

Water Supply Board Briefing

Water Operations Department

December 8, 2015

Water Supply Briefing

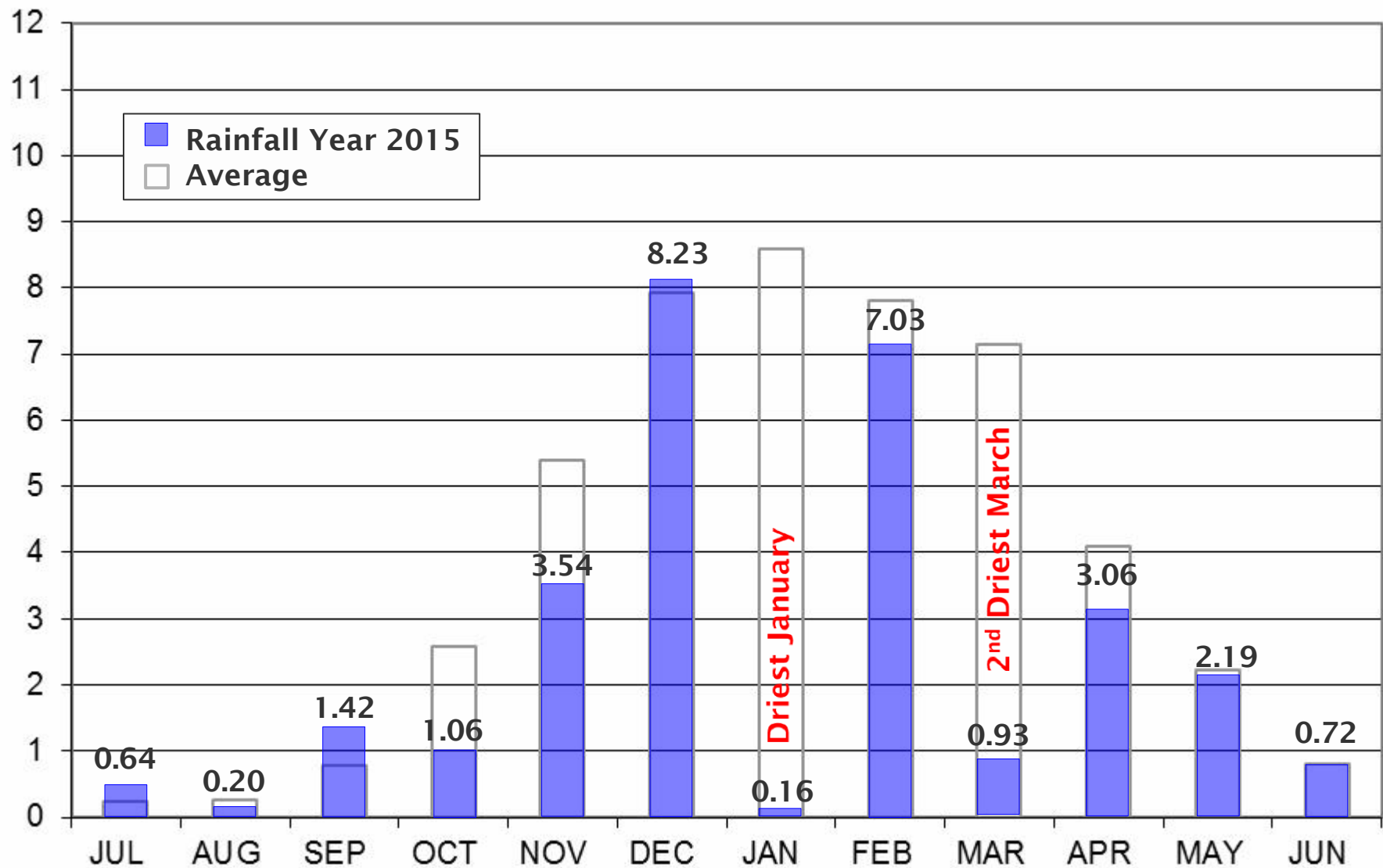


- Water Year 2015 Review
- 2015 Drought Operations
- Water Year 2016
 - Current Water Supply
 - Water Supply Projections

Water Year 2015 Review

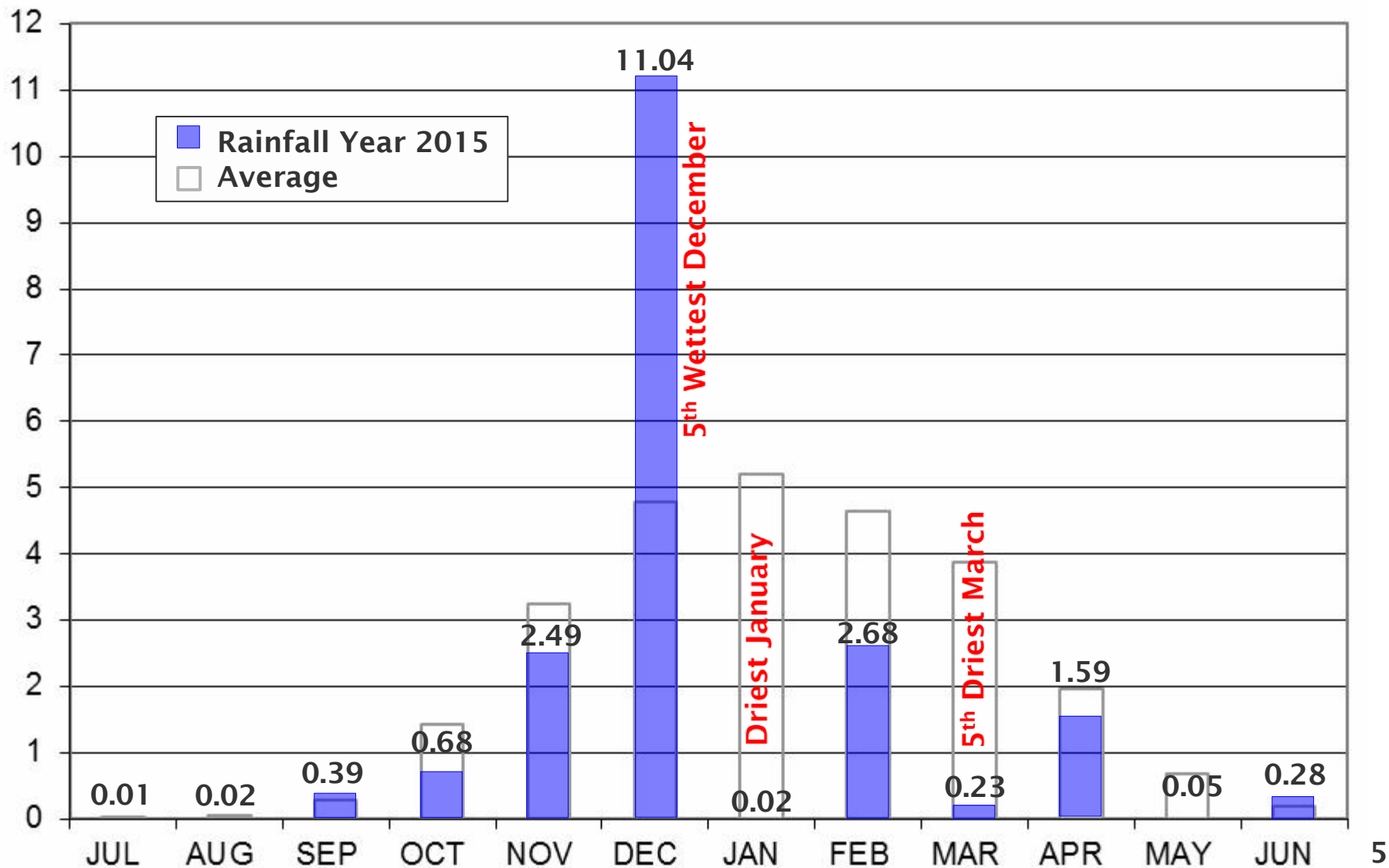
Water Year 2015 Review

Mokelumne Precipitation



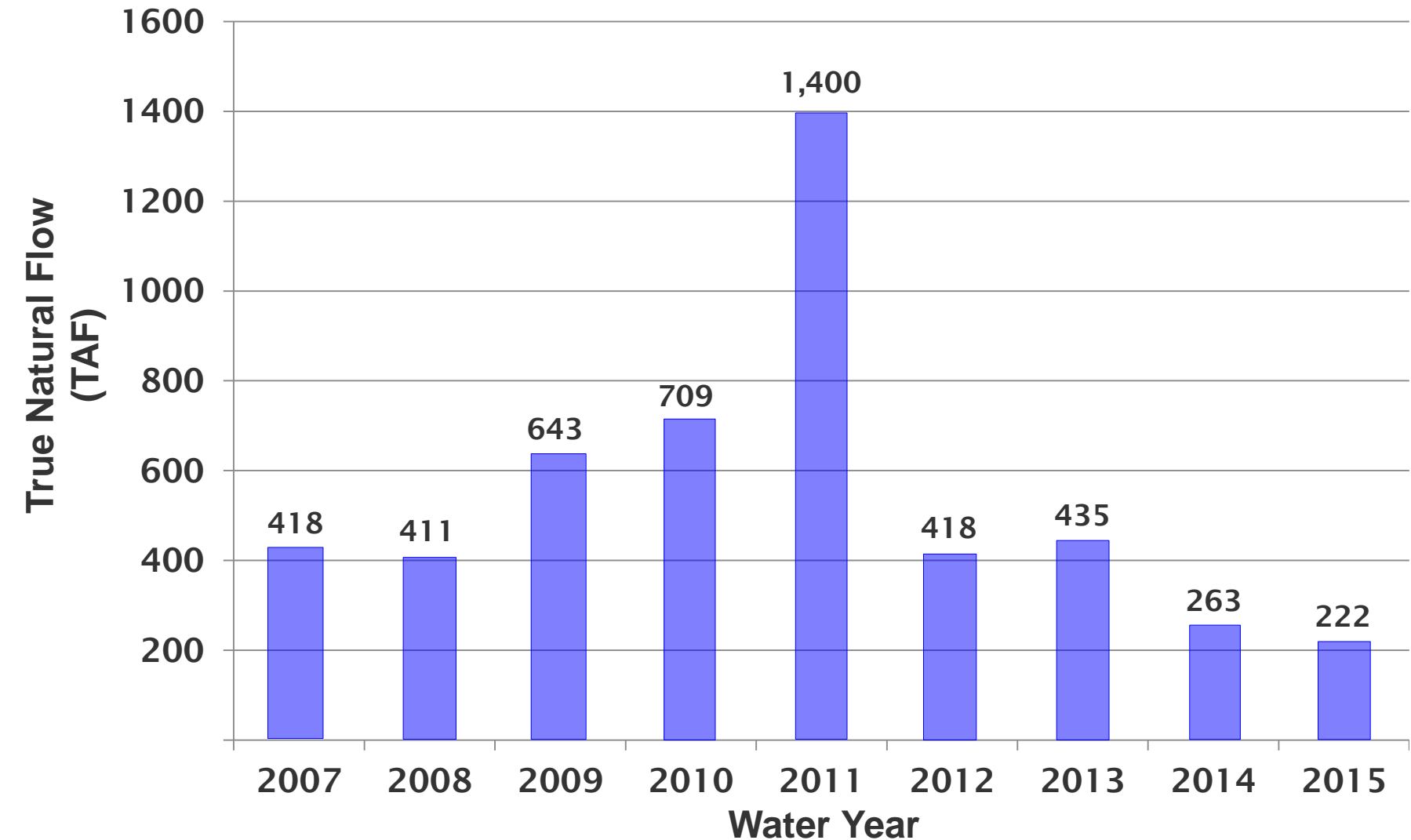
Water Year 2015 Review

East Bay Precipitation



Water Year 2015 Review

Mokelumne True Natural Flow



Water Year 2015 Review

Precipitation & Runoff



Mokelumne River Watershed

- 7th driest precipitation on record (60% of avg)
- 3rd driest runoff on record (31% of avg)

East Bay

- 18th driest precipitation on record (73% of avg)



Water Year 2015 Review

Storage



Carryover Storage (September 30, 2015)		Percent of Average	Percent of Capacity
Pardee	139,330 AF	76%	70%
Camanche	99,780 AF	37%	24%
East Bay	113,810 AF	97%	75%
Total System	352,920 AF	62%	46%

2015 Drought Operations

Supplemental Supply

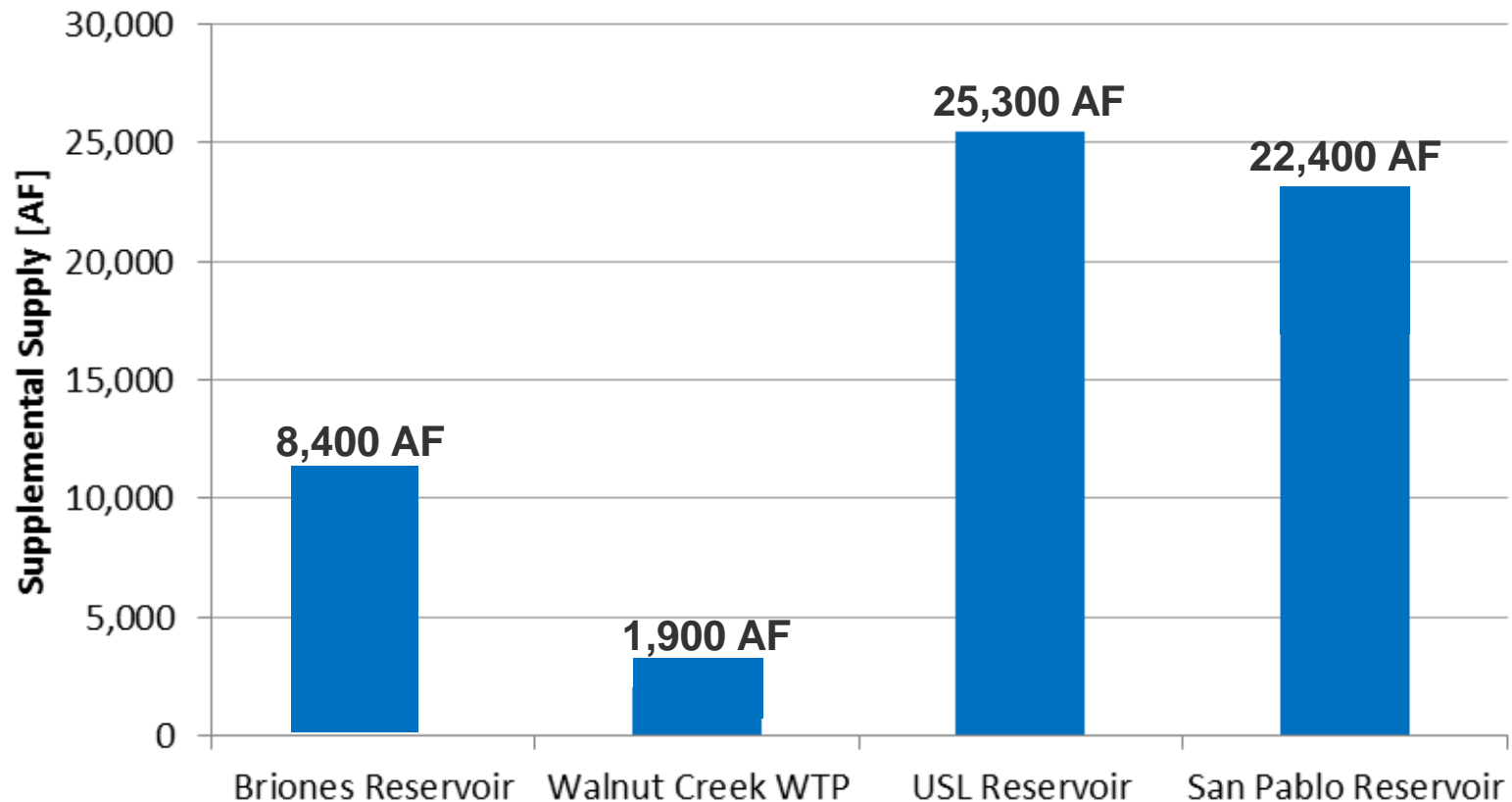
CVP & Transfer Water Supplies to East Bay



December 21, 2015

Estimated Total = 58,000 AF

Total = 55,400 AF

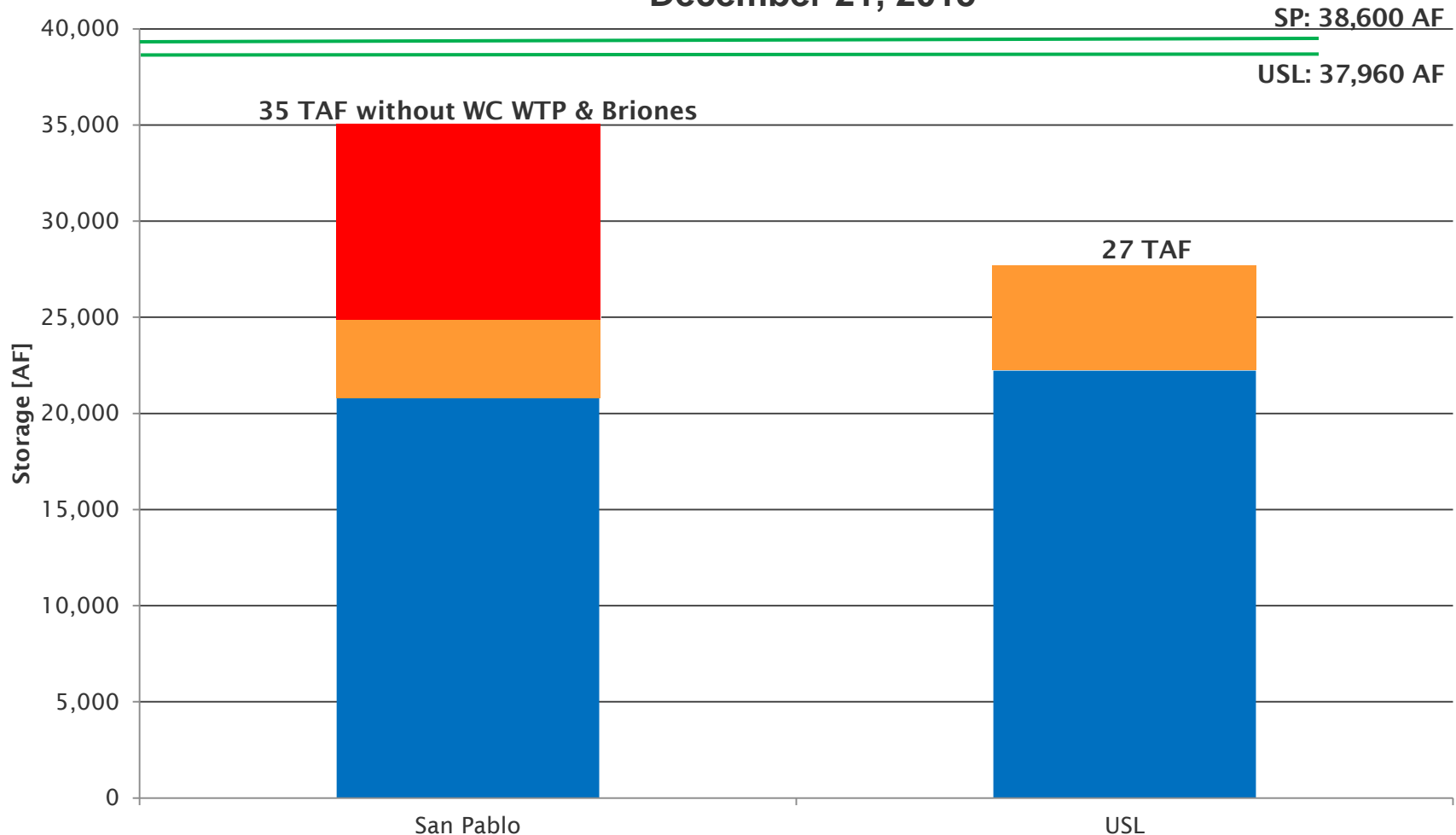


Supplemental Supply

Reservoir Storage and Space to Spill

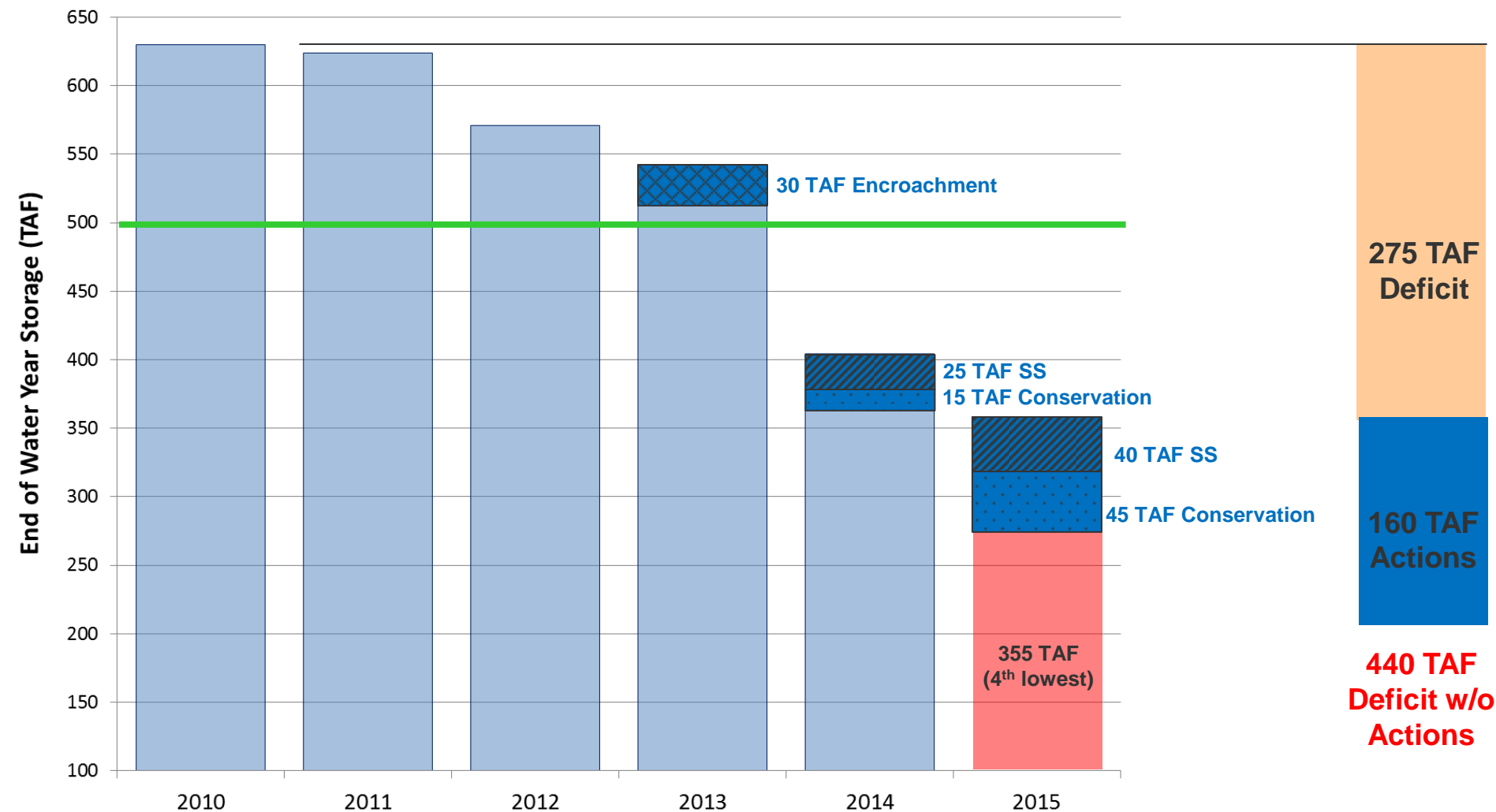


December 21, 2015



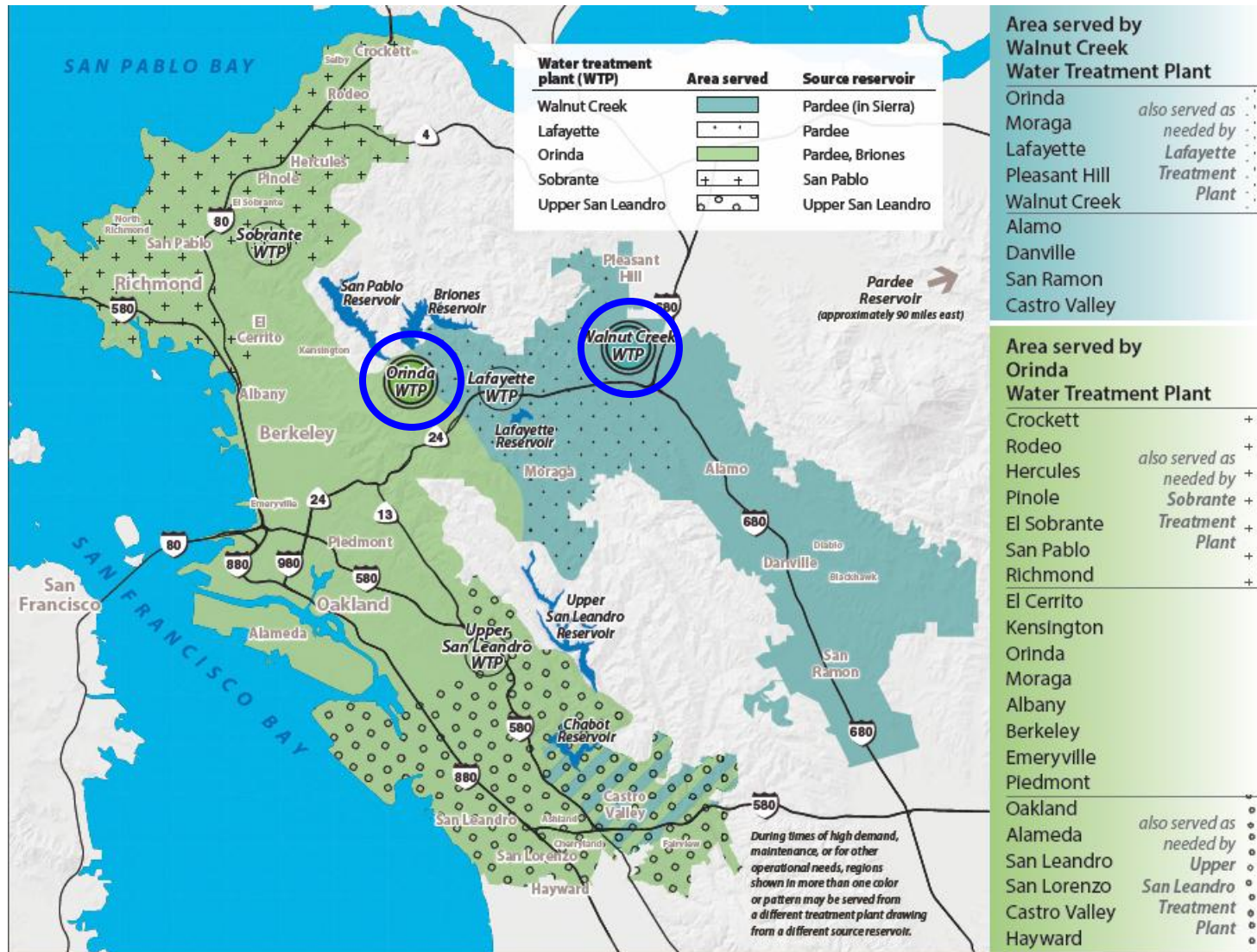
Water Supply

Decline of End of September Storage



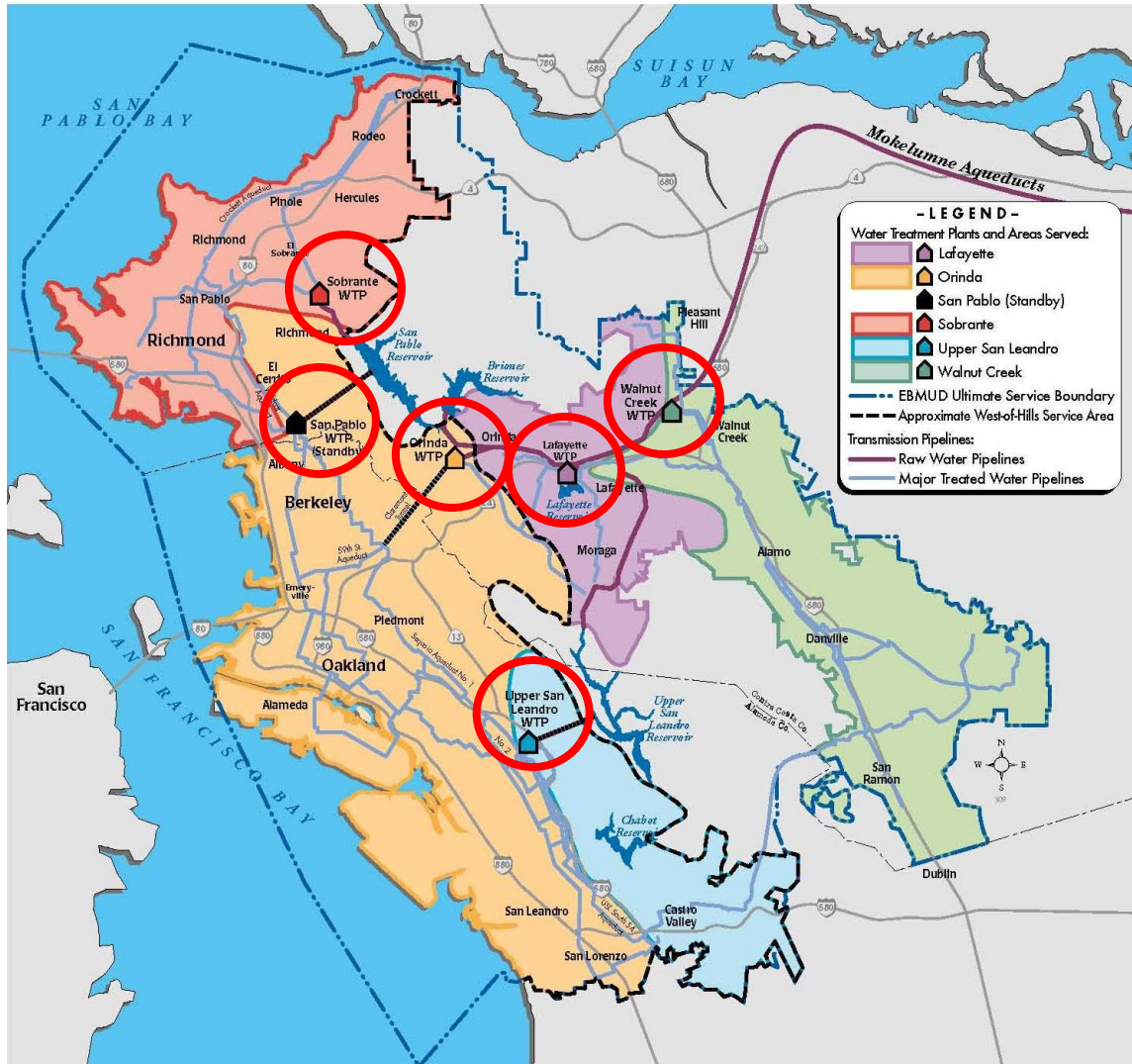
2015 Drought Operations

Configuration in Typical Non-Drought Winter



2015 Drought Operations

Service Area Configuration in Winter 2015-2016

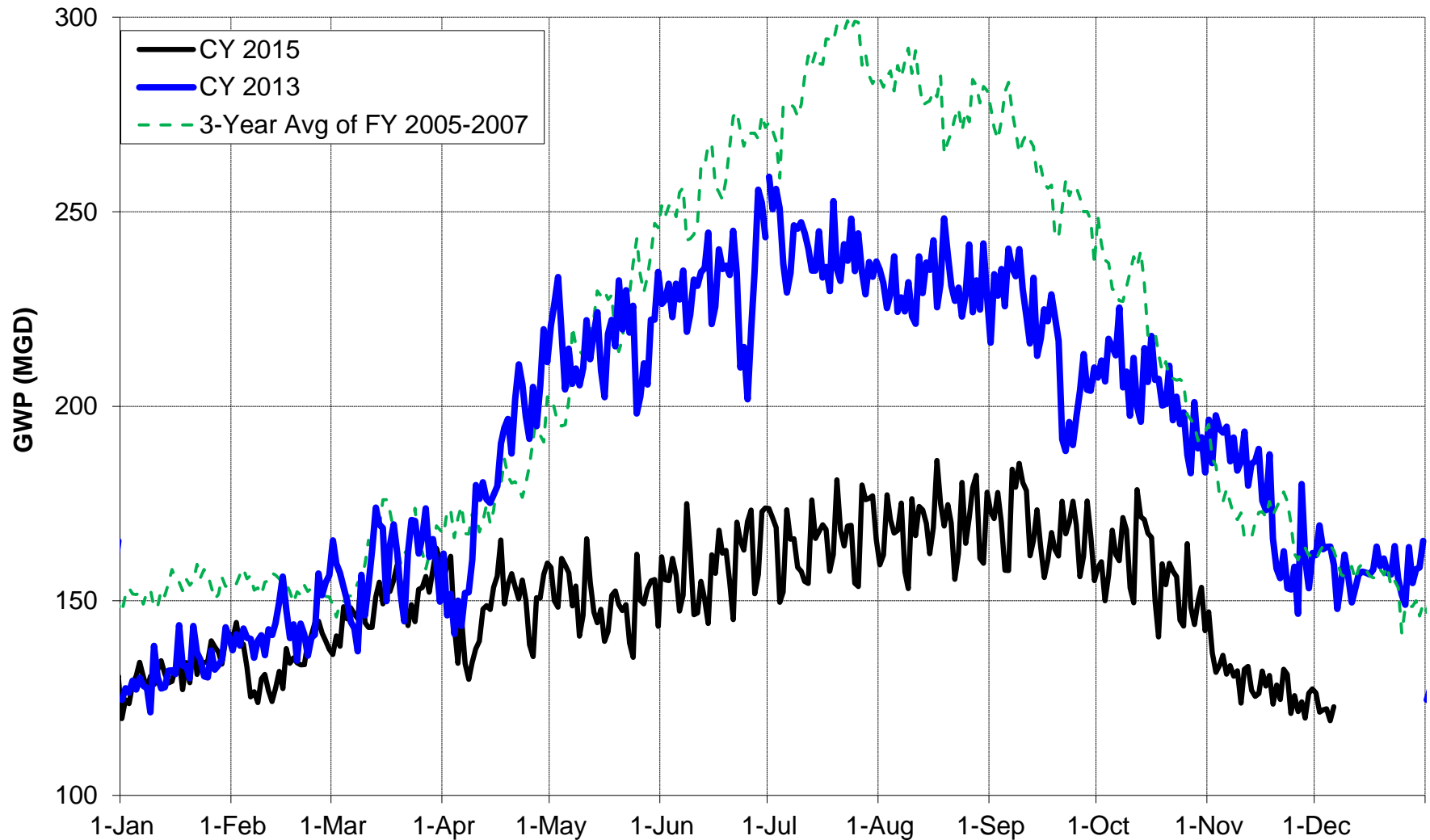


Sacramento River Water throughout Service Area

- Sobrante WTP
- Upper San Leandro WTP
- Walnut Creek WTP
- San Pablo WTP
- Orinda WTP
- Lafayette WTP

2015 Drought Operations

Gross Water Production



WY15 Drought Operations

Customer Demand Savings



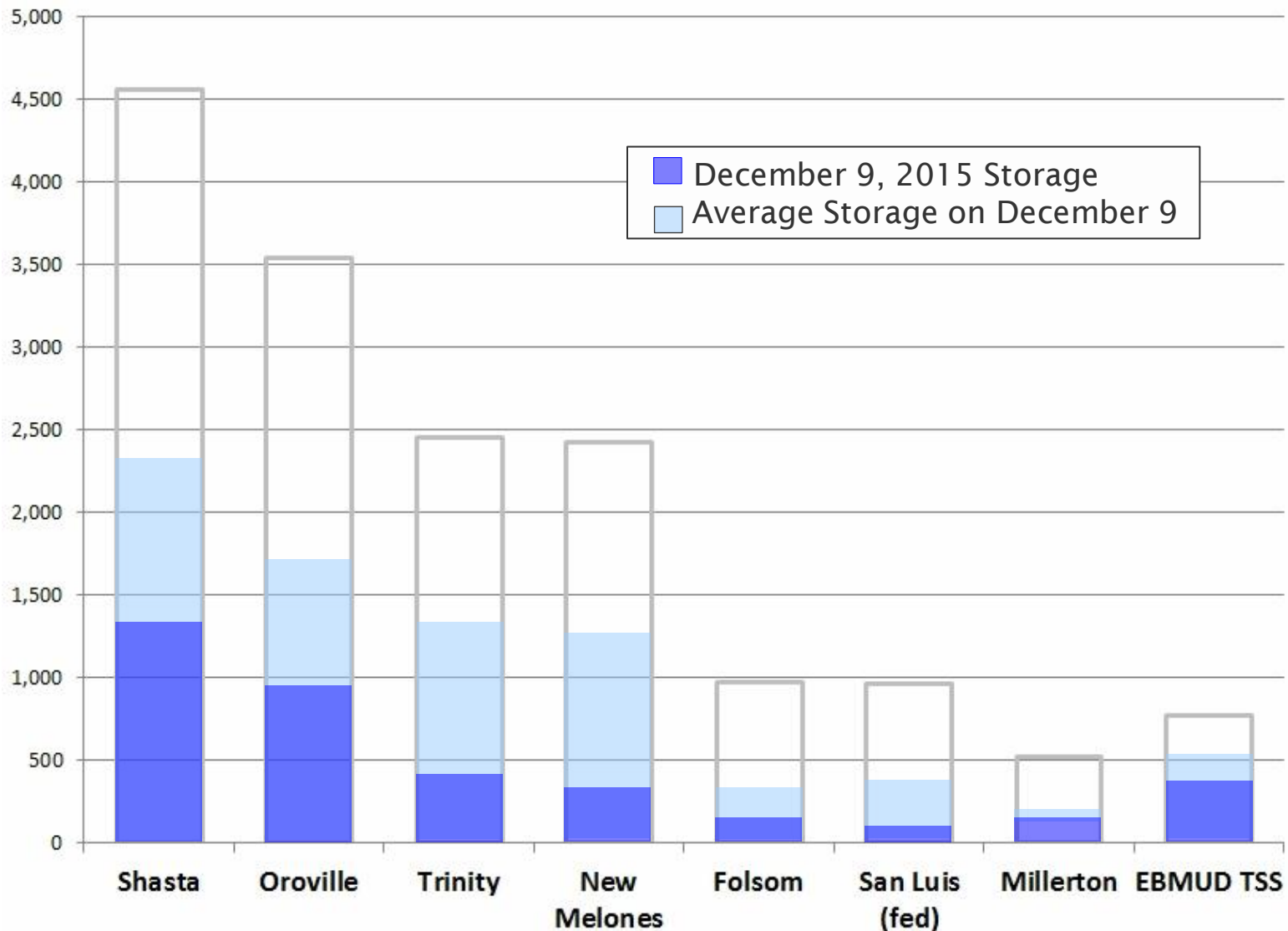
Calendar Year	Savings Rate (2013 Baseline)	Savings Rate (Avg of 2005-2007 Baseline)
2014	13%	20%
2015	22%	28%

Water Year 2016

Current Water Supply

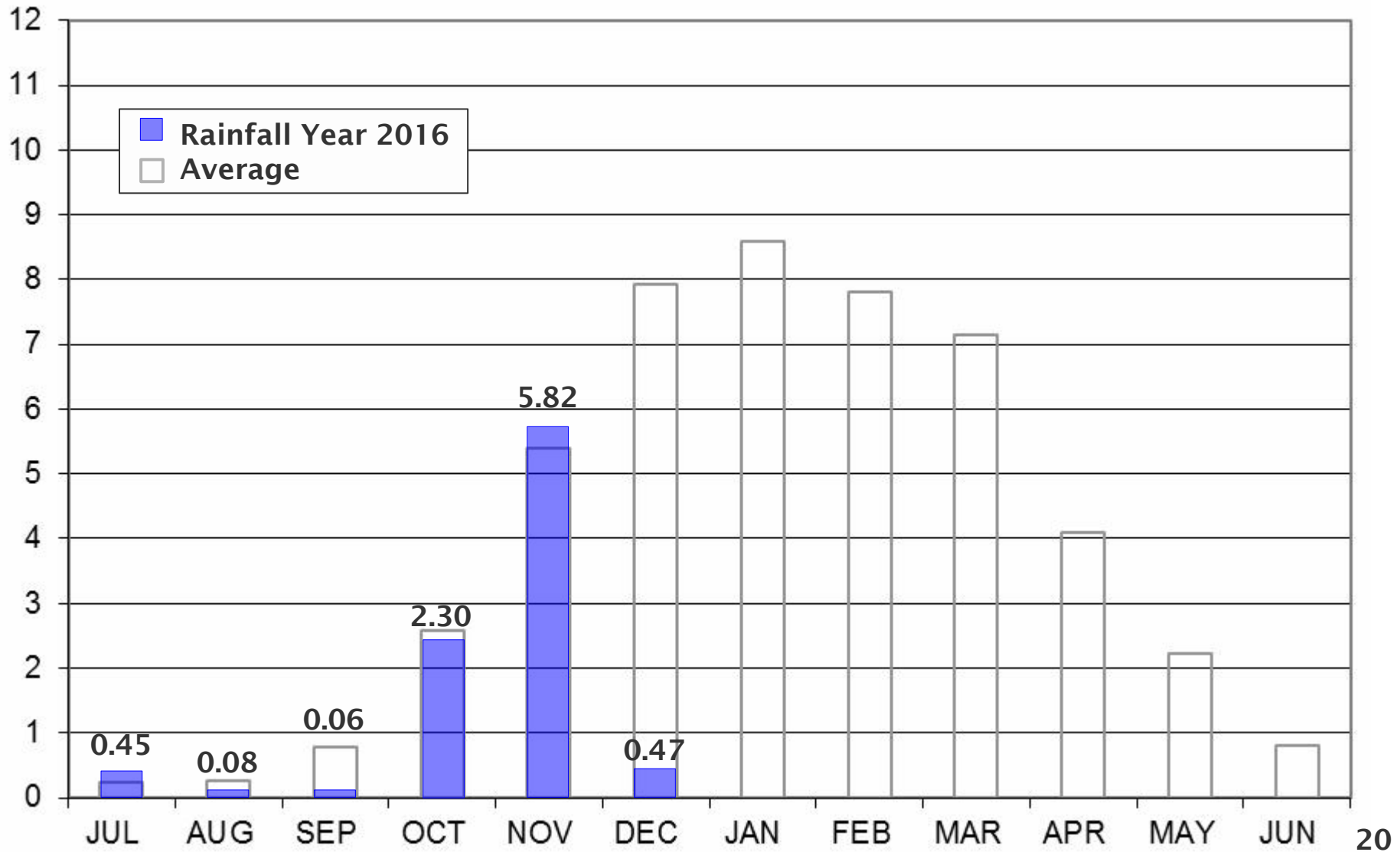
California Water Supply

Reservoir Storage – Dec 8



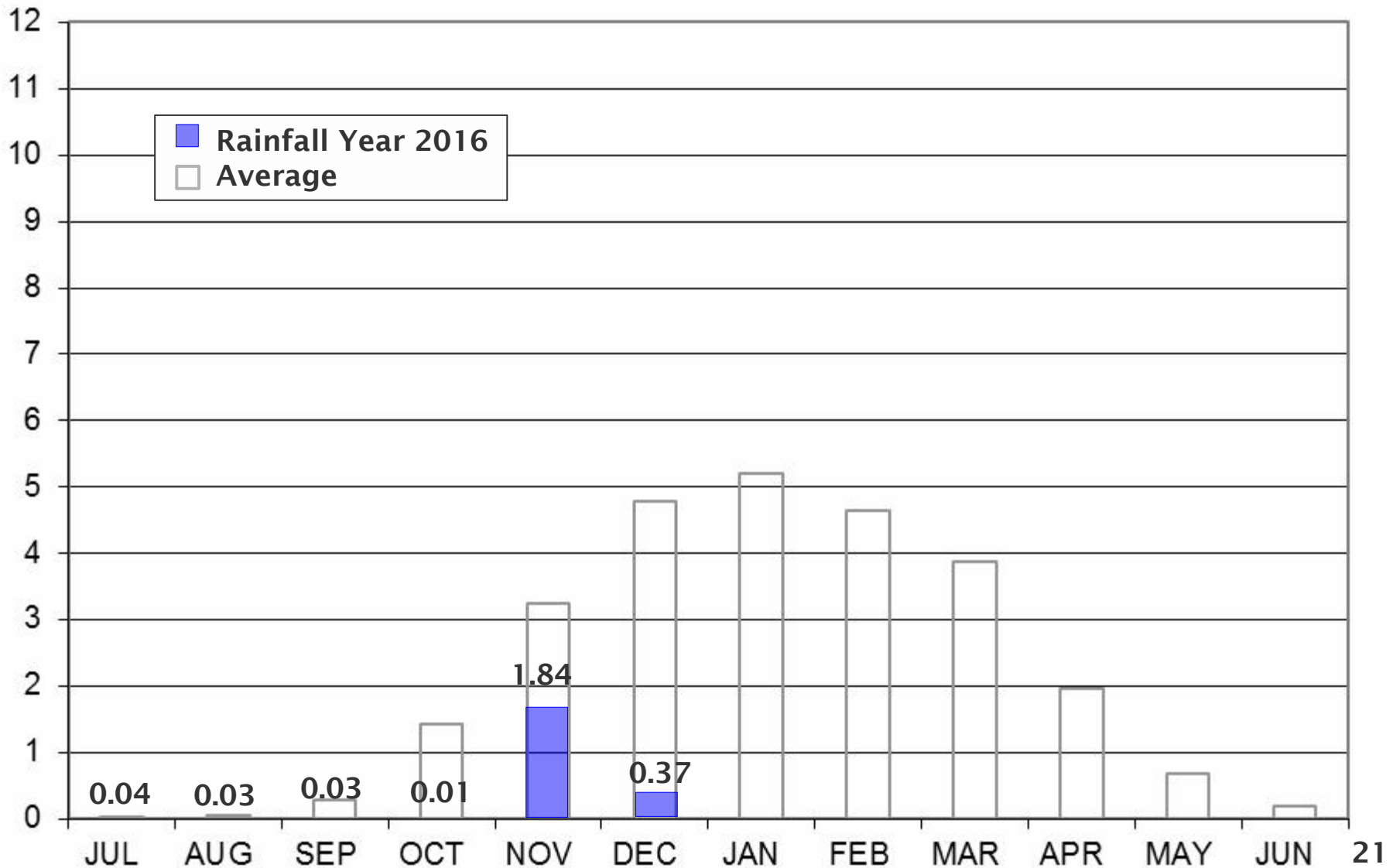
Current Water Supply

Mokelumne Precipitation



Current Water Supply

East Bay Precipitation



Current Water Supply

Precipitation & Snow



As of 12/7/15	Cumulative Precipitation	% of Average
East Bay		
East Bay Watershed	2.41"	40%
Mokelumne Basin		
4-Station Average	9.45"	87%
Caples Lake Snow Depth	19"	112%
Caples Lake Snow Water Content	2.60"	73%

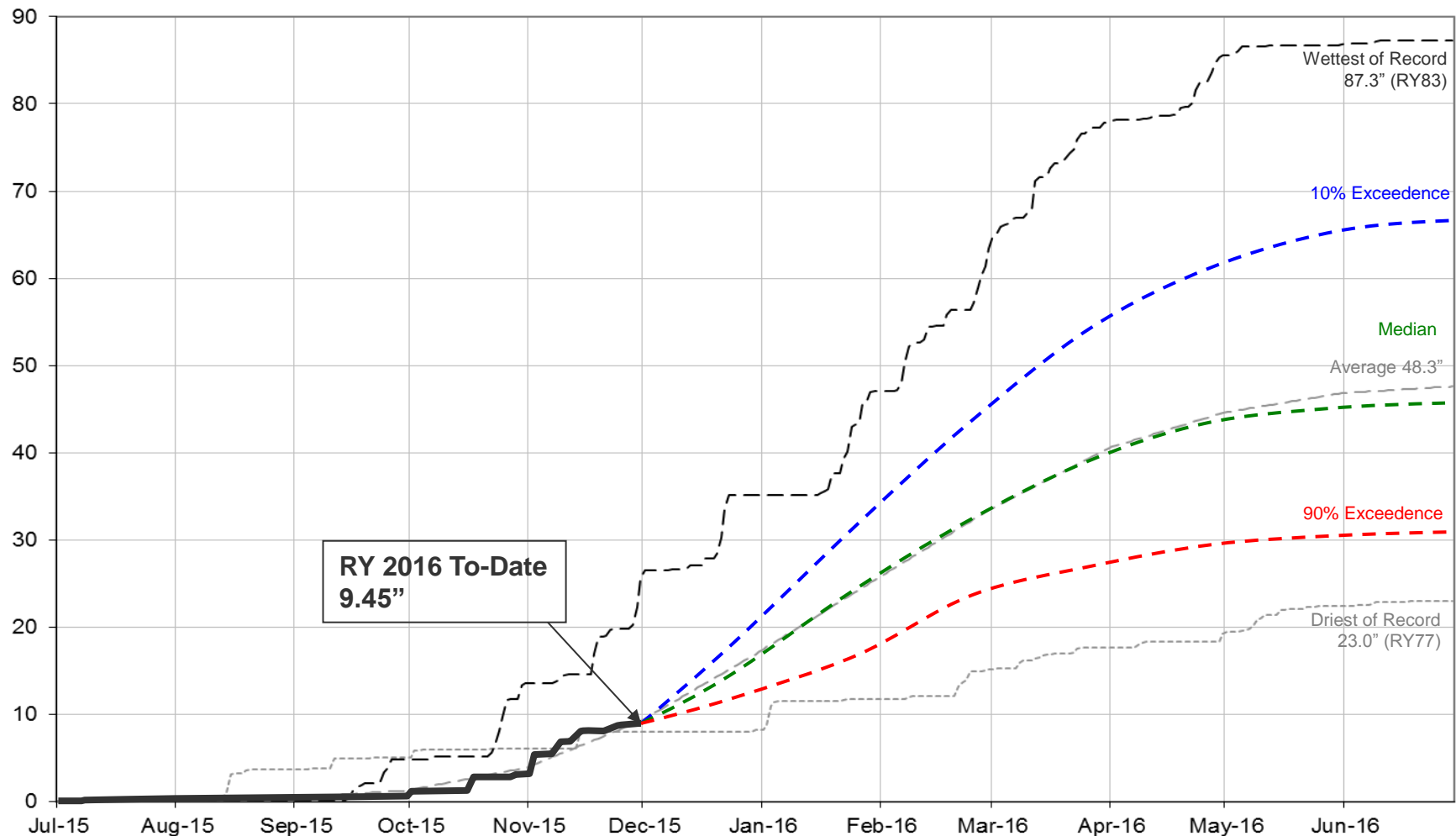
Water Supply Projections

Water Supply Projections

Mokelumne Precipitation Rainfall Year 2016



Mokelumne 4-Station Average Precipitation (in)
Rainfall Year 2016 Projection



Water Supply Projections

(Runoff Projections as of December 1, 2015)



Forecast	Annual Runoff	Total System Storage (on Sept 30, 2016)
90% Exceedence (9 of 10 years are wetter)	340 TAF	340 TAF
50% Exceedence (5 of 10 years are wetter)	670 TAF	585 TAF
10% Exceedence (1 of 10 years is wetter)	1,140 TAF	630 TAF
Average Year	745 TAF	630 TAF

Water Year 2016

As of December 7, 2015



- Mokelumne River basin runoff is 9 TAF
- Projected end of water year storage is 340– 630 TAF
- Mokelumne River watershed season to date precipitation is 87% of average
- East Bay watershed season to date precipitation is 40% of average
- Precipitation accumulation season – 24% complete (76% remaining)

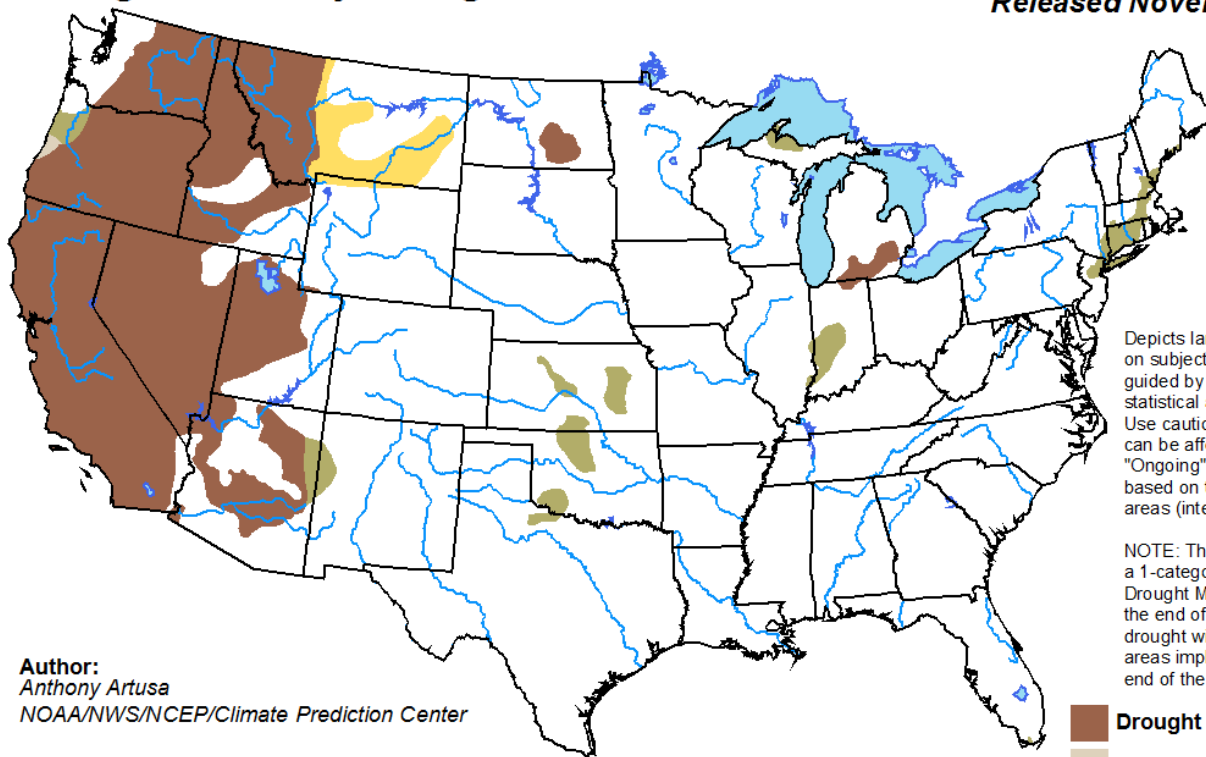
Water Supply Projections

National Weather Service Climate Prediction Center



U.S. Monthly Drought Outlook Drought Tendency During the Valid Period





Valid for December 2015
Released November 30, 2015

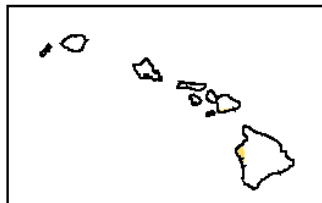
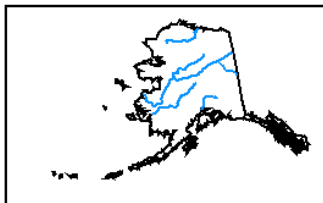


Author:
Anthony Artusa
NOAA/NWS/NCEP/Climate Prediction Center

Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

-  Drought persists
-  Drought remains but improves
-  Drought removal likely
-  Drought development likely



<http://go.usa.gov/3eZGd>

Hoping for a Snowy Winter!

