



Ongoing Drought, Long Term Drought Planning

January 27, 2017, 9am
Region 3 Board Meeting
Santa Barbara County Offices
Planning & Development Hearing Room – 1st Floor
105 East Anapamu Street, Santa Barbara, CA

Drought Task Force

- Multiple actions, including:
 - Emergency drinking water assistance
 - Fire response
 - System operations
 - Emergency conservation regulations
- Emergency conservation regulations have adapted to changing conditions



Water Savings Achieved by Select Suppliers (Central Coast Region)

Supplier Name	Conservation Standard	Cumulative Savings Jun 2015 - Nov 2016	Cumulative Savings Jun 2016 - Nov 2016	Average R-GPCD Jan-Nov 2013	Average R-GPCD Jan-Nov 2016	Population Served
MONTEREY COUNTY						
CalWater Service Co Salinas District	0%	26%	24%	79	58	122,738
Marina Coast Water District *	11%	32%	32%	89	59	34,235
SANTA BARBARA COUNTY						
Carpinteria Valley Water District	0%	24%	28%	103	83	14,616
Santa Barbara *	12%	36%	38%	101	62	93,426
Santa Maria	0%	18%	19%	87	72	102,087
SAN LUIS OBISPO COUNTY						
Morro Bay	0%	20%	23%	74	59	10,284
San Luis Obispo *	12%	21%	21%	69	54	46,117

* did not self-certify

Statewide average R-GPCD

132	102
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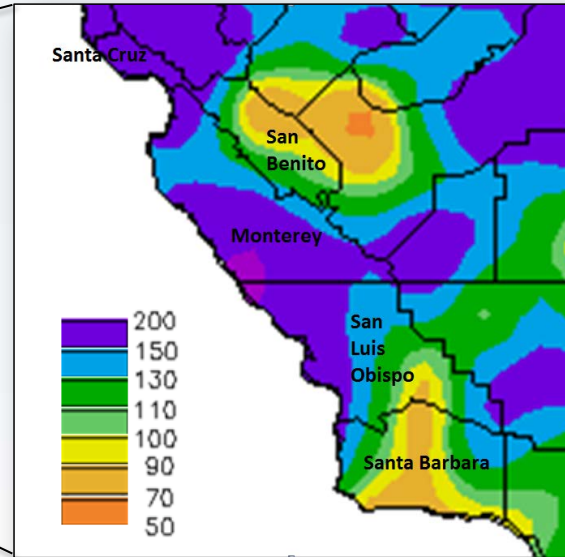
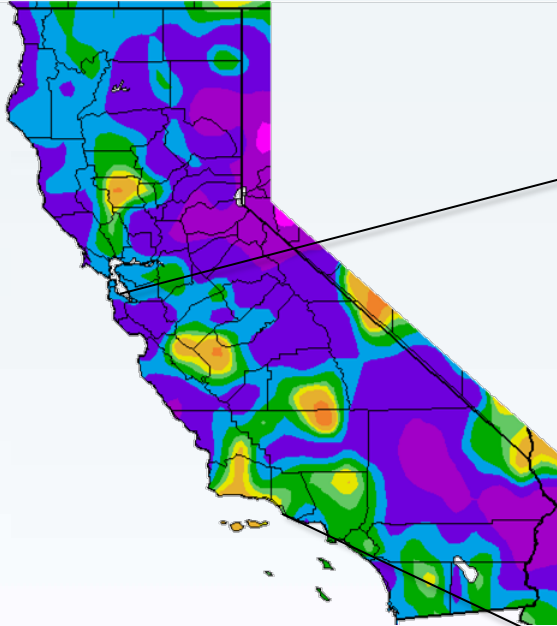
Water Savings Achieved by Select Suppliers

Supplier Name	State-mandated Conservation Standard	Applicable Cumulative Savings	Monthly % Savings (compared to 2013)		Water Use Nov 2016 R-GPCD	Population Served
			Nov 2015	Nov 2016		
MONTEREY COUNTY						
Alco Water Service	0%	24%	26%	26%	85	29,773
Cal-Am Water Co Monterey District	0%	16%	26%	22%	54	91,884
CalWater Service Co King City	0%	27%	29%	23%	41	15,187
CalWater Service Co Salinas District	0%	24%	20%	19%	48	122,738
Greenfield	5%	17%	27%	23%	54	17,898
Marina Coast Water District *	11%	32%	34%	23%	58	34,235
Soledad	0%	16%	24%	24%	70	16,729
SANTA BARBARA COUNTY						
Carpinteria Valley Water District	0%	28%	27%	32%	67	14,616
Golden State Water Company Orcutt	0%	29%	36%	31%	110	31,872
Goleta Water District *	12%	28%	17%	32%	46	86,946
Lompoc *	12%	23%	33%	36%	65	41,541
Santa Barbara *	12%	36%	30%	35%	66	93,426
Santa Maria	0%	19%	20%	21%	60	102,087
SAN LUIS OBISPO COUNTY						
Arroyo Grande *	28%	37%	41%	42%	68	17,636
Atascadero Mutual Water Company	0%	24%	30%	33%	67	31,592
Cambria Community Services District *	8%	33%	31%	14%	38	6,032
Morro Bay	0%	23%	14%	25%	55	10,284
Nipomo Community Services District	23%	30%	34%	37%	84	13,351
Paso Robles	0%	25%	32%	38%	85	30,522
San Luis Obispo *	12%	21%	22%	23%	49	46,117

* did not self-certify

Percent of Average Precipitation

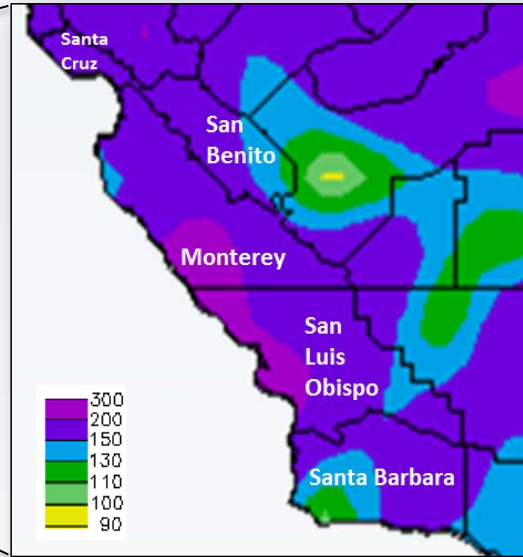
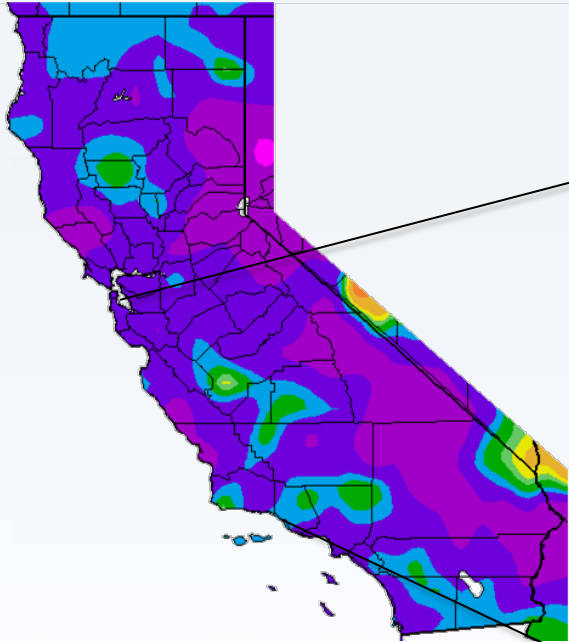
Water Year Thus Far:
10/1/2016 – 1/15/2017



5 25 50 70 90 100 110 130 150 200 300
Generated 1/16/2017 at WRCC using provisional data.
NOAA Regional Climate Centers

Percent of Average Precipitation

Water Year Thus Far:
10/1/2016 – 1/22/2017



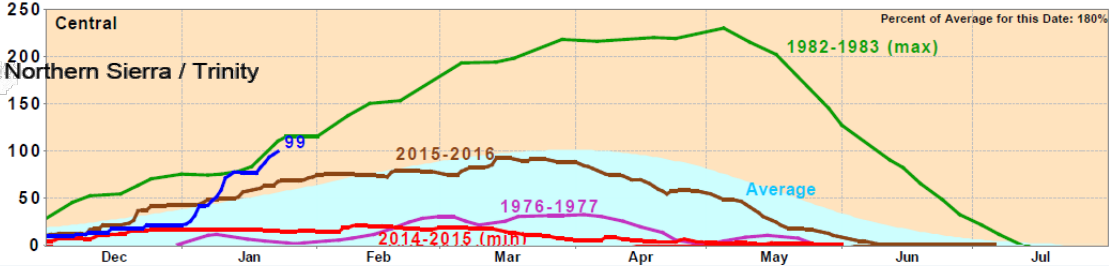
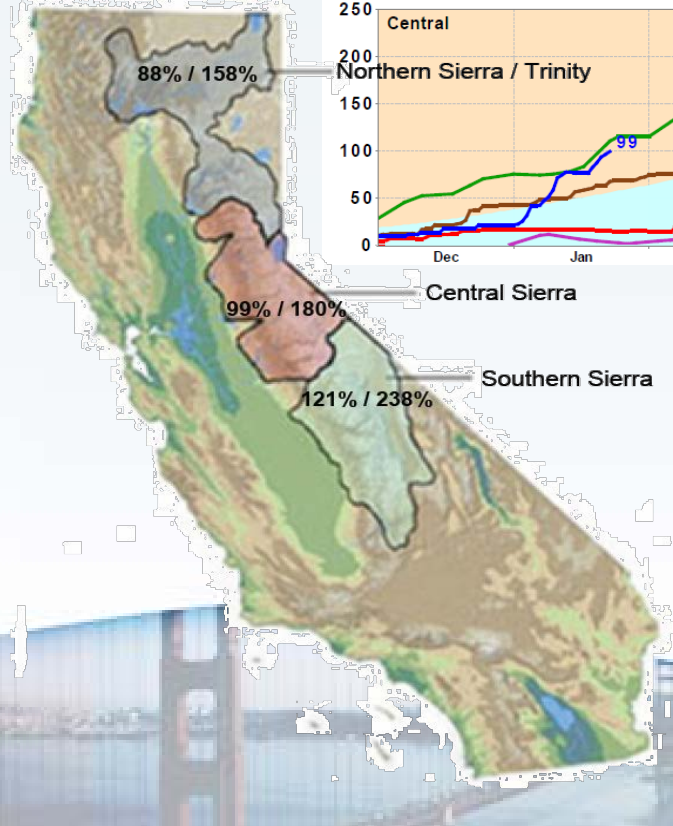
5 25 50 70 90 100 110 130 150 200 300
Generated 1/23/2017 at WRCC using provisional data.
NOAA Regional Climate Centers



Regional Snowpack

(January 23, 2017)

% April 1st Average /
% Average for the Date



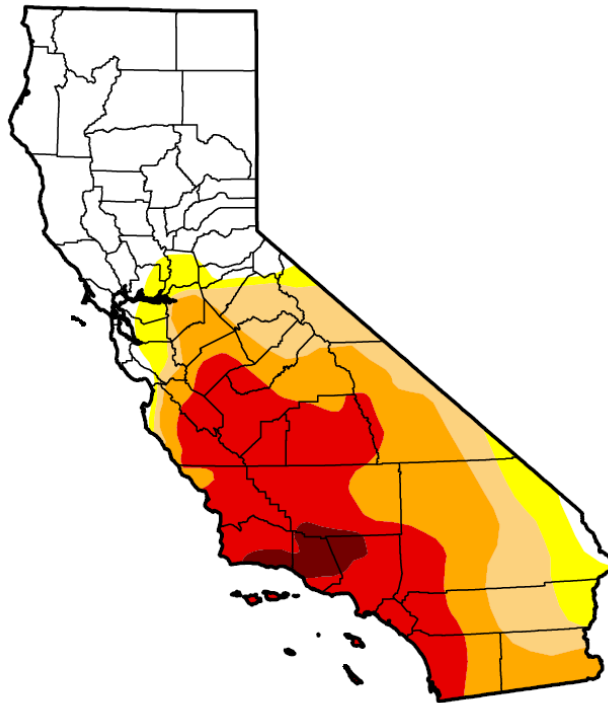
STATE	
Data as of January 23, 2017	
Number of Stations Reporting	74
Average snow water equivalent (Inches)	30.7
Percent of April 1 Average (%)	104
Percent of normal for this date (%)	193

Data source: cdec.water.ca.gov/cdecapp/snowapp/sweq.action

Statewide Drought Conditions

U.S. Drought Monitor California

January 17, 2017
(Released Thursday, Jan. 19, 2017)
Valid 7 a.m. EST



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	35.56	64.44	57.51	44.35	24.30	2.13
Last Week 1/10/2017	34.62	65.38	58.22	49.22	27.80	2.13
3 Months Ago 10/18/2016	7.77	92.23	81.12	61.80	42.80	21.04
Start of Calendar Year 1/3/2017	18.07	81.93	67.61	54.02	38.17	18.31
Start of Water Year 9/27/2016	0.00	100.00	83.59	62.27	42.80	21.04
One Year Ago 1/19/2016	0.00	100.00	97.17	86.13	68.15	42.66

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.

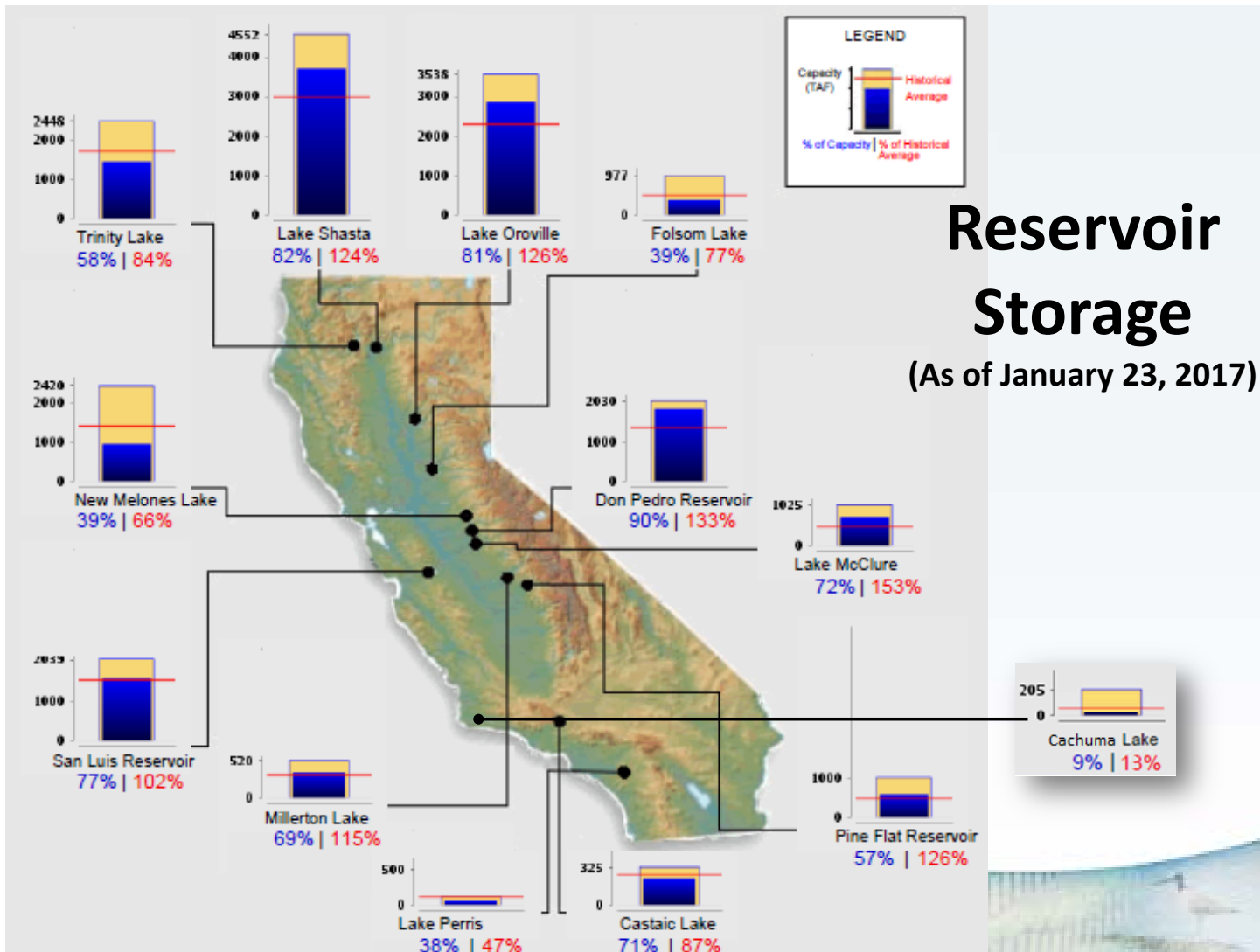
Author:
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CPC/NOAA/NWS/NCEP



<http://droughtmonitor.unl.edu/>

Reservoir Storage

(As of January 23, 2017)



Surface Water Storage

(January 2017)

RESERVOIR	Capacity (TAF)	January 2017 (TAF)	% Capacity
Lake Nacimiento	383	232	61%
Lake San Antonio	331	61	18%
Cachuma Lake	205	23	11%
Twitchell Reservoir	195	9	5%
Whale Rock	39	20	52%
Santa Margarita Lake	26	14	53%
Gibraltar Lake	10	4	43%
Jameson Reservoir	5	1	14%
TOTAL STORAGE	1,194	364	31%
			100%



Groundwater



Photo Credit: USGS/Justin Brandt

- Groundwater levels will take time to recover
- Regions that have pumped more groundwater than is replenished will take years to rebuild
- Implementation of Sustainable Groundwater Management Act



http://www.water.ca.gov/waterconditions/docs/DWR_PublicUpdateforDroughtResponse_GroundwaterBasins.pdf

California Hydrology and Climate Change

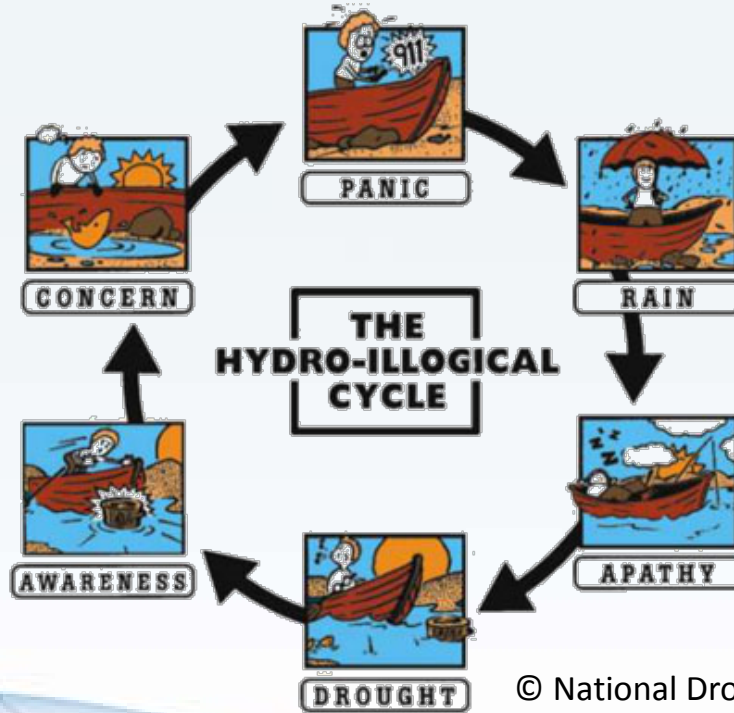
- California is a land of extremes



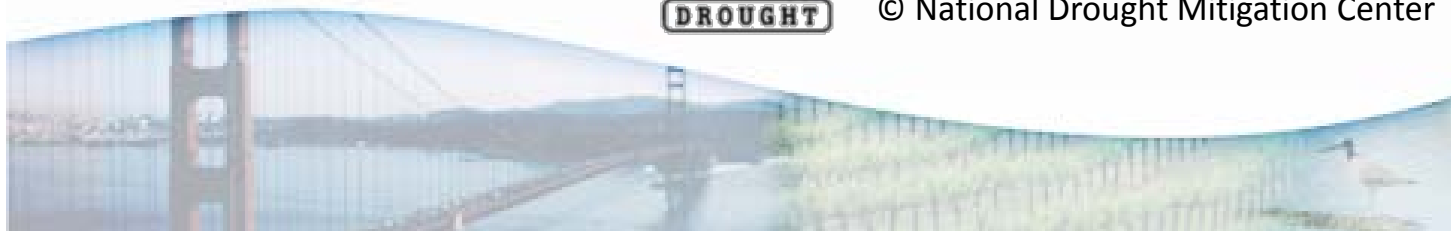
- Climate change is increasing these extremes



Breaking the Reactive Cycle



© National Drought Mitigation Center



How to Break the Reactive Cycle?

- Education: Understand the Cycle
- Water Action Plan
 - Safeguarding California - Preparedness
 - Drought/Flood Resiliency
 - Long Term Conservation Strategy
 - Storage (surface, groundwater, storm)
 - Desal
 - Groundwater Sustainability
 - Structuring Ecosystems

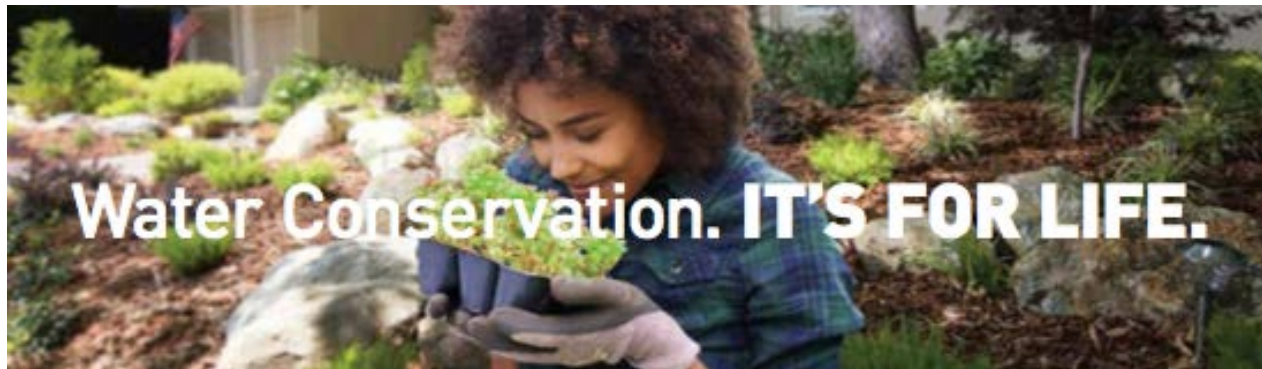




Save Our Water

Public Education Campaign

Governor Brown, May 2016: “Make conservation a California way of life”



SaveOurWater.com

