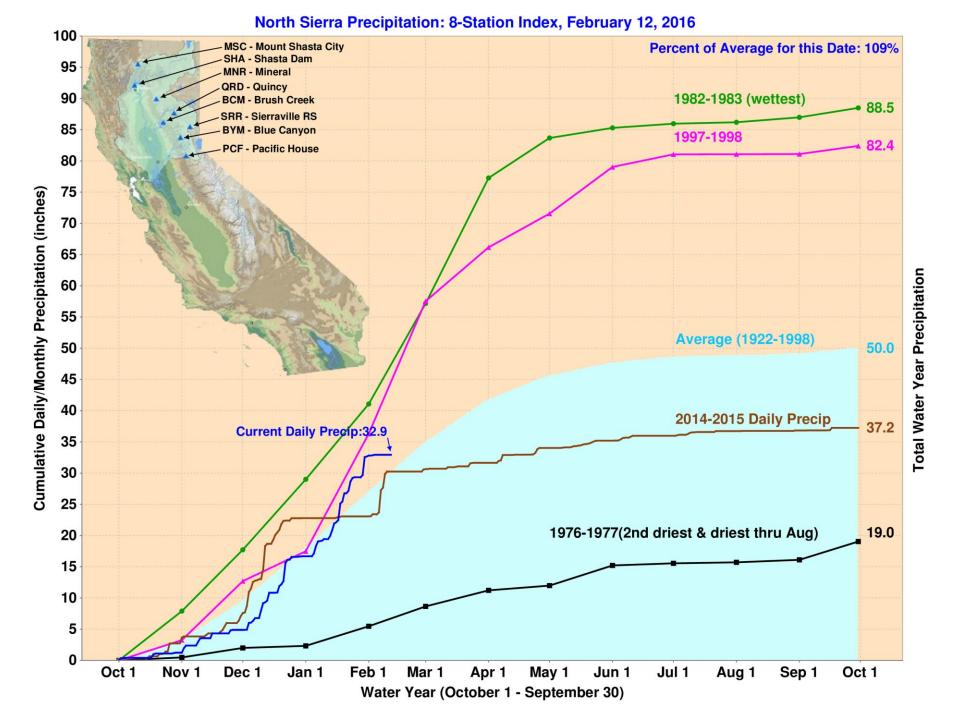
Project Operations Update State Water Resource Control Board February 16, 2016

DROUGHT PREPAREDNESS & RESPONSE

FOF CALIFO

Overview of Current Hydrology

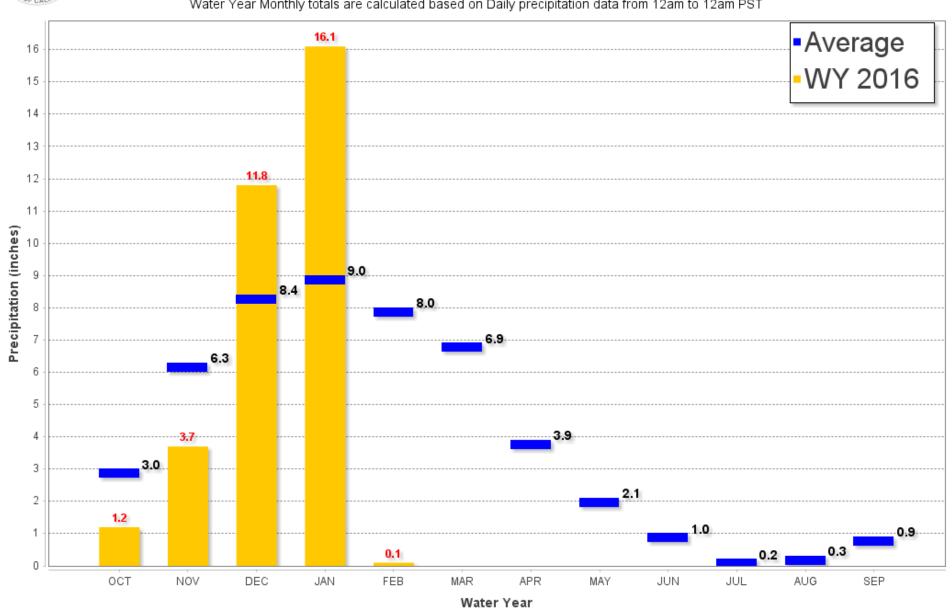


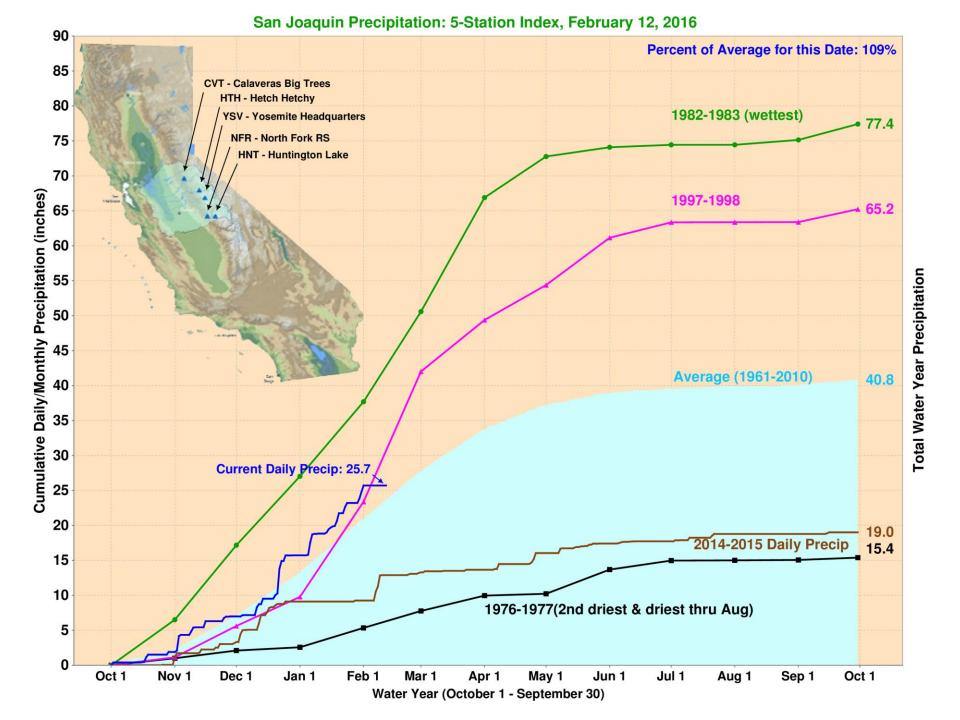


Northern Sierra 8-Station

Precipitation Index for Water Year 2016 - Updated on February 12, 2016 08:45 AM

Note: Monthly totals may not add up to seasonal total because of rounding Water Year Monthly totals are calculated based on Daily precipitation data from 12am to 12am PST



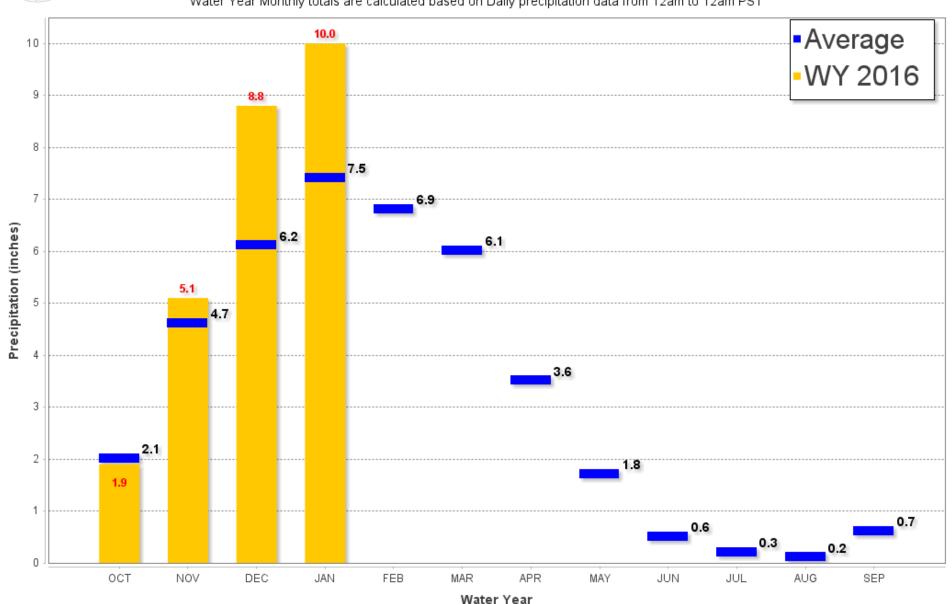


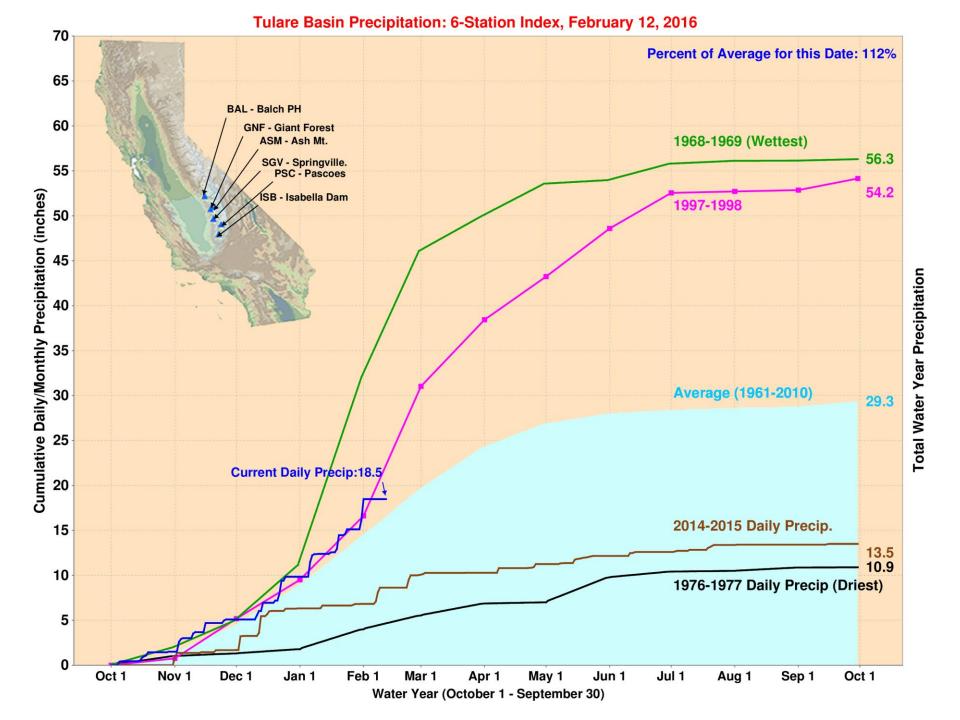


San Joaquin 5-Station

Precipitation Index for Water Year 2016 - Updated on February 12, 2016 08:45 AM

Note: Monthly totals may not add up to seasonal total because of rounding Water Year Monthly totals are calculated based on Daily precipitation data from 12am to 12am PST



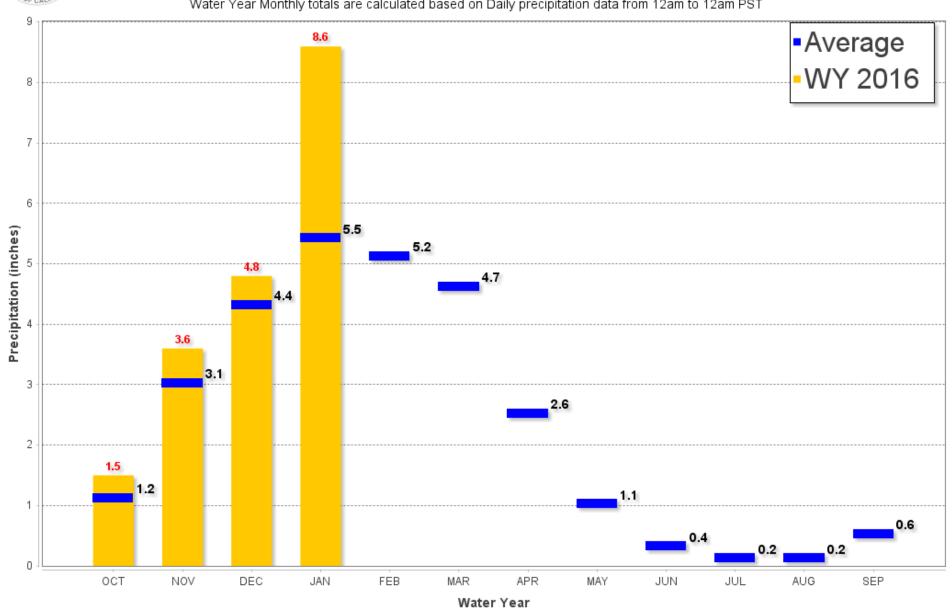




Tulare Basin 6-Station

Precipitation Index for Water Year 2016 - Updated on February 12, 2016 08:45 AM

Note: Monthly totals may not add up to seasonal total because of rounding Water Year Monthly totals are calculated based on Daily precipitation data from 12am to 12am PST



6-Day Forecast Precipitation (Inches) Valid: Mon Feb 15, 2016 at 04 AM PST to Sun Feb 21, 2016 at 04 AM PST 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 0.5 1.0 6.5 00 Klamath Falls Eureka (Elko Redding 395 80 101 Reno 5 50 80 Sacramento Tonopah San Francisco 95 Fresno 😘 395 Las Vegas 99 101 15 5 40 Santa Barbara Los Angeles 10 San Diego



National Weather Service CNRFC - Sacramento, CA

Created: 02/15/2016 08:31 AM PST

Follow Us:

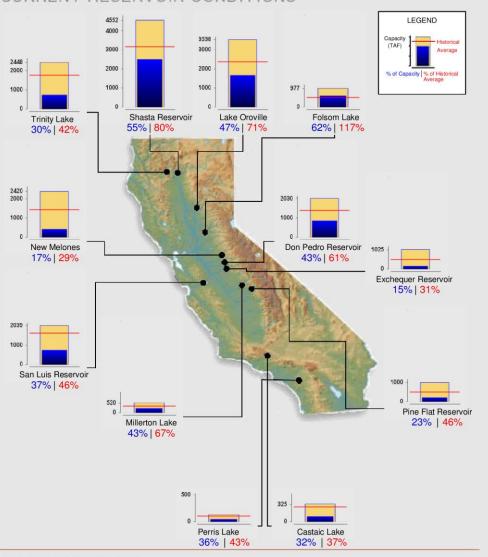




Reservoir Conditions

Ending At Midnight - February 11, 2016

CURRENT RESERVOIR CONDITIONS

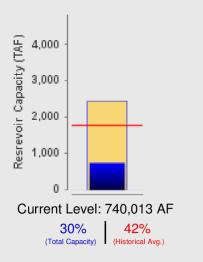


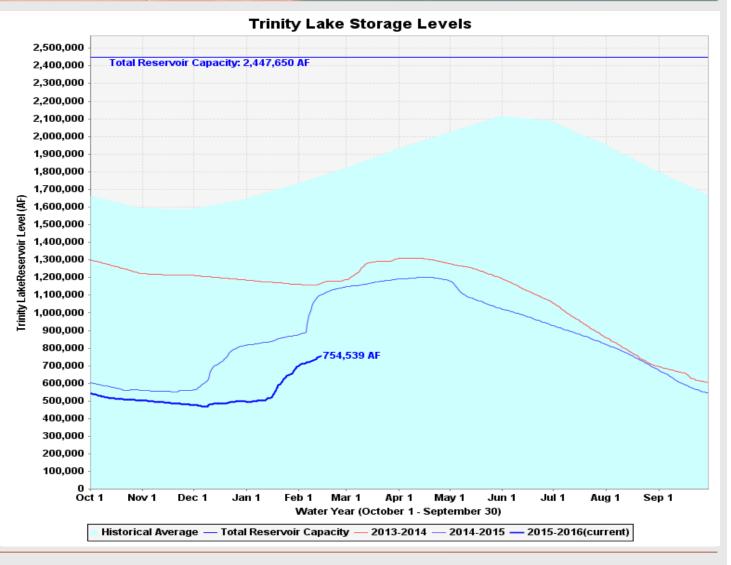


Reservoir Conditions - Trinity Lake



Trinity Lake Conditions



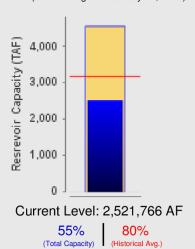


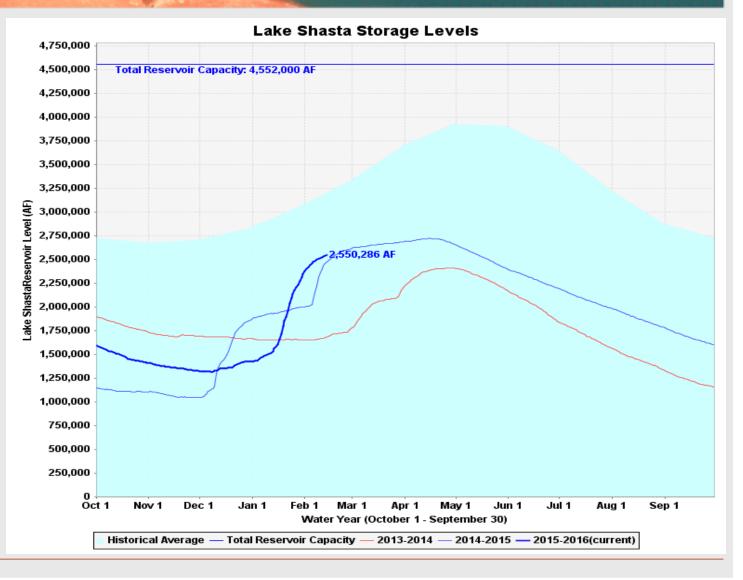


Reservoir Conditions - Shasta Reservoir



Lake Shasta Conditions



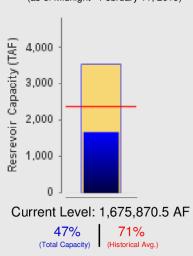


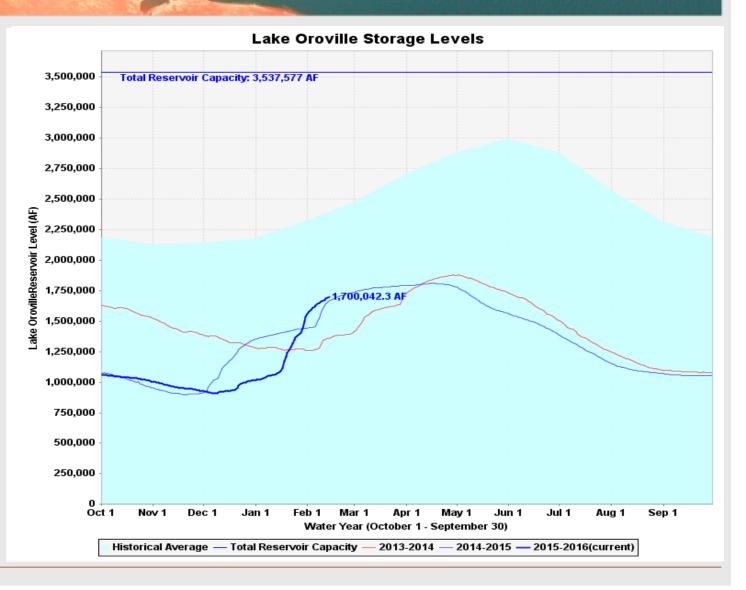


Reservoir Conditions - Lake Oroville



Lake Oroville Conditions



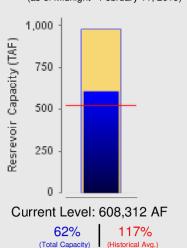


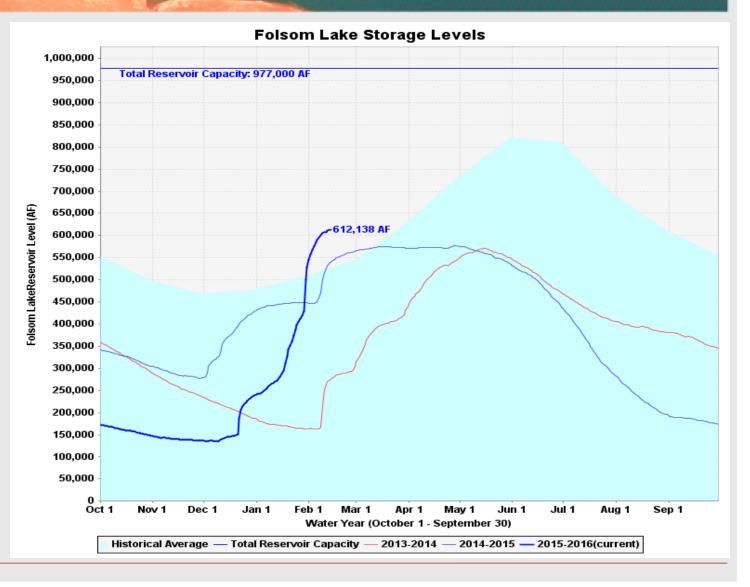


Reservoir Conditions - Folsom Lake



Folsom Lake Conditions



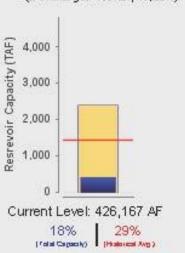


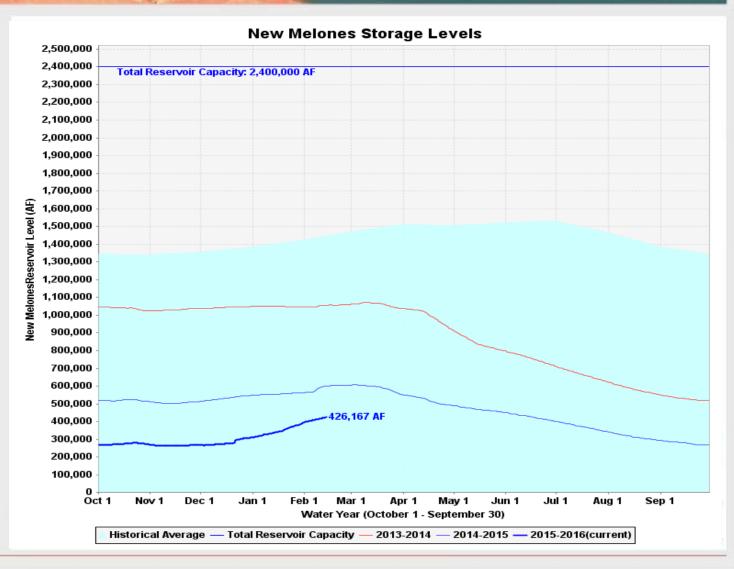


Reservoir Conditions - New Melones



New Melones Conditions



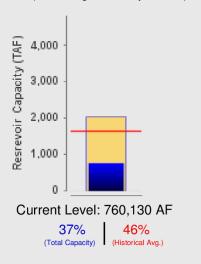


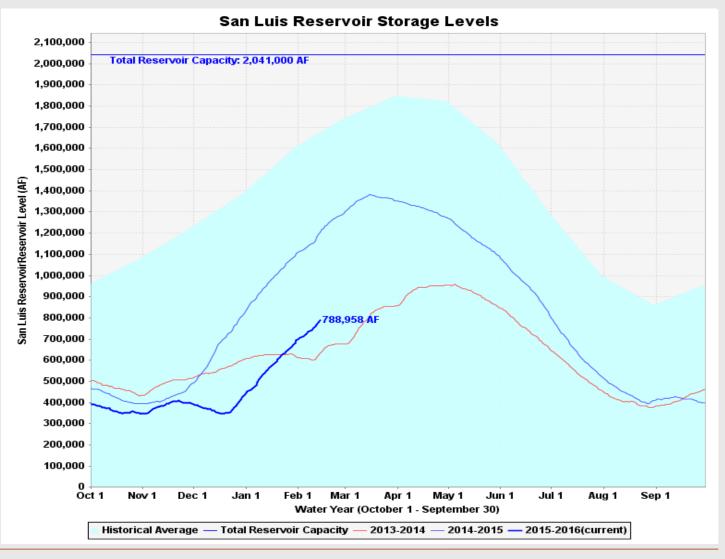


Reservoir Conditions - San Luis



San Luis Conditions







Current Regional Snowpack from Automated Snow Sensors

% of April 1 Average / % of Normal for This Date



NORTH	
Data as of February 12, 2016	
Number of Stations Reporting	29
Average snow water equivalent (Inches)	22.8
Percent of April 1 Average (%)	79
Percent of normal for this date (%)	105

CENTRAL	
Data as of February 12, 2016	
Number of Stations Reporting	40
Average snow water equivalent (Inches)	21.4
Percent of April 1 Average (%)	74
Percent of normal for this date (%)	100

SOUTH	
Data as of February 12, 2016	
Number of Stations Reporting	31
Average snow water equivalent (Inches)	16.8
Percent of April 1 Average (%)	65
Percent of normal for this date (%)	92

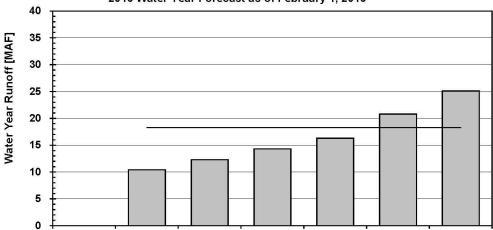
STATE	
Data as of February 12, 2016	
Number of Stations Reporting	100
Average snow water equivalent (Inches)	20.4
Percent of April 1 Average (%)	73
Percent of normal for this date (%)	100

Statewide Average: 73% / 100%

California Snow Water Content - Percent of April 1 Average For: 12-Feb-2016 250 Percent of Apr 1 Avg: 79% NORTH Percent of Normal: 105% 200 % April 1 Average 150 100 50 250 CENTRAL Percent of Apr 1 Avg: 74% Percent of Normal: 100% 200 % April 1 Average 150 100 50 250 SOUTH Percent of Apr 1 Avg: 65% Percent of Normal: 92% 200 % April 1 Average 150 100 50 Dec Jan Feb Mar Apr May Jun Jul Average - 1982-1983 (max) - 2013-2014 -2014-2015 - 2015-2016 (current)

SACRAMENTO RIVER UNIMPAIRED RUNOFF

2016 Water Year Forecast as of February 1, 2016



Probability of Exceedance

Date of Forecast	99%	90%	75%	50%	25%	10%
Average	18.3	18.3	18.3	18.3	18.3	18.3
December 1, 2015	3.9 (21%)	6.5 (36%)	8.9 (49%)	12.8 (70%)	17.5 (96%)	22.5 (123%)
January 1, 2016	6.9 (38%)	9.1 (50%)	11.3 (62%)	14.4 (79%)	18.4 (101%)	22.8 (125%)
February 1, 2016	10.4 (57%)	12.3 (67%)	14.3 (78%)	16.3 (89%)	20.8 (114%)	25.1 (138%)

Water Year Runoff in million acre feet & (percent of average)

Sacramento River Runoff is the sum of unimpaired flow in million acre-feet at:

Sacramento River above Bend Bridge

Feather River at Oroville (aka inflow to Lake Oroville)

Yuba River near Smartville

American River below Folsom Lake

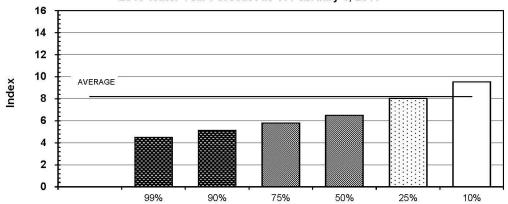
Water Year Runoff through end of last month:

2016 (current year) =	4.9 MAF	87% of avg.
2015 (last year) =	4.3 MAF	76% of avg.

Previous Water Year Total Runoff:

2015 =	9.3 MAF	51% of avg.
1977 (Min) =	5.1 MAF	28% of avg.
1983 (Max) =	37.7 MAF	206% of avg.
1961-2010 average =	18.3 MAF	

SACRAMENTO VALLEY WATER YEAR TYPE INDEX (40-30-30) 2016 Water Year Forecast as of February 1, 2016



Probability of Exceedance

Date of Forecast	99%	90%	75%	50%	25%	10%
December 1, 2015	2.4	3.3	4.0	5.3	6.8	8.5
January 1, 2016	3.4	4.1	4.8	5.8	7.2	8.6
February 1, 2016	4.5	5.1	5.8	6.5	8.0	9.5

Water Year Index based on flow in million acre feet

Index = 0.4 * Current Apr-Jul Runoff (1)

+ 0.3 * Current Oct-Mar Runoff (1)

+ 0.3 * Previous Year's Index (2)

Notes:

(1) Runoff is the sum of unimpaired flow in million acre-feet at: Sacramento River above Bend Bridge

Feather River at Oroville (aka inflow to Lake Oroville)

Yuba River near Smartville

American River below Folsom Lake

(2) Maximum 10.0 for previous year index term

Previous Water Year Indices:

2015 =	4.0	49% of avg.
1977 (Min) =	3.1	38% of avg.
1983 (Max) =	15.3	186% of avg.
1961-2010 average =	8.2	

Year Classification

<u>TYPE</u>		INDEX
Wet		
Above Normal	110111111	9.2
Below		7.8
Normal		6.5
Dry		5.4
Critical		

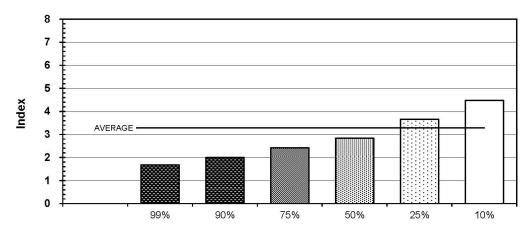
2015 =

2015 (Min) =

1983 (Max) =

1961-2010 average =

SAN JOAQUIN VALLEY WATER YEAR TYPE INDEX (60-20-20) 2016 Water Year Forecast as of February 1, 2016



Probability of Exceedance

Date of Forecast	99%	90%	75%	50%	25%	10%
December 1, 2015	0.6	1.1	1.5	2.2	3.0	4.0
January 1, 2016	1.0	1.4	1.9	2.4	3.1	3.9
February 1, 2016	1.7	2.0	2.4	2.8	3.7	4.5

Water Year Index based on flow in million acre feet

Index = 0.6 * Current Apr-Jul Runoff (1) + 0.2 * Current Oct-Mar Runoff (1) Year Classification + 0.2 * Previous Year's Index (2) **INDEX TYPE** Notes: (1) Runoff is the sum of unimpaired flow in million acre-feet at: Wet Stanislaus River below Goodwin Reservoir (aka inflow to New Melones Res) 3.8 Tuolumne River below La Grange (aka inflow to New Don Pedro Reservoir) Above Normal Merced River below Merced Falls (aka inflow to Lake McClure) 3.1 **Below Normal** San Joaquin River inflow to Millerton Lake 2.5 Dry (2) Maximum 4.5 for previous year index term 2.1 Critical **Previous Water Year Indices:**

25% of avg.

25% of avg.

219% of avg.

0.8

0.8

7.2

3.3

Lake Shasta End of April Storage Potential for Meeting Compliance Point Target of 56° F (Apr-Sep)

