Water Talks: Preparing the Mt. Shasta Community for Drought

DROUGHT PREPAREDNESS & RESPONSE

Bill Croyle, Drought Manager Department of Water Resources March 10, 2015

PUBLIC SAFETY

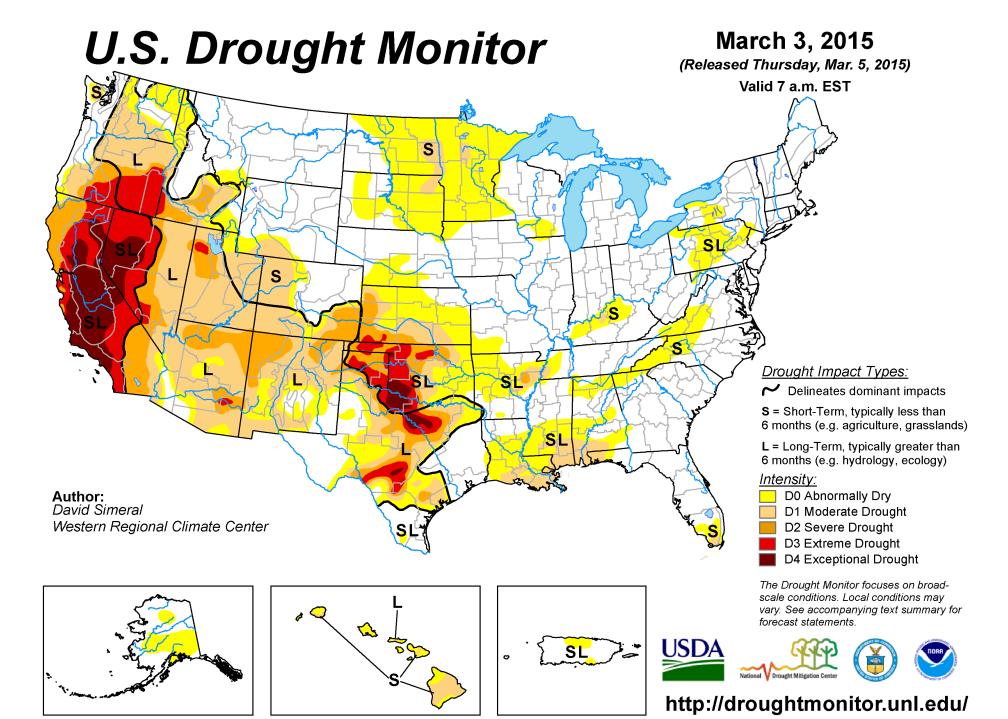
ENVIRONMENTAL STEWARDSHIP

ECONOMIC STABILITY

California's Drought



- Governor Declared Drought Emergency
- 2015 Forth dry water year statewide
- 2014 Warmest year on record
- 2012-2014 Driest 3 years on record
- January 2015 Driest in most areas
- 2015 Warmer and dry
- Statewide storage below average
- Groundwater basins continue to be depleted
- Local conditions are degrading
- High level of local, State and federal coordination



Statewide Drought Conditions

Official State of Emergency
Declared on
January 17, 2014

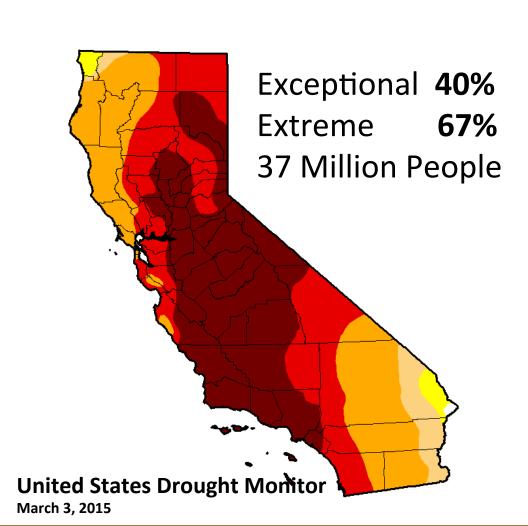
Local Emergencies Declared

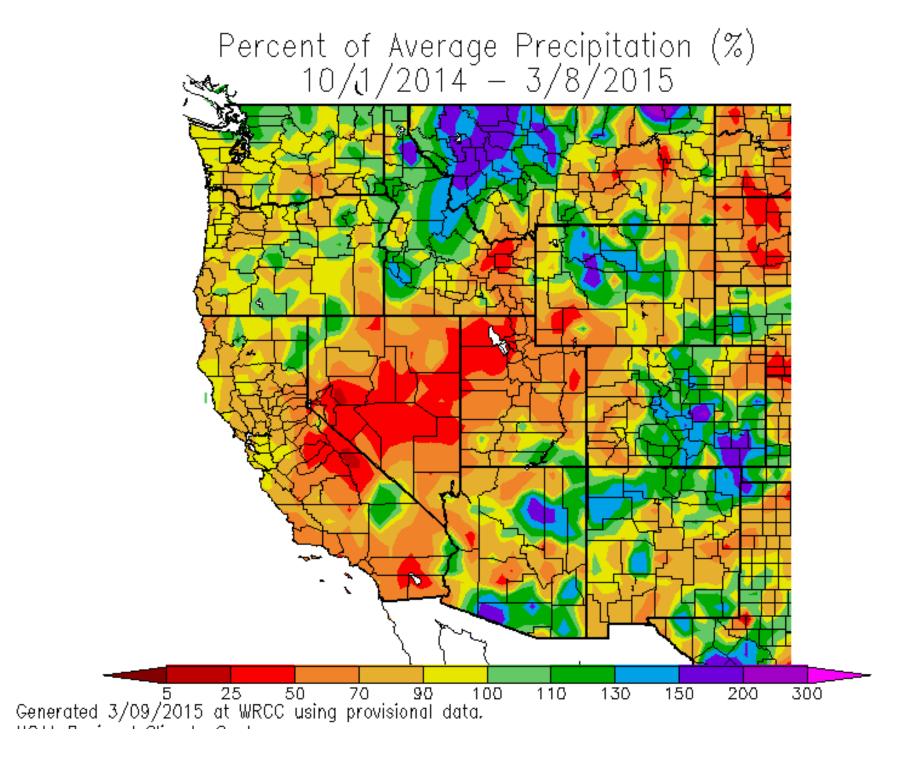
- 25 Counties
- 13 Cities
- 9 Tribal Reservations
- 13 Special Districts

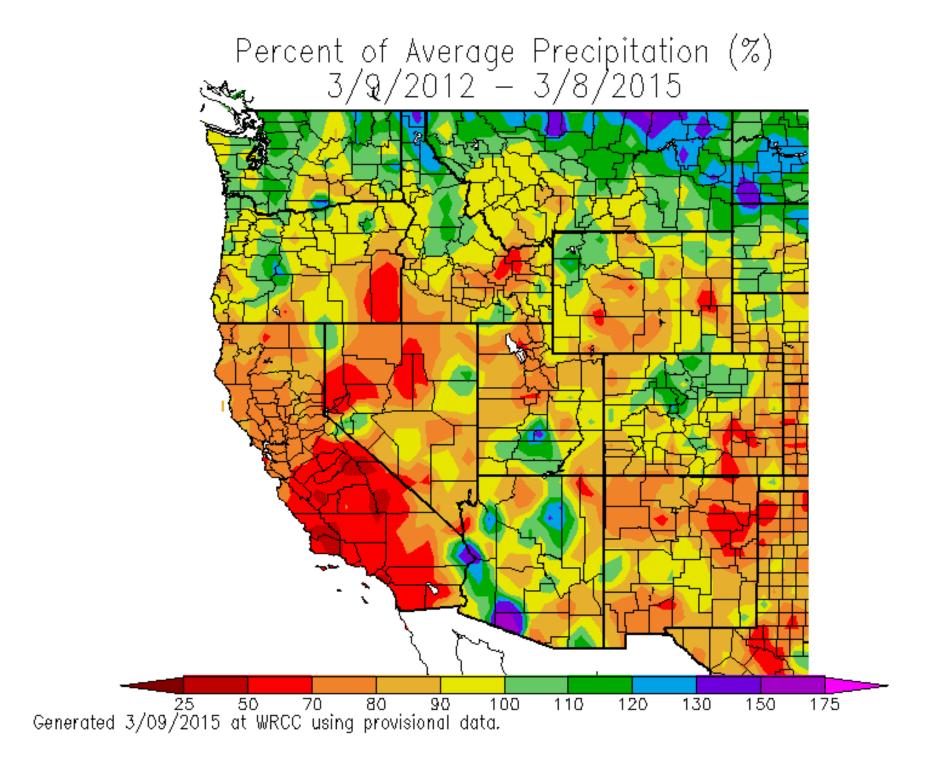
County & Tribal Drought Task Force

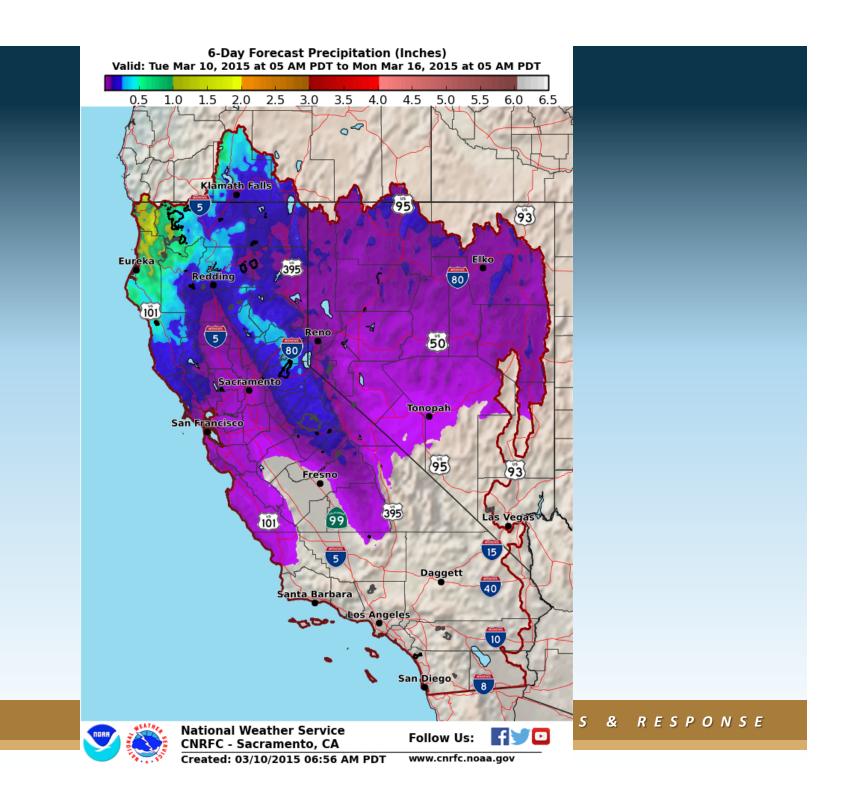
- 30 Counties
- 3 Tribes











% of April 1 Average / % of Normal for This Date Northern Sierra / Trinity 14% / 15% Central Sierra 17% / 18% Southern Sierra 18% / 19% **Statewide** 18% **Normal to Date 17%**

April 1 Average

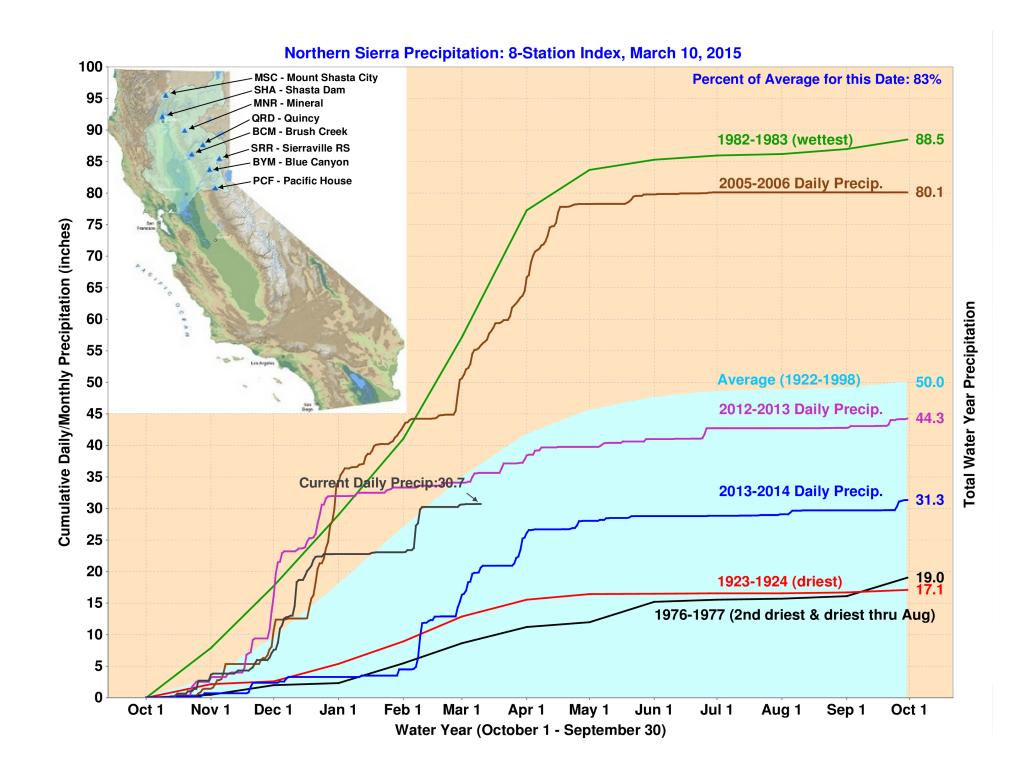
Snow Water Equivalents

NORTH					
Data as of March 10, 2015					
Number of Stations Reporting	31				
Average snow water equivalent (Inches)	4.1				
Percent of April 1 Average (%)	14				
Percent of normal for this date (%)	15				

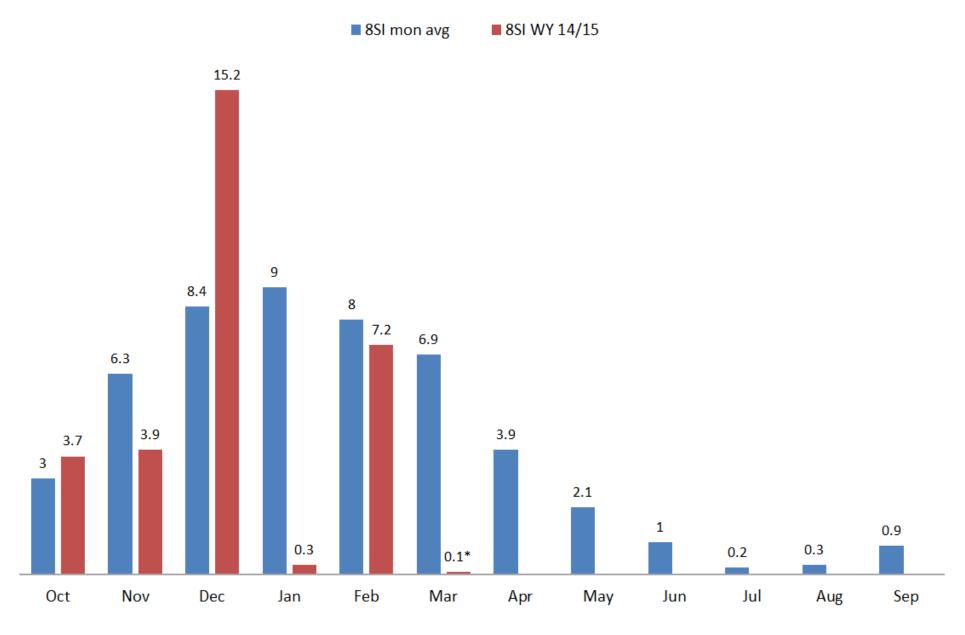
CENTRAL					
Data as of March 10, 2015					
Number of Stations Reporting	42				
Average snow water equivalent (Inches)	5.3				
Percent of April 1 Average (%)	17				
Percent of normal for this date (%)	18				

SOUTH					
Data as of March 10, 2015					
Number of Stations Reporting	29				
Average snow water equivalent (Inches)	4.9				
Percent of April 1 Average (%)	18				
Percent of normal for this date (%)	19				

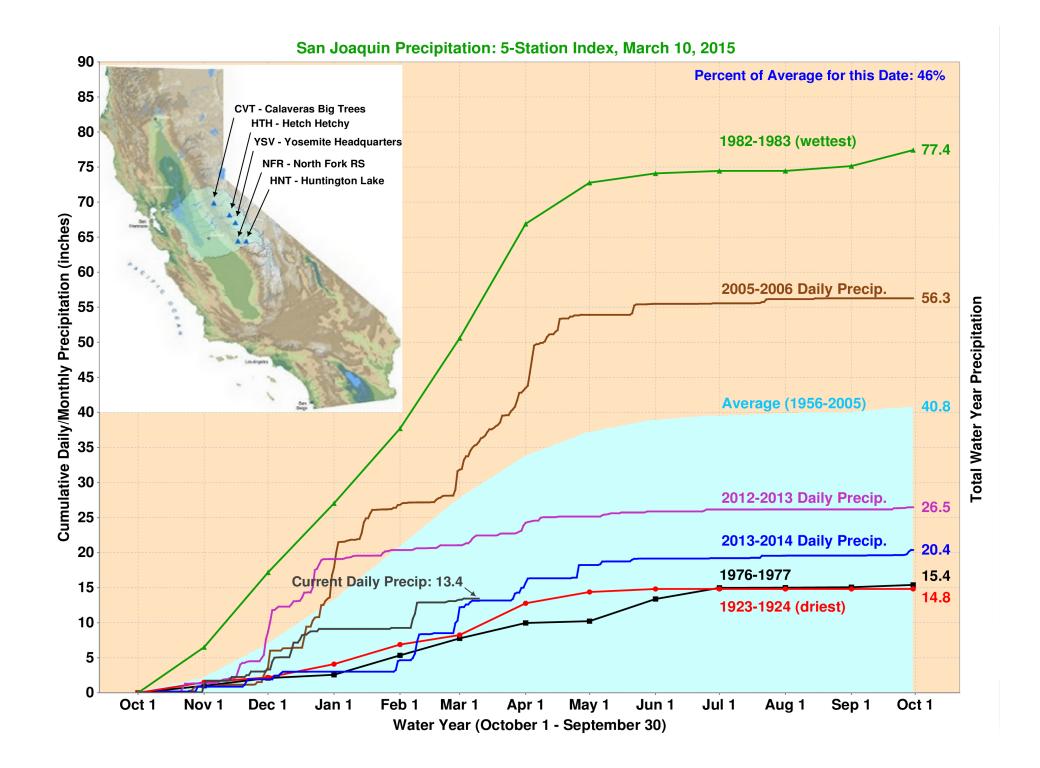
STATE	
Data as of March 10, 2015	
Number of Stations Reporting	102
Average snow water equivalent (Inches)	4.8
Percent of April 1 Average (%)	17
Percent of normal for this date (%)	18

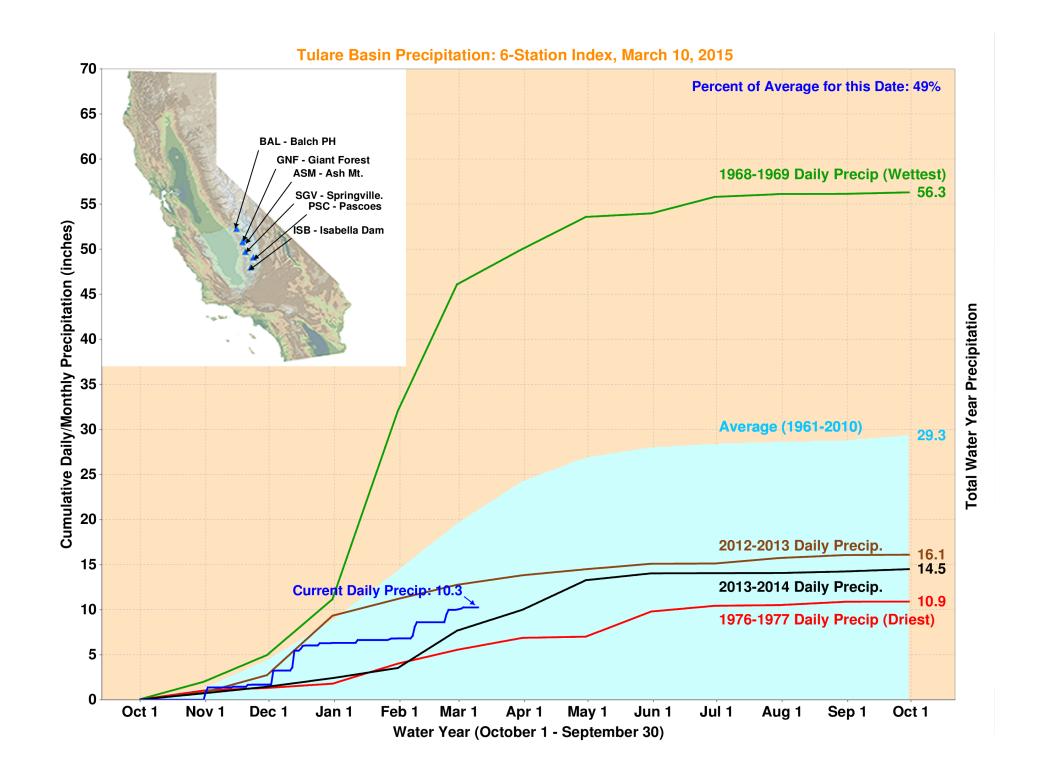


Northern Sierra Eight Station Index



^{*} As of March 10, 2015



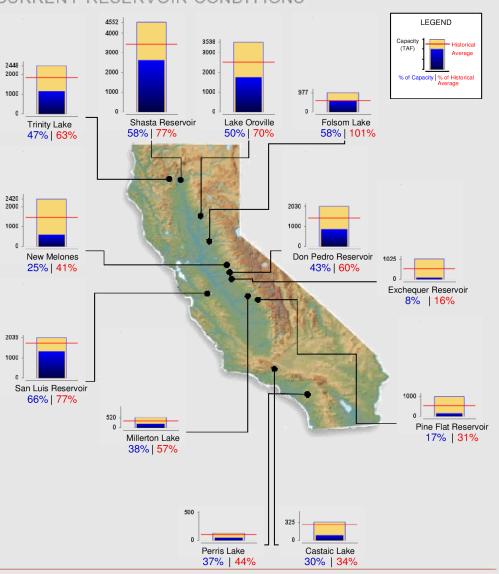


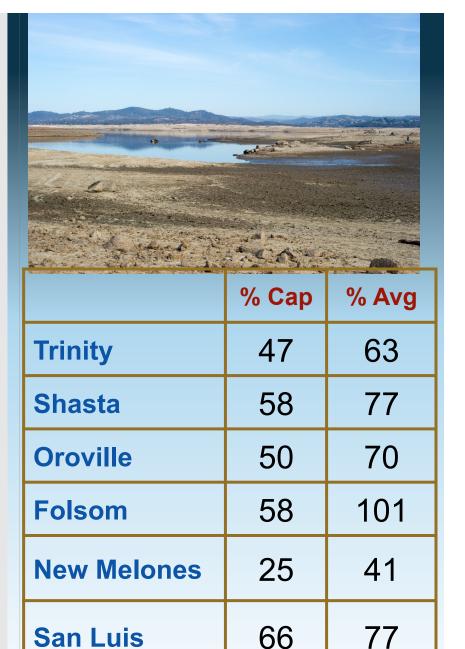


Reservoir Conditions

Ending At Midnight - March 9, 2015

CURRENT RESERVOIR CONDITIONS





PREPAREDNESS & RESPONSE

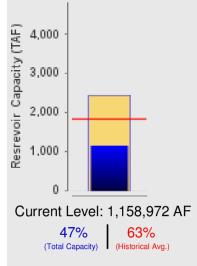


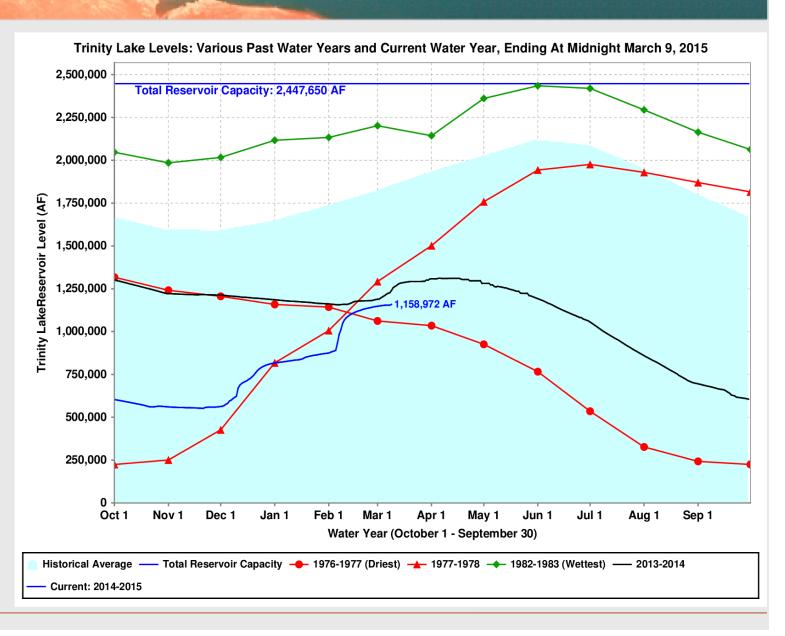
Reservoir Conditions - Trinity Lake



Trinity Lake Conditions

(as of Midnight - March 9, 2015)





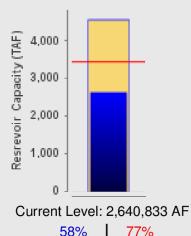


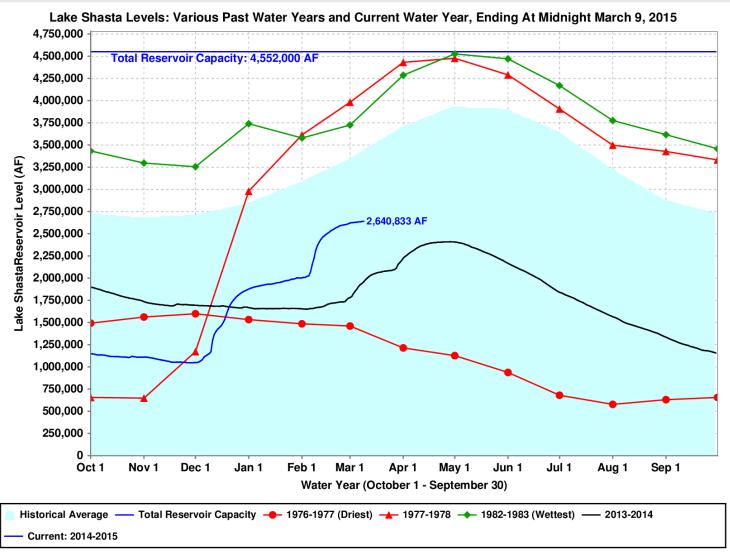
Reservoir Conditions - Shasta Reservoir



Lake Shasta **Conditions**

(as of Midnight - March 9, 2015)





Data Updated 03/10/2015 08:15 AM

(Total Capacity) (Historical Avg.)

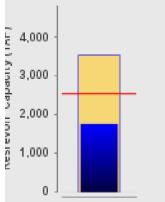


Reservoir Conditions - Lake Oroville



Lake Oroville Conditions

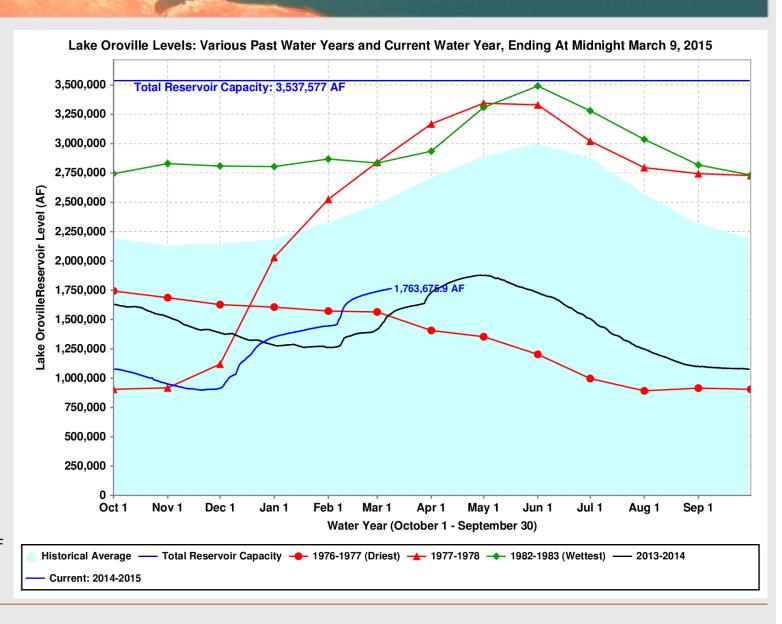
(as of Midnight - March 9, 2015)



Current Level: 1,763,675.9 AF

50%

70% (Total Capacity) (Historical Avg.)



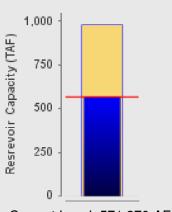


Reservoir Conditions - Folsom Lake



Folsom Lake Conditions

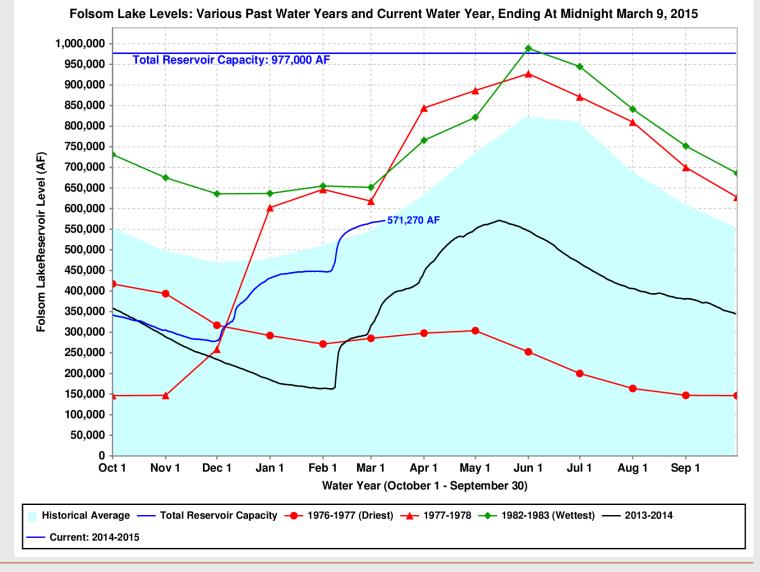
(as of Midnight - March 9, 2015)



Current Level: 571,270 AF

58%

101% (Total Capacity) | (Historical Avg.)



Data Updated 03/10/2015 08:15 AM

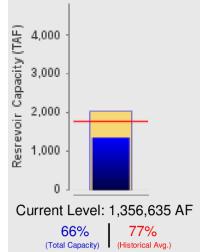


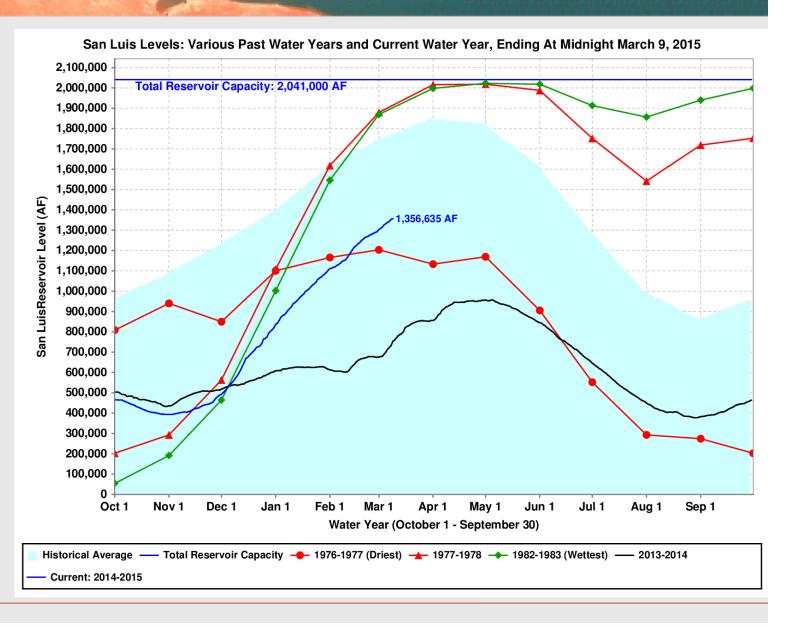
Reservoir Conditions - San Luis



San Luis Conditions

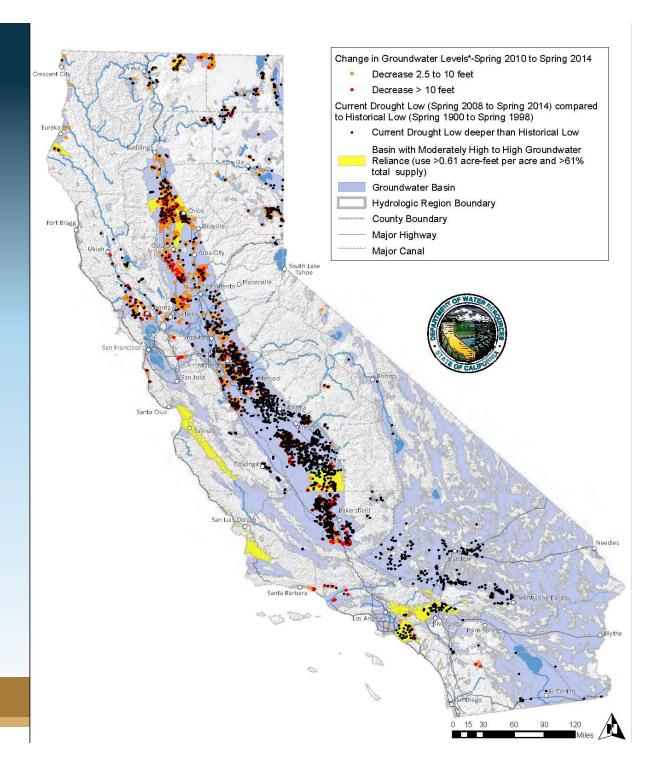
(as of Midnight - March 9, 2015)





Groundwater Conditions

Black Dots =
Groundwater Level
at Lowest Recorded



Possible Drought Actions for 2015

- Mandatory Conservation (State Water Board)
- Increased Conservation Reporting (State Water Board)
- Curtailments State Water Board (Water Rights)
- Increased Groundwater Use Oversight
- Increased Real-time Data and Information
- IRWM Funding Final Prop 84 Round (\$230M)
- Water / Energy Grants (\$9M)
- Small Project Emergency Funding

California Water Action Plan

Governor Brown directed three cabinet secretaries to coordinate on an interagency effort to create a water action plan for the State.







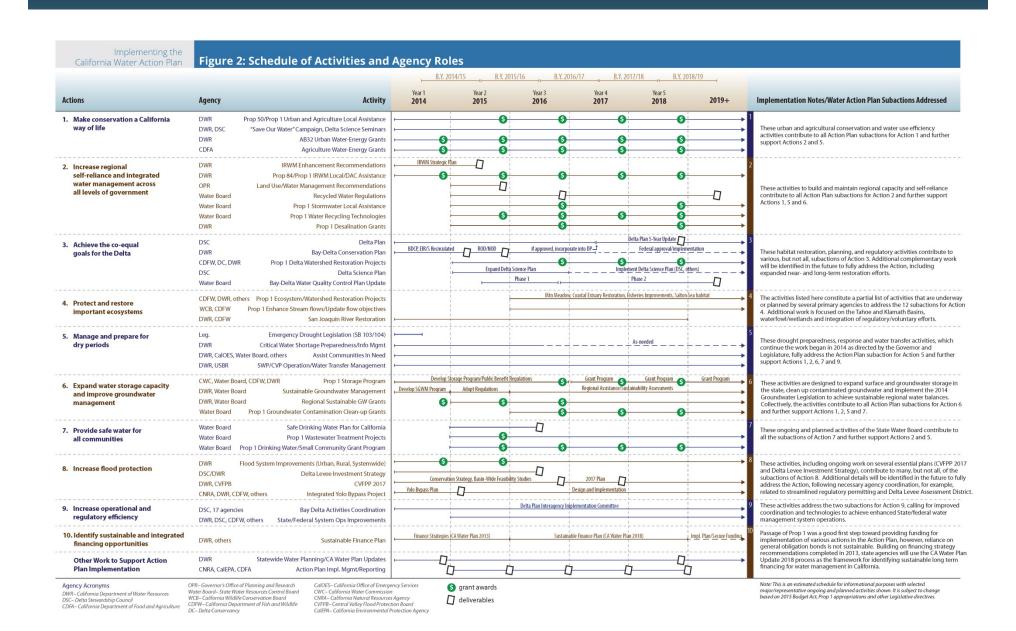


Ten Priority Actions

- 1. Make conservation a California way of life
- 2. Increase regional self-reliance and integrated water management across all levels of government
- 3. Achieve the co-equal goals for the Delta
- 4. Protect and restore important ecosystems
- 5. Manage and prepare for dry periods
- 6. Expand water storage capacity and improve groundwater management
- 7. Provide safe water for all communities
- 8. Increase flood protection
- 9. Increase operational and regulatory efficiency
- 10. Sustainable and integrated financing opportunities



Next 4 Years: Roles and Schedule



DWR and State Water Board have prominent roles in developing regulations, providing grants and local assistance

Implementing the California Water Action Plan

Figure 2: Schedule of Activities and Agency Roles

Actions	Agency	Activity	Year 1 2014	Year 2 2015	Year 3 2016	B.Y. 2016
Make conservation a California way of life	DWR	Prop 50/Prop 1 Urban and Agriculture Local Assistance ⊢	1		6	6
	DWR, DSC	"Save Our Water" Campaign, Delta Science Seminars	i			i
	DWR	AB32 Urban Water-Energy Grants 📙	6		6	6
	CDFA	Agriculture Water-Energy Grants ⊢	9		9	9
2. Increase regional	DWR	IRWM Enhancement Recommendations	IRWM Strategic P	an		
self-reliance and integrated water management across all levels of government	DWR	Prop 84/Prop 1 IRWM Local/DAC Assistance ⊢	6		6	6
	OPR	Land Use/Water Management Recommendations	1			1
	Water Board	Recycled Water Regulations)		-	
	Water Board	Prop 1 Stormwater Local Assistance				0
	Water Board	Prop 1 Water Recycling Technologies			9	0
	DWR	Prop 1 Desalination Grants				9

Urban Water Meters

- AB 2572 (Kehoe) of 2004 requires water meters on all municipal/ industrial service connections within their service area by January 1, 2025
- Nearly **97**% of those required are metered (State Water Board, 2013)
- 40 California urban water suppliers with unmetered connections

Better information on water usage helps manage water

Advanced smart
 meters generate
 detailed information
 on water use and help
 identify leaks



New urban landscapes are required to have dedicated meters for areas > 5,000 sq. ft. (per Updated Model Water Efficient Landscape Ordinance)





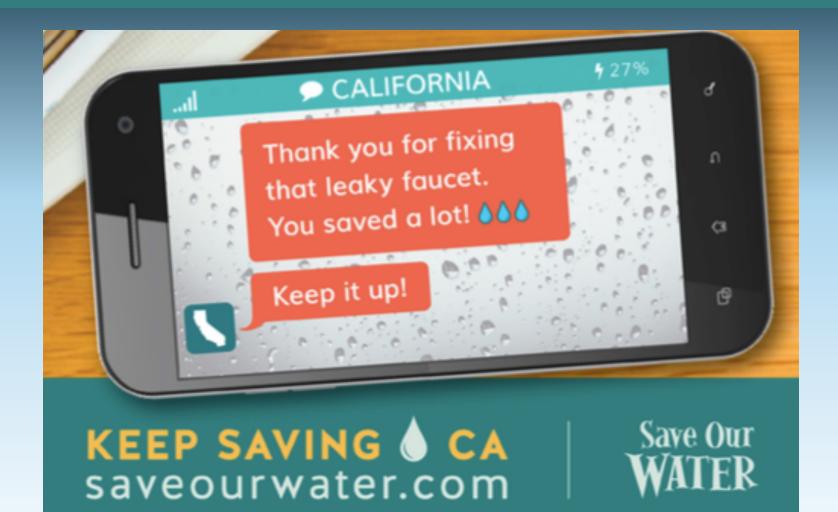
Urban Water Meter Replacement

- On February 24th the City of Sacramento Council voted to install approximately 51,000 meters by 2020.
 - Go to tiered rate system
 - Conservation efforts
 - Goal use 10-percent less water
- On March 5th, the Elk Grove Water District completed installation of water meters, a full 10 years ahead of the State's deadline.



- Requires large agricultural water suppliers (with over 25,000 irrigated acres)
- Measure volume of water delivered
- Bill, at least in part, on volume

KEEP SAVING CA





Thank You

The Governor asked all Californians to reduce water consumption by **20 percent** and referred residents and water agencies to the Save Our Water campaign -- www.saveourh20.org





