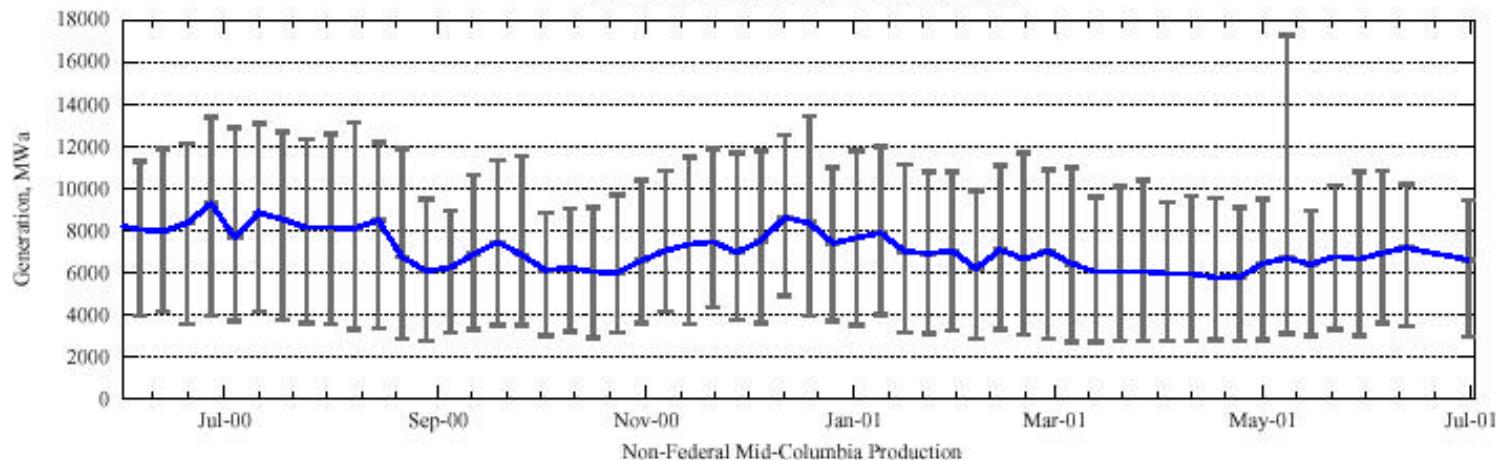
Federal Snake, Columbia, Willamette Projects



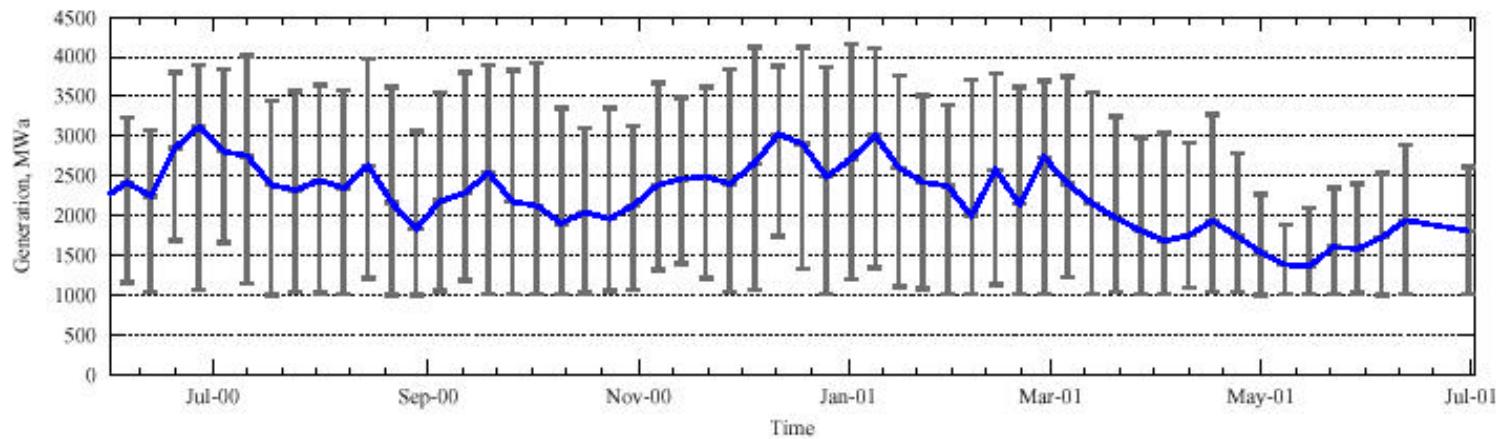
Time
Confidential

Weekly High / Low / Average Hydro Generation
Last 13 Months

Federal Snake, Columbia, Willamette Production

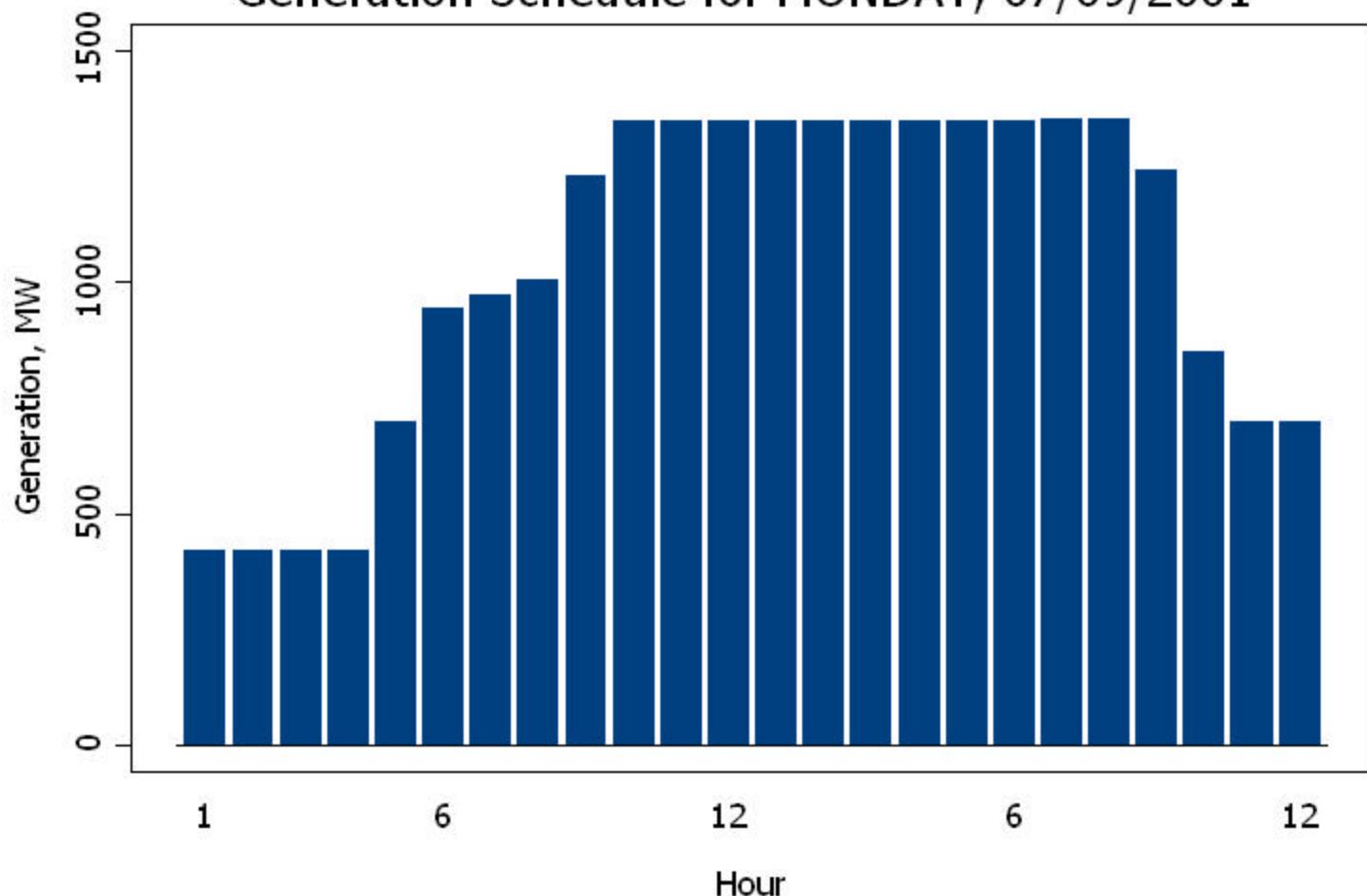


Non-Federal Mid-Columbia Production

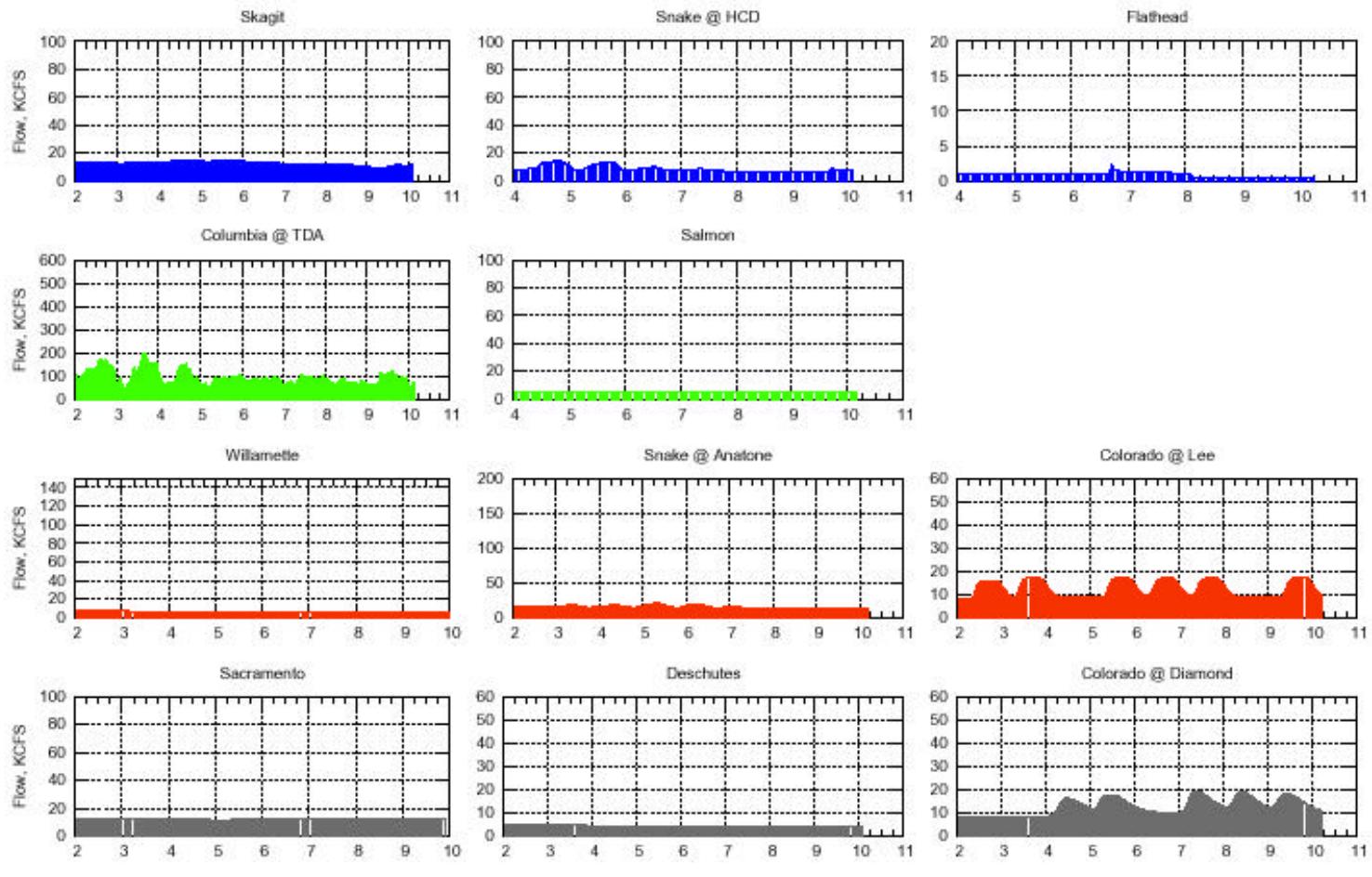


Time
Confidential

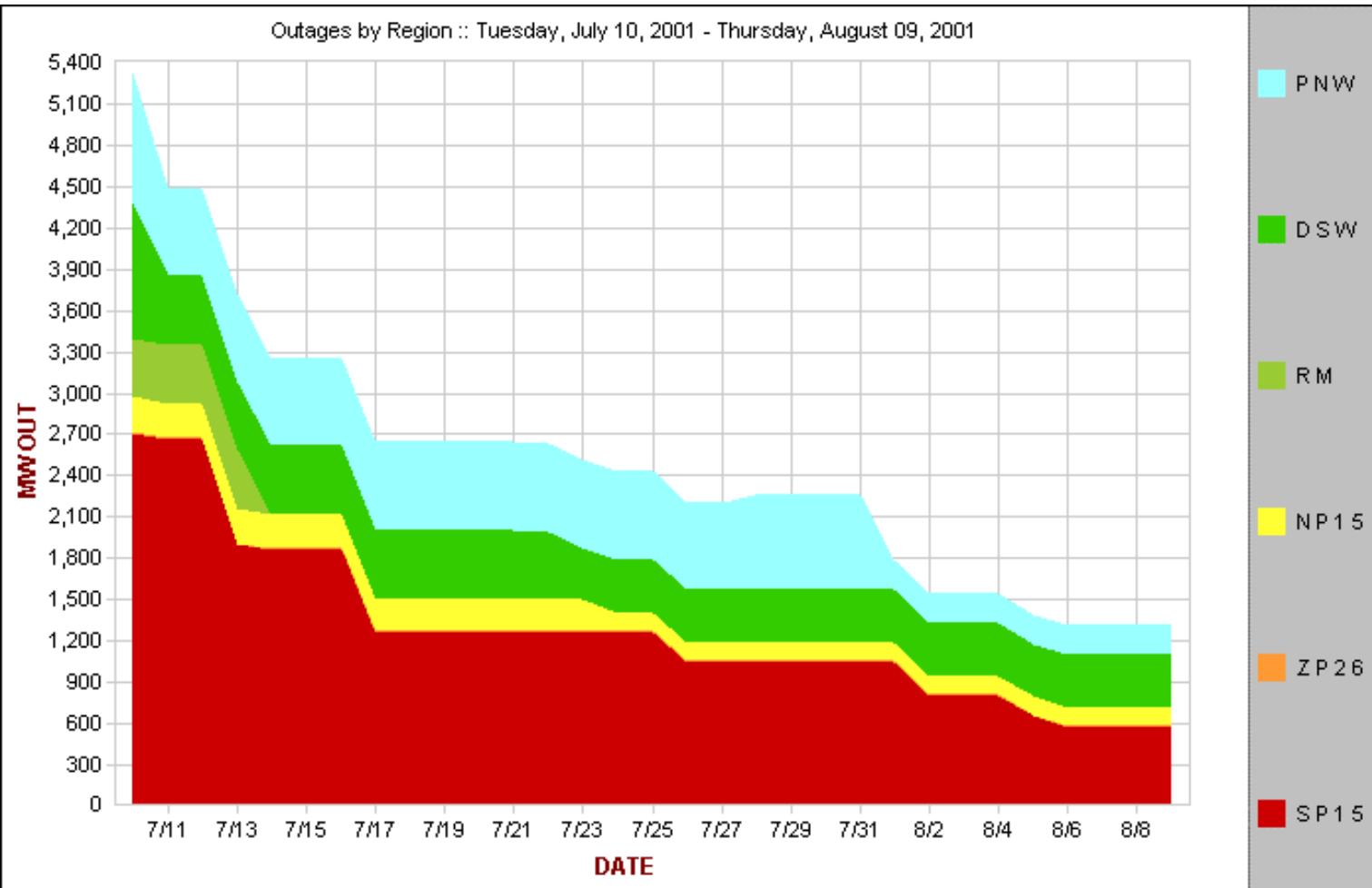
Central Valley Project Generation Schedule for MONDAY, 07/09/2001

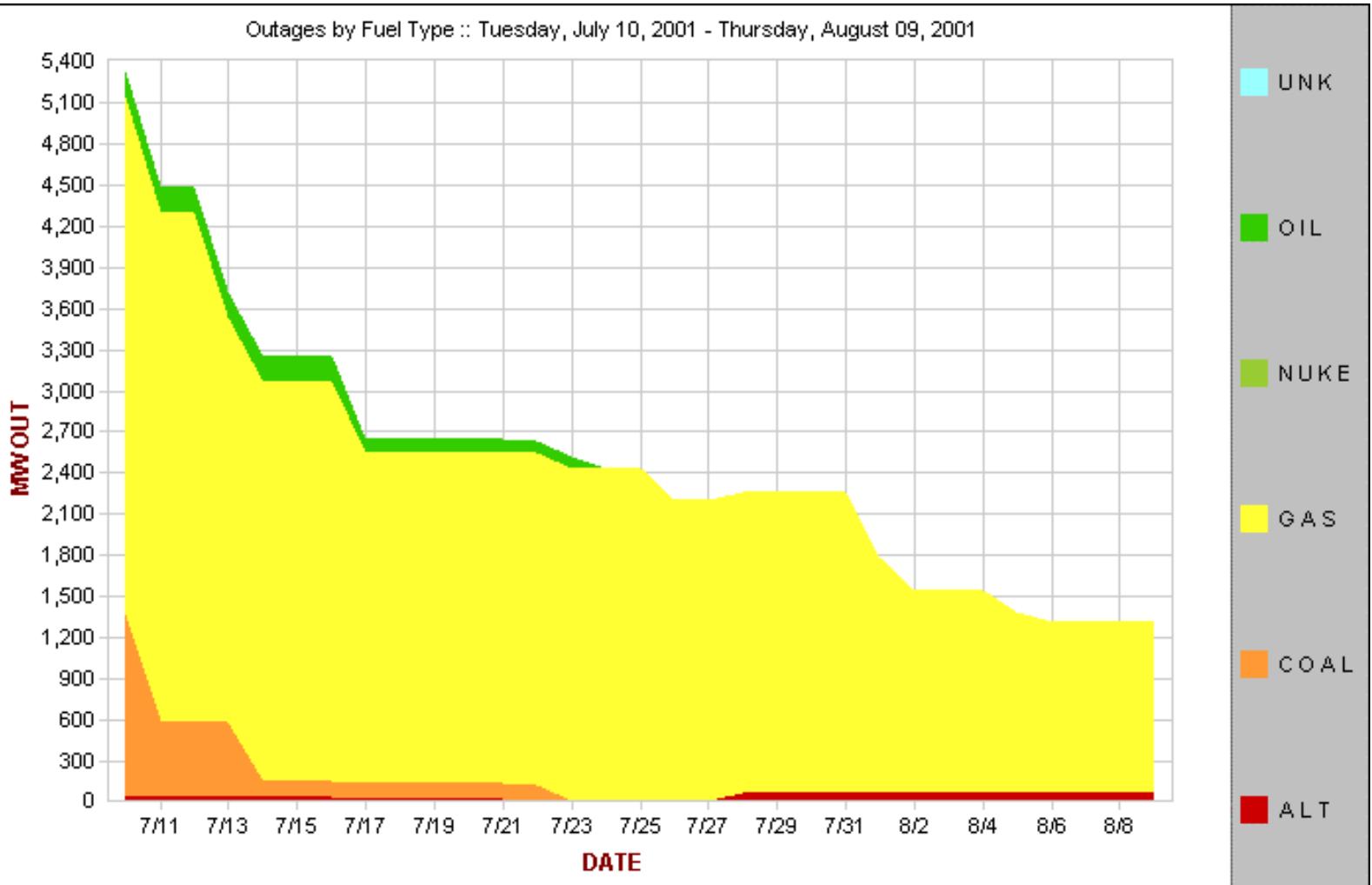


USGS Western Daily River Summary

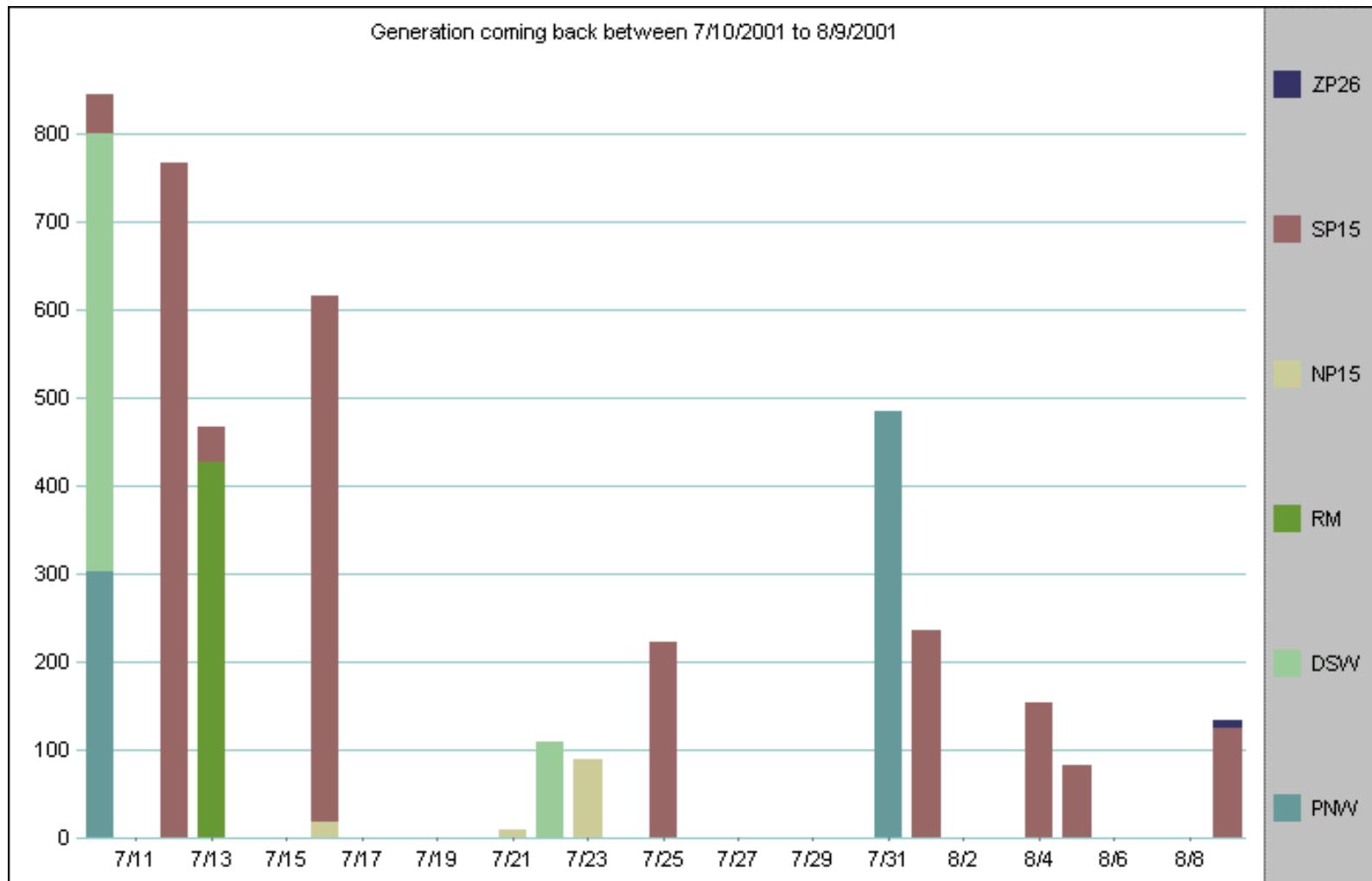


Confidential

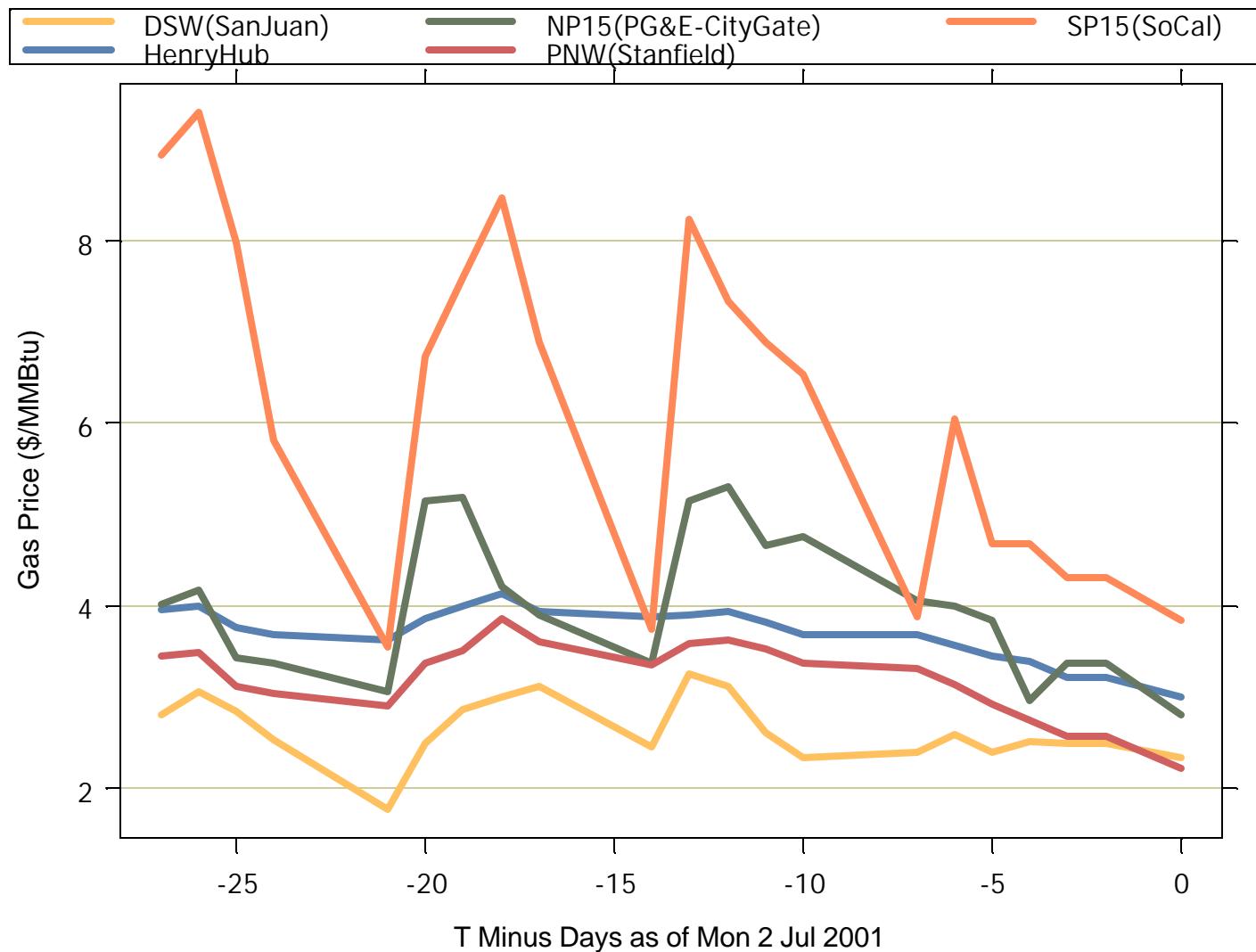




Generation coming back between 7/10/2001 to 8/9/2001

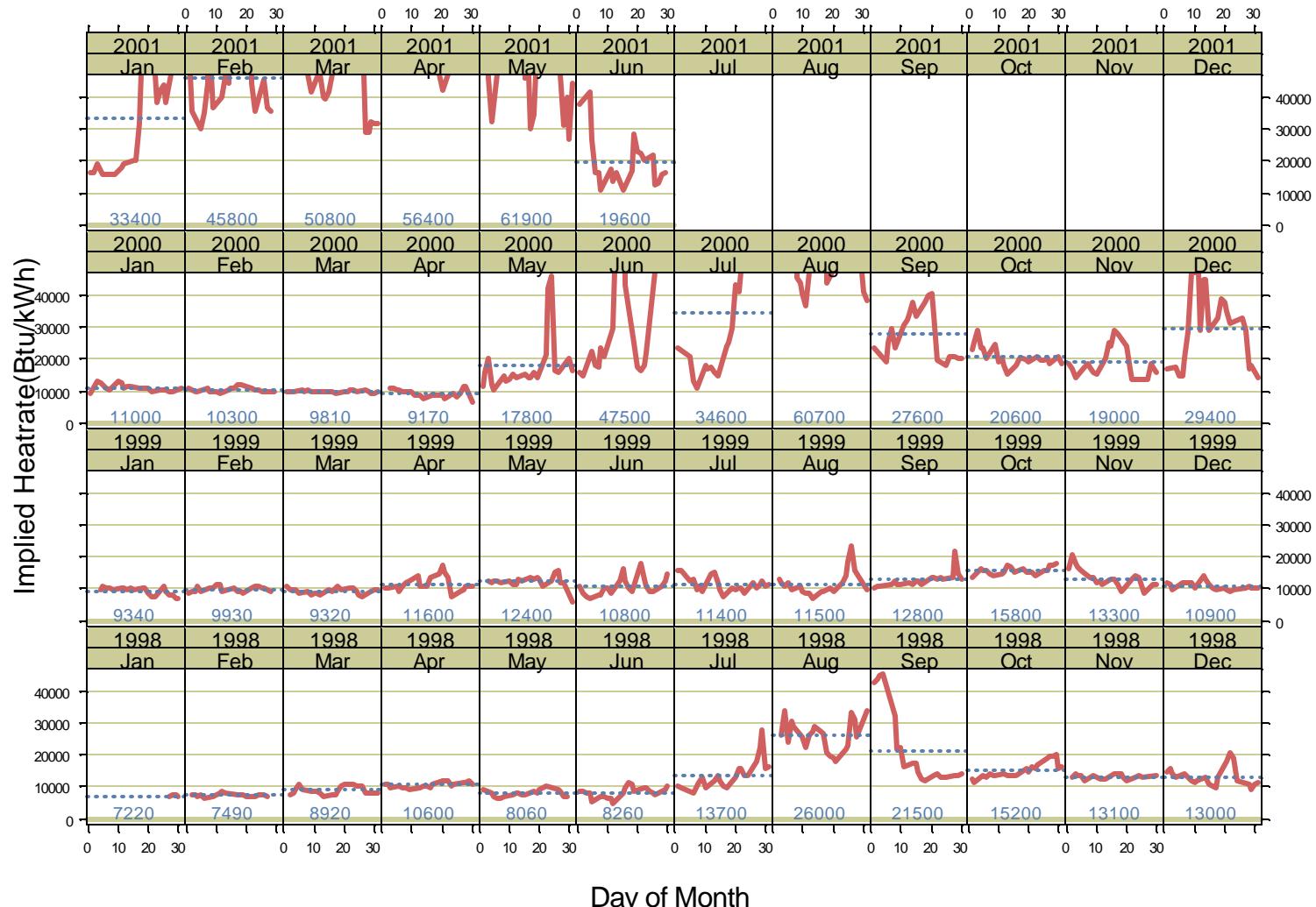


Daily Gas Prices -- Last 28 Days as of <Mon 2 Jul 2001>

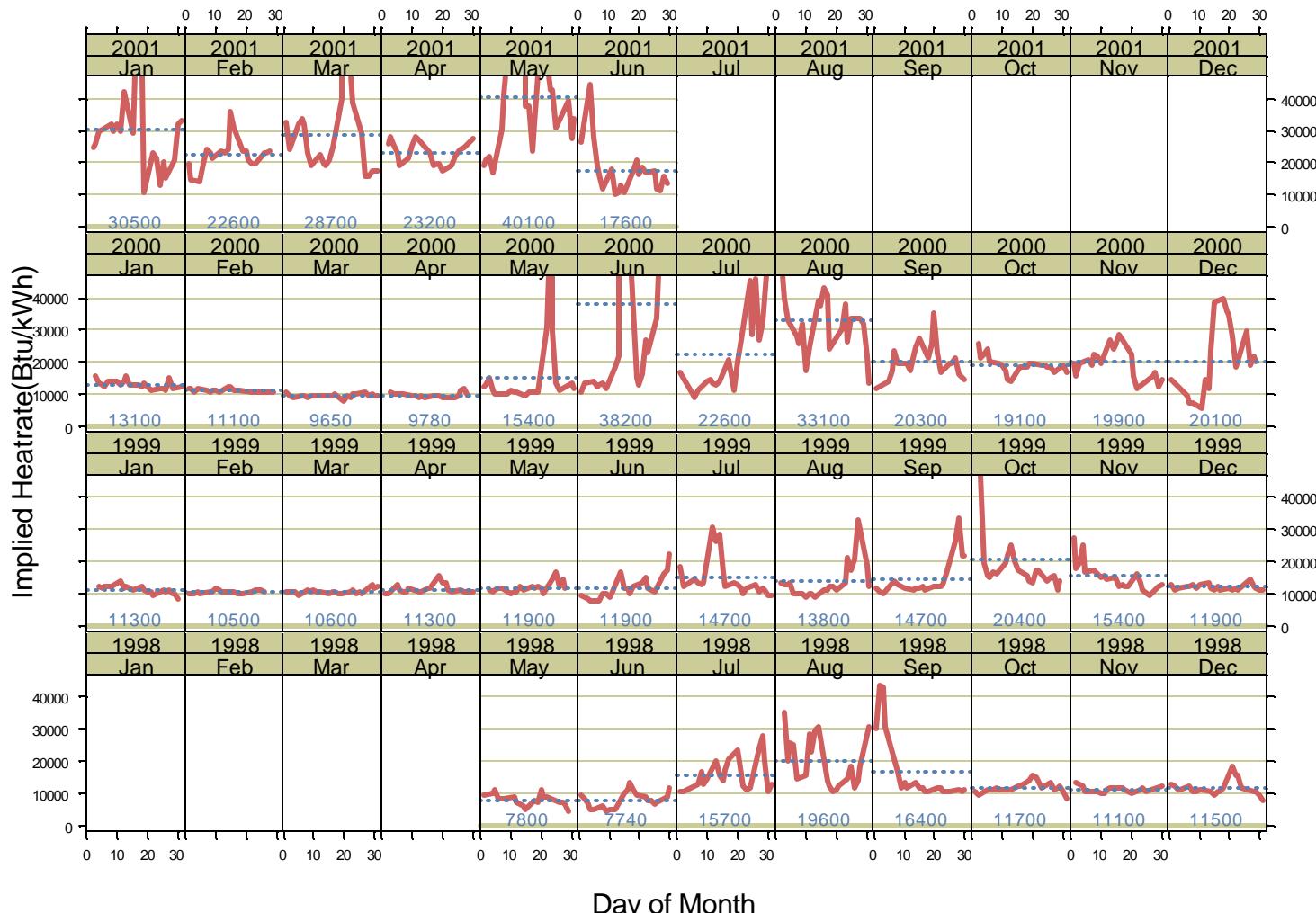


West Power Fundamentals (Cooper Richey) <2001-07-02 16:29:55.263>

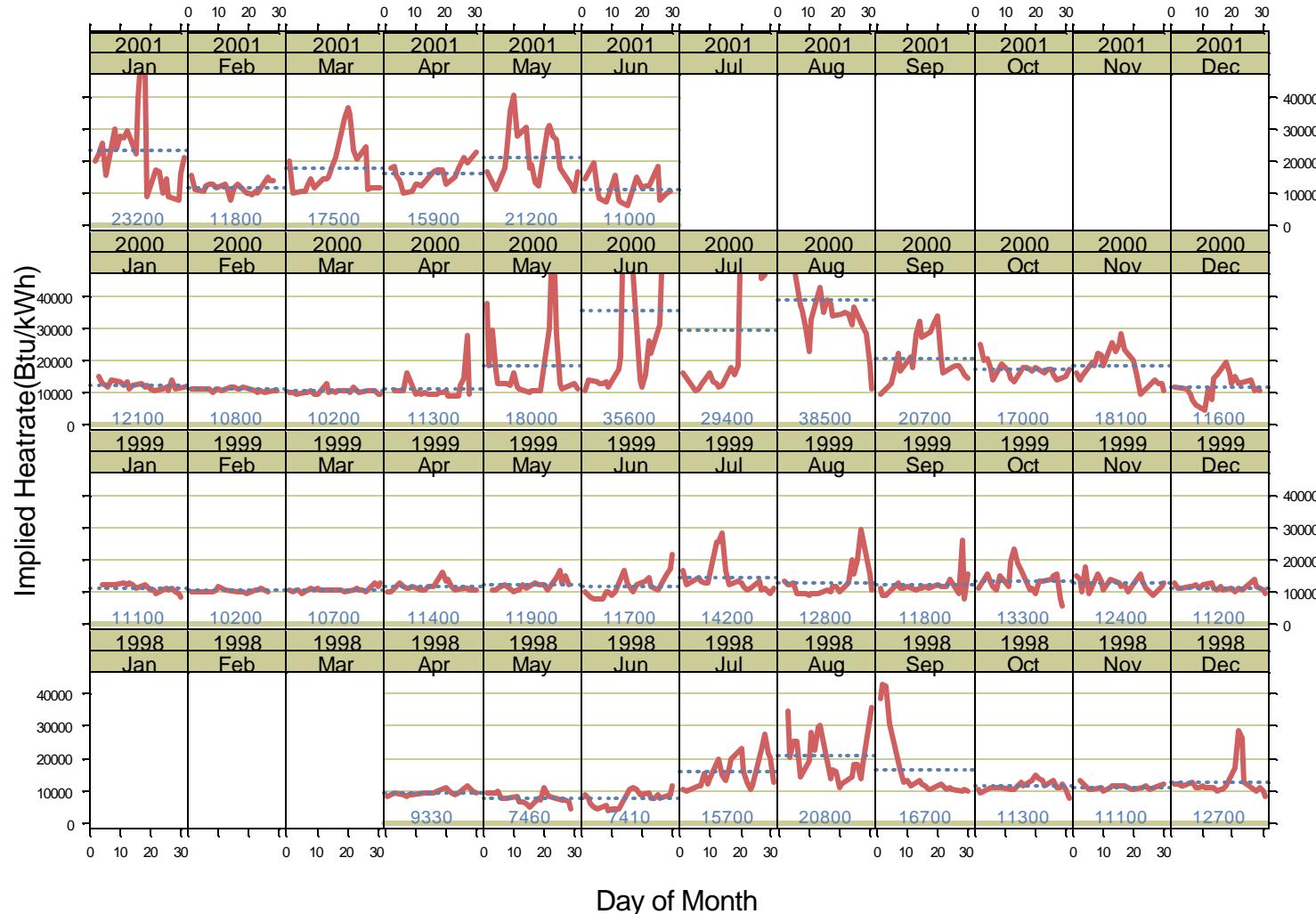
Implied Gas Heatrate - PNW (Stanfield Gas Price, Dow Jones Mid-C Peak Elec Price, Elec O&M = \$0.75, Gas Tran = \$0.30)



ied Gas Heatrate - NP15 (PG&E Citygate Gas Price, PX Peak *DJ Price after 1/29/2001* NP15 Elec Price, Elec O&M = \$0.75, Gas Tr



Implied Gas Heatrate - SP15 (Cal Border Gas Price, PX Peak *DJ Price after 1/29/2001* SP15 Elec Price, Elec O&M = \$0.75, Gas Tran =

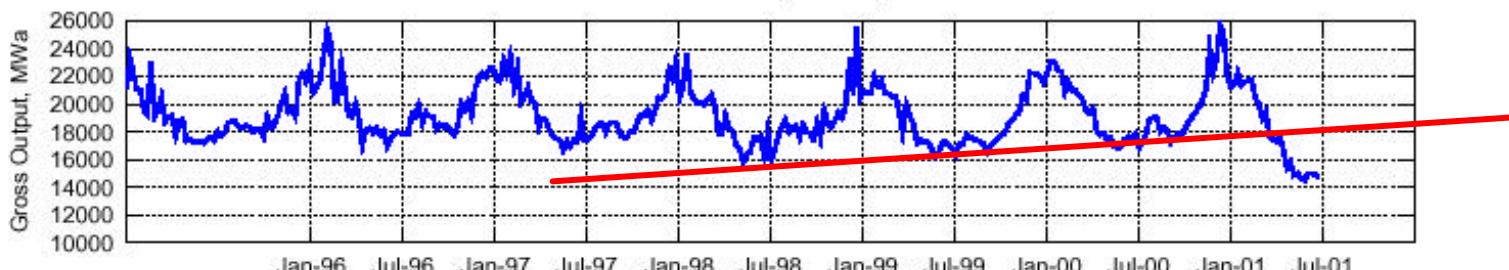


Day of Month

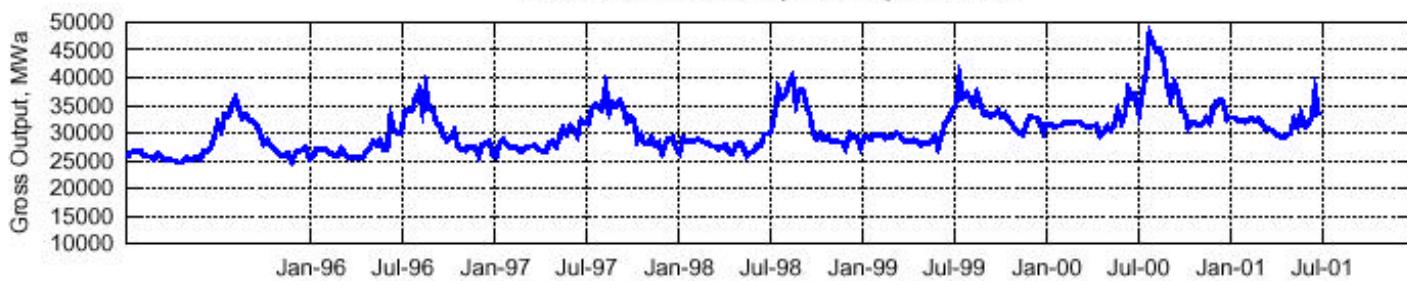
West Power Fundamentals (Cooper Richey) <2001-07-02 16:25:59.607>

EEI Output Statistics
1995 - 2001

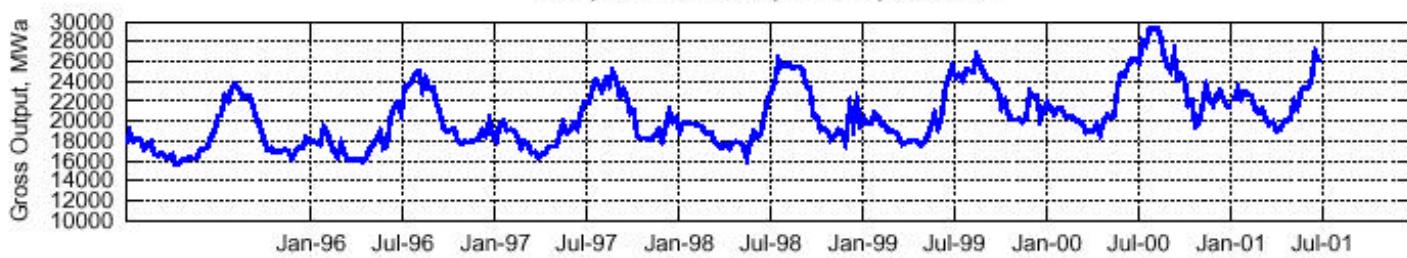
Pacific Northwest Weekly Electricity Production



Pacific Southwest Weekly Electricity Production



Rocky Mountain Weekly Electricity Production



Time
Confidential

Large Incident Locations 07/10/2001



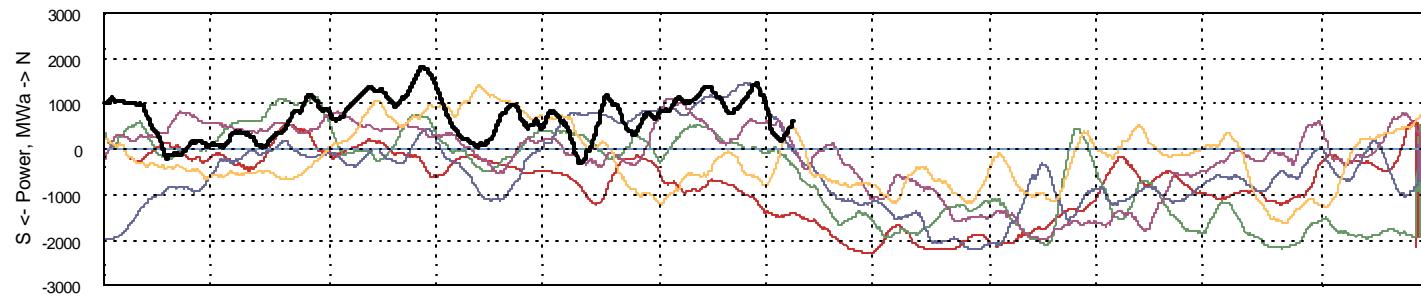
Fire Statistics

Statistics

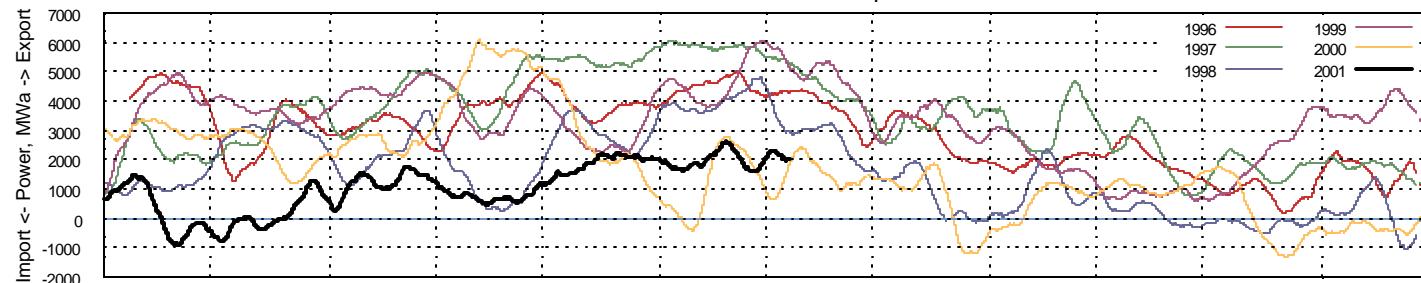
Daily Statistics 7/10/01		Year-to-Date Statistics 1/1/01 - 7/10/01	
Number of New Large Fires	3	Number of Fires	44,124
Number of Active Large Fires	5	10-Year Average	46,428
Acres from Active Fires	2,484	Number of Acres	1,244,092
Number of Fires Contained Yesterday	4	10-Year Average	1,442,201
States Currently Reporting Active Large Fires (see State-by-State Summaries for details)		2000 Number of Fires	51,519
		2000 Number of Acres	2,232,874
		1999 Number of Fires	51,181
		1999 Number of Acres	1,852,125

- Colorado (2)
- Utah (1)
- Washington (1)
- Wyoming (1)

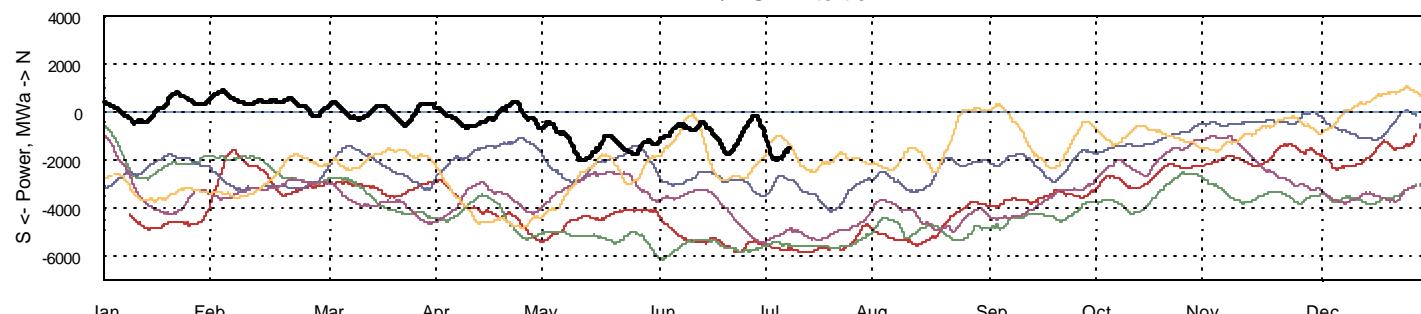
Pacific Coast Intertie Status Northern Intertie



Pacific Northwest Net Exports



PNW / PSW Intertie



Northern Intertie: Actual Flow

