Water Operating Board Water Supply Update

February 6, 2013

Status Summary

- SPU continually monitors weather and snowpack conditions and has been preparing for less than average snowpack since late December
- State convening Water Supply Availability Committee
- Total Precipitation is less than normal; snowpack is low, 40% to 60% of median (Higher on the Tolt and lower on Cedar)

Things we have been doing and will do

- Maintain CML at 1553-54 ('dynamic rule curve') unless storm (>3-4 in and snow level is >5000) is 3-5 days out
- Request permission from FERC to raise Tolt Ring gate 3/1 if Snow is less than 70% of median on Feb 15
- Start Refill Tolt 3/1 CML at or about that time
- Continue to meet supplemental flow as we can for Chinook redds
- Spring Supplemental flow provide but recognize that it may not be possible to continue past mid March

Washington SNOTEL Current Snow Water Equivalent (SWE) % of Normal

Feb 04, 2014

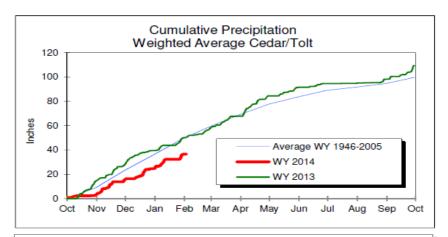
Current Snow Water Equivalent (SWE) Basin-wide Percent North of 1981-2010 Median **Puget Sound** Upper Columbia 65 unavailable * Spokane (Vanithrop 63 <50% 50 - 69% Central **Puget Sound** 79 70 - 89% Central Columbia 90 - 109% **3**3 110 - 129% 50 O Spokane 130 - 149% (Merektee Upper >=150% Yakima **Olympic** South GE BUM 52 * Data unavailable at time **Puget Sound** of posting or measurement is not representative at this **37** time of year grakima. 87 62 Lower Snake OBISMBIS 49 Lower Yakima Lower Columbia Provisional Data Subject to Revision ∎Miles 60 10 20 40 80 100



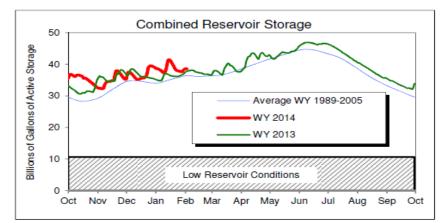
The snow water equivalent percent of normal represents the current snowwater equivalent found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).

Prepared by the USD A/NRCS National Water and Climate Center Portland, Oregon http://www.vvcc.nrcs.usda.gov/gis/Based on data from http://www.vvcc.nrcs.usda.gov/reports/Science.contact: Jim.Marron@por.usda.gov 503 414 3047

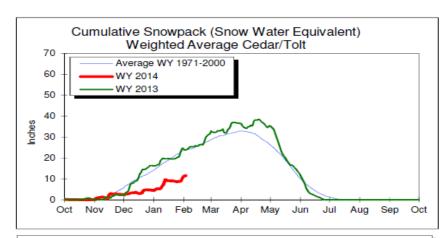
Seattle Public Utilities Water System Synopsis as of February 3, 2014



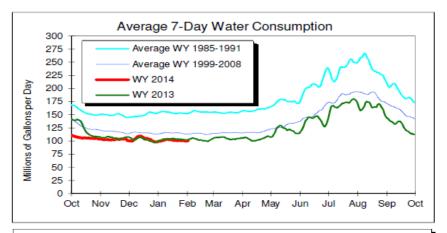
Precipitation was recorded in the Cedar and S.F. Tolt watersheds over the past week.



The combined reservoir storage of Chester Morse Lake, Masonry Pool, Lake Youngs and South Fork Tolt Reservoir is above the long term average for this time of year.

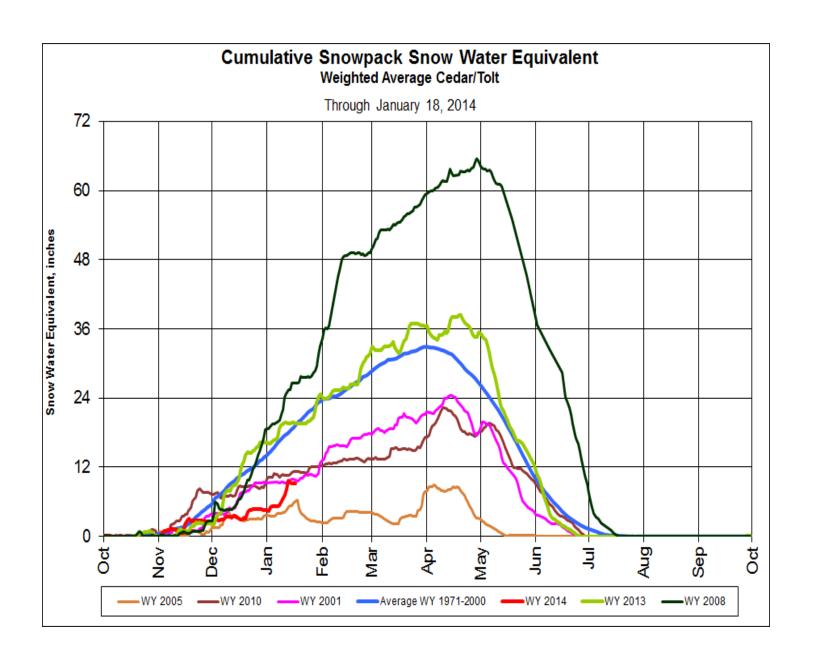


The average snow accumulation across the sites that we monitor is estimated to be about 11.5 inches snow water equivalent which is below the long term average for this time of the year.

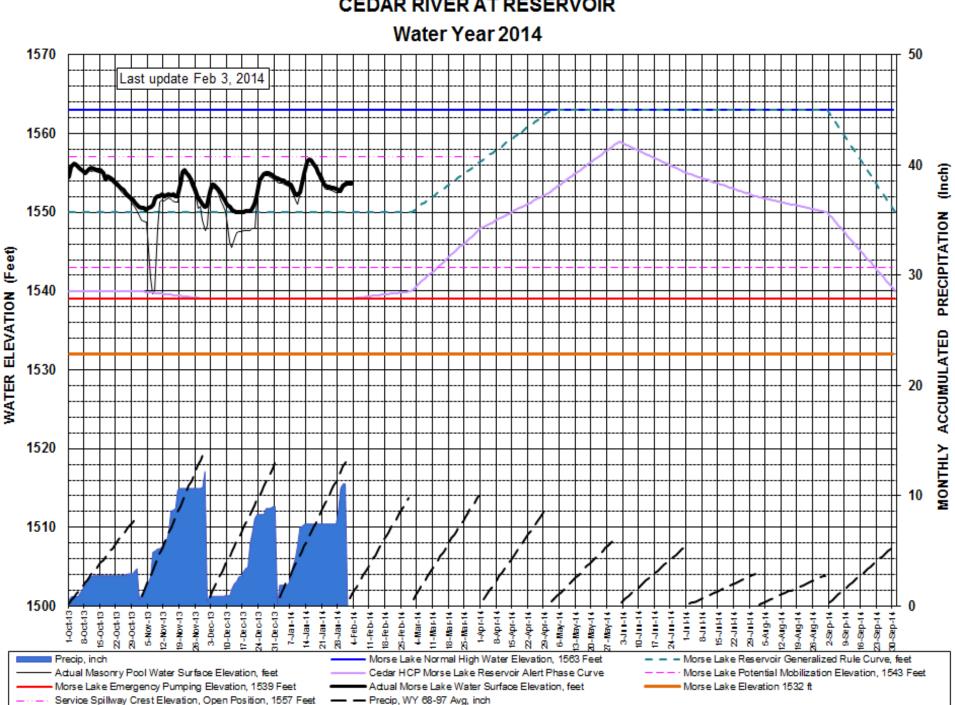


Water use over the past week averaged about 100 million gallons per day (mgd), which is less than the 113 mgd used during the same period over the years 1999-2008.

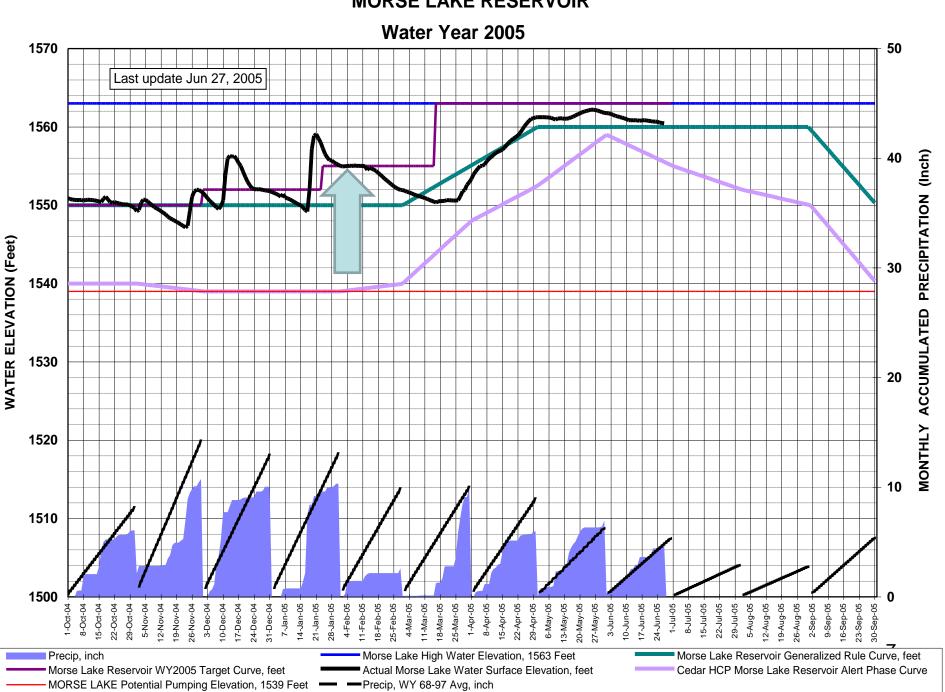
All data is provisional and subject to revision.

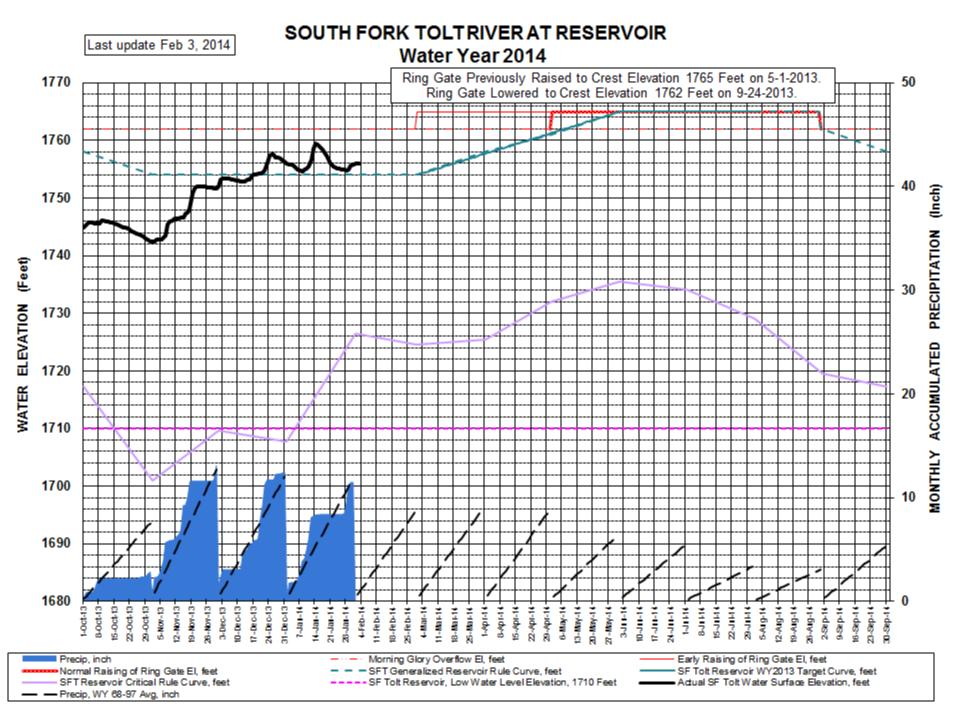


CEDAR RIVER AT RESERVOIR



MORSE LAKE RESERVOIR



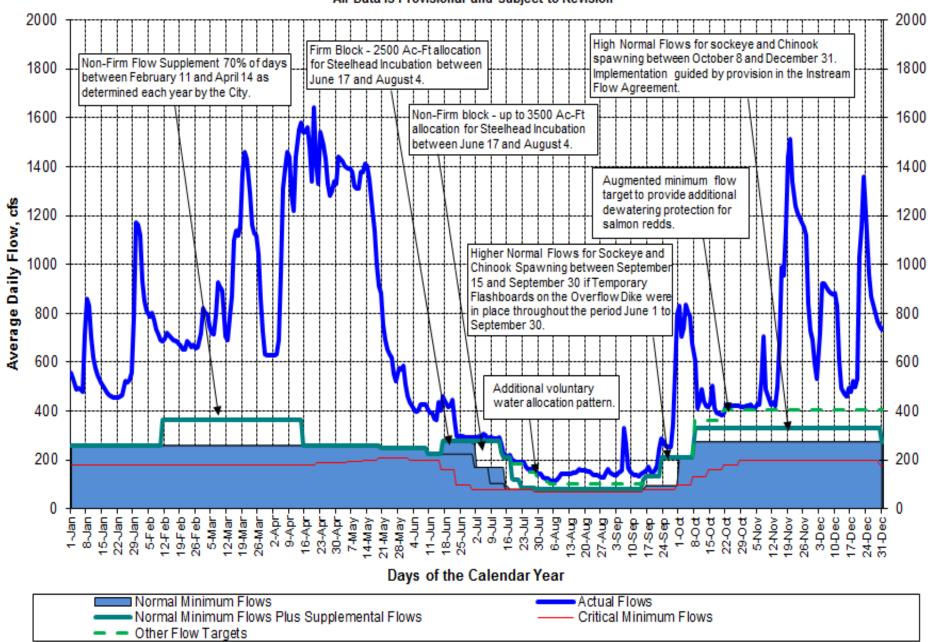


Last Update: 12/31/2013

Calendar Year 2013

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

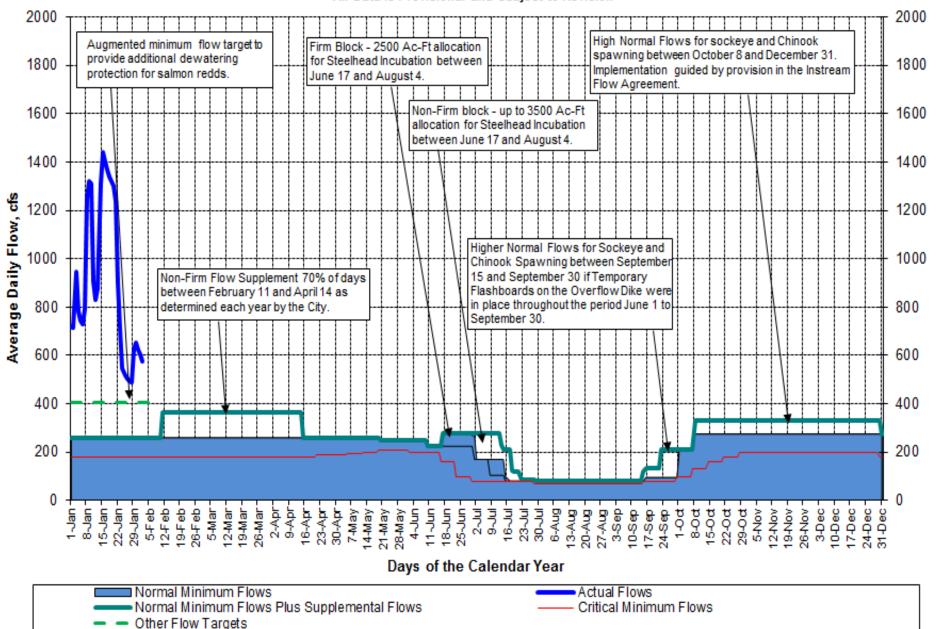
All Data is Provisional and Subject to Revision



Last Update: 2/2/2014 Calendar Year 2014

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

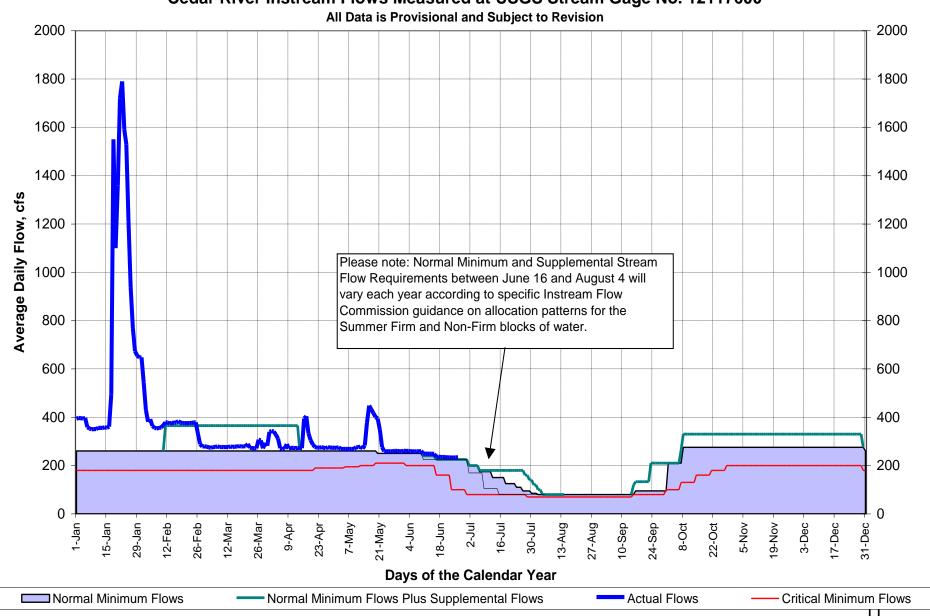
All Data is Provisional and Subject to Revision



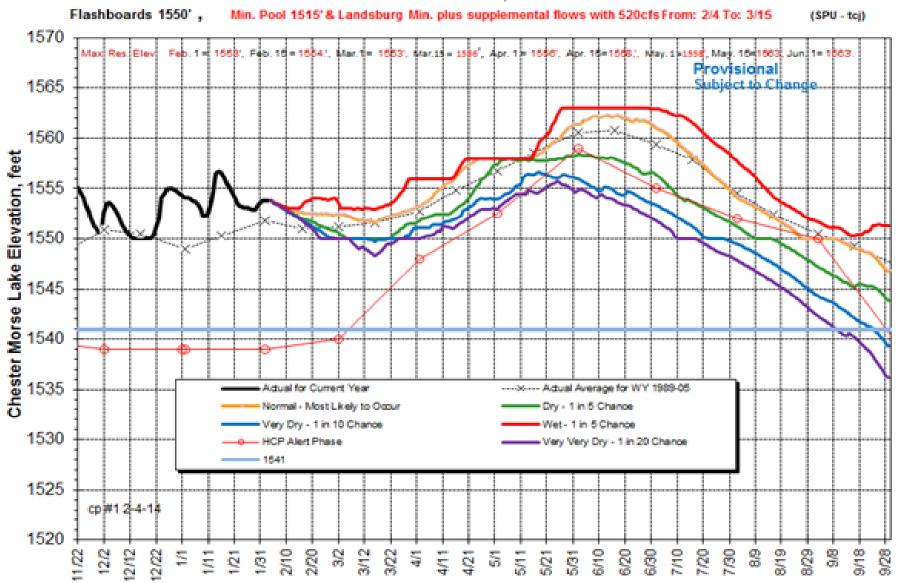
Last Updated: 06/26/2005

Water Year 2005/06

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



SCENARIO: Probabilistic Run Chester Morse Lk Elev Actual Reservoir Elevation on 2/3/2014, Historic Data 2-4 thru 9-30-14



Almost 13 billion gallons are stored between elevations 1539.2 and 1562 feet and more than 3.4 billion gallons between elevations 1532 and 1539.2 feet.