

# Project Operations Update State Water Board Workshop May 20, 2015

*DROUGHT PREPAREDNESS & RESPONSE*



PUBLIC SAFETY

ENVIRONMENTAL STEWARDSHIP

ECONOMIC STABILITY

# U.S. Drought Monitor West

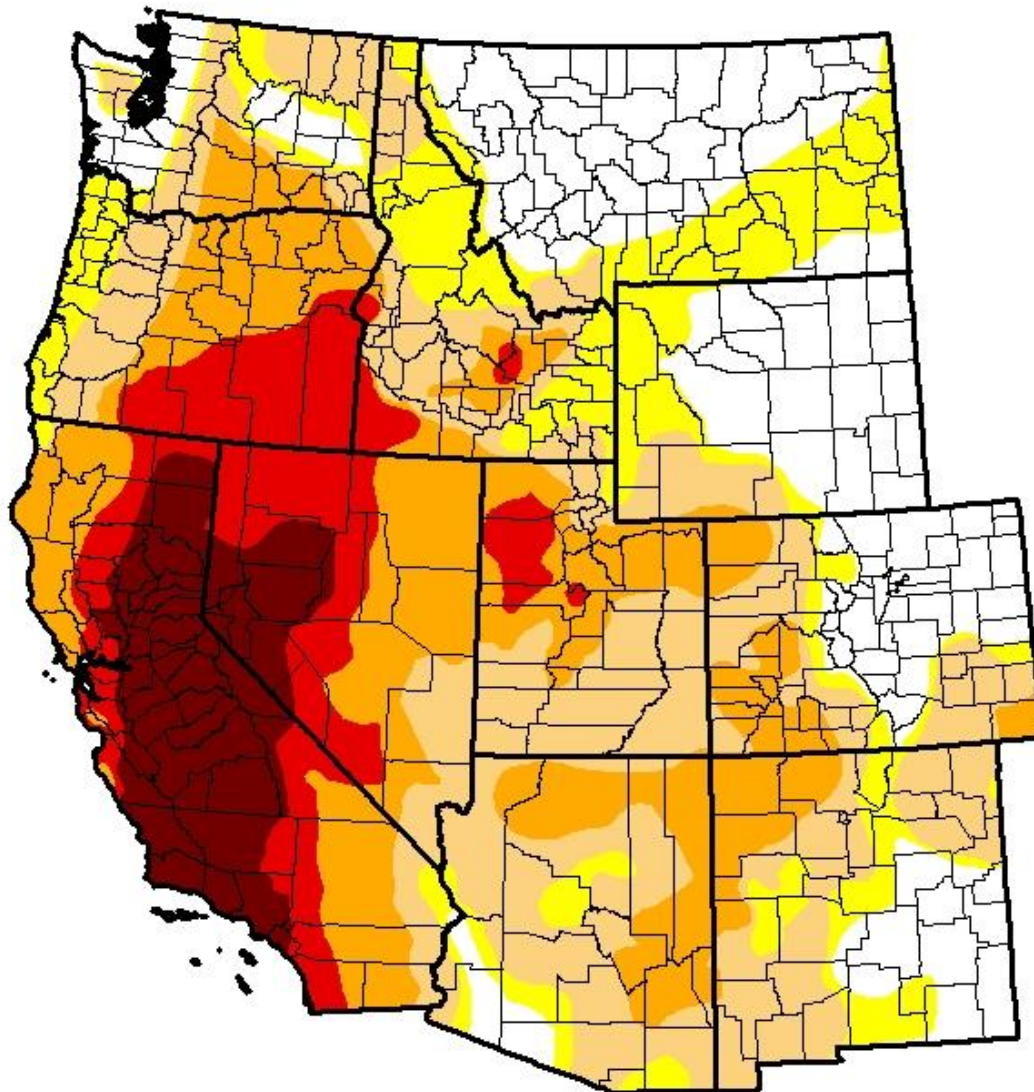
**May 12, 2015**

*(Released Thursday, May. 14, 2015)*

Valid 8 a.m. EDT

*Drought Conditions (Percent Area)*

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	22.69	77.31	63.10	38.04	17.54	7.95
<b>Last Week</b> <i>5/5/2015</i>	23.35	76.65	63.22	39.05	17.54	7.95
<b>3 Months Ago</b> <i>2/10/2015</i>	30.41	69.59	52.65	30.63	17.10	6.96
<b>Start of Calendar Year</b> <i>12/30/2014</i>	34.76	65.24	54.48	33.50	18.68	5.40
<b>Start of Water Year</b> <i>9/30/2014</i>	31.48	68.52	55.57	35.65	19.95	8.90
<b>One Year Ago</b> <i>5/13/2014</i>	31.18	68.82	60.82	47.37	19.96	4.70



***Intensity:***

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.*

**Author:**

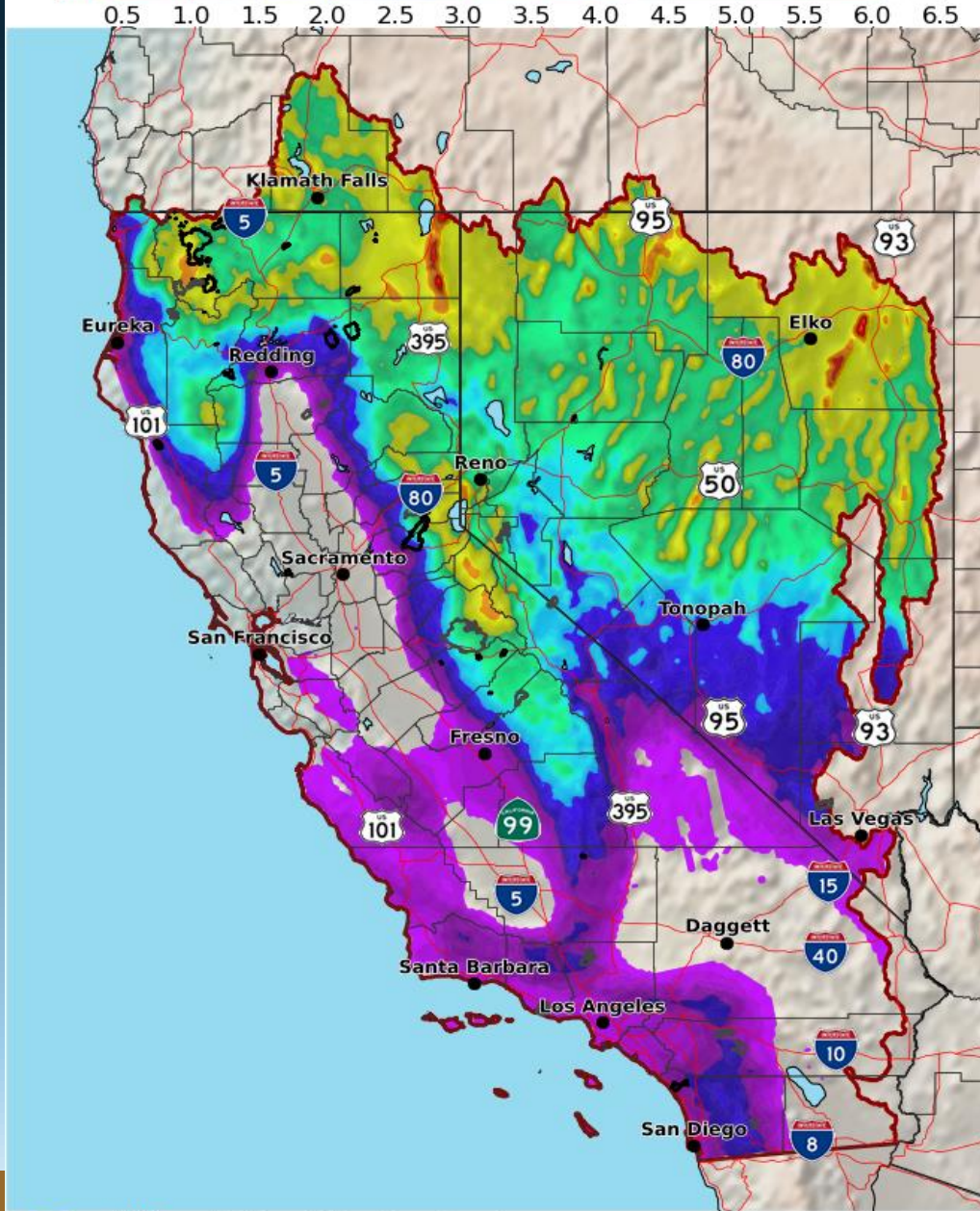
*Mark Svoboda*

*National Drought Mitigation Center*



# 6-Day Forecast Precipitation (Inches)

Valid: Tue May 19, 2015 at 05 AM PDT to Mon May 25, 2015 at 05 AM PDT



National Weather Service  
CNRFC - Sacramento, CA

Created: 05/19/2015 07:50 AM PDT

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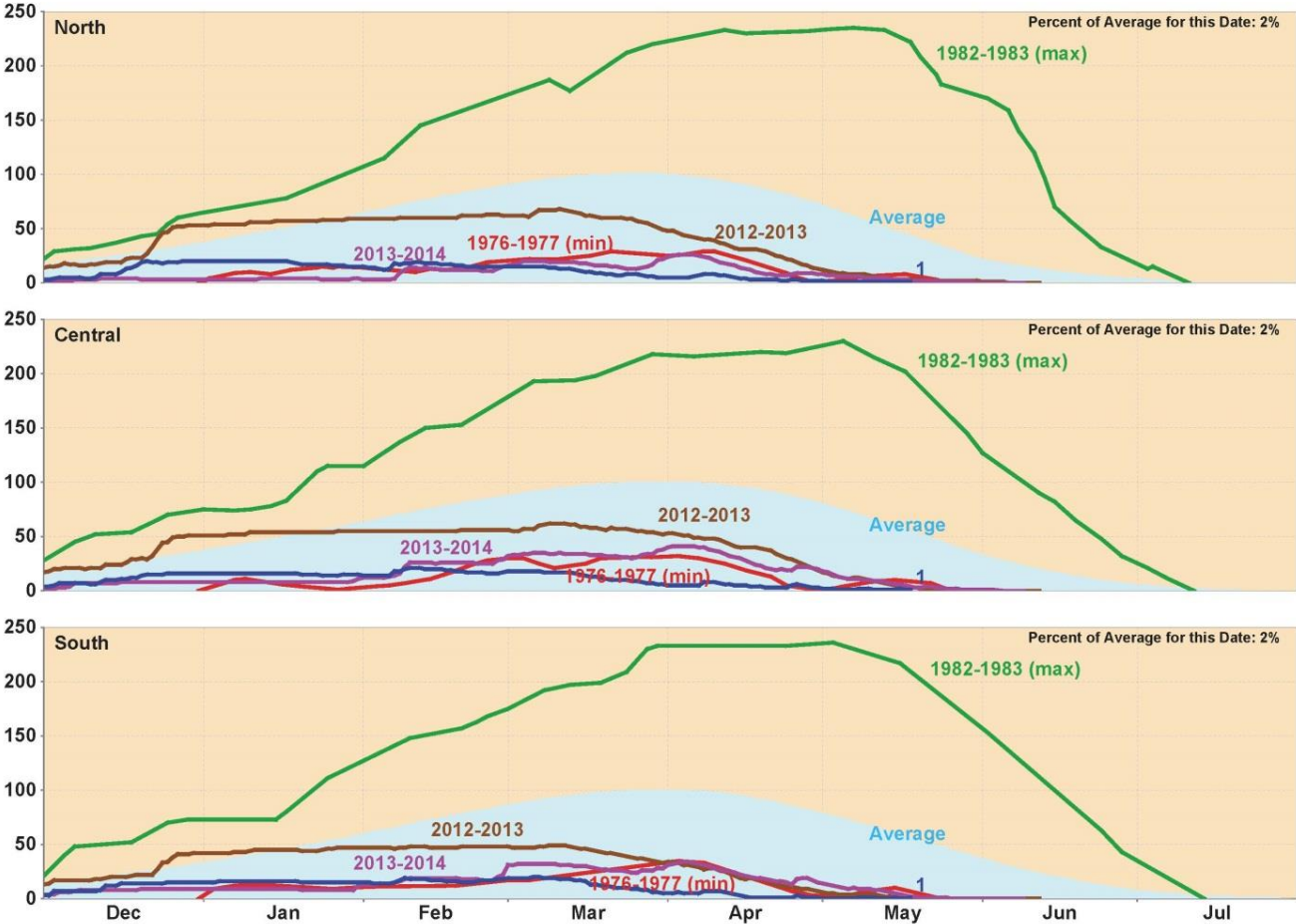
& RESPONSE



# Statewide Snow Water Content

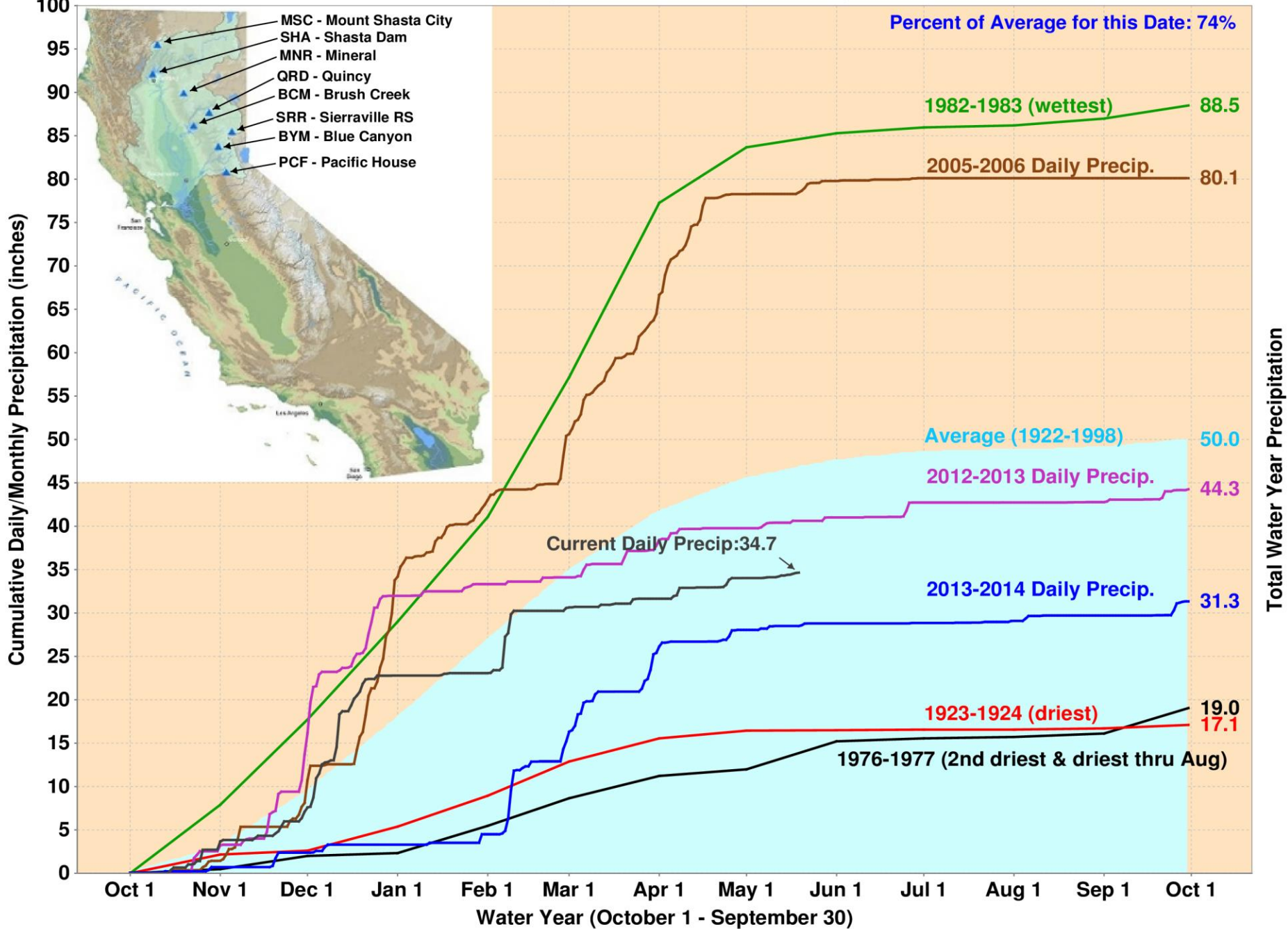
April 1<sup>st</sup> - 25% of Historic Low

California Snow Water Content, May 18, 2015, Percent of April 1 Average

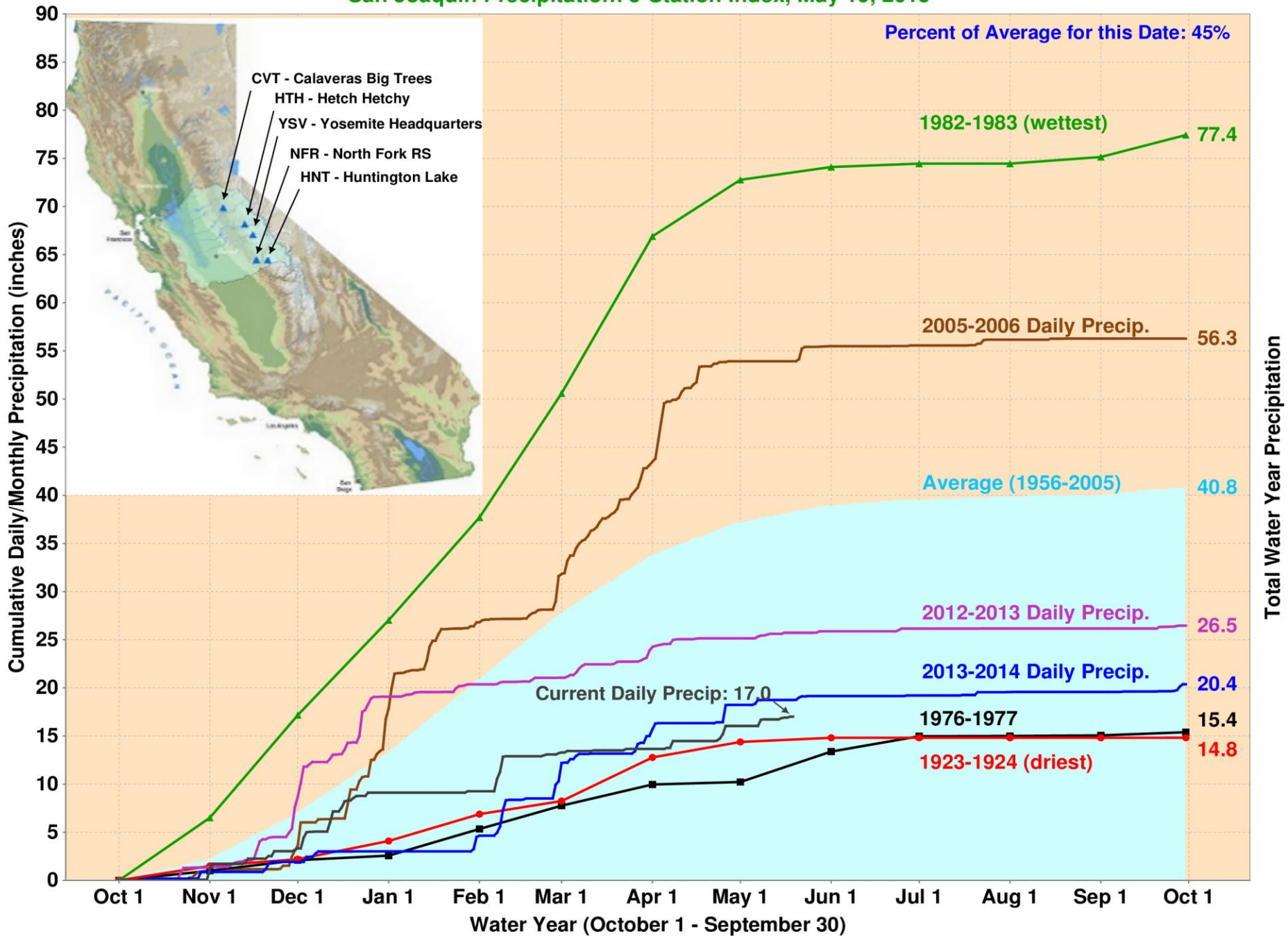


- No Snow Storage
- Minimum Runoff
- Loss of Cold Water

# Northern Sierra Precipitation: 8-Station Index, May 19, 2015



# San Joaquin Precipitation: 5-Station Index, May 19, 2015

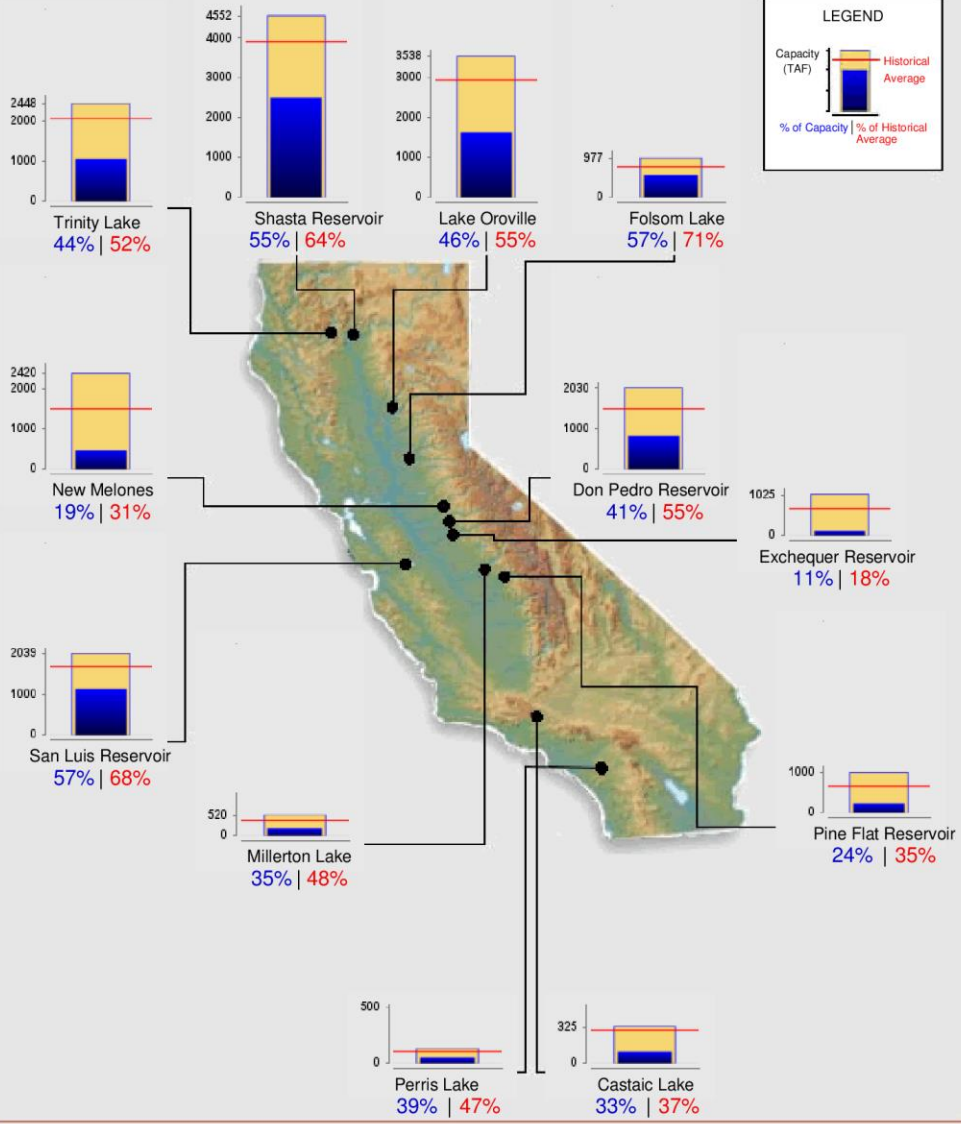




# Reservoir Conditions

Ending At Midnight - May 18, 2015

## CURRENT RESERVOIR CONDITIONS

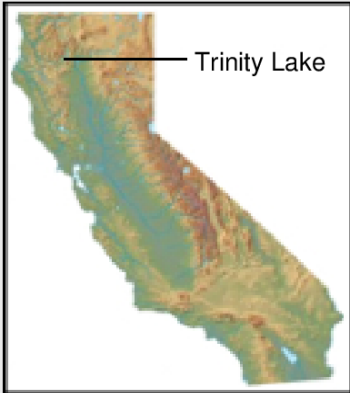


	% Cap	% Avg
<b>Trinity</b>	44	52
<b>Shasta</b>	55	64
<b>Oroville</b>	46	55
<b>Folsom</b>	57	71
<b>New Melones</b>	19	31
<b>San Luis</b>	57	68

T P R E P A R E D N E S S & R E S P O N S E



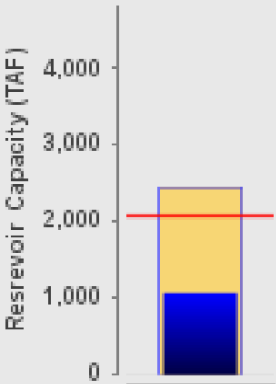
# Reservoir Conditions - Trinity Lake



Trinity Lake

## Trinity Lake Conditions

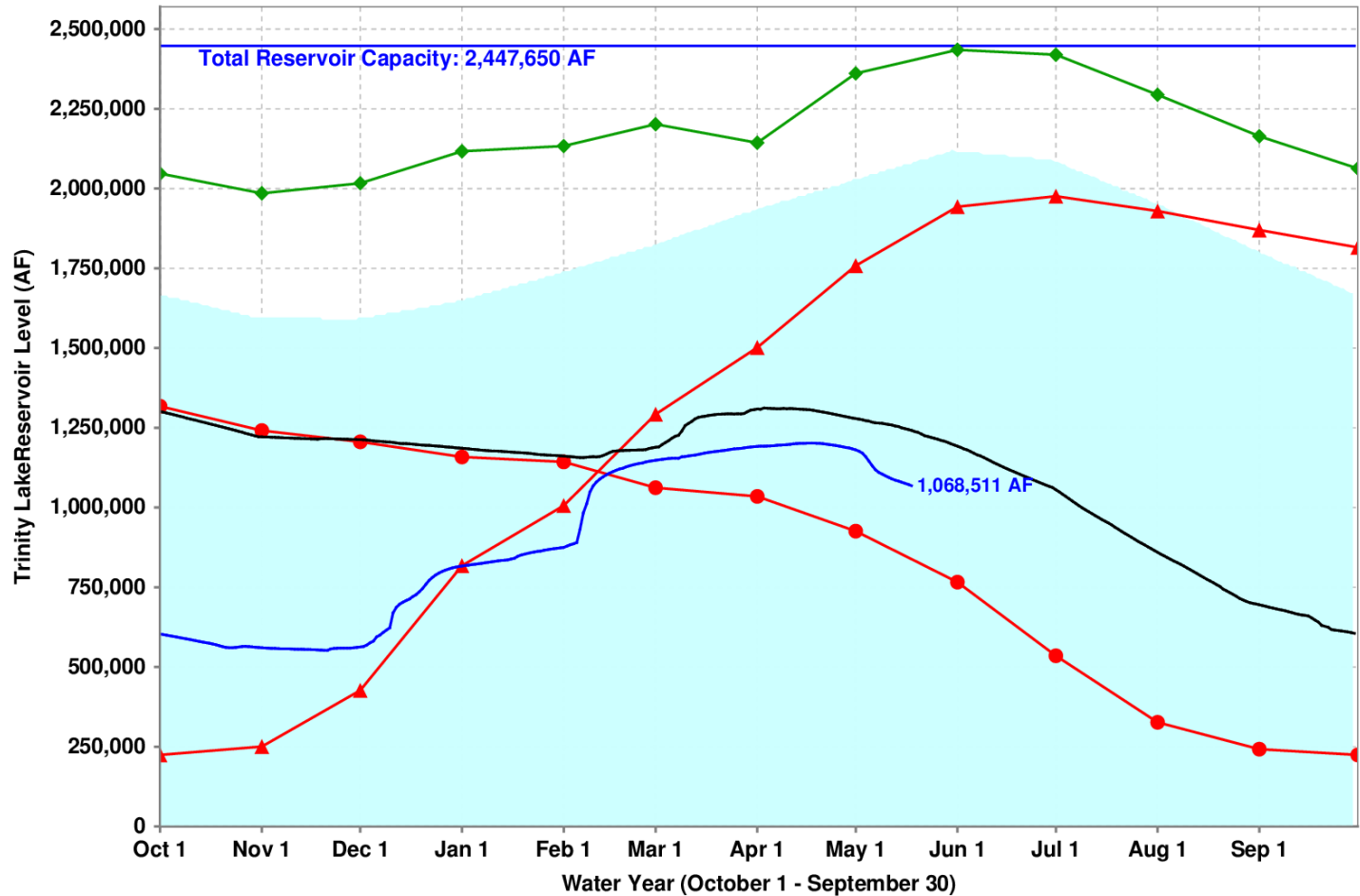
(as of Midnight - May 18, 2015)



Current Level: 1,068,511 AF

44% (Total Capacity) | 52% (Historical Avg.)

Trinity Lake Levels: Various Past Water Years and Current Water Year, Ending At Midnight May 18, 2015



■ Historical Average  
 — Total Reservoir Capacity  
 ● 1976-1977 (Driest)  
 ▲ 1977-1978  
 ◆ 1982-1983 (Wettest)  
 — 2013-2014  
— Current: 2014-2015



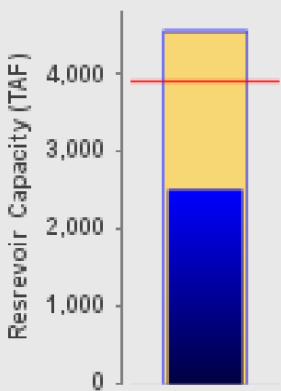


# Reservoir Conditions - Shasta Reservoir



## Lake Shasta Conditions

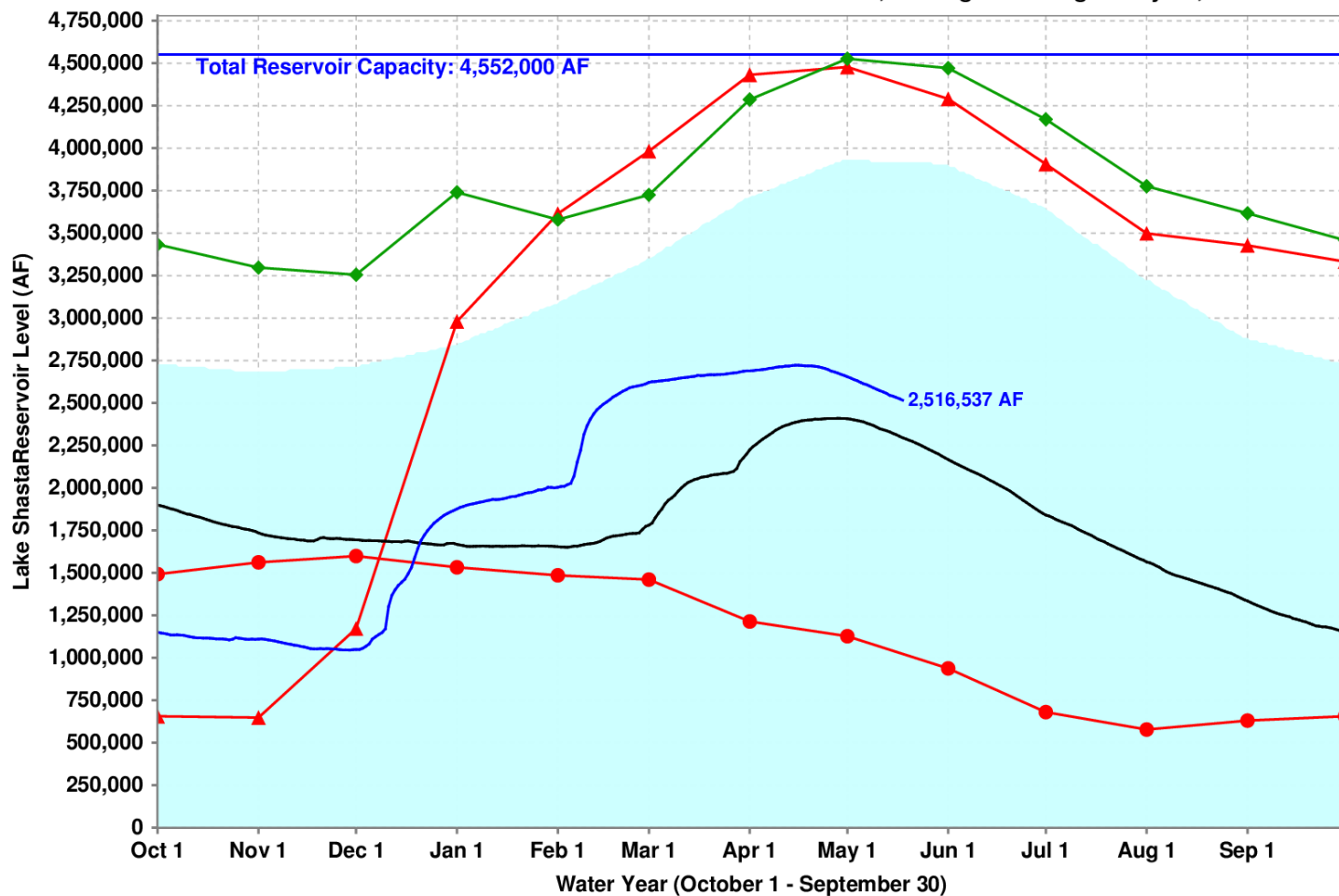
(as of Midnight - May 18, 2015)



Current Level: 2,516,537 AF

**55%** (Total Capacity) | **64%** (Historical Avg.)

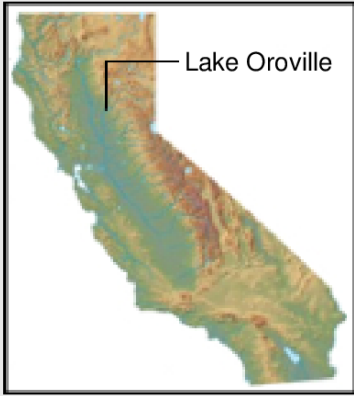
Lake Shasta Levels: Various Past Water Years and Current Water Year, Ending At Midnight May 18, 2015



■ Historical Average 
 — Total Reservoir Capacity 
 ● 1976-1977 (Driest) 
 ▲ 1977-1978 
 ◆ 1982-1983 (Wettest) 
 — 2013-2014 
 — Current: 2014-2015

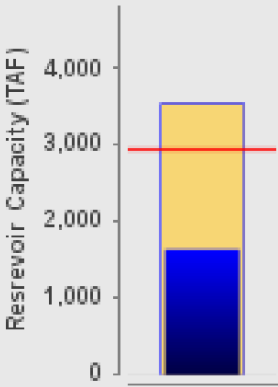


# Reservoir Conditions - Lake Oroville



## Lake Oroville Conditions

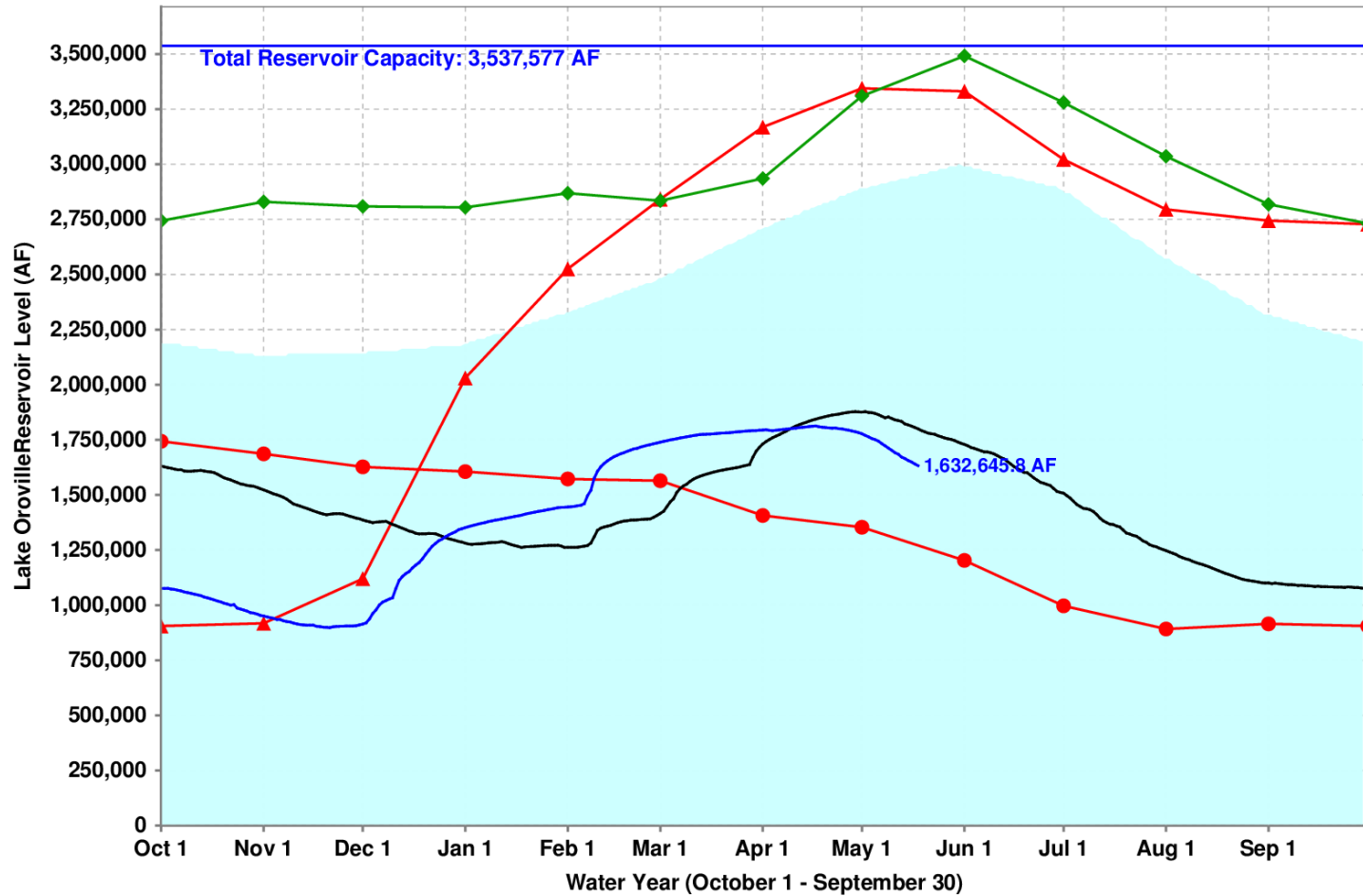
(as of Midnight - May 18, 2015)



Current Level: 1,632,645.8 AF

46% (Total Capacity) | 55% (Historical Avg.)

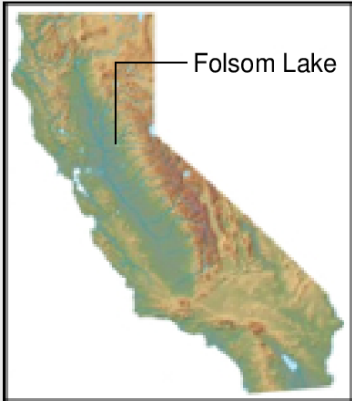
Lake Oroville Levels: Various Past Water Years and Current Water Year, Ending At Midnight May 18, 2015



■ Historical Average 
 — Total Reservoir Capacity 
 ● 1976-1977 (Driest) 
 ▲ 1977-1978 
 ◆ 1982-1983 (Wettest) 
 — 2013-2014 
 — Current: 2014-2015

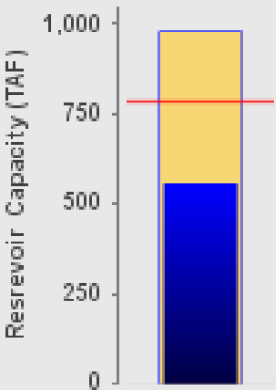


# Reservoir Conditions - Folsom Lake



## Folsom Lake Conditions

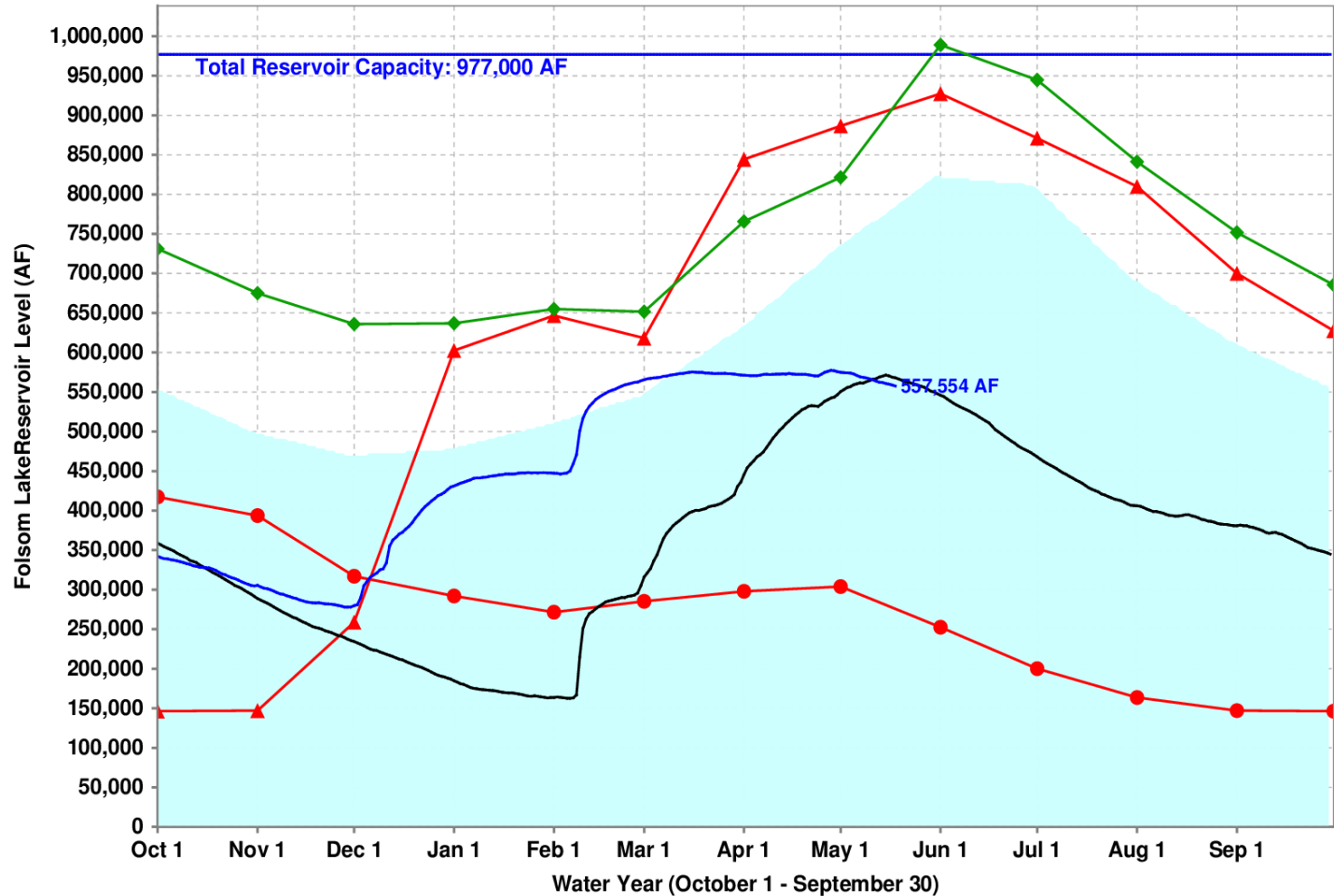
(as of Midnight - May 18, 2015)



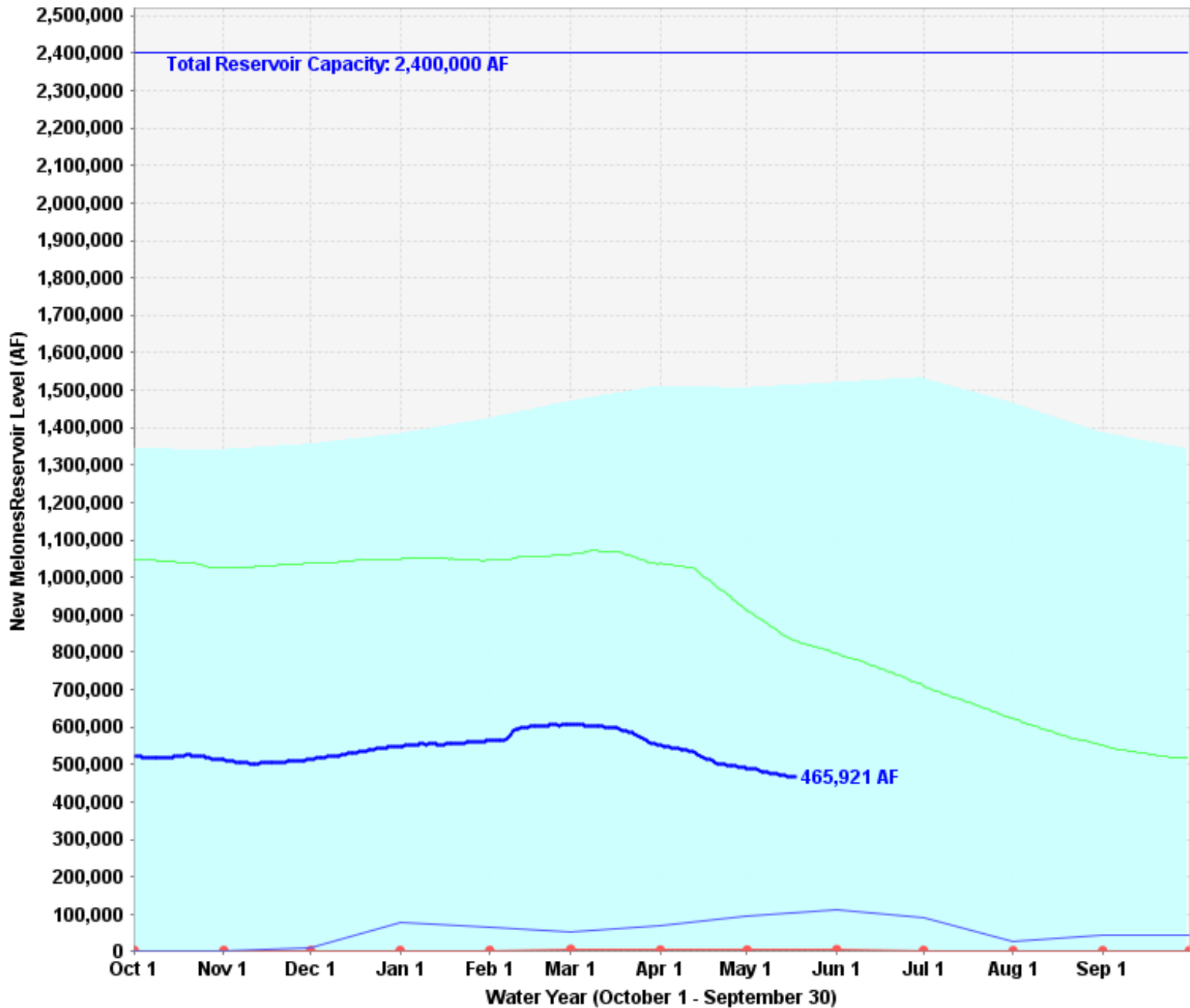
Current Level: 557,554 AF

57% (Total Capacity) | 71% (Historical Avg.)

Folsom Lake Levels: Various Past Water Years and Current Water Year, Ending At Midnight May 18, 2015



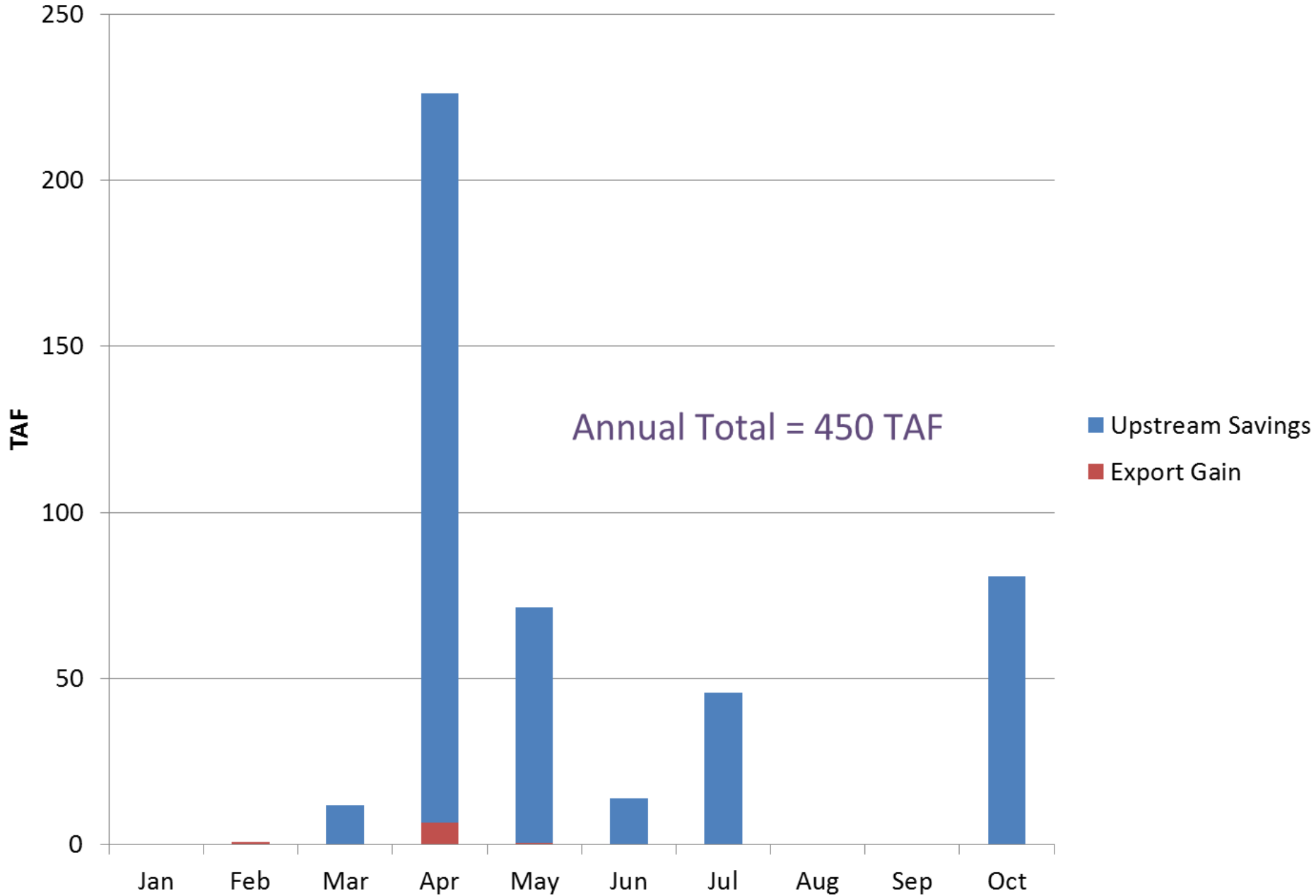
# New Melones Storage Levels



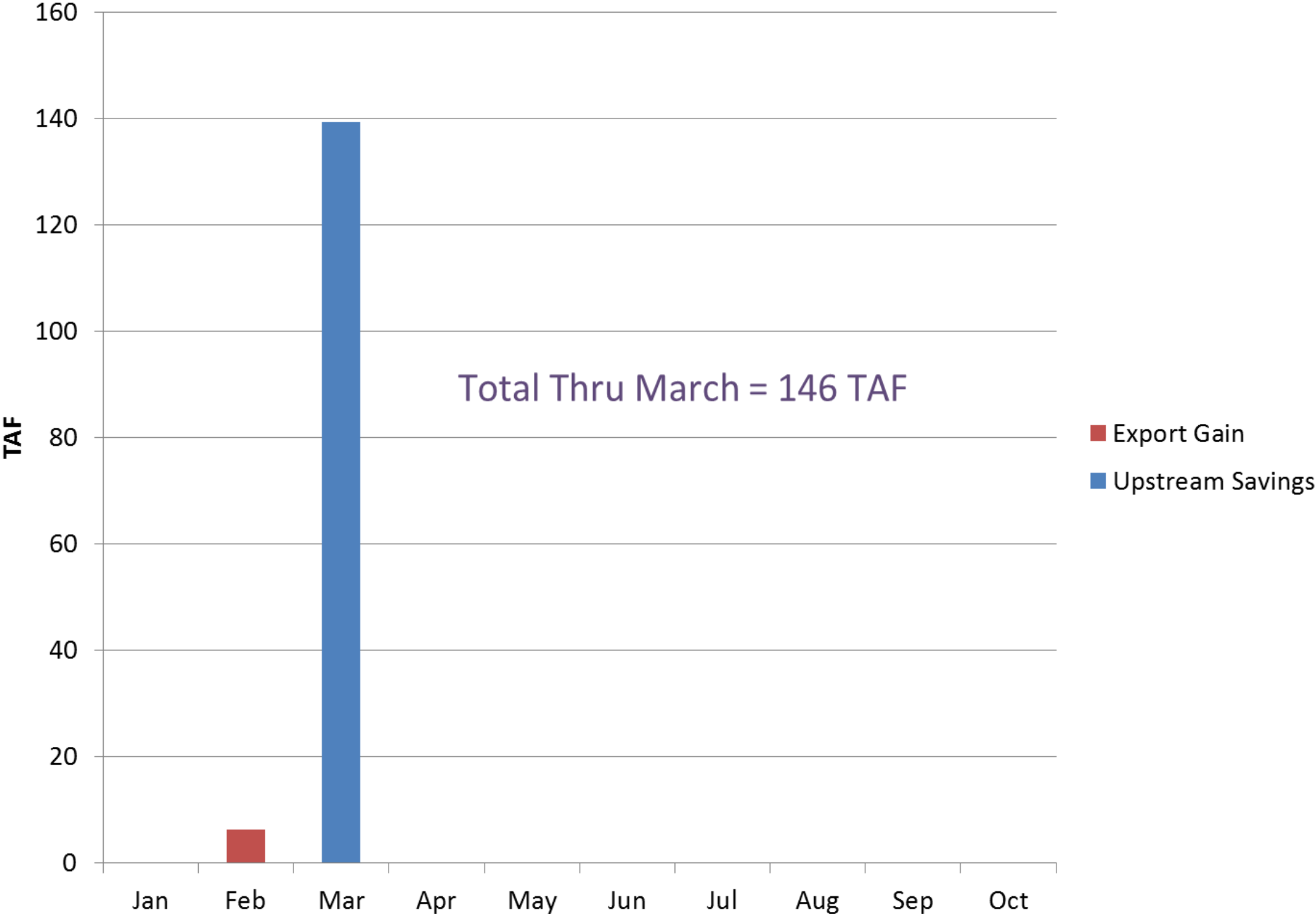
Historical Average — Total Reservoir Capacity — 1976-1977 (dry) — 1977-1978 — 2013-2014 — 2014-2015(current)

# Update on TUCP

# 2014 TUCP Conserved Water



# 2015 TUCP Conserved Water



# TUCP Renewal

- **NDOI: from 4000 cfs to 3000 cfs in July**
- **Emmaton to Three Mile Slough July 1 - Aug 15**
- **Rio Vista: from 3000+ cfs to 2500 cfs Sep - Nov**



# USBR Overview

# Water Transfers

# KEEP SAVING CA

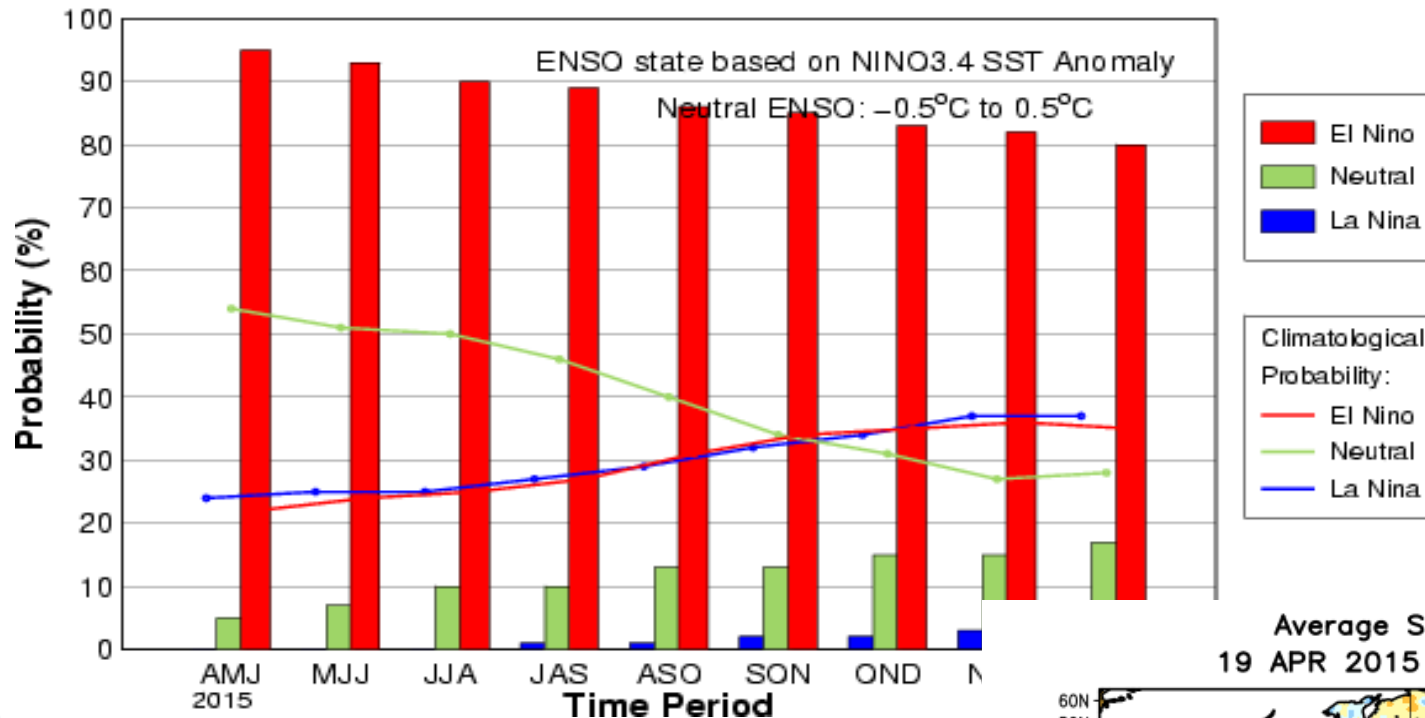




# CPC/IRI Probabilistic ENSO Outlook

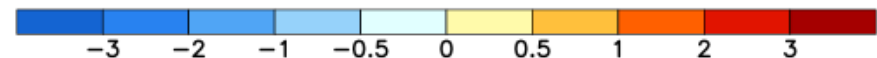
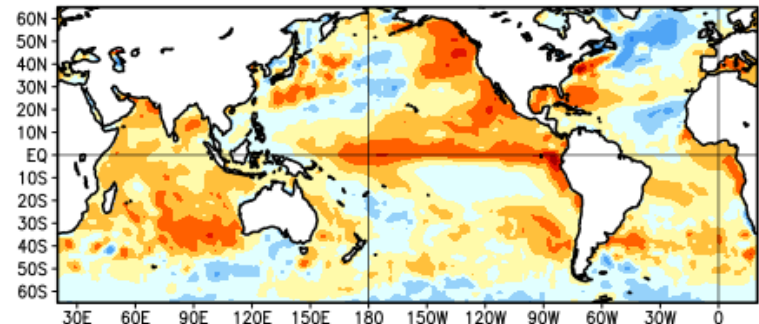
The chance of El Niño is approximately 80-90% through 2015.

Early-May CPC/IRI Consensus Probabilistic ENSO Forecast



Wet  
Or  
Dry?

Average SST Anomalies  
19 APR 2015 – 16 MAY 2015



Updated: May 14, 2015

D R O U G