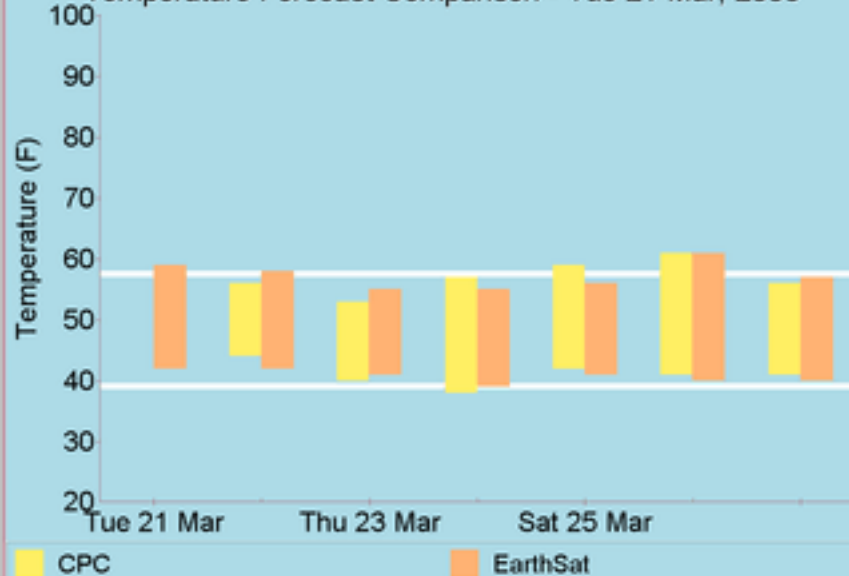


Strategy session

	values	Yesterday	Today	Wed	Thur	Fri	Sat	Mon	Tues	Predicted on 3/21/2000	Relative change in MWa for weeks ending (16 hour):							
Strategy Session	Date	3/20/2000	3/21/2000	3/22/2000	3/23/2000	3/24/2000	3/25/2000	3/27/2000	3/28/2000	Date	3/26/2000	4/2/2000	4/9/2000	4/16/2000	4/23/2000	4/30/2000		
	PNW									PNW								
	Load Forecast	30,710	29,972	29,807	30,002	29,955	27,804	29,675	29,791	Load Forecast	29,709	29,400						
	Normal Load	30,062	30,062	30,062	30,062	30,062	28,129	29,910	29,910	-	29,740	29,400	28,960	28,850	28,741	28,560		
	Hydro Gen.	14,990	14,990	14,990	14,990	14,990	14,990	14,977	14,977	Load Forecast Relative to Normal	(32)	309	749	859	968	1148		
	Thermal Outages	1,398	1,259	839	839	839	509	589	589	Hydro Gen.	-	(14)	1834	3014	4026	5038		
										Thermal Outages	-	343	423	453	344	(89)		
										Total	-	638	3006	4325	5338	6098		
	DSW									DSW								
	Load Forecast	10,835	10,611	10,589	10,675	10,750	9,967	10,575	10,650	Load Forecast	10,571	10,458						
	Normal Load	10,663	10,663	10,663	10,663	10,663	9,908	10,574	10,574		10,537	10,445	10,700	10,817	11,416	11,671		
	Hydro Gen.	1,848	1,848	1,848	1,848	1,848	1,848	1,873	1,873	Load Forecast Relative to Normal	34	126	(128)	(246)	(845)	(1100)		
	Thermal Outages	2,087	1,737	2,487	2,137	1,877	1,877	1,127	1,507	Hydro Gen.	-	25	86	86	86	86		
										Thermal Outages	-	(196)	(2252)	(2628)	(2443)	(906)		
										Total	-	(45)	(2294)	(2788)	(3201)	(1920)		
	CA									CA								
	Actual Load	32,643																
	Load Forecast	32,643	32,736	32,730	32,668	32,678	27,908	32,465	32,459	Load Forecast	31,894	31,646						
	Normal Load	32,726	32,726	32,726	32,726	32,726	27,937	32,459	32,459	Load Normal	31,928	31,645	31,666	31,893	32,241	32,917		
	Hydro Gen.	7,074	7,074	7,074	7,074	7,074	7,074	7,084	7,084	Load Forecast Relative to Normal	(34)	249	227	1	(347)	(1023)		
	Thermal Outages	4,072	4,072	4,072	4,072	3,991	3,991	3,991	3,991	Hydro Gen.	-	10	35	35	35	35		
										Thermal Outages	-	125	1128	1212	306	921		
									Total	-	384	1391	1247	(6)	(67)			
RM									RM									
Load Forecast	6,074	6,126	6,103	6,042	6,016	5,334	6,259	6,216	Load Forecast	5,949	6,071							
Normal Load	6,070	6,070	6,070	6,070	6,070	5,393	6,235	6,235	Load Normal	5,957	6,070	5,954	5,958	5,901	5,873			
Hydro Gen.	206	206	206	206	206	206	214	214	Load Forecast Relative to Normal	(8)	(121)	(5)	(9)	48	76			
Thermal Outages	1,536	1,536	1,184	1,184	1,105	1,105	836	836	Hydro Gen.	-	8	26	26	26	26			
									Thermal Outages	-	473	739	748	996	1028			
									Total MW	-	360	761	765	1070	1130			
									Total MW (all regions)	-	1338	2863	3550	3201	5241			
gsolberg	3/21/2000															Confidential		Name:

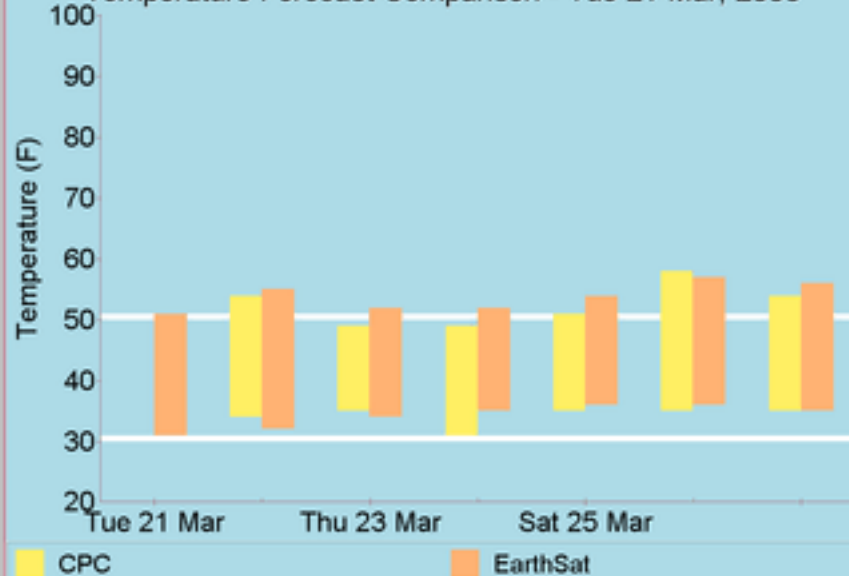
PORTLAND

Temperature Forecast Comparison - Tue 21 Mar, 2000



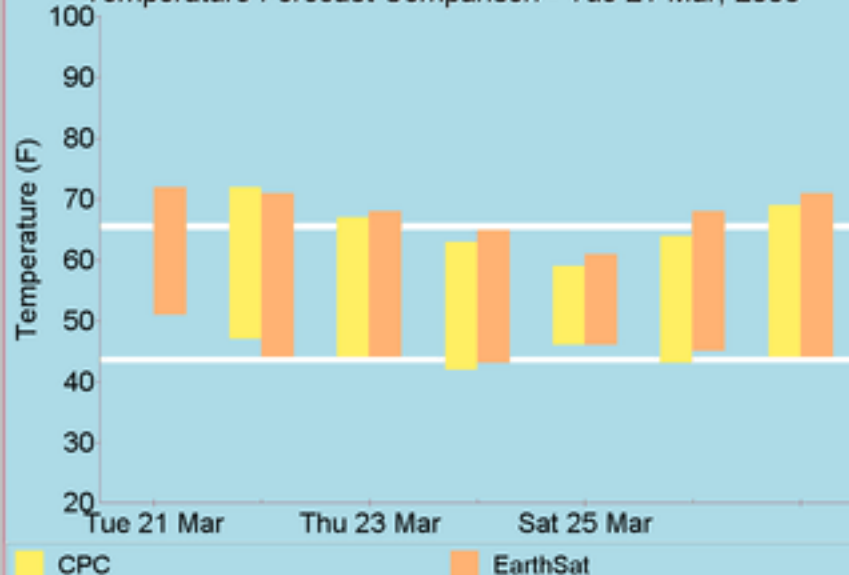
SPOKANE

Temperature Forecast Comparison - Tue 21 Mar, 2000



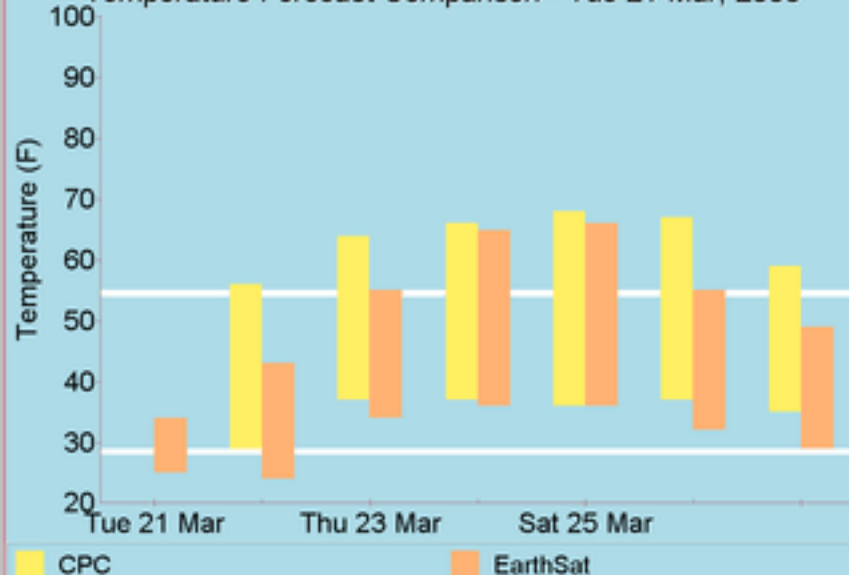
SACRAMENTO

Temperature Forecast Comparison - Tue 21 Mar, 2000



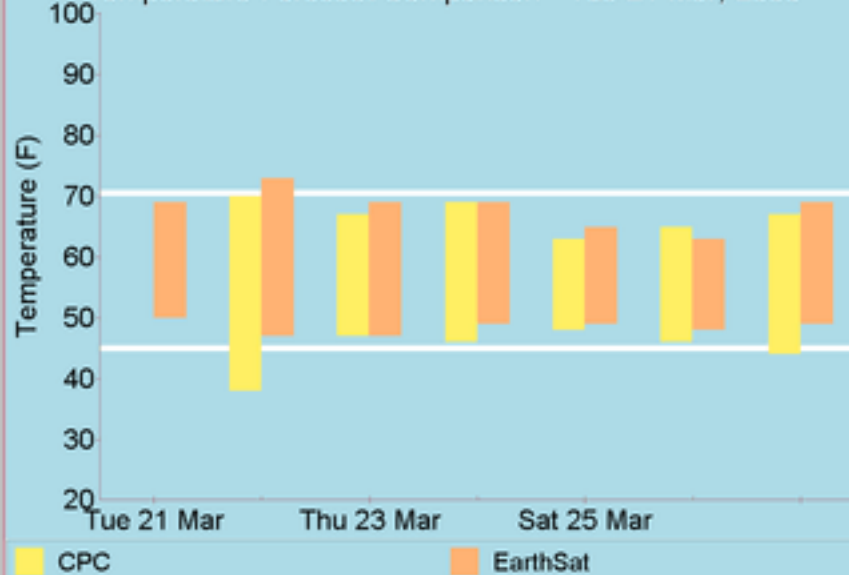
DENVER

Temperature Forecast Comparison - Tue 21 Mar, 2000



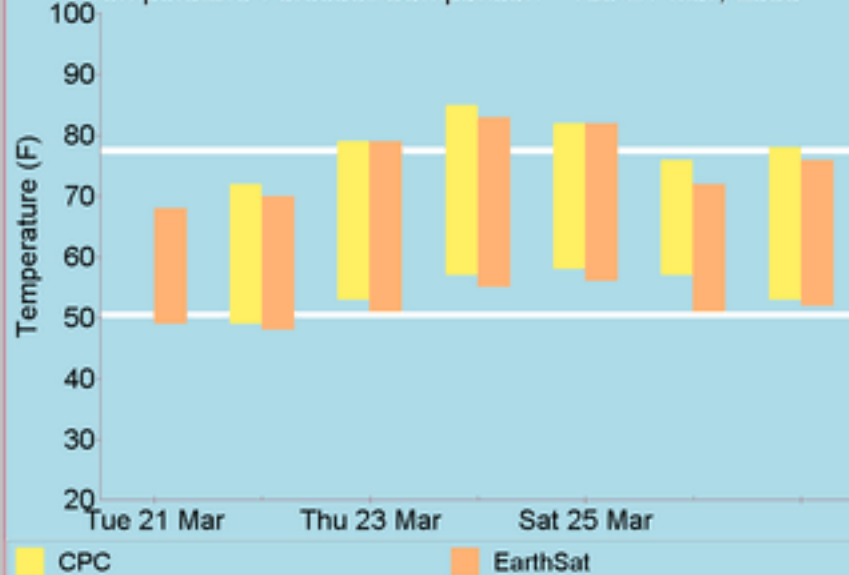
RIVERSIDE

Temperature Forecast Comparison - Tue 21 Mar, 2000



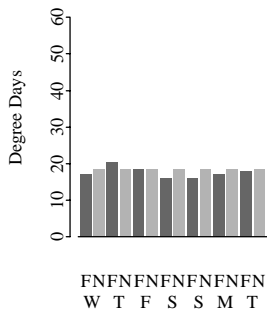
PHOENIX

Temperature Forecast Comparison - Tue 21 Mar, 2000

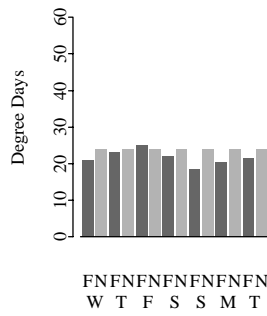


MRF: Forecast and Normal Degree Days for Period Following Mar 21

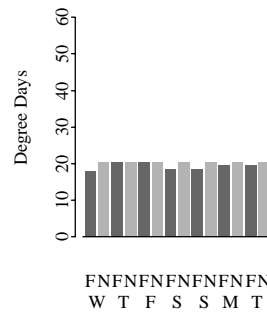
Seattle



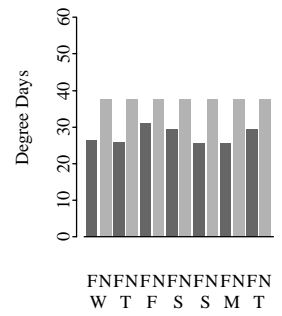
Spokane



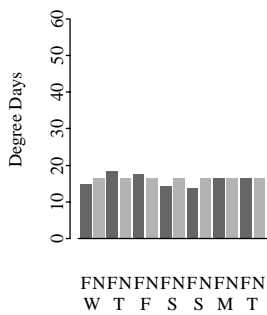
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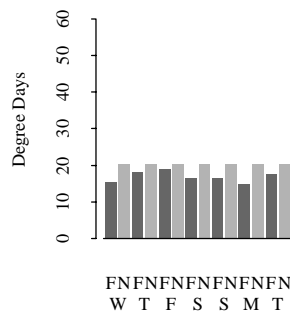
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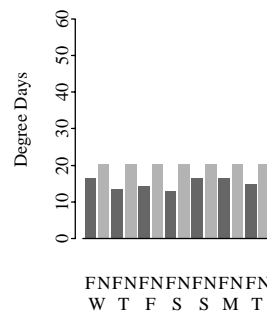
Portland



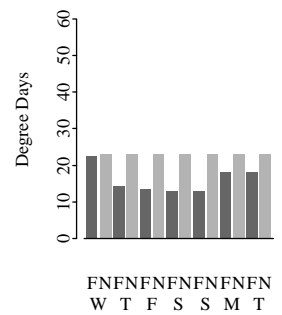
Boise



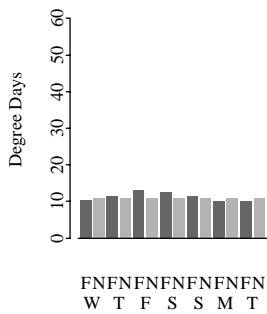
Salt Lake City



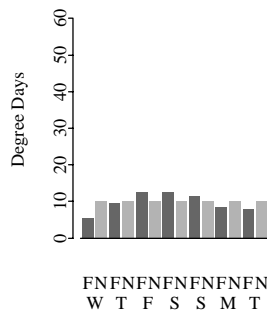
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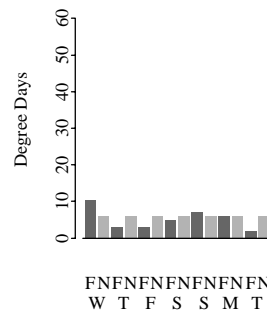
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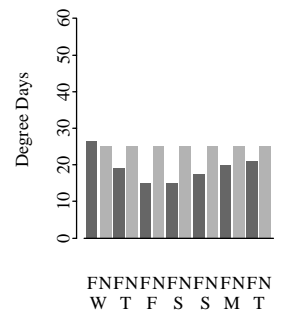
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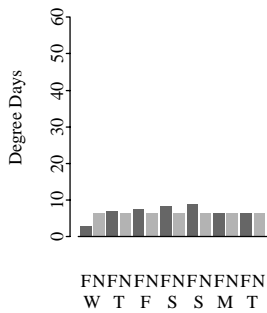
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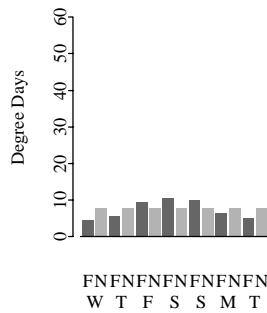
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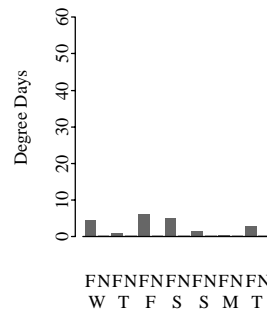
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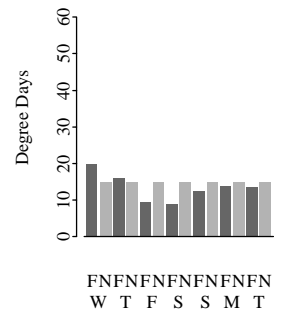
Fresno



Phoenix

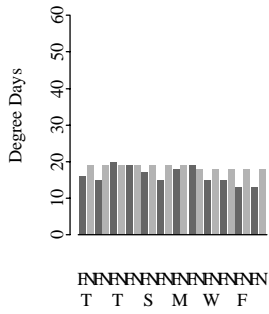


Albuquerque

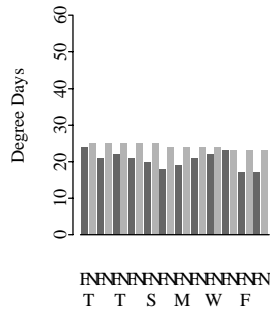


Earth Satellite Forecast & Normal Degree Days: Period Beginning Mar 21

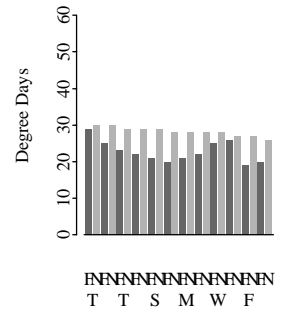
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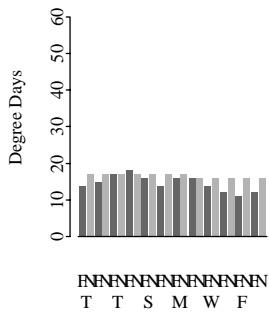
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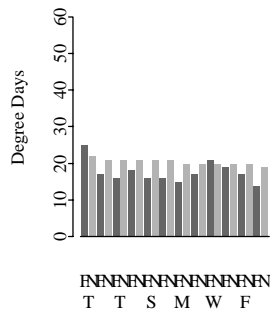
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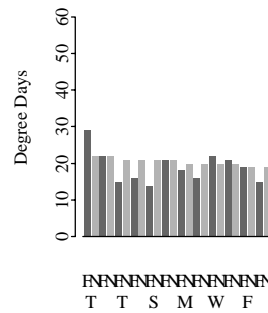
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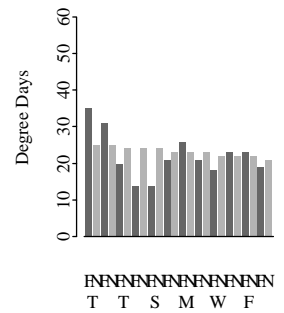
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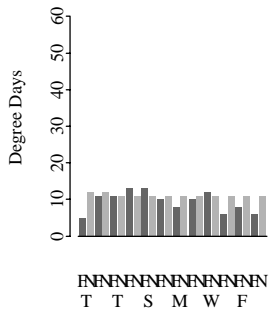
Salt Lake City



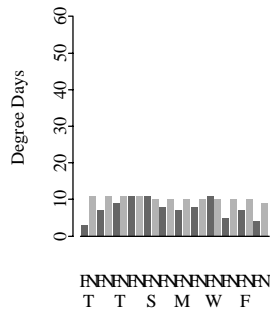
Denver



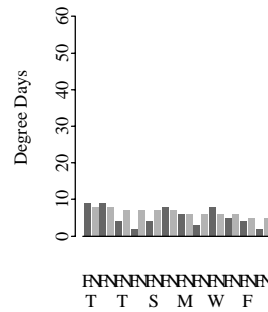
San Francisco



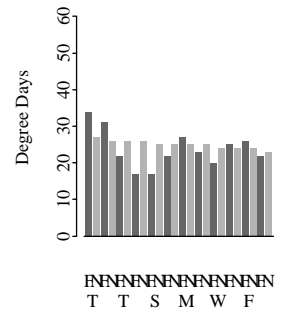
Sacramento



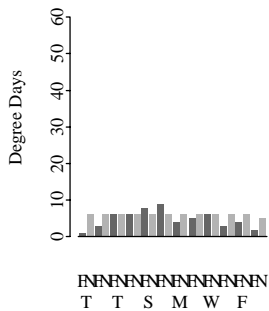
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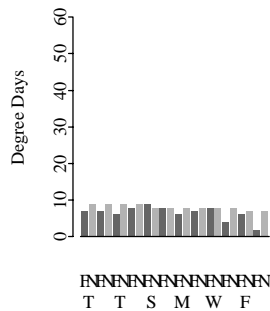
Colorado Springs



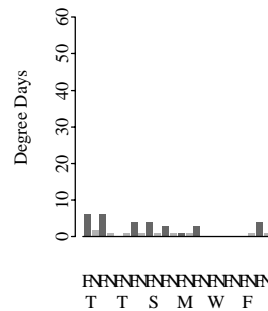
Burbank



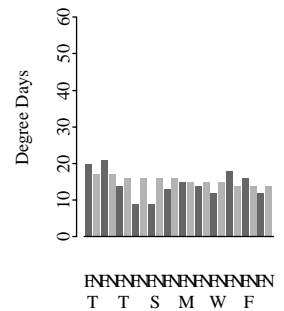
Fresno



Phoenix



Albuquerque





EARTHSAT

EarthSat Energy Weather - Cold Air Watch

Tuesday

DAY

3/21/00

DATE

8:00 A.M.

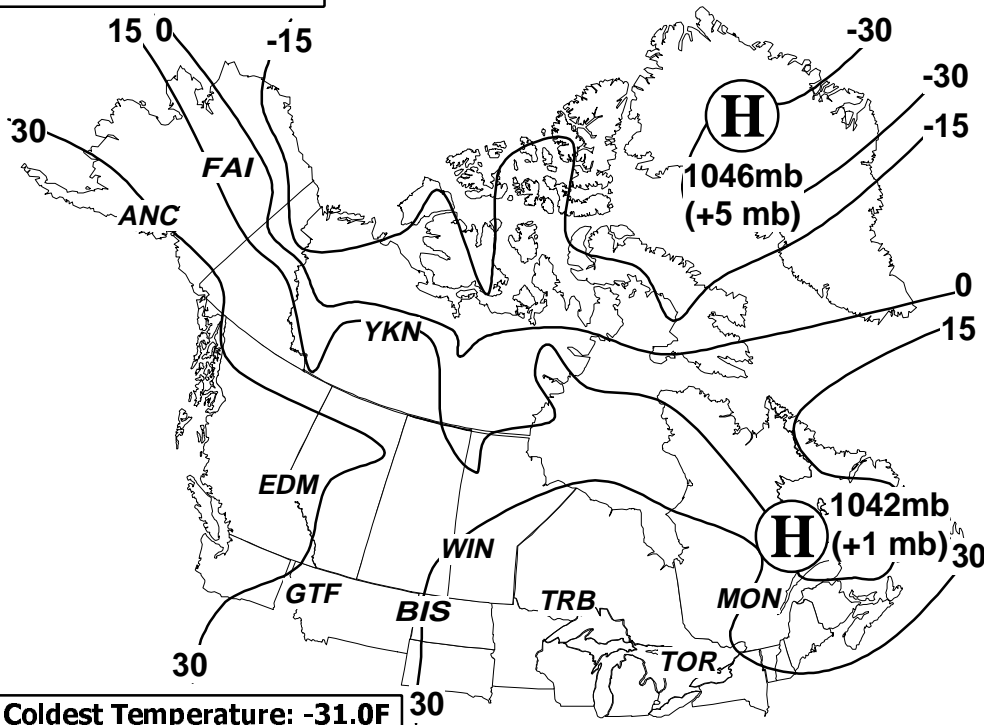
TIME

SG

FORECASTER

CURRENT TEMPERATURES

Conditions at 5 AM CST



DISCUSSION

Spring Is In The Air As Temperatures Remain Mainly Above Freezing This Morning.

Temperatures across a majority of the US this morning are above freezing, with the exception of the Rocky Mountain states and northern New England, where temperatures are generally in the 20s. One would have to go into the northern territories of Canada to find any sub-zero temperatures this morning. High pressure that has become almost stationary north of Maine is helping to keep temperatures on the cool side across the Northeast and Mid-Atlantic today. A second high in western Greenland is helping to keep temperatures hold on to the -30s across that region.

LEGEND

Temperature contours are in degrees Fahrenheit (F).

WIN = Winnipeg

ANC = Anchorage

EDM = Edmonton TOR = Toronto

BIS = Bismarck

FAI = Fairbanks

GTF = Great Falls

TRB = Thunder Bay

YKN = Yellowknife

MON = Montreal

FORECAST PATTERN OF HIGH PRESSURE

The European model continues to push for a significant low to develop off the New England coast on Saturday, which would help to throw the cooler air back into this region over the weekend. The other models, though, are pushing this low well out to sea.

The American model depicts an "omega" blocking pattern across the US late in the 6-10 day period, which could mean a 3 to 4 day cool setup for the East and Southwest.

Jet Stream for Friday (3/24) from the European model.

Jet Stream for Wednesday (3/29) from the American model.

Forecast Departures:

Event 1

Northeast: -2 to +2F

Event 2

Northeast: -4 to 0 F

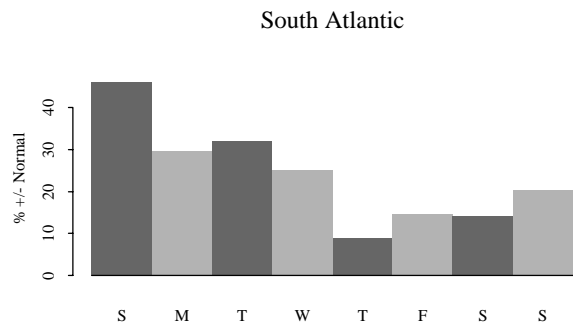
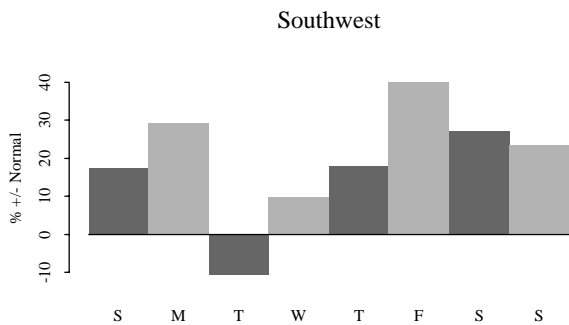
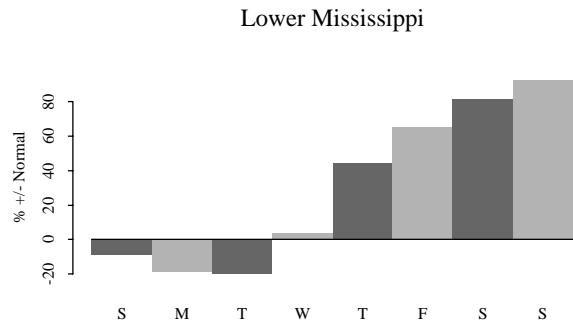
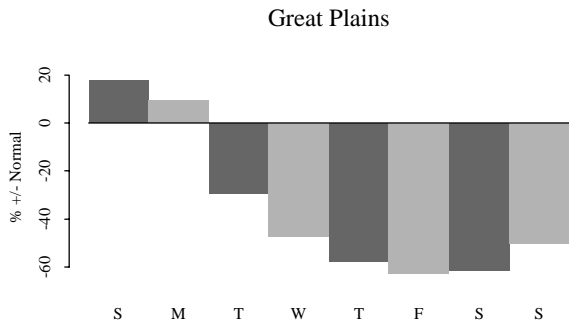
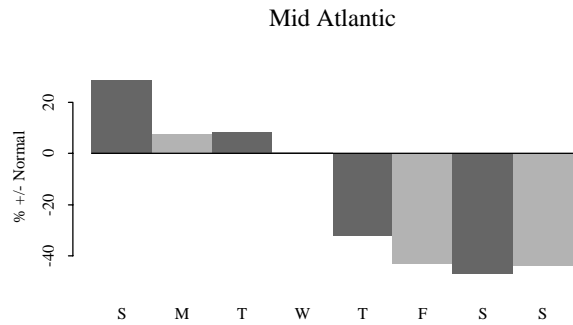
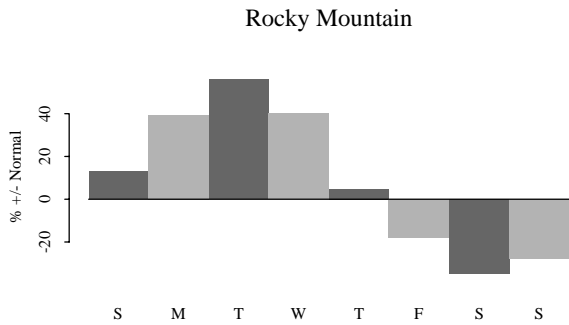
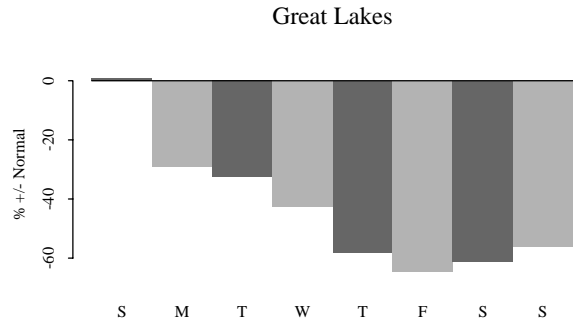
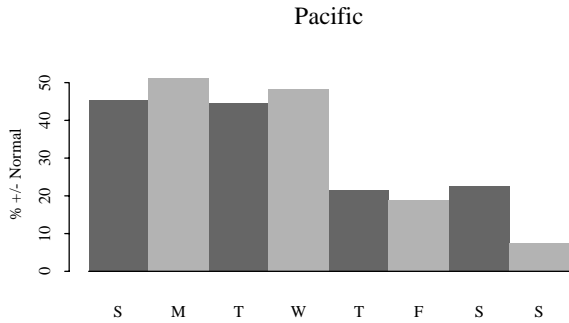
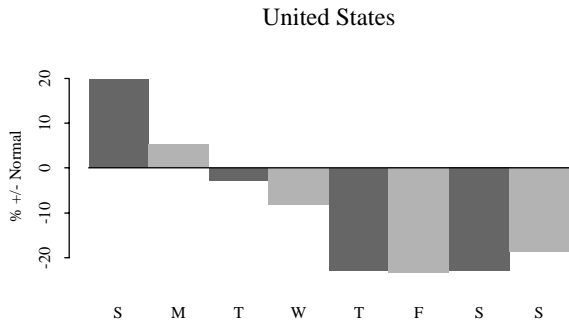
Mid-Atlantic: -3 to +1 F

Northeast Favored For Seasonal To Below Temperatures.

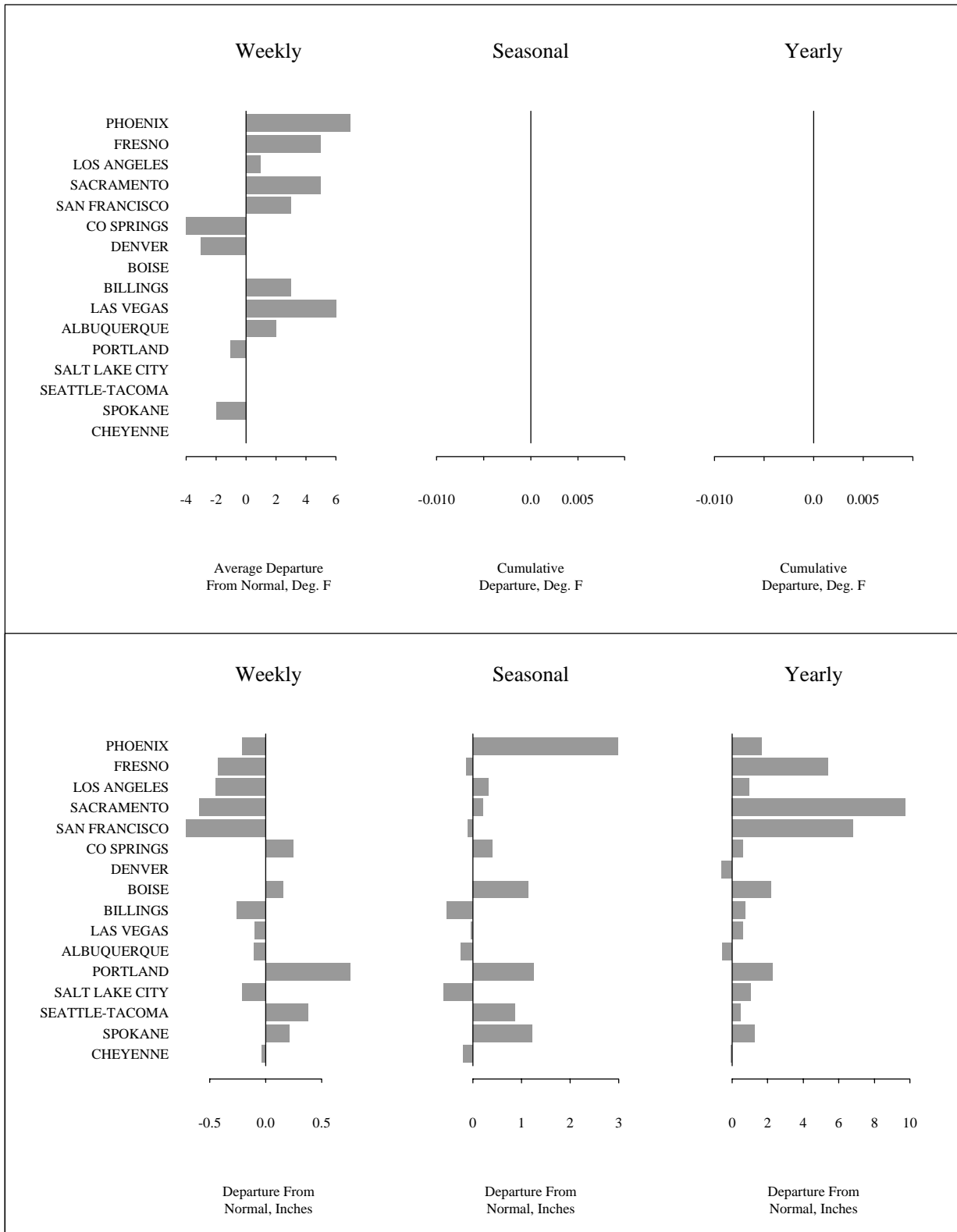
Over the next 10 days the best chance for any seasonal to below normal temperatures will be over the Northeast and Mid-Atlantic, where a significant trough is expected to set up across the region during the 6-10 day period. As far as the cool-down this weekend, the European model continues to hold onto it, while the rest of the models keep this cooler weather way off the East coast, allowing the East to warm to above seasonal levels. The event in the 6-10 day period is supported by the American and hinted at by the European, while the Canadian model remains the warmer of the models, setting up a more zonal pattern by the end of the 10-day period. Our forecast reflects more of the American model, with cooling expected across the East Coast and Four Corners area late in the 6-10 day period.

Northeast / Mid-Atlantic To See Additional Seasonal To Below Temps.

CNG Regional Energy Indices
For Week Beginning 03/19/00



NWS Temperature & Precipitation Summaries for Week Ending 3/19/00



Confidential

HYDROMETEOROLOGICAL DISCUSSION

NORTHWEST RIVER FORECAST CENTER PORTLAND OR
11:30 AM PST MON MAR 20 2000

HYDROMETEOROLOGICAL CONDITIONS...PAST 24 HOURS...4AM - 4AM

LINGERING UNSETTLED POST-FRONTAL SHOWERS HIT MUCH OF WESTERN OREGON AND WESTERN WASHINGTON WITH SCATTERED .3 TO .8 INCH ACCUMULATIONS OF VALLEY RAIN AND MOUNTAIN SNOW SHOWERS. SOUTHEASTERN IDAHO AND PORTIONS OF SOUTH EASTERN BRITISH COLUMBIA COLLECTED SIMILAR WATER EQUIVALENT AMOUNTS OF MOSTLY SNOW. GENERALLY LESS THAN .1 INCH SPOTTY MIXED SHOWERS WERE REPORTED ELSEWHERE. EASTSIDE BASINS DEFINITELY REVEALED EFFECTS OF COLD NORTHERLY FLOW INTO THE INTERIOR WITH SURFACE BASED FREEZING LEVELS REPORTED THIS MORNING AT BOISE AND GREAT FALLS. SOME SLIGHT SOUTHWESTERLY ADVECTION IN ADVANCE OF AN APPROACHING PACIFIC DISTURBANCE POKED QUILLAYUTE'S FREEZING LEVEL UP TO 3500 FEET...THE HIGHEST REPORTED FREEZING LEVEL ACROSS OUR FORECAST AREA THIS MORNING.

HYDROLOGIC CONDITIONS...

WEST OF THE CASCADES...

CRESTING MINOR HEADWATER RISES WERE OBSERVED ACROSS MUCH OF WESTERN WASHINGTON AND WESTERN OREGON.

EAST OF THE CASCADES...

FLOWS GENERALLY REMAINED STEADY.

HYDROMETEOROLOGICAL FORECAST...20 MAR - 24 MAR

WEAK SHOWERY TYPE WEATHER POURING THROUGH THE TOP OF A RIDGE IS LIKELY TO RESULT IN INCREASING PROSPECTS FOR OCCASIONAL LIGHT VALLEY RAIN...WITH RISING SNOW LINES INTO TUESDAY ESPECIALLY ACROSS WESTERN WASHINGTON WHILE THE REMAINDER OF THE REGION WILL LIKELY BENEFIT FROM MOSTLY FAIR WEATHER AND WARMING CONDITIONS. BUT A TRAILING OFFSHORE COLD FRONT IS FORECAST TO PUSH OCCASIONAL .4 TO .8 INCH RAIN AND SNOW INTO MOST WESTSIDE LOCATIONS LATER ON WEDNESDAY...WITH LARGELY DIMINISHED REMNANT SHOWERS RACING ACROSS INTERIOR BASINS THROUGH THURSDAY. TODAY'S GUIDANCE IMPLIES THAT WESTSIDE BASINS WILL GET HIT AGAIN WITH MORE OCCASIONAL VALLEY RAIN AND MOUNTAIN SNOW FRIDAY AS ANOTHER PACIFIC DISTURBANCE PUSHES ONSHORE.

HYDROLOGIC FORECAST...

WEST OF THE CASCADES...

LOOK FOR GENERAL RECESSIONS MONDAY-TUESDAY...FOLLOWED BY MINOR RISES LATE WEDNESDAY AND POSSIBLY AGAIN LATE FRIDAY.

EAST OF THE CASCADES...

EXCEPT FOR POSSIBLE MINOR WEDNESDAY-THURSDAY INTERIOR SNOW MELT RISES... LITTLE CHANGE IN FLOWS EXPECTED.

6-10 DAY OUTLOOK...25 MAR - 29 MAR

UNSETTLED WEATHER IS EXPECTED TO DOMINATE OUR WEATHER...SPREADING OCCASIONAL VALLEY RAIN AND MOUNTAIN SNOW ACROSS MUCH OF THE REGION THROUGH THE 6-10 DAY FORECAST PERIOD.

SEASONAL
WATER SUPPLY FORECASTS
ISSUED BY
NATIONAL WEATHER SERVICE
NORTHWEST RIVER FORECAST CENTER
PORTLAND OREGON

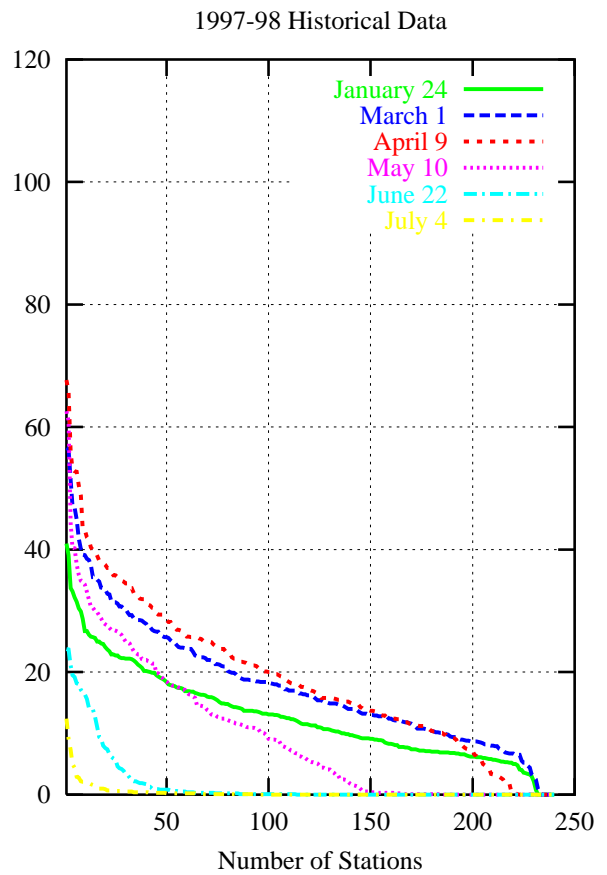
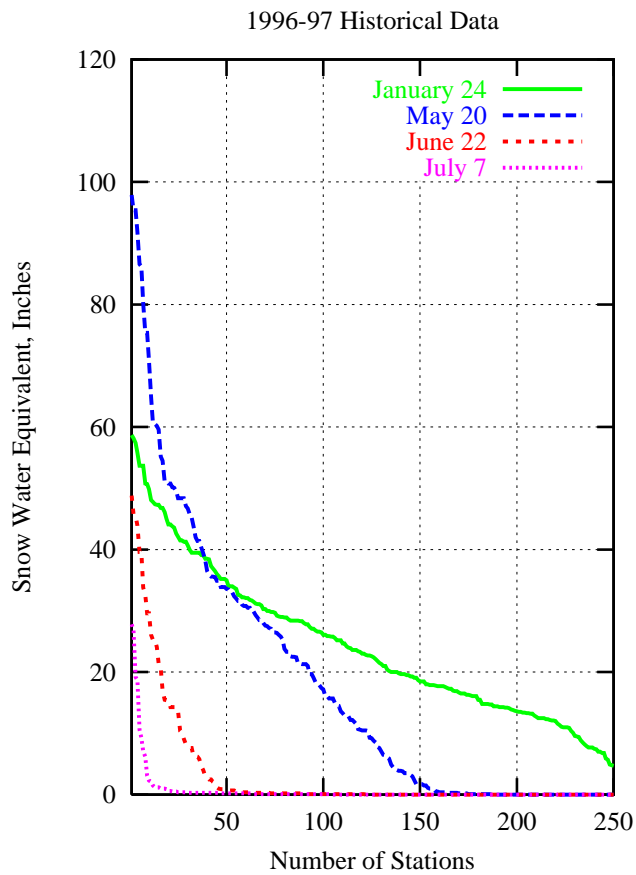
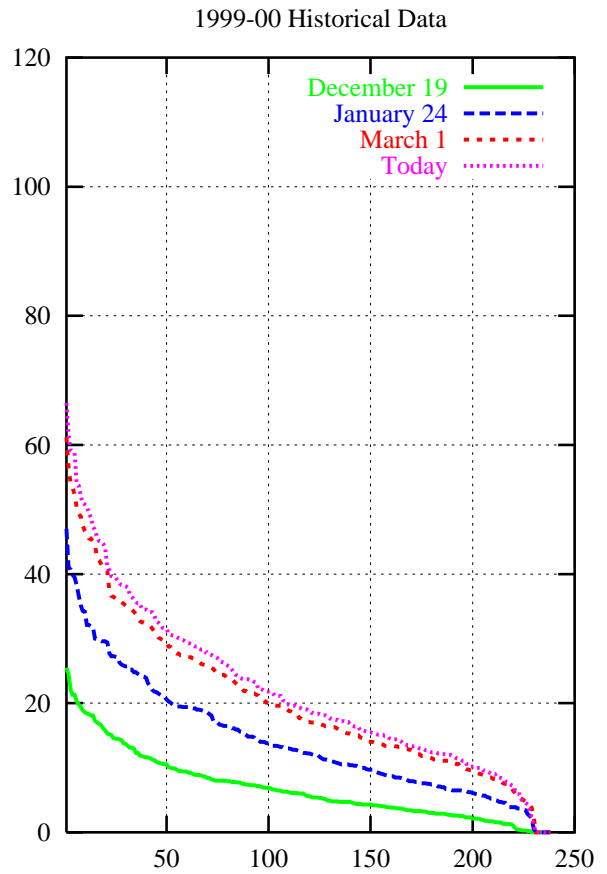
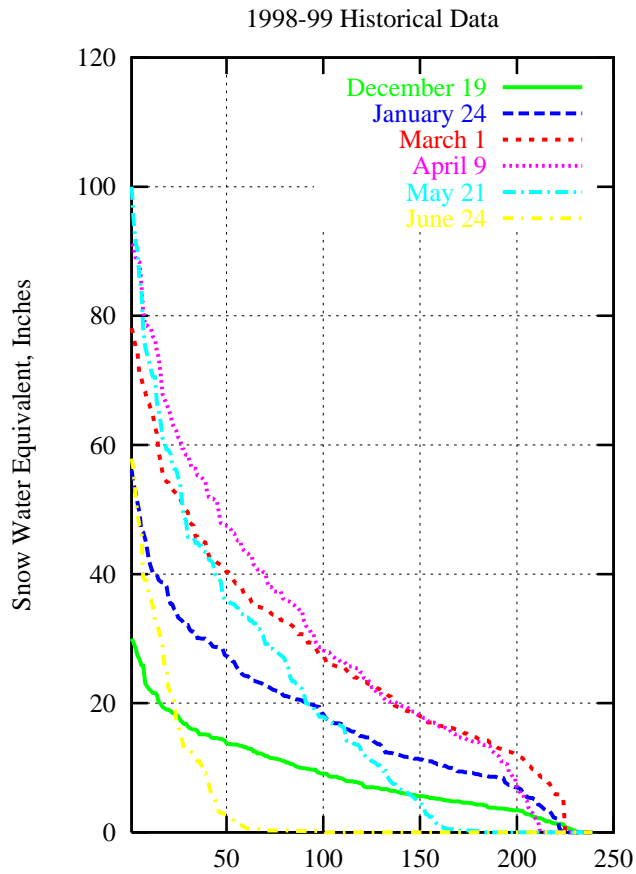
MAR-00MIDMN 1 WATER SUPPLY FORECASTS

OBS PREC THRU 13TH; NORMAL PREC REST OF WAY

STREAM AND STATION	PERIOD	FORECAST	%	AVERAGE
COLUMBIA RIVER				
MICA RESERVOIR INFLOW, BC	FEB-SEP	13300.0	101	13170.
	APR-SEP	12900.0	101	12730.
ARROW LAKES INFLOW	FEB-SEP	28300.0	106	26800.
	APR-SEP	26900.0	105	25540.
BIRCHBANK, BC (1)	APR-SEP	46400.0	106	43800.
GRAND COULEE, WA (1)	JAN-JUL	65800.0	104	63280.
	APR-SEP	67400.0	104	64850.
ROCK ISLAND DAM BLO, WA (1)	APR-SEP	73700.0	105	70480.
THE DALLES NR, OR (1)	APR-SEP	98100.0	99	98980.
	JAN-JUL	105000.0	99	105900.
	APR-AUG	92400.0	99	93250.
KOOTENAI RIVER				
LIBBY RES INFLOW, MT (1)	APR-SEP	7430.0	110	6772.
KOOTENAY RIVER				
KOOTENAY LAKE INFLOW, BC	APR-SEP	17400.0	105	16650.
DUNCAN RIVER				
DUNCAN RESERVOIR INFLOW, BC	FEB-SEP	2460.0	106	2319.
	APR-SEP	2390.0	107	2238.
CLARK FORK				
ST. REGIS, MT (1)	APR-SEP	3540.0	86	4095.
PEND OREILLE RIVER				
PEND OREILLE LAKE IN, ID (1)	APR-SEP	13100.0	91	14370.
S.F. FLATHEAD RIVER				
HUNGRY HORSE RES IN, MT (1)	APR-SEP	2050.0	94	2184.
FLATHEAD RIVER				
FLATHEAD LAKE INFLOW, MT (1)	APR-SEP	6560.0	95	6926.
COEUR D'ALENE RIVER				
COEUR D'ALENE LAKE IN, ID	APR-SEP	2820.0	104	2720.
SIMILKAMEEN RIVER				
NIGHTHAWK NR, WA (1)	APR-JUL	1200.0	92	1304.
OKANAGAN RIVER				
TONASKET NR, WA (1)	APR-SEP	1550.0	96	1623.
CHELAN RIVER				
LAKE CHELAN INFLOW, WA (1)	APR-SEP	1120.0	97	1160.
WENATCHEE RIVER				
PESHASTIN, WA	APR-SEP	1590.0	97	1636.
YAKIMA RIVER				
PARKER NR, WA	APR-SEP	1940.0	97	1994.
SKAGIT RIVER				
CONCRETE NR, WA	APR-SEP	6470.0	99	6525.
COWLITZ RIVER				
MAYFIELD RES INFLOW, WA	APR-SEP	1890.0	96	1971.
	APR-JUL	1660.0	96	1731.
CASTLE ROCK, WA	APR-SEP	2490.0	93	2668.
SNAKE RIVER				
JACKSON LAKE INFLOW, WY (1)	APR-JUL	650.0	83	781.
PALISADES RES INFLOW, ID (1)	APR-JUL	2670.0	83	3226.
HEISE NR, ID	APR-JUL	2870.0	83	3451.
WEISER, ID (1)	APR-JUL	3660.0	67	5465.
BROWNLEE RES INFLOW	APR-JUL	3950.0	68	5794.
LOWER GRANITE RES IN, WA (1)	JAN-JUL	26800.0	90	29740.
	APR-JUL	19500.0	90	21650.

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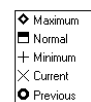
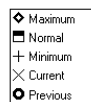
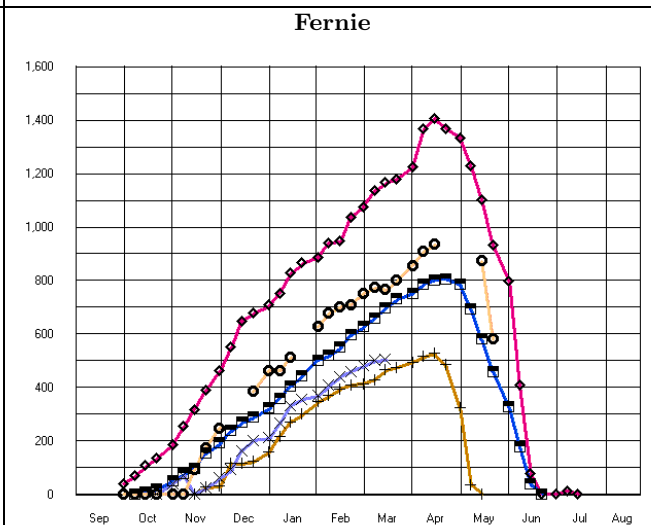
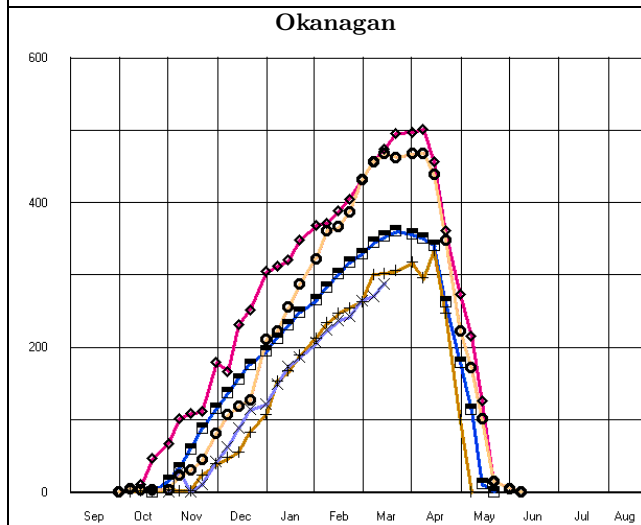
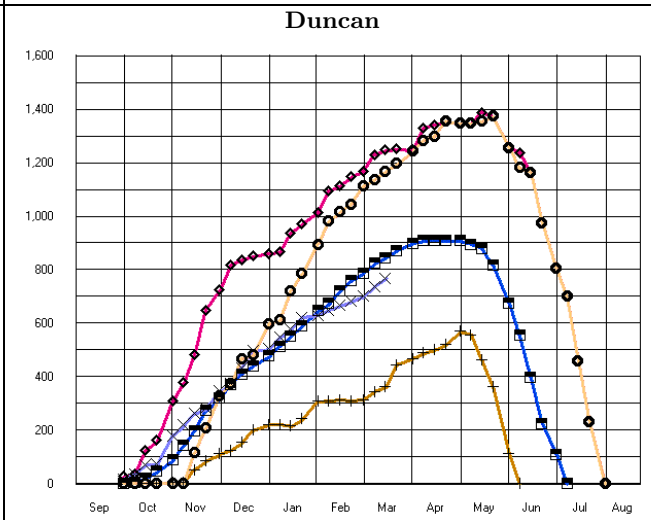
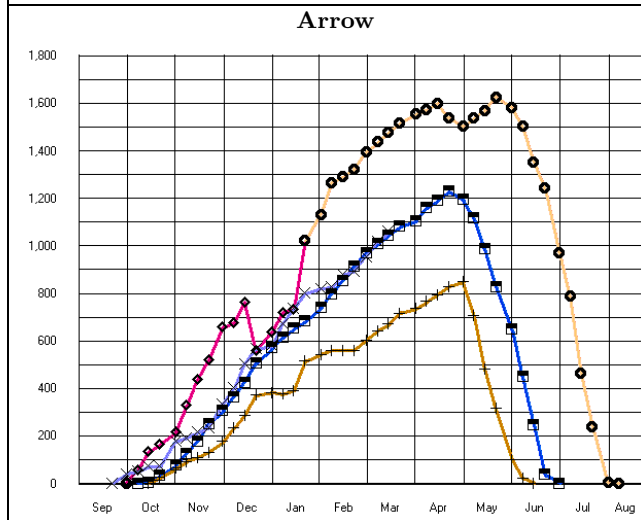
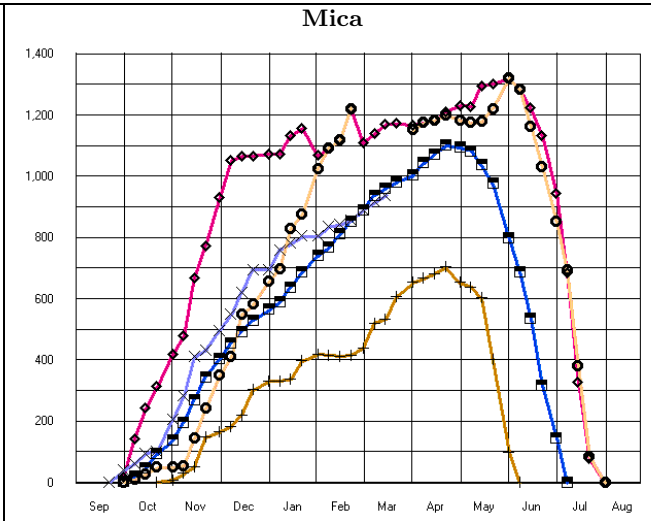
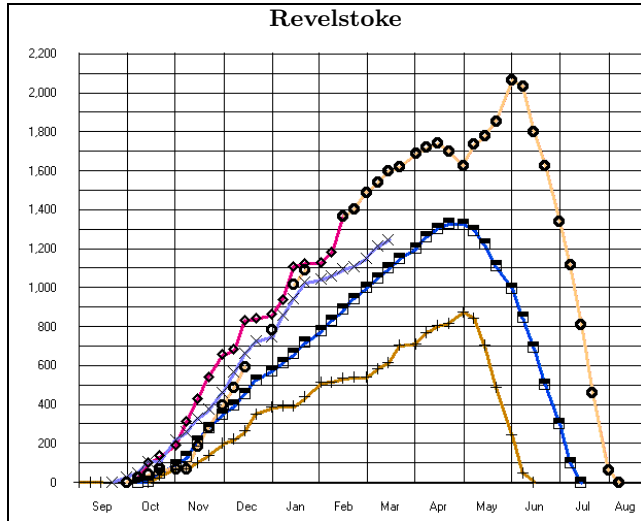
Columbia River Basin: Sorted Snow Measurements (SWE inches)



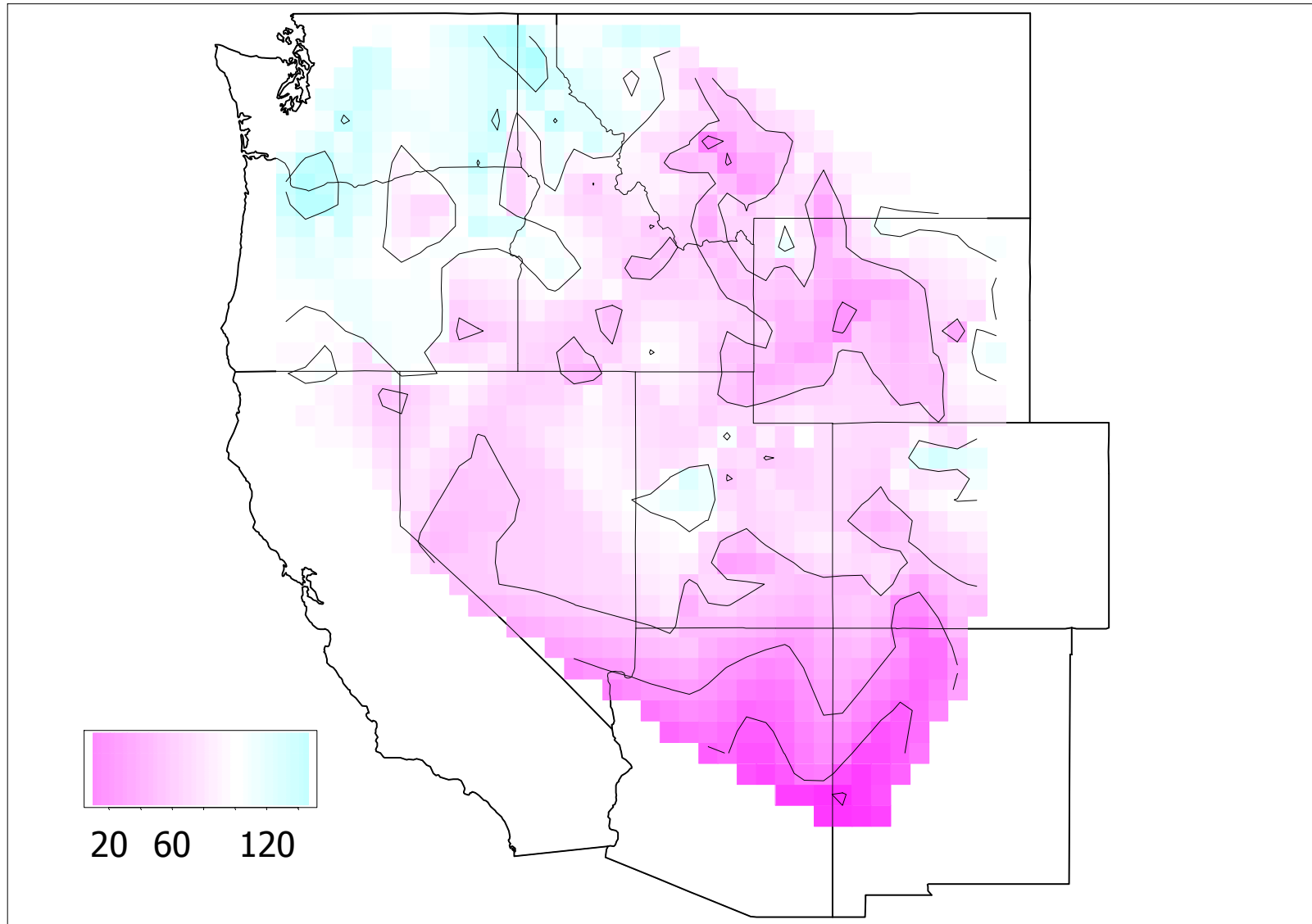
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March 21, 2000

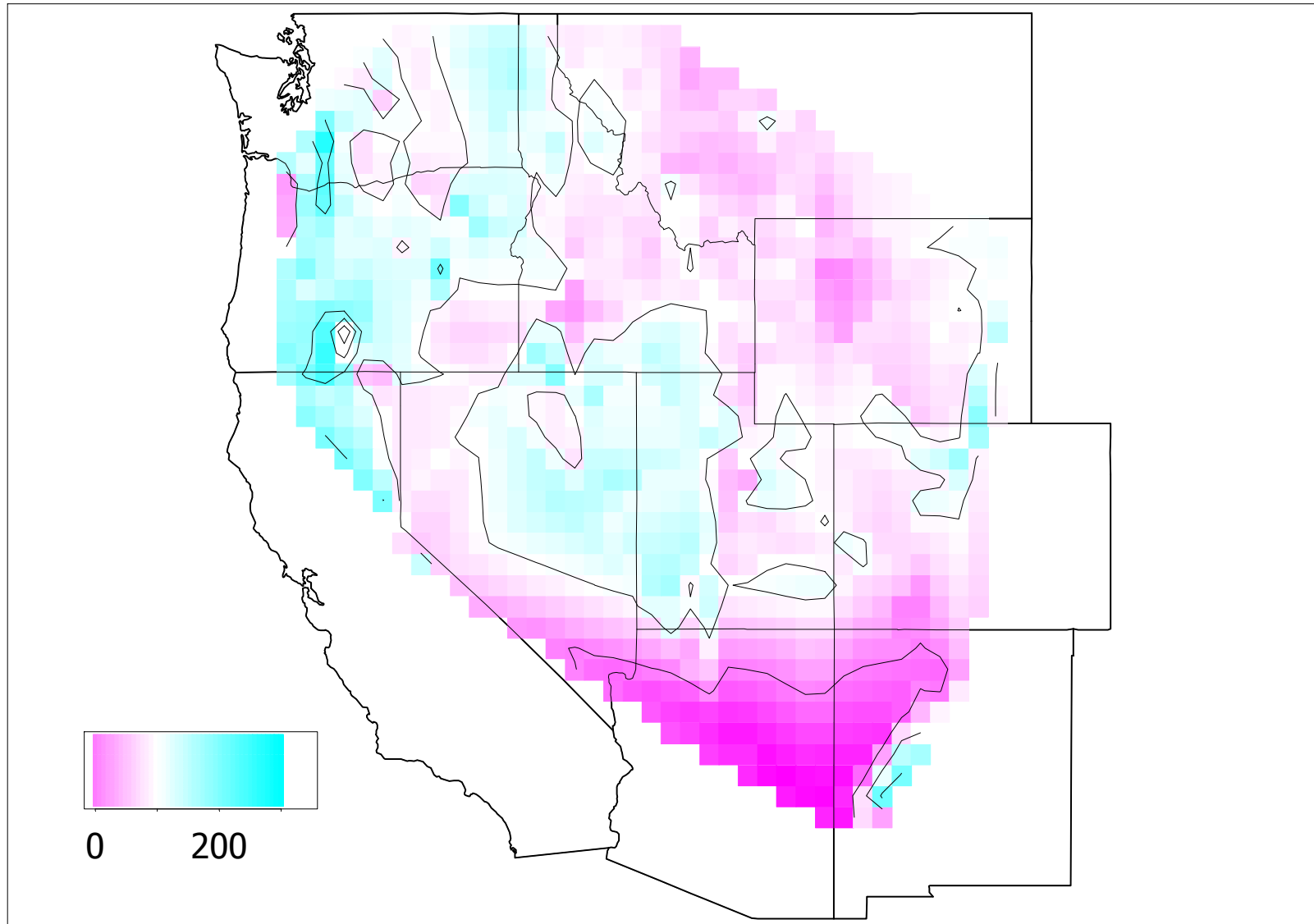
British Columbia Snow Depth (SWE mm)



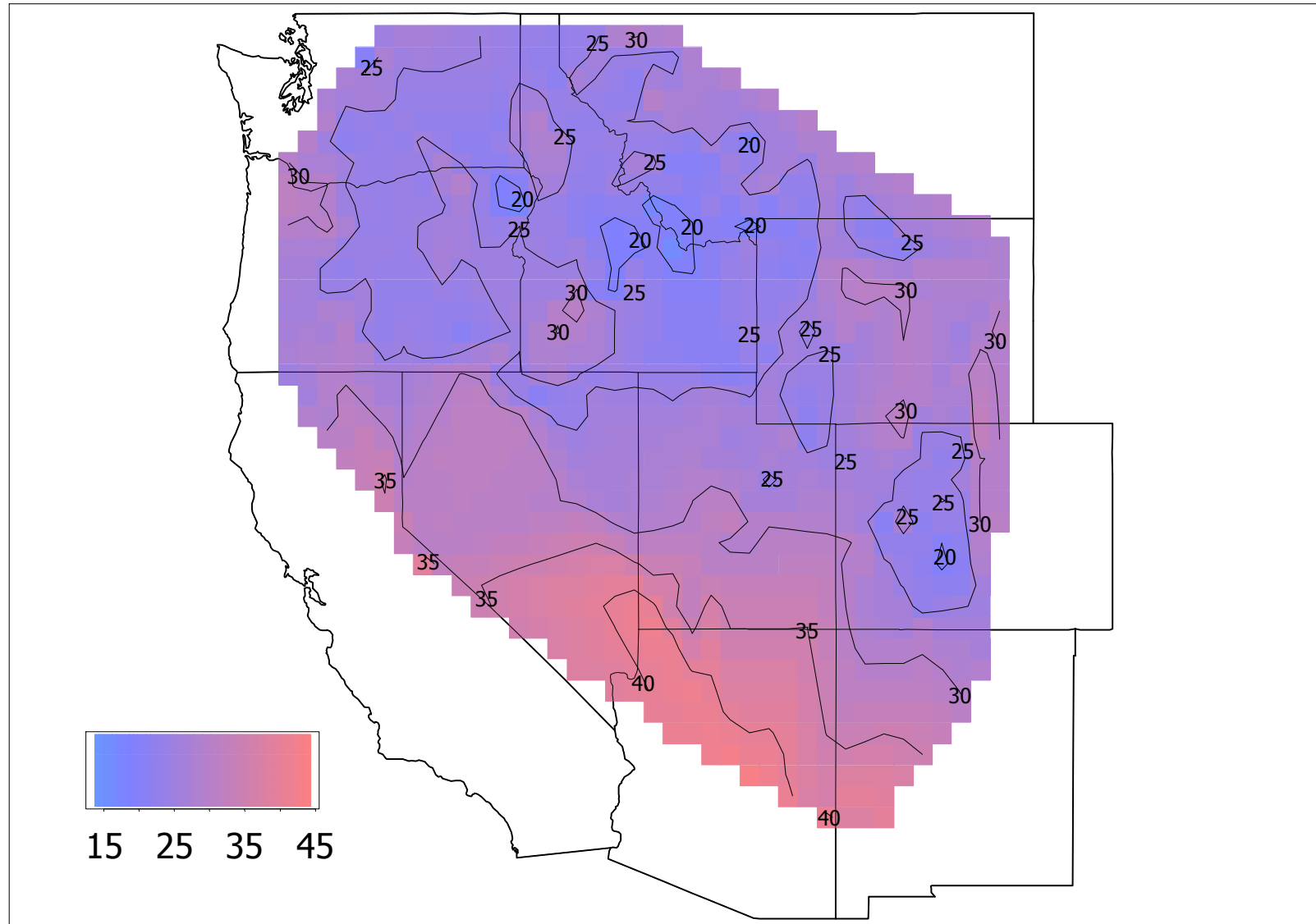
SNOTEL Cumulative Precipitation as Percent of Normal All Stations



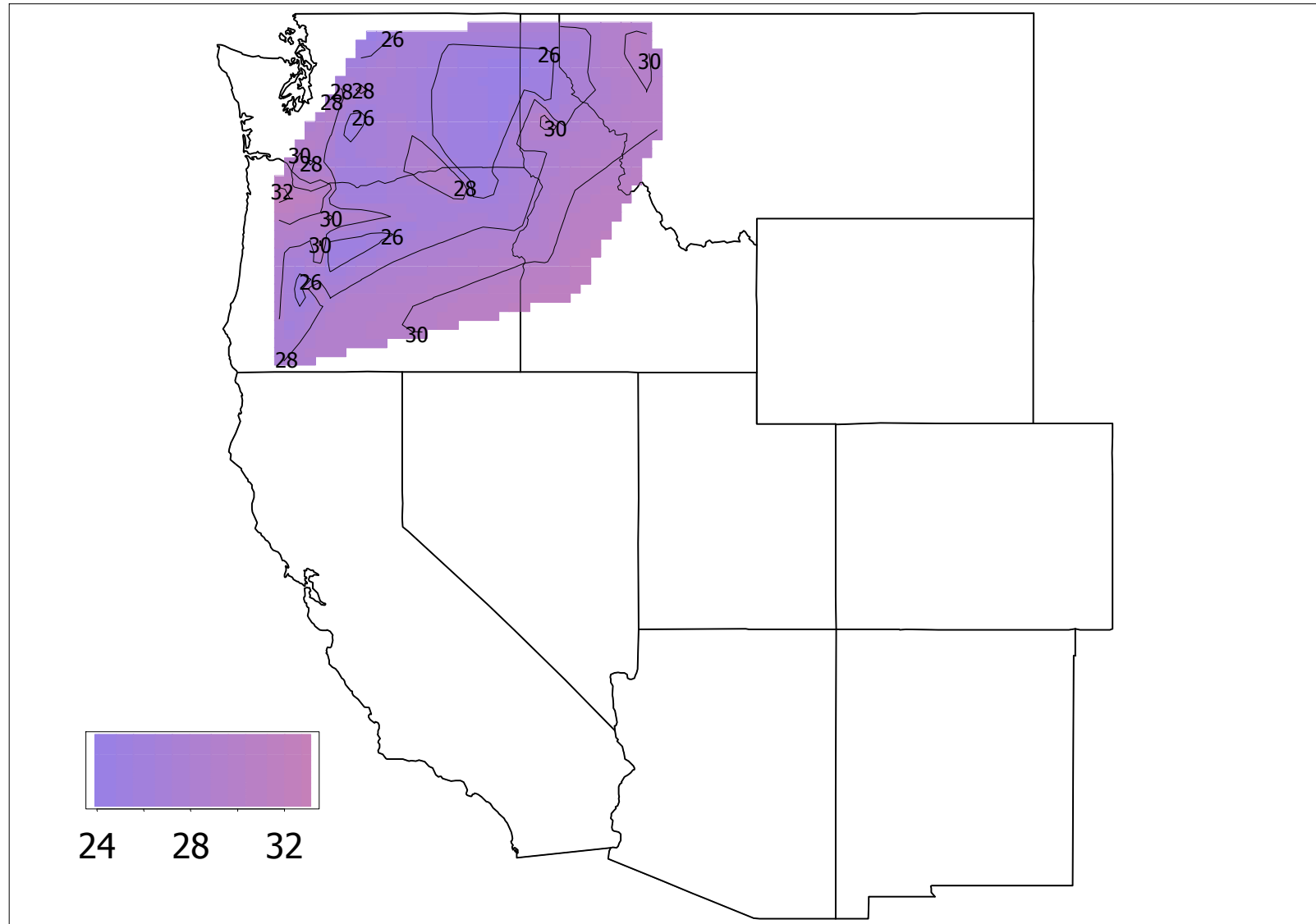
SNOTEL Snow Water Equivalent as Percent of Normal All Stations



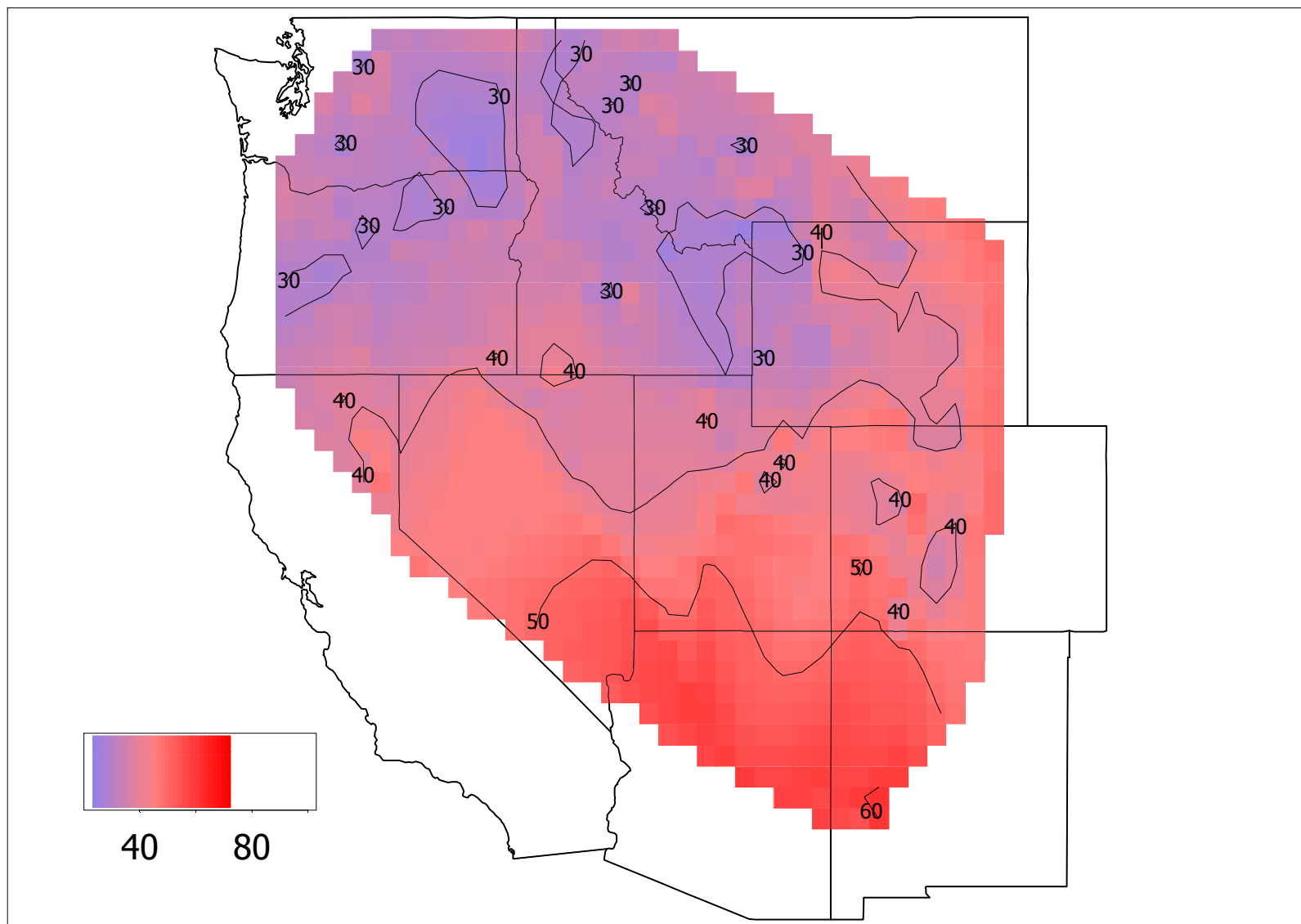
SNOTEL Daily Average Temperatures All Stations



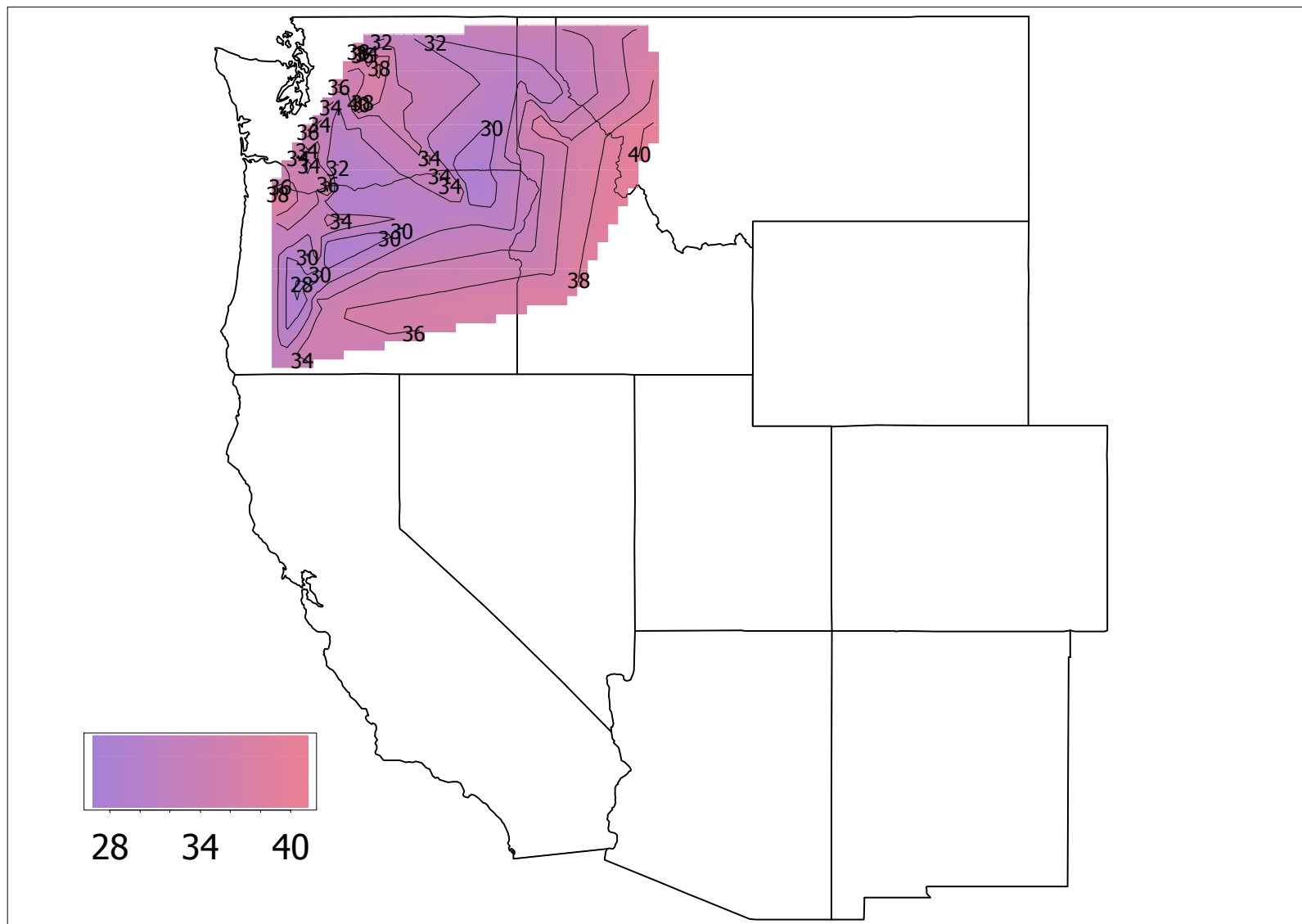
SNOTEL Daily Average Temperatures Stations Below 5000 Feet



SNOTEL Daily Maximum Temperatures All Stations

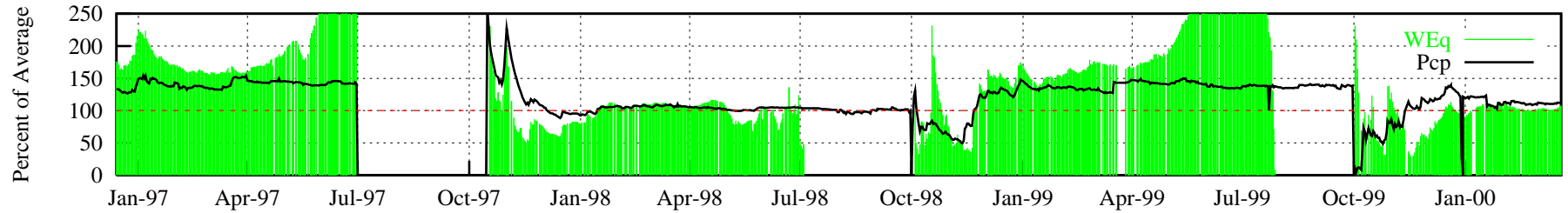


SNOTEL Daily Maximum Temperatures Stations Below 5000 Feet

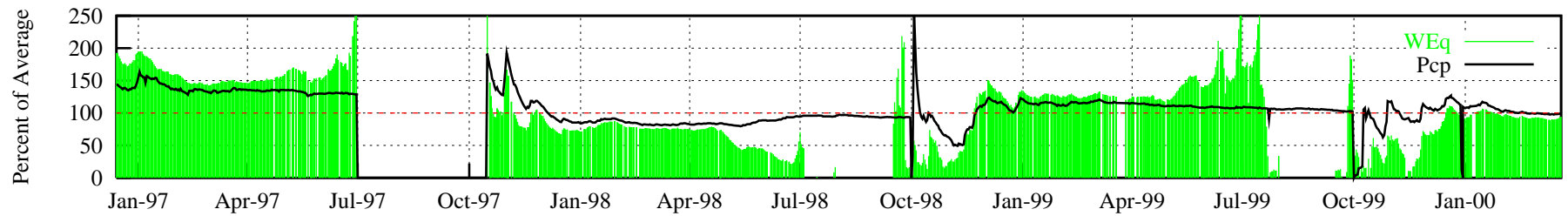


Pacific Northwest Snow Summary
January, 1997 - Present

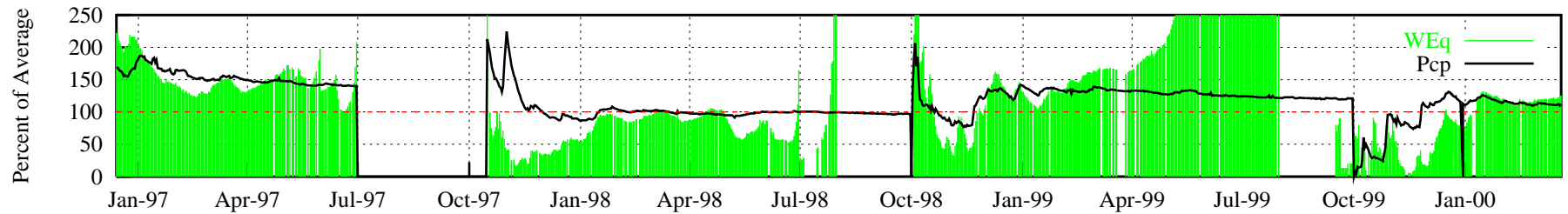
Upper Columbia Index



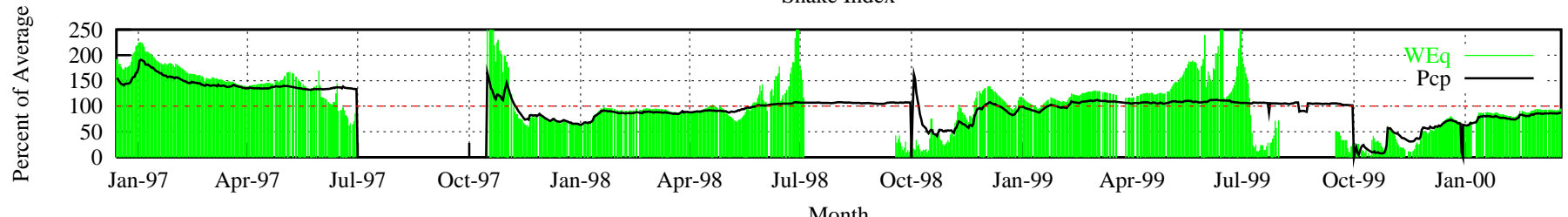
Kootenai / Flathead Index



Cascade West Index



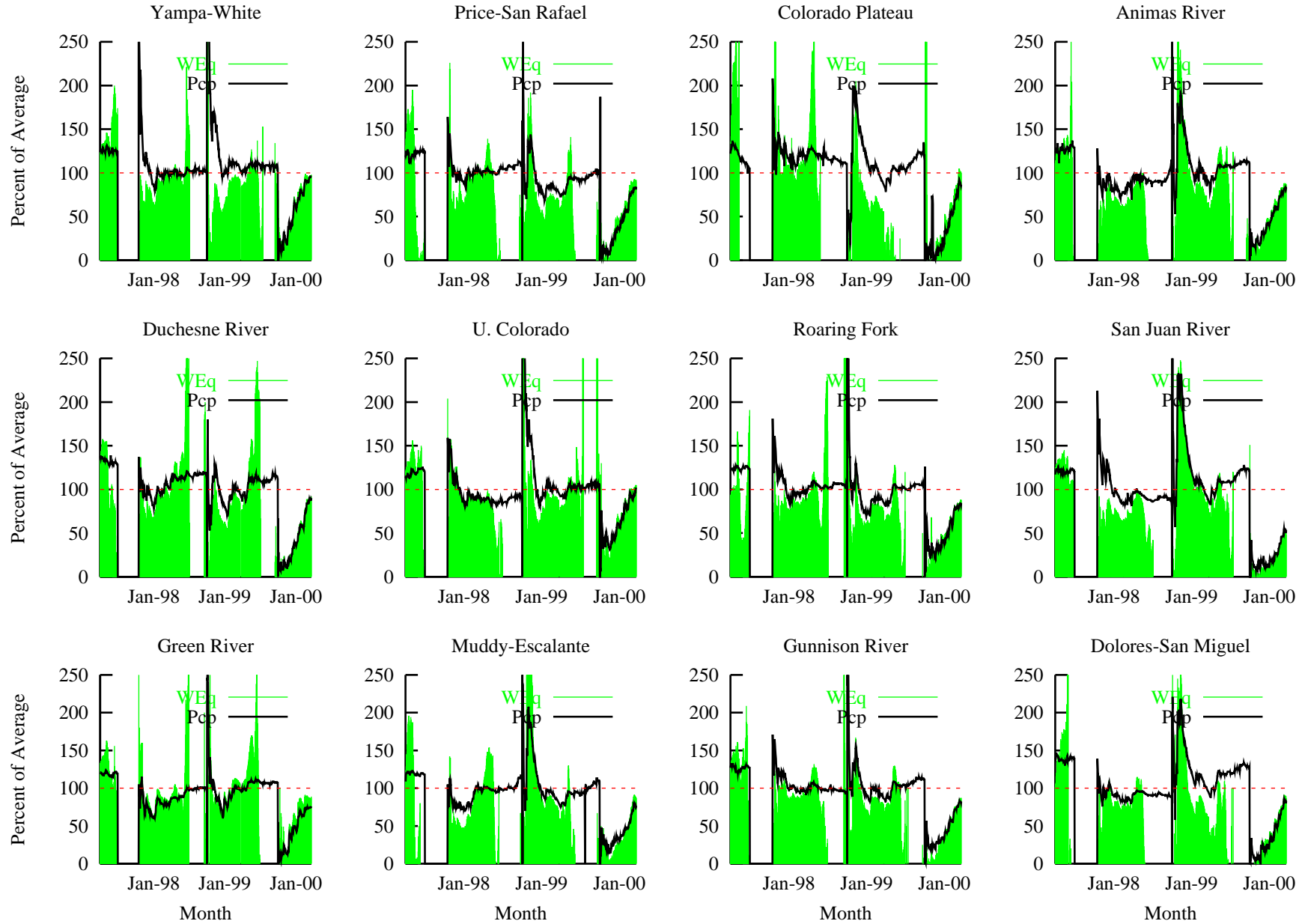
Snake Index



Month

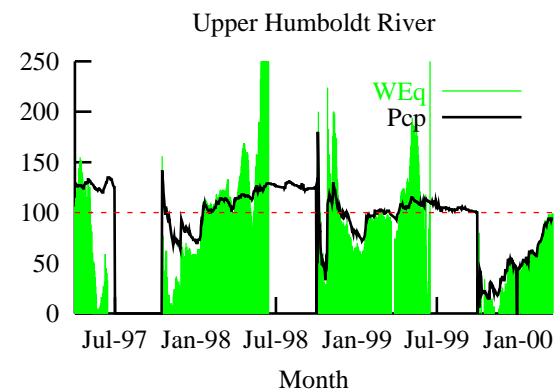
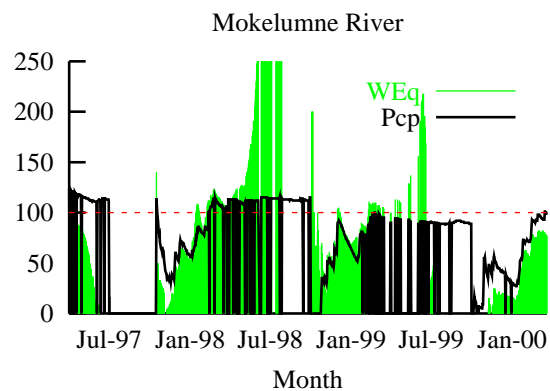
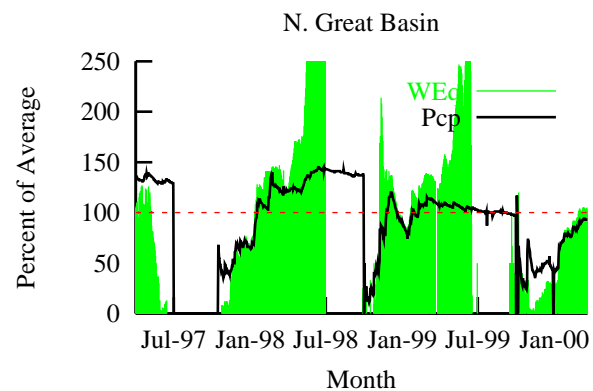
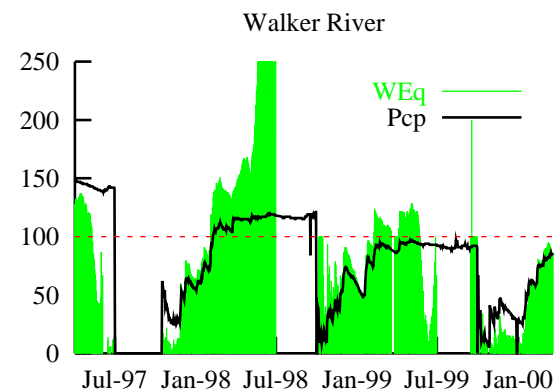
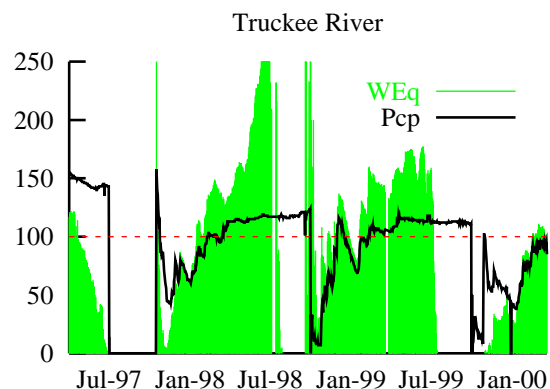
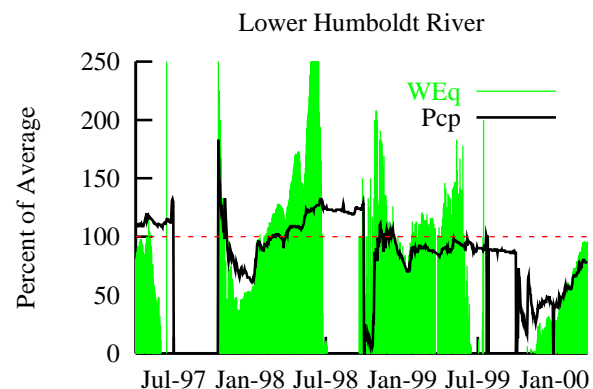
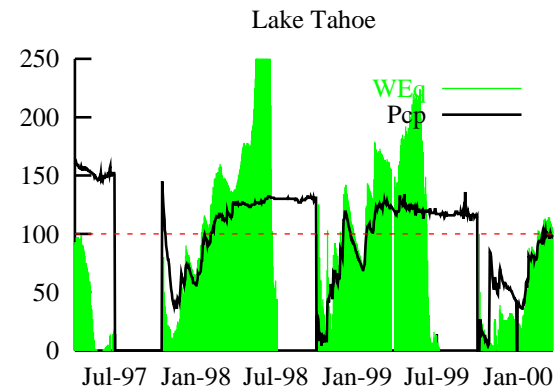
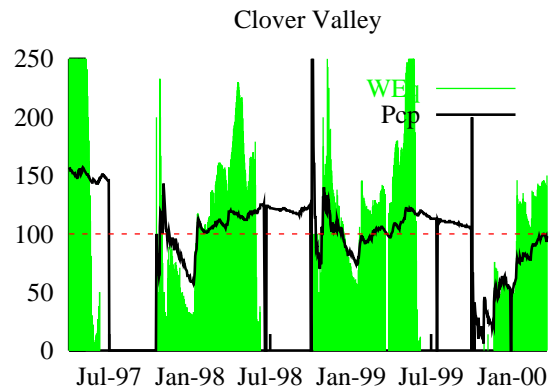
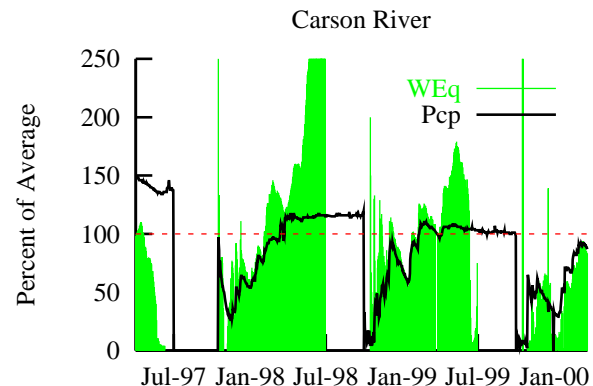
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Colorado River Basin Snow Summary April, 1997 - Present



Confidential

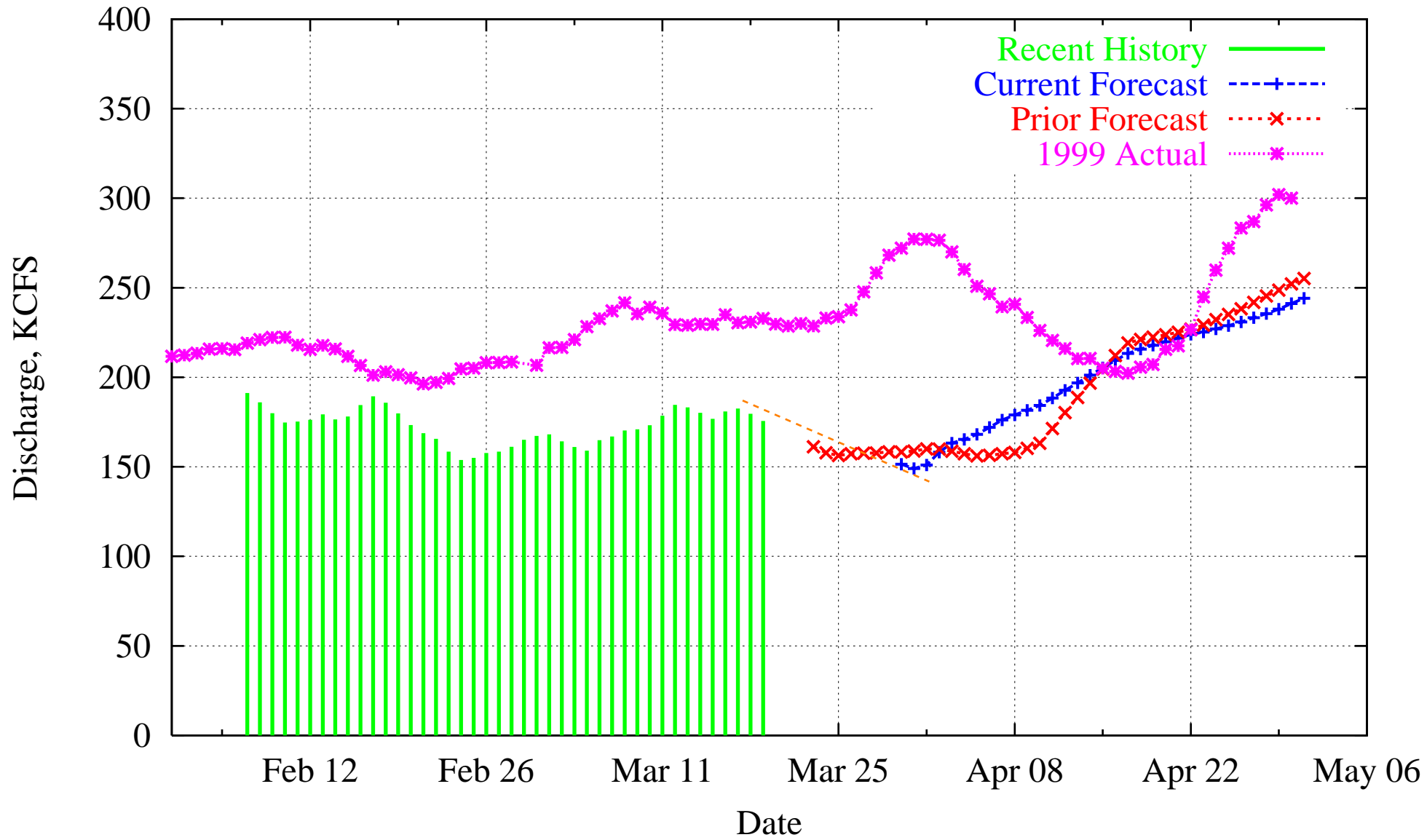
California / Nevada Snow Summary April, 1997 - Present



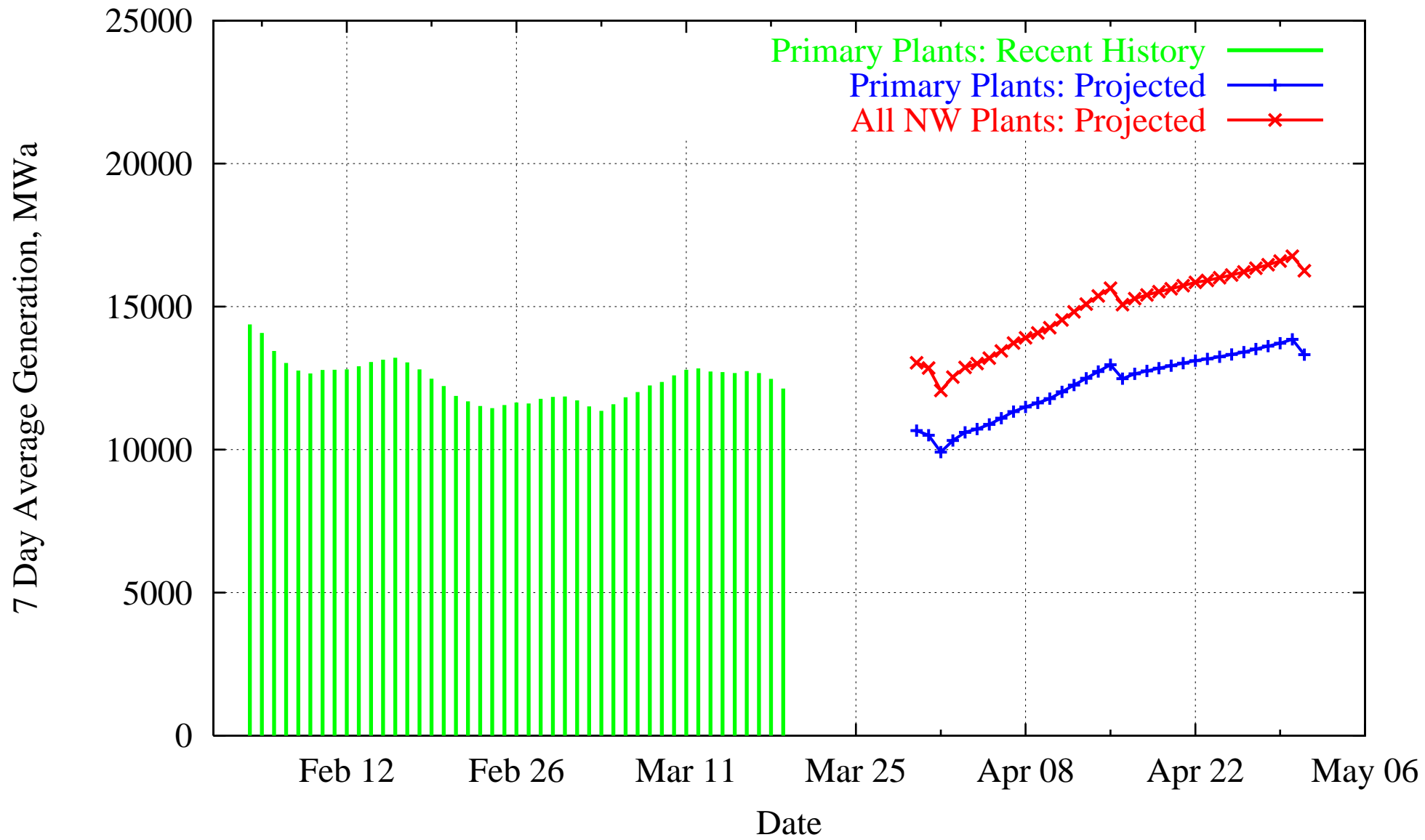
Confidential

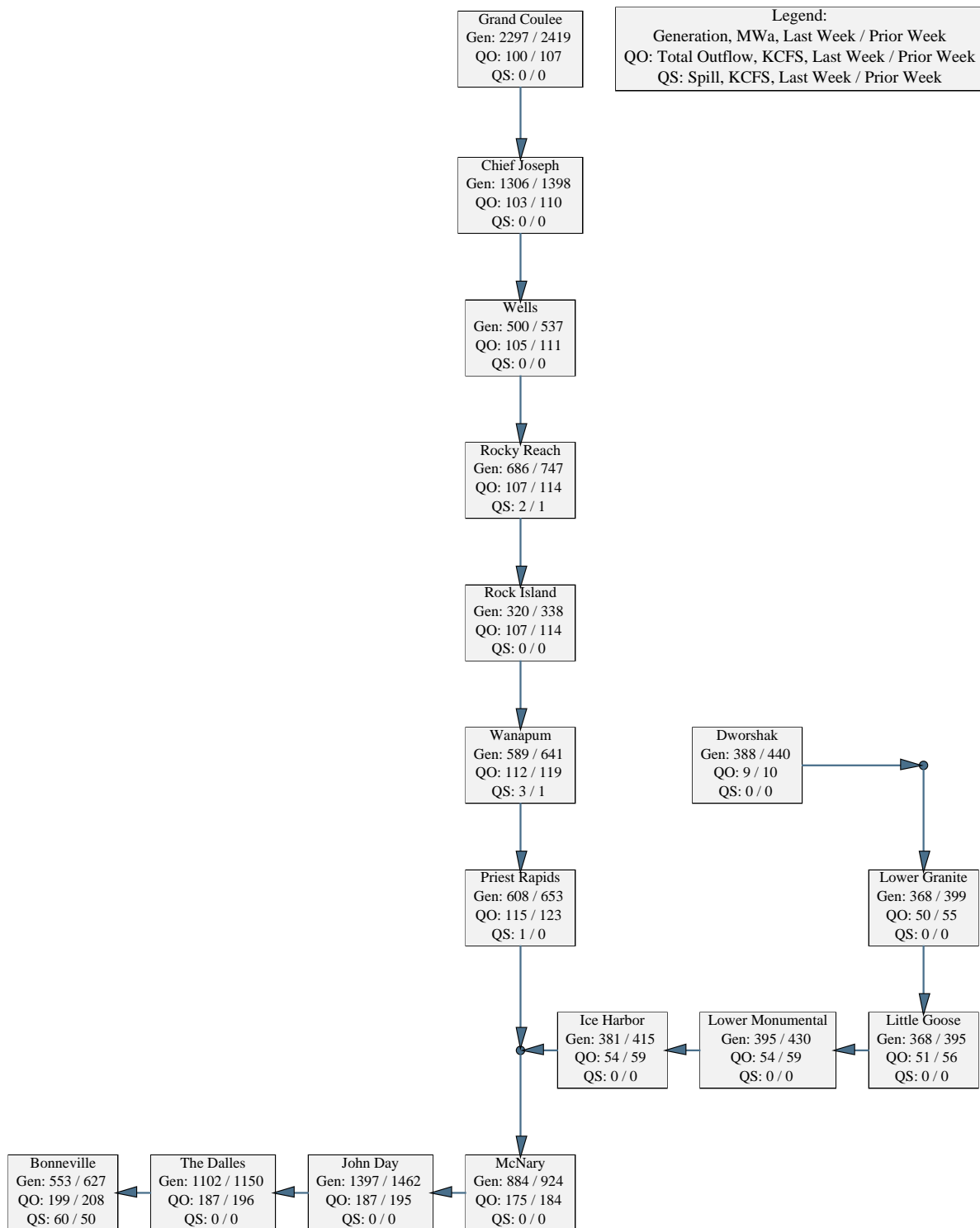
March 21, 2000

McNary Discharge History & Forecasts: 7 Day Moving Averages



Northwest Hydro Production Recent History & Current Forecasts



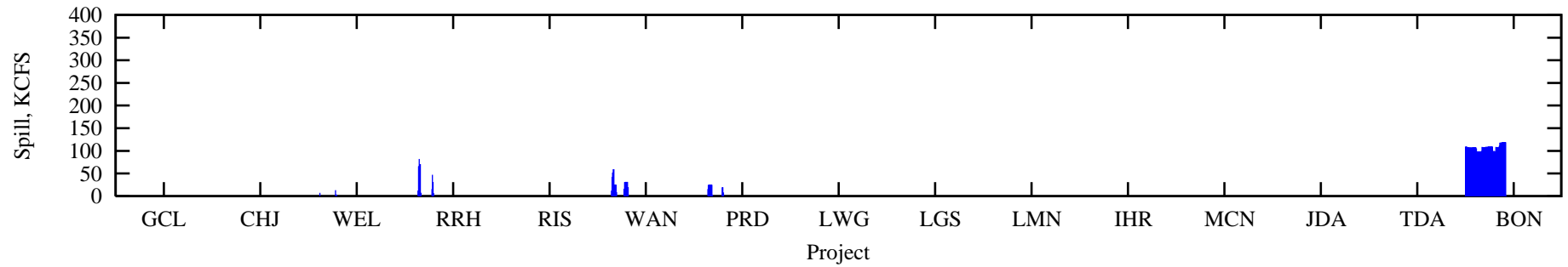


Columbia River and Snake River
 Hydroelectric Plant Operations
 7 Day Averages
 March 21, 2000

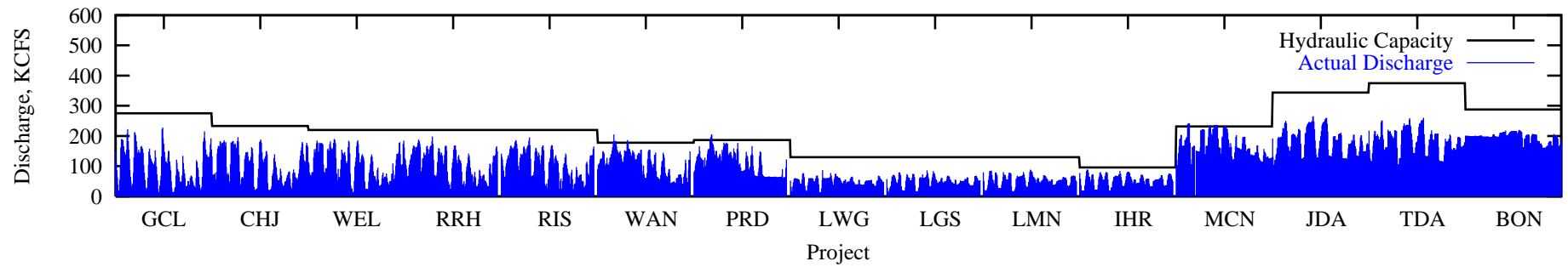
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Columbia & Lower Snake River Hourly Operations

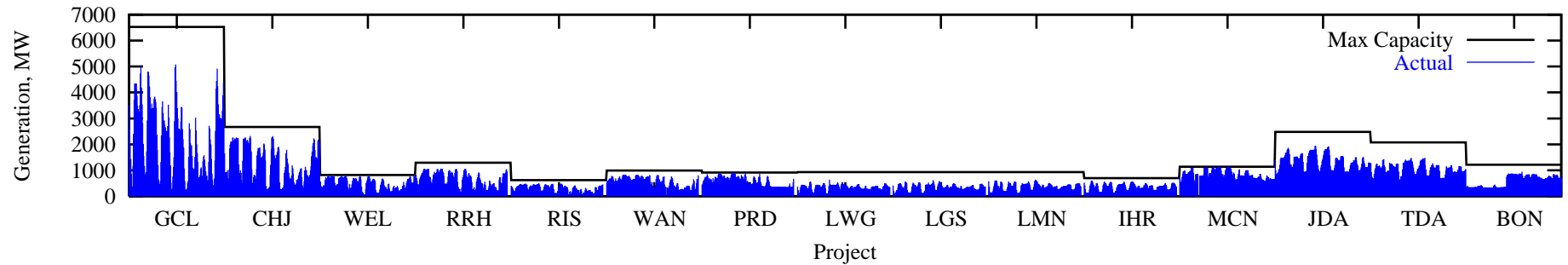
Spill
168 Hours Ending 2100, March 20, 2000



Total Discharge
168 Hours Ending 2100, March 20, 2000



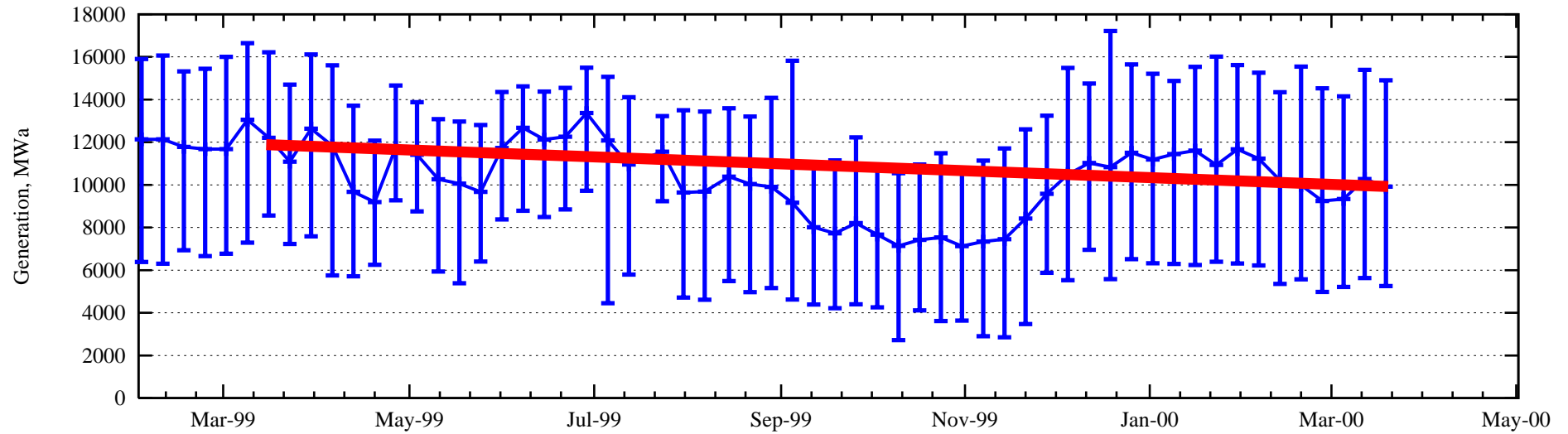
Generation
168 Hours Ending 2100, March 20, 2000



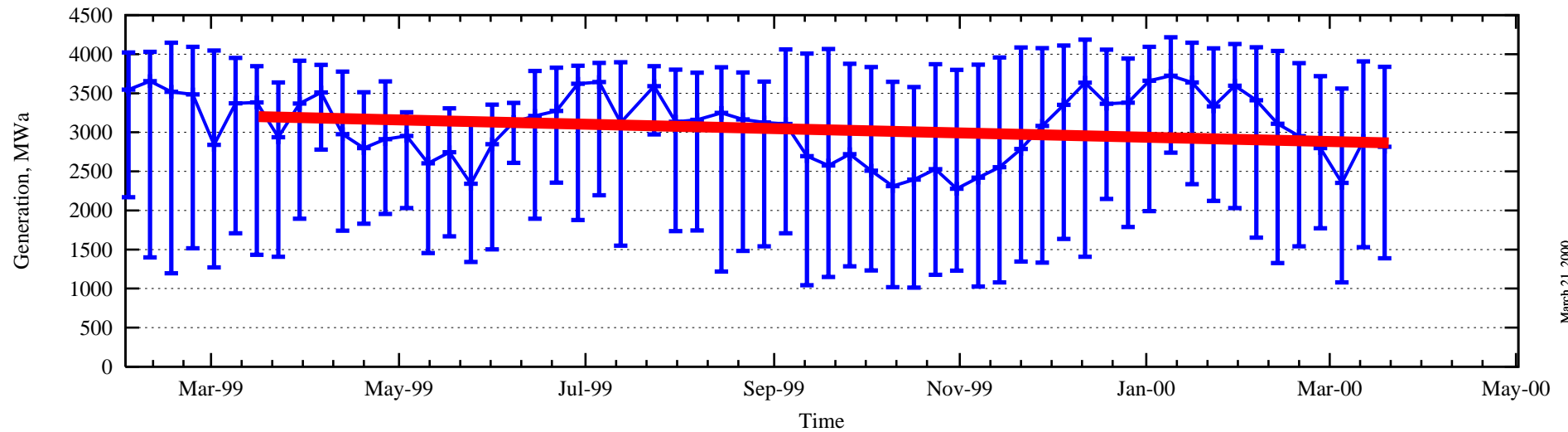
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Weekly High / Low / Average Hydro Generation
Last 13 Months

Federal Snake, Columbia, Willamette Production

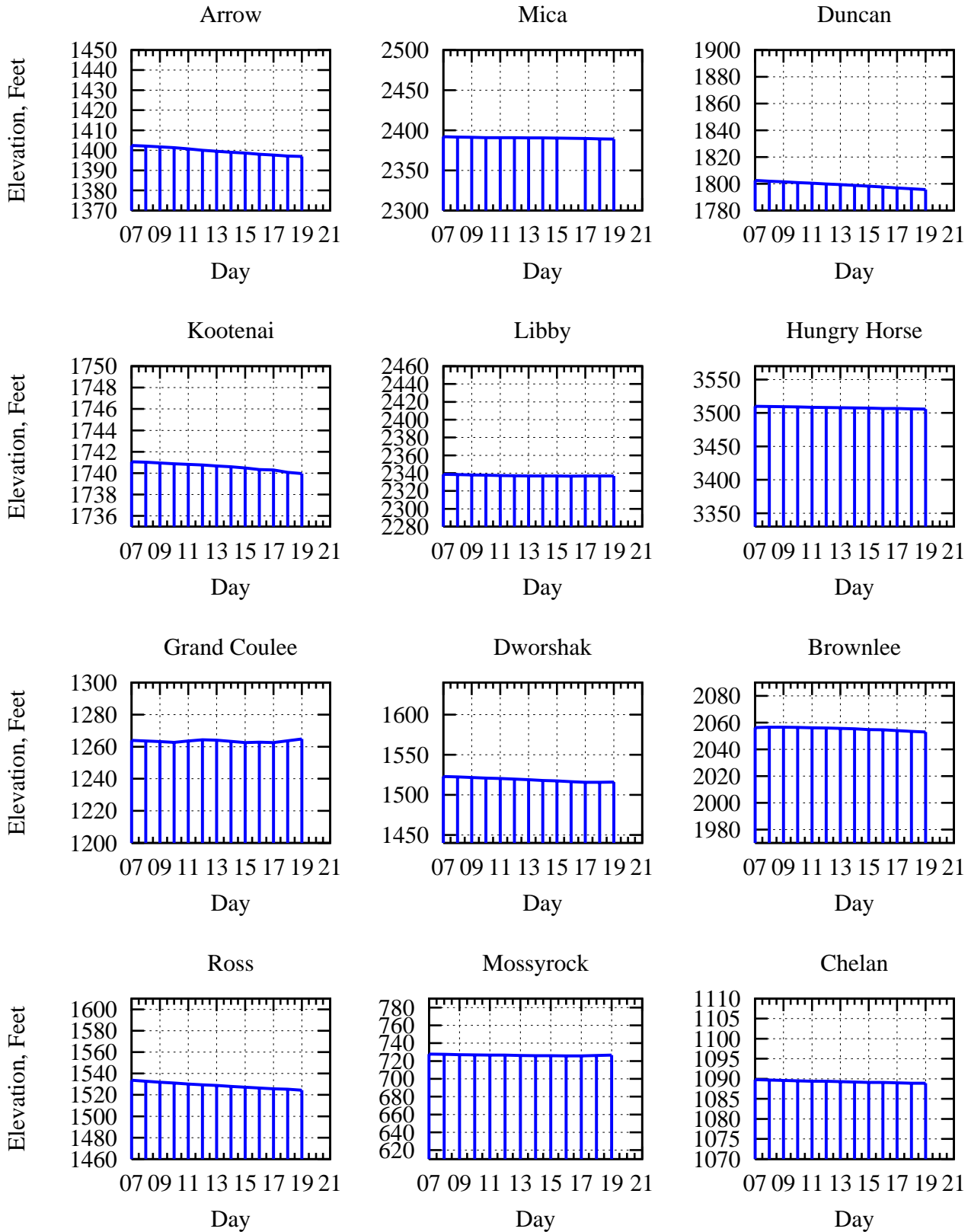


Non-Federal Mid-Columbia Production



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Daily Reservoir Elevation Summary

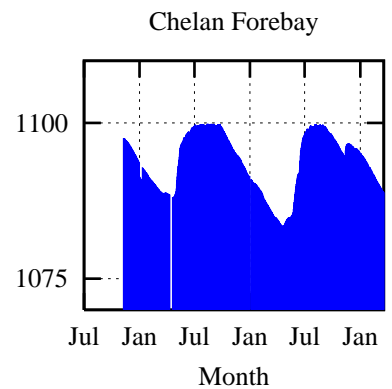
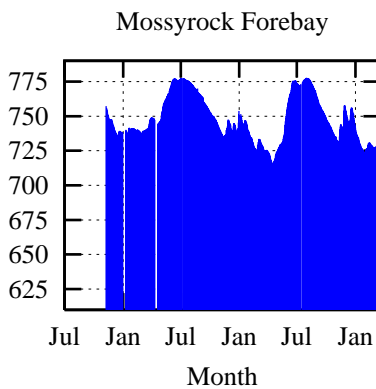
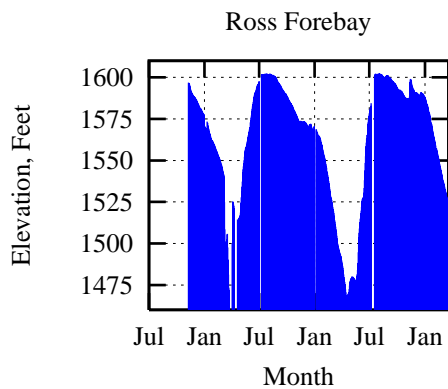
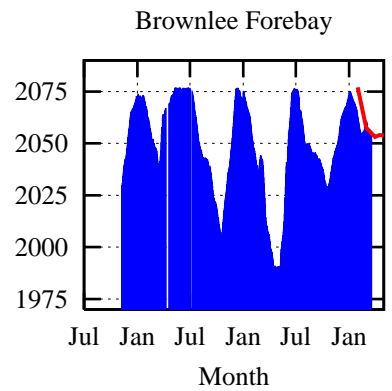
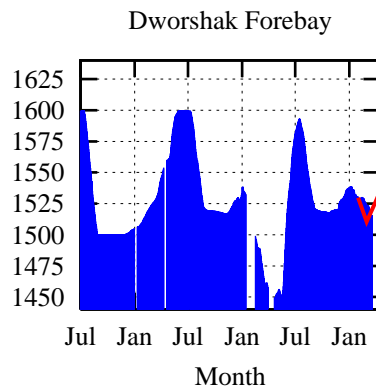
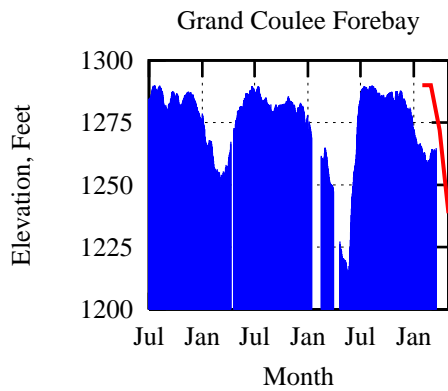
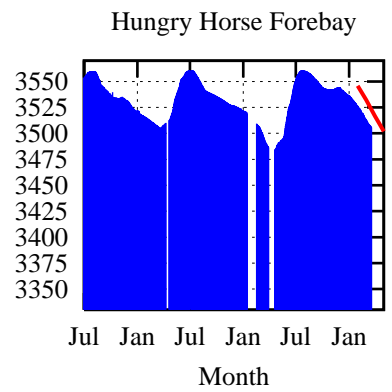
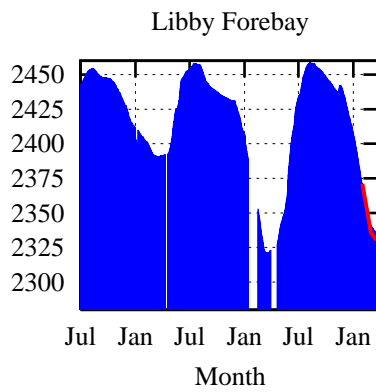
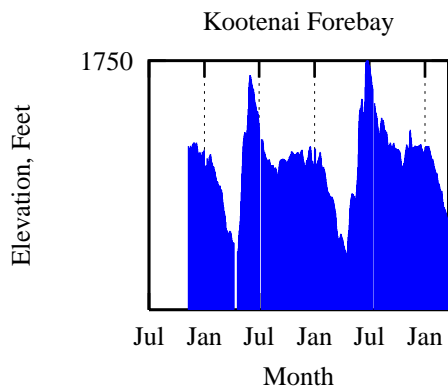
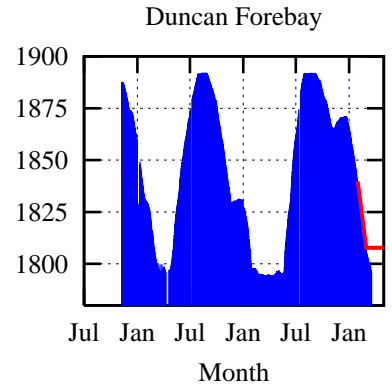
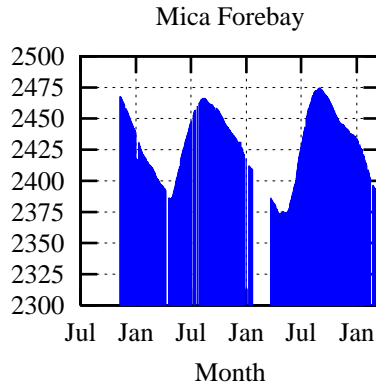
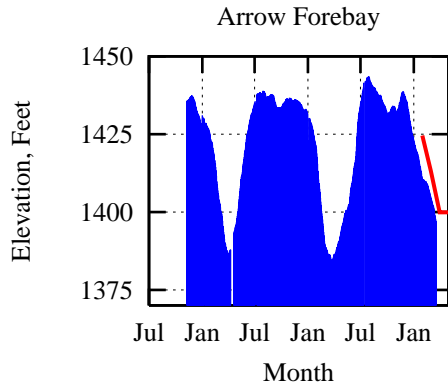


March 21, 2000

Near Term Reservoir Operations
Fill (Draft), Feet

	<u>Arrow</u>	<u>Libby</u>	<u>Duncan</u>	<u>Hungry</u> <u>Horse</u>	<u>Grand</u> <u>Coulee</u>	<u>Brownlee</u>	<u>Dworshak</u>
By Mar 31	2.9	(5.4)	11.7	10.5	7.9	0.1	10.8
By Apr 15	2.9		11.7	3.2	(9.5)	1.0	19.3

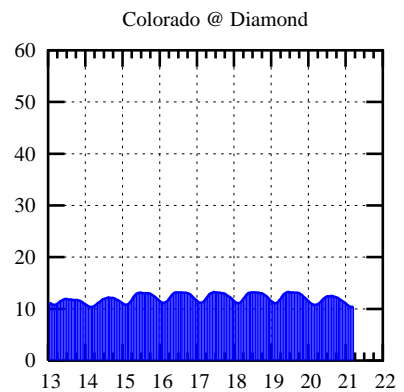
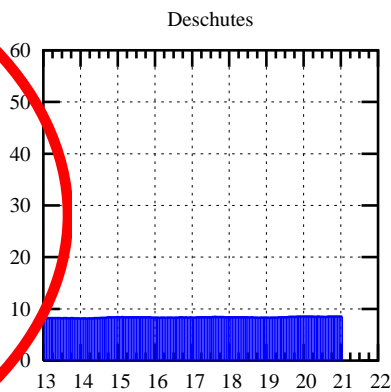
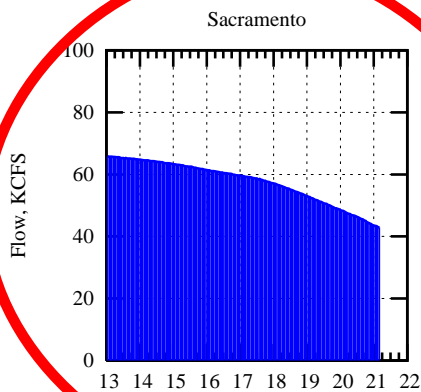
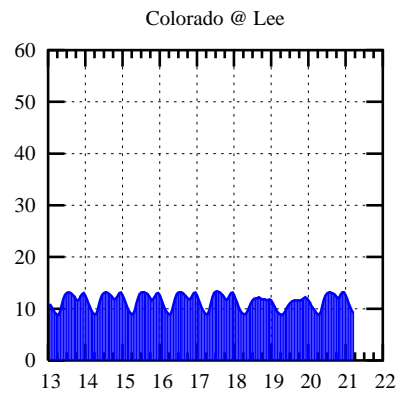
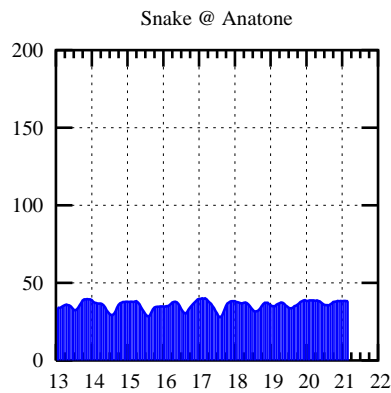
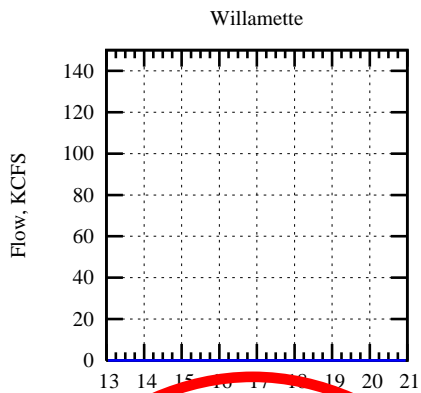
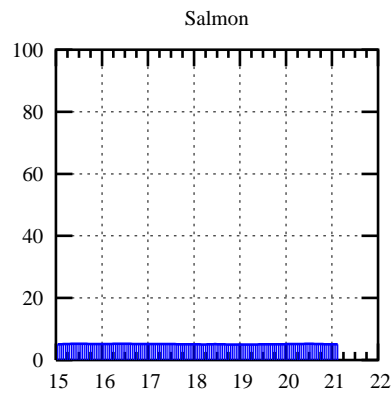
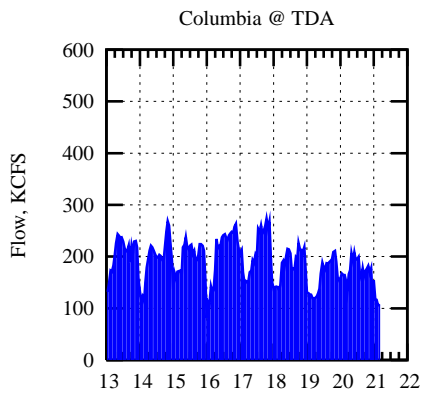
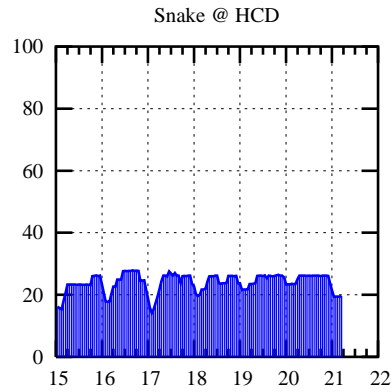
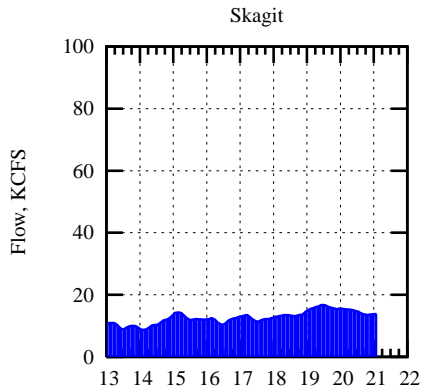
Daily Reservoir Summary July, 1997 - Present



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March 21, 2000

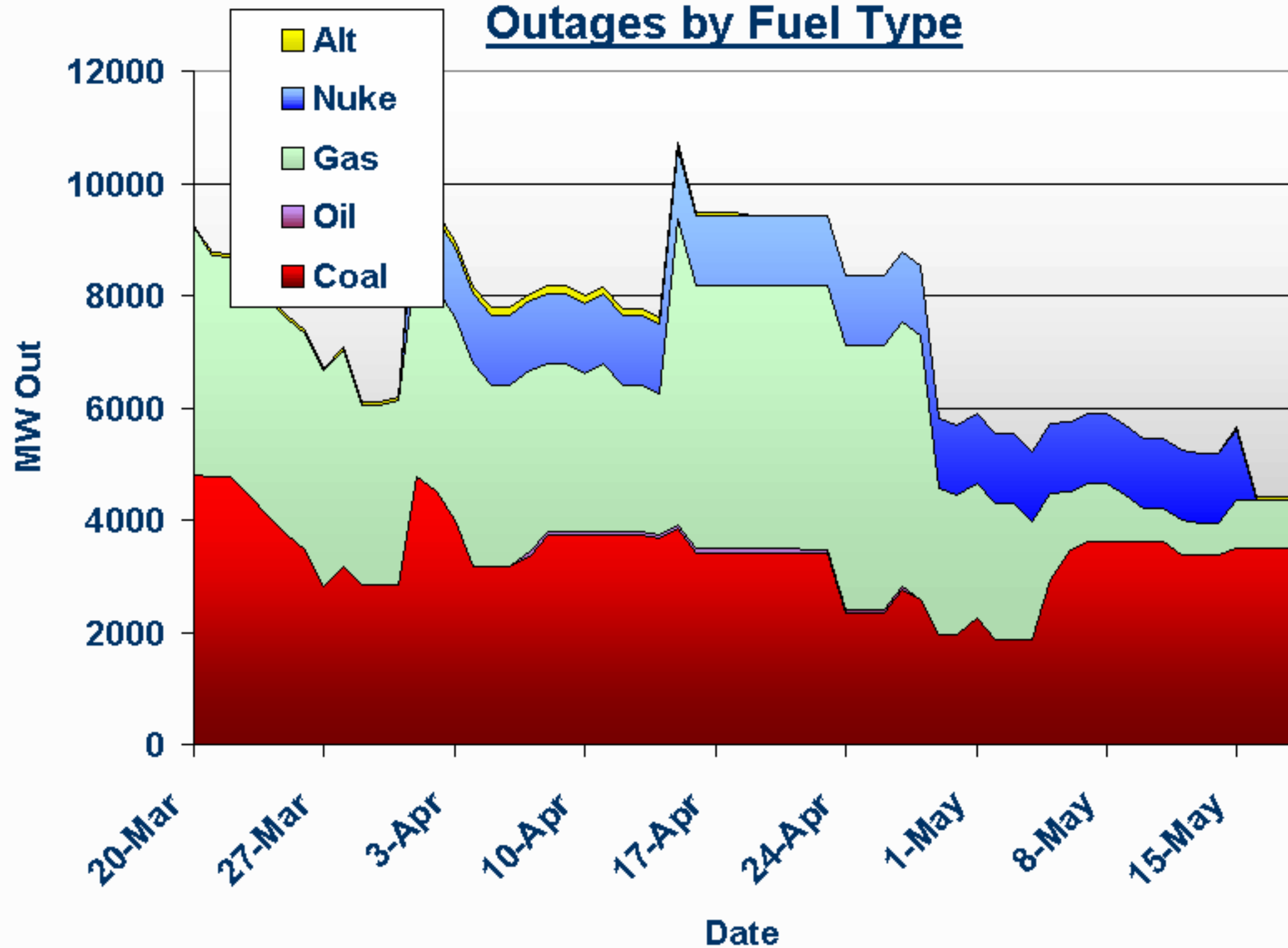
USGS Western Daily River Summary



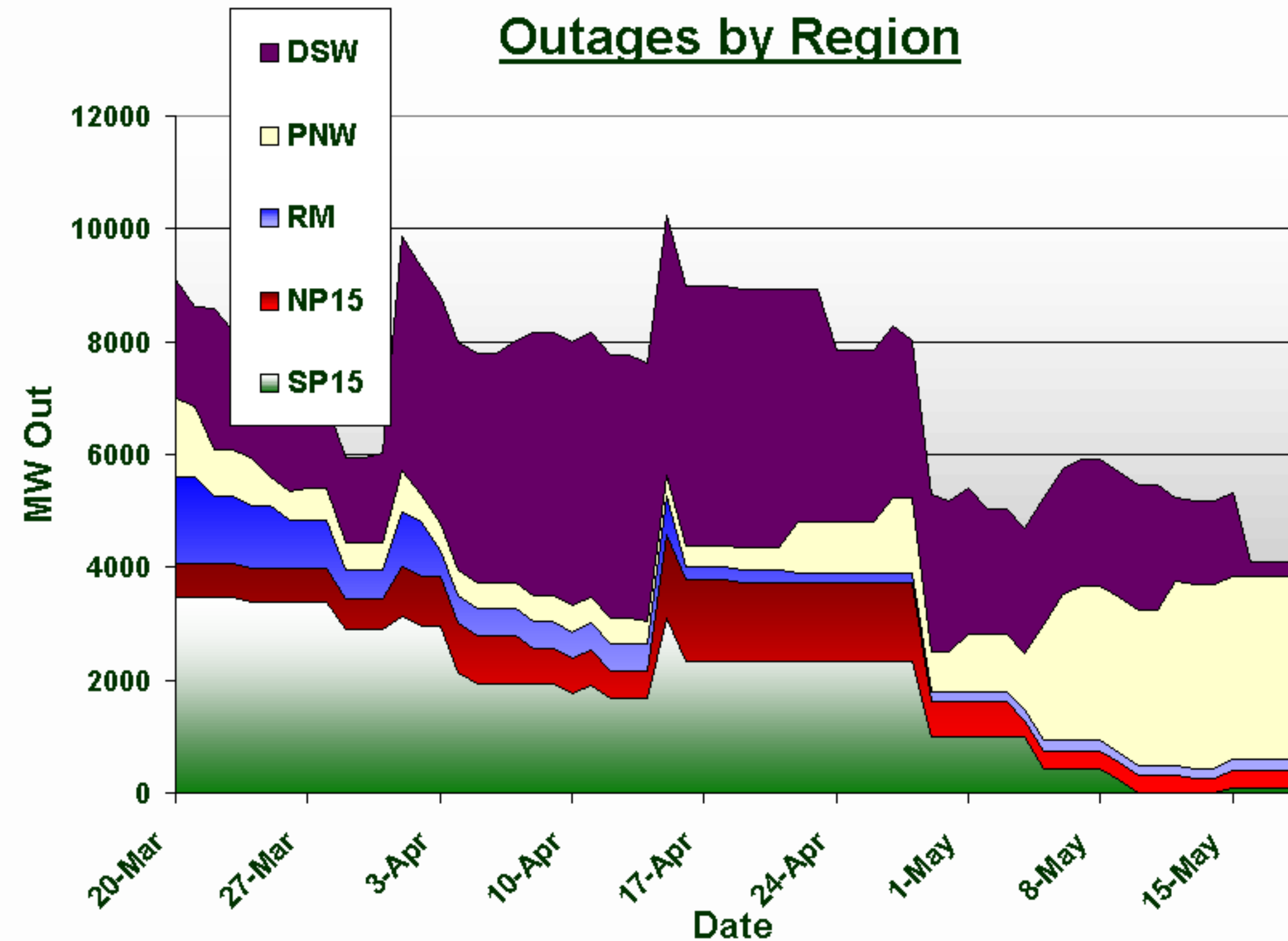
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March 21, 2000

Outages by Fuel Type

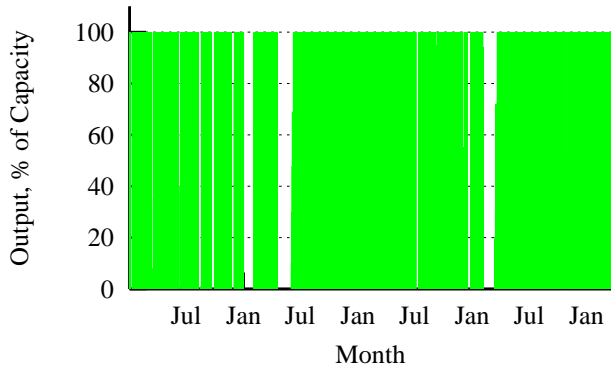


Outages by Region

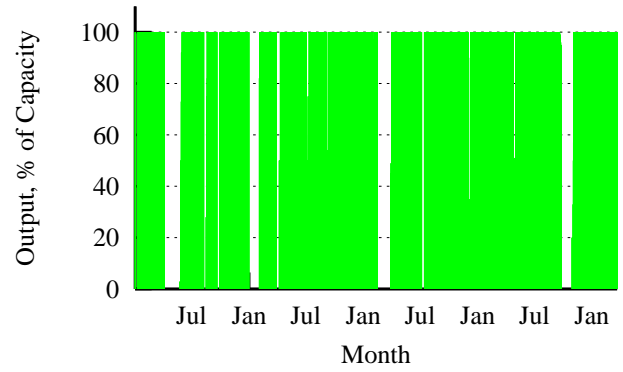


**Nuclear Unit Status
Weekdays Only
1996 - Present**

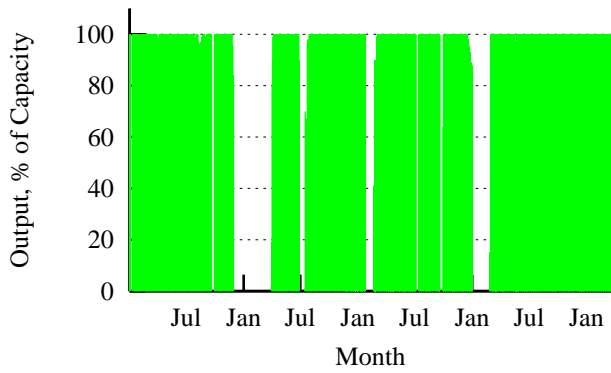
Diablo 1



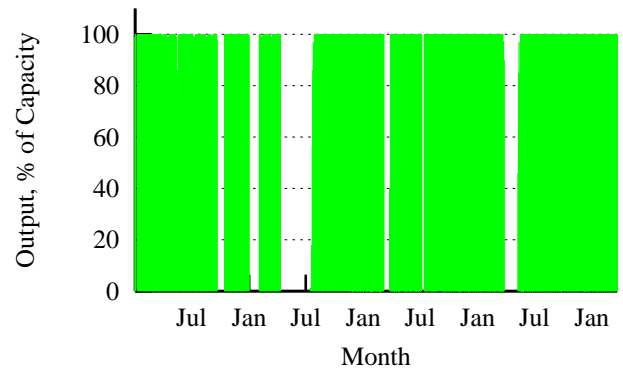
Diablo 2



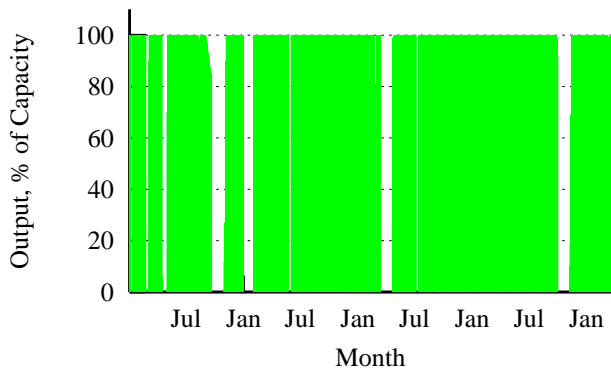
San Onofre 2



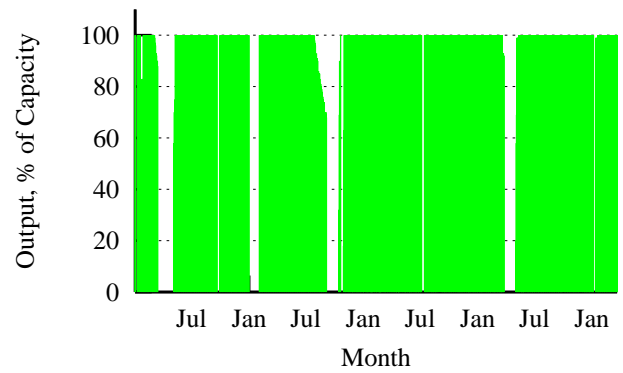
San Onofre 3



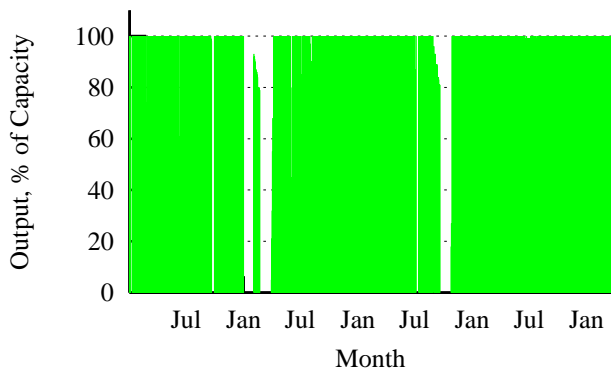
Palo Verde 1



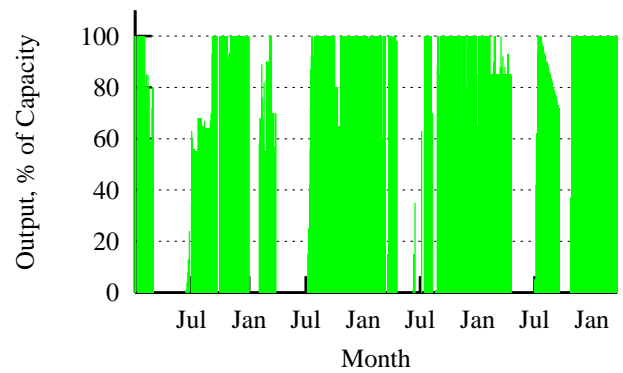
Palo Verde 2



Palo Verde 3



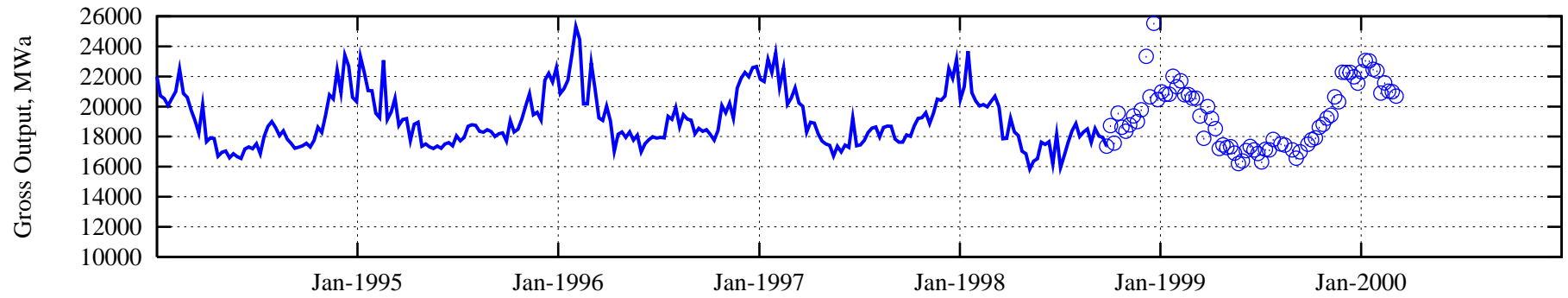
Washington Nuclear Plant 2



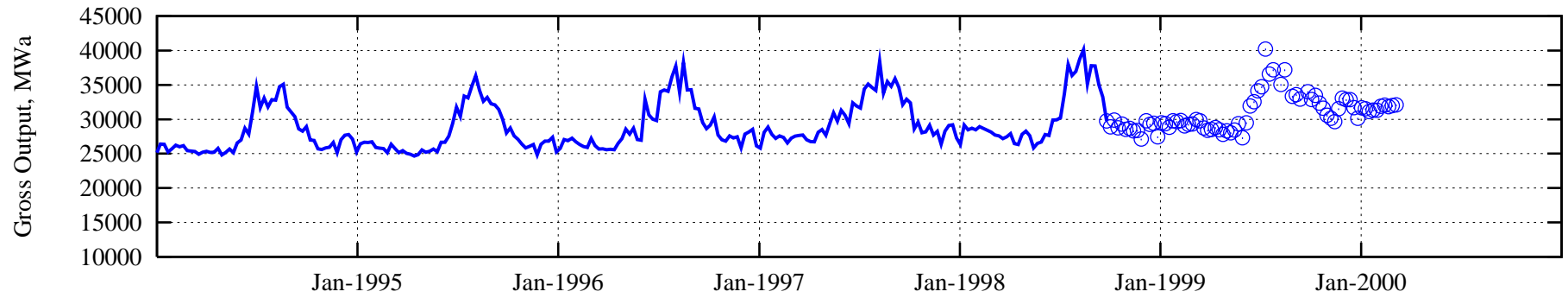
March 21, 2000

EEI Output Statistics
1994 - 1999

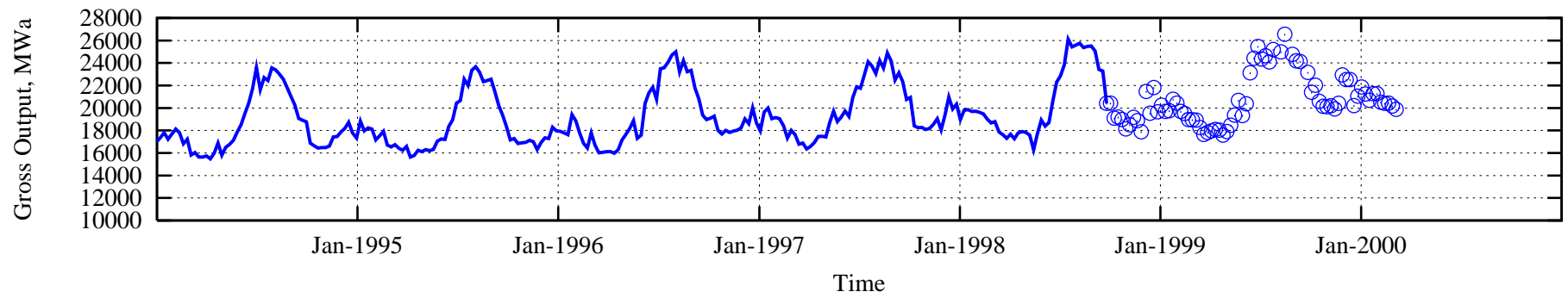
Pacific Northwest Weekly Electricity Production



Pacific Southwest Weekly Electricity Production



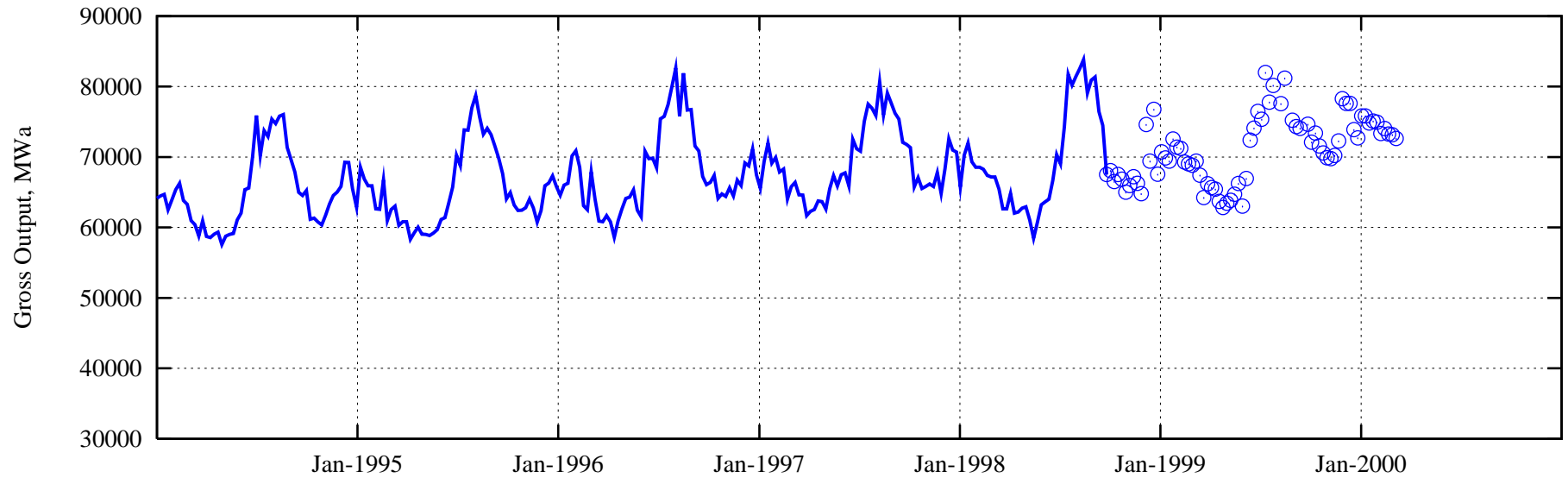
Rocky Mountain Weekly Electricity Production



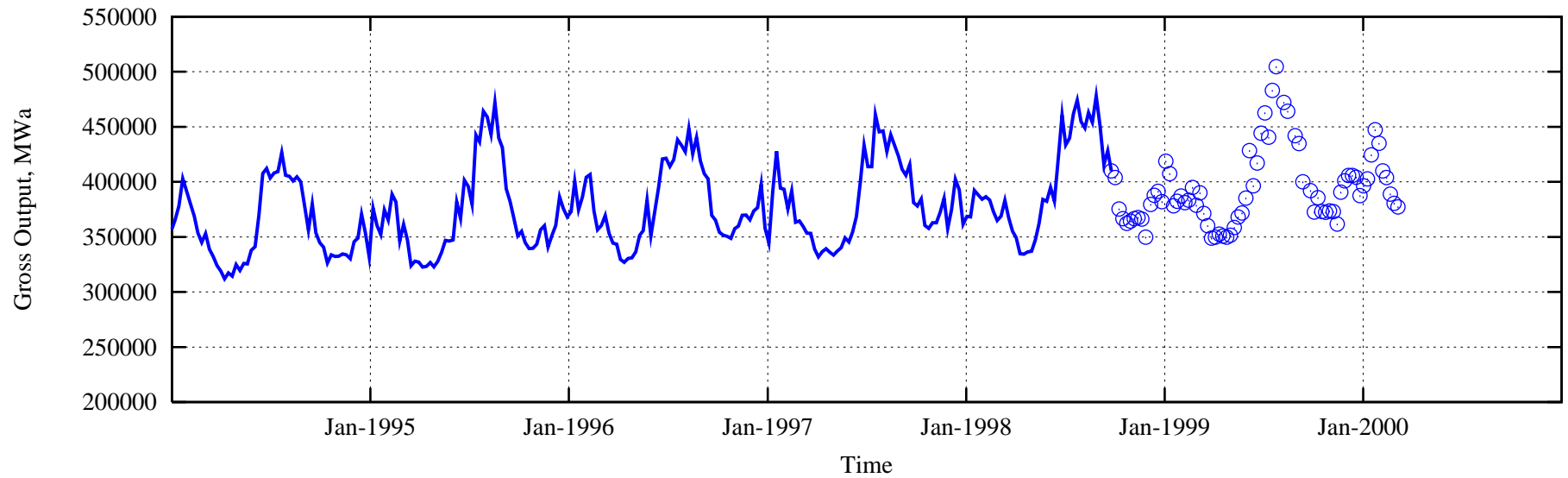
Confidential

EEI Output Statistics
1994 - 1999

WSCC Weekly Electricity Production



US Weekly Electricity Production



Time
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Pacific Coast Intertie Status

