

# California's Drought

- Water supply conditions
- Drought impacts and response
- Planning for a dry 2010



San Luis Reservoir

# Climate Change Impacts to Water Resources

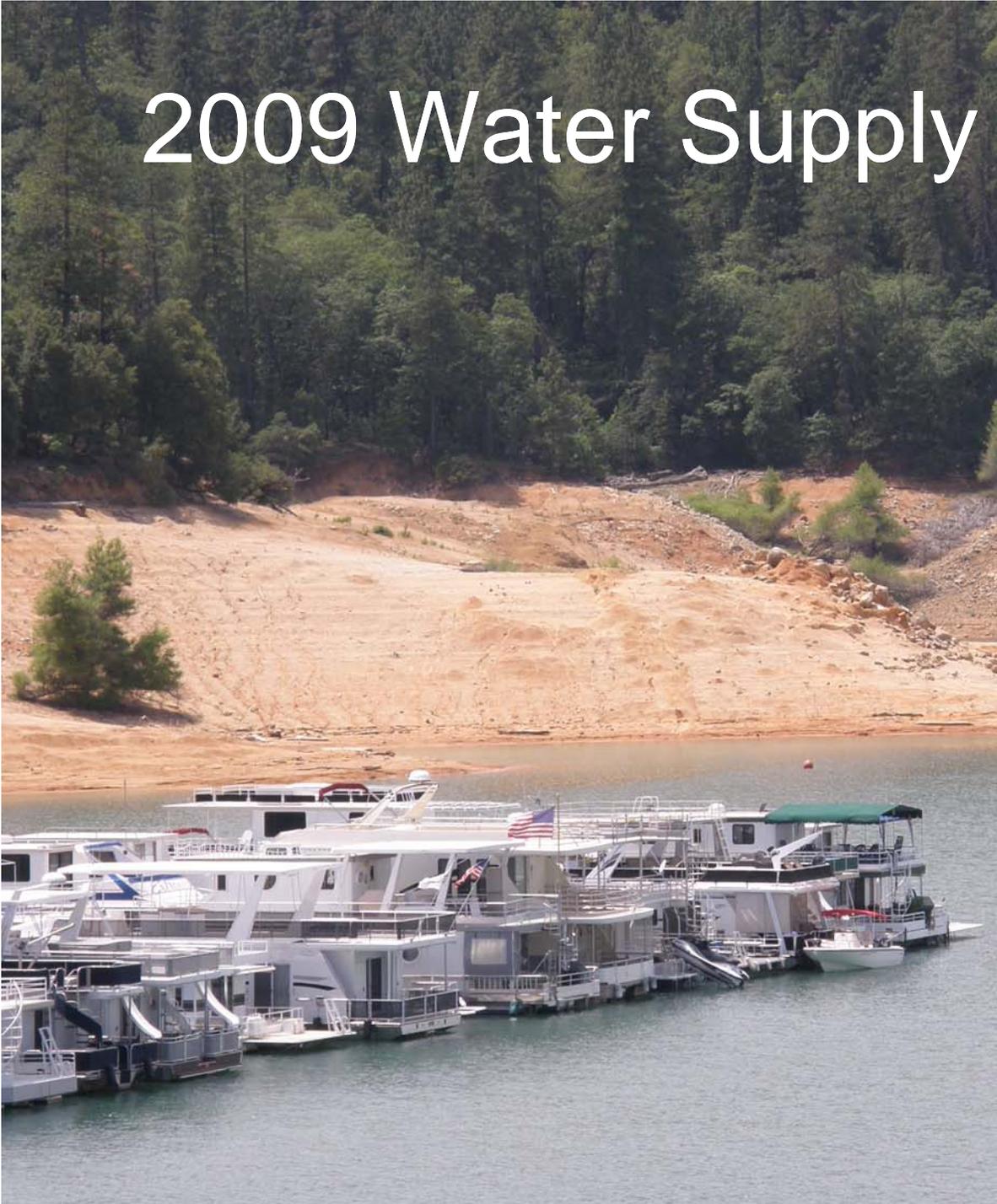


- Diminishing snowpack
- More extreme weather patterns
- Rising sea level
- Higher air/water temperatures impacting ecosystem health
- Increased uncertainty

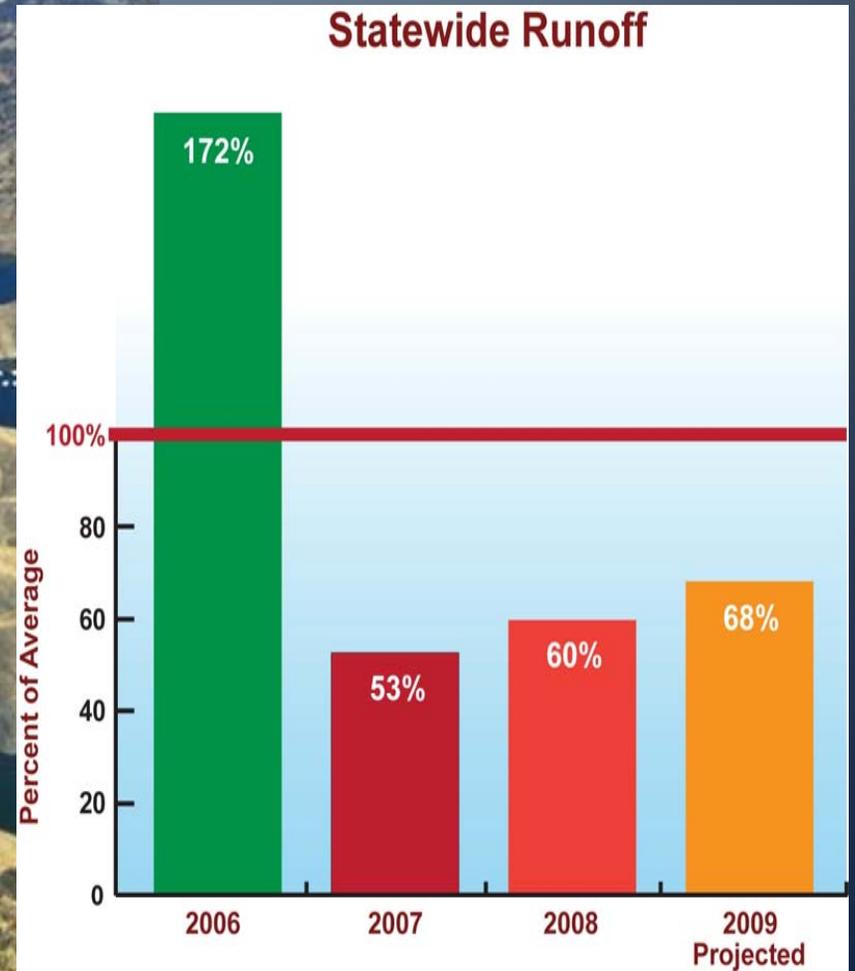
# 2009 Water Supply Conditions

- 2009 Statewide runoff projected at 68%
- Groundwater levels declining
- Major water supply reservoirs remain low
- State and federal water projects restricted by regulatory actions to protect the Delta
- SWP/CVP allocations near record lows

Lake Shasta



# 2009 Water Supply Conditions

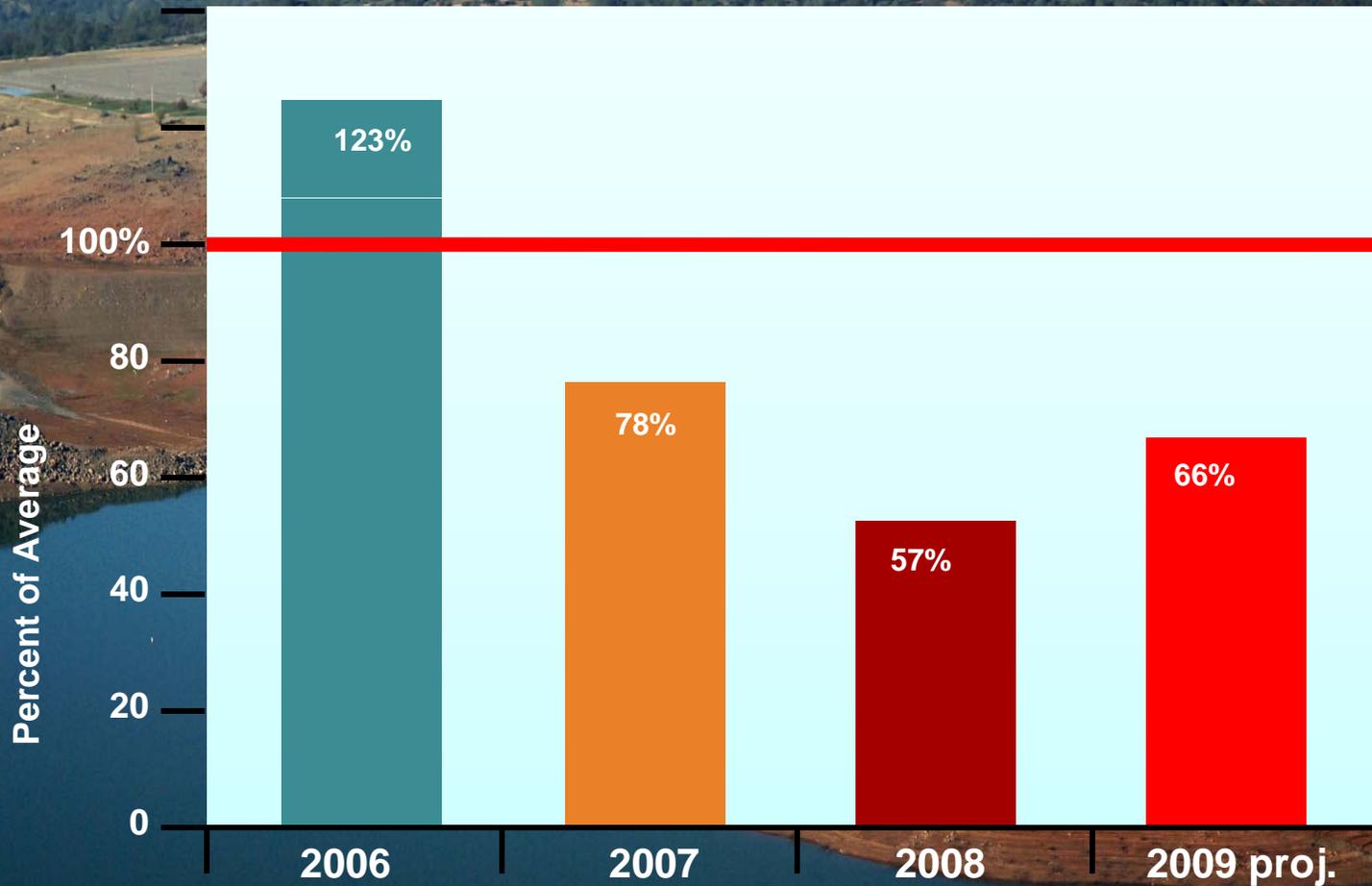


Lake McClure

# Carryover Storage

## Major Reservoirs

(Trinity, Shasta, Oroville, Folsom, New Melones, Don Pedro, San Luis)



# Oroville Reservoir



Lake Oroville 2005



Lake Oroville October 2008

# San Luis Reservoir



San Luis Reservoir March 1995



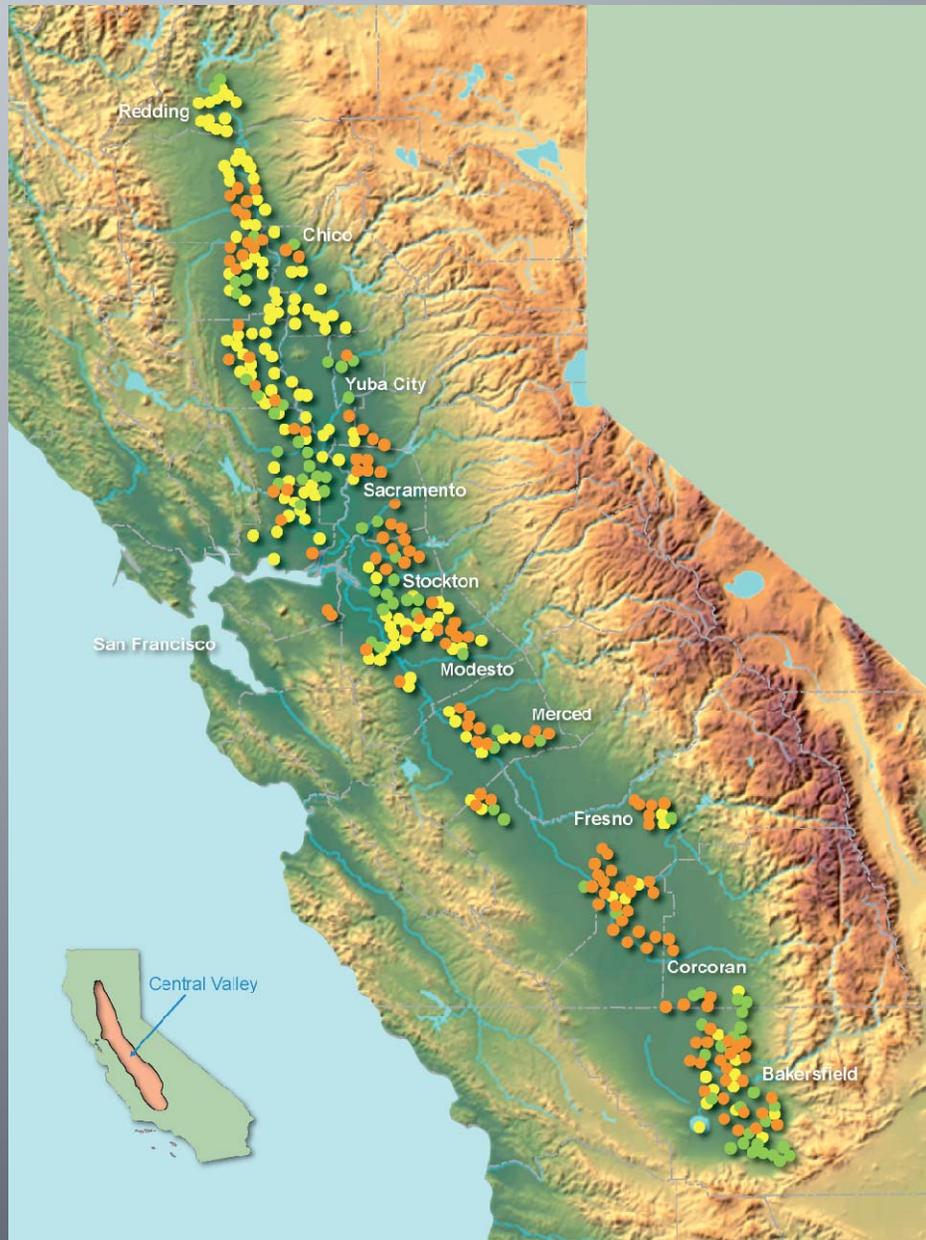
San Luis Reservoir August 2008



San Luis Reservoir June 2009

# Groundwater

- Water levels **ABOVE** drought period water levels
- Water levels About the **SAME** as drought period water levels
- Water levels **BELOW** drought period water levels



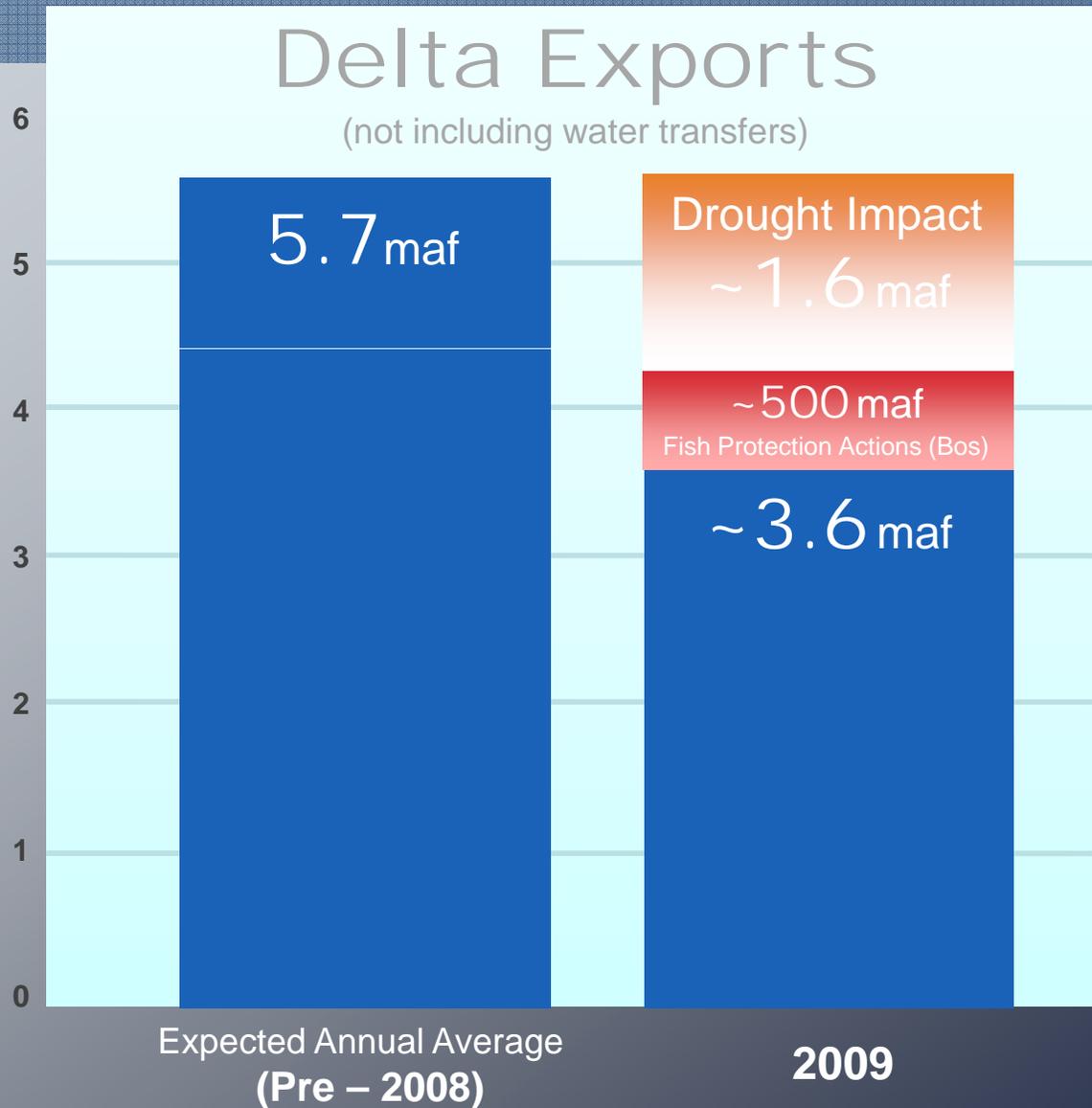
# Estimated 2009 Water Supply

Year	Type	CVP Allocation South of Delta	SWP Allocation
2006	Wet	100% ag / 100% m&i	100%
2007	Dry	50% ag / 75% m&i	60%
2008	Critical	40% ag / 75% m&i	35%
2009	Dry	10% ag / 60% m&i	40%



Classifications: Wet, Above Normal, Below Normal, Dry, Critical

# 2009 Water Supply Conditions



# 2009 Water Transfers



Drought Water Bank	81,275
Private North to South Transfers	250,500
Private North to North Transfers	80,640
Private South to South Transfers	200,000
<b>Total</b>	<b>612,415</b>

San Luis

# Drought 1991 vs. 2009



- 10 million new residents
- Shift from row crops to permanent crops
- Fish species at risk
- Restrictions reduce flexibility of water operations
- Climate change



# Drought Impacts



- 2008 - Agriculture \$370M
- Water rationing
- Fire
- Economic development
- Hydropower generation
- Recreation
- Air Quality

# Drought Response



Governor Schwarzenegger signs drought declaration

- 2008 Drought Declaration
- 2008 Drought Emergency Declaration – Nine Counties
- 2009 Statewide Drought Emergency

# Statewide Water Conservation Campaign



Californians are learning that small changes in their water use can make a big difference.

[learn more...](#)

[www.saveourH2O.org](http://www.saveourH2O.org)



# Preparing for a Dry 2010

## Drought Preparedness

- “Get Ready” workshops
- 5 year strategic plan
- Consultation with world wide drought efforts

Folsom Reservoir



# Preparing for a Dry 2010

## Water Conservation

- 20 by 2020
- Recycled water - purple is the new green
- Statewide Save Our Water program

[saveourh2o.net](http://saveourh2o.net)



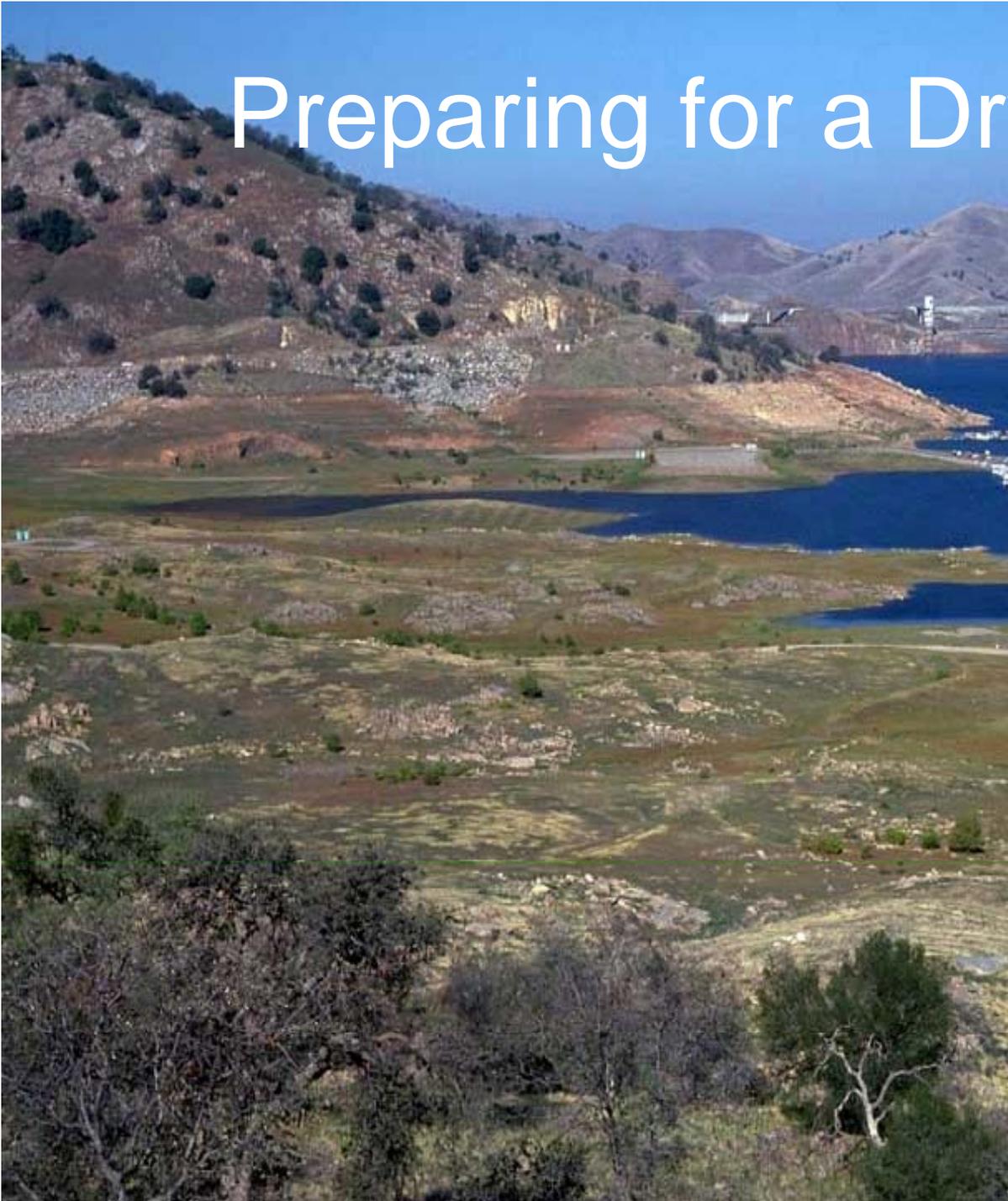
Lake Oroville

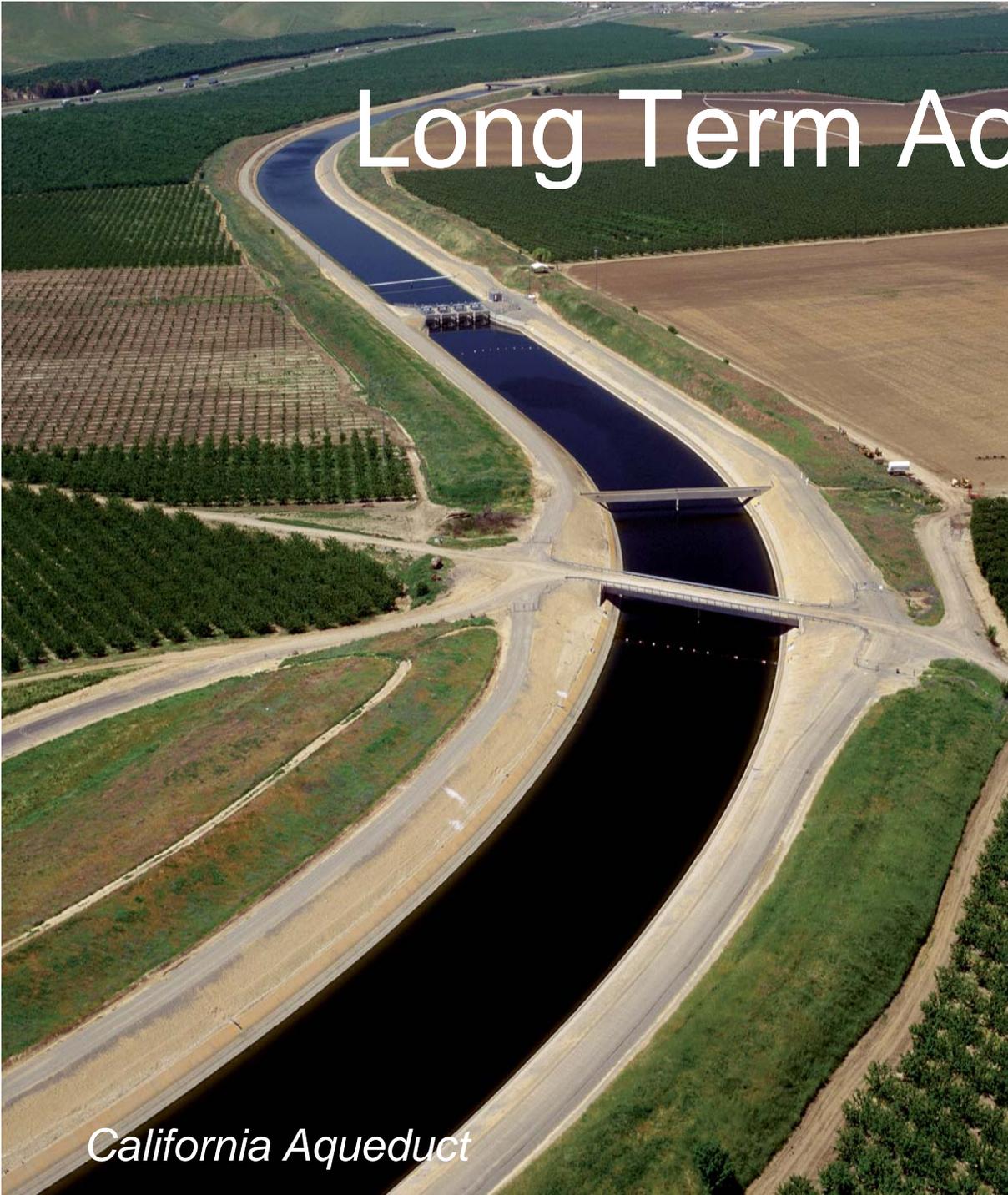
# Preparing for a Dry 2010

## Water Supply

- 2010 water transfers & long-term program
- CIMIS
- Conjunctive use and groundwater mgnt
- Emergency response

Kaweah Reservoir





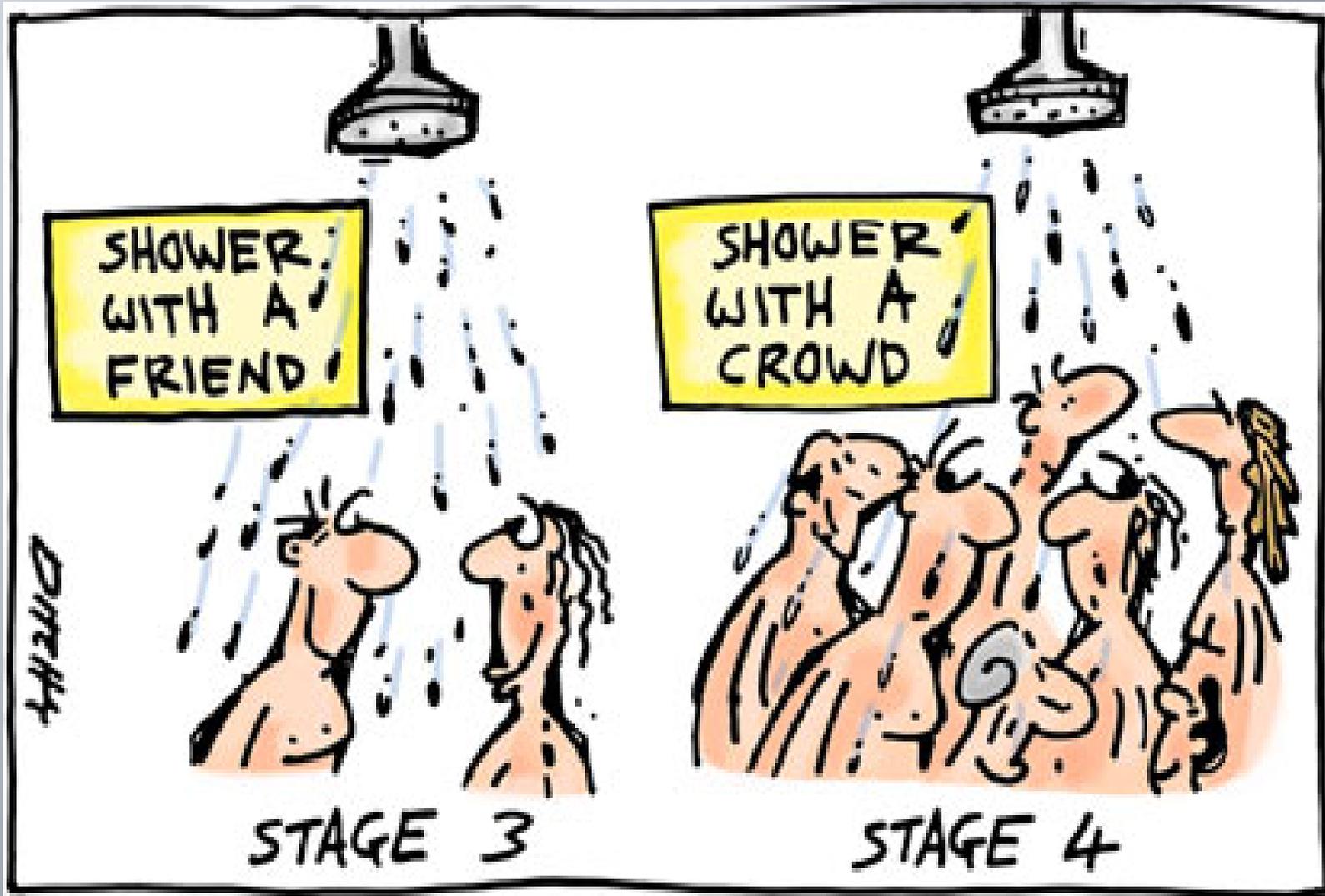
# Long Term Actions

- Increase conservation
- Diversify regional supplies
- Increase storage
- Fix the Delta
- Sustain investment

*California Aqueduct*

**“When the well is dry,  
we know the worth  
of water”**

**Benjamin Franklin**



# Questions?

