

Delta Stewardship Council

January 23, 2014

DROUGHT PREPAREDNESS & RESPONSE



Bill Croyle, Drought Manager
Department of Water Resources

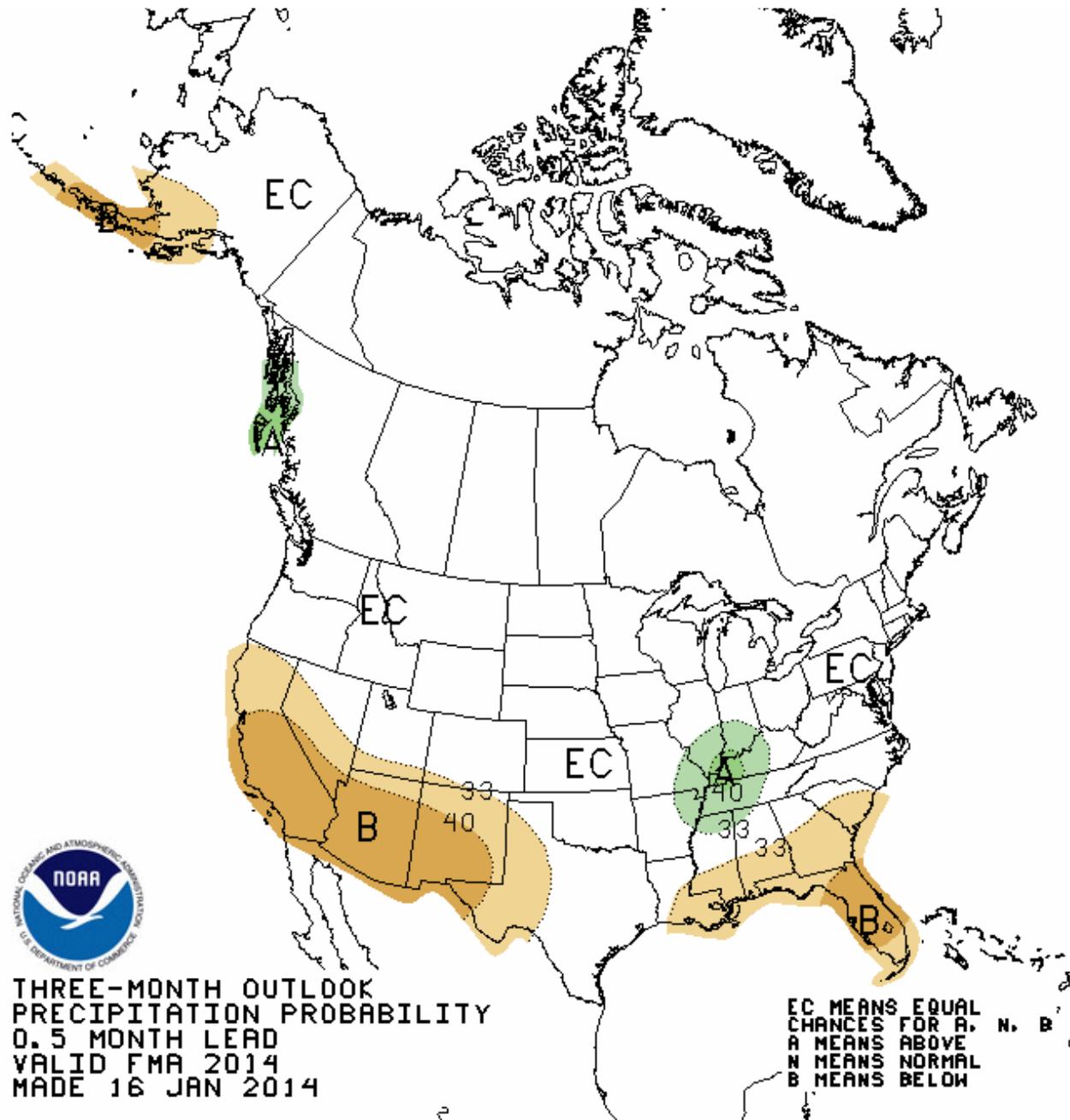
PUBLIC SAFETY

ENVIRONMENTAL STEWARDSHIP

ECONOMIC STABILITY

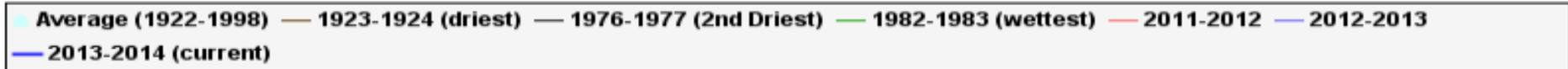
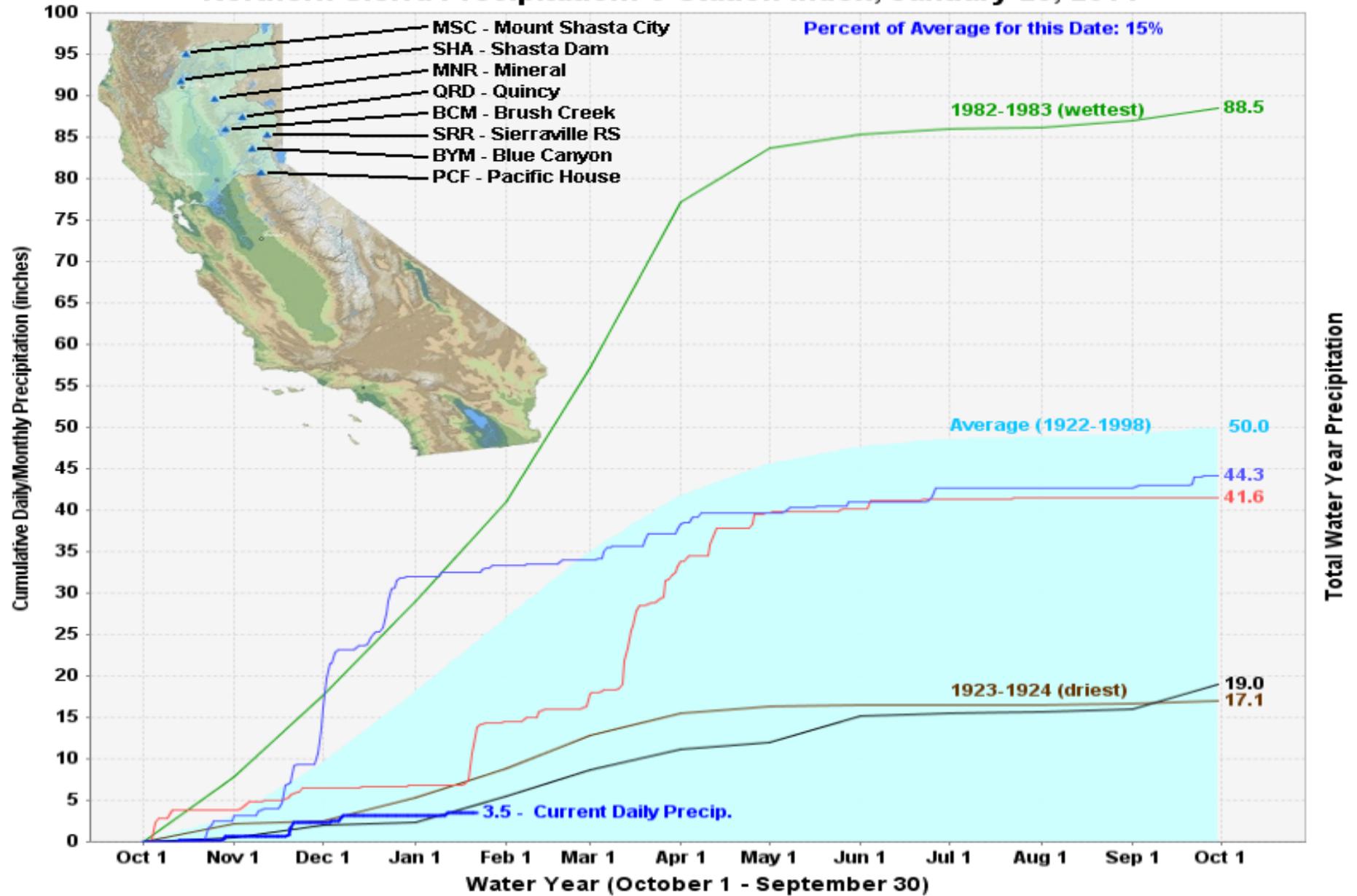
Overview

- **Current Conditions**
- **Governor's Action**
- **Unified Coordination Group**



**THREE-MONTH OUTLOOK
 PRECIPITATION PROBABILITY
 0.5 MONTH LEAD
 VALID FMA 2014
 MADE 16 JAN 2014**

Northern Sierra Precipitation: 8-Station Index, January 23, 2014

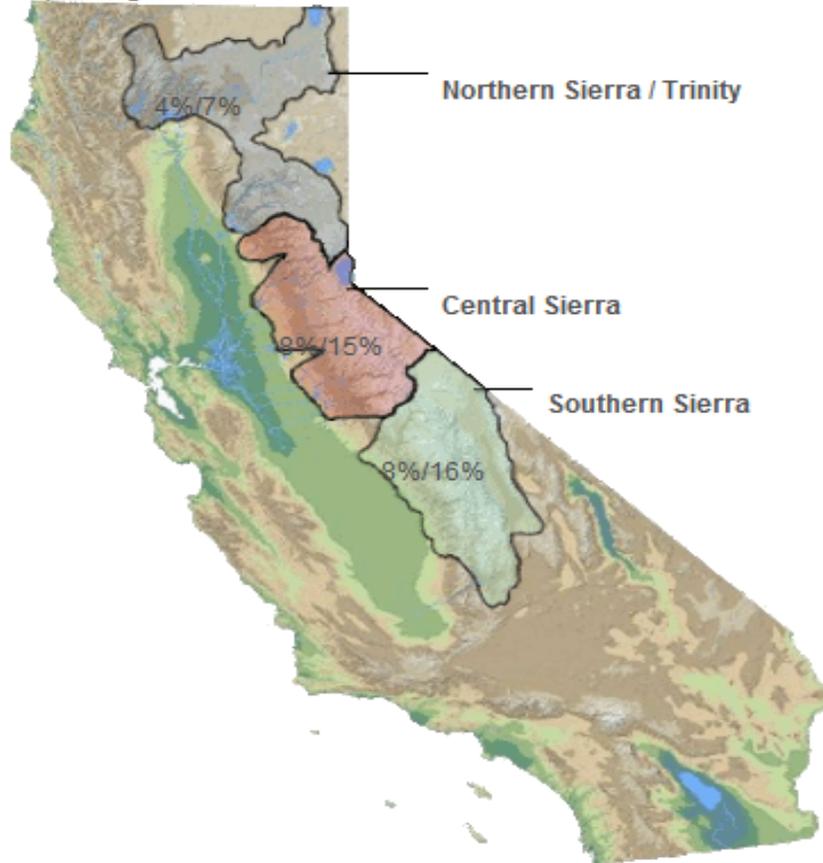


→ Snow Water Equivalents (inches)

Provided by the California Cooperative Snow Surveys

Data For: 23-Jan-2014

% Apr 1 Avg. / % Normal for this Date



NORTH

Data For: 23-Jan-2014

Number of Stations Reporting	32
Average snow water equivalent	1.1"
Percent of April 1 Average	4%
Percent of normal for this date	7%

CENTRAL

Data For: 23-Jan-2014

Number of Stations Reporting	44
Average snow water equivalent	2.4"
Percent of April 1 Average	8%
Percent of normal for this date	15%

SOUTH

Data For: 23-Jan-2014

Number of Stations Reporting	30
Average snow water equivalent	2.1"
Percent of April 1 Average	8%
Percent of normal for this date	16%

STATEWIDE SUMMARY

Data For: 23-Jan-2014

Number of Stations Reporting	106
Average snow water equivalent	1.9"
Percent of April 1 Average	7%
Percent of normal for this date	13%

Change Date :



23-Jan-2014

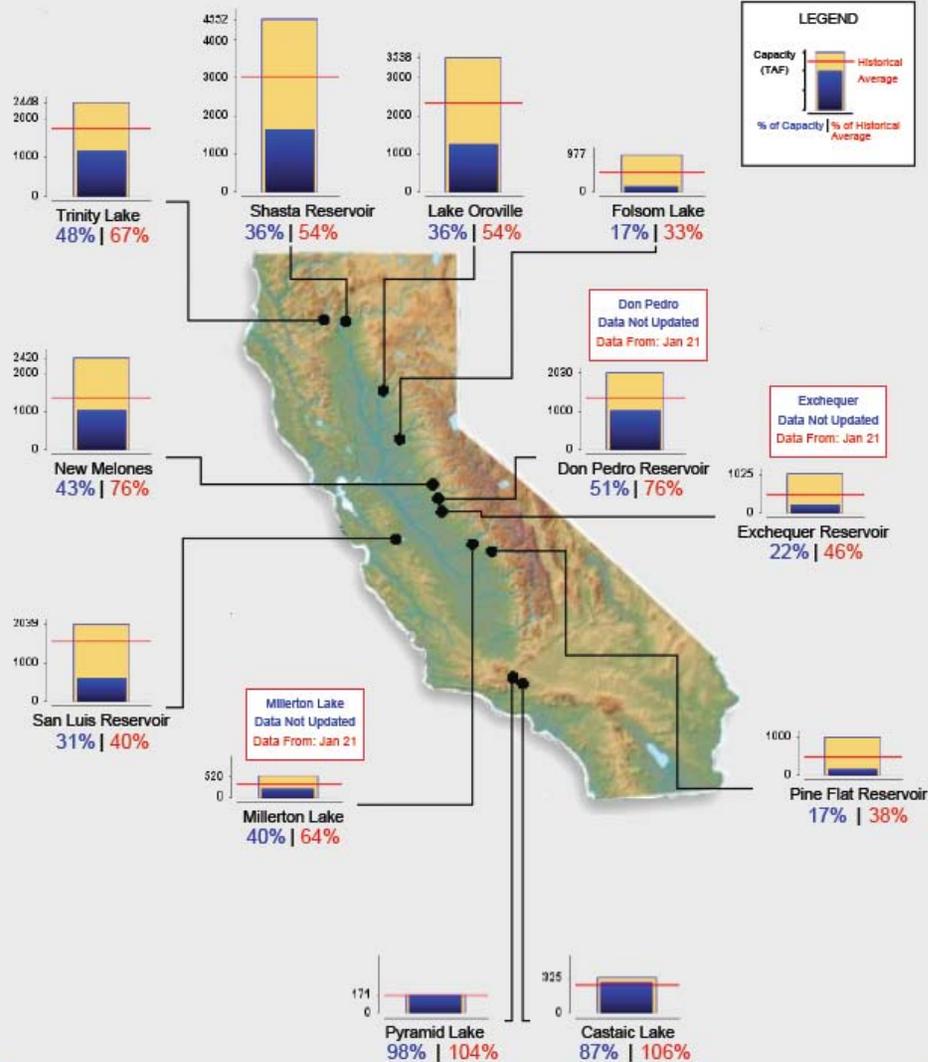
Refresh Data



Reservoir Conditions

Ending At Midnight - January 22, 2014

CURRENT RESERVOIR CONDITIONS



Graph Updated 01/23/2014 08:15 AM

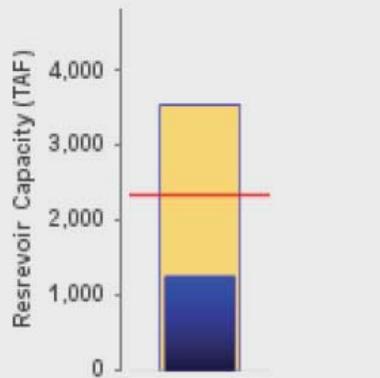


Reservoir Conditions - Lake Oroville



Lake Oroville Conditions

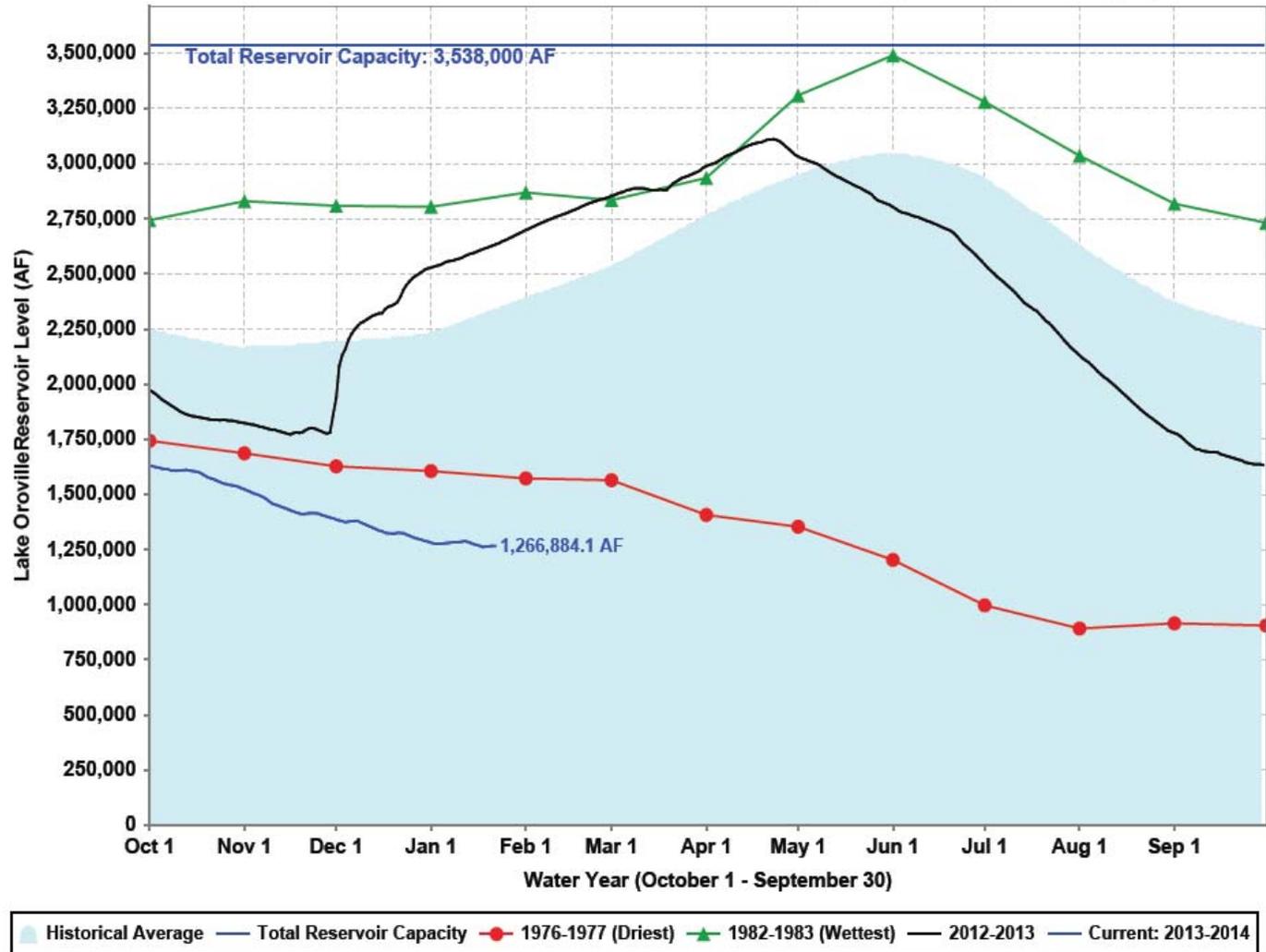
(as of Midnight - January 22, 2014)



Current Level: 1,266,884.1 AF

36% (Total Capacity) | 54% (Historical Avg.)

Lake Oroville Levels: Various Past Water Years and Current Water Year, Ending At Midnight January 22, 2014



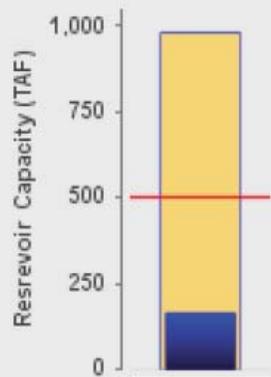


Reservoir Conditions - Folsom Lake



Folsom Lake Conditions

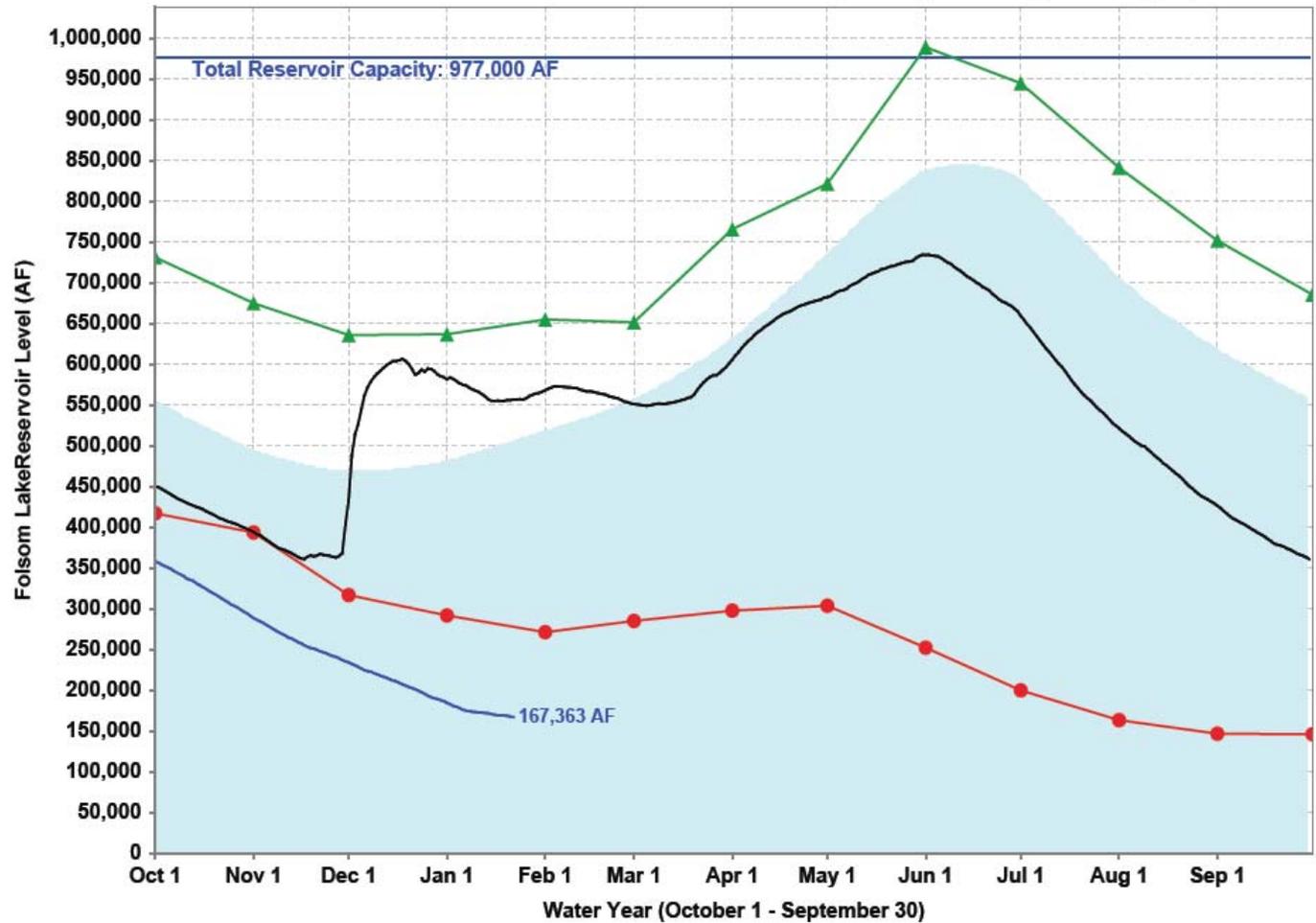
(as of Midnight - January 22, 2014)



Current Level: 167,363 AF

17% (Total Capacity) | 33% (Historical Avg.)

Folsom Lake Levels: Various Past Water Years and Current Water Year, Ending At Midnight January 22, 2014



■ Historical Average
 — Total Reservoir Capacity
 ● 1976-1977 (Driest)
 ▲ 1982-1983 (Wettest)
 — 2012-2013
 — Current: 2013-2014

ACTIONS

- **Draft Governor's Water Action Plan**
- **California Water Plan Update 2013**
- **Executive Order B-21-13**
- **Drought Task Force**
- **Governor's Proclamation**

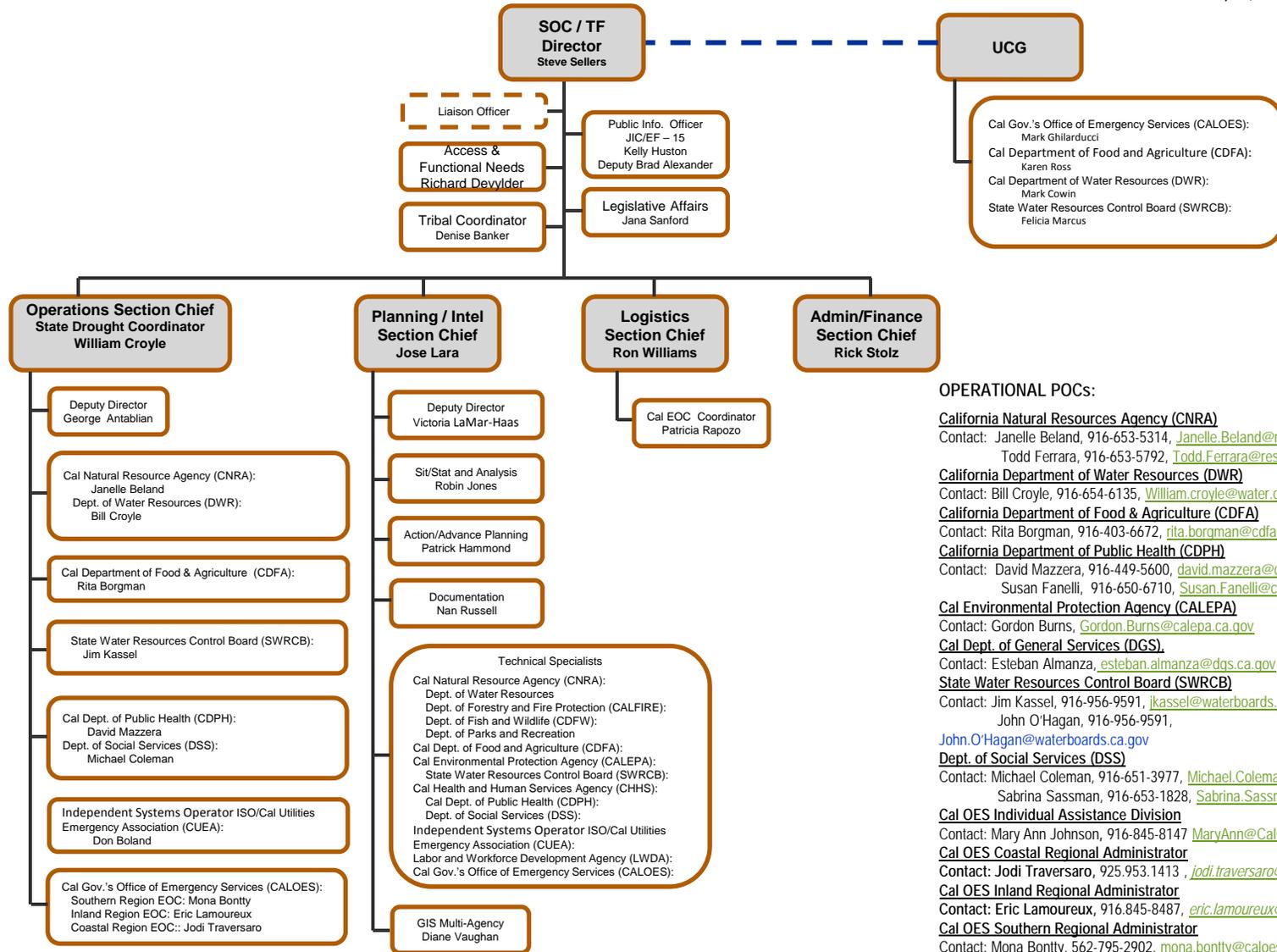
GOVERNOR'S PROCLAMATION

- Conservation – 20%
- Water Contingency Plans
- State Agencies
- Water Transfers
- Consolidate Place of Use
- Shovel Ready Projects
- Notice on Diversions
- WQCP – Cold Water, WQ
- Drinking Water Assistance
- Groundwater Report
- Well Drilling / Local Impacts
- CDFA Website
- DFW – Contingency Plans, Fish
- Delta Actions
- Climate Forecasting
- CalFire – Staff and Action
- Task Force – Food, Money, Services
- Task Force - Monitor

2014 Drought Task Force

Organizational Chart

As of: January 17, 2014



OPERATIONAL POCs:

California Natural Resources Agency (CNRA)
Contact: Janelle Beland, 916-653-5314, Janelle.Beland@resources.ca.gov
Todd Ferrara, 916-653-5792, Todd.Ferrara@resources.ca.gov

California Department of Water Resources (DWR)
Contact: Bill Croyle, 916-654-6135, William.croyle@water.ca.gov

California Department of Food & Agriculture (CDFA)
Contact: Rita Borgman, 916-403-6672, rita.borgman@cdfa.ca.gov

California Department of Public Health (CDPH)
Contact: David Mazzerza, 916-449-5600, david.mazzerza@cdph.ca.gov
Susan Fanelli, 916-650-6710, Susan.Fanelli@cdph.ca.gov

Cal Environmental Protection Agency (CALEPA)
Contact: Gordon Burns, Gordon.Burns@calepa.ca.gov

Cal Dept. of General Services (DGS)
Contact: Esteban Almanza, esteban.almanza@dgs.ca.gov

State Water Resources Control Board (SWRCB)
Contact: Jim Kassel, 916-956-9591, jkassel@waterboards.ca.gov
John O'Hagan, 916-956-9591,
John.O'Hagan@waterboards.ca.gov

Dept. of Social Services (DSS)
Contact: Michael Coleman, 916-651-3977, Michael.Coleman@dss.ca.gov
Sabrina Sassman, 916-653-1828, Sabrina.Sassman@dss.ca.gov

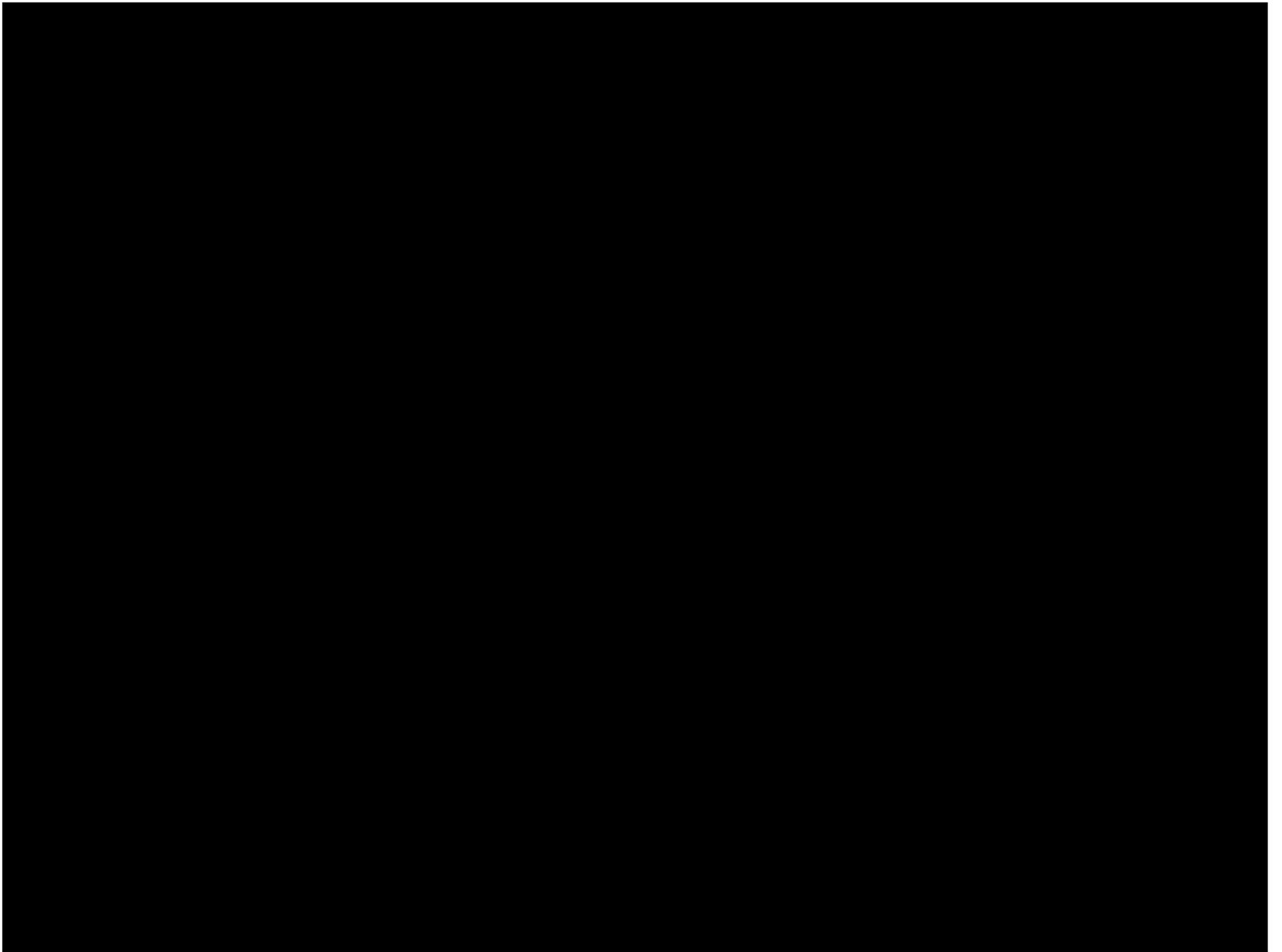
Cal OES Individual Assistance Division
Contact: Mary Ann Johnson, 916-845-8147, MaryAnn@CalOES.ca.gov

Cal OES Coastal Regional Administrator
Contact: Jodi Traversaro, 925-953-1413, jodi.traversaro@calema.ca.gov

Cal OES Inland Regional Administrator
Contact: Eric Lamoureux, 916.845-8487, eric.lamoureux@caloes.ca.gov

Cal OES Southern Regional Administrator
Contact: Mona Bontty, 562-795-2902, mona.bontty@caloes.ca.gov

CUEA Executive Director
Contact: Don Boland, 916-845-8517, Don.Boland@calOES.ca.gov



Information and Contacts

- Drought Management Operations Center (916) 574-2619
- Public CDEC access - <http://cdec.water.ca.gov>
- Agency access - <http://cdec4gov.water.ca.gov>
Call (916) 574-1777 to Apply
- Webcast Weather/Hydrology Briefings – wx_webcast-request@water.ca.gov
- Web Links
 - Water Conditions: <http://water.ca.gov/waterconditions/>
 - Water Transfers: <http://water.ca.gov/watertransfers/>
 - Drought Page: <http://water.ca.gov/waterconditions/drought/>
 - Public Affairs: <http://water.ca.gov/publicaffairs.cfm>

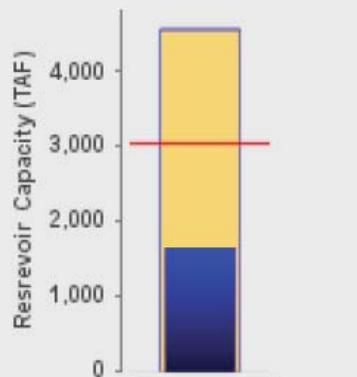


Reservoir Conditions - Shasta Reservoir



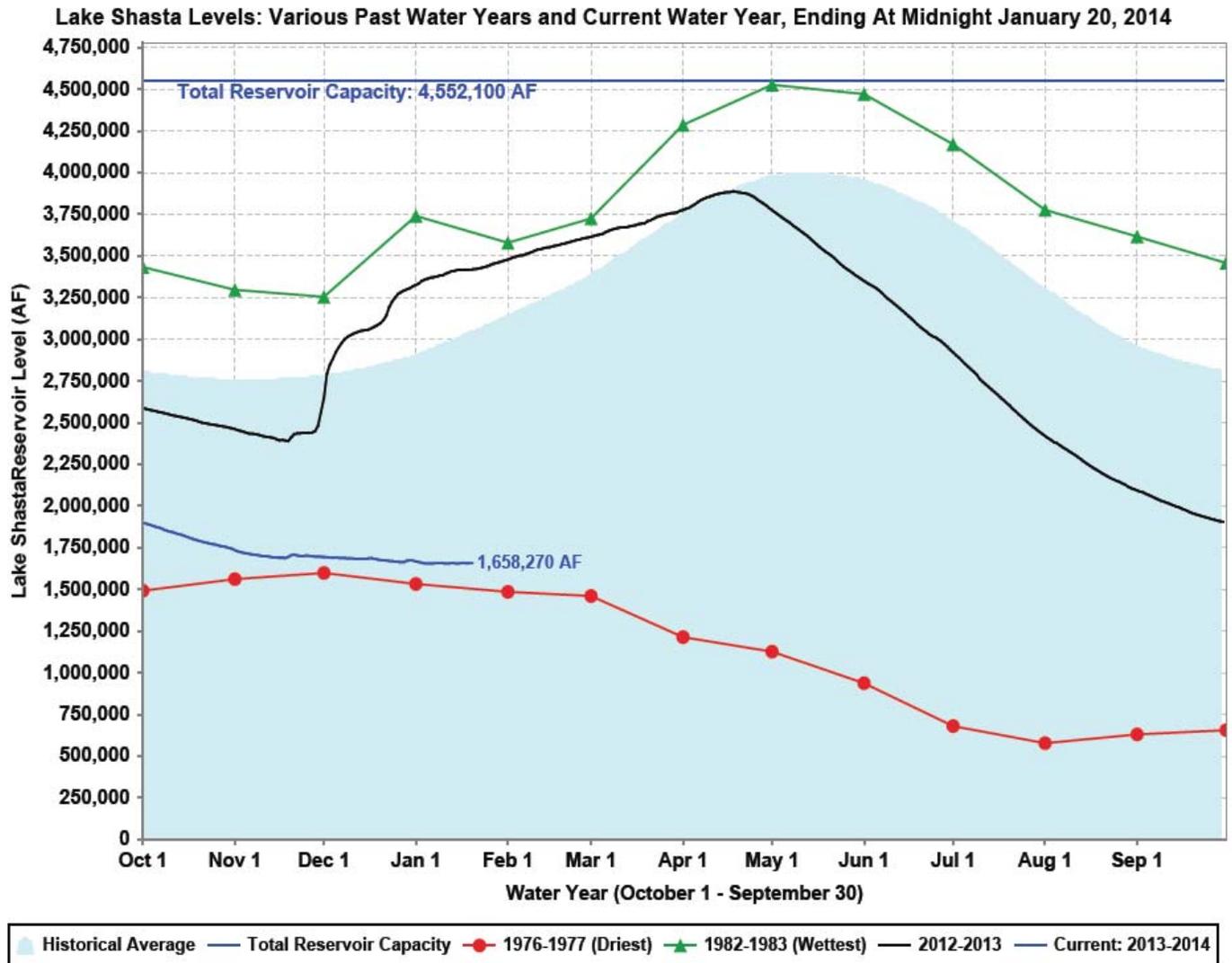
Lake Shasta Conditions

(as of Midnight - January 20, 2014)

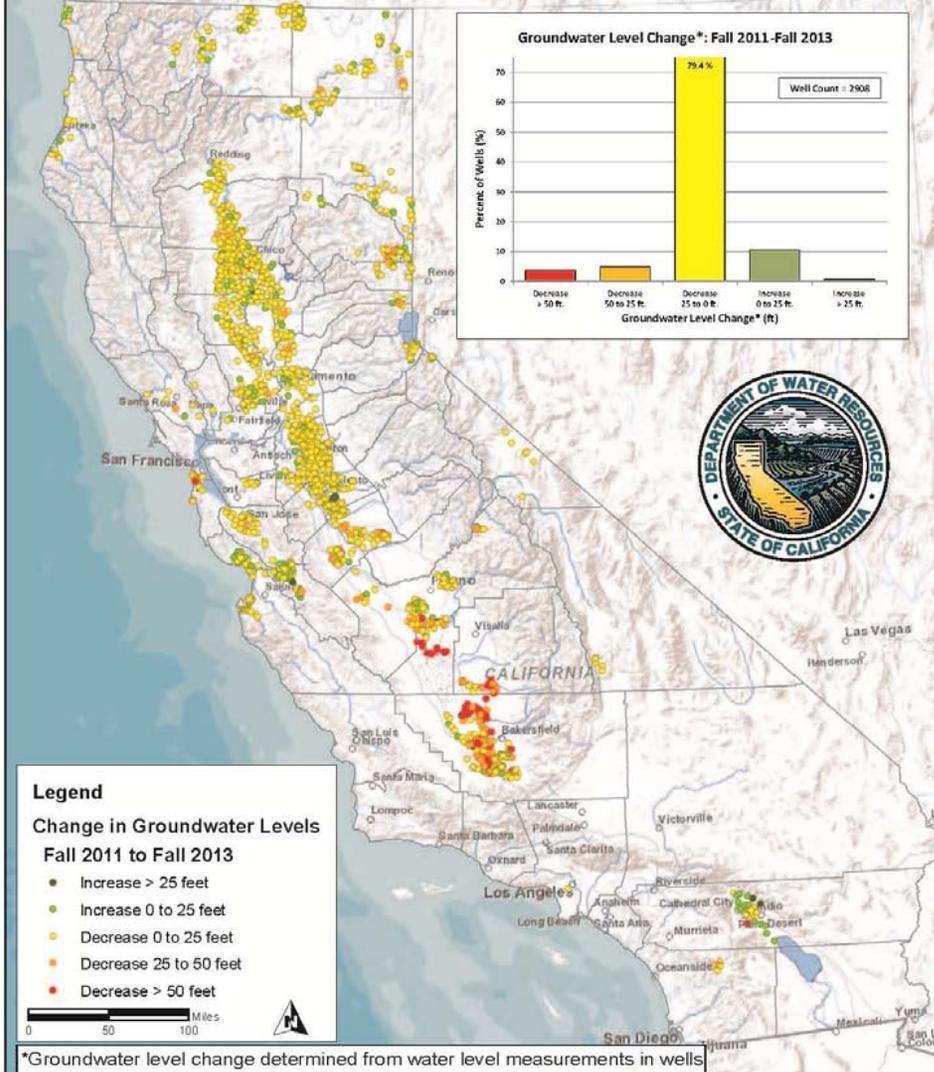


Current Level: 1,658,270 AF

36% (Total Capacity) | 54% (Historical Avg.)



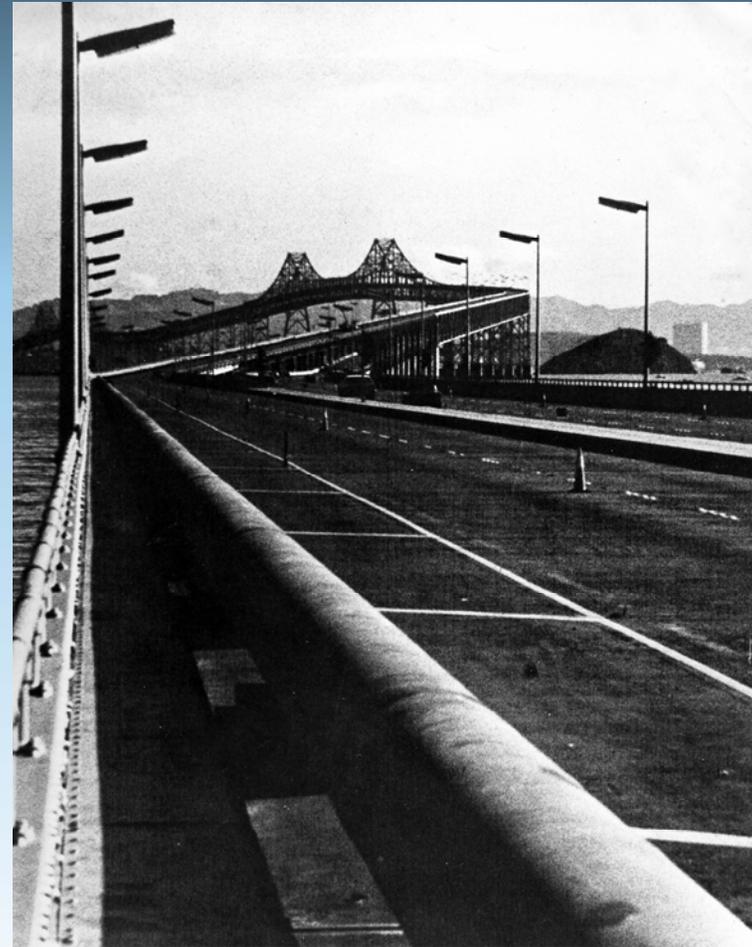
Annual Groundwater Level Change* Fall 2011 to Fall 2013 (Draft)



Draft - Map and chart based on available data from the DWR Water Data Library as of 12/23/2013
Document Name: DOTMAP_F2011_F2013_U Updated: 12/23/2013 Print Date: 12/23/2013

1976-77

- State population about 22 million
- 1977 – driest year of record for statewide runoff (21% of average)
- 47 of 58 counties declared local emergencies
- Marin County emergency pipeline across San Rafael Bridge



2007-09

- Southern California cities again set dry year records.
- 2007 Southern California wildfires
- CVP Westside SJV ag deliveries: 50%, 40%, 10%
- SWP deliveries: 60%, 35%, 40%
- Affected areas – Westside SJV, Russian River

Water Transfers

- **Executive Order B-21-13 in May 2013 to expedite review and processing of voluntary water transfers**
- **DWR working to streamline process**
 - Improving contracting procedures for transfers dependent on SWP facilities
 - Facilitating fast-tracking of transfers with appropriate supporting documentation
 - Improving coordination with other agencies involved in approving transfers, including SWRCB & USBR

Greatest Risks in 2014

- **Health & safety and economic**
 - Catastrophic wildfires (e.g., Southern California in 2003 and 2007)
- **Health & safety**
 - Impacts to small water systems in rural areas (including wildfire damage)
- **Environmental**
 - Continued San Joaquin Valley land subsidence, spawning beds
- **Economic**
 - Minimal water allocations to some agricultural water users, particularly in the San Joaquin Valley

Statewide Drought Management Challenges

- **Delta conveyance**
- **Ability to monitor statewide groundwater conditions and impacts (subsidence)**
- **Assistance for marginal small water systems on fractured rock groundwater sources in rural areas**

Working with JPL to Continue San Joaquin Valley Subsidence Monitoring - Needs

