

# System Condition Update

## Spring Operations Review Forum

June 1, 2012

1:00 – 2:00 p.m.

To participate in the call please dial: **(877) 336-1839**

When prompted, enter access code: 1687421



Celebrating 75 years of  
serving the Northwest

# Hydro Operations Update

The Federal Columbia River Power System is being operated on a controlled refill.

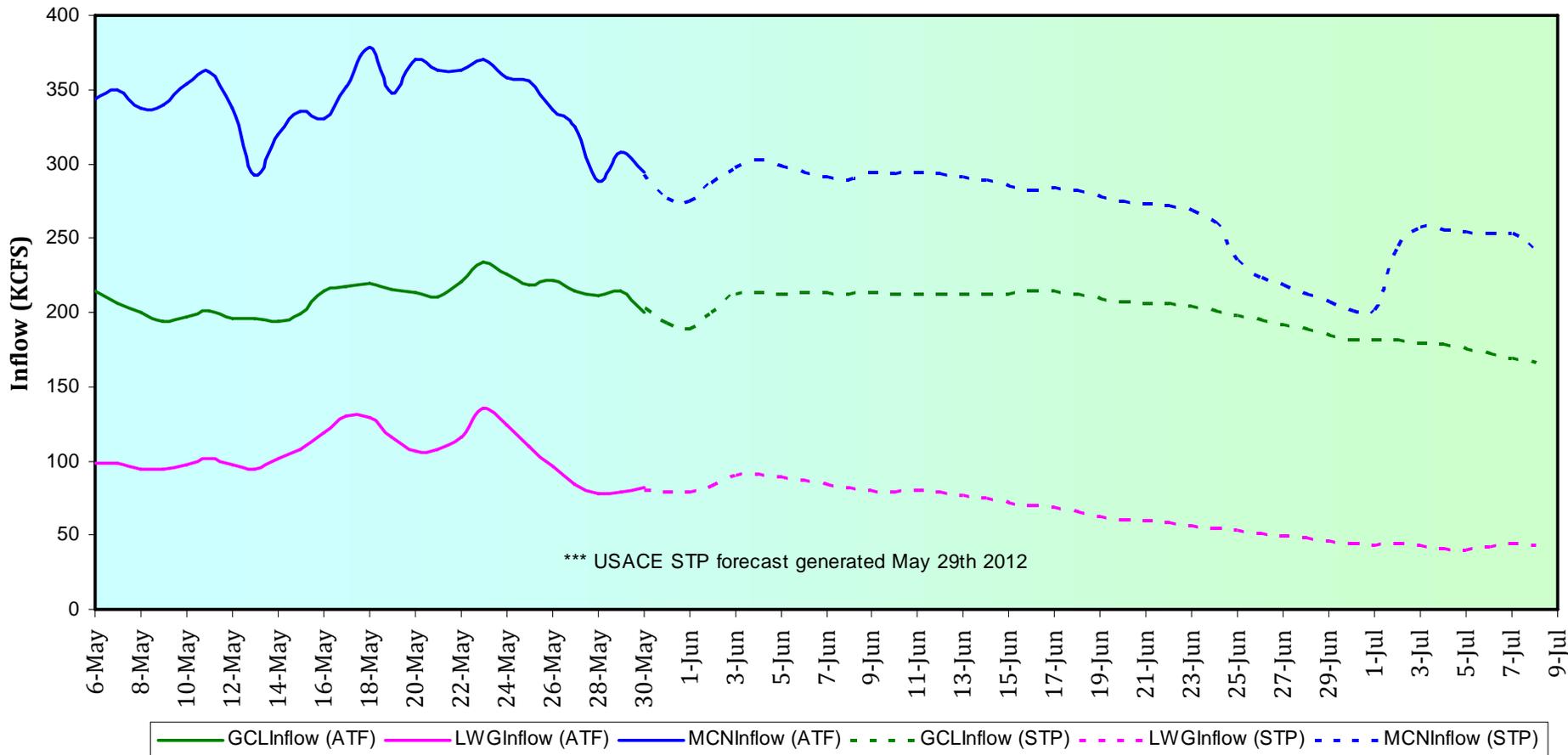
- Reservoir operations transitioned from drafting to refill on April 24.
- Continue to operate the system for flood control/refill operations. Maximum discharge at The Dalles of 420 kcfs.
- The NW River Forecast Center's May 24, January-July Water Supply Forecast at The Dalles is 116 million acre-feet.
- Oversupply Management Protocol has not been implemented this week. To date, approximately 20,600 MW-hrs of wind generation have been displaced. Please refer to the external website for further details.
- Columbia Generating Station synced to the grid just before midnight on May 29. It is scheduled to reach full power late on May 31.

# Actions to manage oversupply

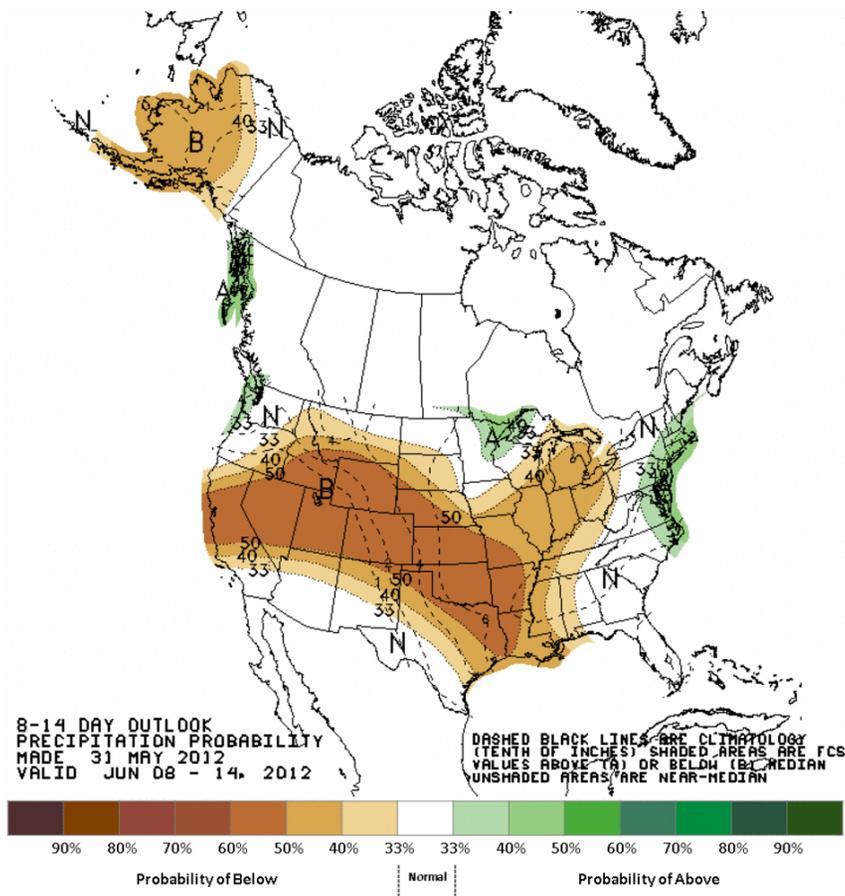
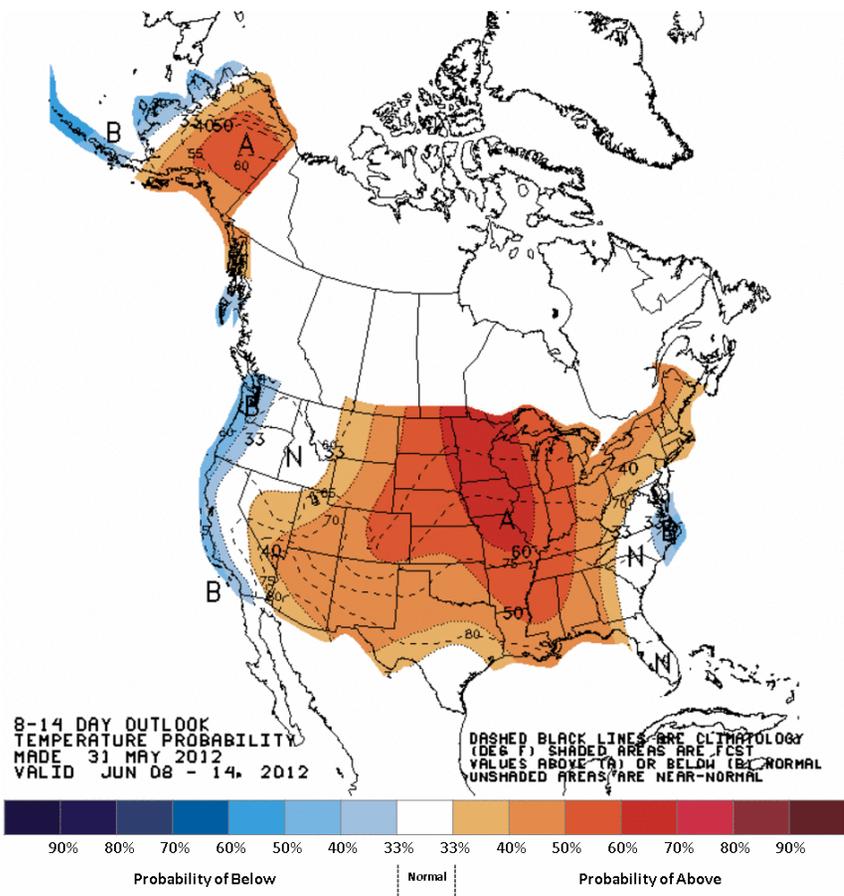
- Last fall/winter BPA and BC Hydro released water from non-treaty storage in Canada. The space created by the releases last fall/winter has allowed Arrow outflows to be lower than they would have been absent the Non-Treaty Storage agreement. BPA and BCH stored 140 ksf (thousands of second-foot days) under this agreement the week of May 26 – June 1 to be released in August.
- As of May 16, BPA has acquired 66,260 MWh under the Mid-Columbia Spill Exchange agreement.
- Maximizing the amount of pump load.
- Have moved non-essential generator and transmission maintenance outages out of May and June.
- Coordinated spill on Willamette projects.
- CGS has been reduced to 85% during periods when it was helpful to minimize spill.
- Spill due to lack of demand.
- BPA has developed and is now using a new product that allows for recallable energy that is helping to reduce the amount of over-generation spill and OMP.
- DEC reserves have been reduced briefly to manage to system operational objectives.

# Actual and Forecasted Flows

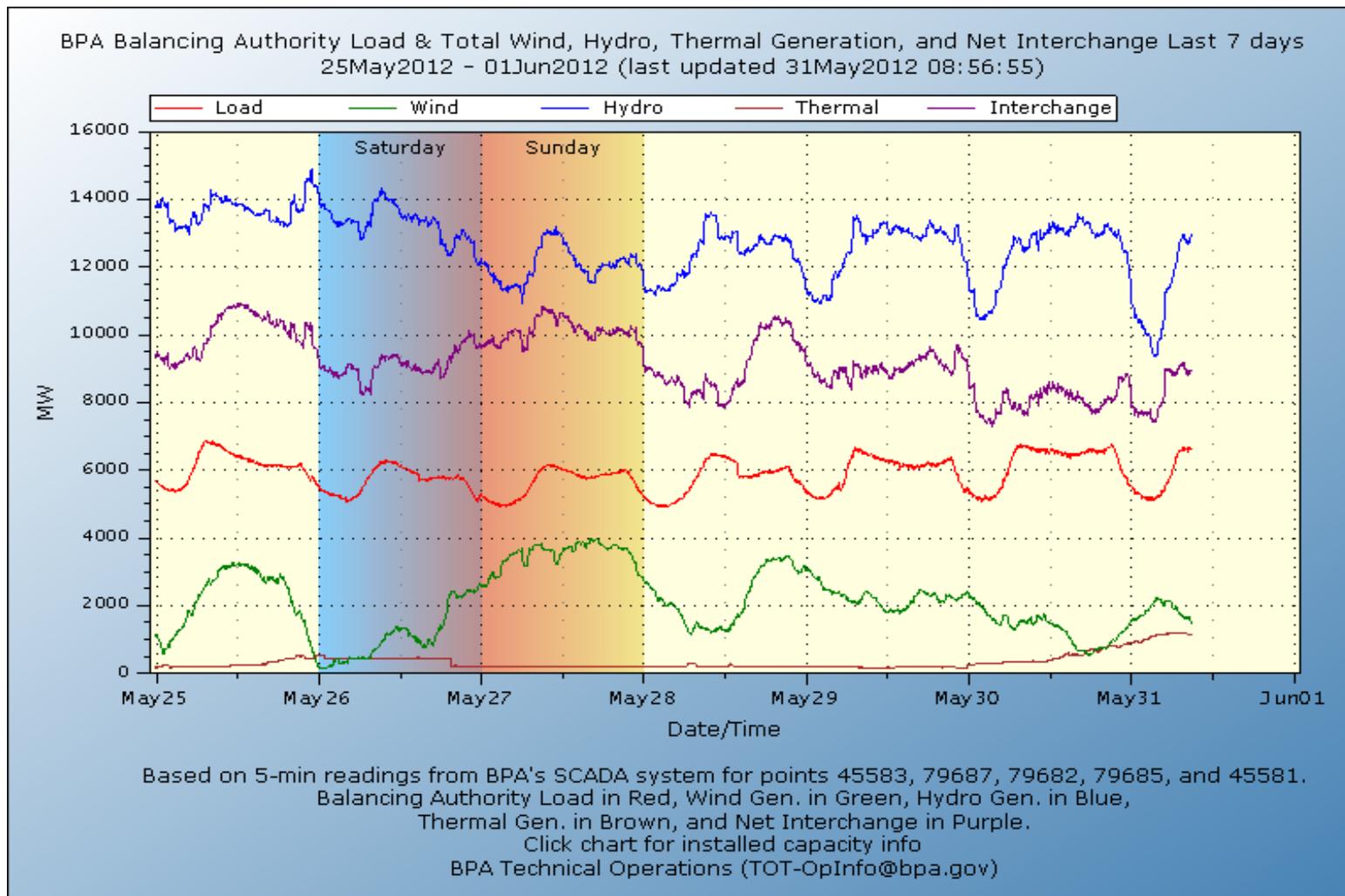
**Actual and Forecasted Inflows**  
**(Grand Coulee, Lower Granite and McNary Projects)**



# Weather and Streamflow



# Balancing Authority Load and Total Wind, Hydro, and Thermal Generation



# Transmission Updates

## ■ COI N>S

- 4050 MW: Through 6/1 due to CAISO Tracy-Los Banos 500kV Line.
- 4300 MW: 6/2 HE 09 to HE 18 due to BPA John Day-Grizzly 2 500kV Line.
- 4100 MW: 6/4 to 6/22 due to CAISO Los Banos-Gates 500kV Line.
- 4050 MW: 6/6 HE 06 to HE 18 due to CAISO Tesla-Los Banos 500kV Line.

## ■ PDCI N>S

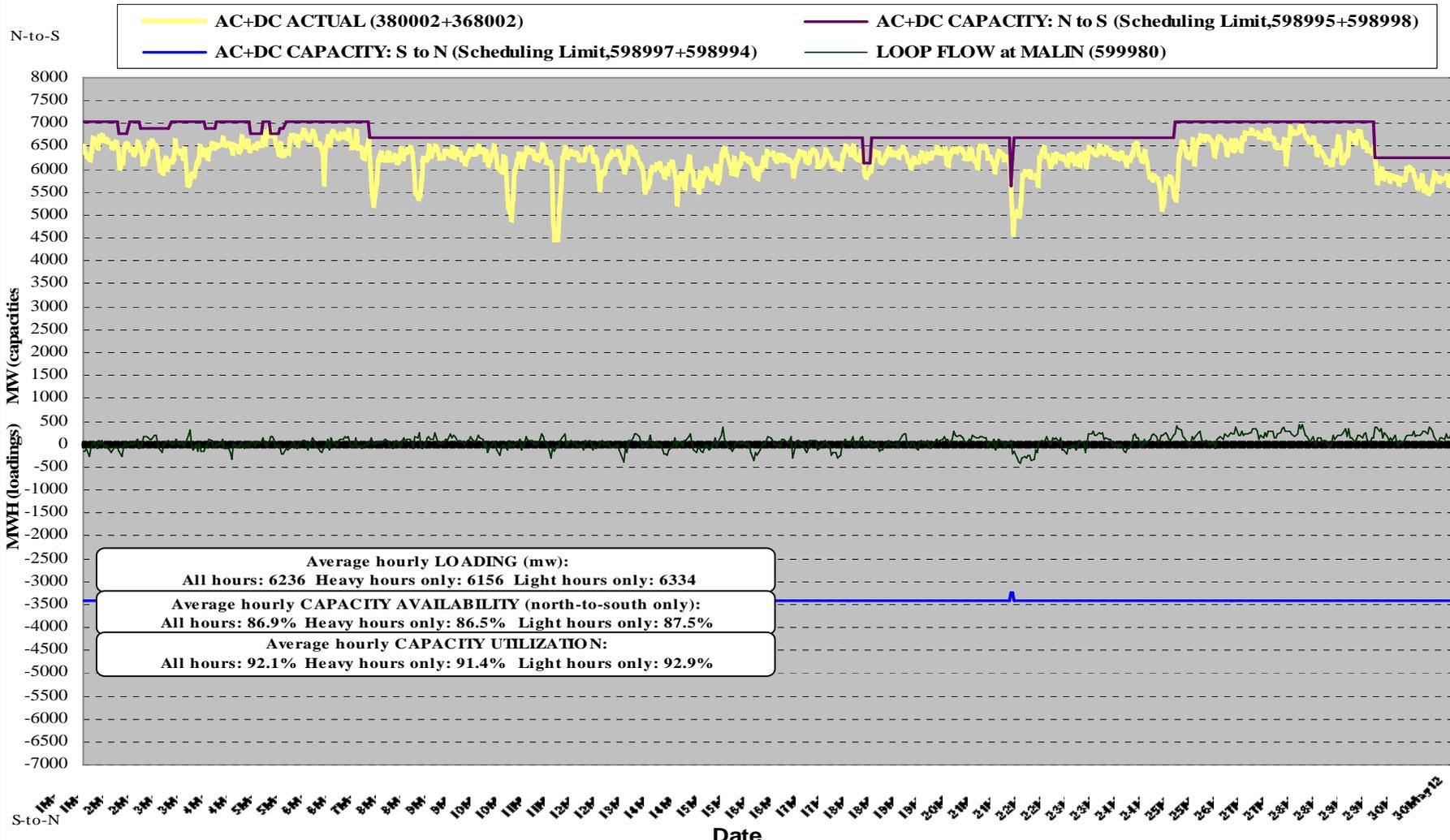
- 2990 MW: At rated capacity next seven days.

## ■ NI S>N

- 1950 MW: Nomogram deductions seen in preschedule forecast reduce capacity as low as ~1500 MW over various hours.

## AC+DC INTERTIE AVAILABILITY & UTILIZATION: 01MAY12 - 30MAY12 (30 days)

### ACTUAL LOADINGS and CAPACITIES, BY HOUR

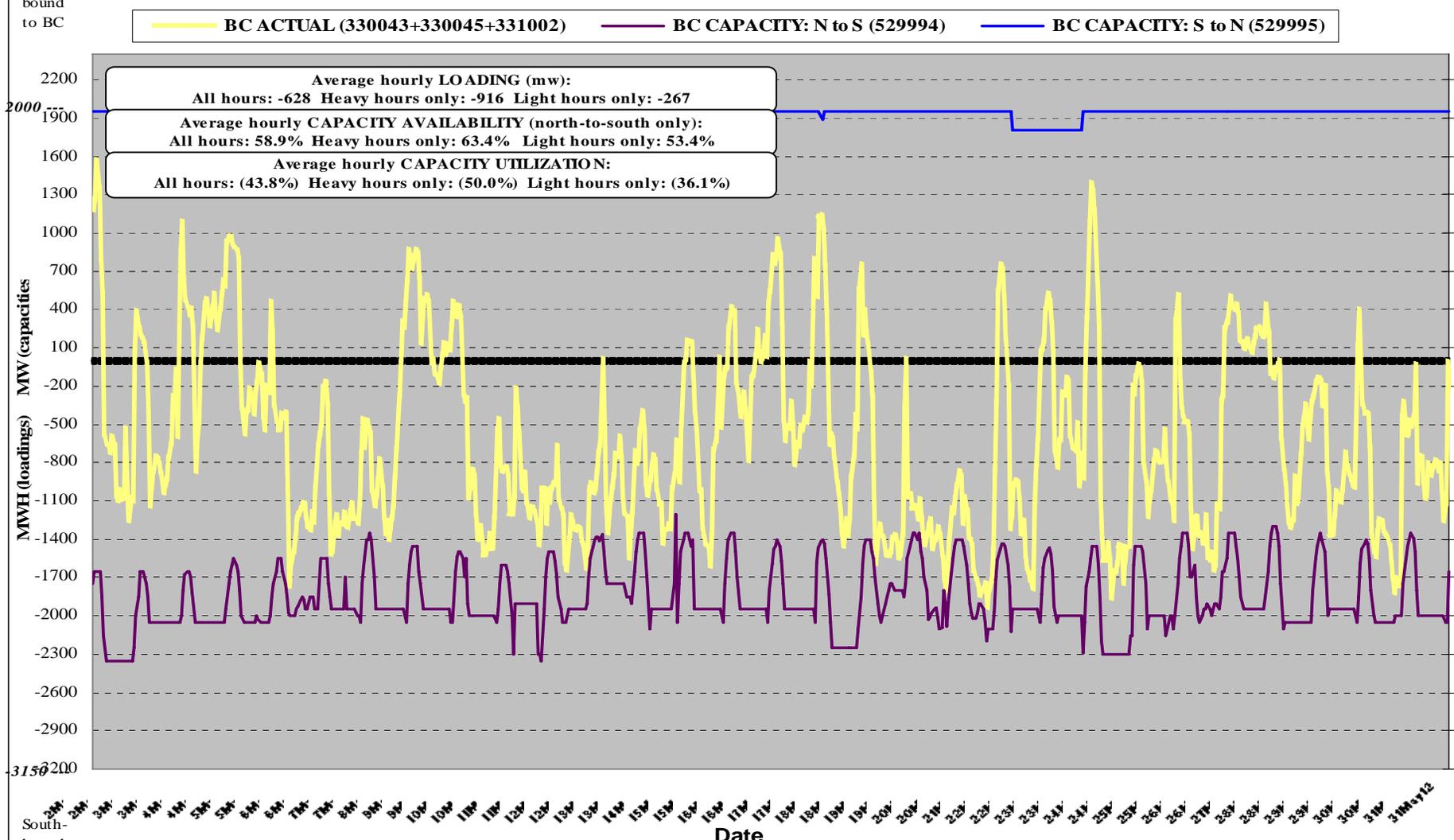


capacity availability = actual capacity/rated capacity, capacity utilization = actual loading/actual capacity  
 Source: Hourly data via RODS; Capacities are those at COB or NOB and reflect total path scheduling limit

Actuals may exceed scheduling limit as long as conditions remain within North-of-John-Day vs. COI & PDCI operating nomogram limits

**BC INTERTIE (WEST+EAST) AVAILABILITY & UTILIZATION: 02MAY12 - 31MAY12 (30 days)**

**ACTUAL LOADINGS and CAPACITIES, BY HOUR**



capacity availability = actual capacity/rated capacity, capacity utilization = actual loading/actual capacity  
 Source: Hourly data via RODS; Capacities are those as recorded by and used for scheduling, and are based on electrical limits, not considering Intertie ownership shares; Rated capacities labeled as -3150 (N-S) and 2000 (S-N)

# Contact Information

- To discuss within month commercial transactions, please contact Robert Johnson at (503) 230-3183, [rcjohnson@bpa.gov](mailto:rcjohnson@bpa.gov).
- To discuss prompt month and forward transactions, please contact Alex Spain at (503) 230-5780, [ajspain@bpa.gov](mailto:ajspain@bpa.gov) or Mark Miller at (503) 230-5780, [memiller@bpa.gov](mailto:memiller@bpa.gov).
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- Overgeneration website:  
<http://www.bpa.gov/corporate/AgencyTopics/ColumbiaRiverHighWaterMgmt/>