

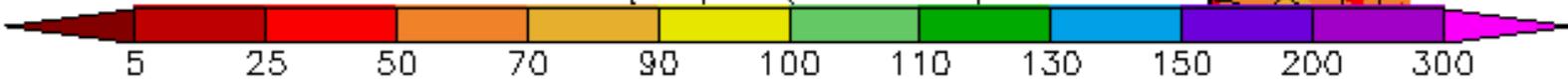
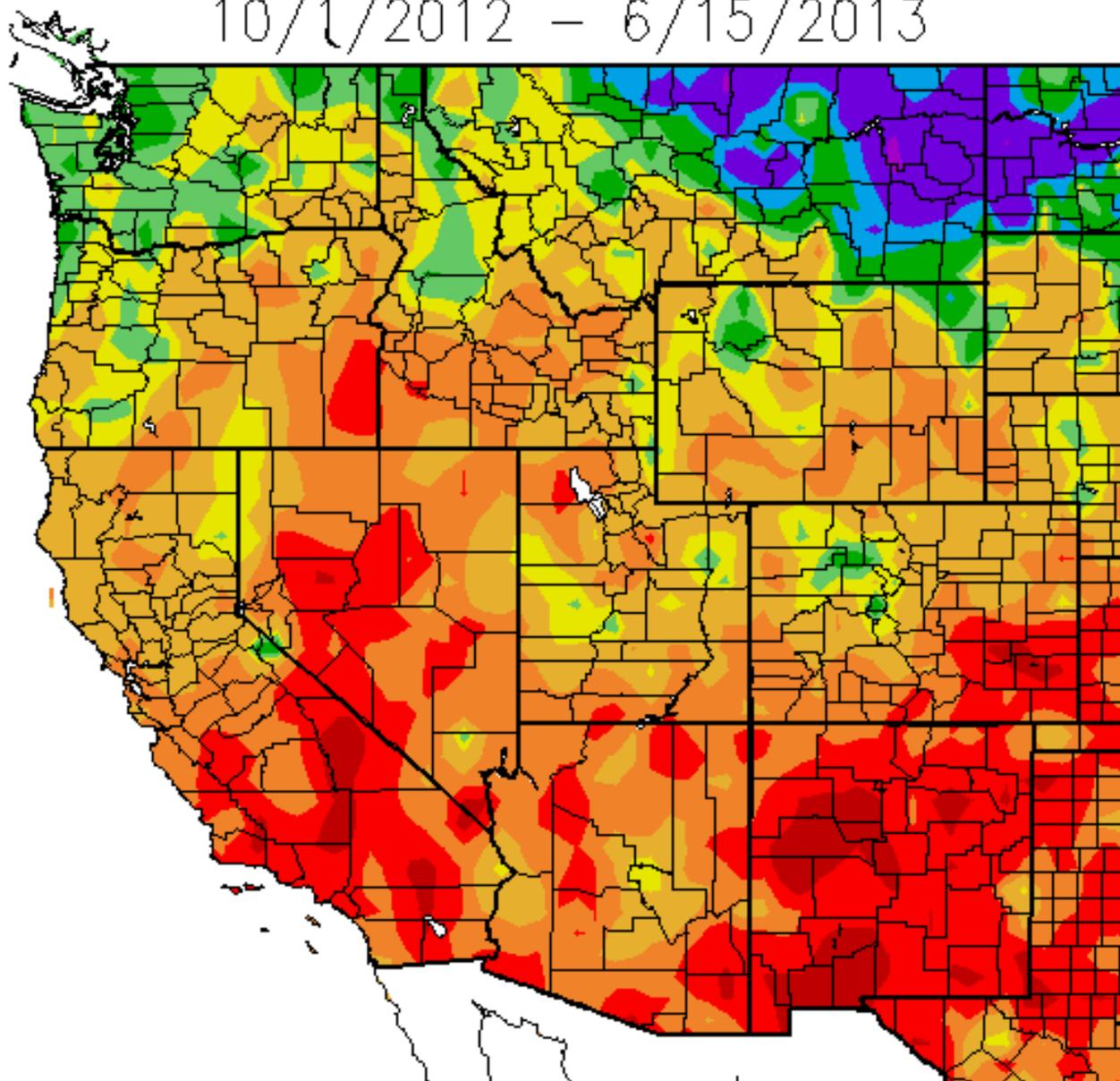


Water Year 2013 – Second Dry Year

Jeanine Jones

Percent of Average Precipitation (%)

10/1/2012 - 6/15/2013



Generated 6/16/2013 at WRCC using provisional data.

% of Normal Precipitation

(NWS precip year, provisional data as of 6/16/13)

- Eureka – 80%
- Ukiah – 75%
- Redding – 78%
- Sacramento – 80%
- San Francisco – 70%
- Merced – 61%
- Fresno – 49%
- Bakersfield – 49%
- Los Angeles – 54%
- Irvine – 37%
- Riverside – 33%
- Palm Springs – 38%
- San Diego – 63%

WY 2013 – Record Wet & Dry in Sacramento and San Joaquin Valley Watersheds

- Nov-Dec 2012: more than 70% of water year precip for 8-station index (Sac Valley watershed)
- Dec 2012: 10th wettest Dec of record for 8-station index
- Jan-May 2013: 8-station index and 5-station index (SJ Valley watershed) driest in 90 years of record

WY 2013 in Context

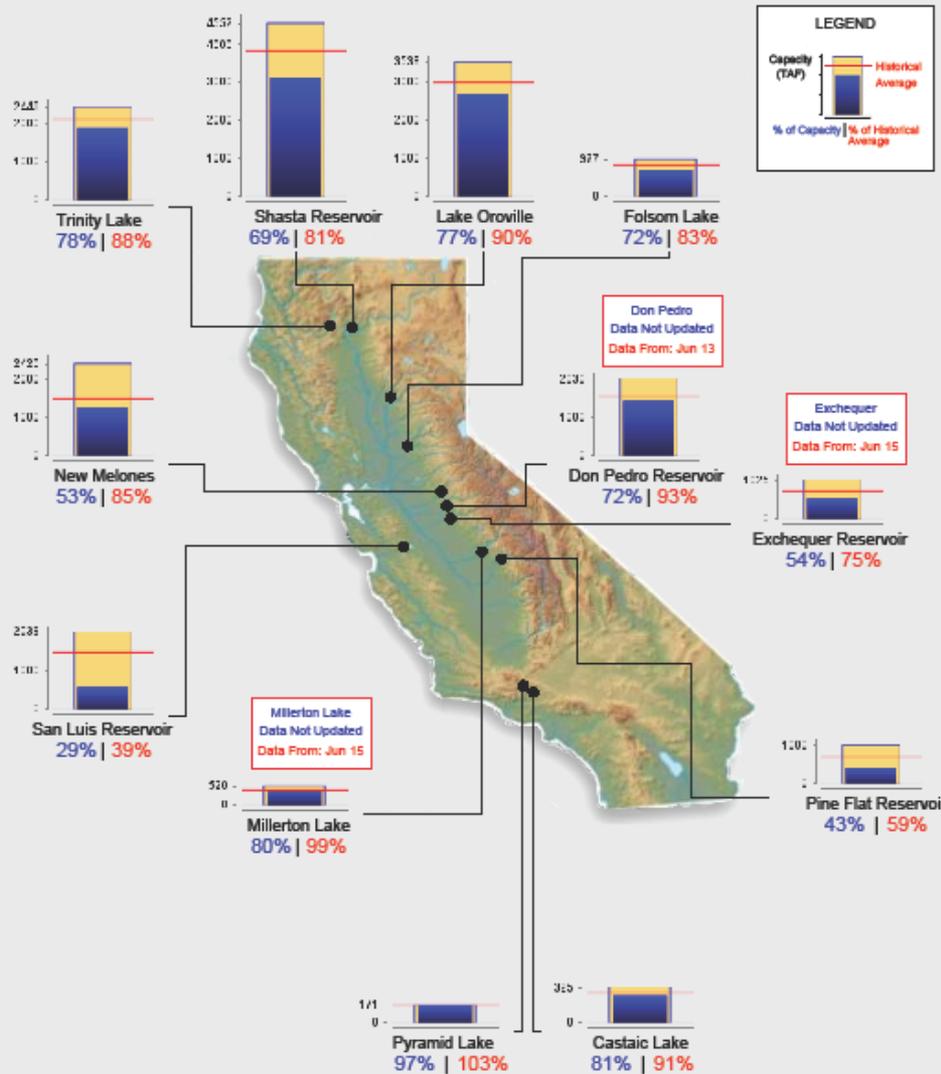
- Second dry year, following a dry 2012
- Generally good statewide reservoir storage, thanks to record wet early winter
- Colorado River Basin remains dry, Lake Powell inflow below average in 11 of past 14 years.



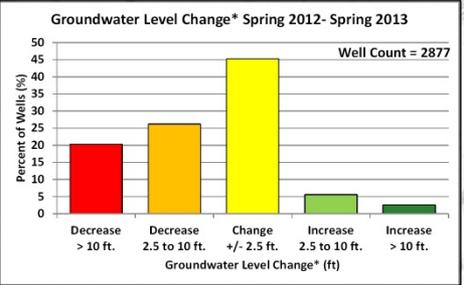
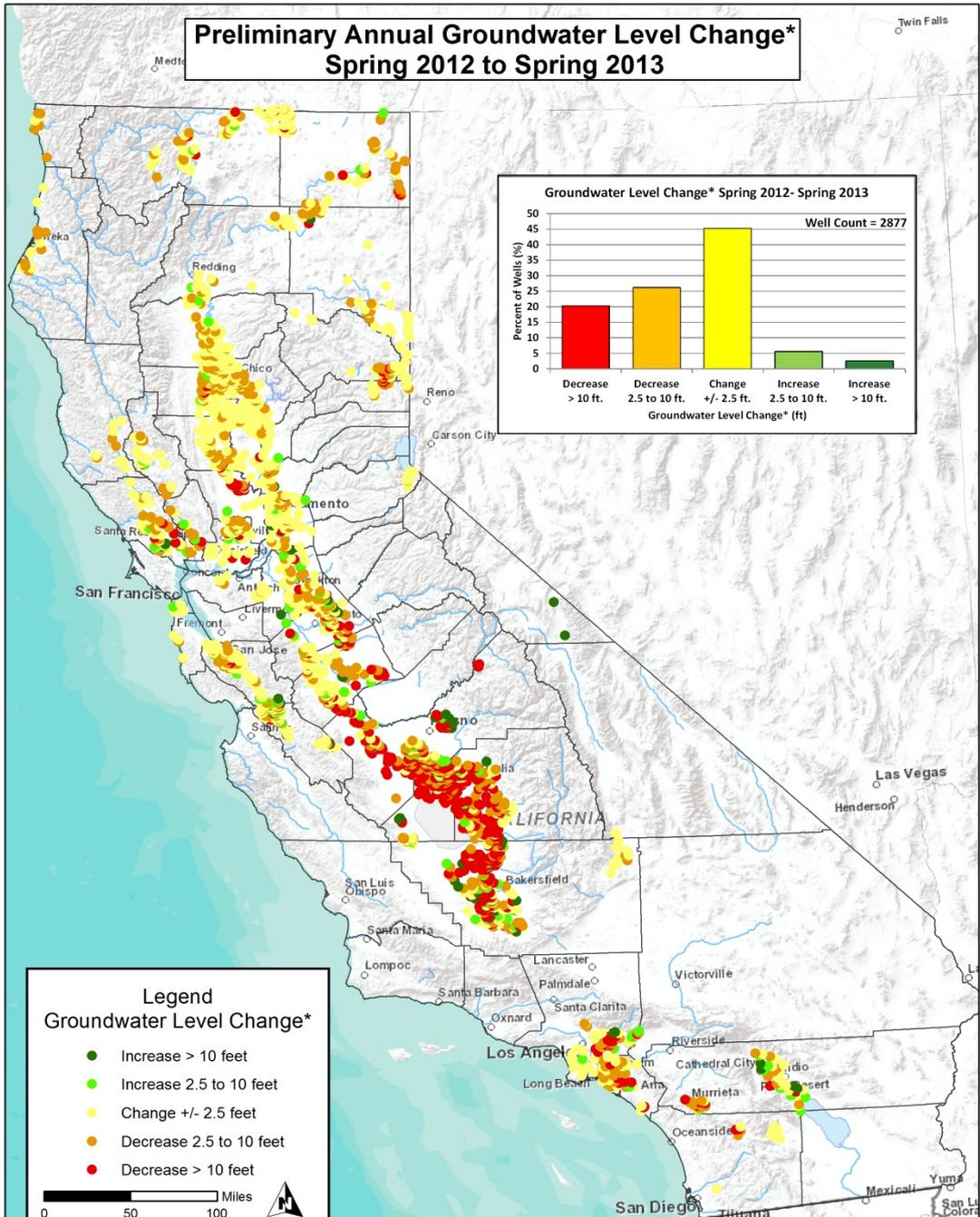
Reservoir Conditions

Ending At Midnight - June 16, 2013

CURRENT RESERVOIR CONDITIONS



Preliminary Annual Groundwater Level Change* Spring 2012 to Spring 2013



Legend Groundwater Level Change*

- Increase > 10 feet
- Increase 2.5 to 10 feet
- Change +/- 2.5 feet
- Decrease 2.5 to 10 feet
- Decrease > 10 feet

0 50 100 Miles

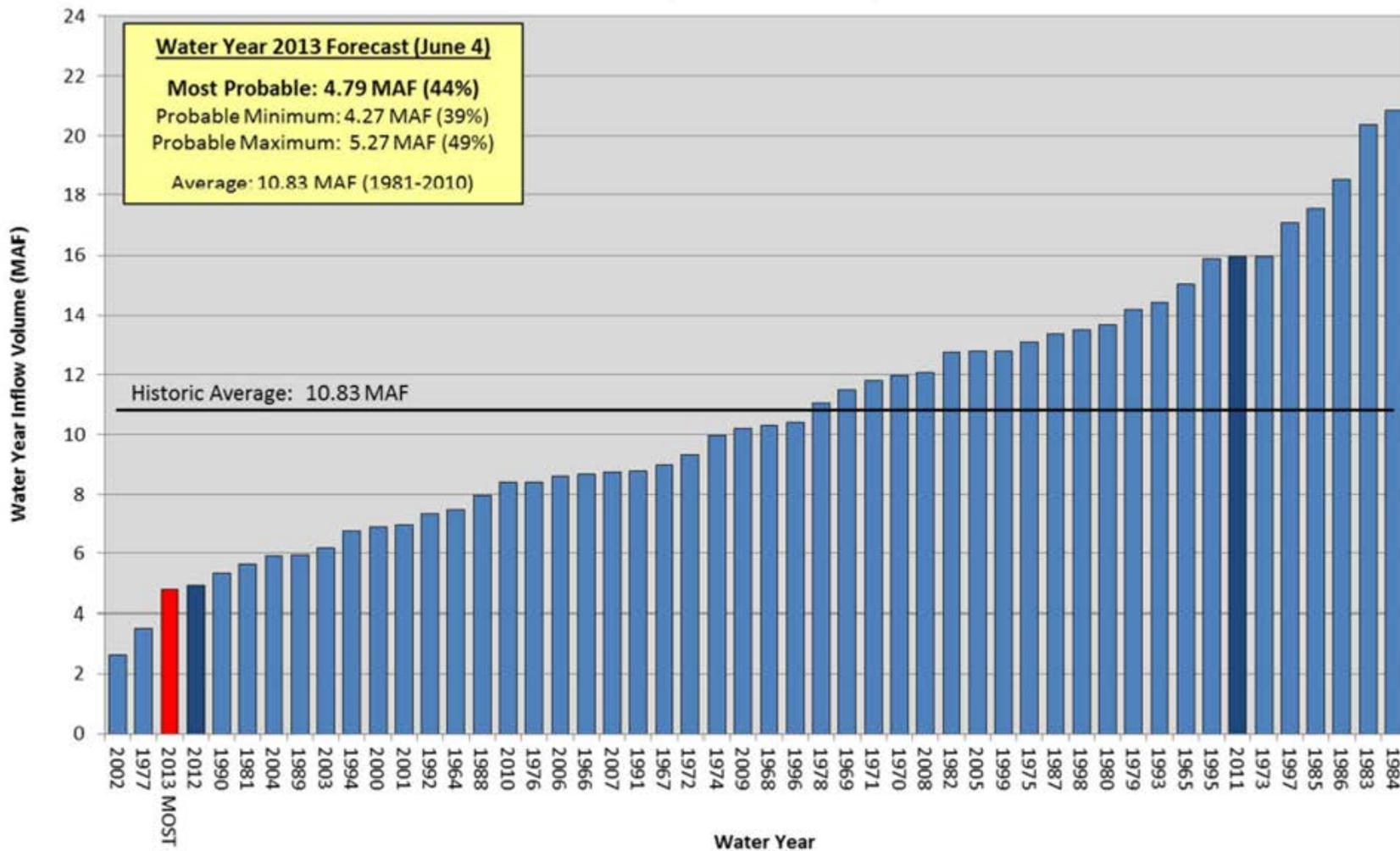
*Groundwater level change determined from water level measurements in wells. Prepared June 17th, 2013. ESRI, NAVTEQ, DeLorme

Unregulated Inflow into Lake Powell

Water Year 2013 Forecast

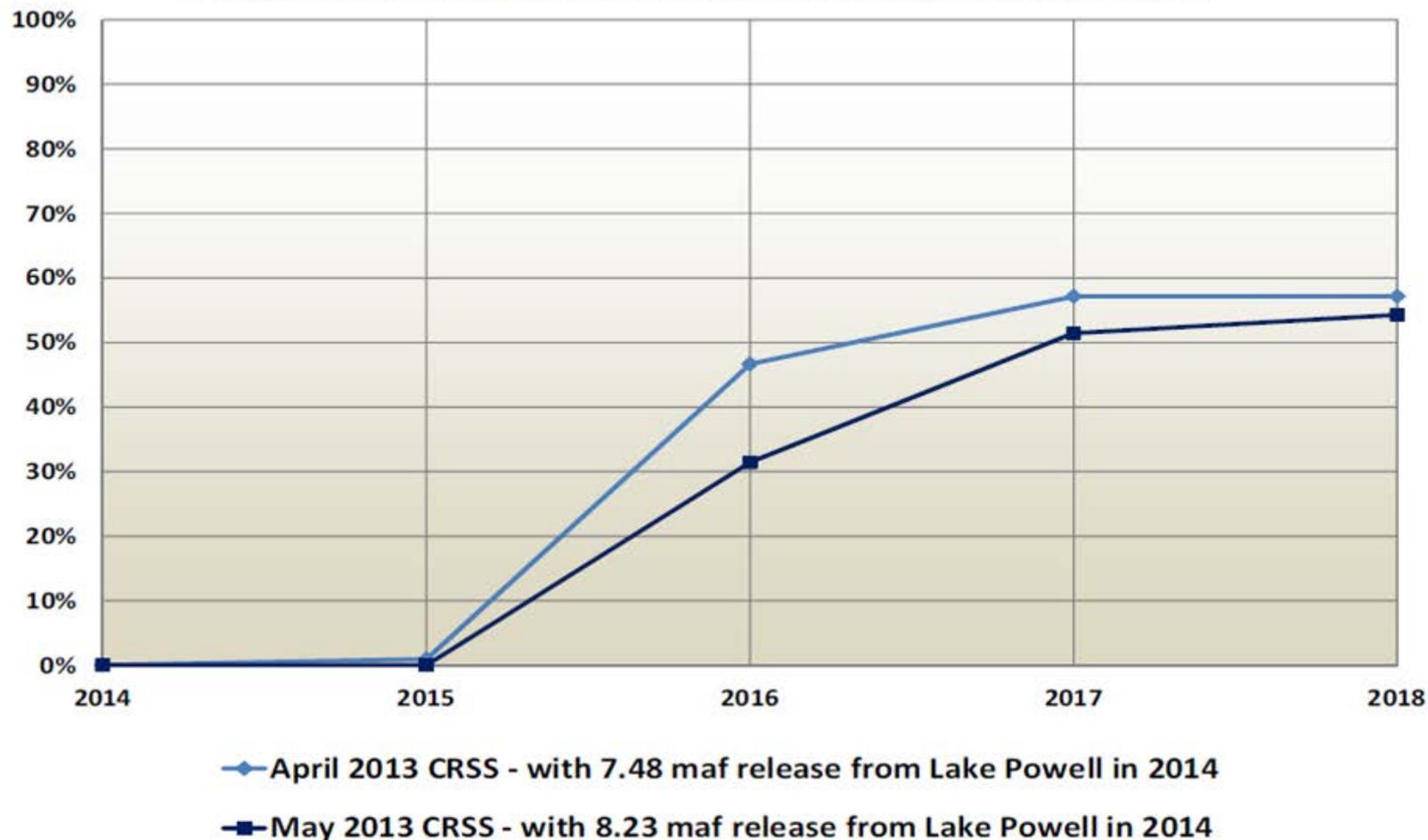
(as of June 4)

Comparison with History



Lower Basin Shortage through 2018

Probabilities of Lower Basin Shortage
Comparison of results from the April and May 2013 CRSS Runs^{1,2}



¹ April CRSS run: Reservoir initial conditions based on projected levels on Dec. 31, 2013, from the April 2013 24-Month Study (7.48 maf from Powell in 2014)

² May CRSS run: Reservoir initial conditions based on projected levels on Dec. 31, 2013, from the May 2013 24-Month Study (8.23 maf from Powell in 2014)

Water Project Allocations

- Colorado River – full supplies
- State Water Project – 35%
- Central Valley Project
 - Sac & SJ River settlement & exchange: 100%
 - North of Delta Ag/M&I: 75%/100%
 - South of Delta Ag/M&I: 20%/70%
 - Wildlife refuges (level 2): 100%
 - Eastside Division (New Melones): 100%
 - Friant: 50% class 1, 0% class 2

Typical Dry Year Impacts

- Livestock grazing, dryland agriculture
- CVP agricultural contractors in San Joaquin Valley (SOD, Friant)
- Small water systems in rural areas on fractured rock groundwater
- Small groundwater basins w/ minimal recharge & storage capabilities (e.g., coastal terrace basins)



Response to Dry Conditions

- Governor's Executive Order on facilitating water transfers, also tracking SJV groundwater levels and land subsidence
- Training for small water systems
- Impact assessment and quantification
- Outreach on preparing for possibility of a dry 2014

Summary

- Dry statewide, but storage generally good
- Full Colorado River supply
- No impacts for many water users
- Need to prepare for the possibility of a dry 2014

