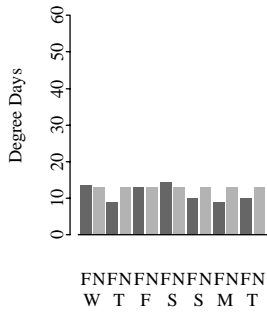
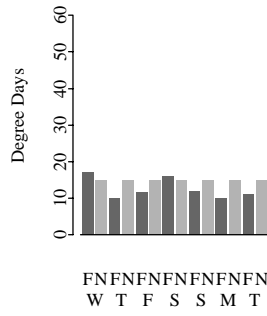


MRF: Forecast and Normal Degree Days for Period Following Apr 25

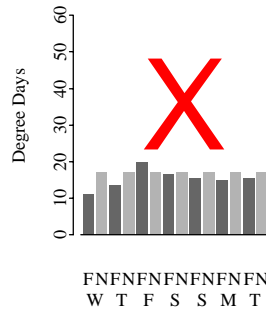
Seattle



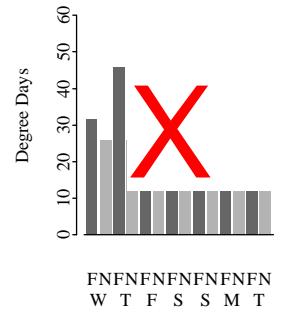
Spokane



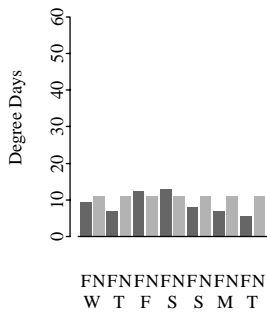
Vancouver



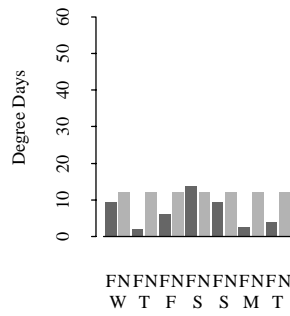
Edmonton



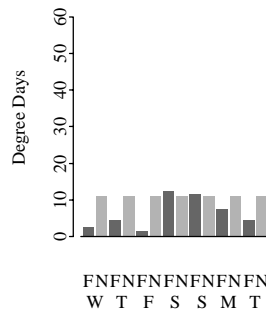
Portland



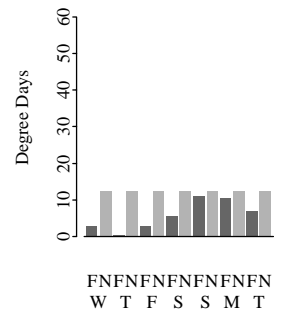
Boise



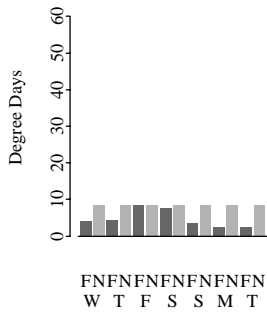
Salt Lake City



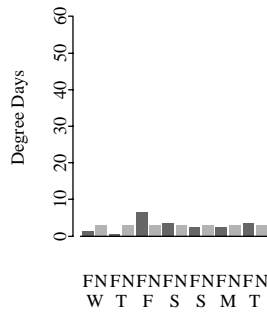
Denver



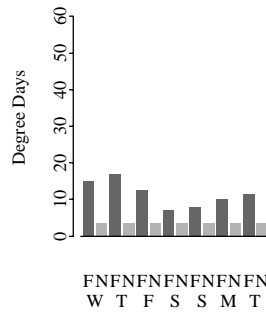
San Francisco



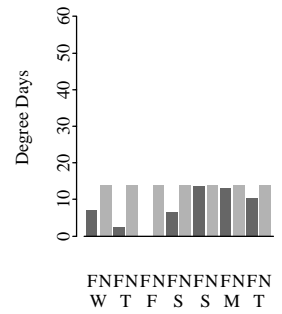
Sacramento



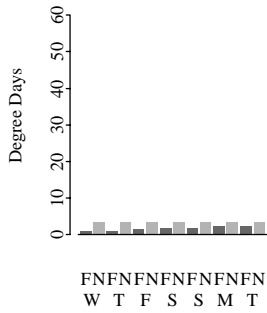
Las Vegas



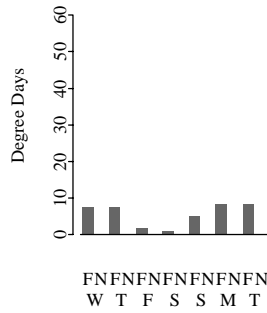
Colorado Springs



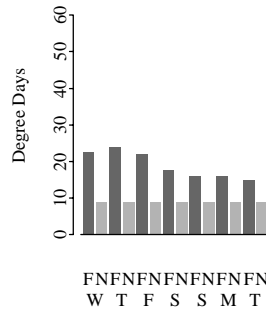
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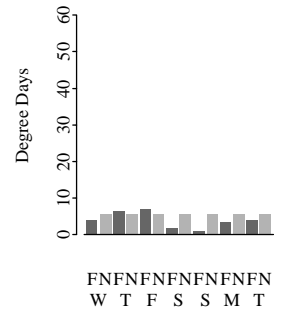
Fresno



Phoenix

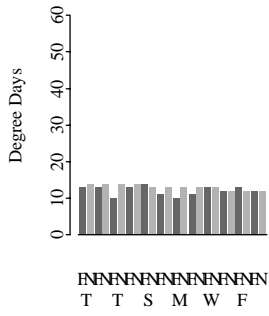


Albuquerque

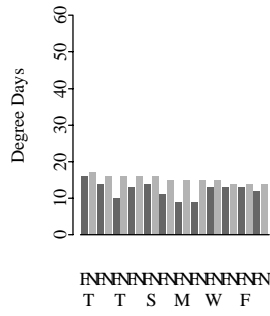


# Earth Satellite Forecast & Normal Degree Days: Period Beginning Apr 25

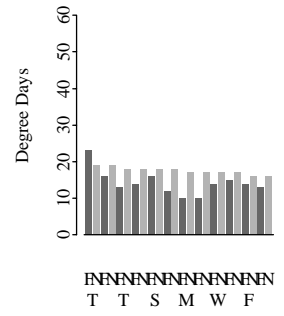
Seattle



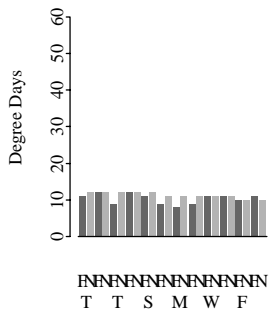
Spokane



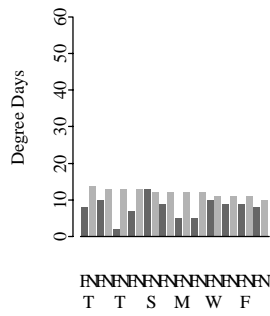
Kalispell



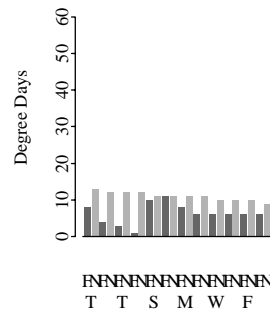
Portland



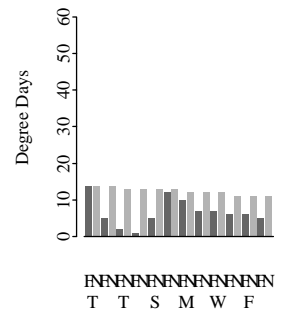
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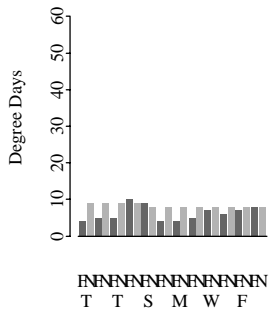
Salt Lake City



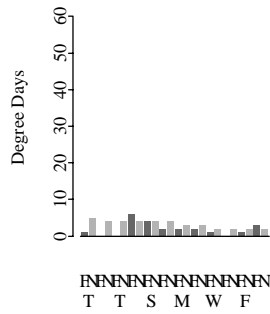
Denver



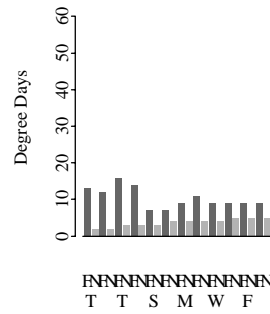
San Francisco



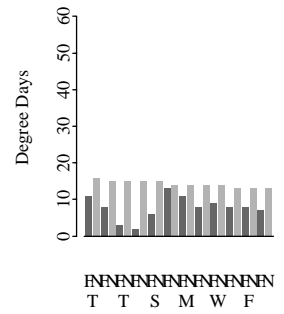
Sacramento



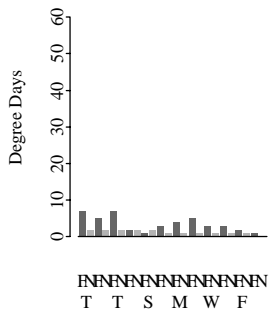
Las Vegas



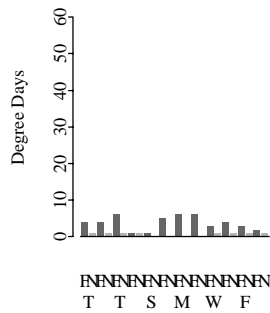
Colorado Springs



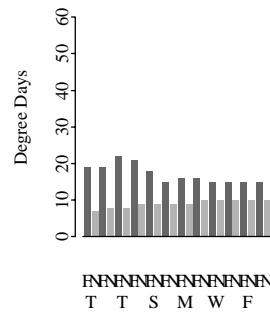
Burbank



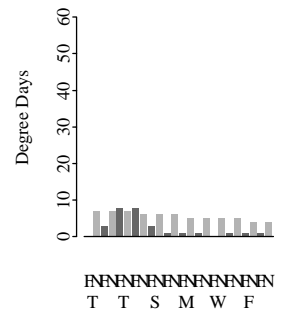
Fresno



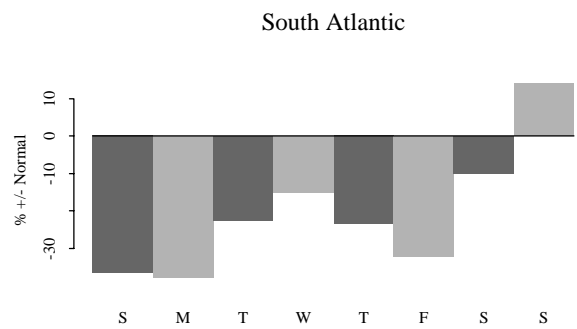
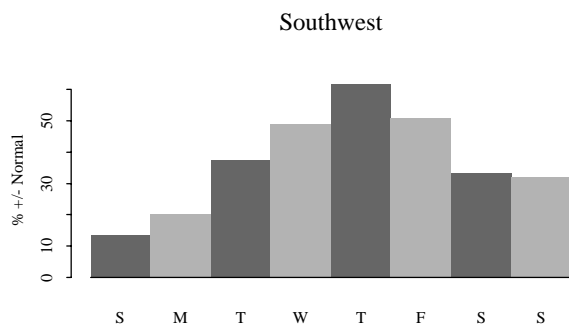
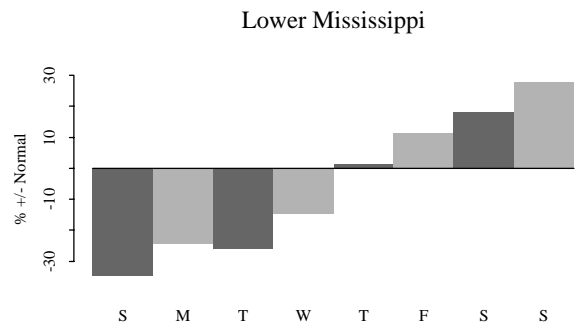
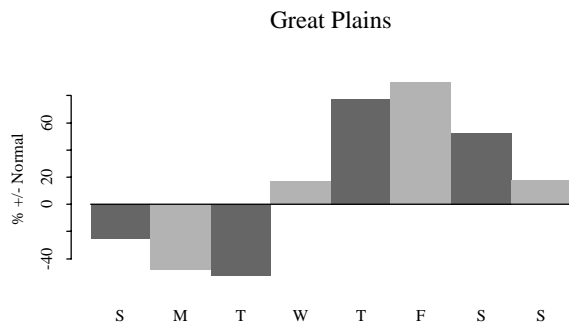
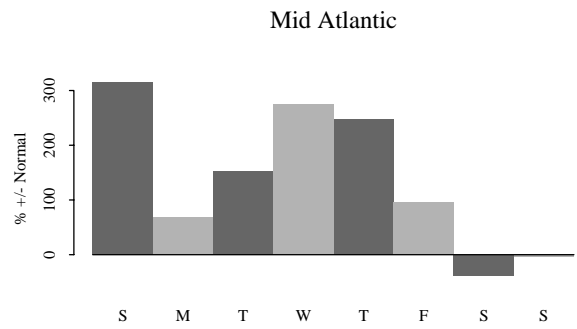
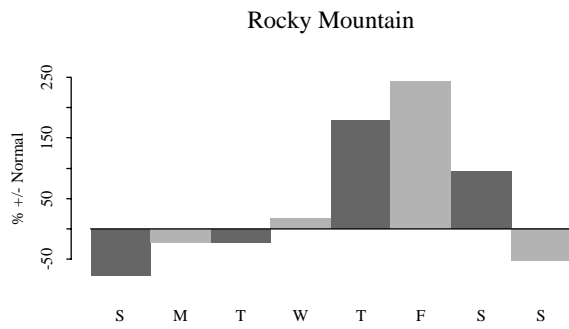
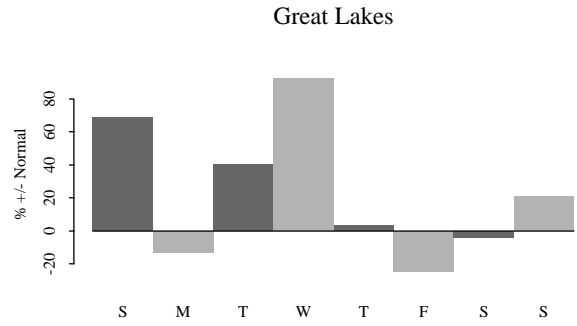
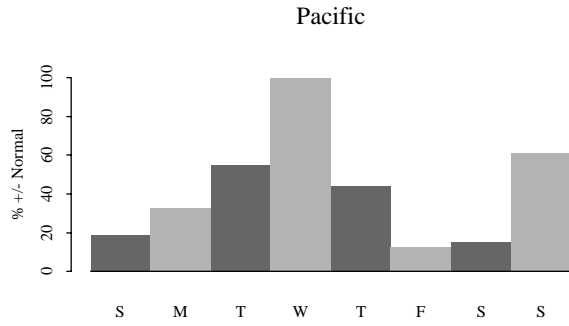
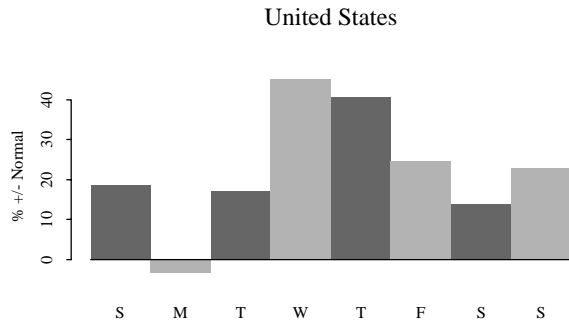
Phoenix



Albuquerque

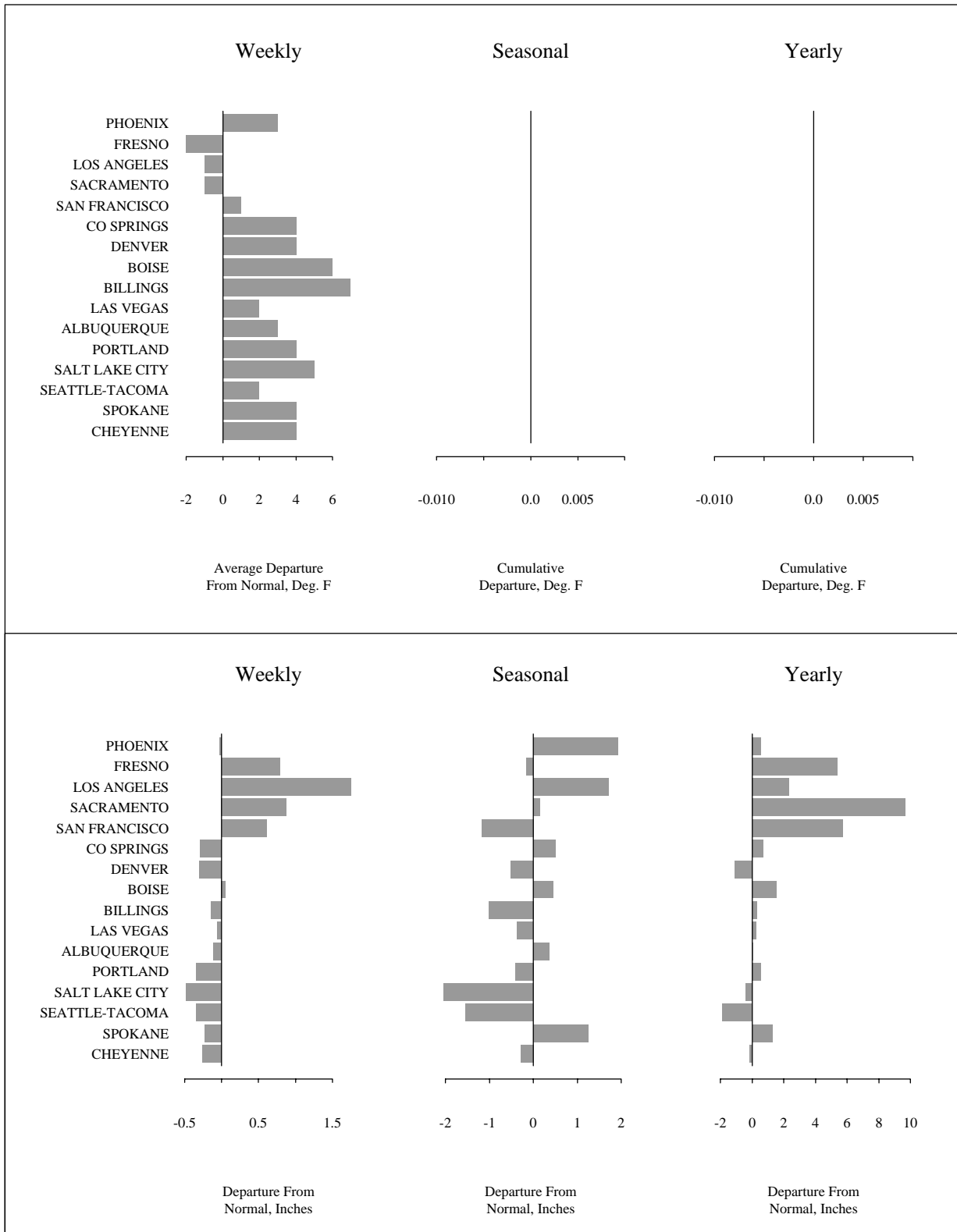


**CNG Regional Energy Indices  
For Week Beginning 04/23/00**



Confidential

# NWS Temperature & Precipitation Summaries for Week Ending 4/23/00



Confidential

## HYDROMETEOROLOGICAL DISCUSSION

NORTHWEST RIVER FORECAST CENTER PORTLAND OR  
12:05 PM PDT MON APR 24 2000

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

UNSETTLED WEATHER PUSHING ONSHORE MANAGED TO HIT WESTERN WASHINGTON AND NORTHWESTERN OREGON WITH FAIRLY WIDESPREAD .4 TO .6 INCH WATER EQUIVALENT ACCUMULATIONS OF VALLEY RAIN AND MOUNTAIN SNOWS. EAST OF THE CASCADES SCATTERED ACCUMULATIONS REACHING .2 TO NEAR .4 INCHES FOCUSED IN AROUND PENDLETON OREGON AS WELL AS INTO SOUTHWESTERN IDAHO UPPER HEADWATERS OF THE OWYHEE AND BRUNEAU RIVERS. ELSEWHERE JUST SPOTTY LIGHT MIXED SHOWERS WERE REPORTED. INTERIOR TEMPERATURE DEPARTURES TYPICALLY RANGED 3 TO 8 DEGREES BELOW NORMAL EAST OF THE CASCADES...CONSISTENT WITH THE SURFACE BASED FREEZING LEVEL REPORTED AT SPOKANE THIS MORNING. ELSEWHERE...WINTER-LIKE FREEZING LEVELS RANGED FROM 2600 FEET OVER QUILLAYUTE UP TO ONLY 6000 FEET OVER BOISE.

HYDROLOGIC CONDITIONS...

WEST OF THE CASCADES...

DESPITE YESTERDAY'S PRECIPITATION INTO NORTHWESTERN TIER BASINS...MOST FLOWS RECEDED.

EAST OF THE CASCADES...

ALTHOUGH HIGH WATER CONDITIONS CONTINUED ALONG THE ST. JOE AND SPOKANE RIVERS...INCLUDING LAKE COEUR D'ALENE...ELSEWHERE CRESTING TO STEADY SUNDAY FLOWS NOW ARE GENERALLY RECEDING.

HYDROMETEOROLOGICAL FORECAST...24 APR - 28 APR

TODAY LOOK FOR A CHANCE OF LIGHT SCATTERED MIXED SHOWERS ACROSS EAST/NORTHEASTERN IDAHO INTO WESTERN MONTANA AND NORTHWESTERN WYOMING. BUT BY EARLY TUESDAY MORNING A PACIFIC DISTURBANCE IS FORECAST TO PUSH IN OCCASIONAL VALLEY RAIN AND MOUNTAIN SNOW ACROSS WESTERN WASHINGTON AND NORTHWESTERN OREGON. 6 HOURLY PRECIPITATION ACCUMULATIONS ACROSS THESE LOCATIONS COULD REACH .2 TO .35 INCHES UP UNTIL NOON TUESDAY. DIMINISHING LIGHT SCATTERED SHOWERS SHIFTING NORTHEASTWARD ACROSS THE INTERIOR INTO NORTHWESTERN MONTANA LATER TUESDAY - WEDNESDAY AFTERNOON WILL MARK A MINOR REPRIEVE BETWEEN DISTURBANCES. BUT BY LATE WEDNESDAY - THURSDAY MORNING EXPECT INCREASING PROSPECTS FOR A RESUMPTION OF OCCASIONAL VALLEY RAIN WITH MOUNTAIN SNOW MORE WIDESPREAD ACROSS WESTSIDE BASINS INTO FRIDAY MORNING... SKIPPING EASTWARD OVER THE CASCADES MOSTLY AS LINGERING DIMINISHING SHOWERS SHIFTING IN ACROSS MOST INTERIOR BASINS THROUGH THE REMAINDER OF FRIDAY INTO SATURDAY MORNING.

HYDROLOGIC FORECAST...

WEST OF THE CASCADES...

DESPITE POTENTIAL FOR SOME MINOR LOWER ELEVATION HEADWATER RISES BY LATE TUESDAY AND POSSIBLY AGAIN LATER ON THURSDAY...LOOK FOR MOST FLOWS TO RECEDE SLOWLY THROUGH THE PERIOD.

EAST OF THE CASCADES...

SLOW RECESSIONS LIKELY INTO WEDNESDAY WITH WIDESPREAD MINOR SNOWMELT RISES FORECAST TO BUILD THURSDAY-FRIDAY RESULTING PRIMARILY FROM 10 TO 19 DEGREE ABOVE NORMAL TEMPERATURE DEPARTURES BUILDING IN ACROSS SOUTHERN IDAHO WEDNESDAY-THURSDAY.

DESPITE RELATIVELY BENIGN EARLY-MID PERIOD INTERIOR HYDROLOGIC RESPONSES... HIGH FLOWS CONTINUE ALONG THE SPOKANE AND ST. JOE RIVERS...IN COMBINATION WITH HIGH WATER LEVELS ON LAKE COEUR D'ALENE. PLEASE REFER TO THE LATEST NWS SPOKANE FLOOD WARNINGS AND STATEMENTS.

6-10 DAY OUTLOOK...29 APR - 03 MAY

EARLY PERIOD WIDESPREAD MIXED SHOWERY WEATHER ACROSS THE REGION MAY GET SHIFTED UP INTO WASHINGTON AS HIGH PRESSURE RIDGING BUILDING IN ELSEWHERE DRIES THINGS OUT AND RAISES MOST TEMPERATURES ABOVE NORMAL THROUGH MID PERIOD. BUT ANOTHER LATE PERIOD GULF DISTURBANCE PIVOTING INTO BRITISH COLUMBIA IS THEN FORECAST TO RESULT IN POTENTIAL FOR INCREASING OCCASIONAL

VALLEY RAIN AND MOUNTAIN SNOWS ACROSS MOST OF WASHINGTON...WITH WIDESPREAD MIXED SHOWERS EXTENDING ACROSS MOST OTHER BASINS...EXCEPT IN SOUTHEASTERN IDAHO WHERE ABOVE NORMAL TEMPERATURES AND HIGH FREEZING LEVELS ARE LIKELY THROUGH A MAJORITY OF THE PERIOD.

Hydromet Summary

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

Earlybird  
Expected  
April 27

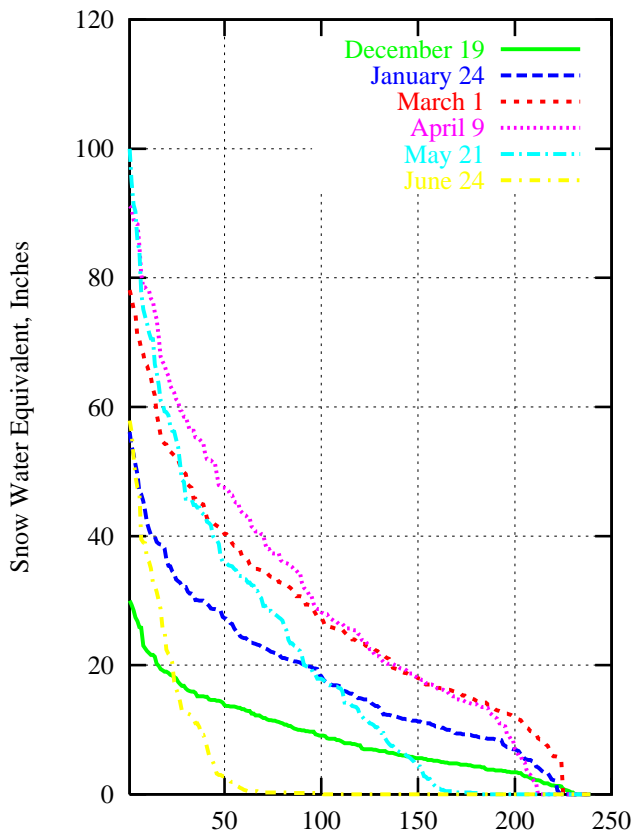
APR-00MIDMN 1 WATER SUPPLY FORECASTS  
OBS PREC THRU 17TH; NORMAL PREC REST OF WAY  
STREAM AND STATION PERIOD FORECAST % AVERAGE

|                              |         |          |     |         |  |
|------------------------------|---------|----------|-----|---------|--|
| COLUMBIA RIVER               |         |          |     |         |  |
| MICA RESERVOIR INFLOW, BC    | FEB-SEP | 13700.0  | 104 | 13170.  |  |
|                              | APR-SEP | 13100.0  | 103 | 12730.  |  |
| ARROW LAKES INFLOW           | FEB-SEP | 29300.0  | 109 | 26800.  |  |
|                              | APR-SEP | 27900.0  | 109 | 25540.  |  |
| BIRCHBANK, BC (1)            | APR-SEP | 47500.0  | 108 | 43800.  |  |
| GRAND COULEE, WA (1)         | JAN-JUL | 67000.0  | 106 | 63280.  |  |
|                              | APR-SEP | 69100.0  | 107 | 64850.  |  |
| ROCK ISLAND DAM BLO, WA (1)  | APR-SEP | 75200.0  | 107 | 70480.  |  |
| THE DALLES NR, OR (1)        | APR-SEP | 98200.0  | 99  | 98980.  |  |
|                              | JAN-JUL | 105000.0 | 99  | 105900. |  |
|                              | APR-AUG | 92500.0  | 99  | 93250.  |  |
| KOOTENAI RIVER               |         |          |     |         |  |
| LIBBY RES INFLOW, MT (1)     | APR-SEP | 7550.0   | 111 | 6772.   |  |
| KOOTENAY RIVER               |         |          |     |         |  |
| KOOTENAY LAKE INFLOW, BC     | APR-SEP | 17400.0  | 105 | 16650.  |  |
| DUNCAN RIVER                 |         |          |     |         |  |
| DUNCAN RESERVOIR INFLOW, BC  | FEB-SEP | 2470.0   | 107 | 2319.   |  |
|                              | APR-SEP | 2380.0   | 106 | 2238.   |  |
| CLARK FORK                   |         |          |     |         |  |
| ST. REGIS, MT (1)            | APR-SEP | 3520.0   | 86  | 4095.   |  |
| PEND OREILLE RIVER           |         |          |     |         |  |
| PEND OREILLE LAKE IN, ID (1) | APR-SEP | 13600.0  | 95  | 14370.  |  |
| S.F. FLATHEAD RIVER          |         |          |     |         |  |
| HUNGRY HORSE RES IN, MT (1)  | APR-SEP | 2180.0   | 100 | 2184.   |  |
| FLATHEAD RIVER               |         |          |     |         |  |
| FLATHEAD LAKE INFLOW, MT (1) | APR-SEP | 6830.0   | 99  | 6926.   |  |
| COEUR D'ALENE RIVER          |         |          |     |         |  |
| COEUR D'ALENE LAKE IN, ID    | APR-SEP | 2710.0   | 100 | 2720.   |  |
| SIMILKAMEEN RIVER            |         |          |     |         |  |
| NIGHTHAWK NR, WA (1)         | APR-JUL | 1140.0   | 87  | 1304.   |  |
| OKANAGAN RIVER               |         |          |     |         |  |
| TONASKET NR, WA (1)          | APR-SEP | 1480.0   | 91  | 1623.   |  |
| CHELAN RIVER                 |         |          |     |         |  |
| LAKE CHELAN INFLOW, WA (1)   | APR-SEP | 1160.0   | 100 | 1160.   |  |
| WENATCHEE RIVER              |         |          |     |         |  |
| PESHASTIN, WA                | APR-SEP | 1640.0   | 100 | 1636.   |  |
| YAKIMA RIVER                 |         |          |     |         |  |
| PARKER NR, WA                | APR-SEP | 2020.0   | 101 | 1994.   |  |
| SKAGIT RIVER                 |         |          |     |         |  |
| CONCRETE NR, WA              | APR-SEP | 6490.0   | 99  | 6525.   |  |
| COWLITZ RIVER                |         |          |     |         |  |
| MAYFIELD RES INFLOW, WA      | APR-SEP | 2050.0   | 104 | 1971.   |  |
|                              | APR-JUL | 1800.0   | 104 | 1731.   |  |
| CASTLE ROCK, WA              | APR-SEP | 2700.0   | 101 | 2668.   |  |
| SNAKE RIVER                  |         |          |     |         |  |
| JACKSON LAKE INFLOW, WY (1)  | APR-JUL | 670.0    | 86  | 781.    |  |
| PALISADES RES INFLOW, ID (1) | APR-JUL | 2700.0   | 84  | 3226.   |  |
| HEISE NR, ID                 | APR-JUL | 2910.0   | 84  | 3451.   |  |
| WEISER, ID (1)               | APR-JUL | 3630.0   | 66  | 5465.   |  |
| BROWNLEE RES INFLOW          | APR-JUL | 4030.0   | 70  | 5794.   |  |
| LOWER GRANITE RES IN, WA (1) | JAN-JUL | 26300.0  | 88  | 29740.  |  |
|                              | APR-JUL | 18900.0  | 87  | 21650.  |  |

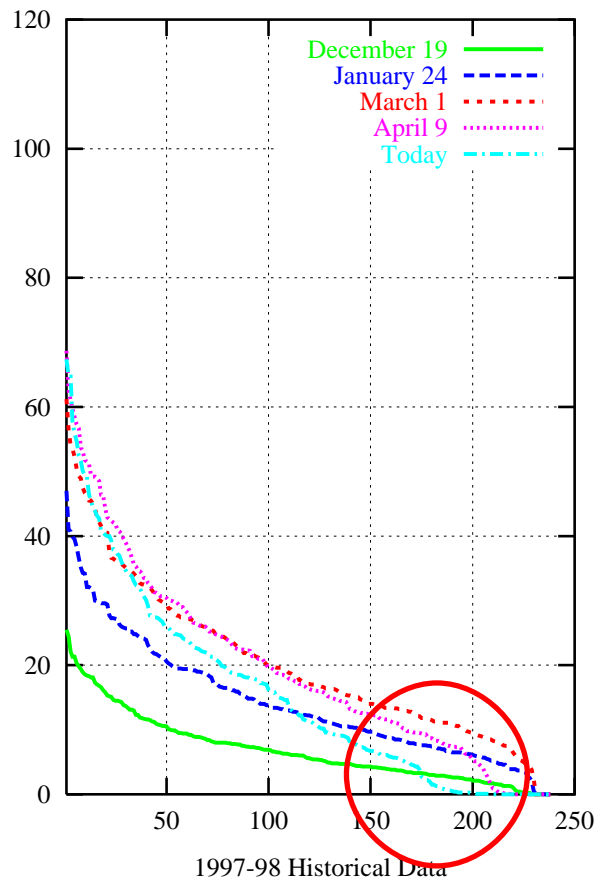
Confidential

# Columbia River Basin: Sorted Snow Measurements (SWE inches)

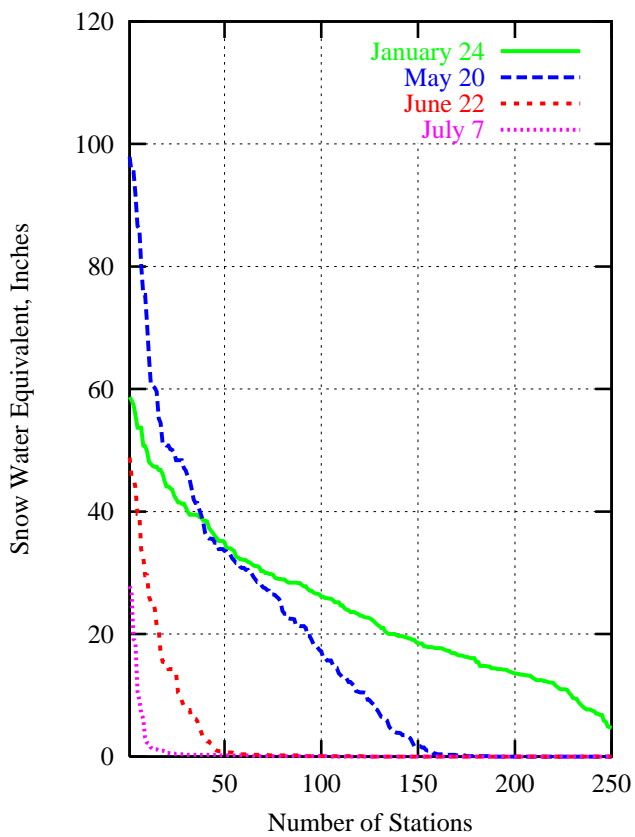
1998-99 Historical Data



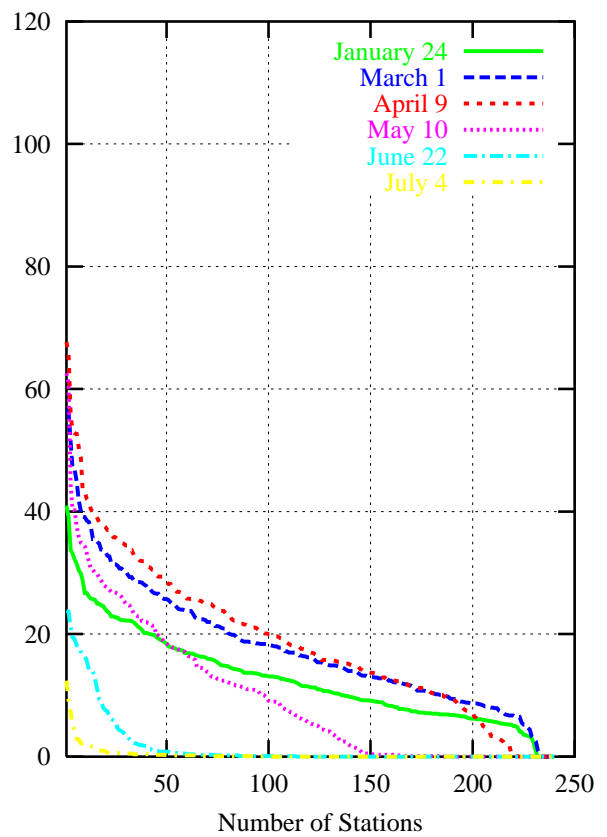
1999-00 Historical Data



1996-97 Historical Data



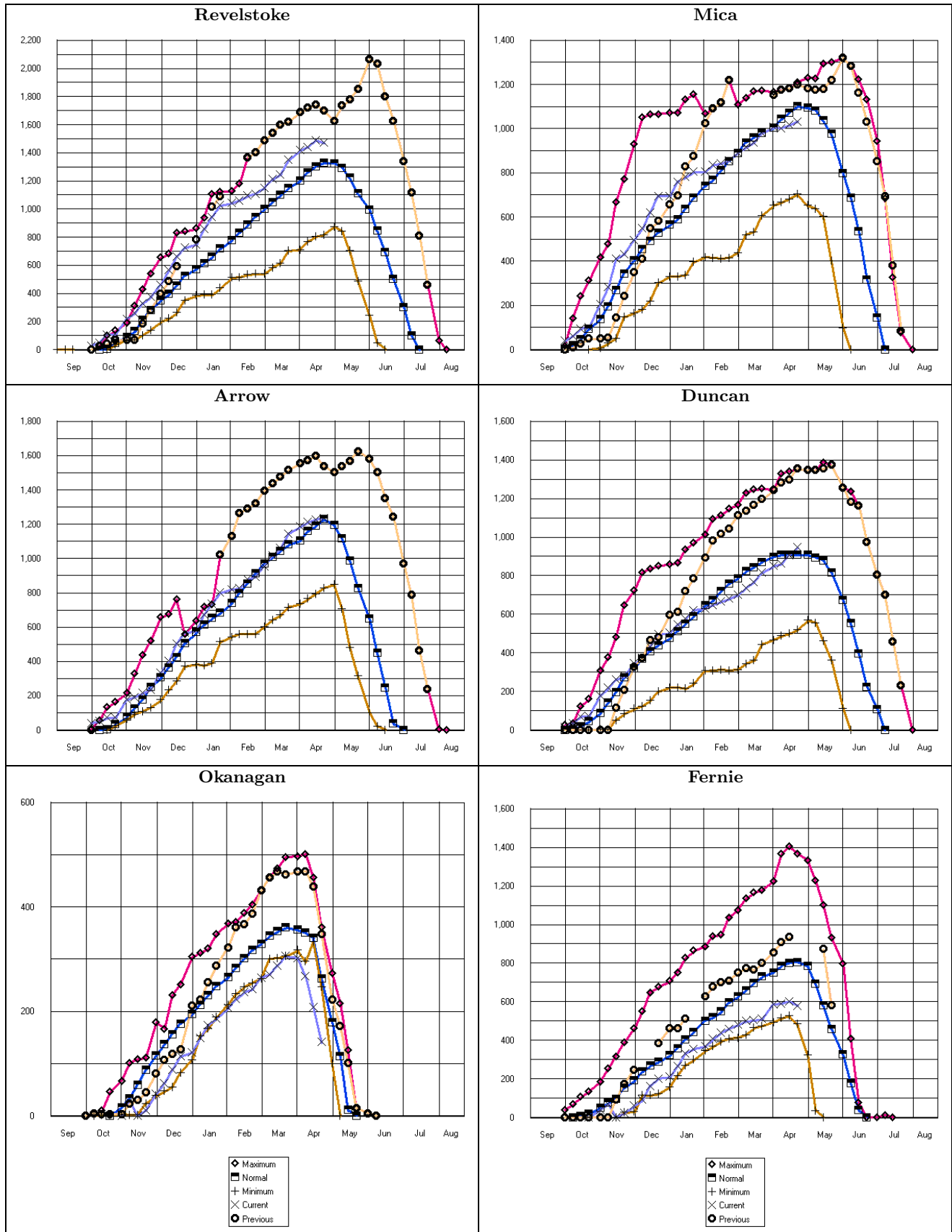
1997-98 Historical Data



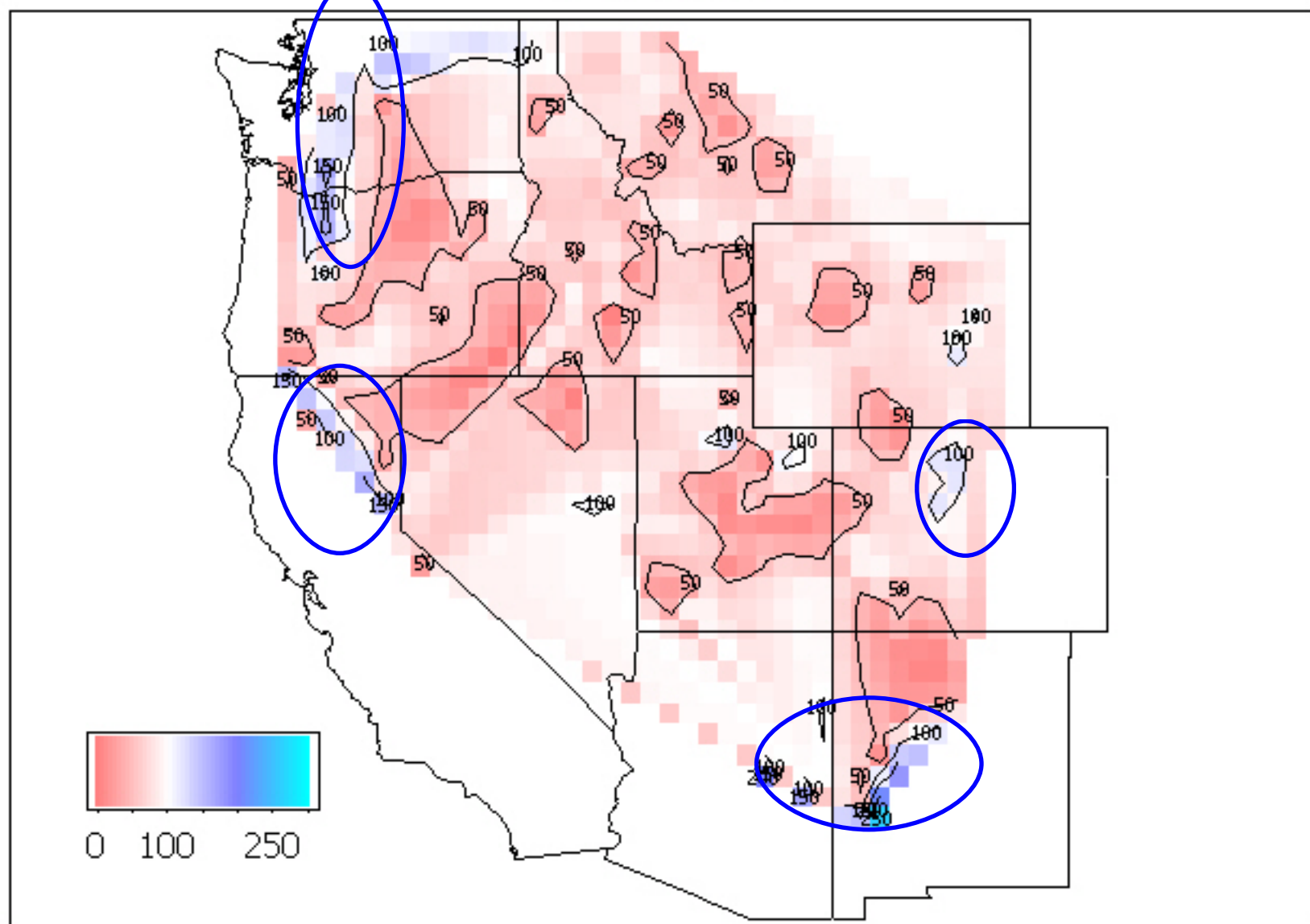
April 25, 2000



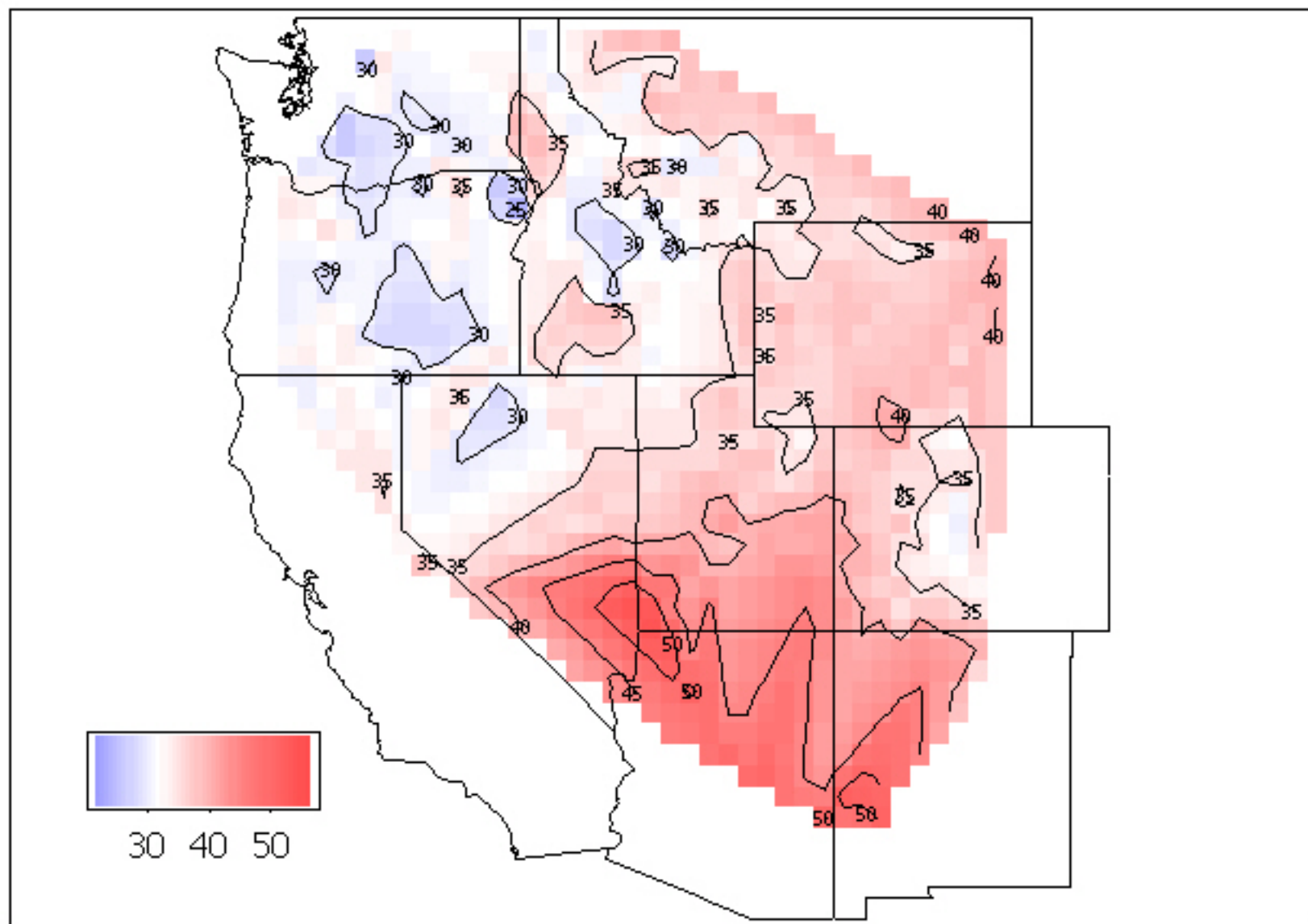
# British Columbia Snow Depth (SWE mm)



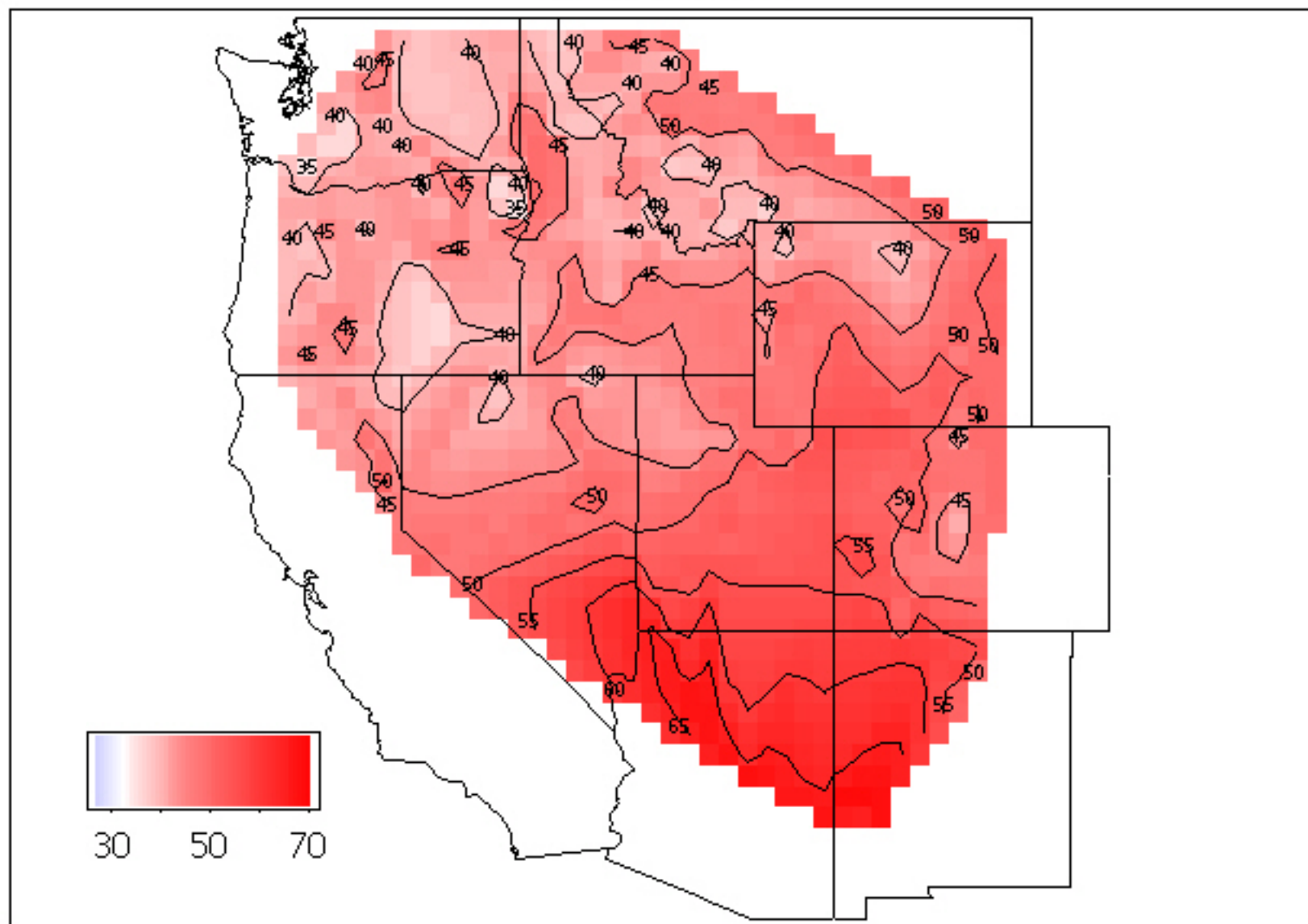
# SNOTEL Snow Water Equivalent as Percent of Normal All Stations



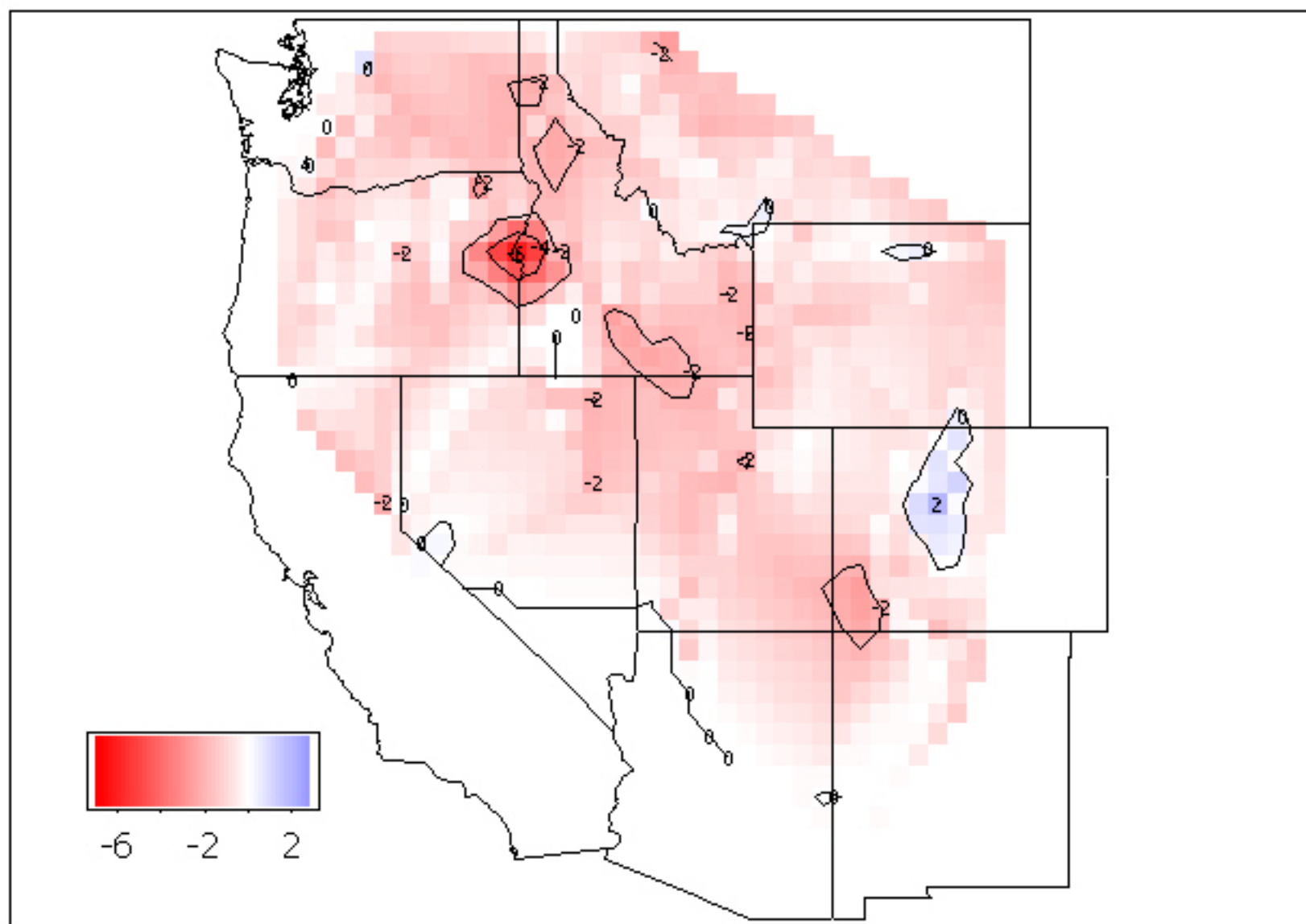
# SNOTEL Daily Average Temperatures All Stations



# SNOTEL Daily Maximum Temperatures All Stations

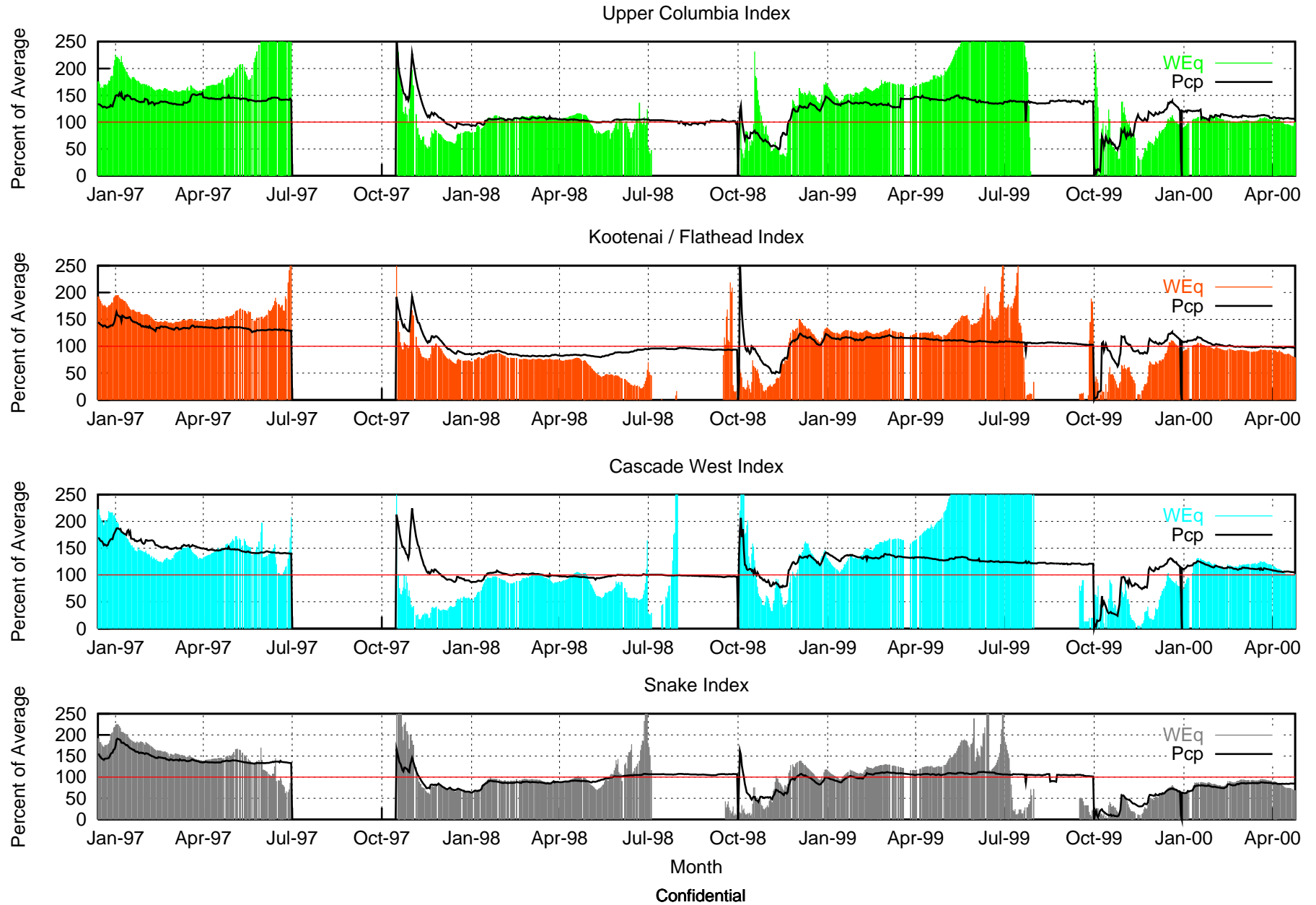


# SNOTEL Snow Water Equivalent Change All Stations

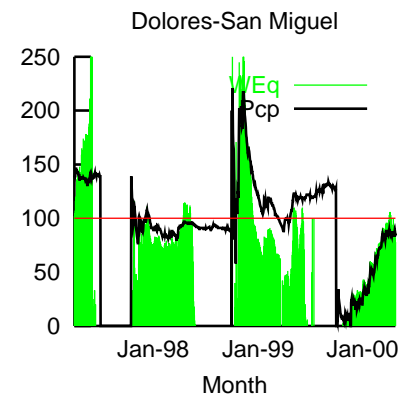
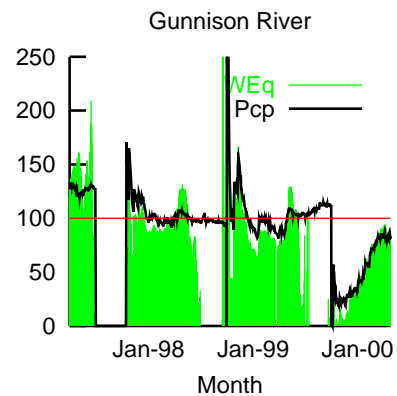
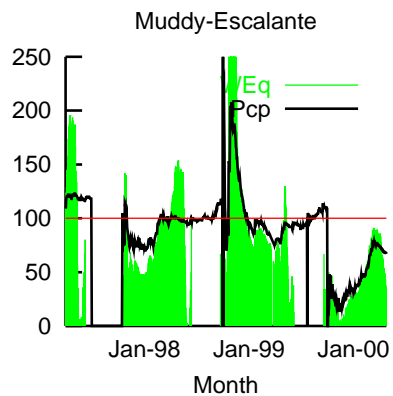
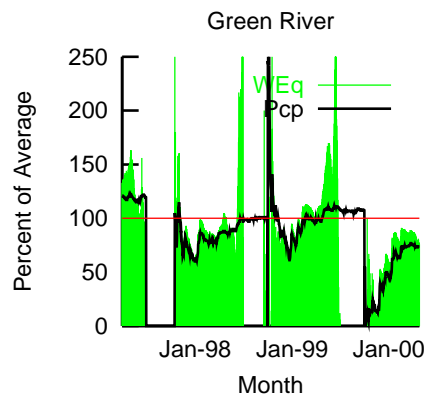
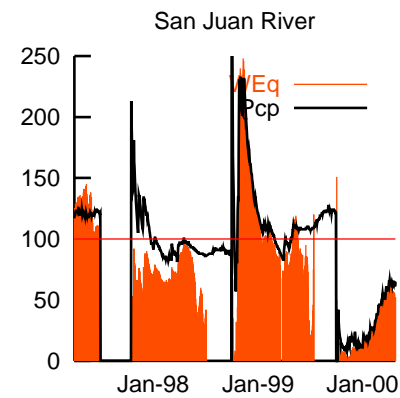
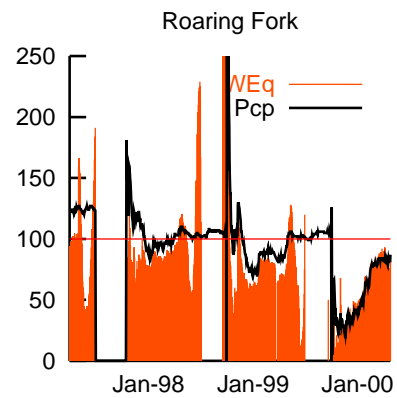
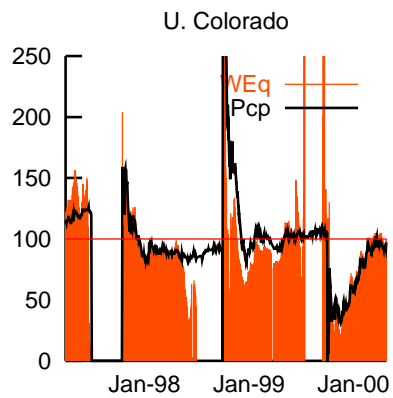
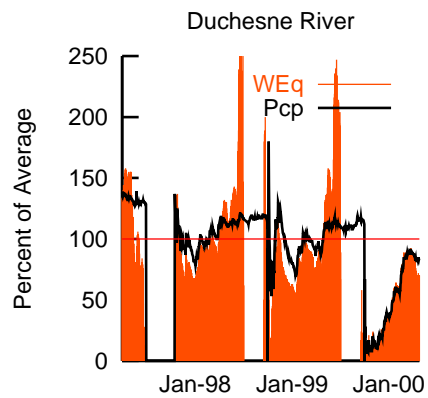
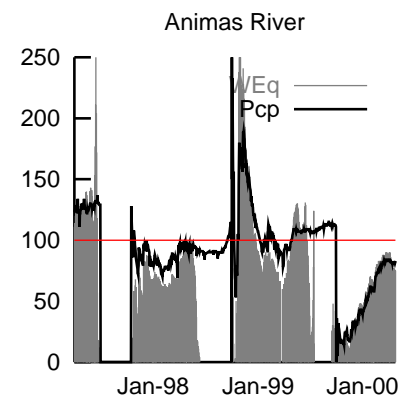
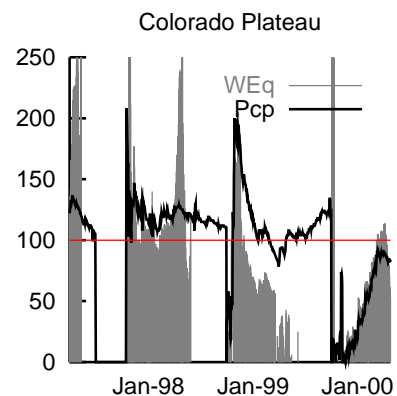
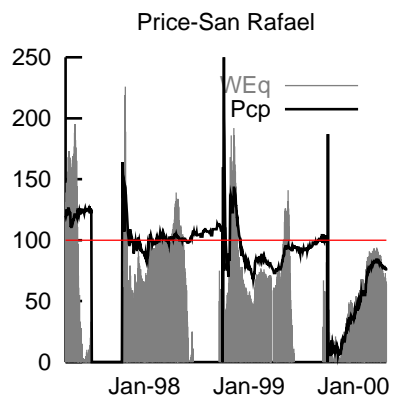
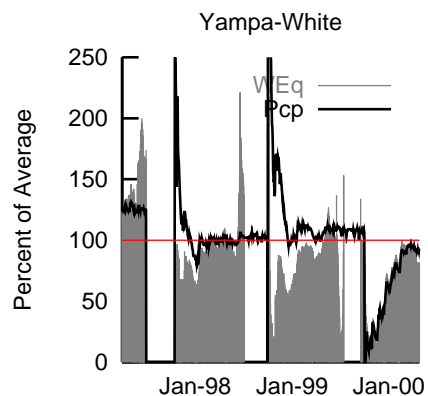


4/25/2000 Vs. 4/22/2000

Pacific Northwest Snow Summary  
January, 1997 - Present

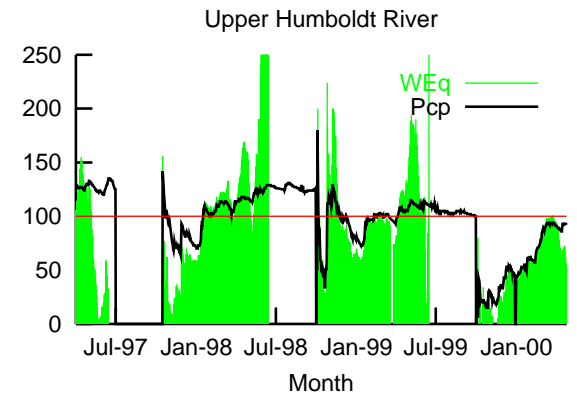
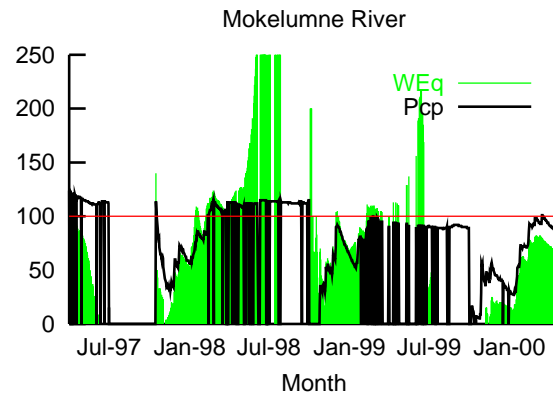
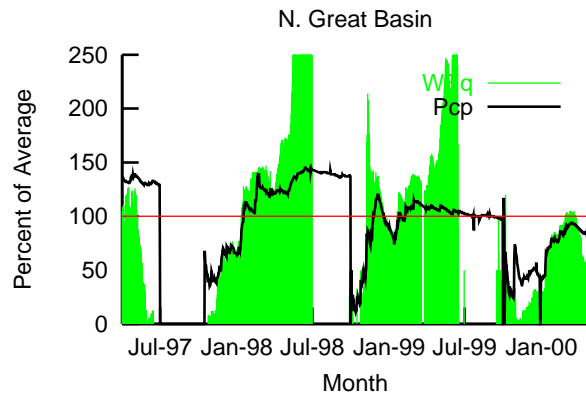
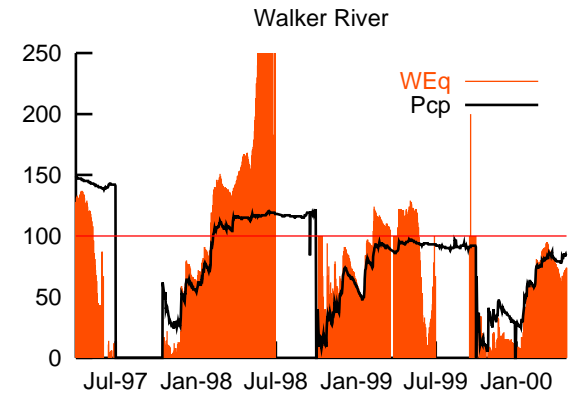
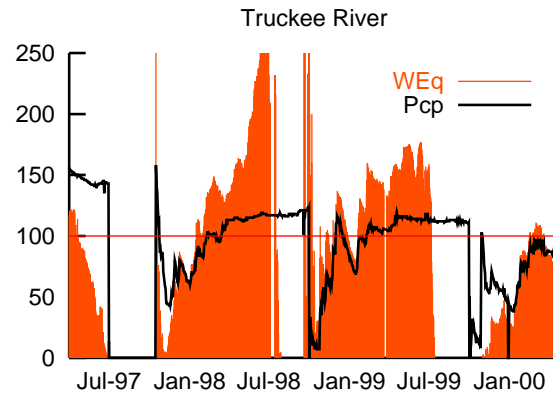
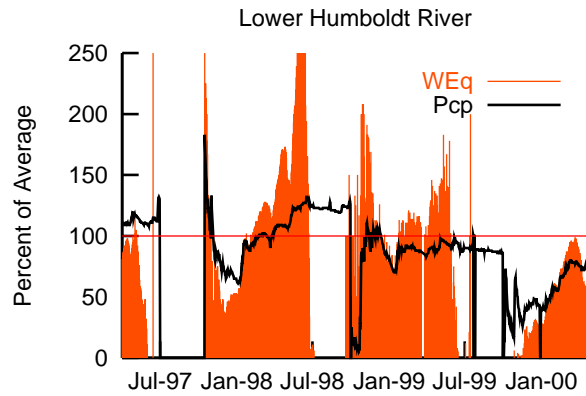
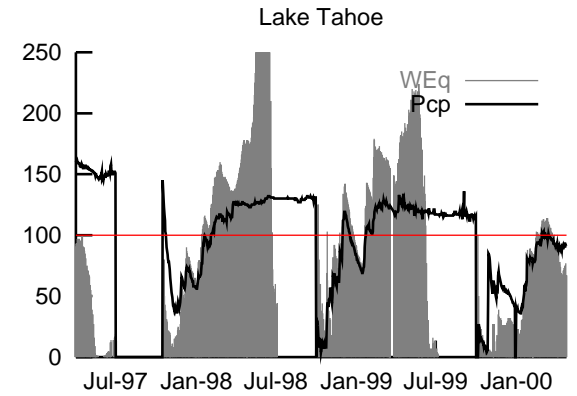
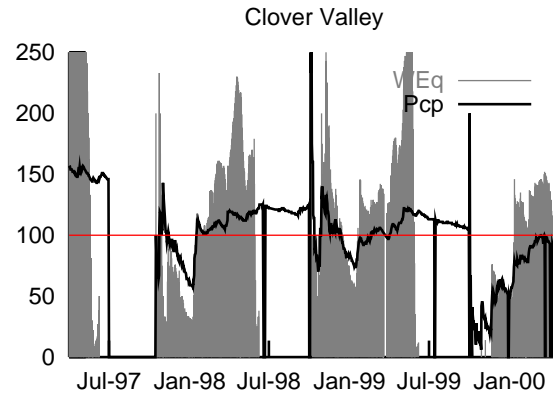
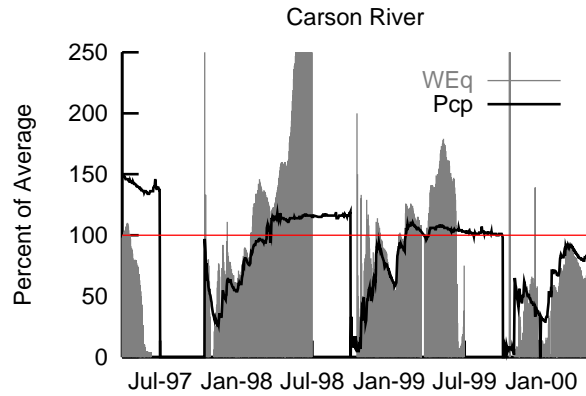


# Colorado River Basin Snow Summary April, 1997 - Present



Confidential

California / Nevada Snow Summary  
April, 1997 - Present

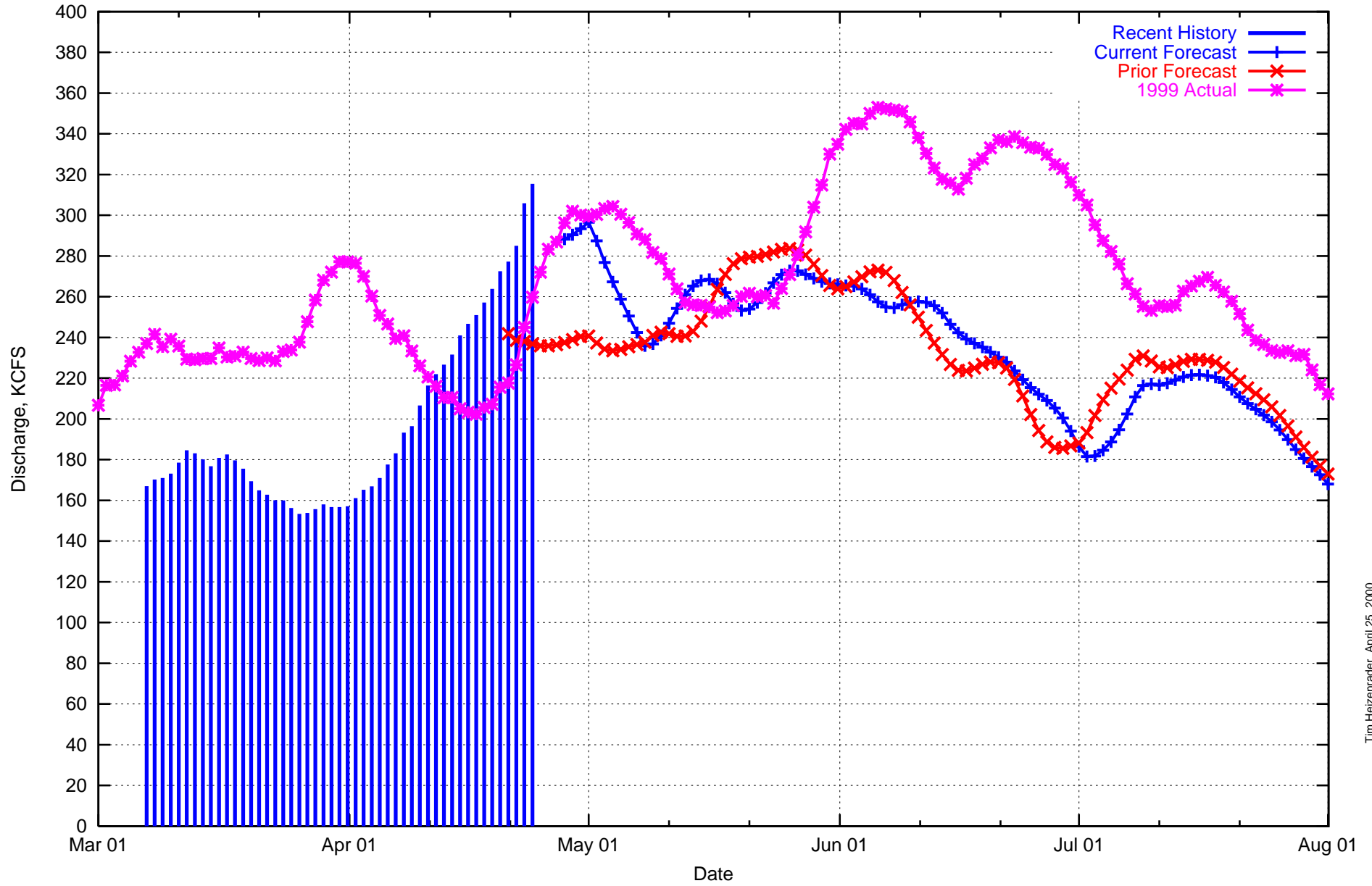


Confidential

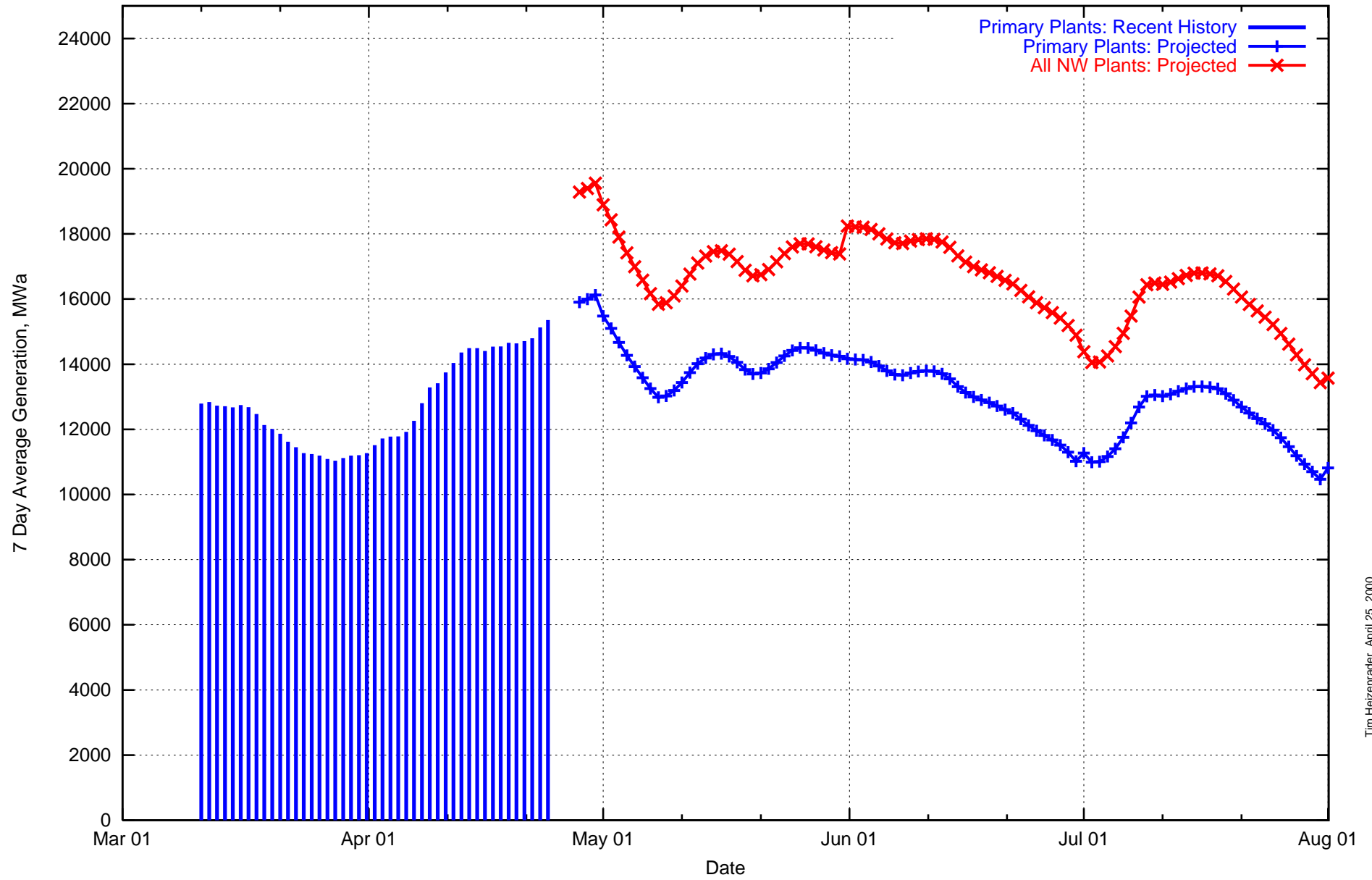
April 25, 2000

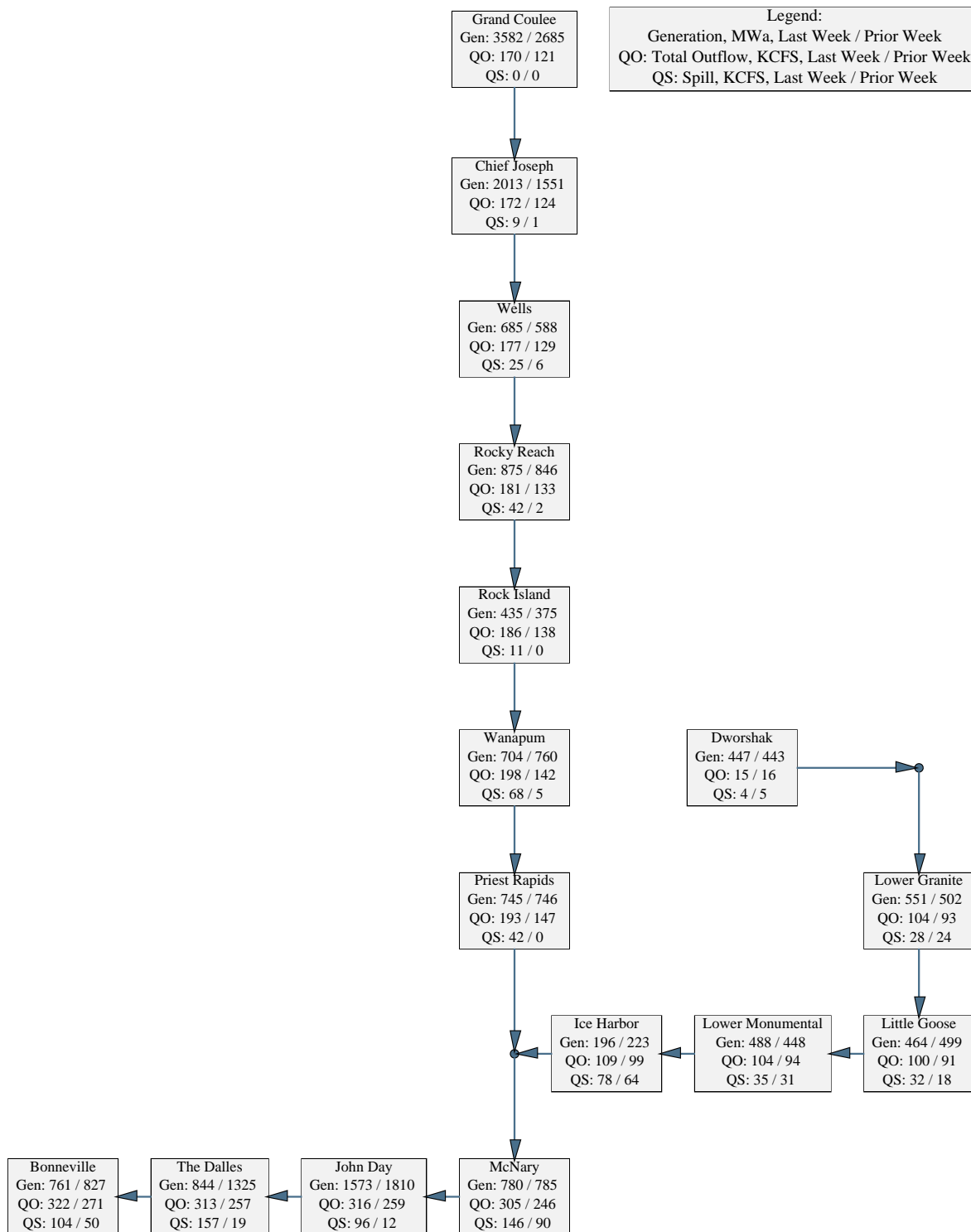


McNary Discharge  
History & Forecasts: 7 Day Moving Averages



Northwest Hydro Production  
Recent History & Current Forecasts



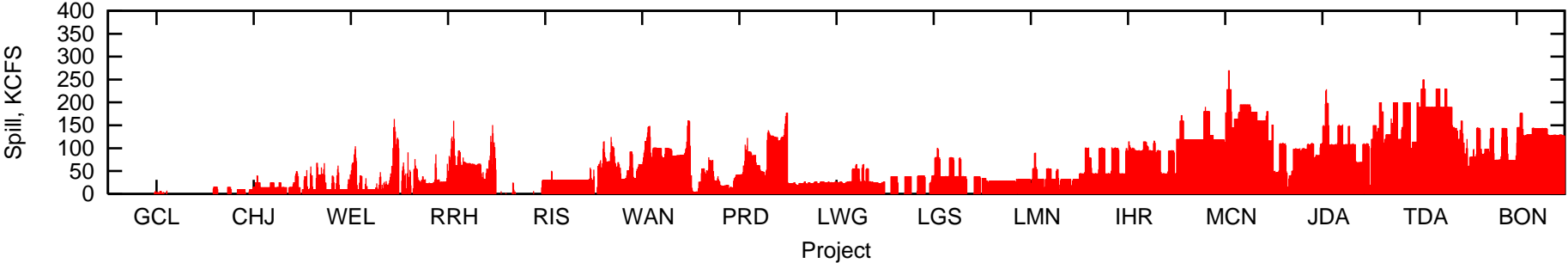


Columbia River and Snake River  
 Hydroelectric Plant Operations  
 7 Day Averages  
 April 25, 2000

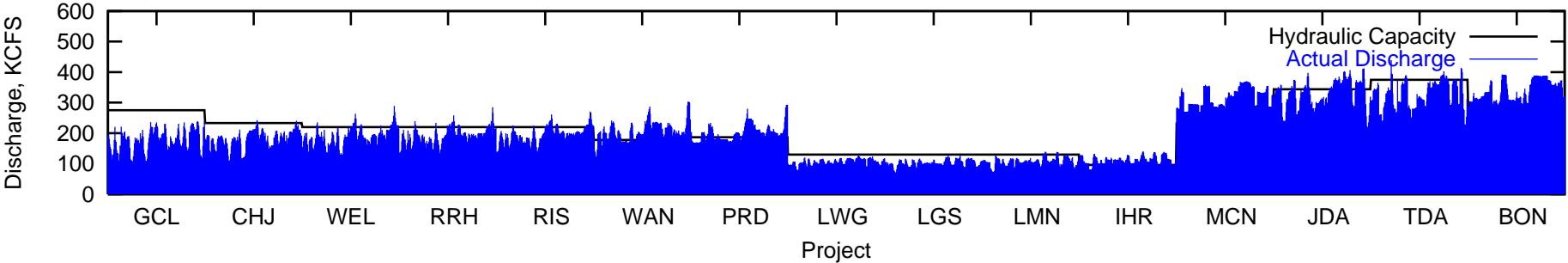
Confidential

Columbia & Lower Snake River Hourly Operations

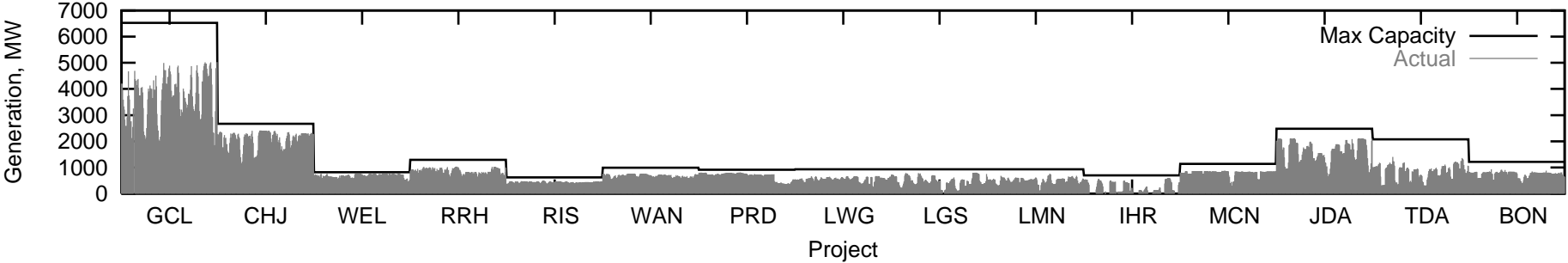
Spill  
168 Hours Ending 0800, April 25, 2000



Total Discharge  
168 Hours Ending 0800, April 25, 2000



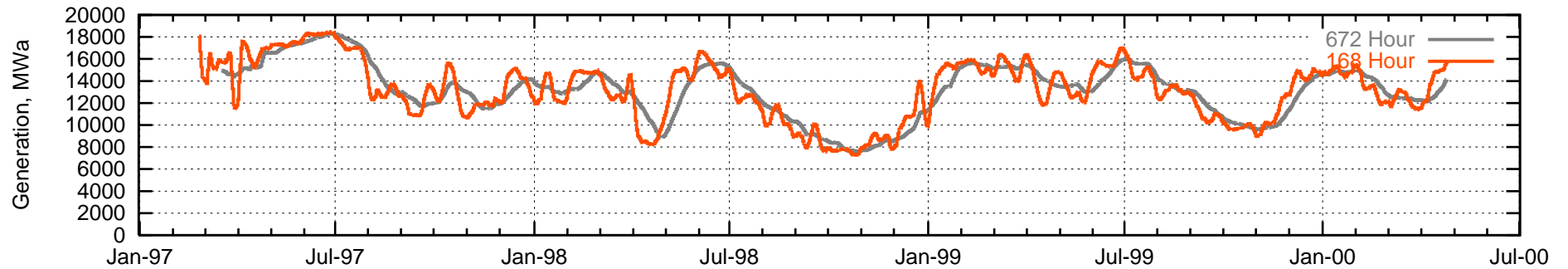
Generation  
168 Hours Ending 0800, April 25, 2000



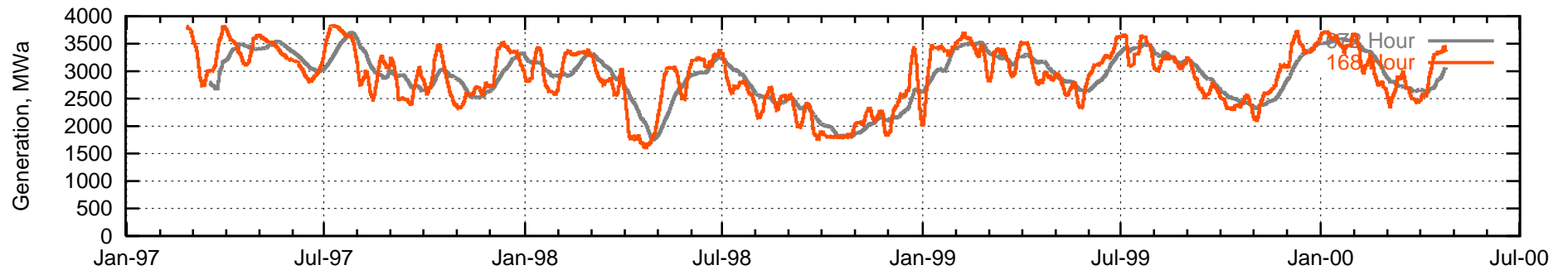
Confidential

# Hourly Moving Average Hydro Generation 1997 - Present

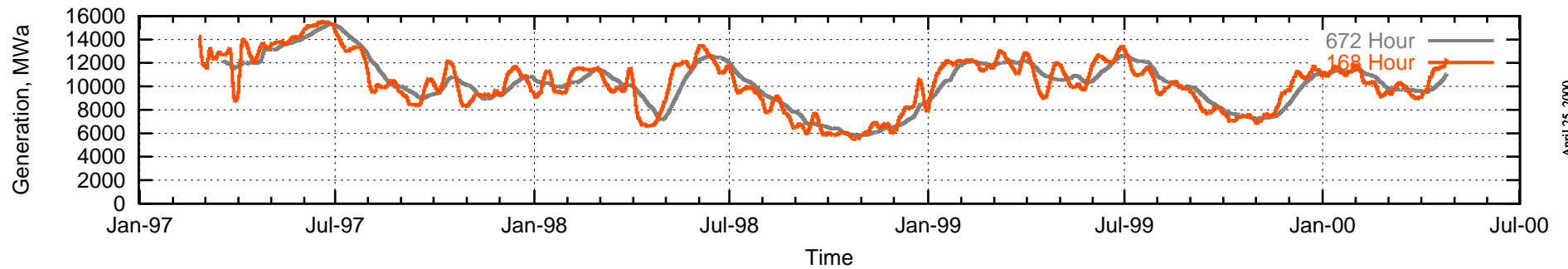
## All Snake, Columbia, Willamette Projects



## Non-Federal Mid-Columbia Projects



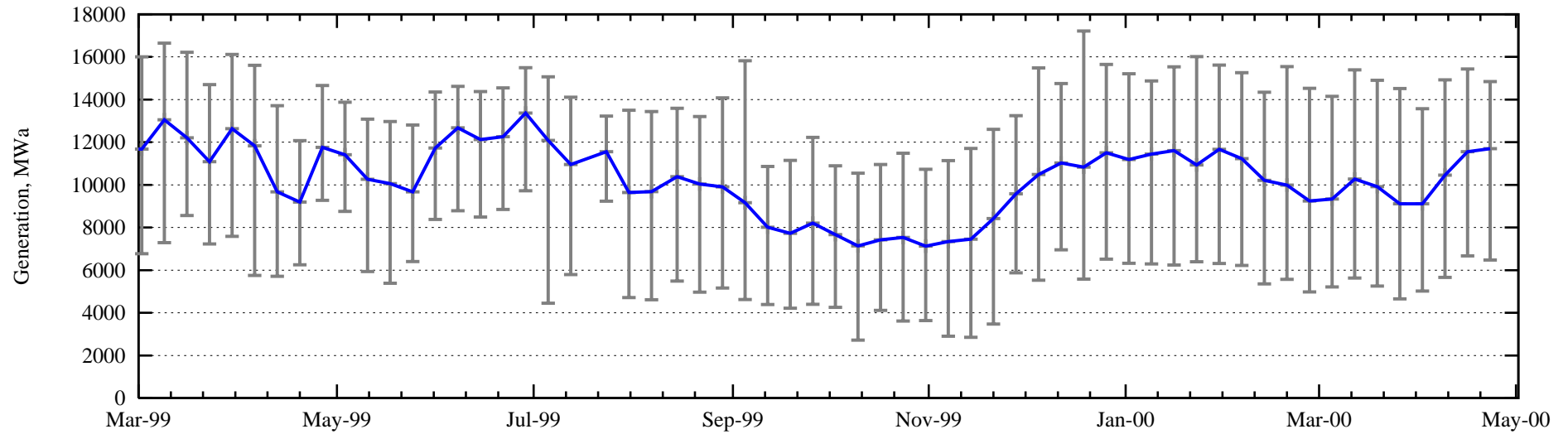
## Federal Snake, Columbia, Willamette Projects



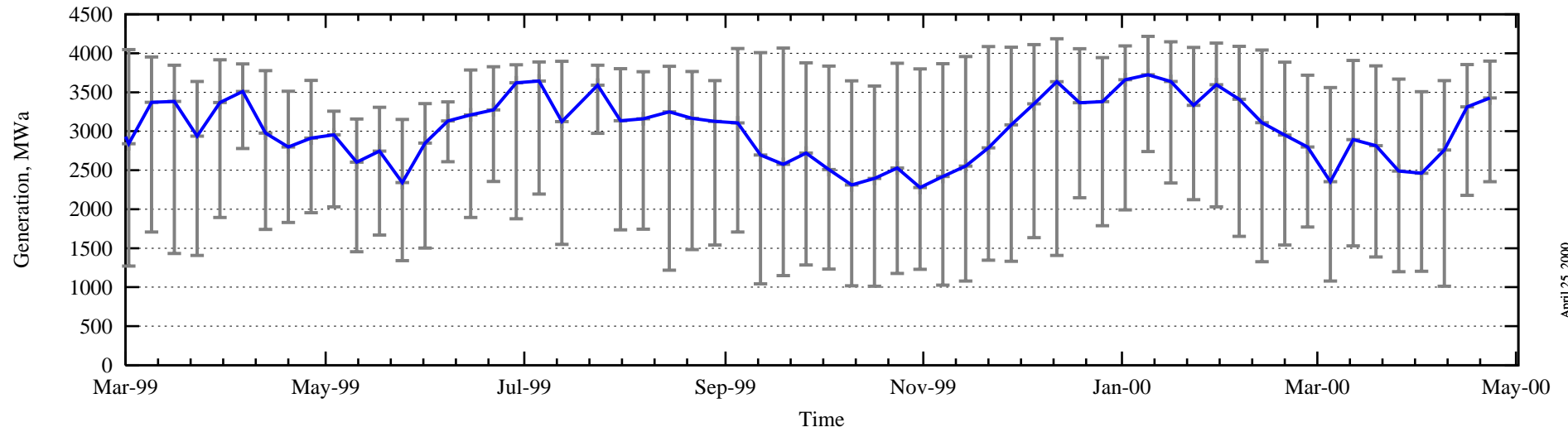
Confidential

Weekly High / Low / Average Hydro Generation  
Last 13 Months

Federal Snake, Columbia, Willamette Production



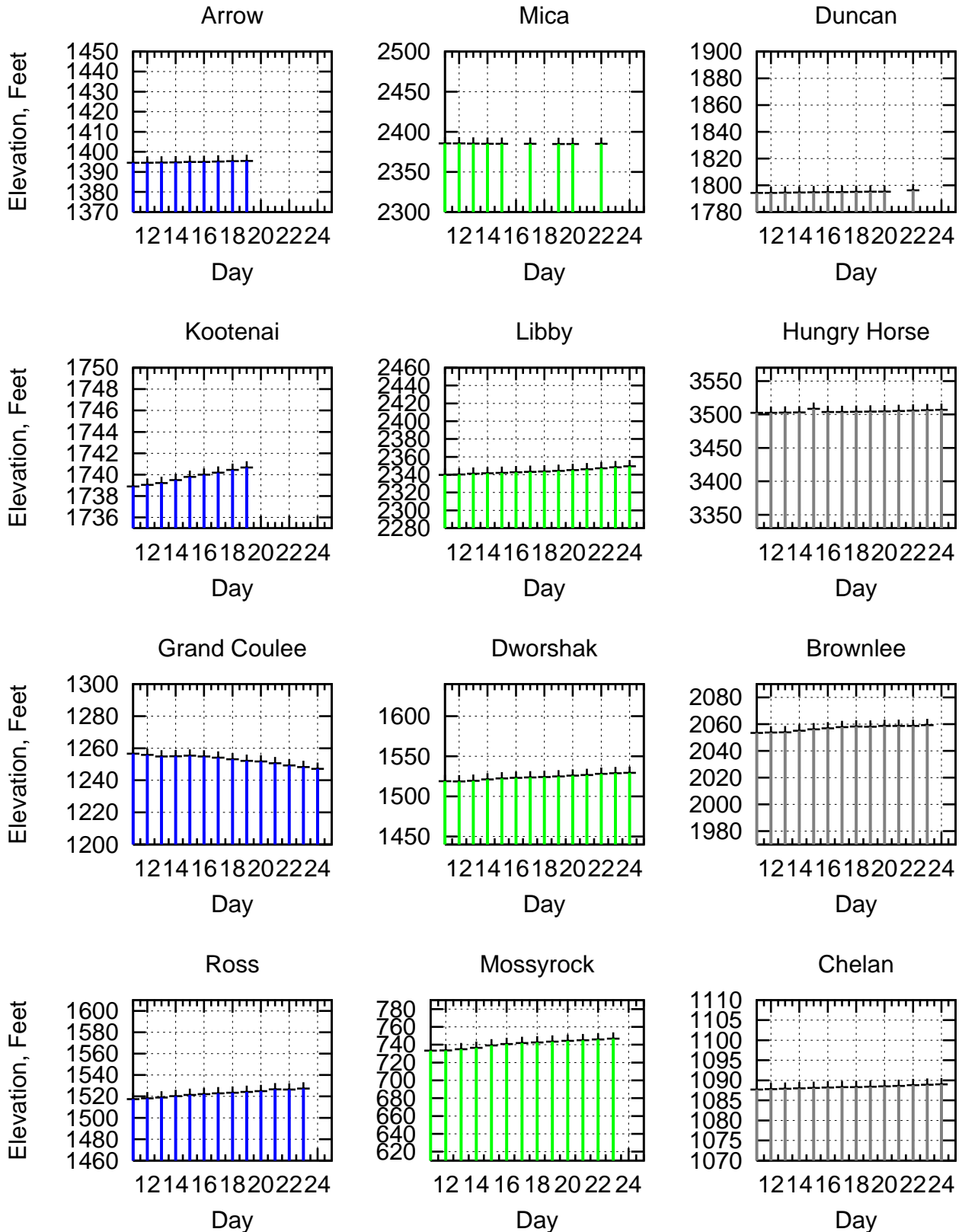
Non-Federal Mid-Columbia Production



Confidential

April 25, 2000

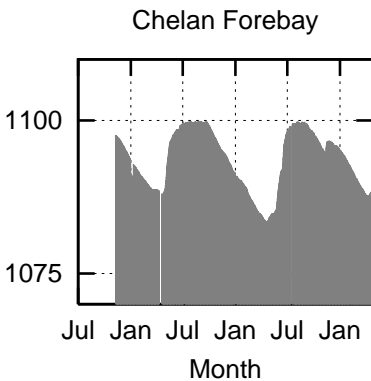
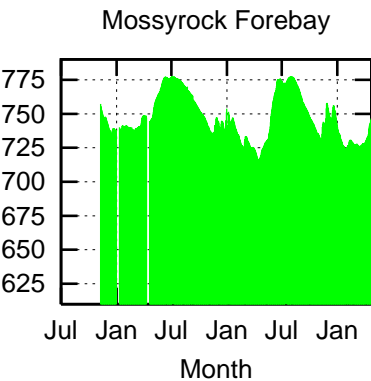
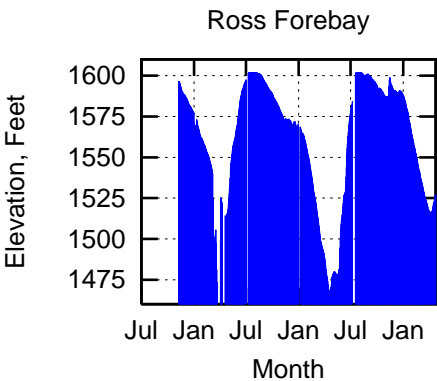
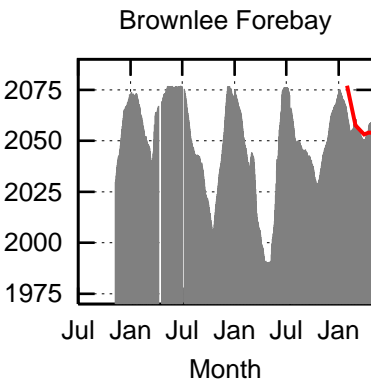
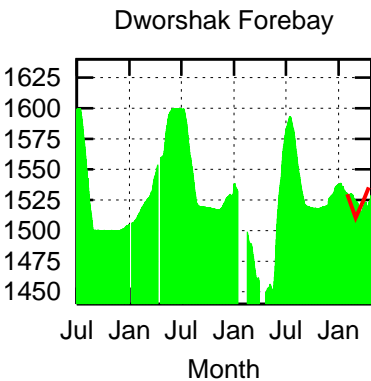
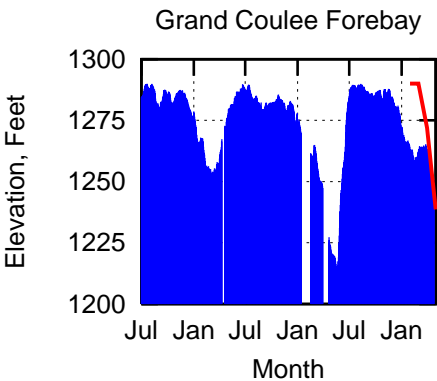
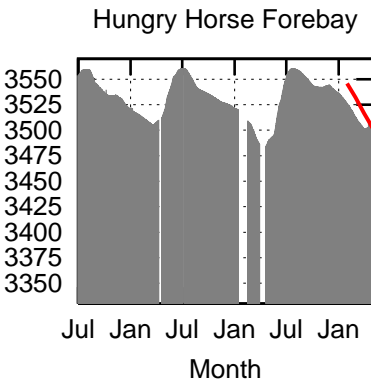
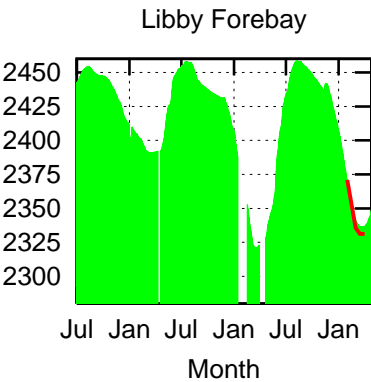
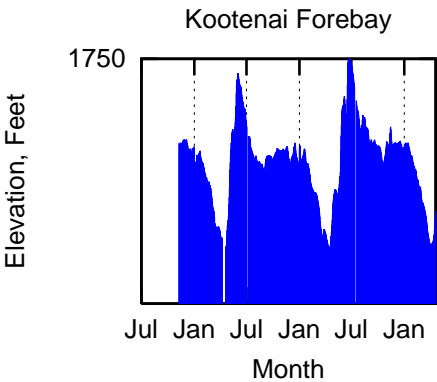
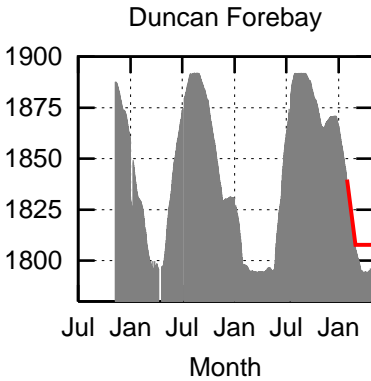
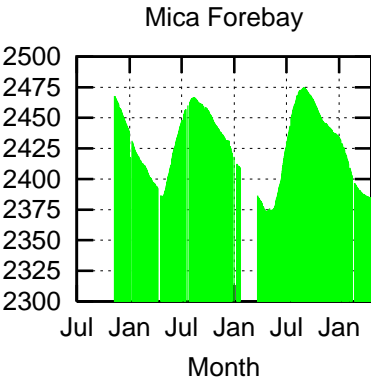
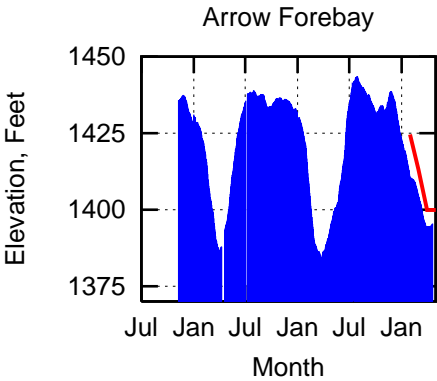
# Daily Reservoir Elevation Summary



Confidential

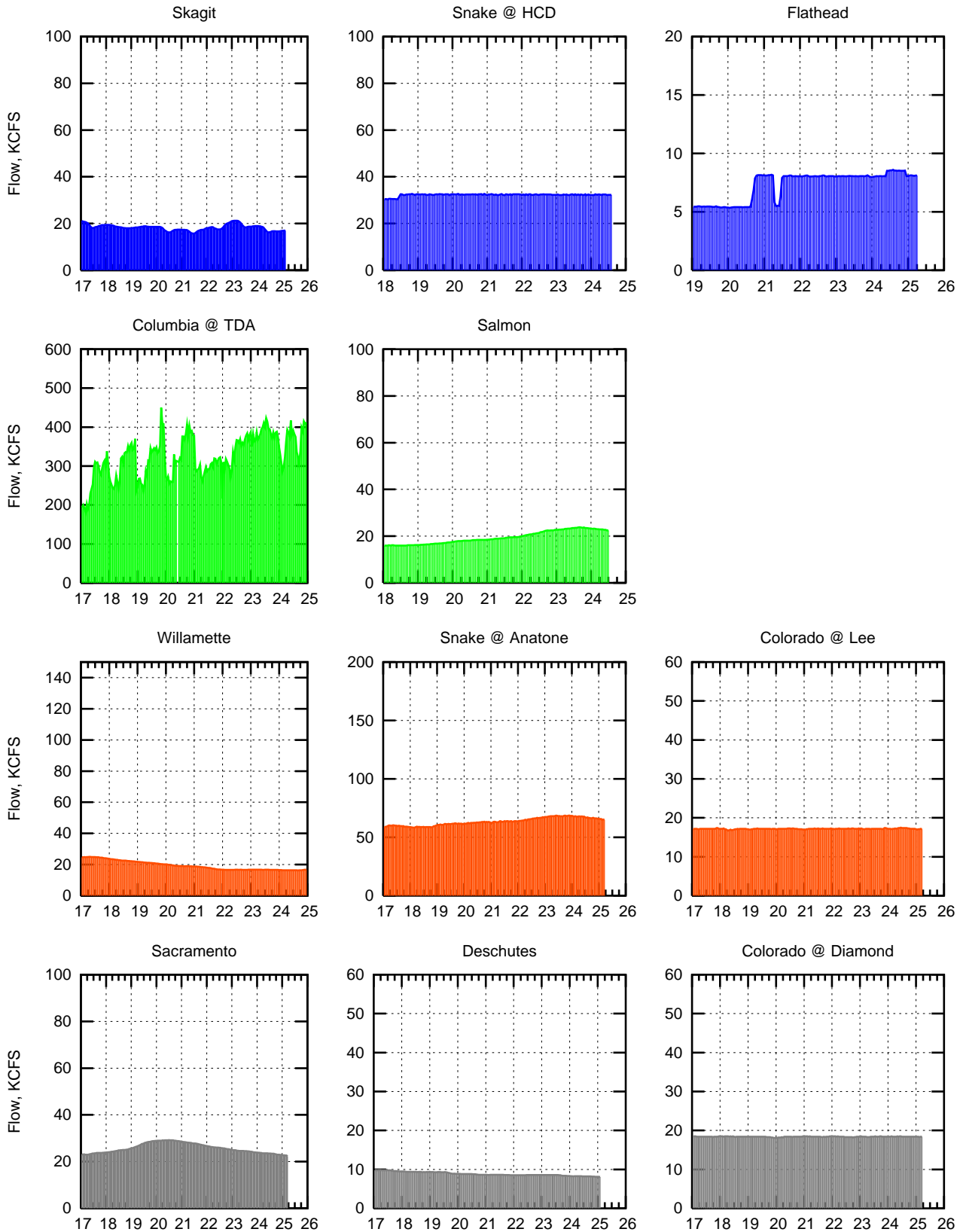
April 25, 2000

Daily Reservoir Summary  
July, 1997 - Present



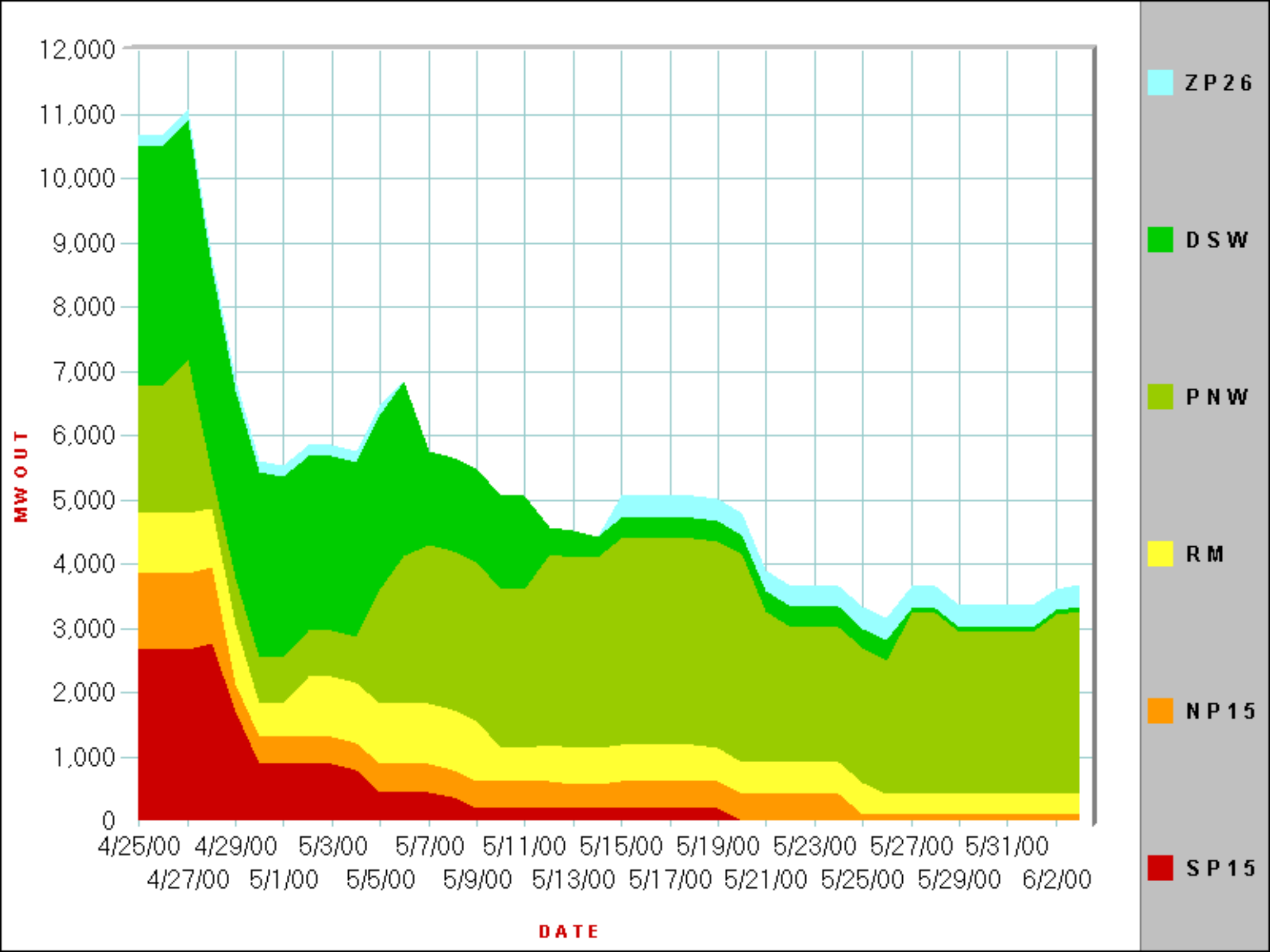


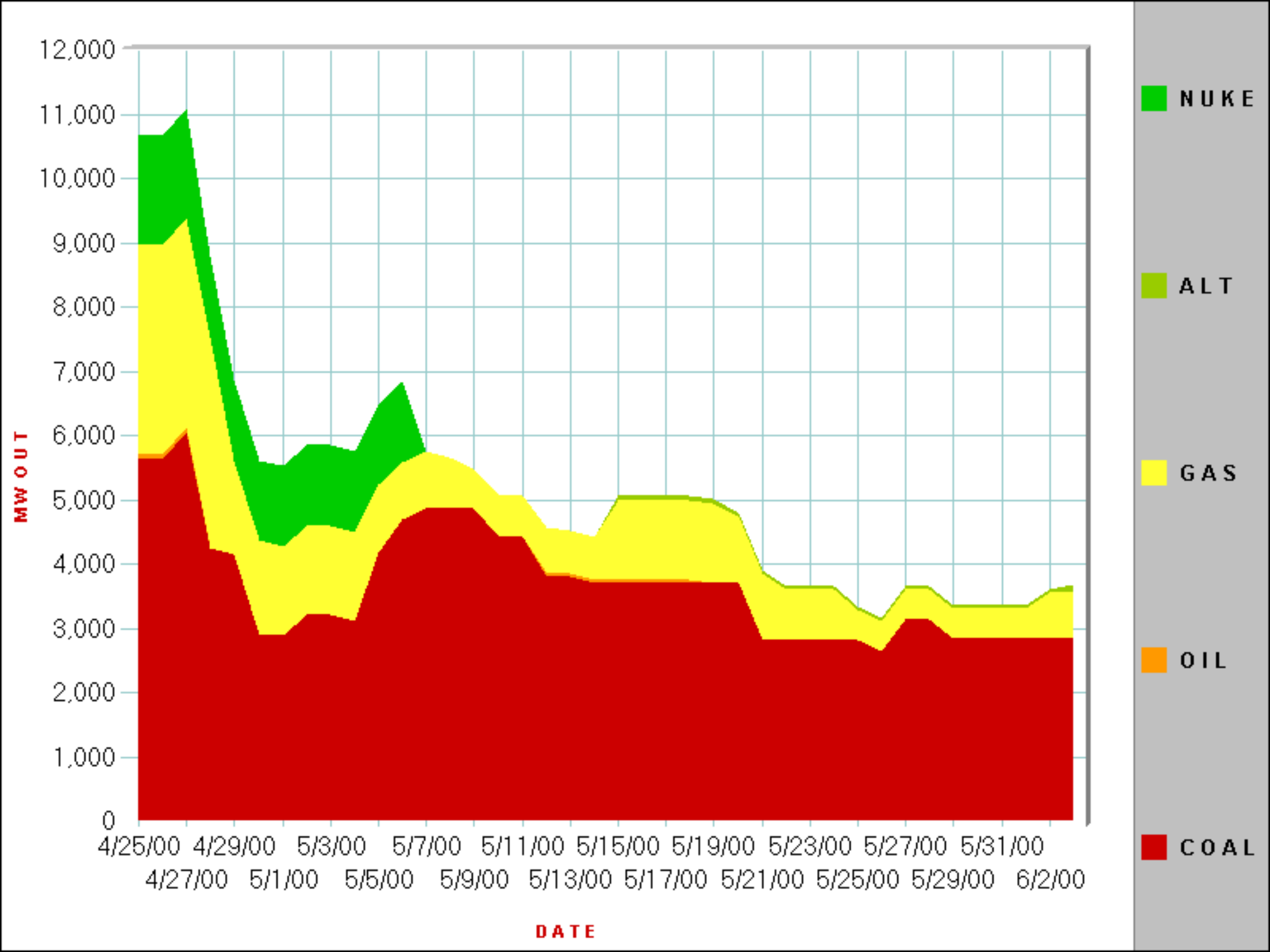
# USGS Western Daily River Summary

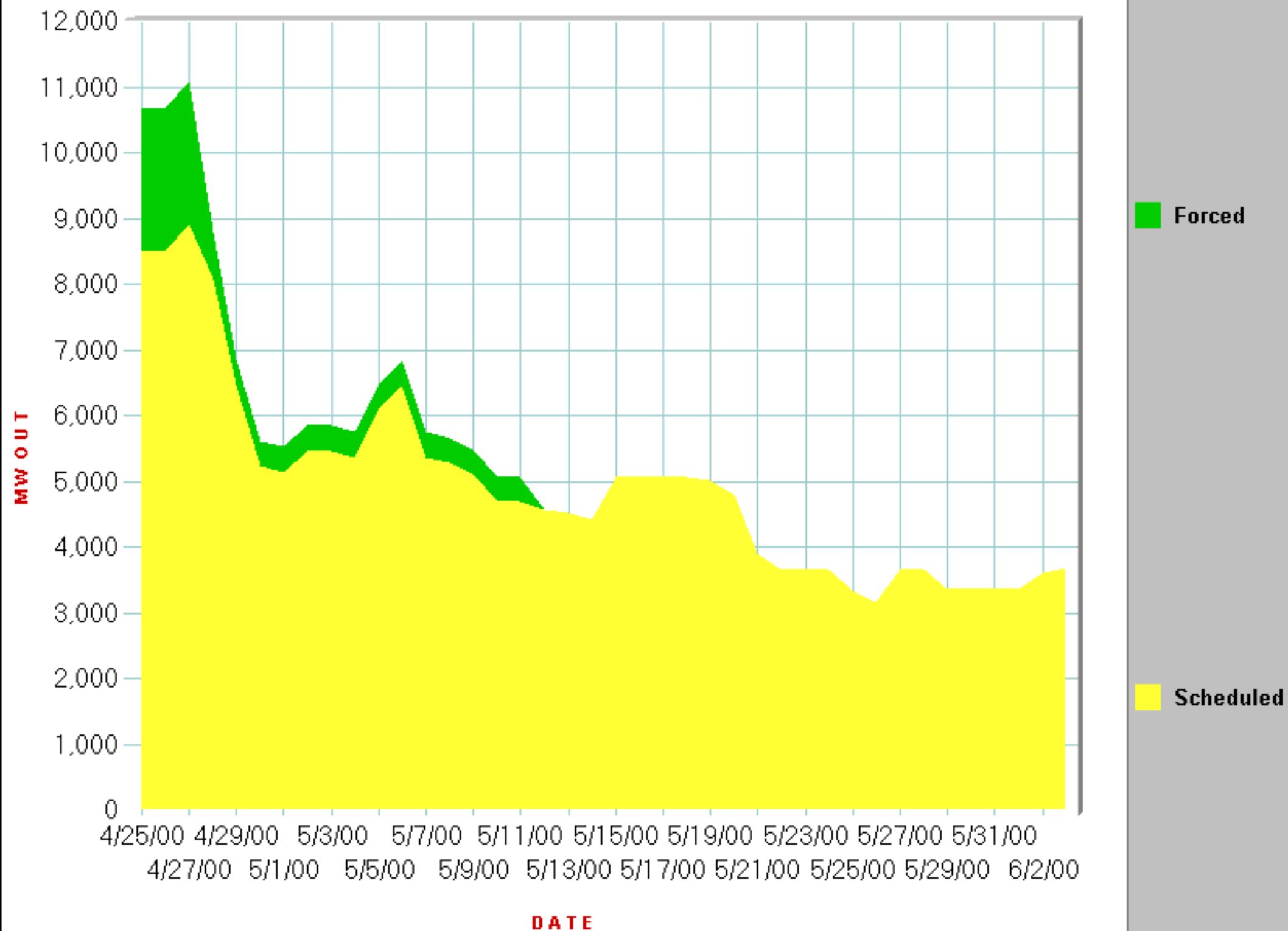


Confidential

April 25, 2000

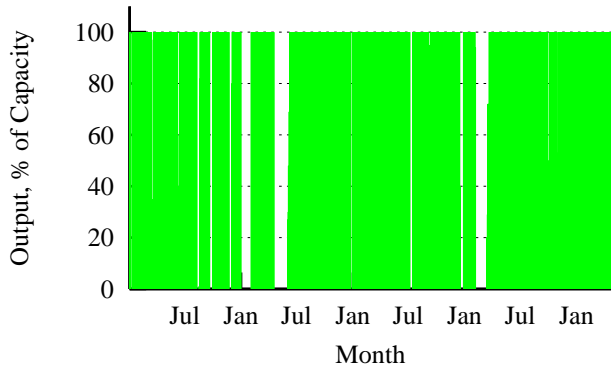




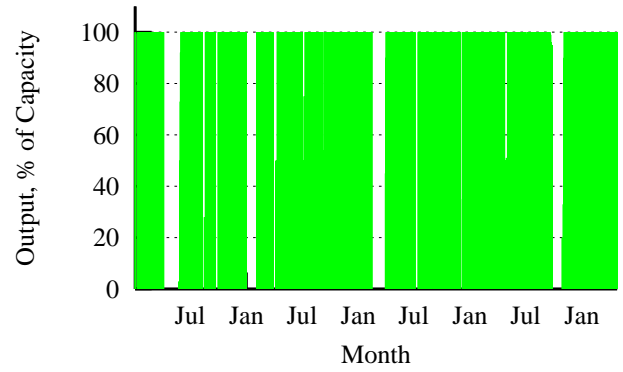


Nuclear Unit Status  
Weekdays Only  
1996 - Present

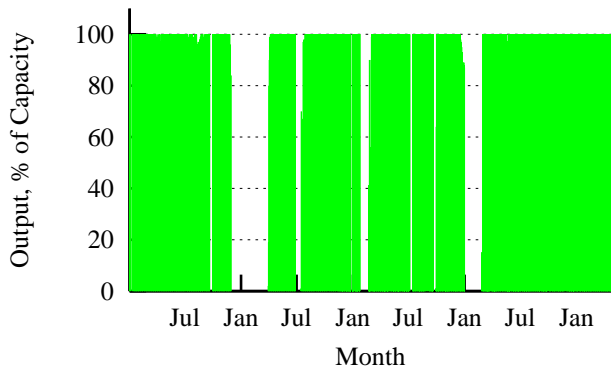
Diablo 1



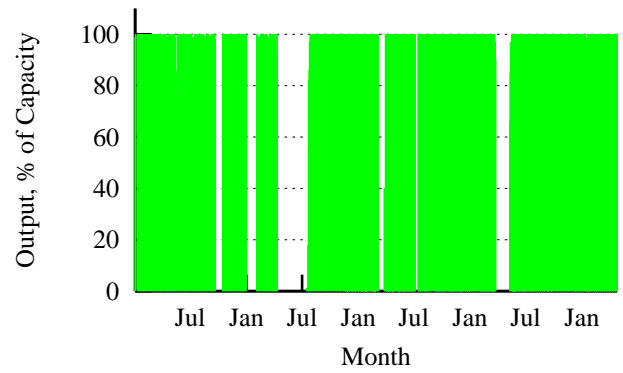
Diablo 2



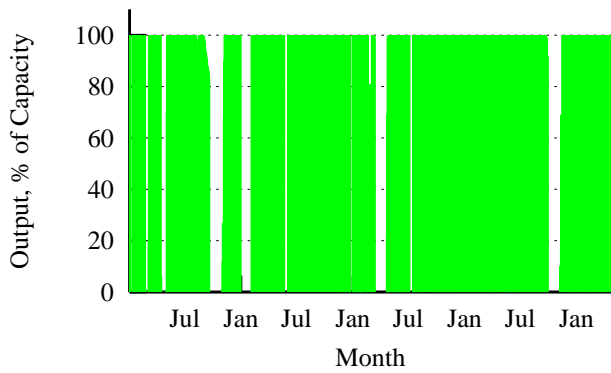
San Onofre 2



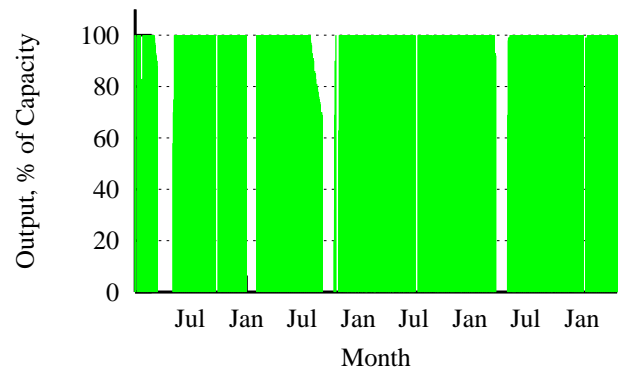
San Onofre 3



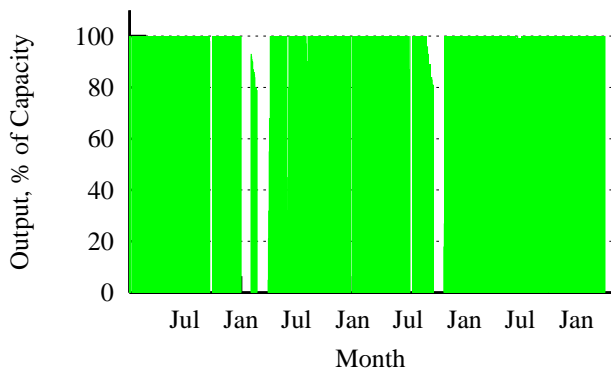
Palo Verde 1



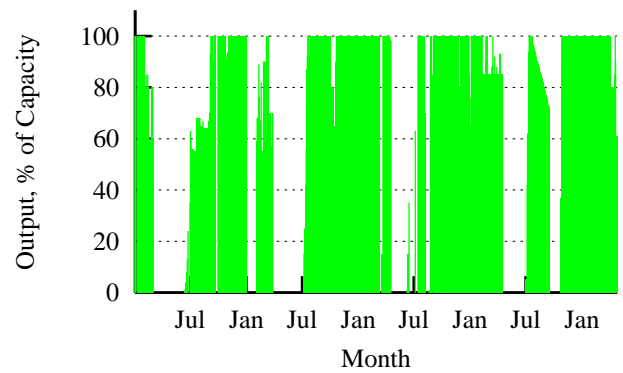
Palo Verde 2



Palo Verde 3

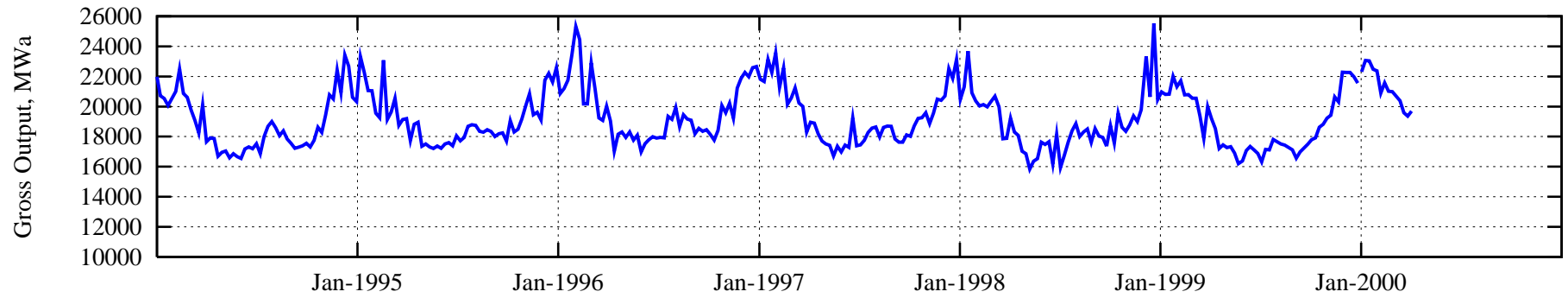


Washington Nuclear Plant 2

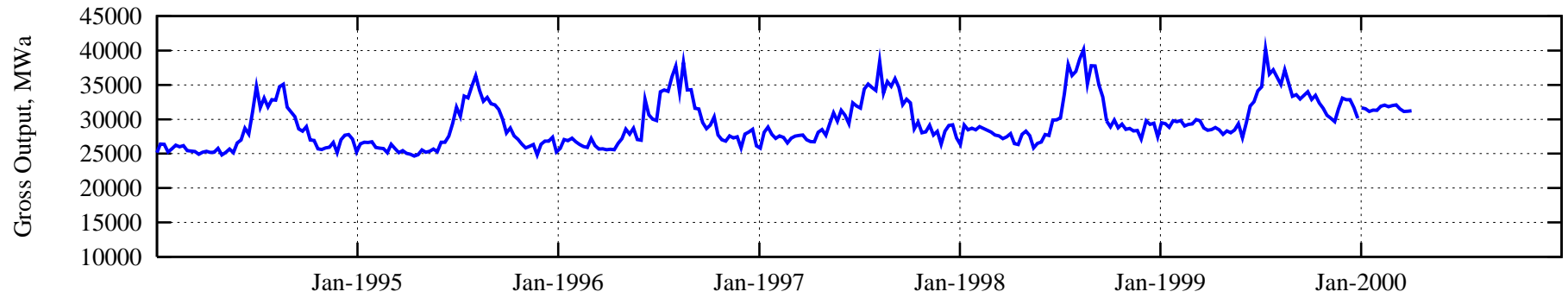


EEI Output Statistics  
1994 - 1999

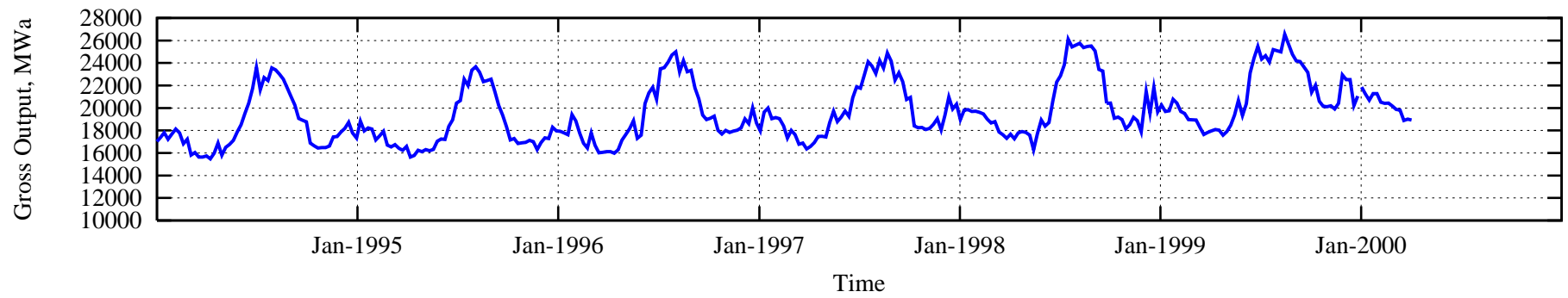
Pacific Northwest Weekly Electricity Production



Pacific Southwest Weekly Electricity Production



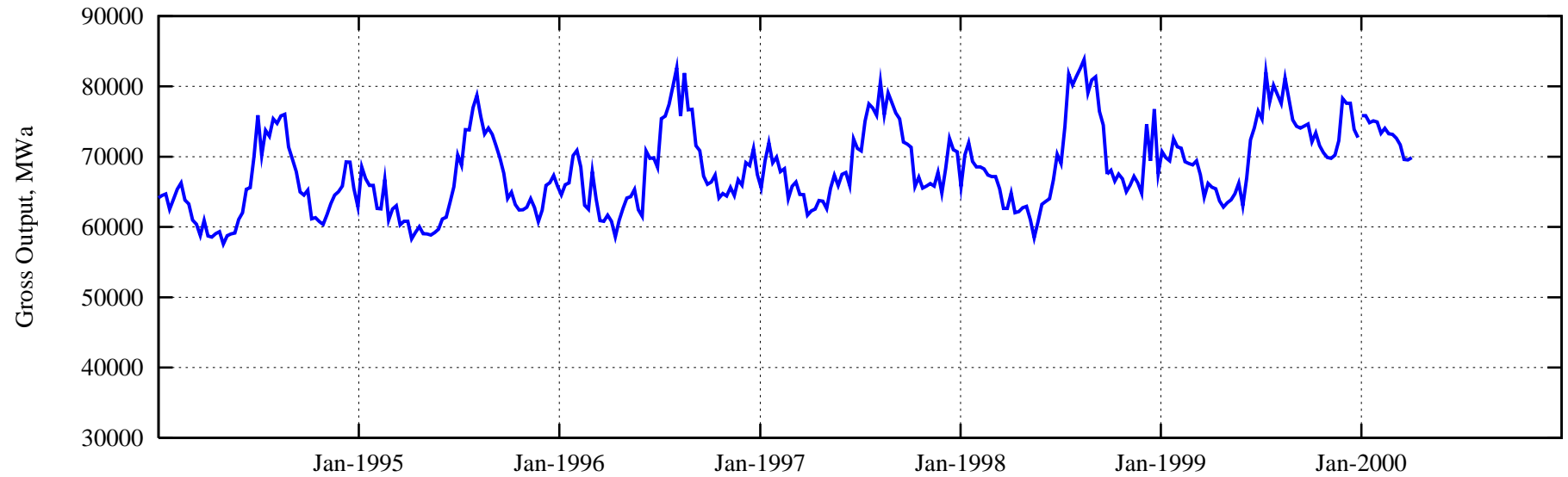
Rocky Mountain Weekly Electricity Production



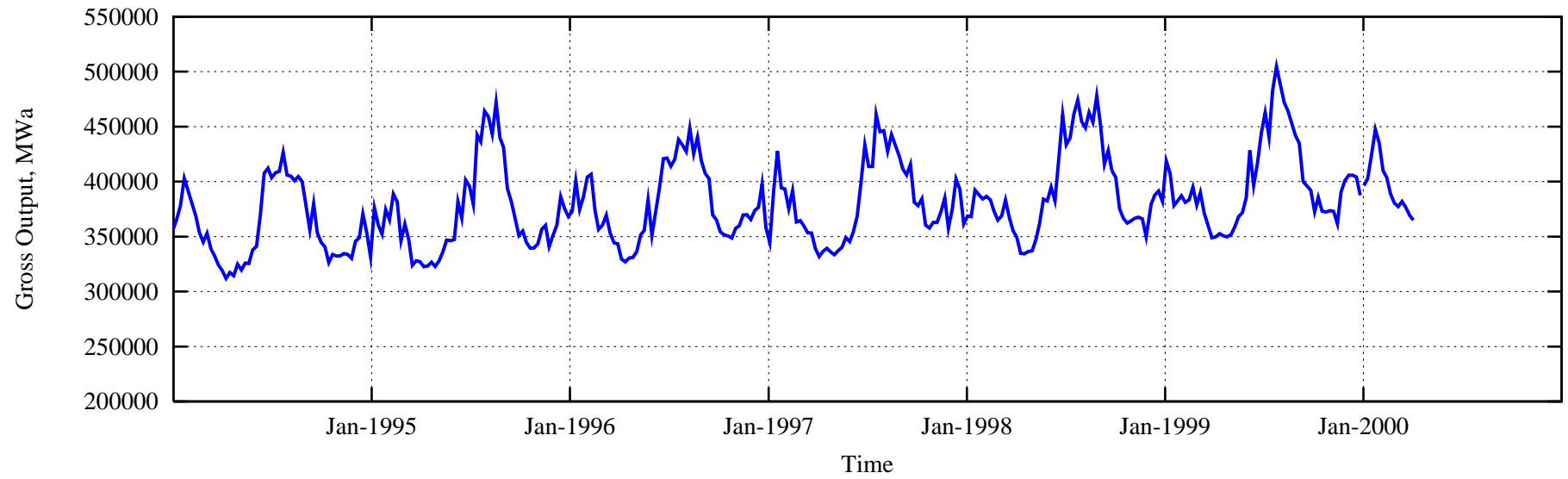
Confidential

EEI Output Statistics  
1994 - 1999

WSCC Weekly Electricity Production



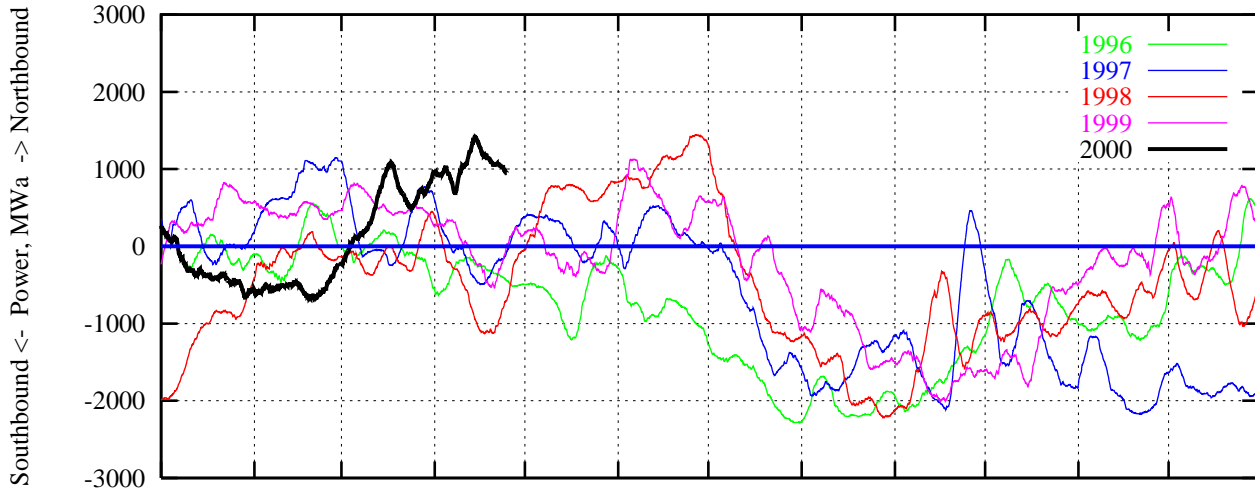
US Weekly Electricity Production



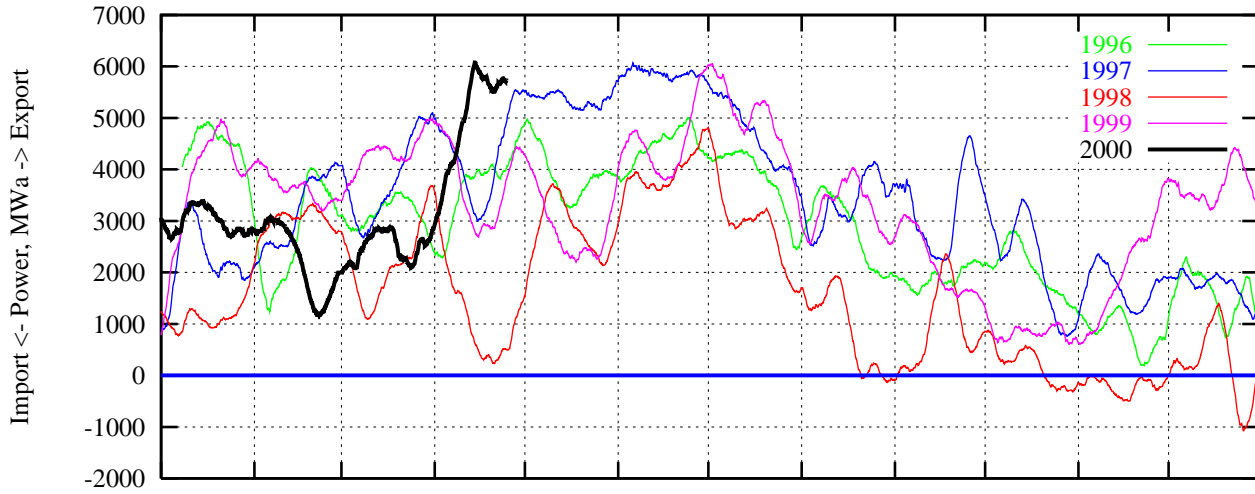
Time  
Confidential

## Pacific Coast Intertie Status

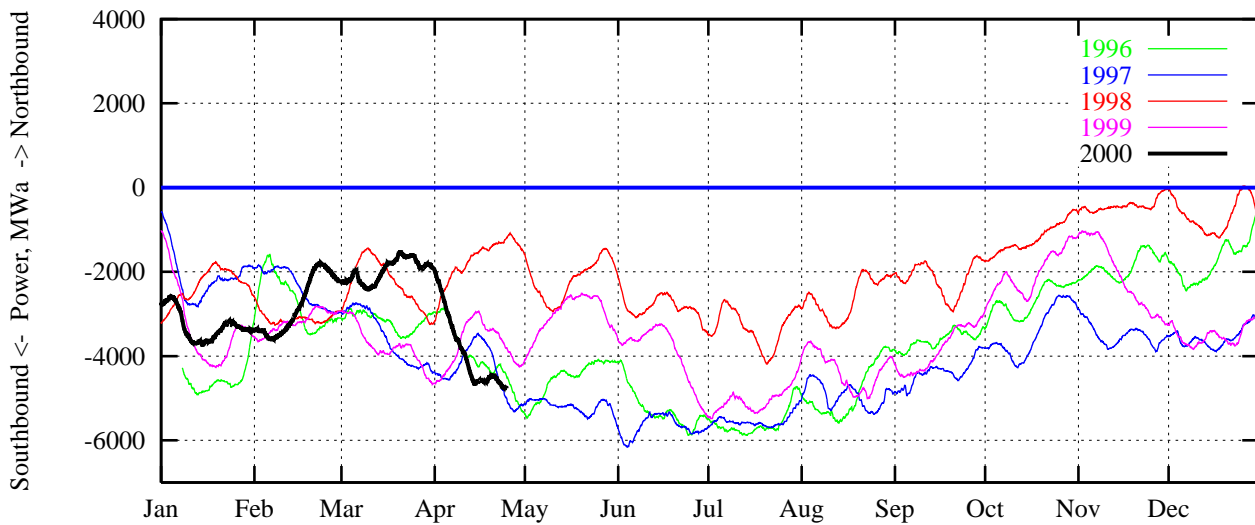
### Northern Intertie



### Pacific Northwest Net Exports



### PNW / PSW Intertie





Northern Intertie: Actual Flow

