



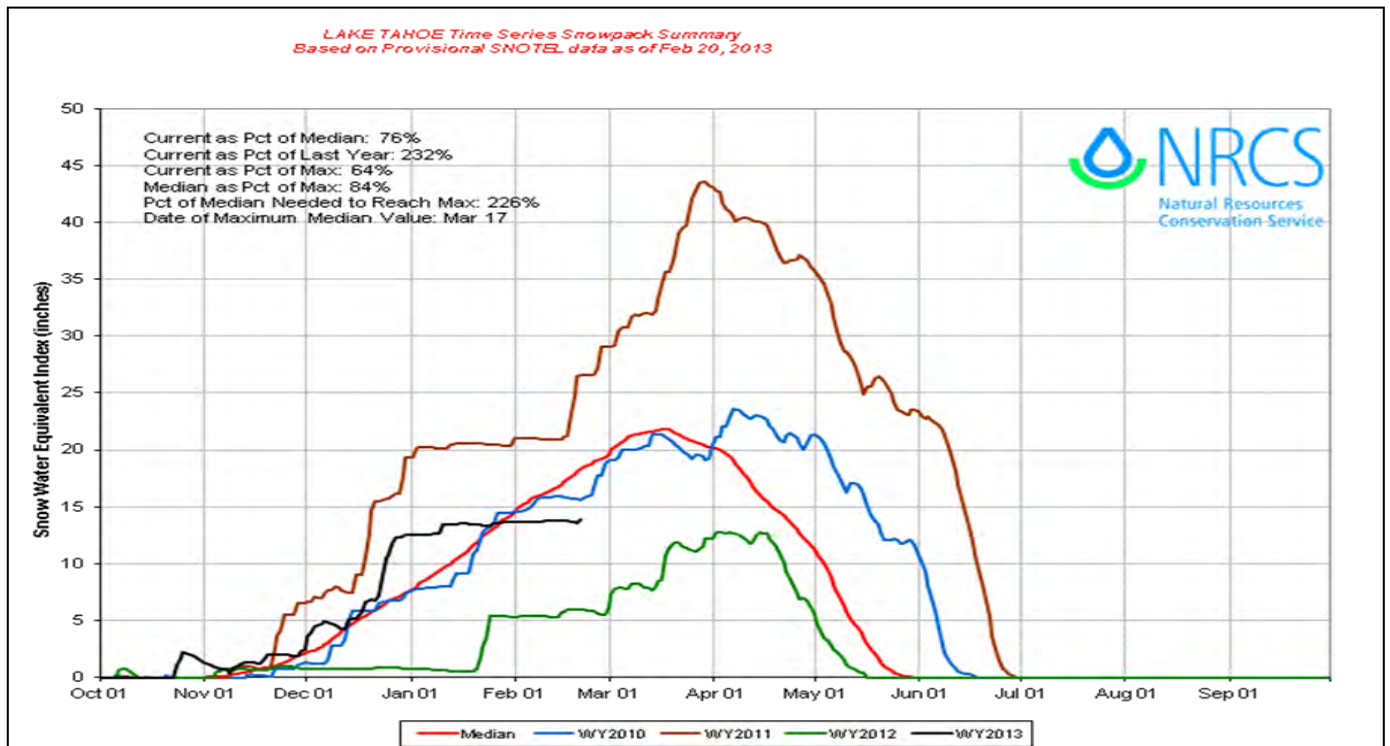
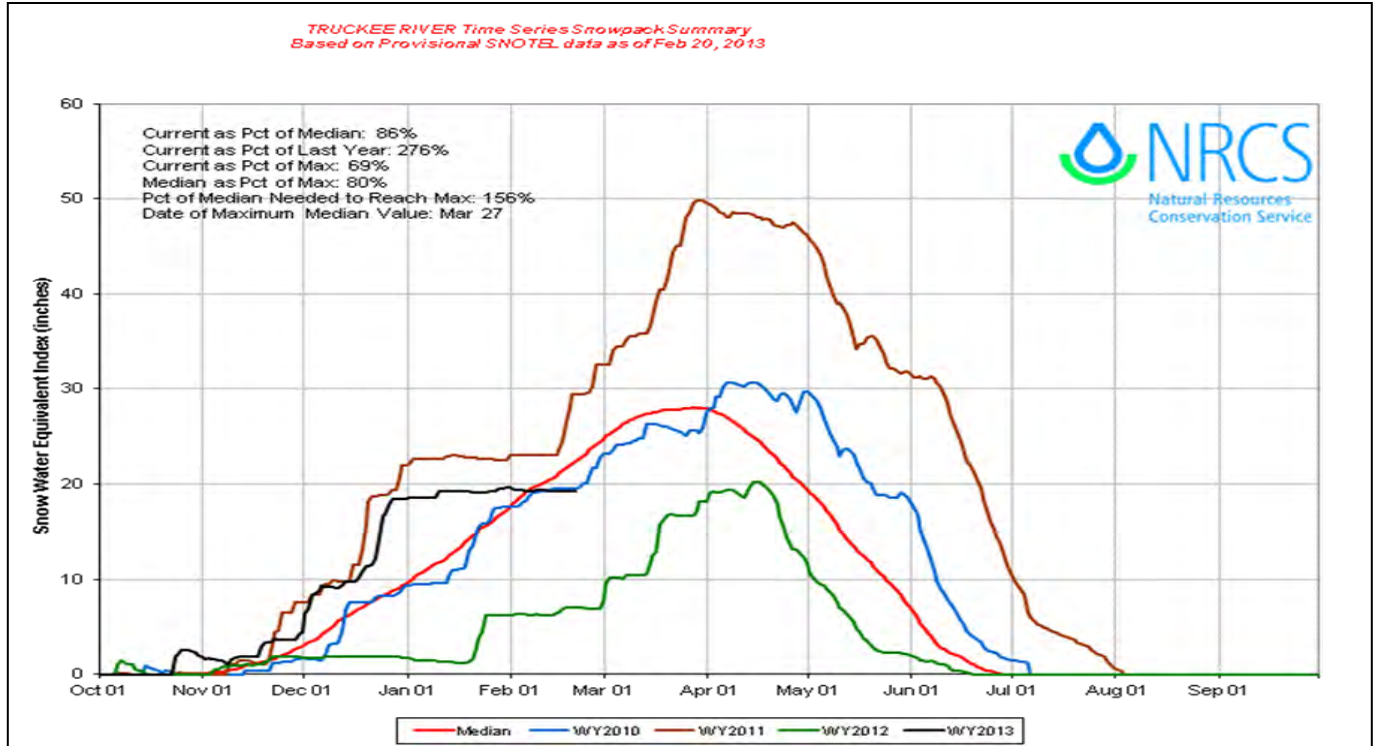
STAFF REPORT

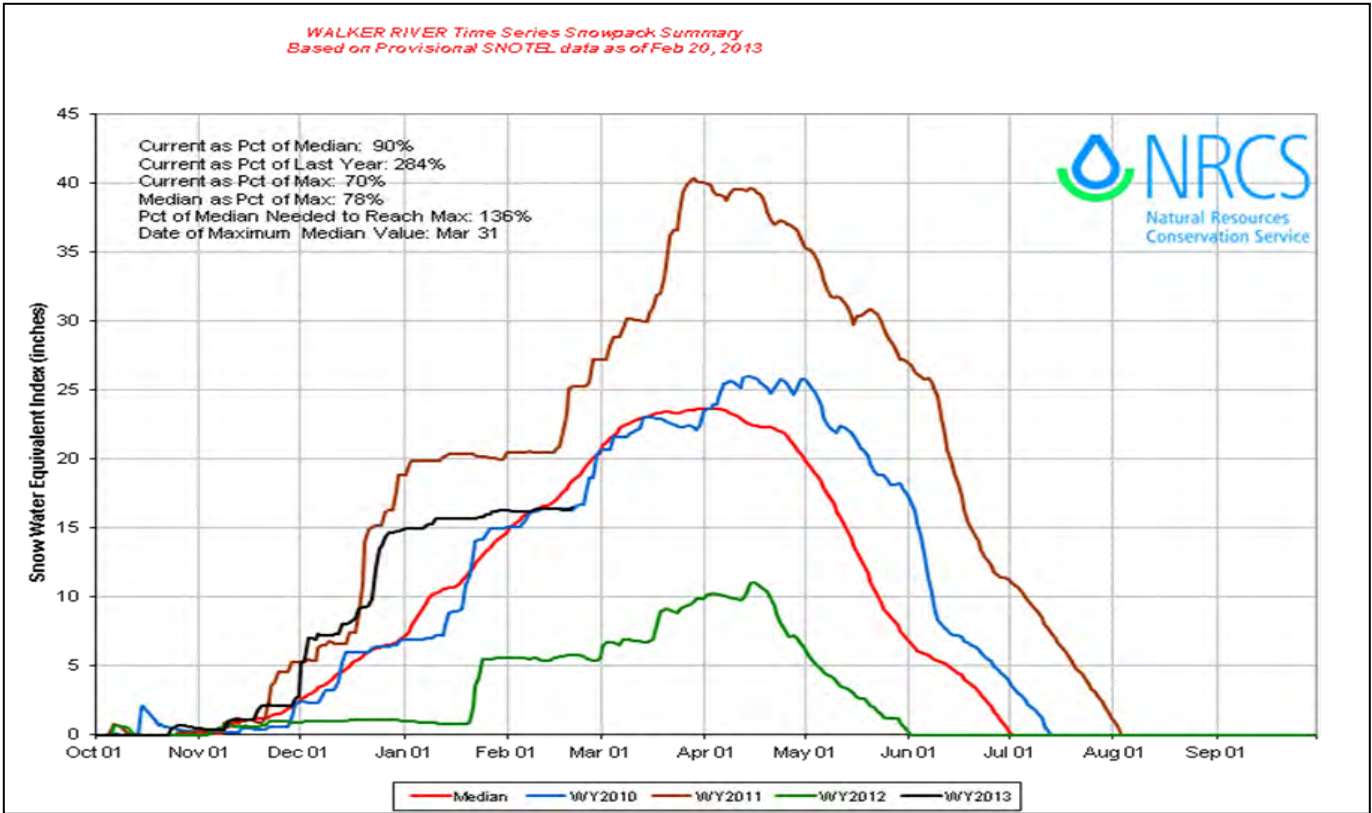
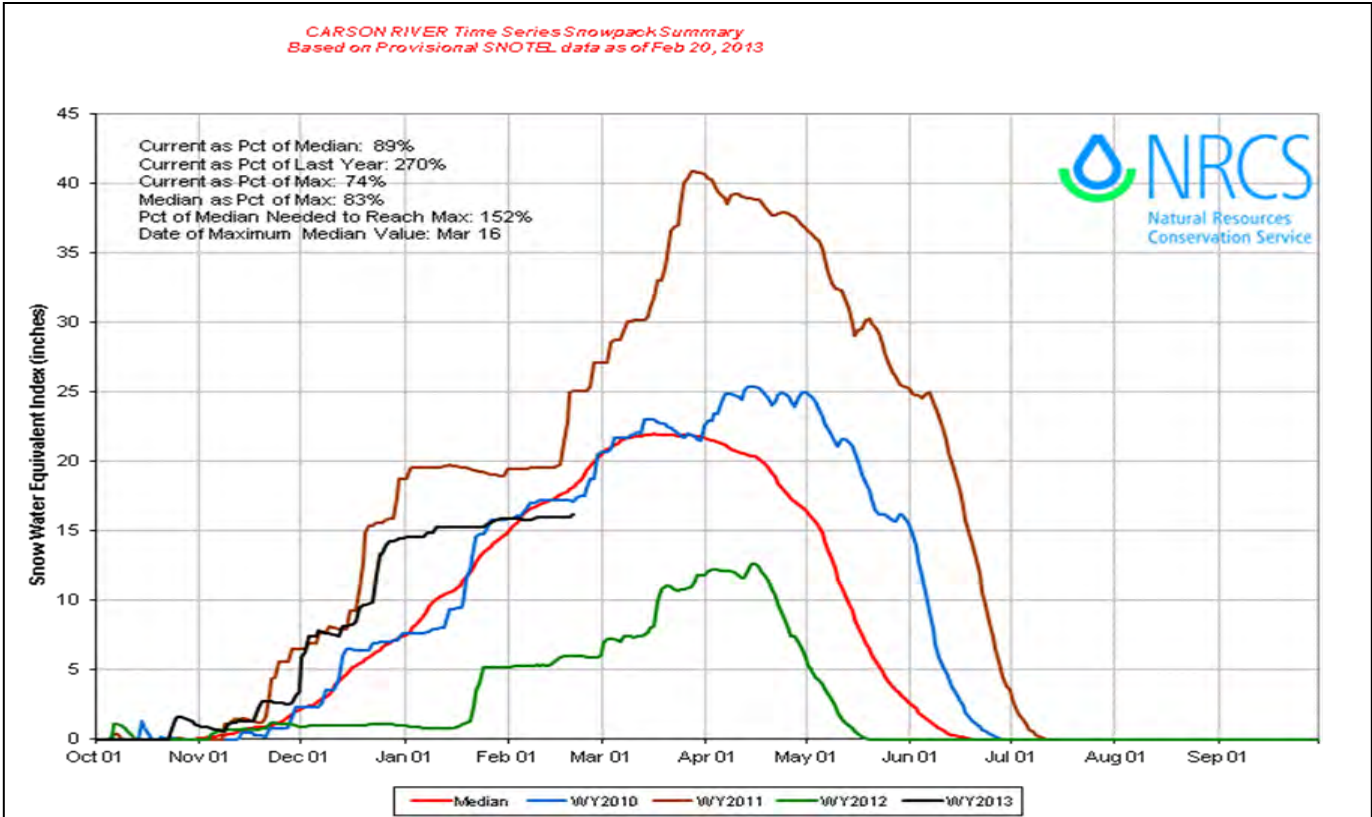
TO: Standing Advisory Committee
FROM: Bill Hauck, Sr. Hydrologist
DATE: February 20, 2013
SUBJECT: Update on Water Supply

The following excerpt from an e-mail from Dan Greenlee with the National Resources Conservation Service (NRCS) in Reno, Nevada summarizing our current snowpack conditions.

“The central Sierra snowpack started the year off with a very promising start to the snowpack at nearly double the average median values for January 1, but a dry January and February brought the hopes of a recovery from last year’s bone dry water conditions down to fairly disappointing conditions as we head into the last half of the month. The rest of Nevada never really got going despite some nice storms rolling through central and northern Nevada. The above mid-month forecasts for our key forecasting points providing water for western Nevada continue to drop with the prolonged dry spell the state finds itself in. “

The following graphs from NRCS SNOTEL sites show compare average median conditions to the last three years’ worth of snow data.







STANDING ADVISORY COMMITTEE

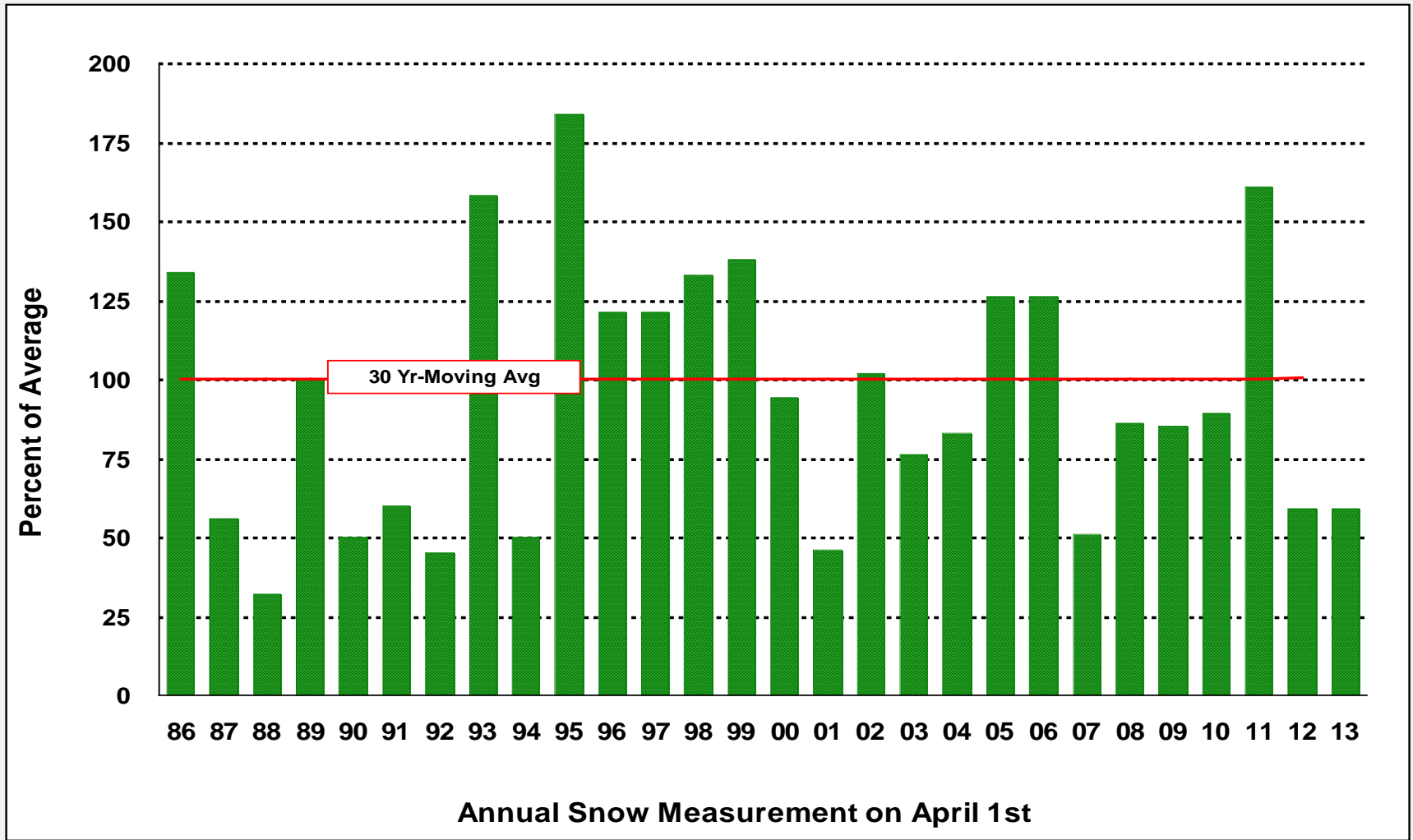
WATER SUPPLY UPDATE

April 2, 2013

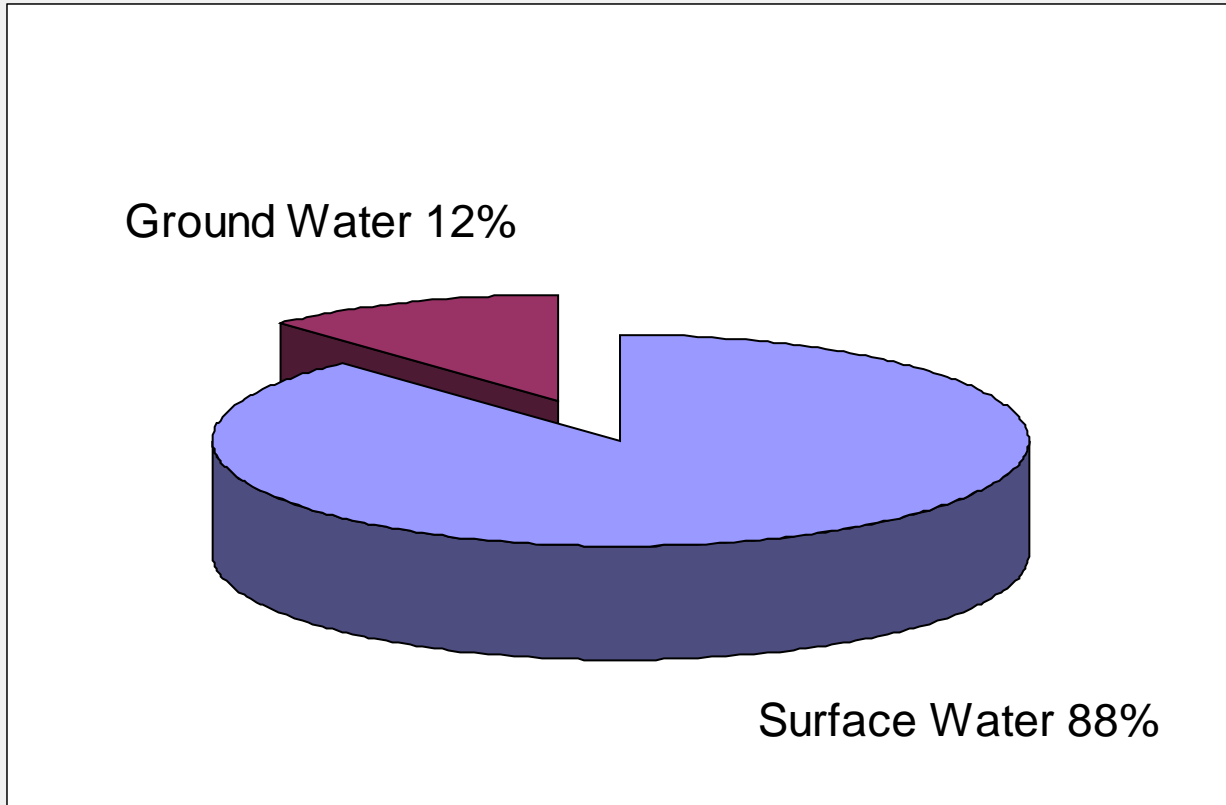
NRCS April 01 Snow Survey



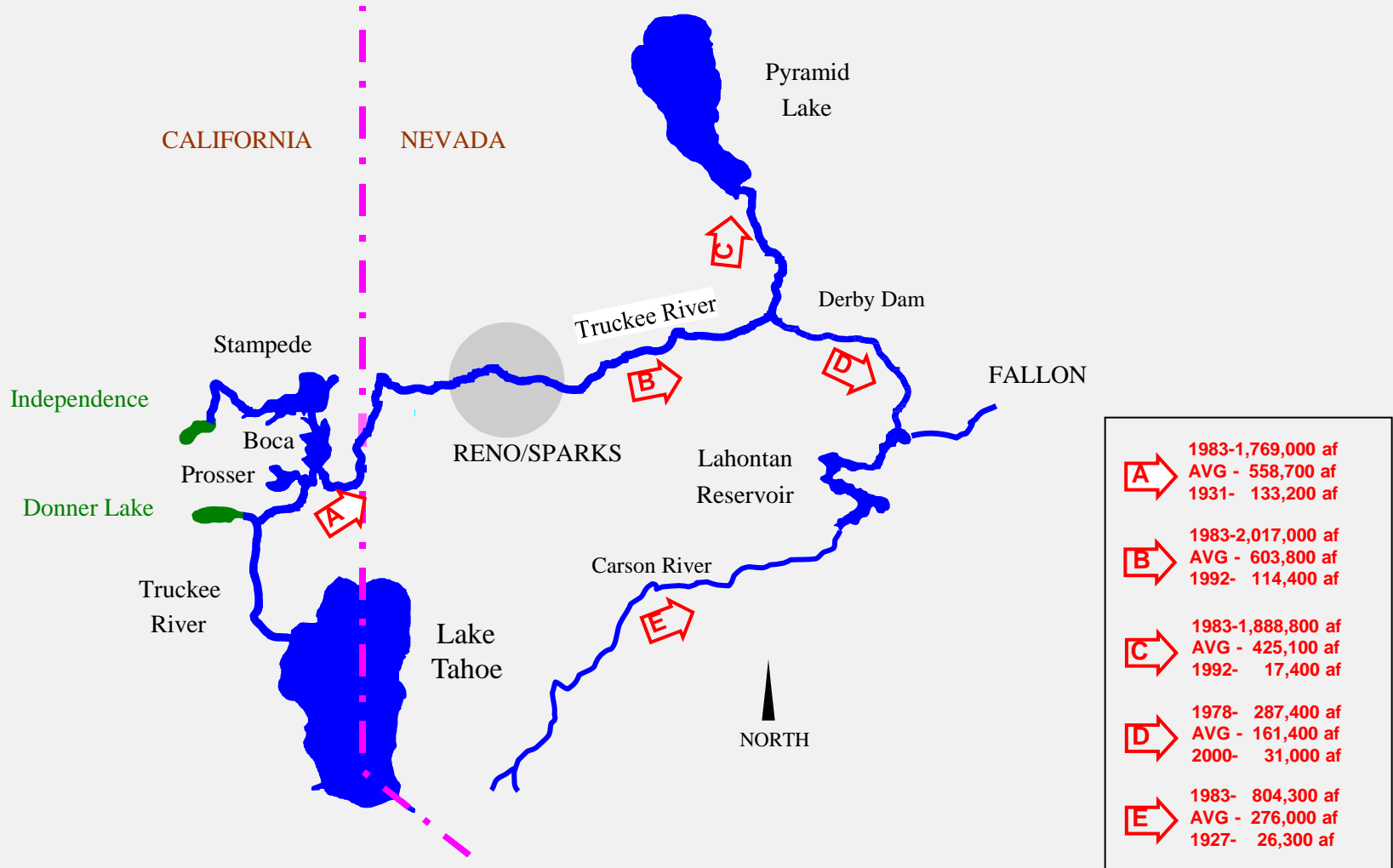
Truckee River Basin Snowpack



TMWA Sources of Supply in 2012

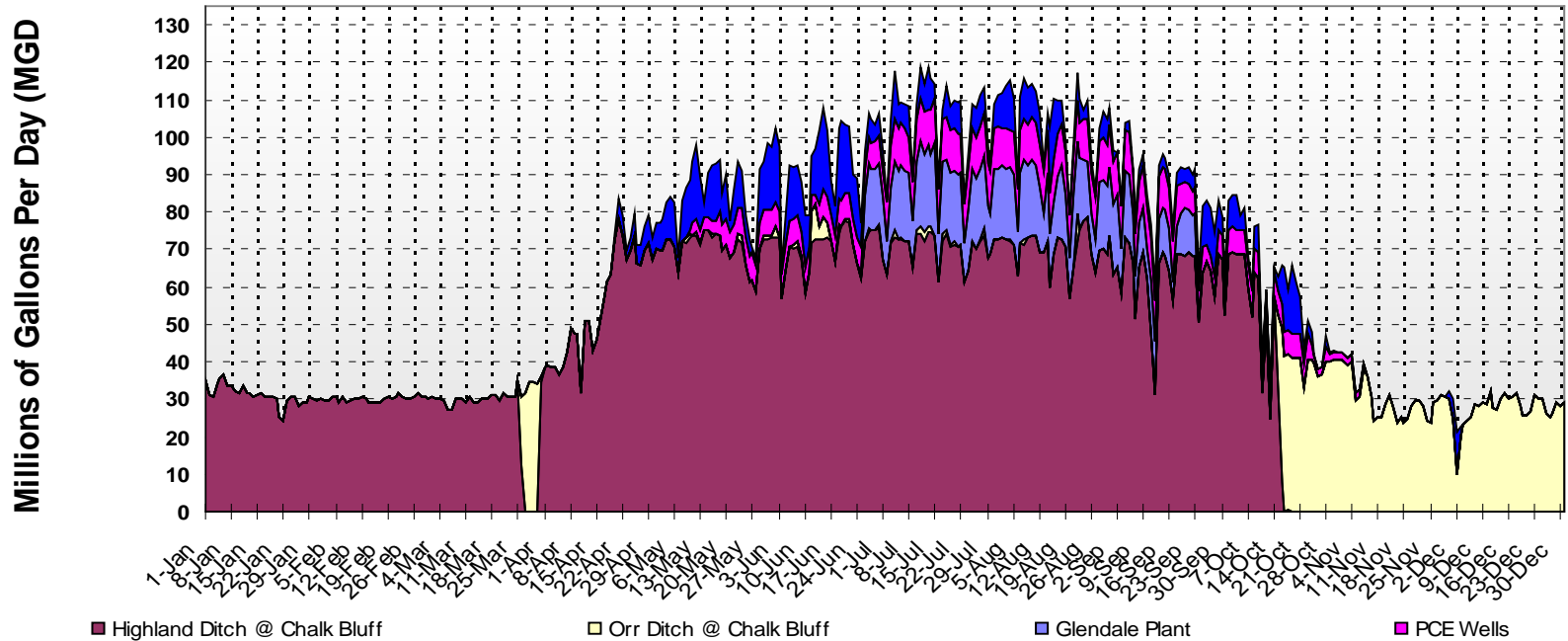


The Truckee River System

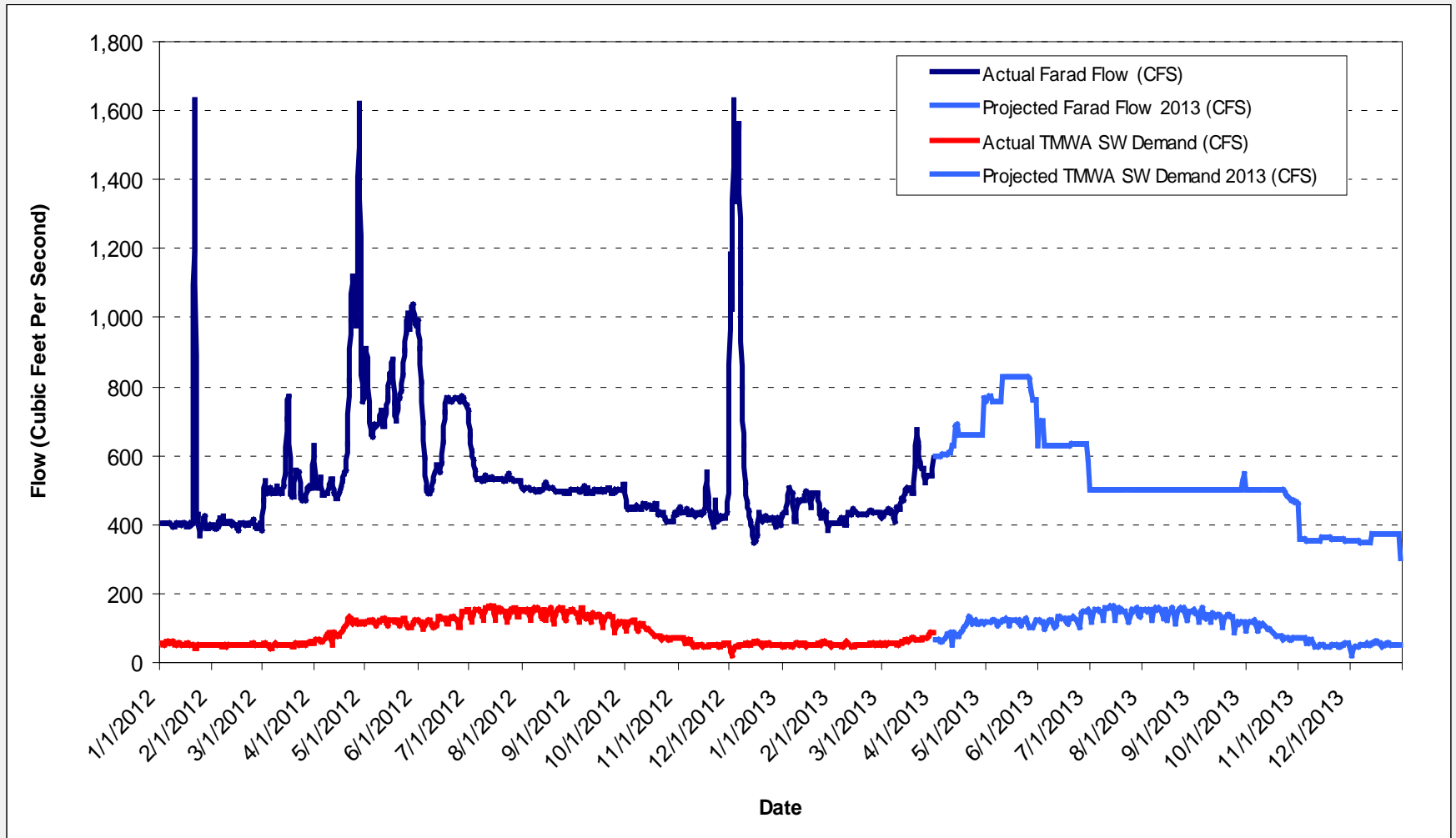


TMWA 2012 Sources of Supply

TRUCKEE MEADOWS WATER AUTHORITY 2012 Sources of Water Supply



Truckee River Flow and TMWA SW Demand (2012-Present)

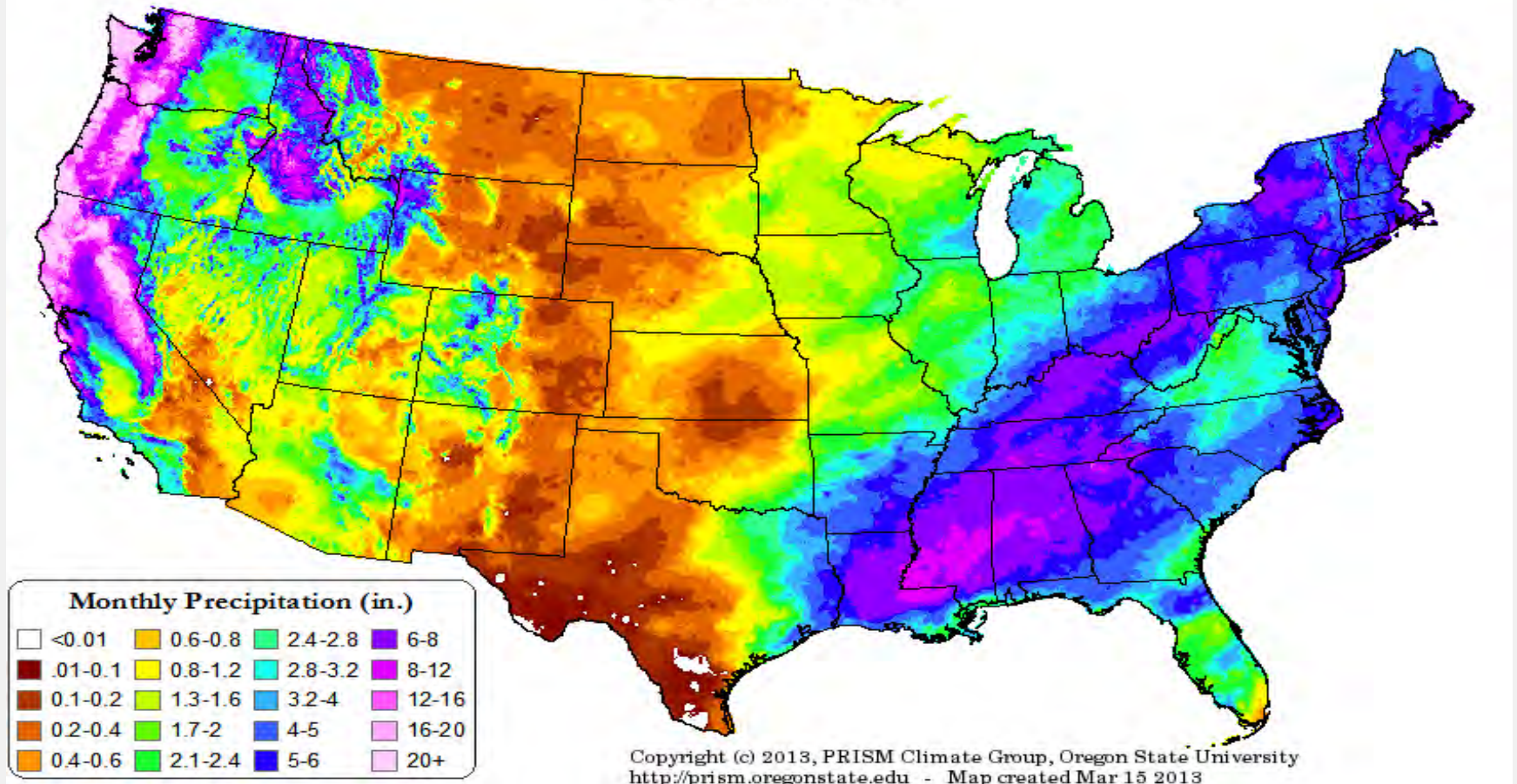


Great Start to 2013 Water Year



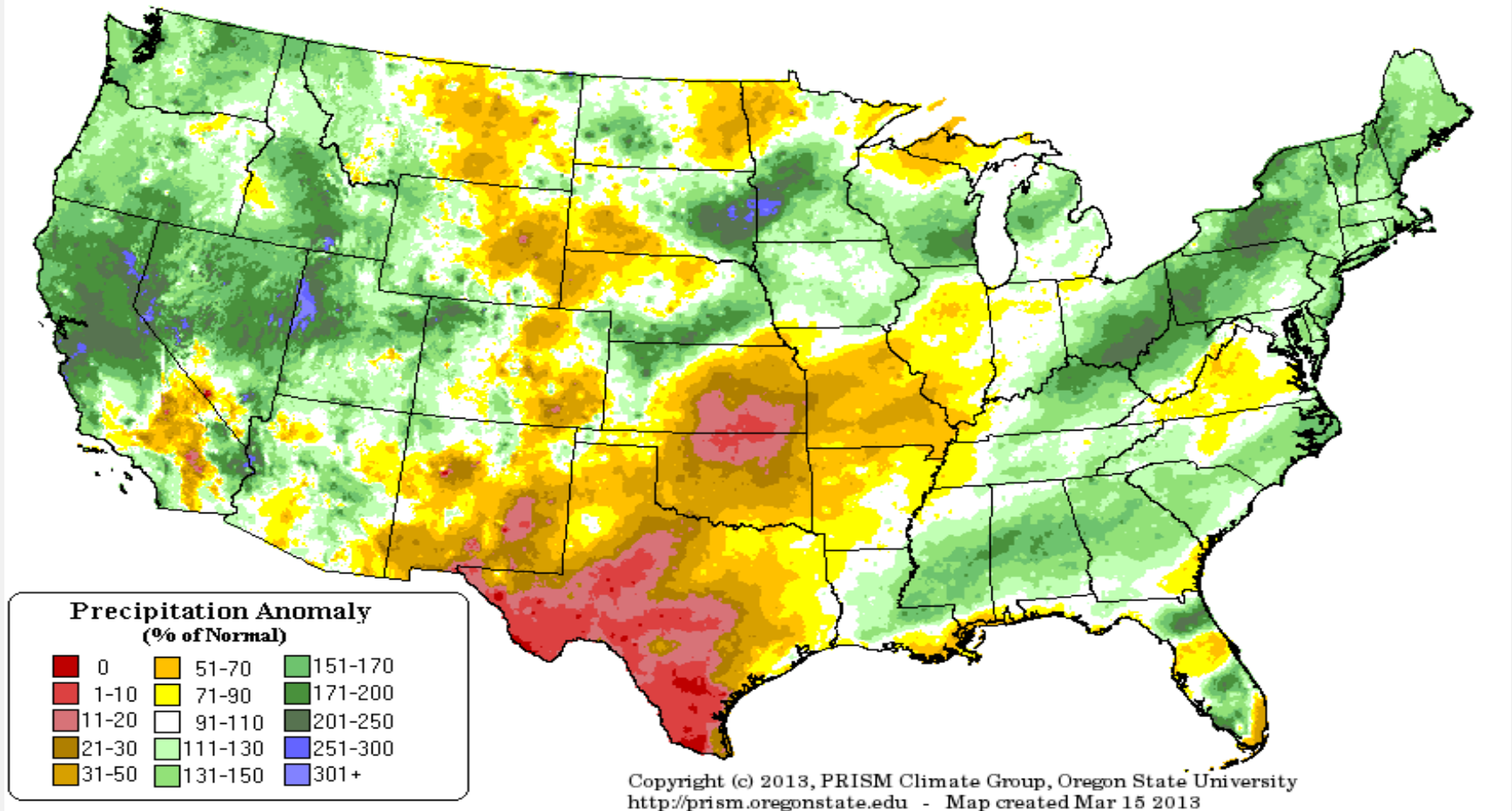
Sierra Snowpack Almost 2X Normal

Precipitation: Dec 2012
Provisional Data



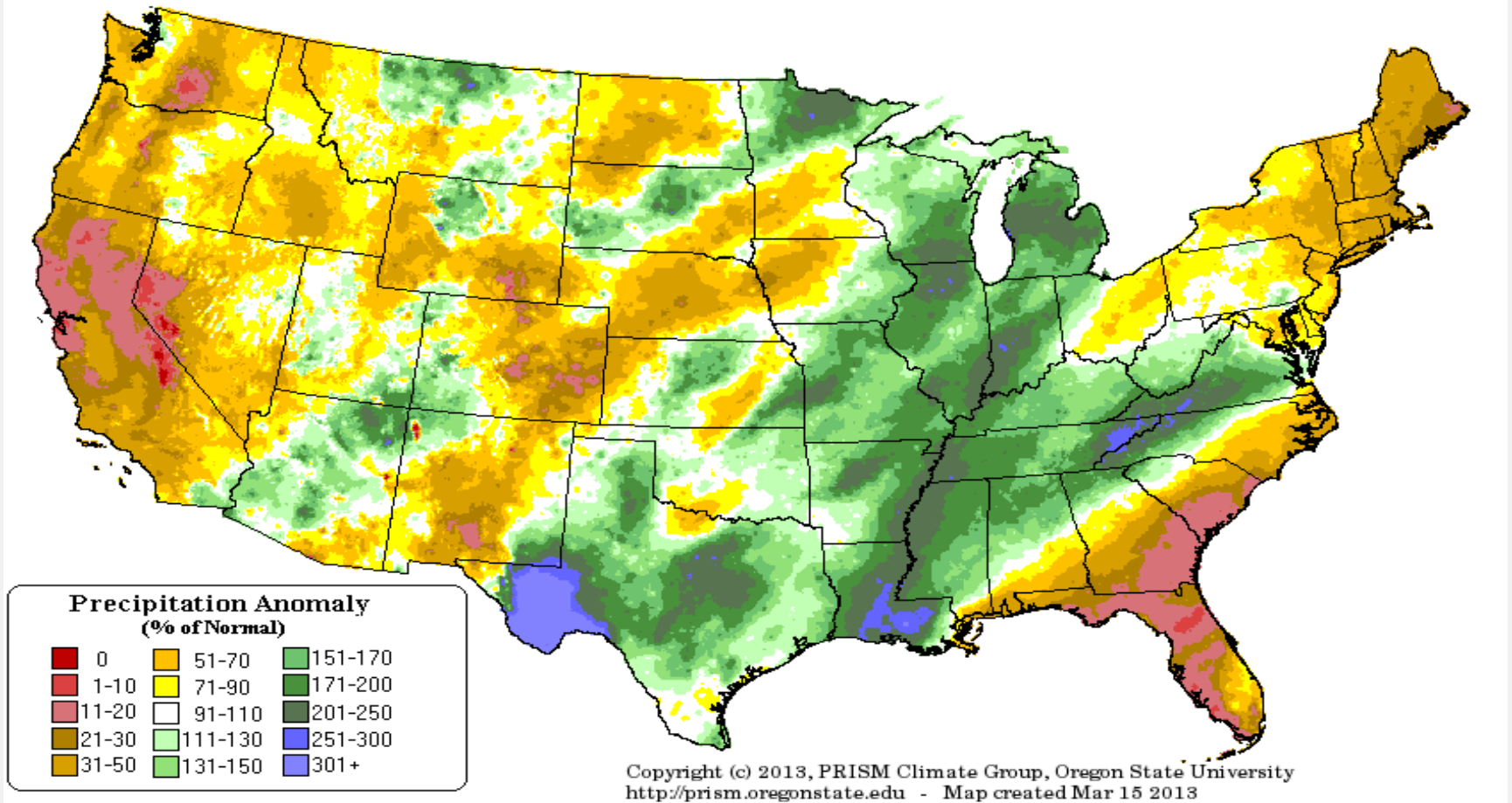
December 2012 170-200% Avg. PPT

Precipitation Anomaly: Dec 2012 Provisional Data



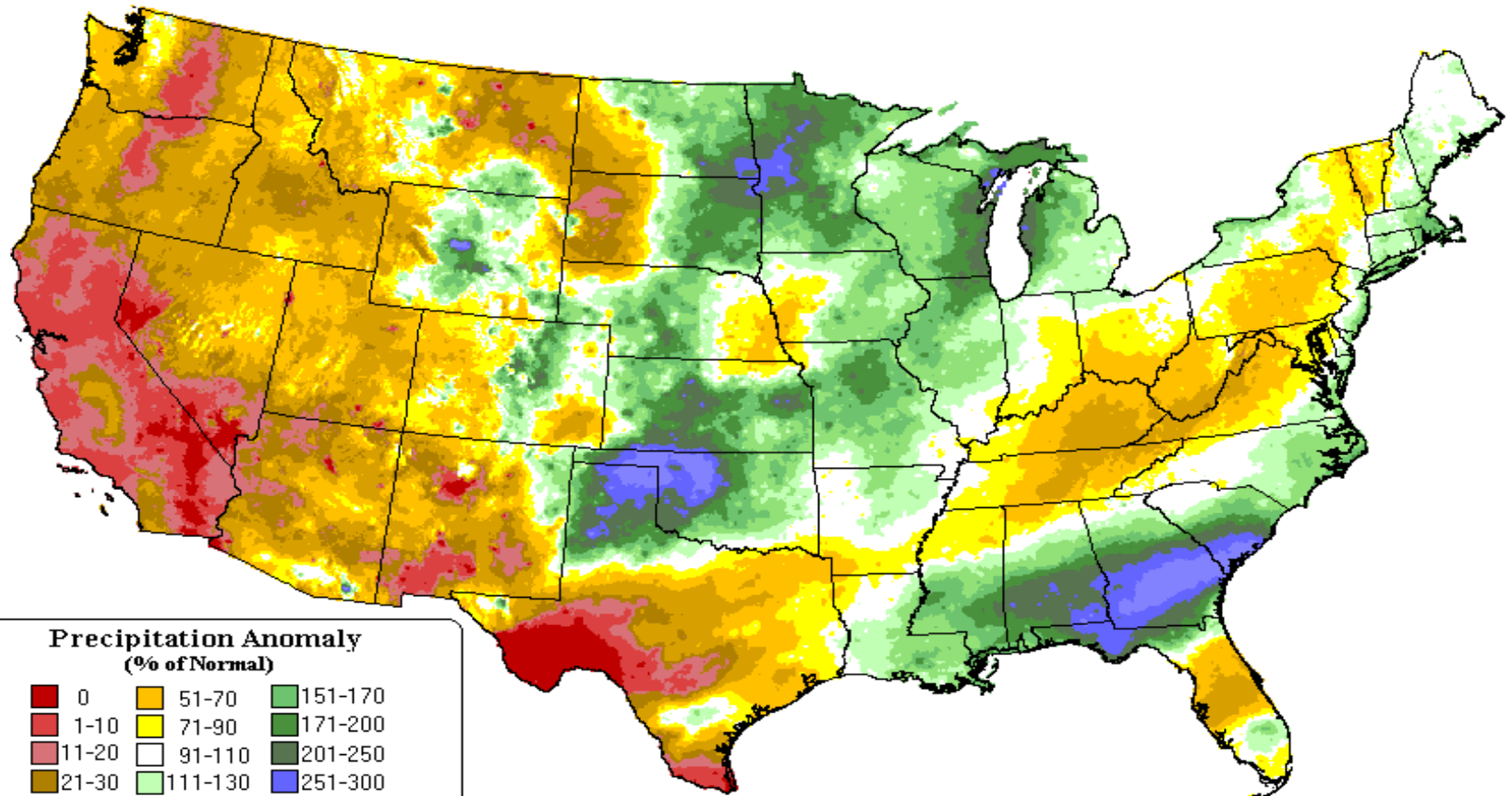
January 2013 Precipitation

Precipitation Anomaly: Jan 2013
Provisional Data



February 2013 Precipitation

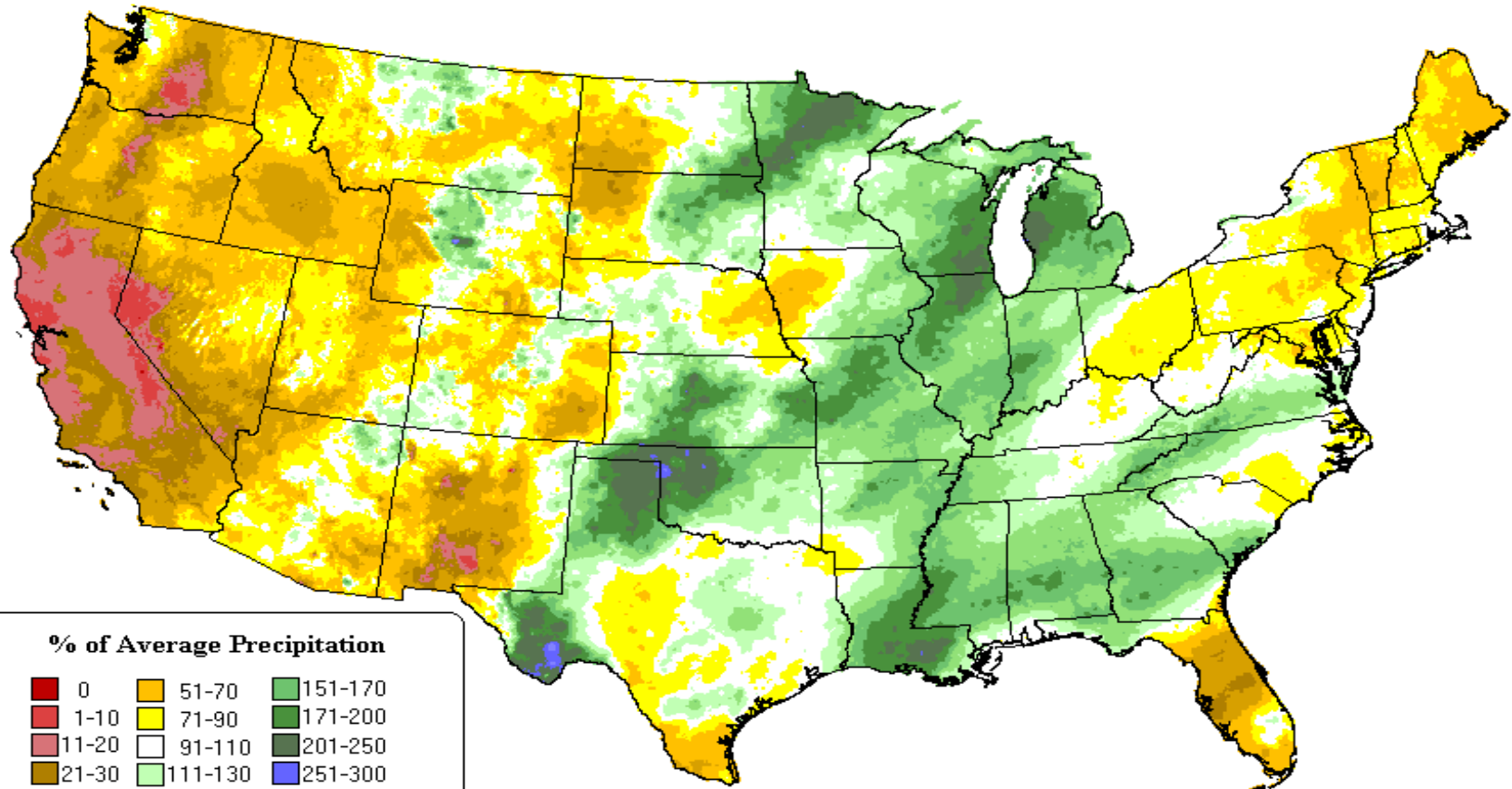
Precipitation Anomaly: Feb 2013 Provisional Data



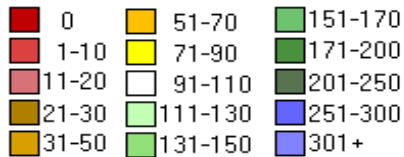
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<http://prism.oregonstate.edu> - Map created Mar 15 2013

Driest January and February Ever Recorded (plus March)

2-month Percent of Average Precipitation: Feb 2013

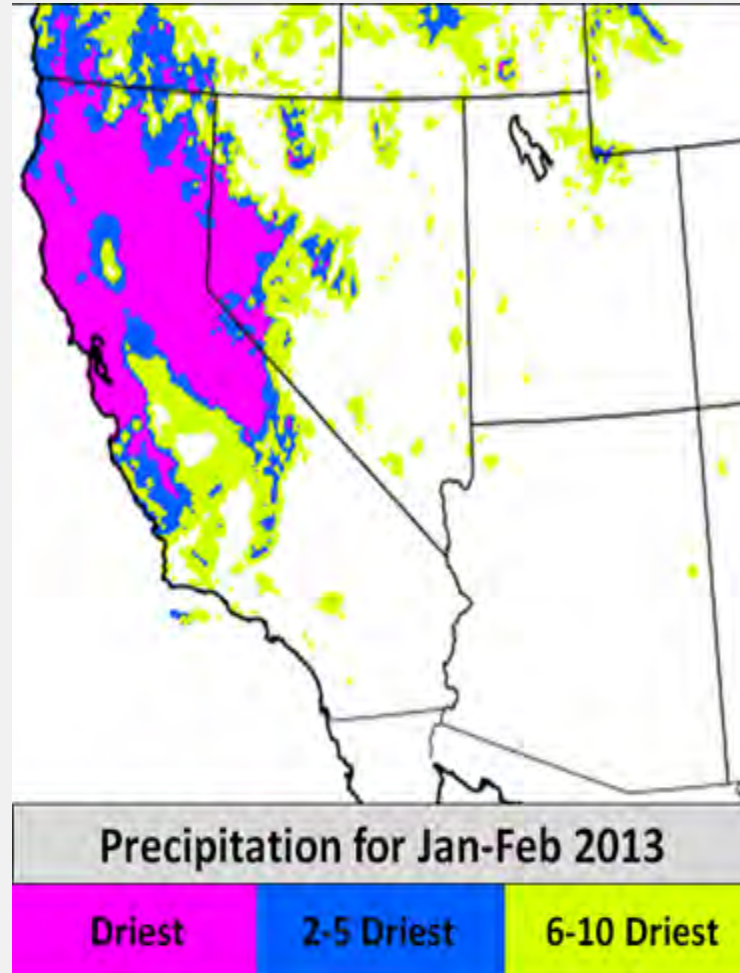


% of Average Precipitation



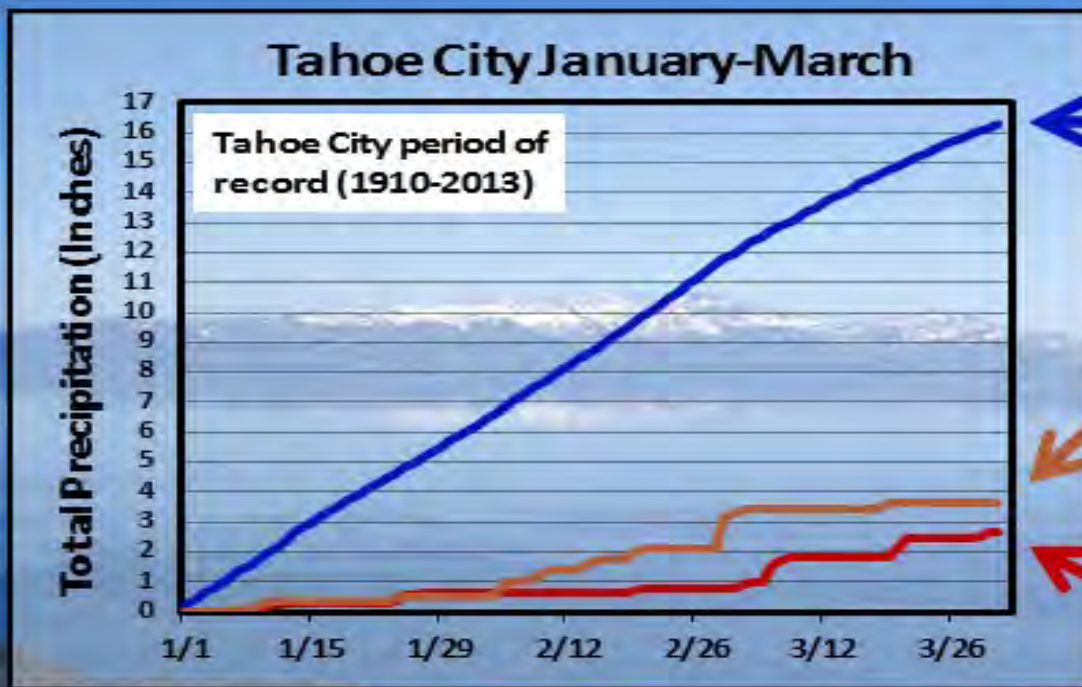
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<http://prism.oregonstate.edu> - Map created Mar 15 2013

Sierra Nevada and Northern CA January and February 2013





Driest January-March for Tahoe City on Record



Average
(1980-2010)
Precipitation = **16.30** in

Previous Driest
Year on record (1976)
Precipitation = **3.62** in

2013
Precipitation = **2.68** in

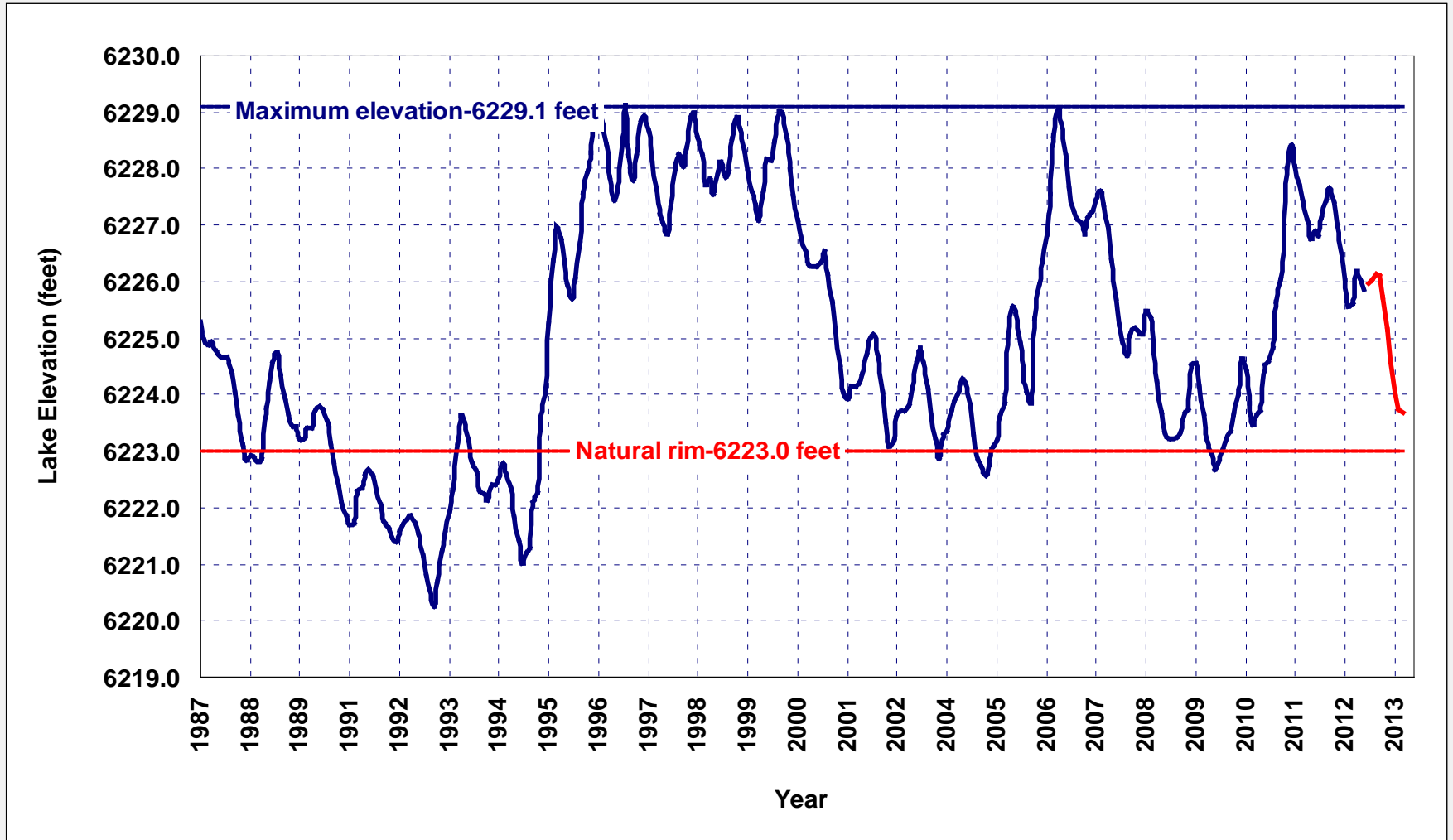
A storm the last few days of March brought some much needed precipitation to the Tahoe Basin; however, it was not enough to avoid being the driest January-March in over 100 years.



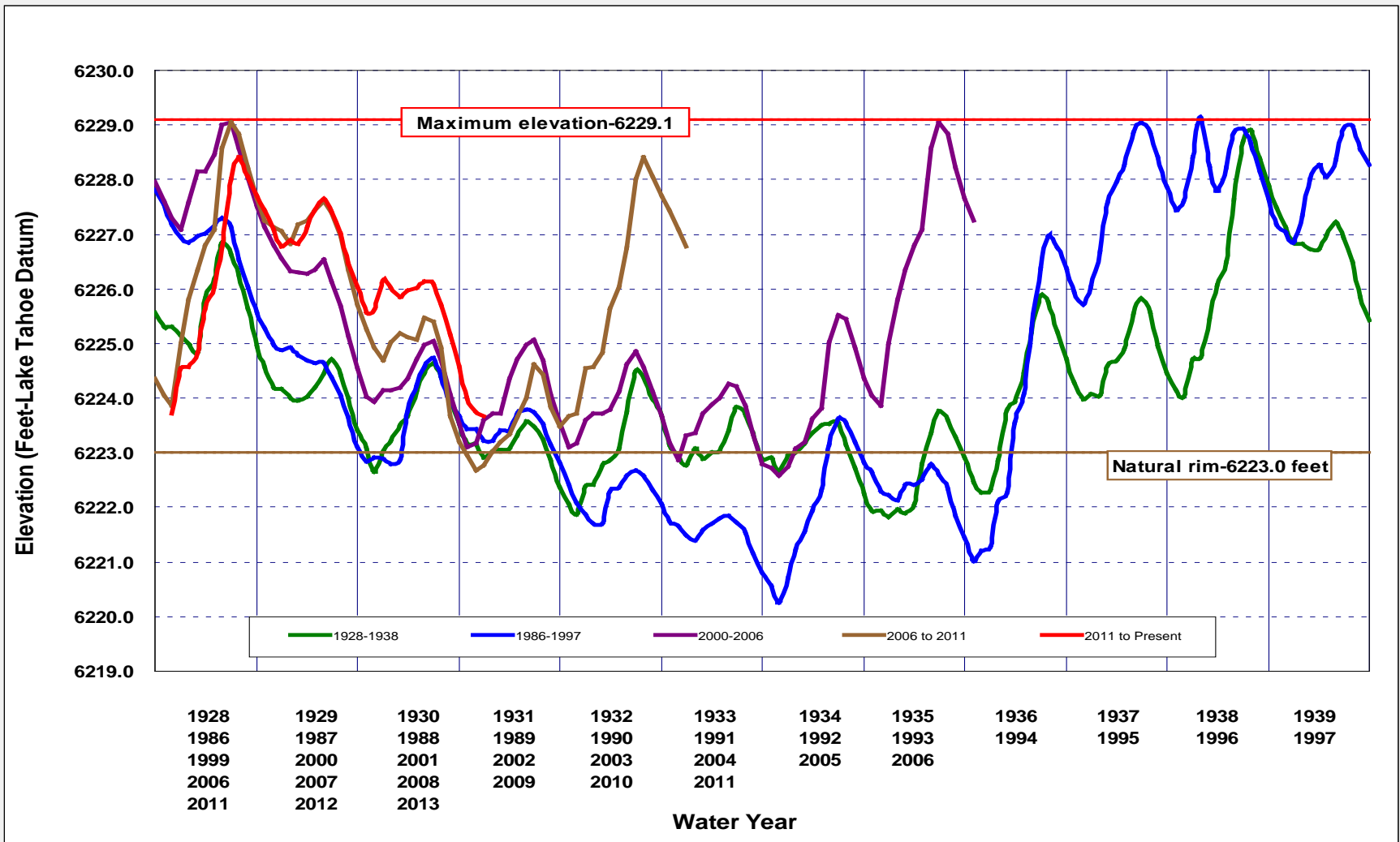
Issued Tuesday, Apr 2, 2013 at 9:16 am PDT
National Weather Service - Reno, NV



Lake Tahoe Elevation 1986 - Present



Comparison of Tahoe Elevations During Dry Cycles



2014 Water Supply Outlook?

