Water Supply Conditions Update

Water Resources Business Area Seattle Public Utilities

April 1, 2010

Seattle's Water Supply Status

April 1, 2010

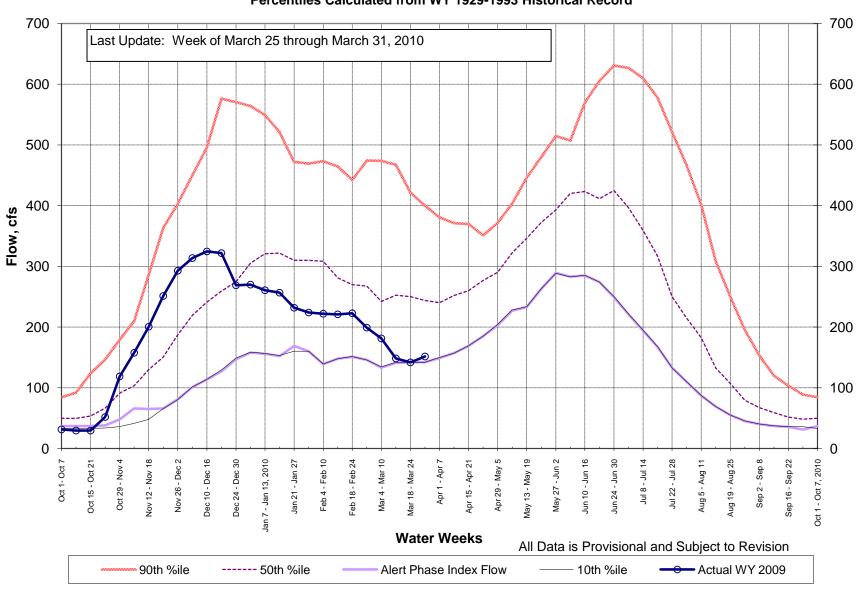
Our overall water supply situation and outlook is good.

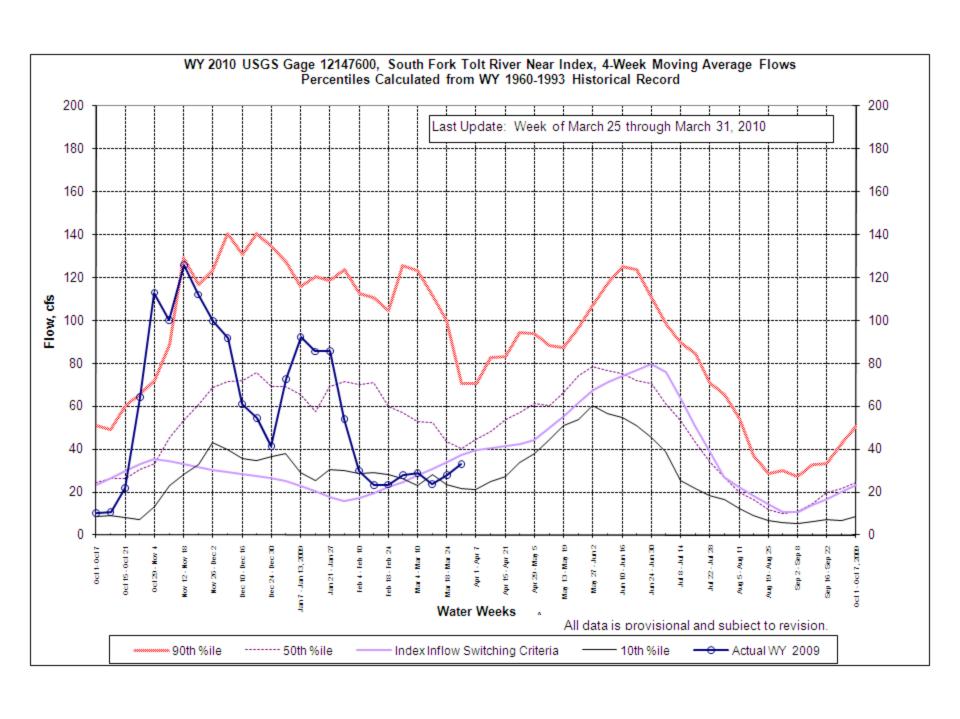
Seattle Water Supply Indicators		
Reservoir Storage		
Reservoir Inflows		
Snowpack		
Customer Use		
Overall		
■Good ● Fair ● Poor For more information, visit <u>www.savingwater.org</u>		

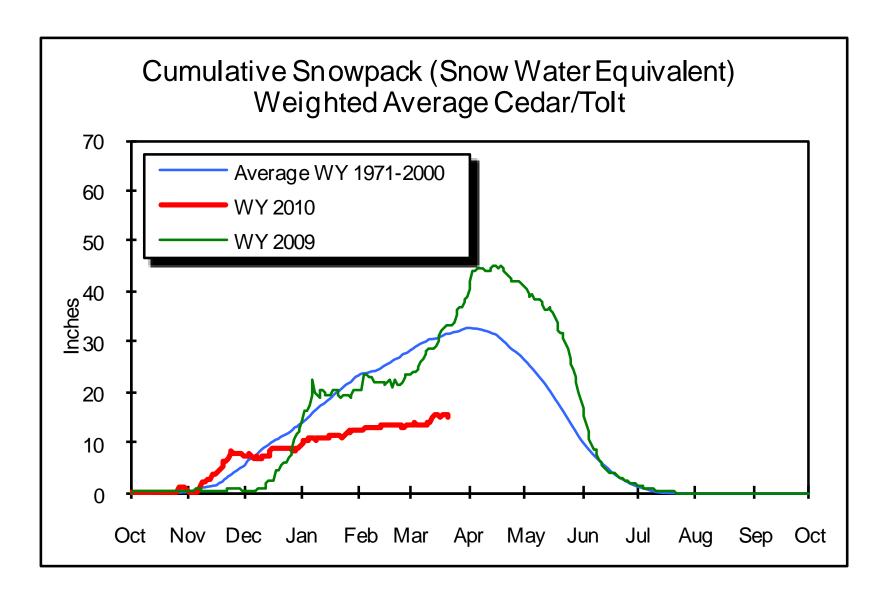


Masonry Pool Reservoir taken on March 21, 2010 Photo Credit: Lloyd Buster

WY 2010 USGS Gage 12115000, Cedar River Near Cedar Falls, 8-Week Moving Average Flows Percentiles Calculated from WY 1929-1993 Historical Record



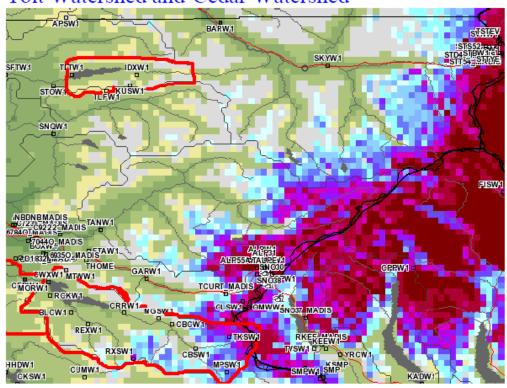


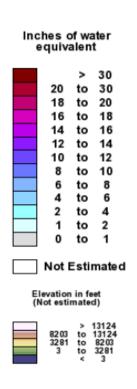


Experimental Snow Water Equivalent Map – March 23, 2010



Tolt Watershed and Cedar Watershed





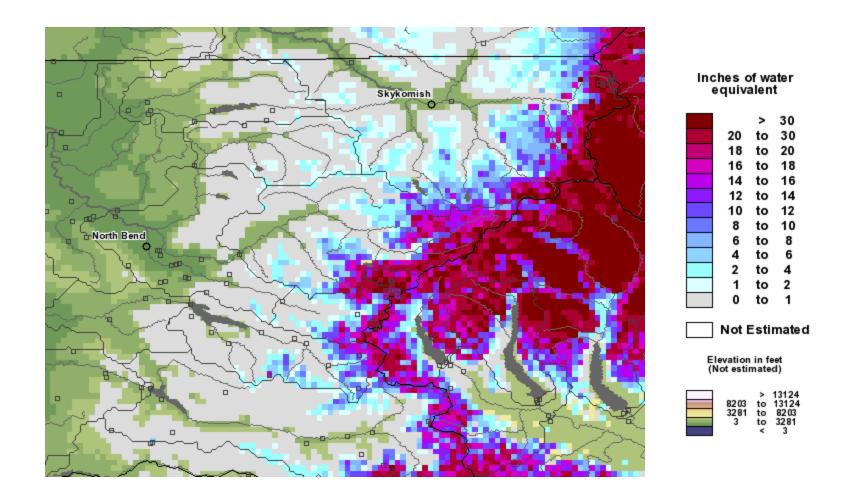
Snotel Station ID:

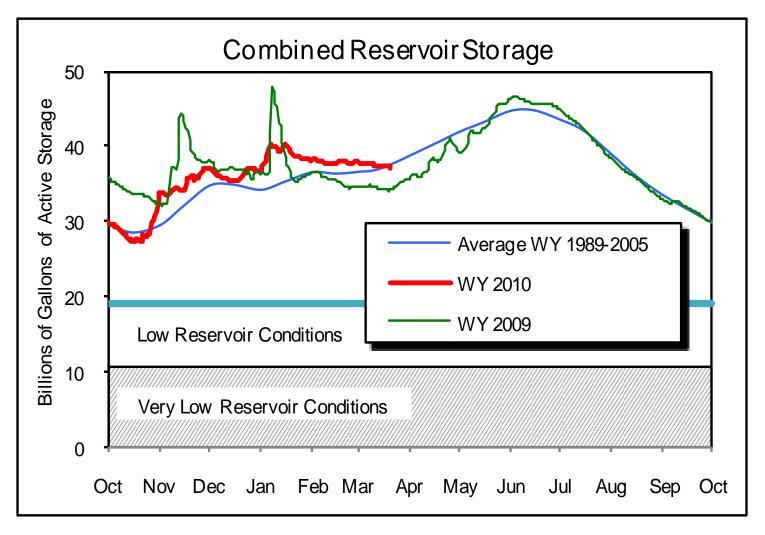
KUSW1* = Skookum, elevation 3920 feet APSW1 = Alpine Meadows, elevation 3500 feet SVNW1 = Stevens Pass, elevation 4070 feet

Snotel Station ID:

RXSW1* = Rex River, elevation 4000 feet
MGSW1* = Mount Gardner, elevation 3000 feet
MPSW1* = Meadows Pass, elevation 3500 feet
TKSW1* = Tinkham Creek, elevation 3070 feet
CUMW1 = Cougar Mountain, elevation 3200 feet
OMWW1 = Olallie Meadows, elevation 3700 feet
SMPW1 = Stampede Pass, elevation 3860 feet

^{*} Snotel Station is located within the watershed.



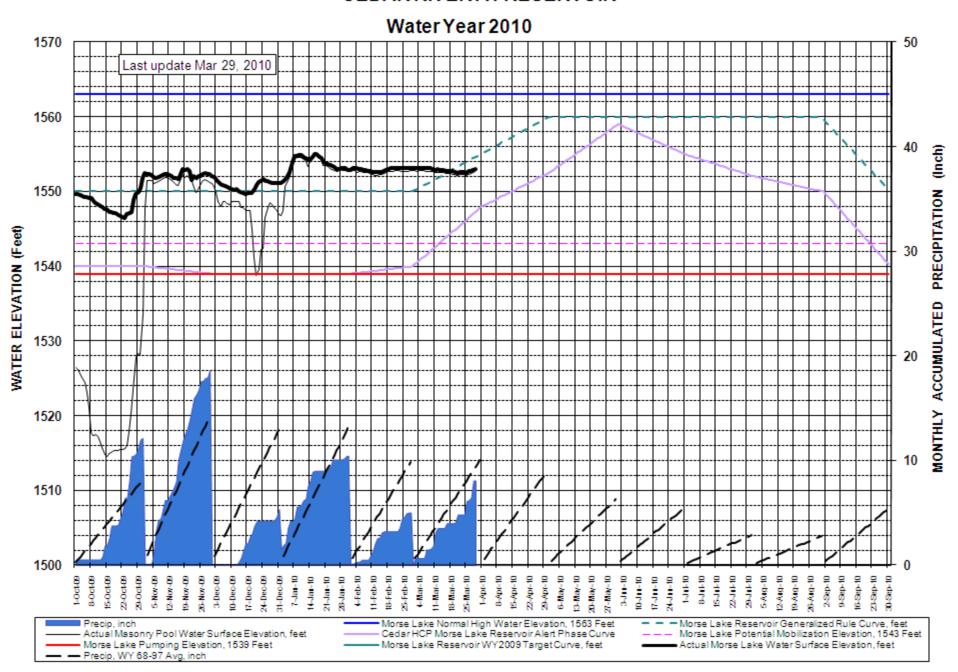


Low Reservoir Conditions: CML=1541.5, MP=1528', LY=497.4', SFT=1710'. Water is available below this level. Additional operational steps are taken when at this level.

Very Low Reservoir Conditions: CML=1532', MP=1510', LY=479.4, SFT=1710'. More water is available. Additional operational steps are taken when at this level.

Zero Baseline for this Graph: CML=1515', MP=1510', LY=479.4', SFT=1670'.

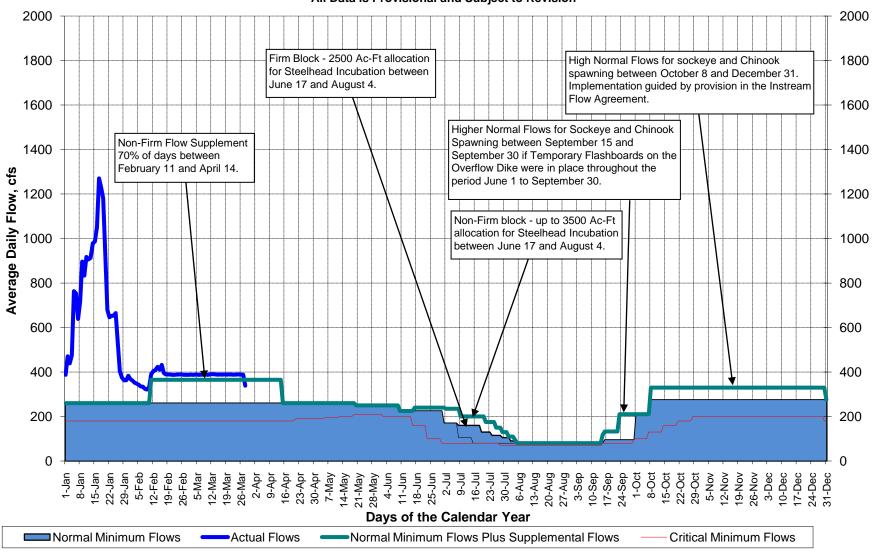
CEDAR RIVER AT RESERVOIR

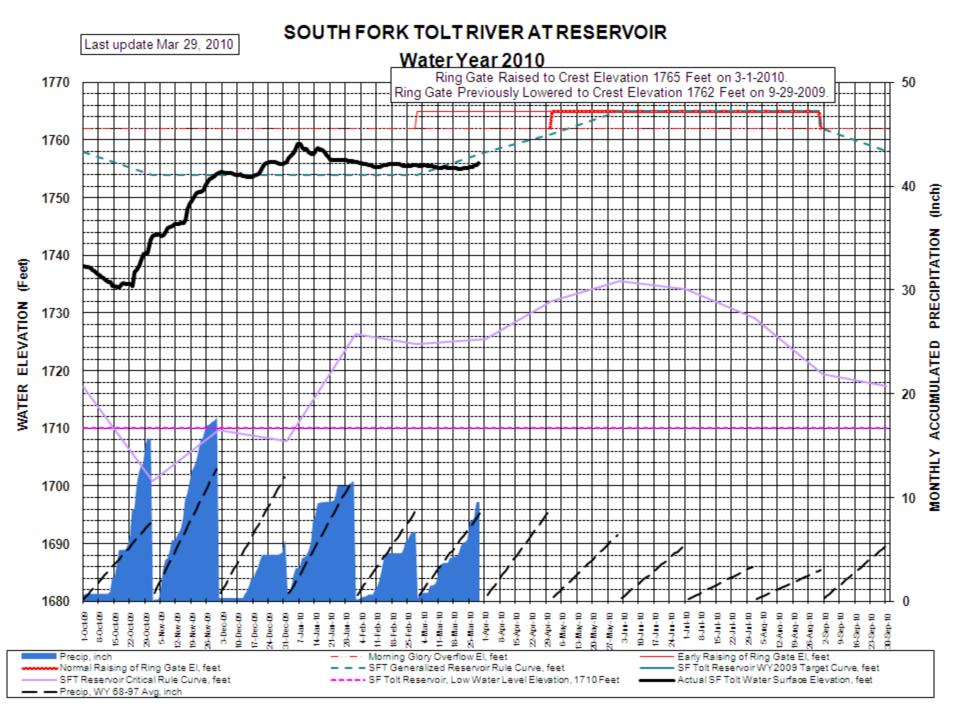


Last Update: 3/28/2010

Calendar Year 2010 Cedar River Instream Flows Measured at USGS Stream Gage No. 12117600

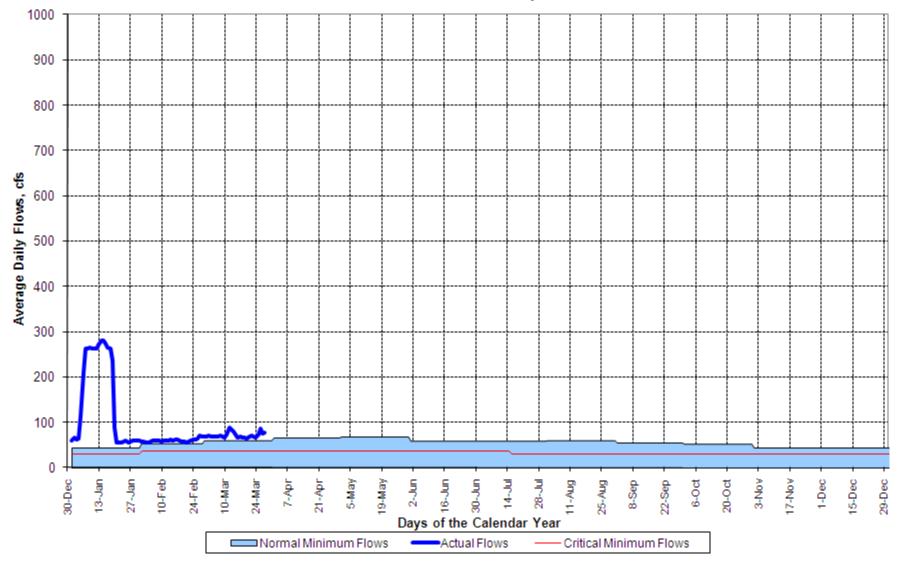
All Data is Provisional and Subject to Revision



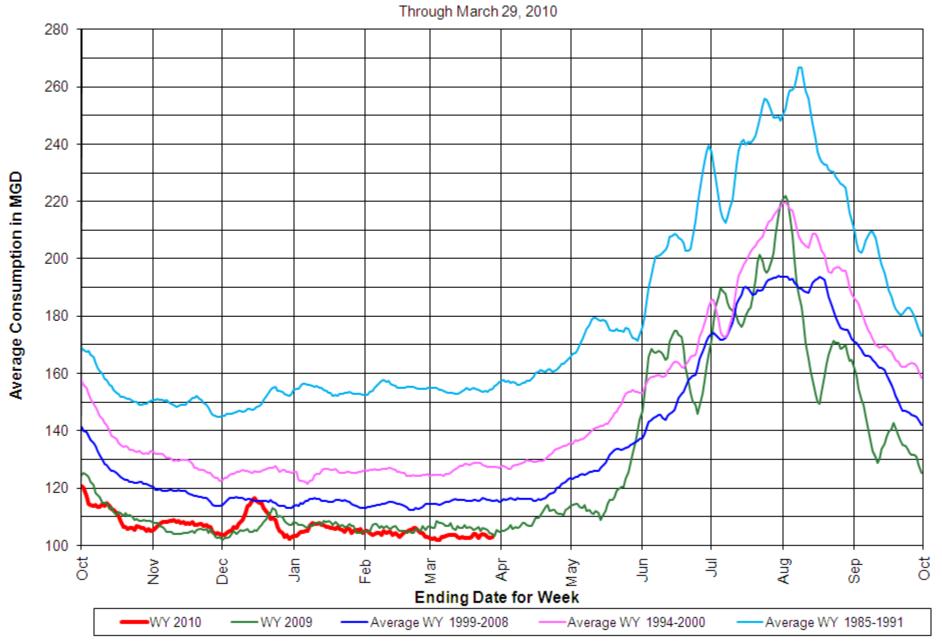


Last Updated: 3/28/2010

Calendar Year 2010 South Fork Tolt River Instream Flows Measured at USGS Stream Gage No. 12148000 All Data is Provisional and Subject to Revision

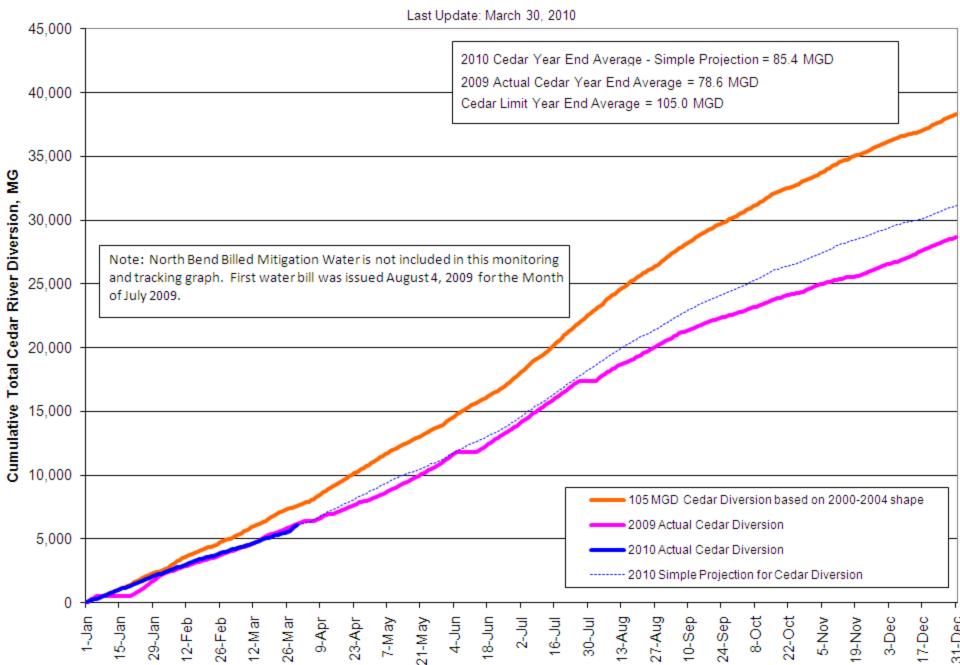


24-hr Consumption, 7-Day Moving Average

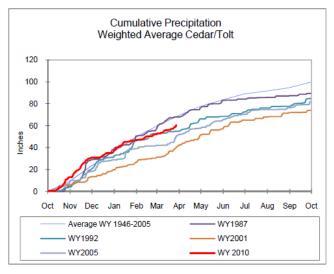


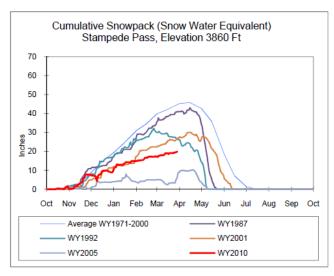
Notes: A. 7-day moving average is calculated using data from the day of and the previous 6 days. All Data is Provisional and Subject to Change

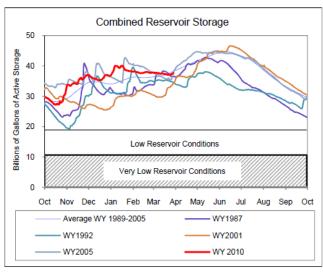
Cumulative Total Cedar River Diversion Calendar Year 2010 Monitoring and Tracking Graph

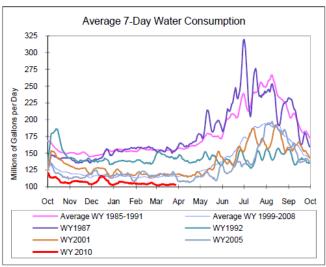


Seattle Public Utilities Water System Synopsis - Comparisons







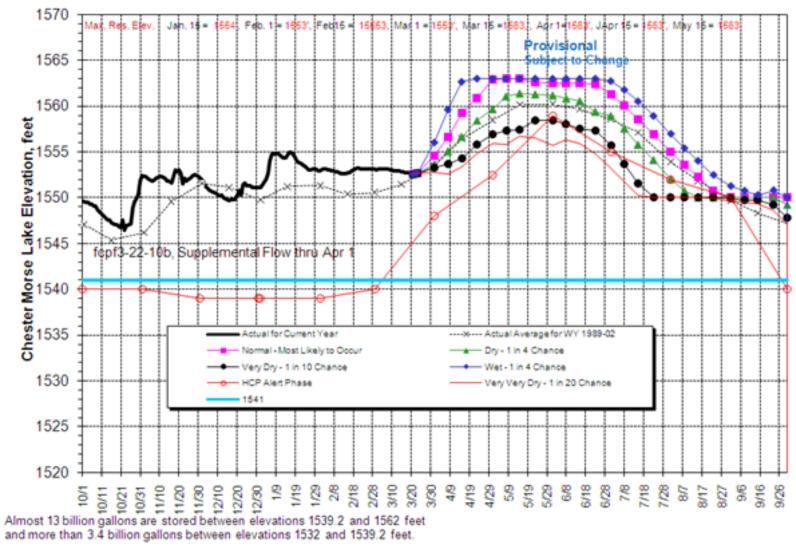


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Very Low Reservoir Conditions: CML=1532', MP=1510', LY=479.4, SFT=1710'. More water is available. Additional operational steps are taken when at this level.

Zero Baseline for this Graph: CML=1515', MP=1510', LY=479.4', SFT=1670'.

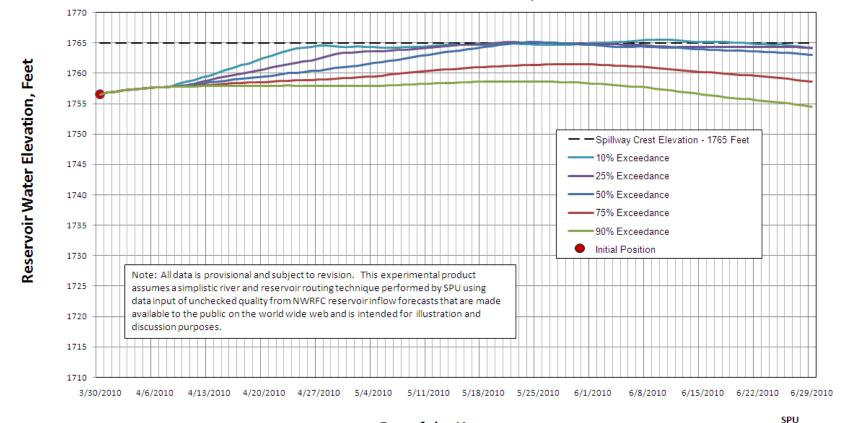
SCENARIO: Forecast of Chester Morse Lk Elev Actual Reservoir Elevation on 3/22/2010, Forecast thru 3-24, Hist. Data 3-25 thru 9-29 Flashboards 1550', Min. Pool 1515'



Seattle Public Utilities - Preliminary Draft for Discussion Purposes Only

SPU Experimental Probability Forecast - South Fork Tolt Reservoir Water Level

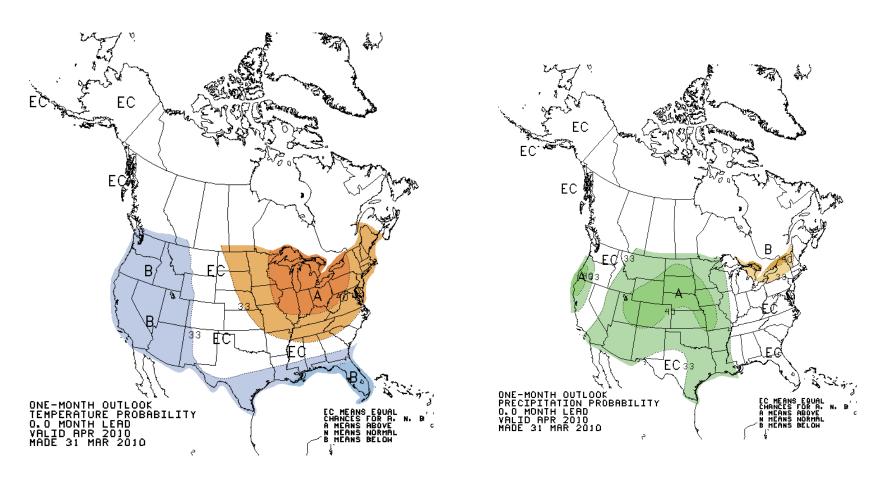
Calculations using NWRFC Extended Streamflow Prediction Model Probabilistic Reservoir Inflow Forecasts for SF Tolt Reservoir and Initial Conditions on March 30, 2010



Day of the Year

afc

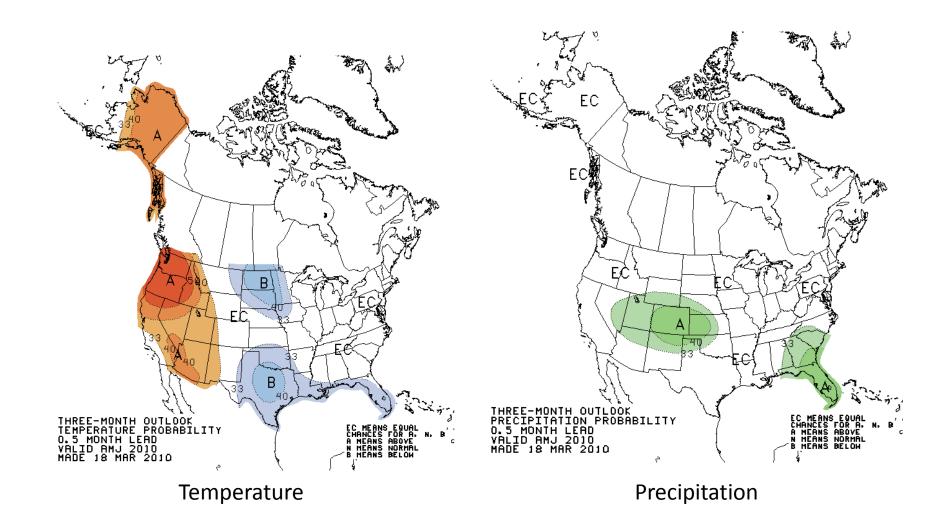
One Month Climate Forecast

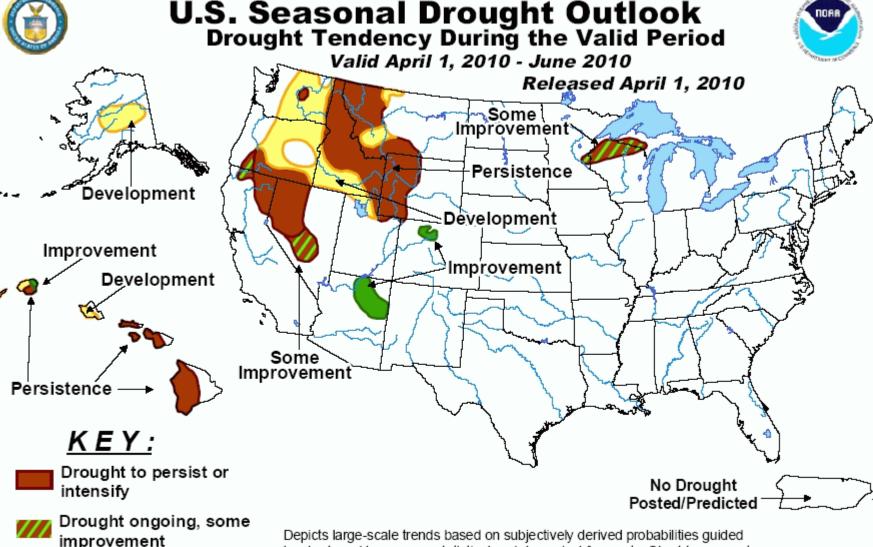


Temperature

Precipitation

Three Month Climate Forecast





impacts ease

likely

Drought development

by short- and long-range statistical and dynamical forecasts. Short-term events such as individual storms – cannot be accurately forecast more than a few days in advance. Drought likely to improve, Use caution for applications - such as crops - that can be affected by such events. "Ongoing" drought areas are approximated from the Drought Monitor (D1 to D4 intensity). For weekly drought updates, see the latest U.S. Drought Monitor. NOTE: the green improvement areas imply at least a 1-category improvement in the Drought Monitor intensity levels, but do not necessarily imply drought elimination.

Questions?