

Water Supply Conditions Update

Water Resources Business Area
Seattle Public Utilities

November 3, 2009

Seattle's Water Supply Status

November 3, 2009

Our overall water supply situation and outlook is good. Reservoir inflows are good.

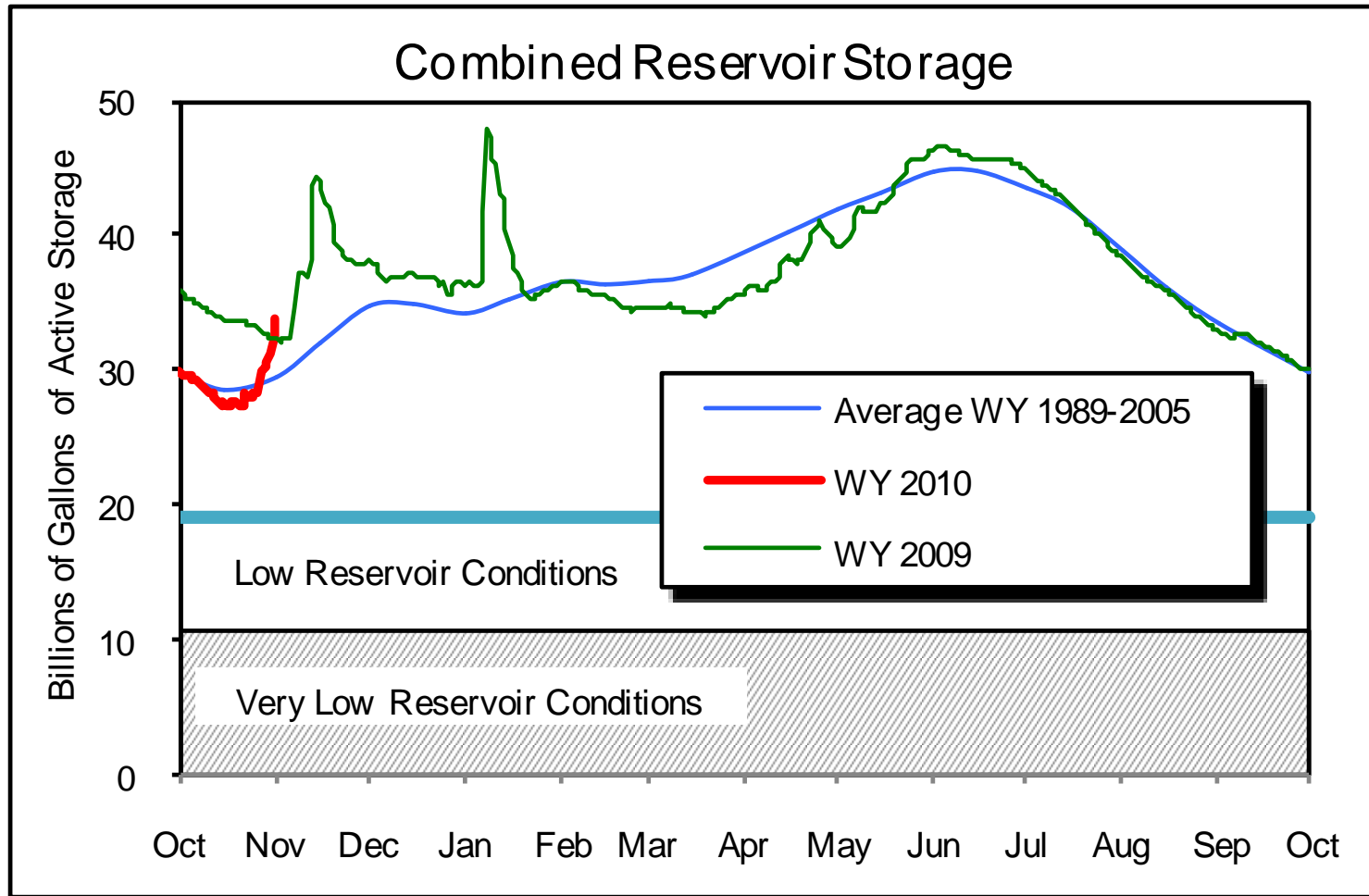
Seattle Water Supply Indicators		
Reservoir Storage	●	
Reservoir Inflows	●	
Snowpack	NA	
Customer Use	●	
Overall	●	
● Good ● Fair ● Poor For more information, visit www.savingwater.org		



Masonry Pool Reservoir taken on November 1, 2009

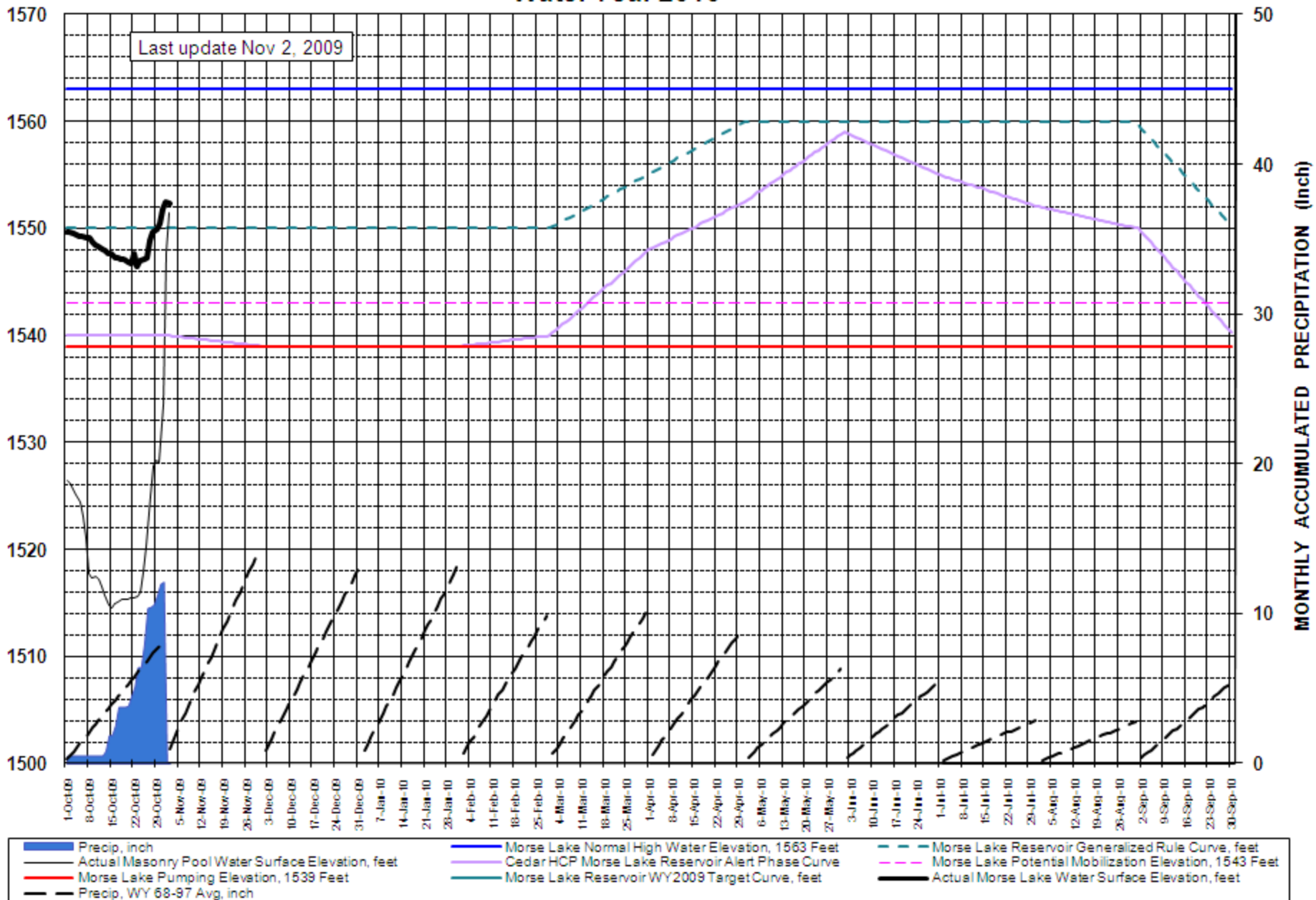
Photo Credit: Kevin Johnson

As of November 1, 2009



CEDAR RIVER AT RESERVOIR

Water Year 2010

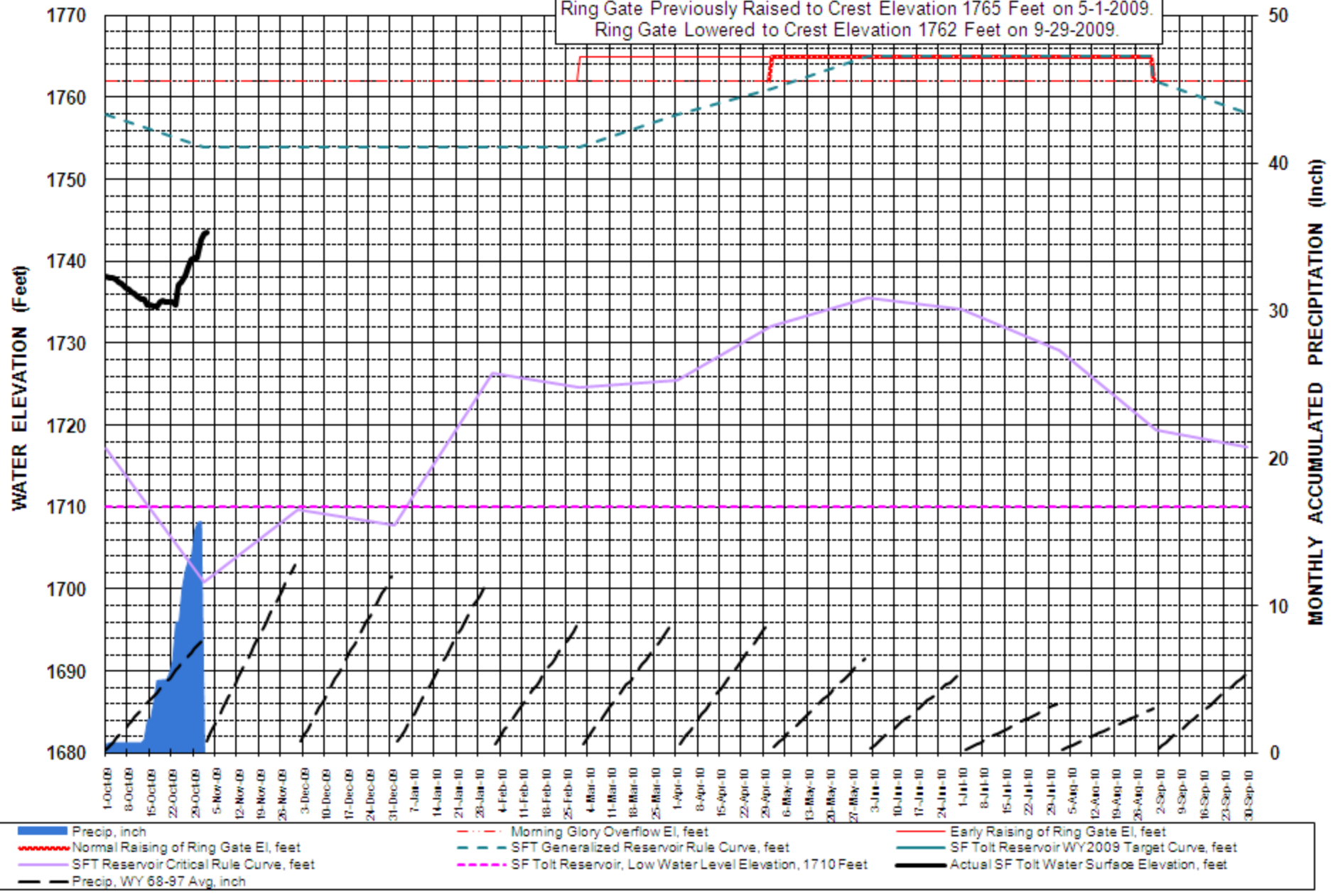


Last update Nov 2, 2009

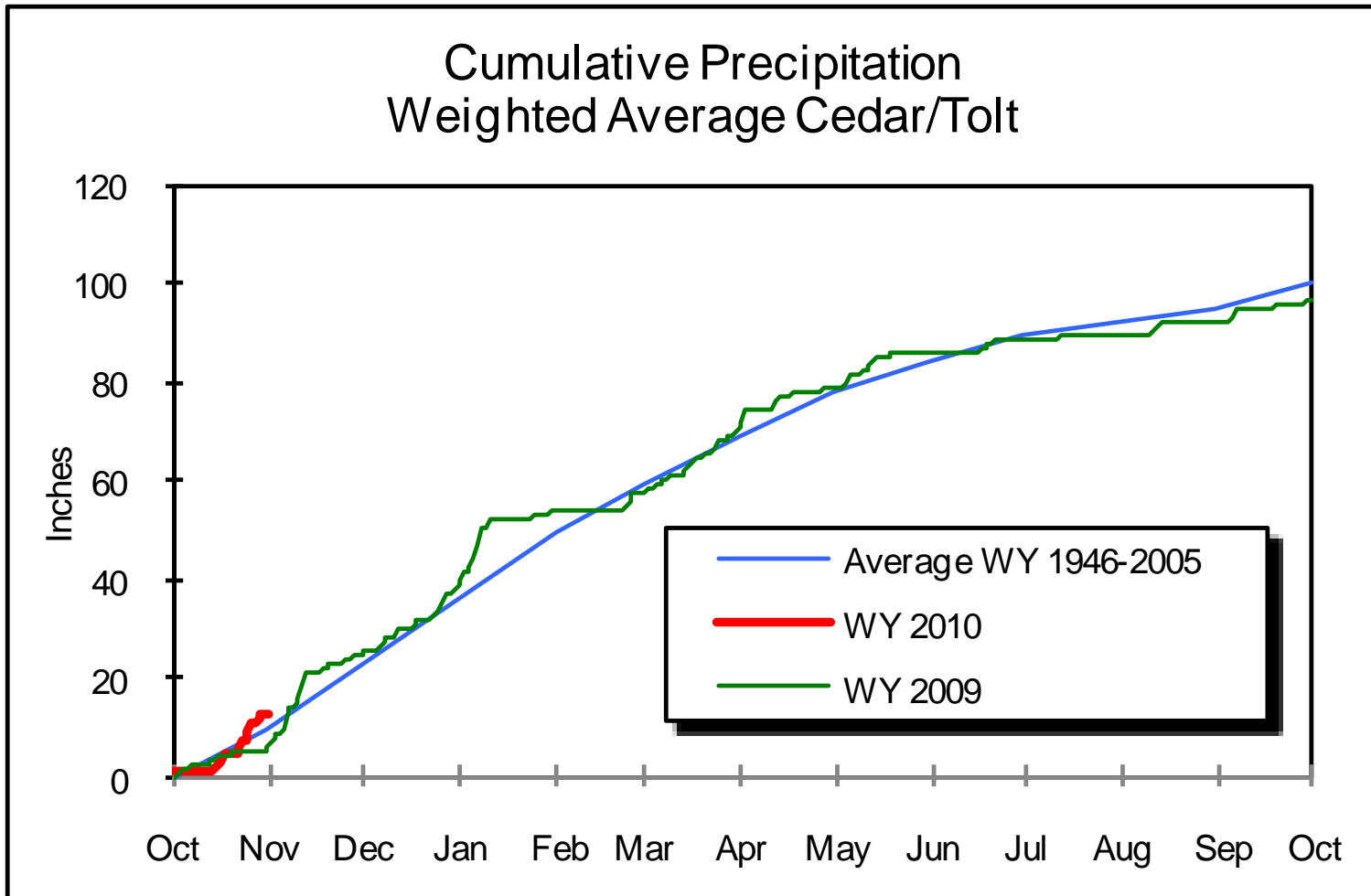
SOUTH FORK TOLT RIVER AT RESERVOIR

Water Year 2010

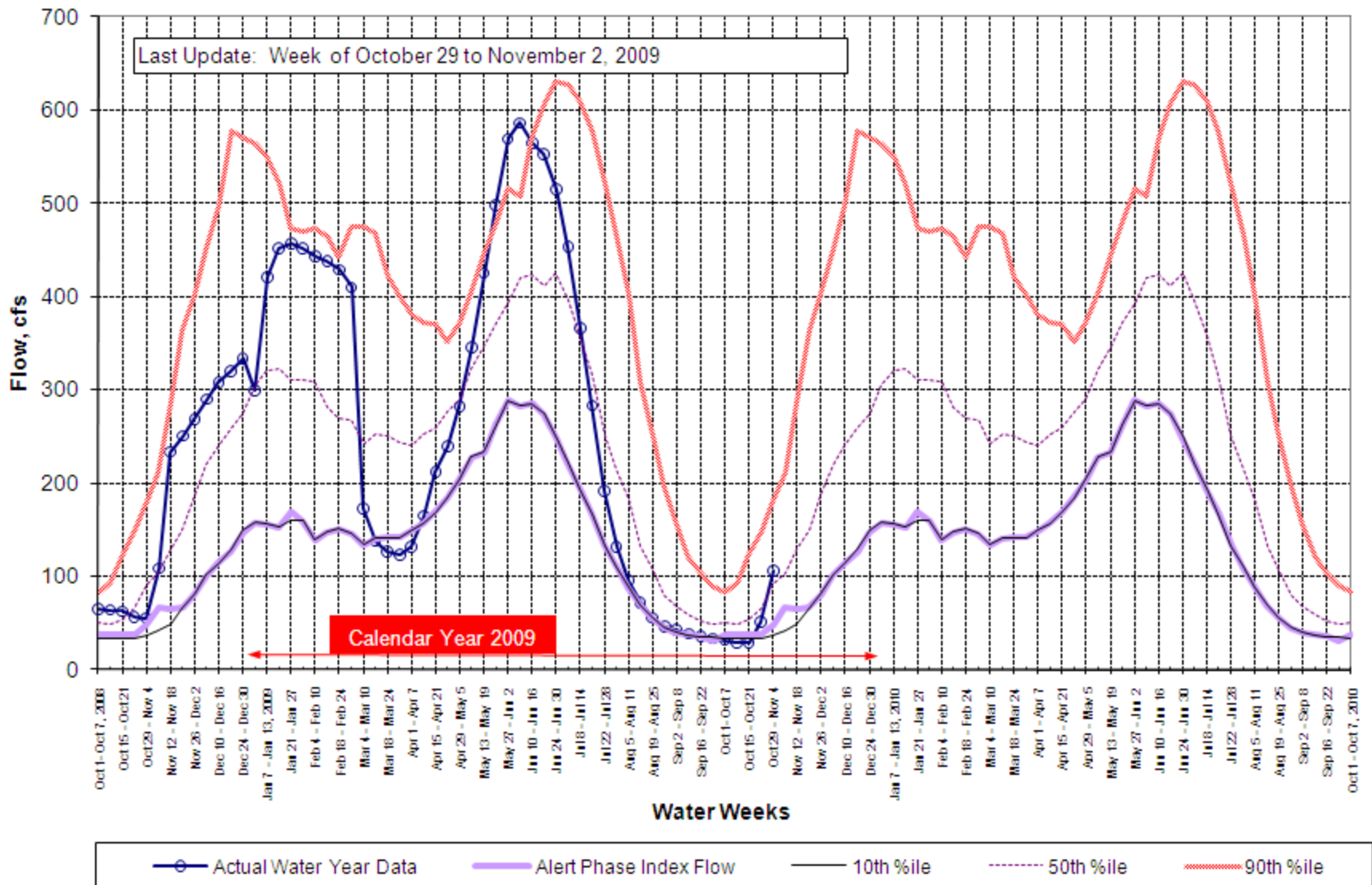
Ring Gate Previously Raised to Crest Elevation 1765 Feet on 5-1-2009.
Ring Gate Lowered to Crest Elevation 1762 Feet on 9-29-2009.



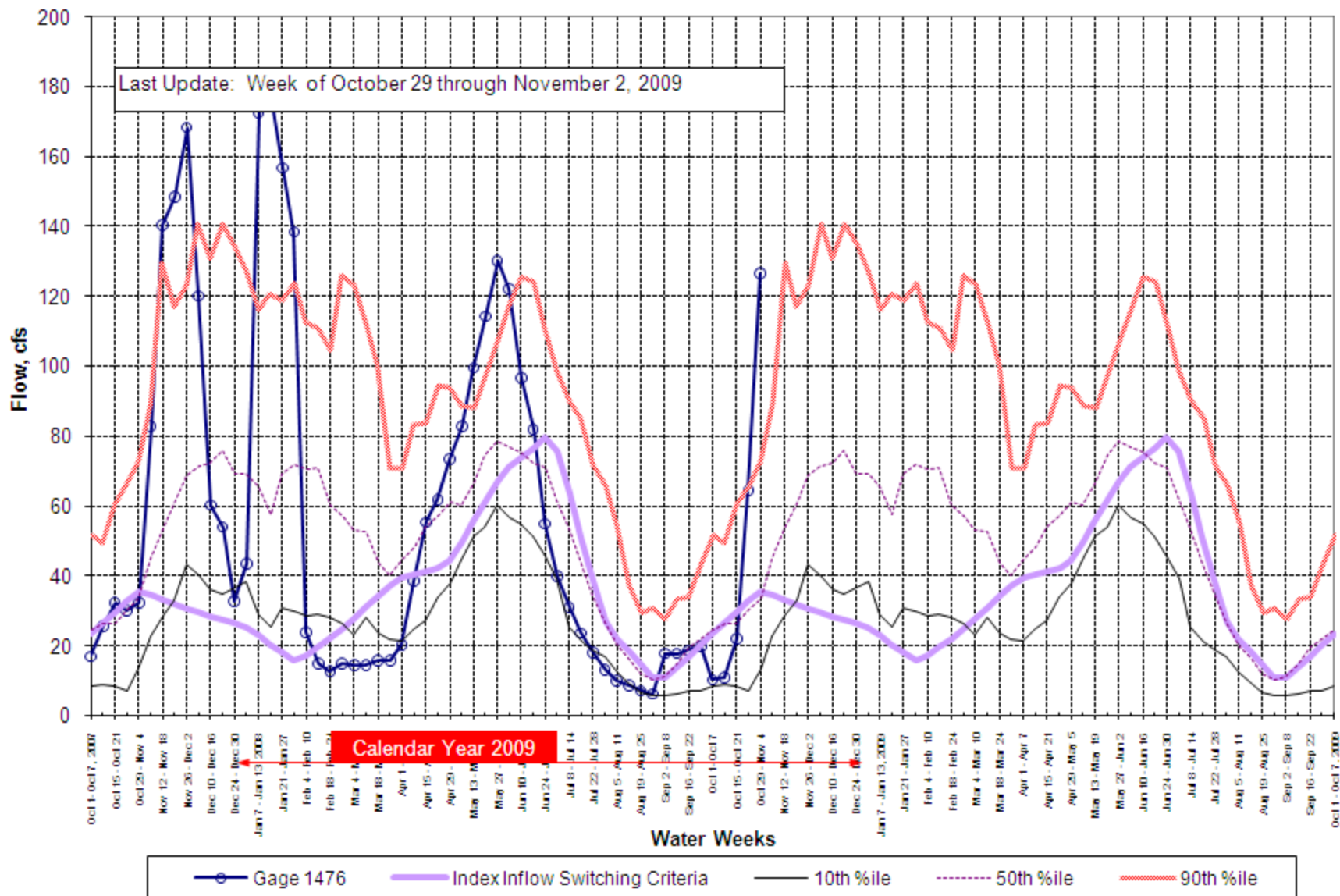
As of November 1, 2009



WY 2009 to 2010 USGS Gage 12115000, Cedar River Near Cedar Falls, 8-Week Moving Average Flows
 Percentiles Calculated from WY 1929-1993 Historical Record



WY 2009 to 2010 USGS Gage 12147600, South Fork Tolt River Near Index, 4-Week Moving Average Flows
 Percentiles Calculated from WY 1960-1993 Historical Record

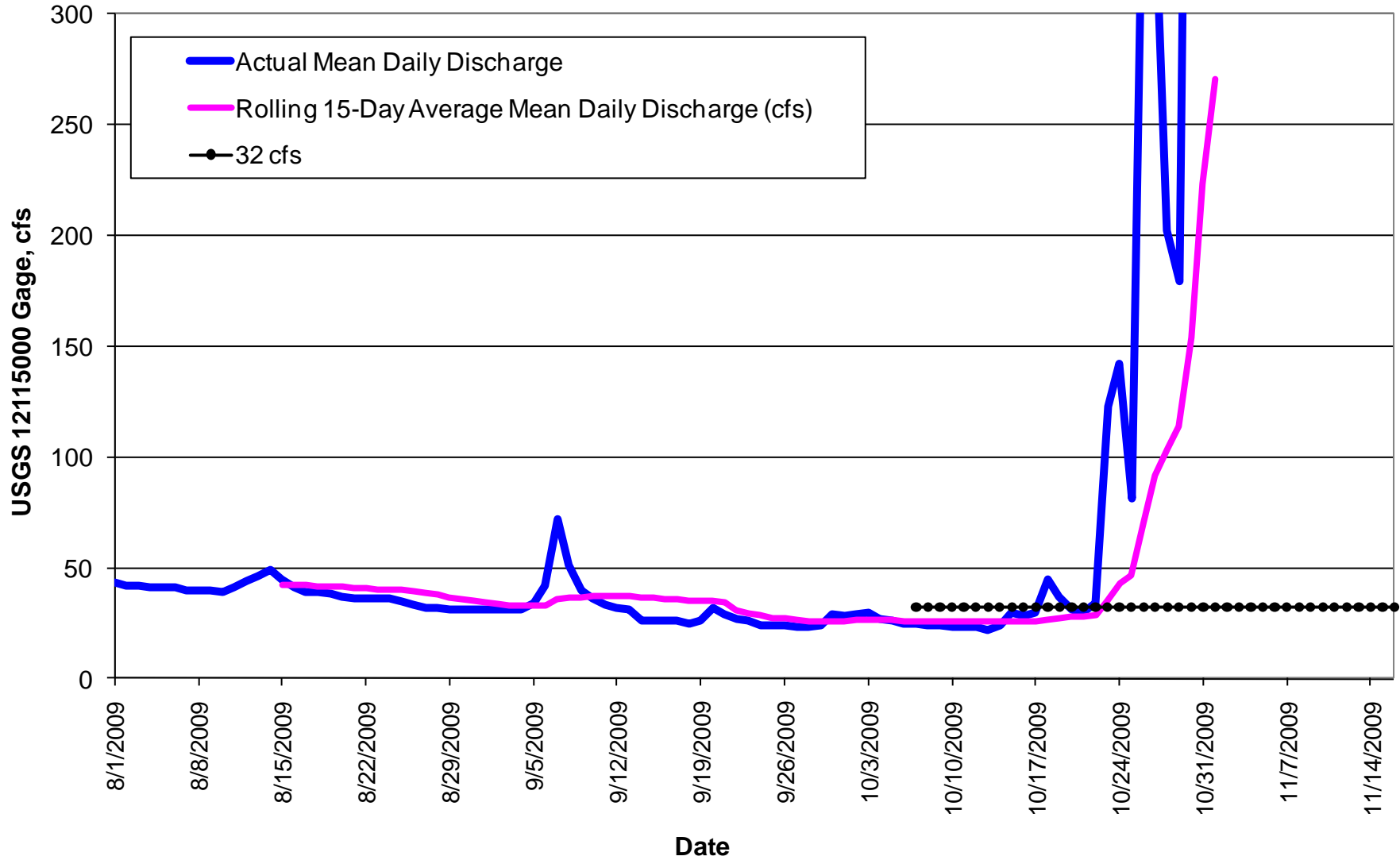


In order to implement the high-normal flow regime, the following minimum criteria must be met:

- 1) The elevation of Morse Lake is, or is reasonably forecasted to be by October 8th, greater than elevation 1541.5 feet; and
- 2) The average inflow to Morse Lake for the antecedent 30-day period is greater than 31 cfs; and
- 3) The average inflow to Morse Lake for the antecedent 15-day period is greater than 32 cfs.

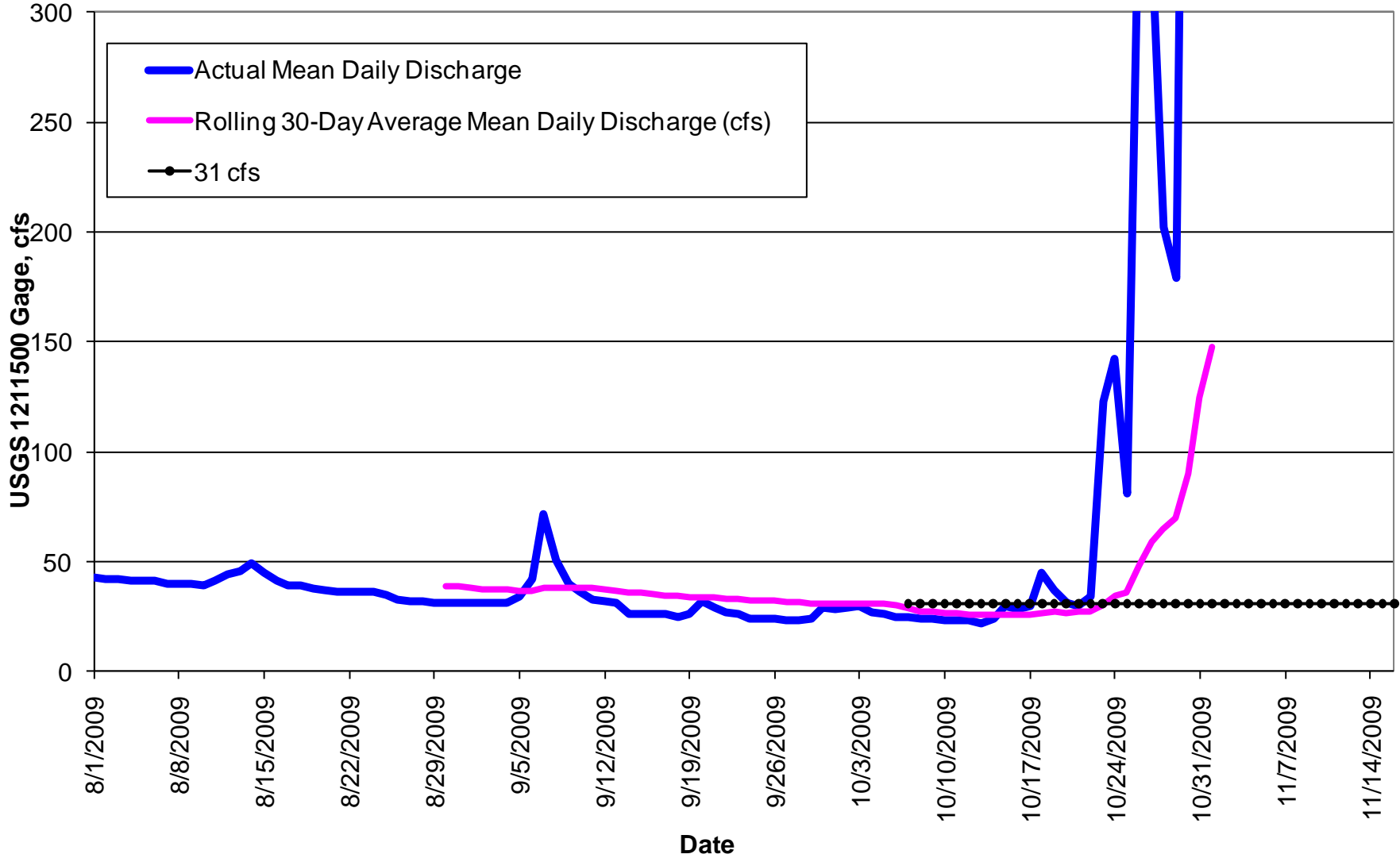
Updated: 11/1/2009

Mean Daily Inflow 15 Day Rolling Average High Normal/Low Normal Switching Criteria



Updated: 11/1/2009

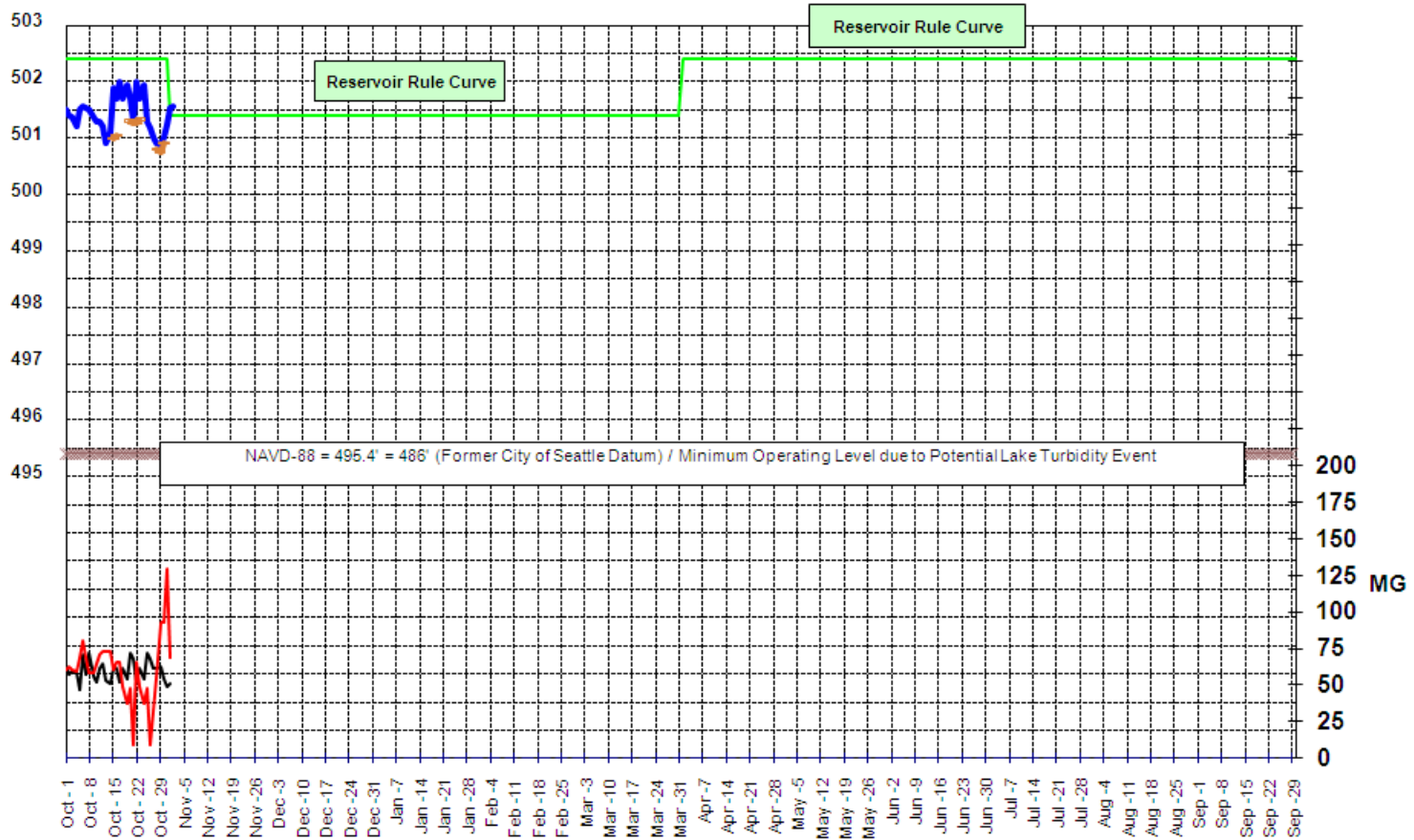
Mean Daily Inflow 30 Day Rolling Average High Normal/Low Normal Switching Criteria



As of November 1, 2009

Feet

Lake Youngs Water Level During WY2010 and Daily Volumes (MG) In & Out



INFLOW - Landsburg Tunnel Meter

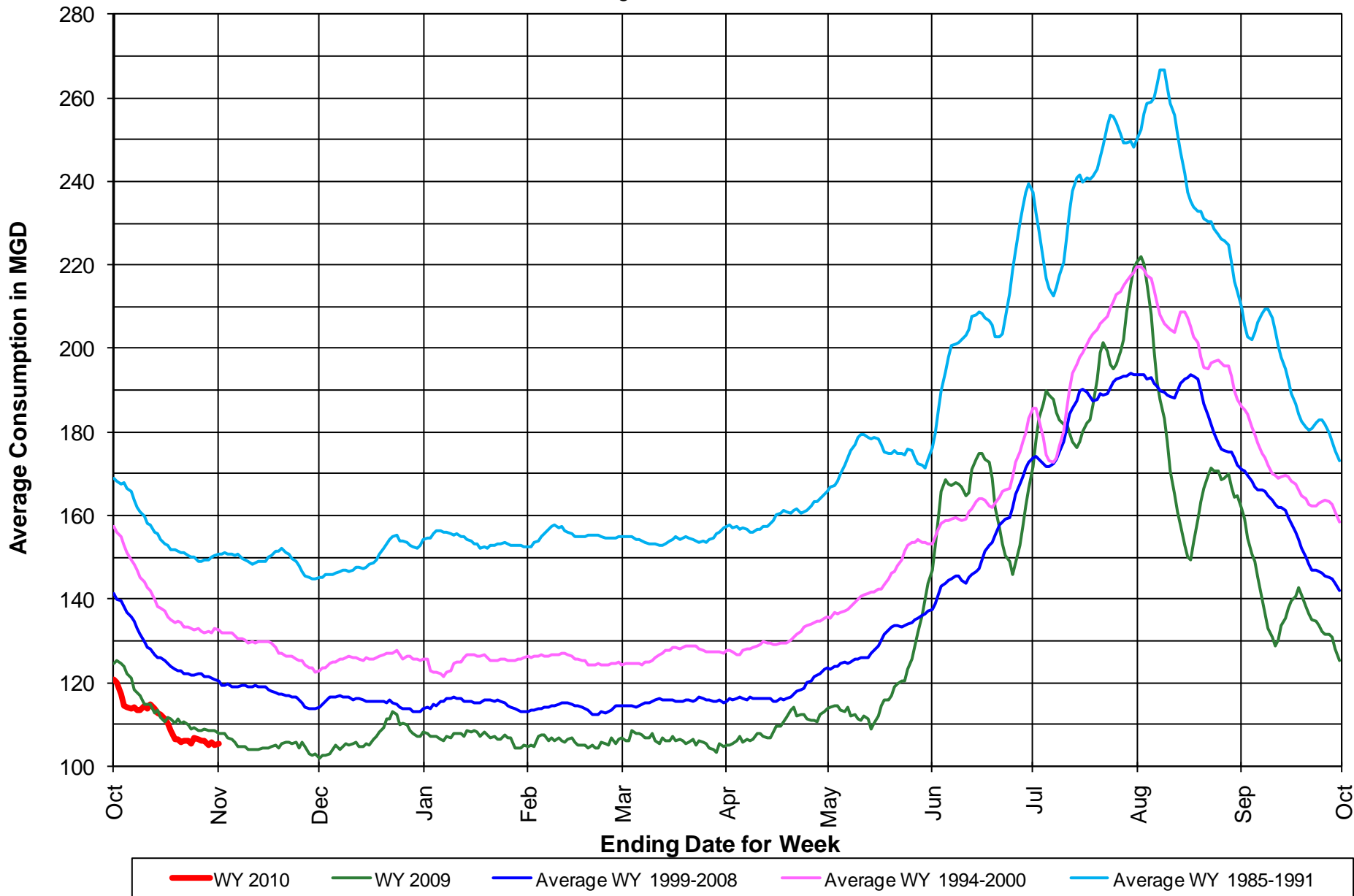
OUTFLOW - Cedar Supply

Lake Youngs Water Elevation Dam Safety Sensor (RPK 400340)

Lake Youngs Water Elevation at Sandy Gray's Stilling Well (Visual Reading)

24-hr Consumption, 7-Day Moving Average

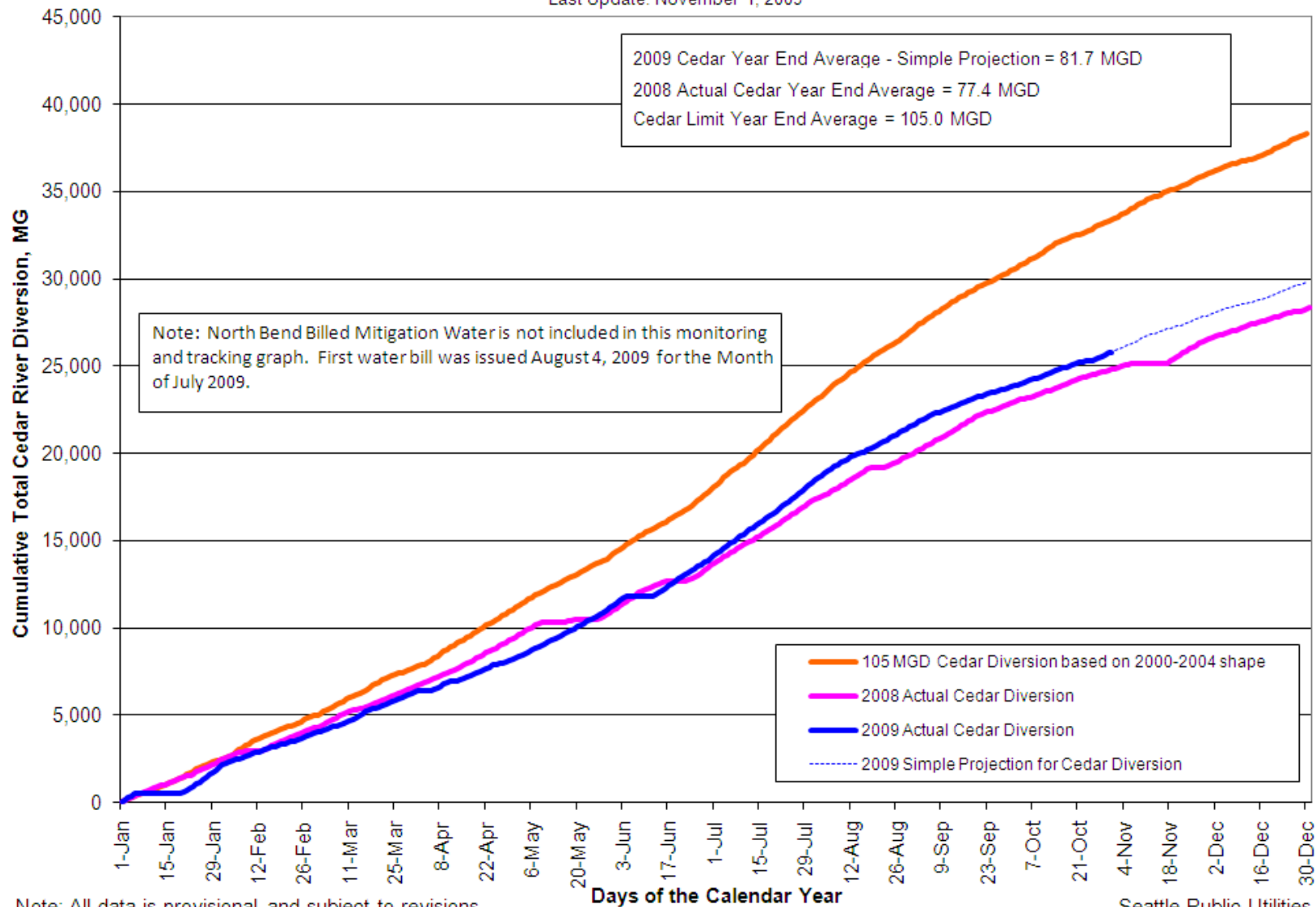
Through November 1, 2009



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 2009 Monitoring and Tracking Graph

Last Update: November 1, 2009



2009 Cedar Year End Average - Simple Projection = 81.7 MGD
 2008 Actual Cedar Year End Average = 77.4 MGD
 Cedar Limit Year End Average = 105.0 MGD

Note: North Bend Billed Mitigation Water is not included in this monitoring and tracking graph. First water bill was issued August 4, 2009 for the Month of July 2009.

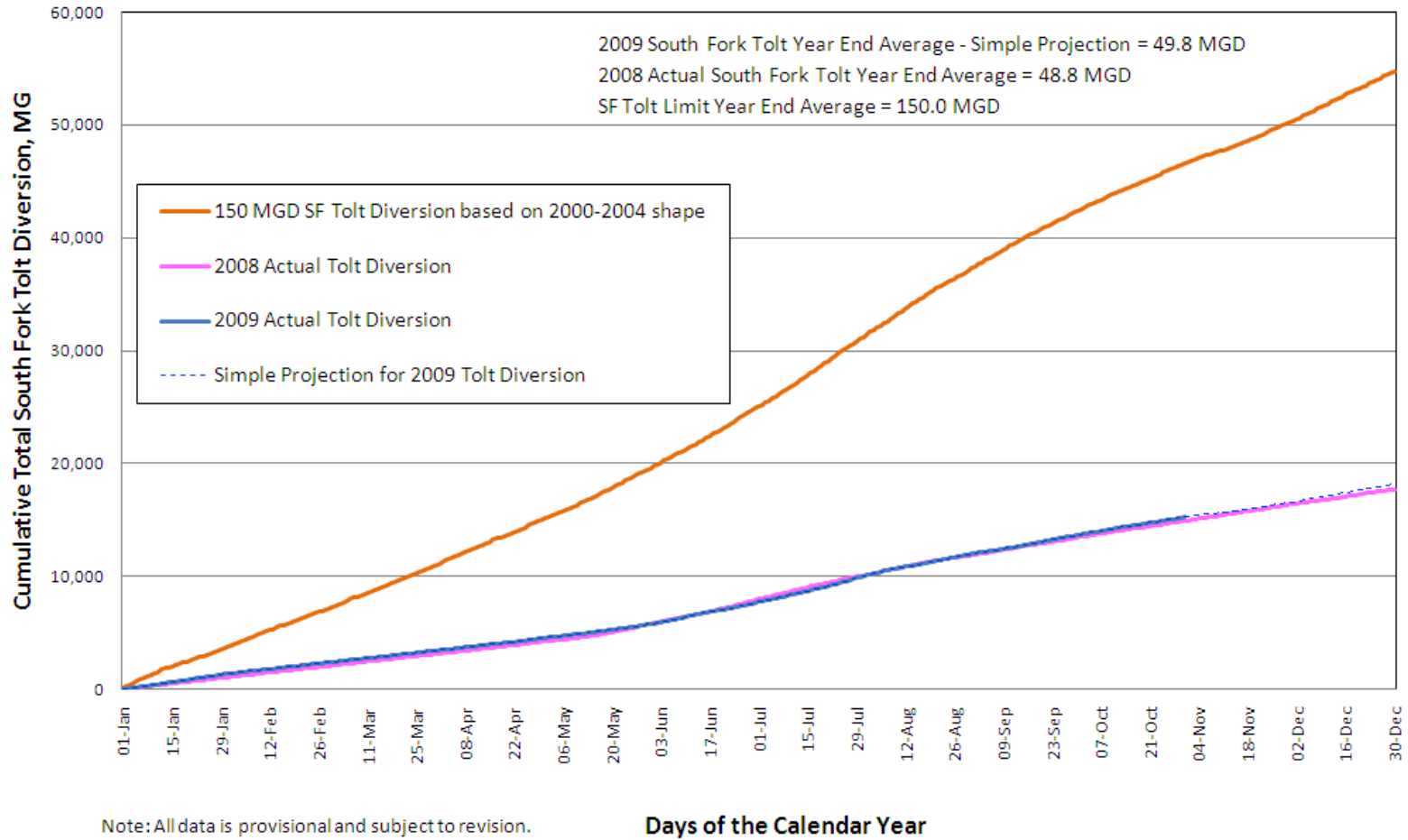
105 MGD Cedar Diversion based on 2000-2004 shape
 2008 Actual Cedar Diversion
 2009 Actual Cedar Diversion
 2009 Simple Projection for Cedar Diversion

Note: All data is provisional and subject to revisions.

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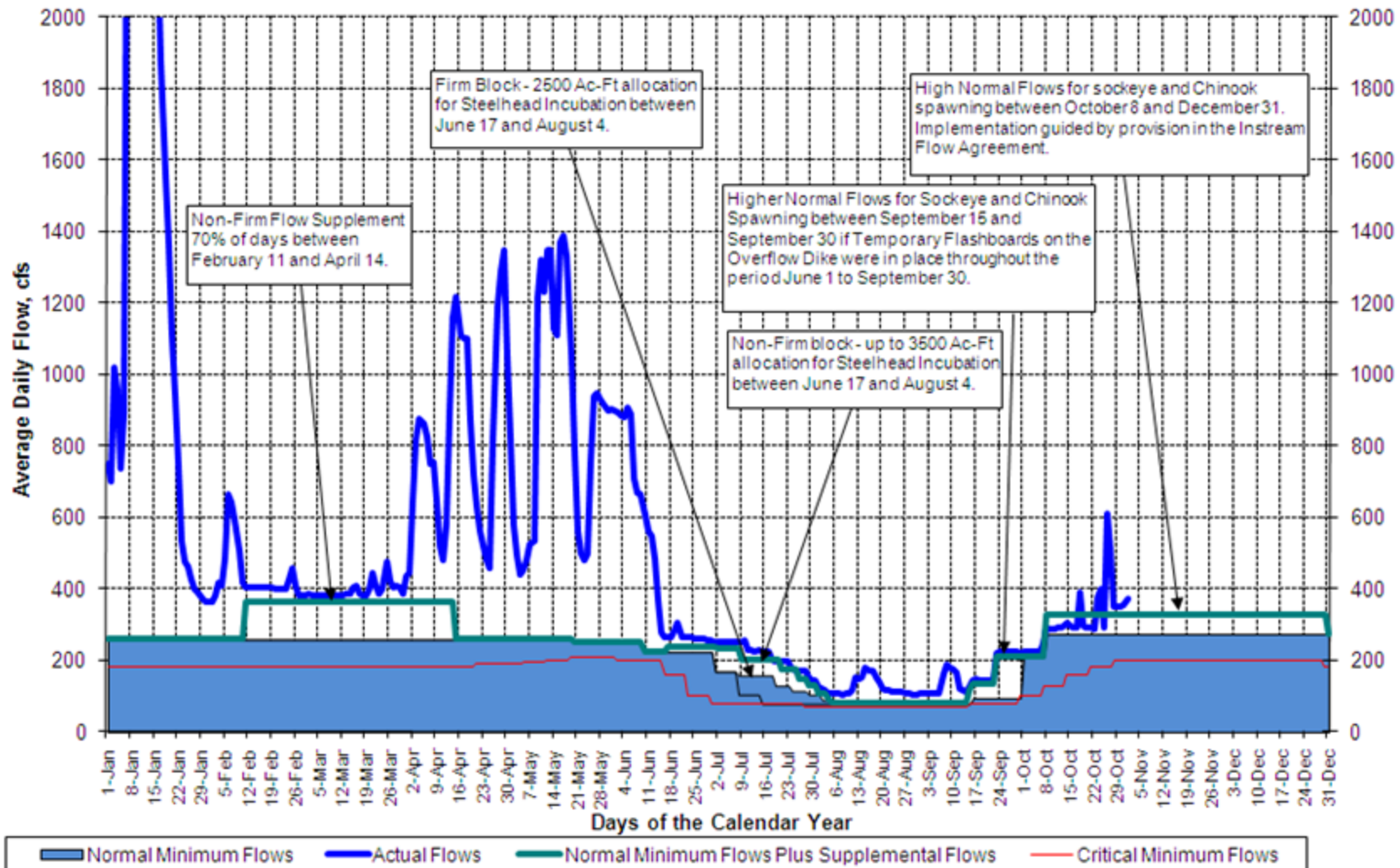
Cumulative Total South Fork Tolt River Diversion Calendar Year 2009 Monitoring and Tracking Graph

Last Update: November 1, 2009



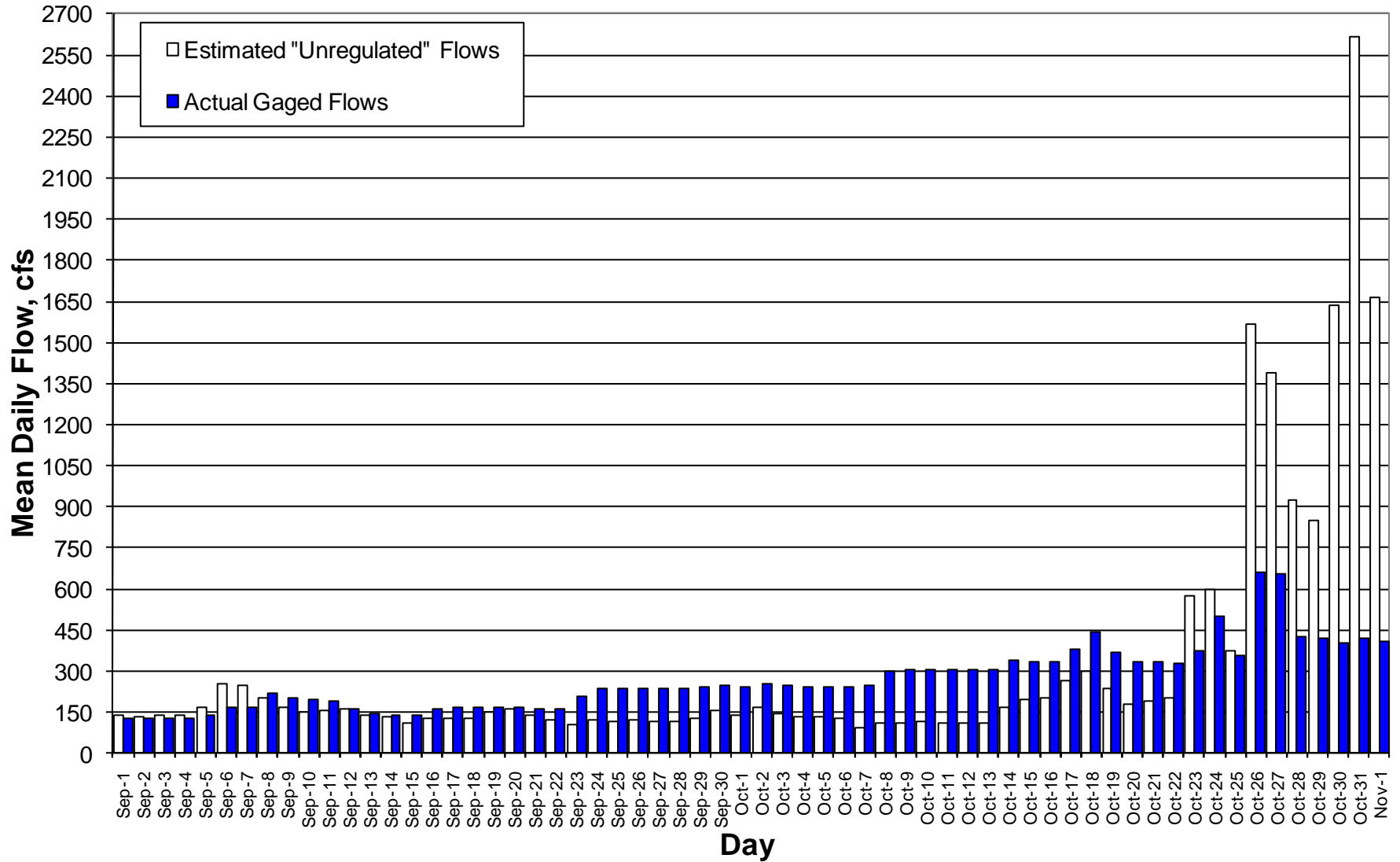
Last Update: 11/01/09

Calendar Year 2009 Cedar River Instream Flows Measured at USGS Stream Gage No. 12117600 All Data is Provisional and Subject to Revision



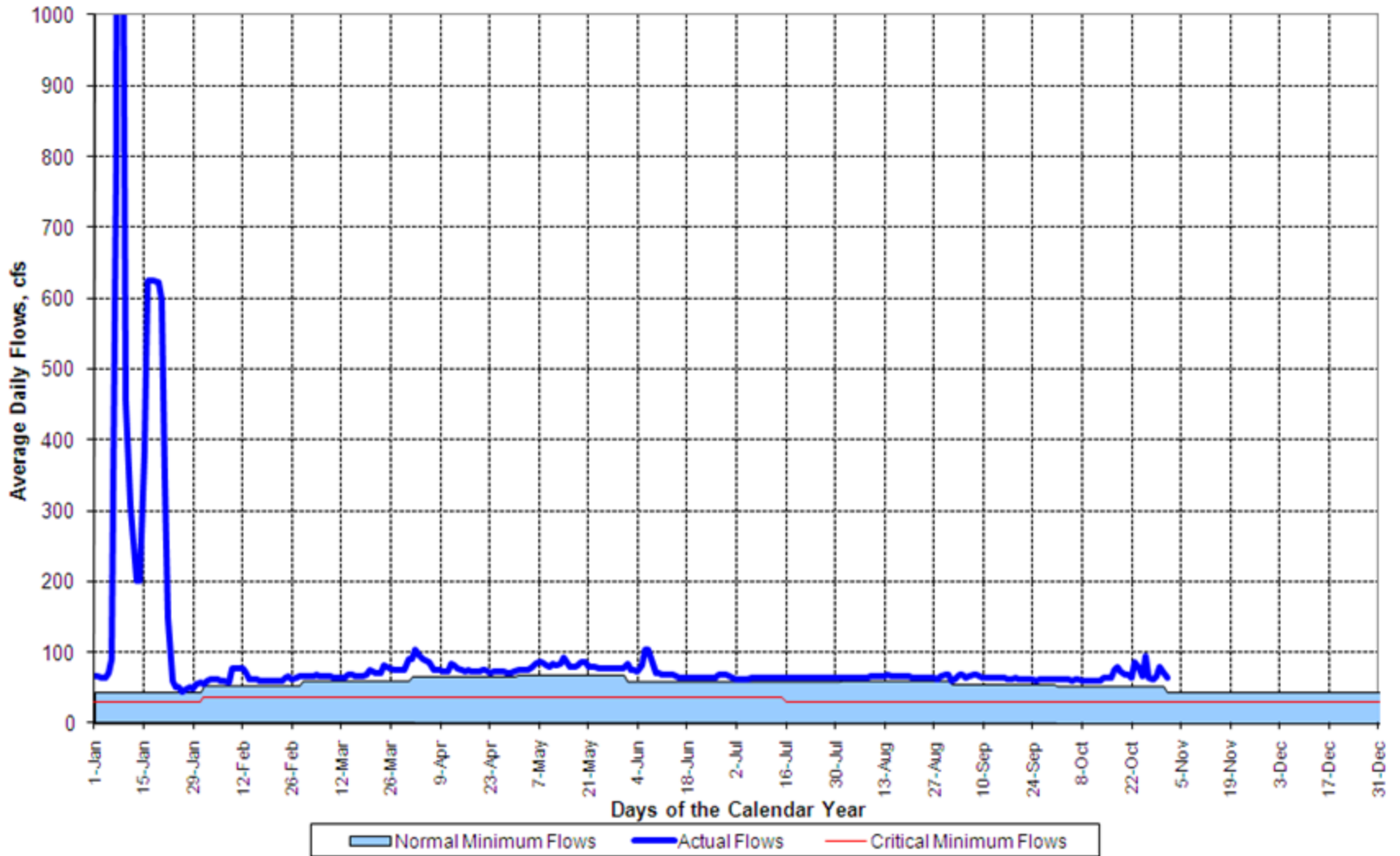
Cedar River Flow at Renton

September 1, 2009 to November 1, 2009
All Data is Provisional and Subject to Change



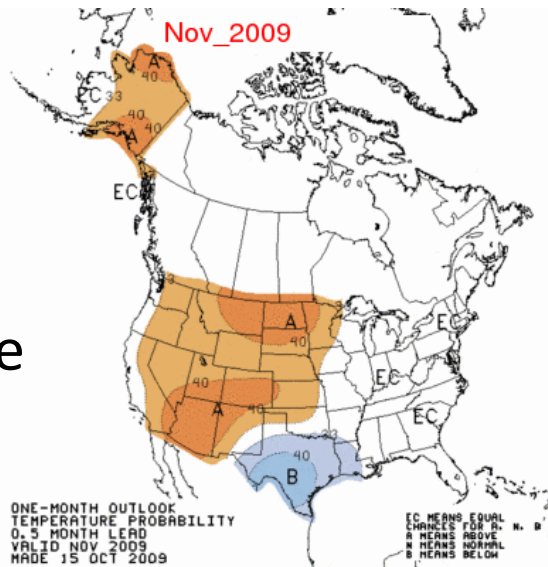
Last Updated: 11/1/2009

Calendar Year 2009
South Fork Tolt River Instream Flows Measured at USGS Stream Gage No. 12148000
All Data is Provisional and Subject to Revision

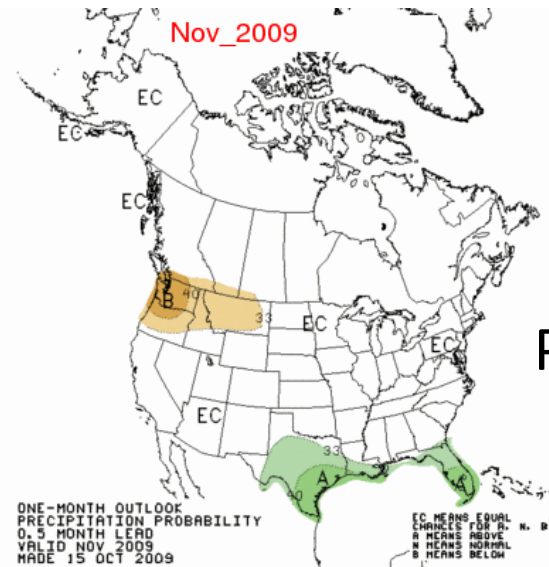


NOAA Climate Prediction Center Outlook

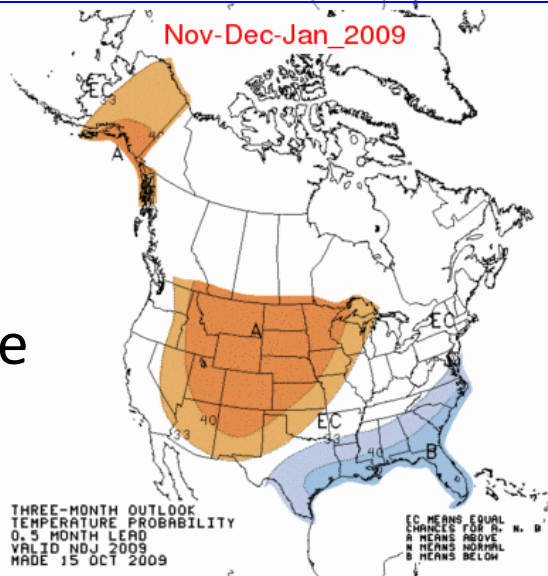
Temperature



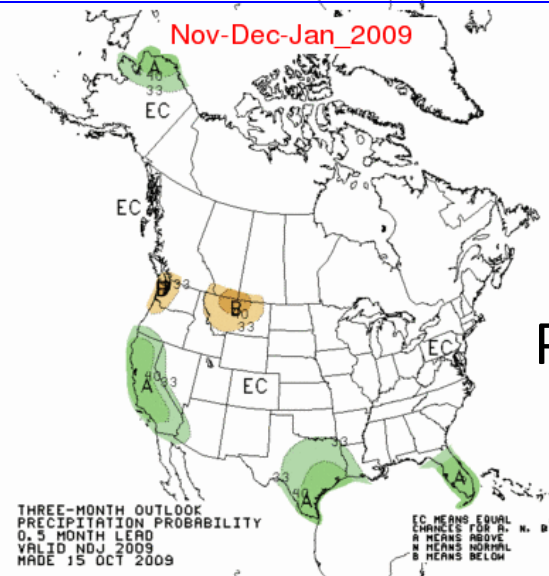
Precipitation



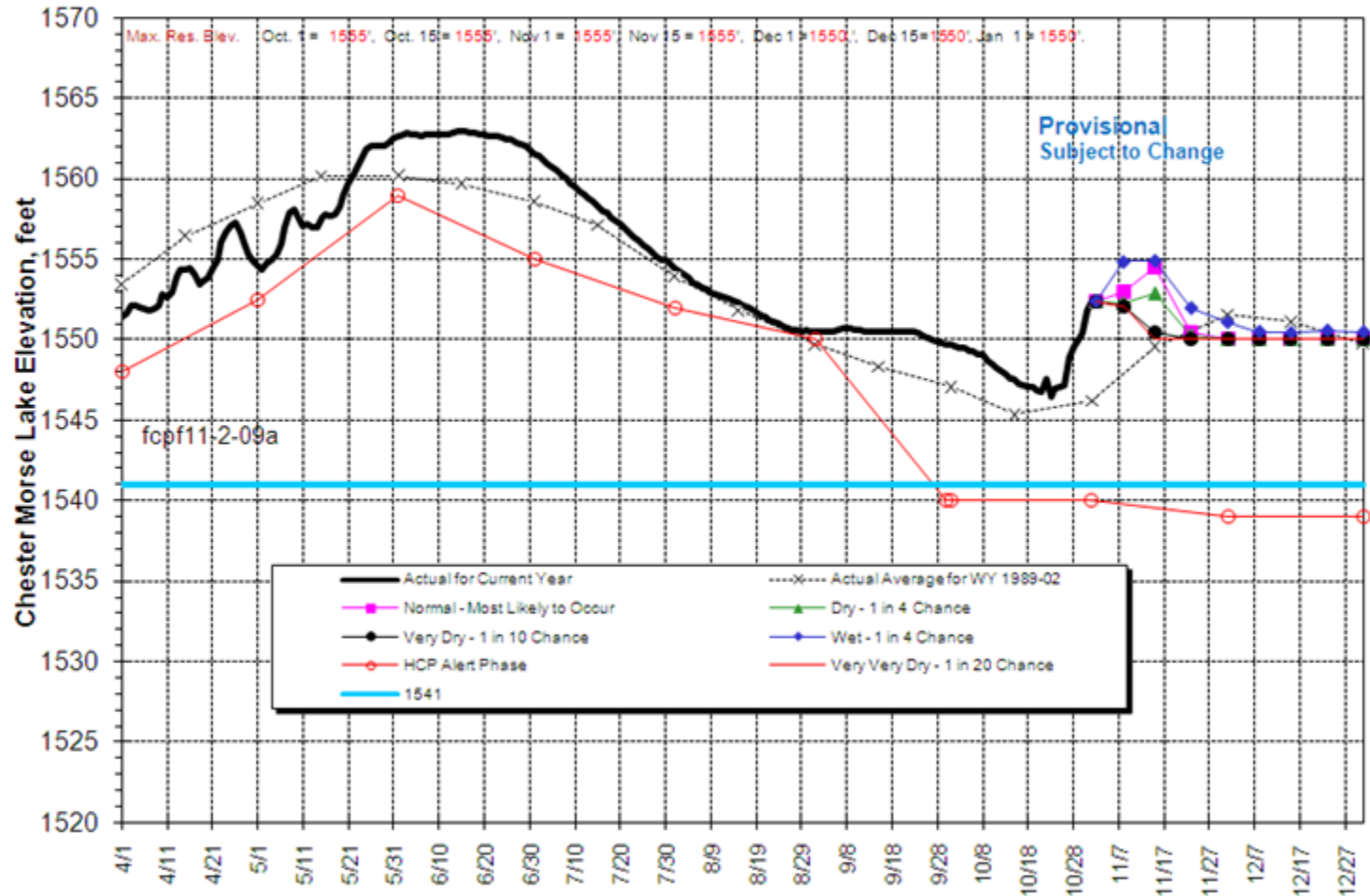
Temperature



Precipitation

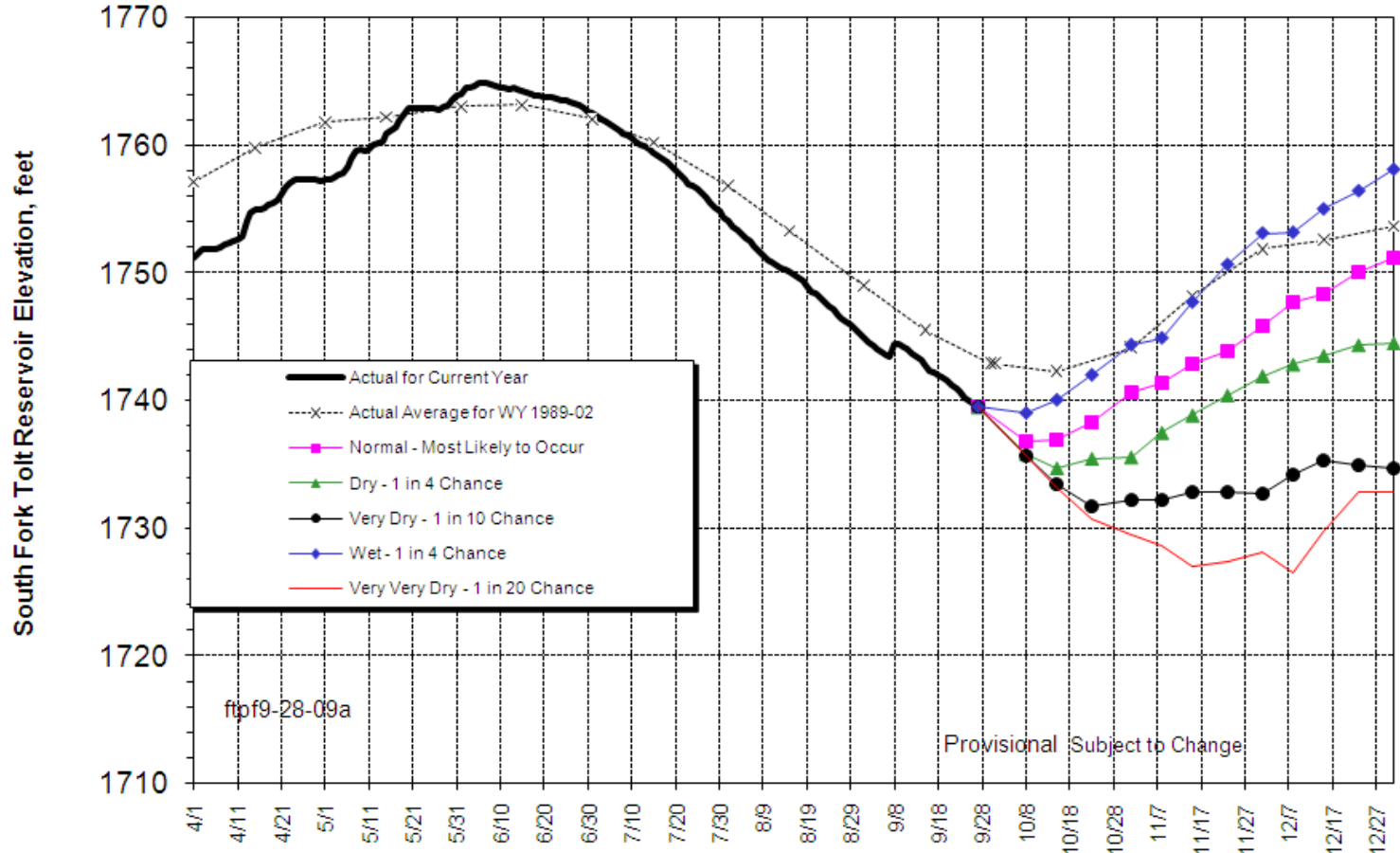


SCENARIO : Forecast of Chester Morse Lk Elev
Actual Reservoir Elevation on 11/2/2009, Forecast thru 11-4, Hist. Data 11-5 thru 12-31
Flashboards 1550' , Min. Pool 1515' & High-Normal



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.

SCENARIO : Forecast of South Fork Tolt Reservoir Elevations
Actual Reservoir Elevation on 9/27/2009, Forecast thru 10-01, Hist. Data 10-02 thru 12-31



About 14 billion gallons are stored between elevations 1710 and 1765 feet, and an additional 4 billion gallons between elevations 1660 and 1710 feet.

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