

The Impacts of California's Drought

Governor's Drought Task Force
Office of the Governor

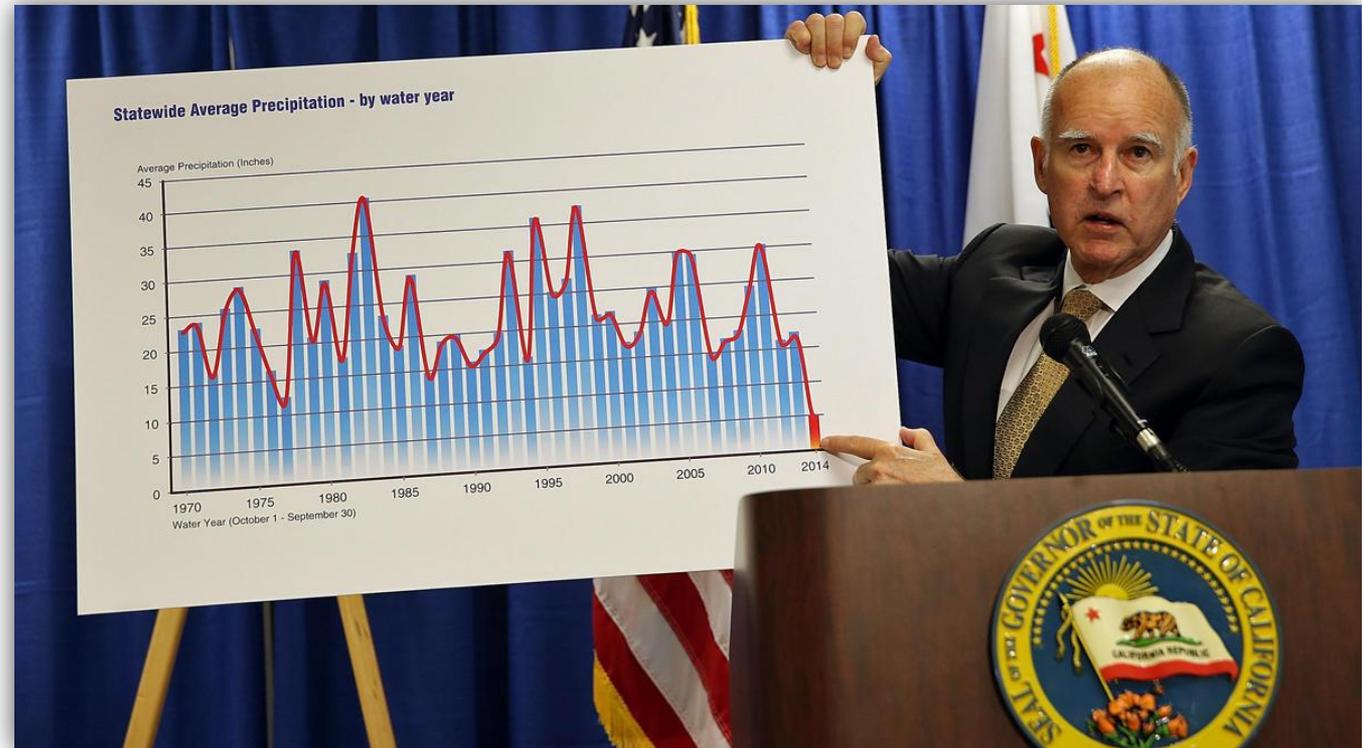


Cal OES
GOVERNOR'S OFFICE
OF EMERGENCY SERVICES



3rd

Straight Year of **DROUGHT**



3

Executive Orders Issued





December
17
2013

DROUGHT

TASK FORCE CONVENED

California's Drought



- 2014 third dry year statewide
- Statewide storage well below average
- Ground Water basins are being depleted
- Feb and Mar rain helped, but drought conditions persist
- State and federal water projects restricted by regulatory actions to protect the Delta
- Local conditions are degrading
- High level of local, State and federal coordination
- 2015 could also be dry
- More frequent or longer droughts are likely

Short Term Actions

- Conservation and Education
- Multi-agency Water Information Management Systems
- Local Drought Task Forces
- Direct Water Hauling
- Water Contingency Plans
- Ground Water Assessments
- Water Transfers
- Environmental Monitoring and Response

Advance Planning

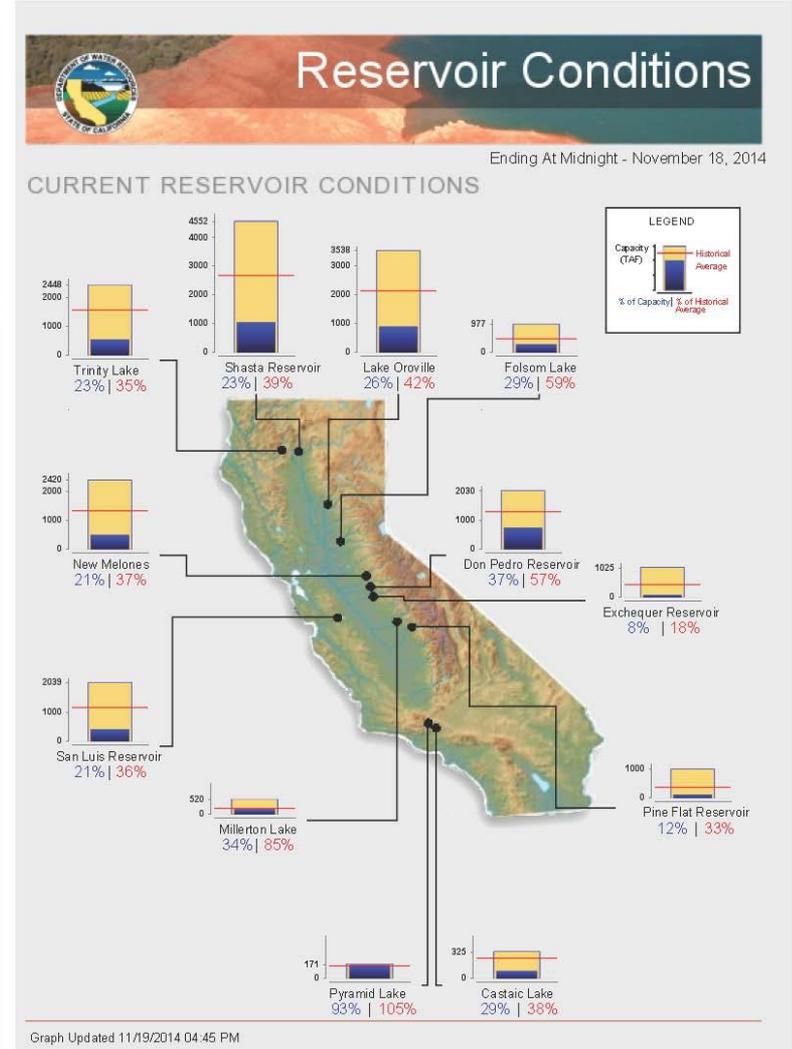
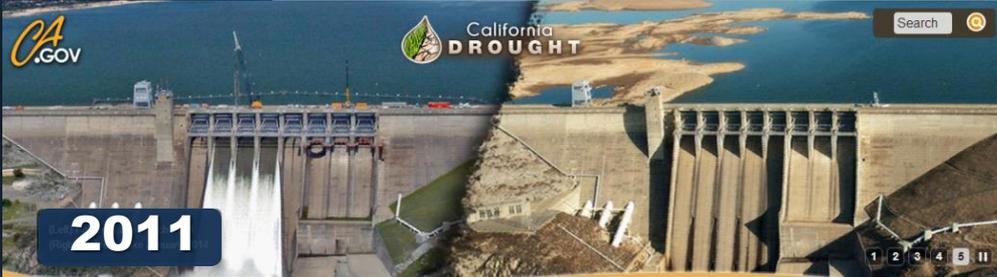
- Gov Drought Task Force Workgroup
- Looking 3 to 9 Months out
- Assuming Dry 2015 based on 2014
- Less storage Statewide
- Contingency Planning for
- Delta
- Urban Areas at Risk
- Ag and Environmental

Possible Actions for Dry 2015

- Reduced Project Deliveries
- Modified Delta Flow/Salinity Standards
- State Water Board Curtailments
- Drought Barrier Installation (one or more)
- Mandatory Conservation
- Increased Support to Very Small Communities
- Implementation of Contingency Plans and Use of Alternative Water Supplies
- Increased Oversight of Ground Water Use

Reservoir Conditions

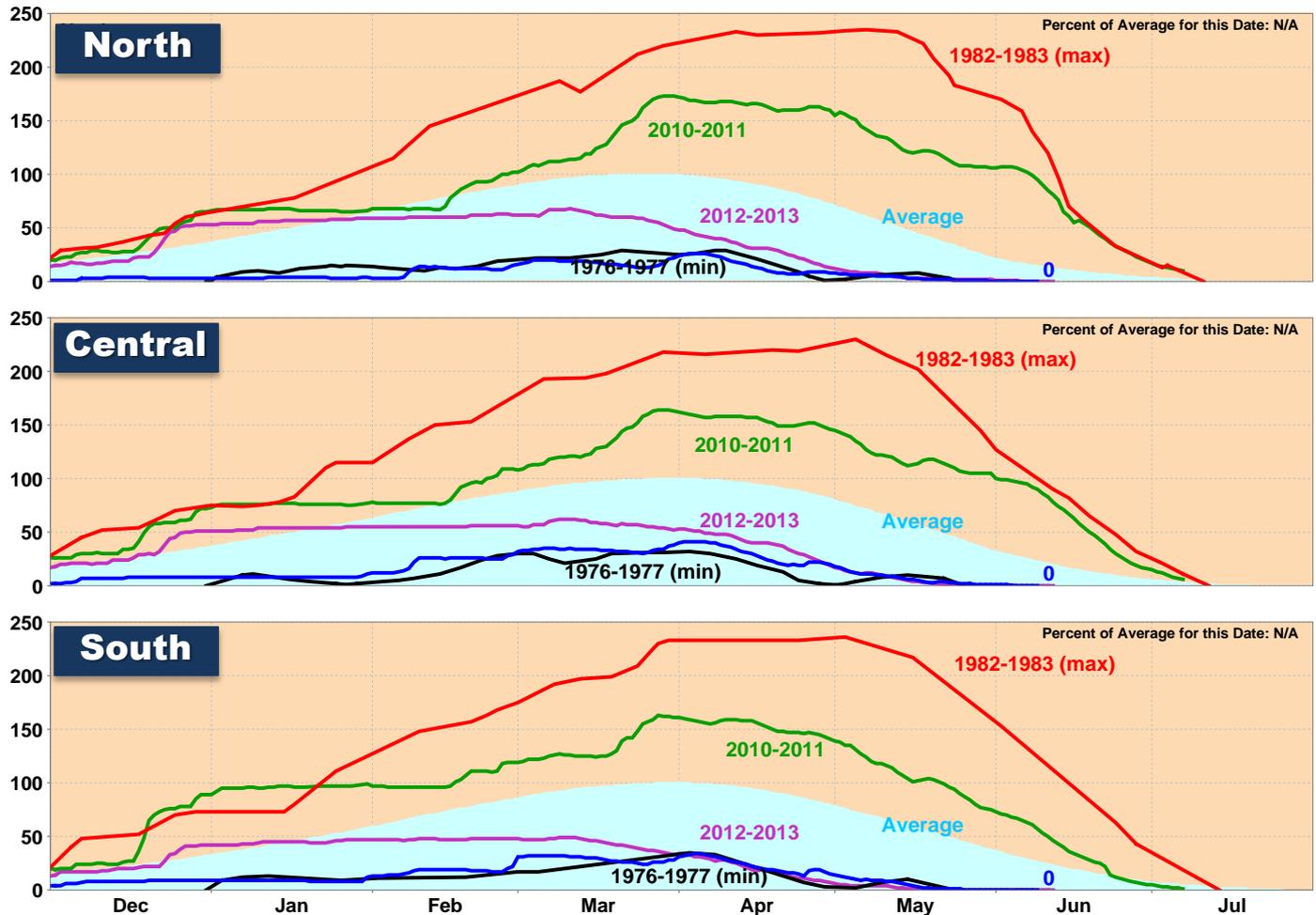
Half of Normal



Snowfall Levels

Record Lows

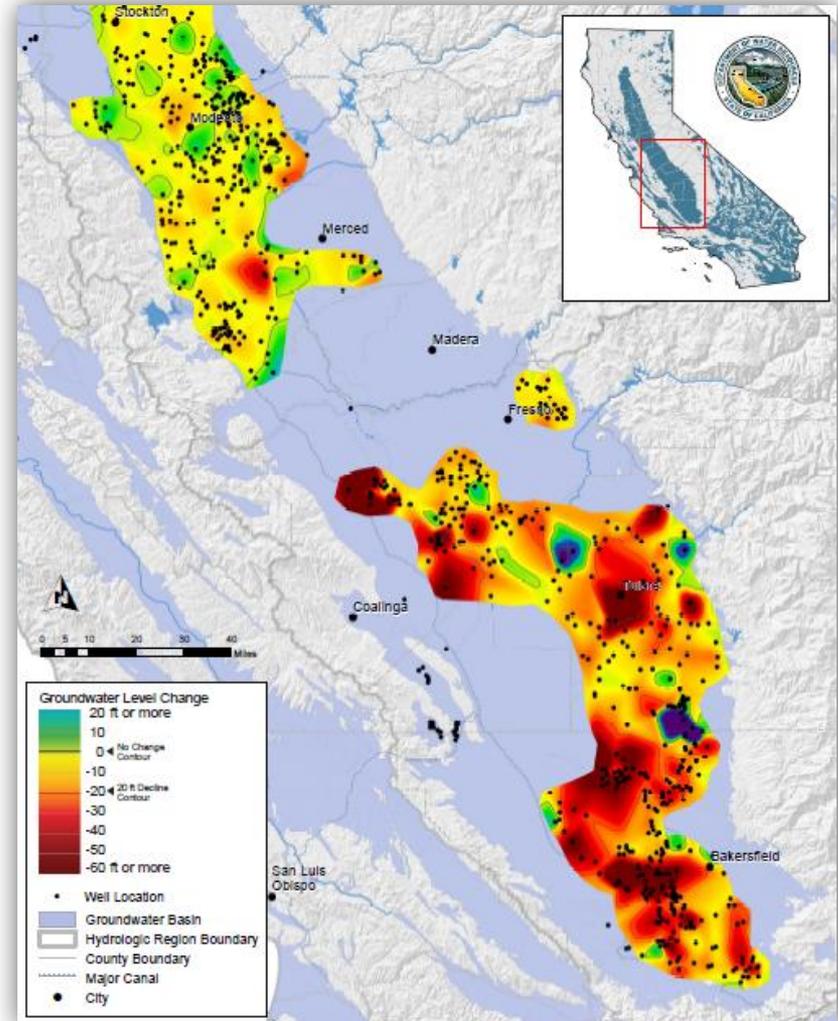
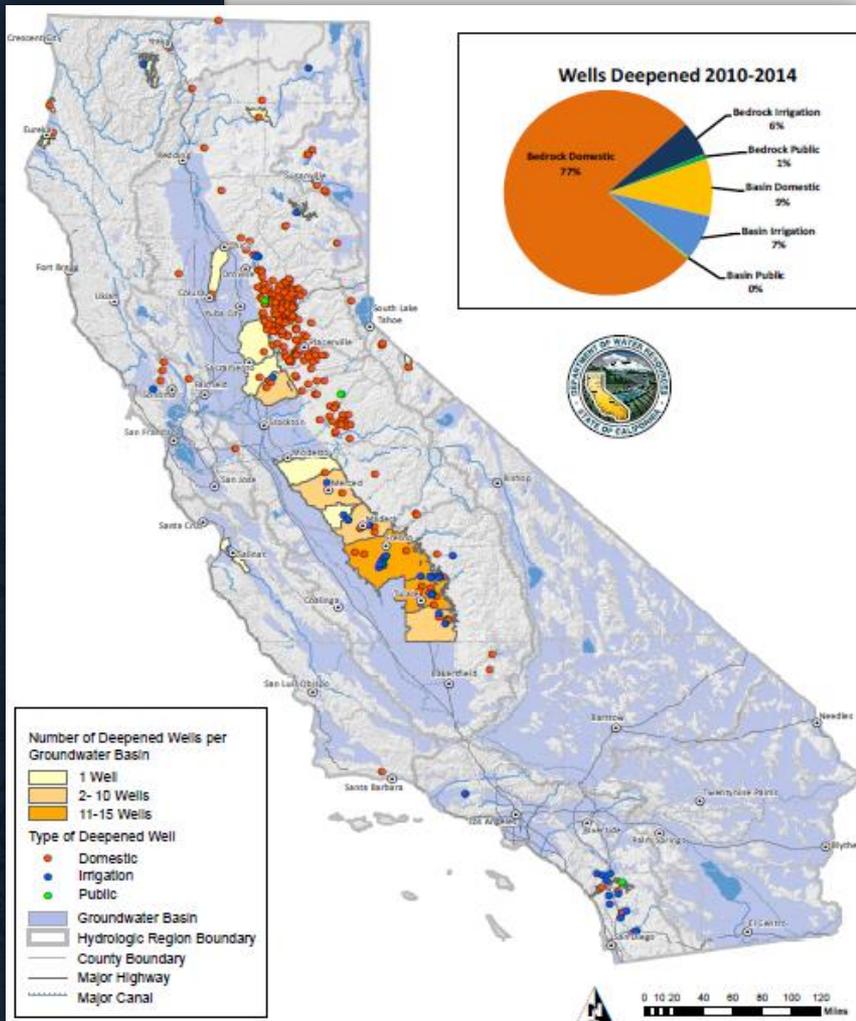
California Snow Water Content, June 9, 2014, Percent of April 1 Average



Statewide Percent of April 1: 0%

Statewide Percent of Average for Date: N/A

Groundwater Levels Dropping



Current Snapshot

Drought Monitor

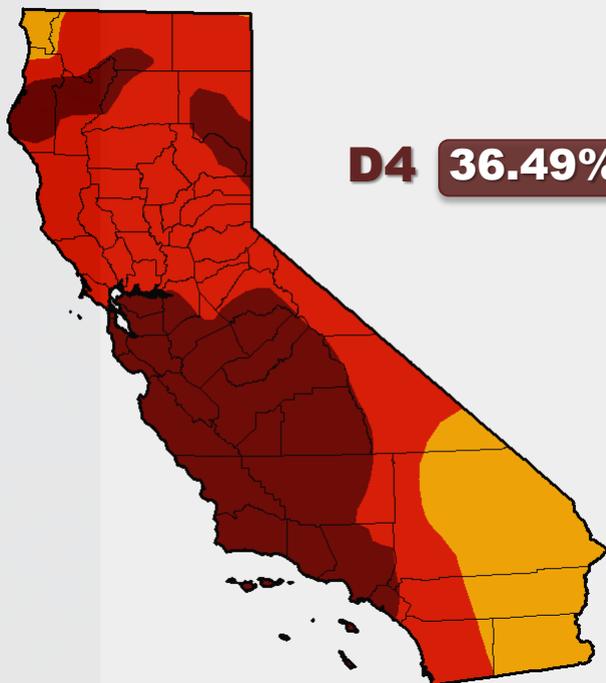
Drought Severity

 D0 - Abnormally Dry
 D1 Drought - Moderate

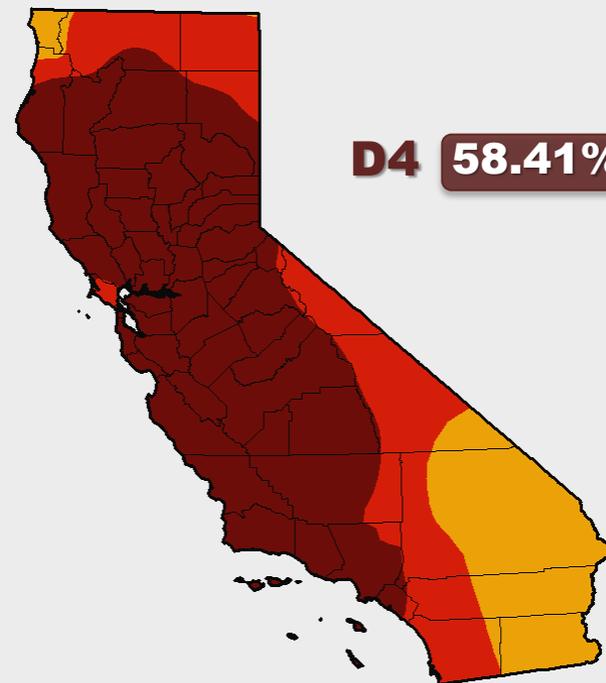
 D2 Drought - Severe
 D3 Drought - Extreme

 D4 Drought - Exceptional

July 22, 2014



July 29, 2014



Current Snapshot

Drought Monitor

Drought Severity

D0 - Abnormally Dry
 D1 Drought - Moderate

D2 Drought - Severe
 D3 Drought - Extreme

D4 Drought - Exceptional

Official State of Emergency
Declared in California on
January 17, 2014

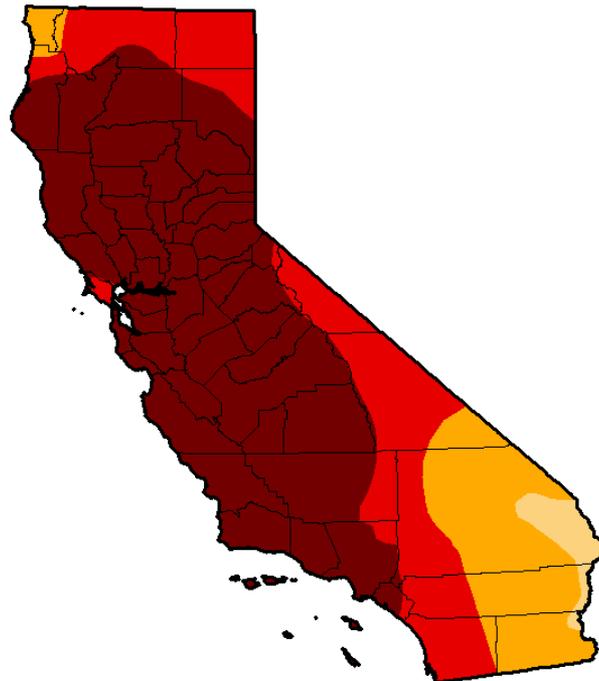
Local Emergencies Declared

- 25 Counties
- 13 Cities
- 09 Tribal Reservations
- 12 Special Districts

County & Tribal Drought Task Force

- 30 Counties
- 02 Tribes

U.S. Drought Monitor California



August 19, 2014

(Released Thursday, Aug. 21, 2014)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	100.00	97.59	81.92	58.41
Last Week <i>8/12/2014</i>	0.00	100.00	100.00	99.80	81.92	58.41
3 Months Ago <i>5/20/2014</i>	0.00	100.00	100.00	100.00	76.68	24.77
Start of Calendar Year <i>1/20/2013</i>	2.61	97.39	94.25	87.53	27.59	0.00
Start of Water Year <i>10/1/2013</i>	2.63	97.37	95.95	84.12	11.36	0.00
One Year Ago <i>8/20/2013</i>	0.00	100.00	98.23	93.86	11.36	0.00

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/>



Agriculture

Drought Impacts

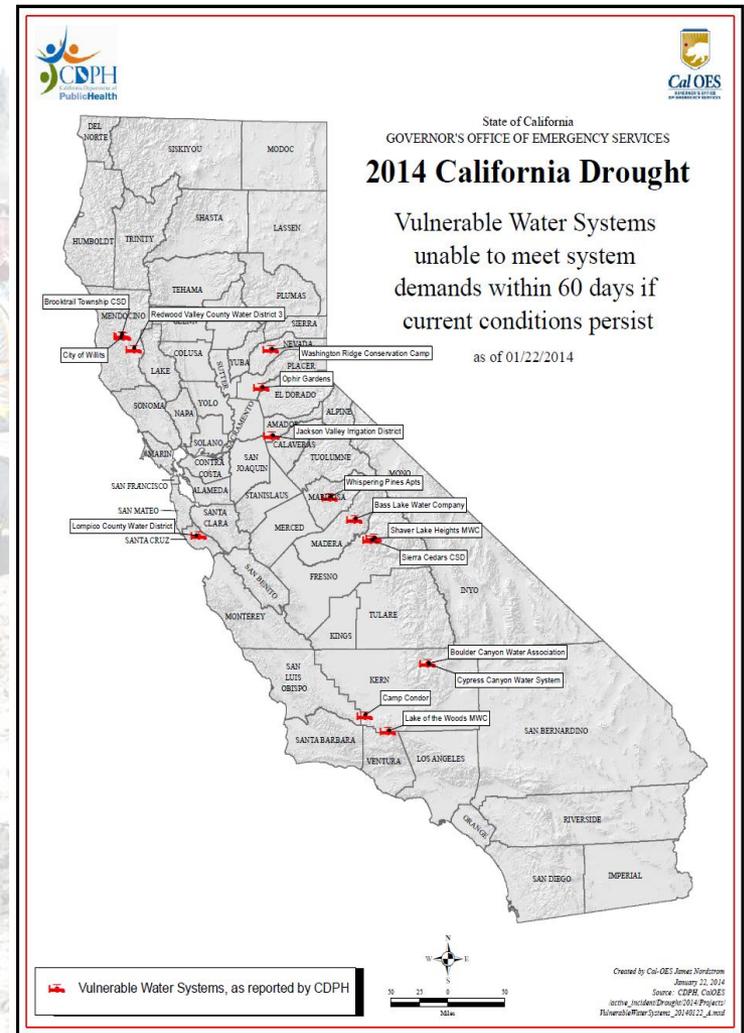
- **428,000 acres, or 5%**, of irrigated cropland is going out of production in the Central Valley, Central Coast and Southern California and the Inland Empire.
- Loss of **17,100** seasonal and part-time agricultural jobs represents 3.8 percent of farm employment in those areas.
- Direct costs to agriculture total **\$1.5 billion** (revenue losses of \$1 billion and \$0.5 billion in additional pumping costs).
- Total economic cost in those regions of **\$2.2 billion.**

Source: http://www.news.ucdavis.edu/search/news_detail.lasso?id=10978



Drinking Water^{Me} Drought Impacts

- Several cities and towns in danger of running out of drinking water in **60-90 days**.
- Several dozen communities on “critical watch” list: **120-150 days** from running out of drinking water.
- Domestic wells are already **dry** and we expect more to dry up as water tables decline.



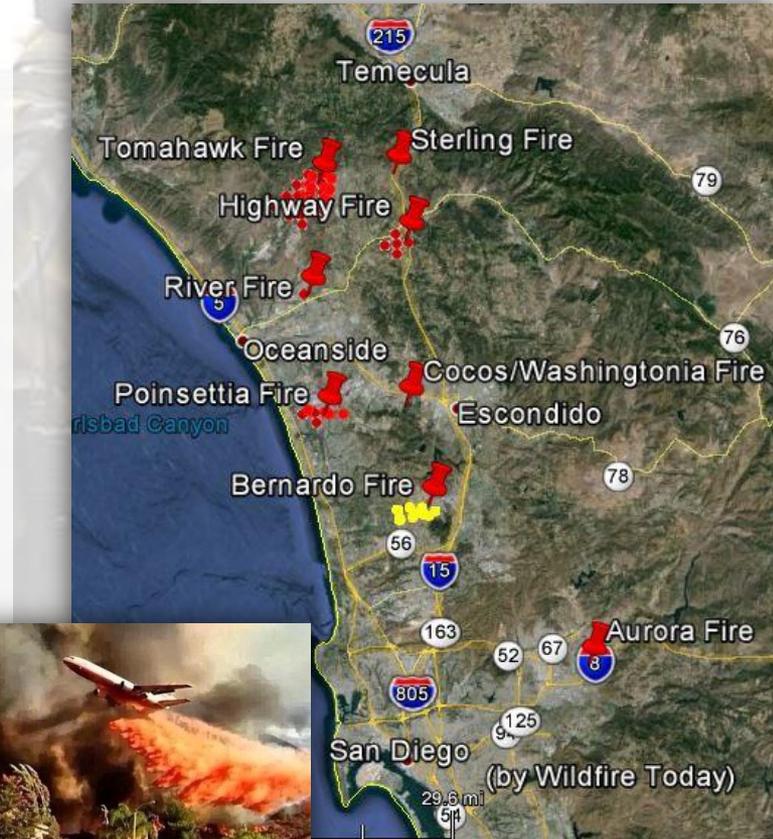


Wildfire Threats

Drought Impacts

CAL FIRE has responded to:

- **5,468** Wildfires across the state since January 1, 2014
- **4,389** Year-to-date average wildfires
- **92,027** Acres burned

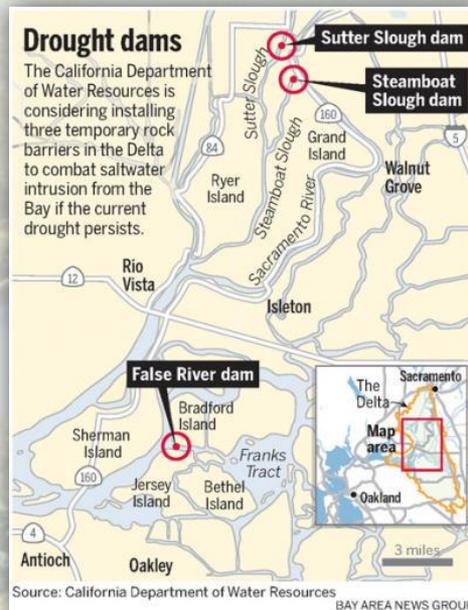




Environmental Threats

Drought Impacts

- Rivers and streams very low
- Saltwater intrusion into the Bay Delta
- Limited water for wildlife refuges





Conservation Awareness

Save Our Water Campaign



20% REDUCTION
in water use look like?

uses 196 gallons of water per day. Here are some easy ways to reduce water use. Find the right combination for you to reduce by 20% or 38 gallons a day.

196 GALLONS PER DAY

<p>INSTALL AERATORS ON BATHROOM FAUCETS <i>saves</i> 1.2 GALLONS per person/day</p>	<p>WASH ONLY FULL LOADS OF CLOTHES <i>saves</i> 15-45 GALLONS per load</p>
<p>TURN OFF WATER WHEN BRUSHING TEETH OR SHAVING <i>saves</i> 10 GALLONS per person/day</p>	<p>TAKE FIVE MINUTE SHOWERS INSTEAD OF 10 MINUTE SHOWERS <i>saves</i> 12.5 GALLONS with a water efficient showerhead</p>
<p>FILL THE BATHTUB HALFWAY OR LESS <i>saves</i> 14 GALLONS</p>	<p>INSTALL A WATER-EFFICIENT SHOWER HEAD <i>saves</i> 2.5 GALLONS</p>

Look for



687
Million

July
2
2014

July
29
2014

Emergency Drought Legislation

On February 27, the **\$687 million** emergency drought legislation was approved to provide immediate relief to drought-stricken communities.

Emergency Curtailment Regulations

Adopted on July 2, and enable the State Water Board to issue curtailments to additional junior water right holders on a real-time basis.

Urban Water Conservation Regulations

To increase conservation practices for all Californian's, the state's first-ever emergency regulations mandating urban water conservation became effective on July 29.



341,370

Food Assistance

The Department of Social Services has provided to date over 341,370 boxes of food to community food banks in drought impacted counties.



3,833

Rental Assistance

As of October 30, the Department of Housing and Community Development has reported that a total of \$7,522,723 is committed; and \$5,694,607 in funds has been issued to 3,833 applicants in 20 counties



1,411

Utility Assistance

As of October 31, the Department of Community Services has reported that a total of \$242,980 has been issued to 1,411 households.



Prop. 1

California Water Bond

On November 4, 2014, the voters of California approved a **\$7.5 billion water bond.**

The bond provides funds for:

- Water use Efficiency and Recycling
- Groundwater Cleanup and Management
- \$2.7 billion for additional Water Storage
- Invests in Safe Drinking Water
- Provides Watershed Restoration and Increased Flows



Questions?

