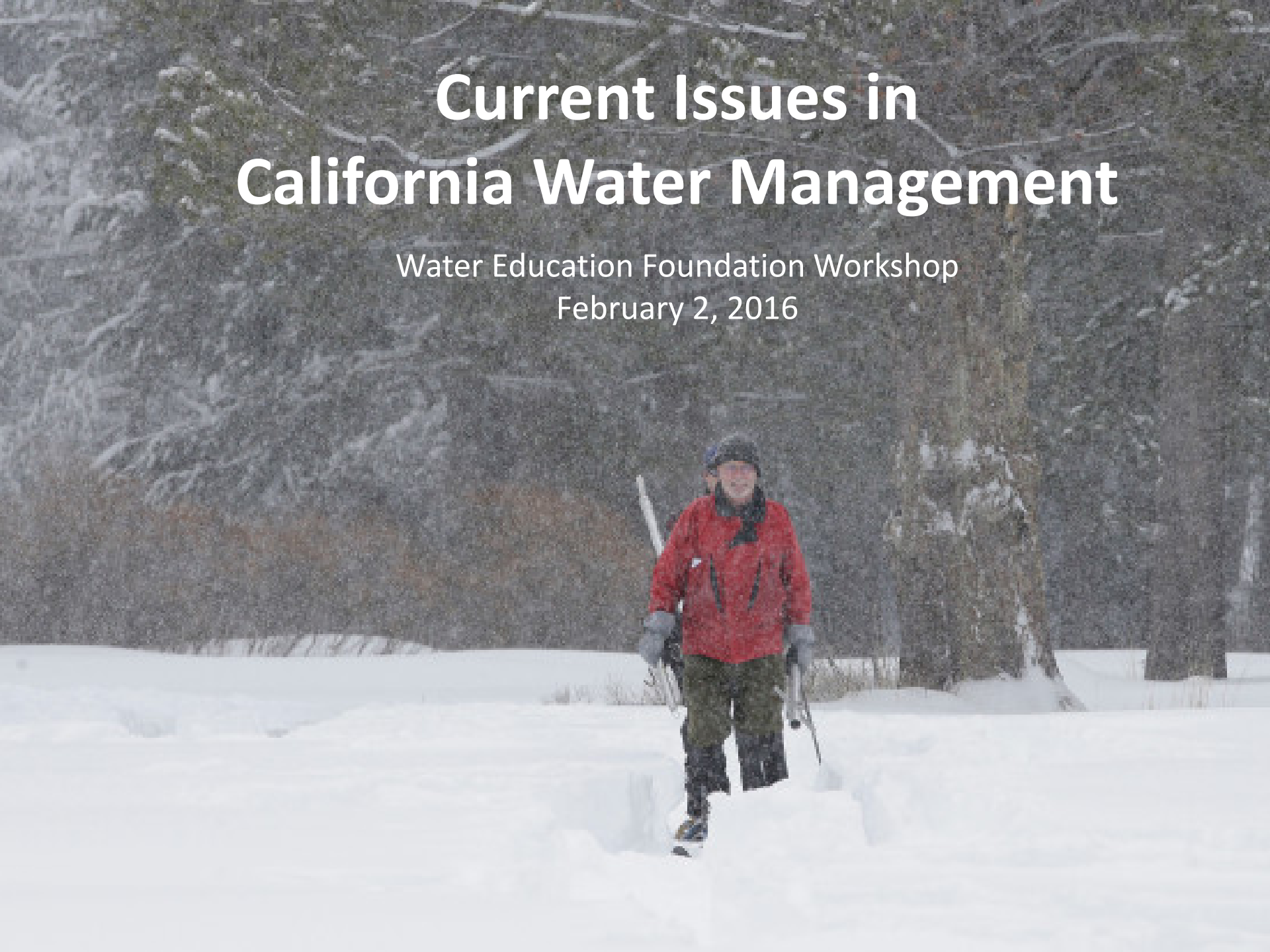
Current Issues in California Water Management

Water Education Foundation Workshop
February 2, 2016

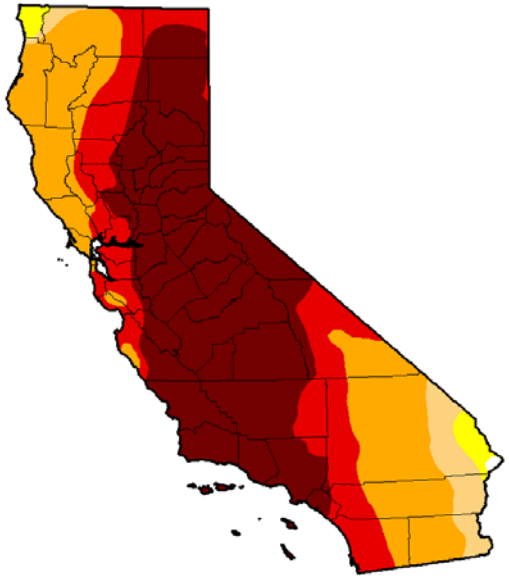


Update on California Water

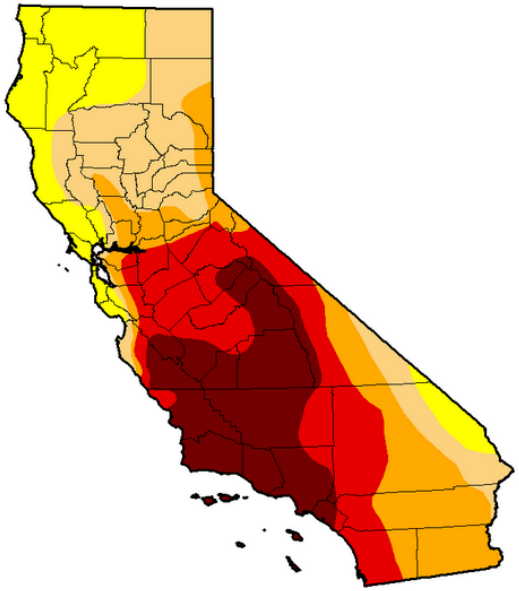
CFEE Conference October 13, 2016

California's Drought Continues

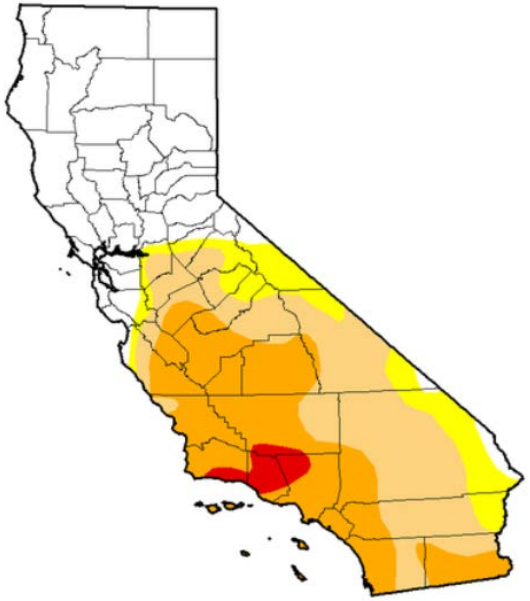
April 2015



October 2016



January 24, 2017



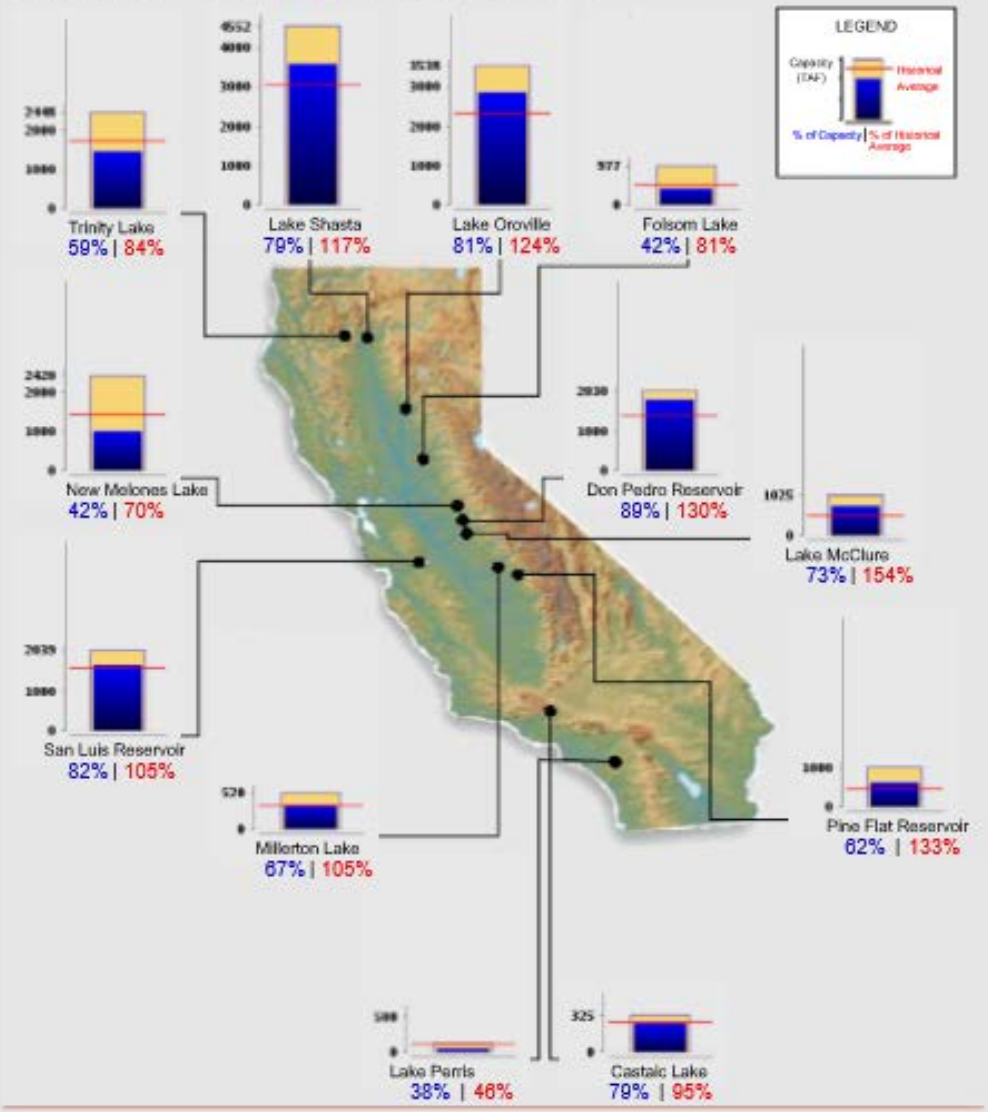
Drought Intensities

- None: No Drought
- D0: Abnormally Dry
- D1: Moderate Drought
- D2: Severe Drought
- D3: Extreme Drought
- D4: Exceptional Drought

Reservoir Conditions

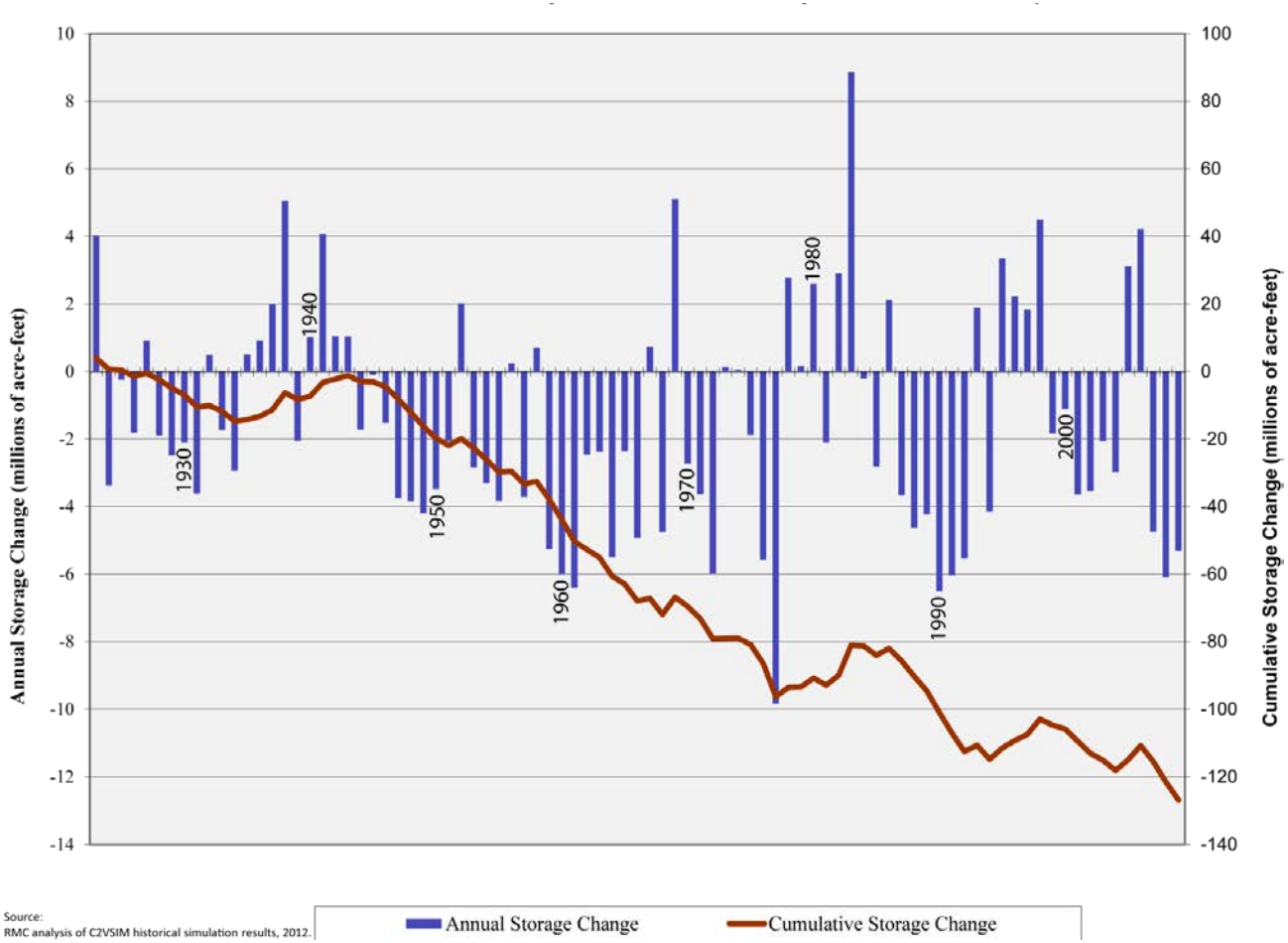
Ending At Midnight - January 29, 2017

CURRENT RESERVOIR CONDITIONS



Graph Updated 01/30/2017 07:45 AM

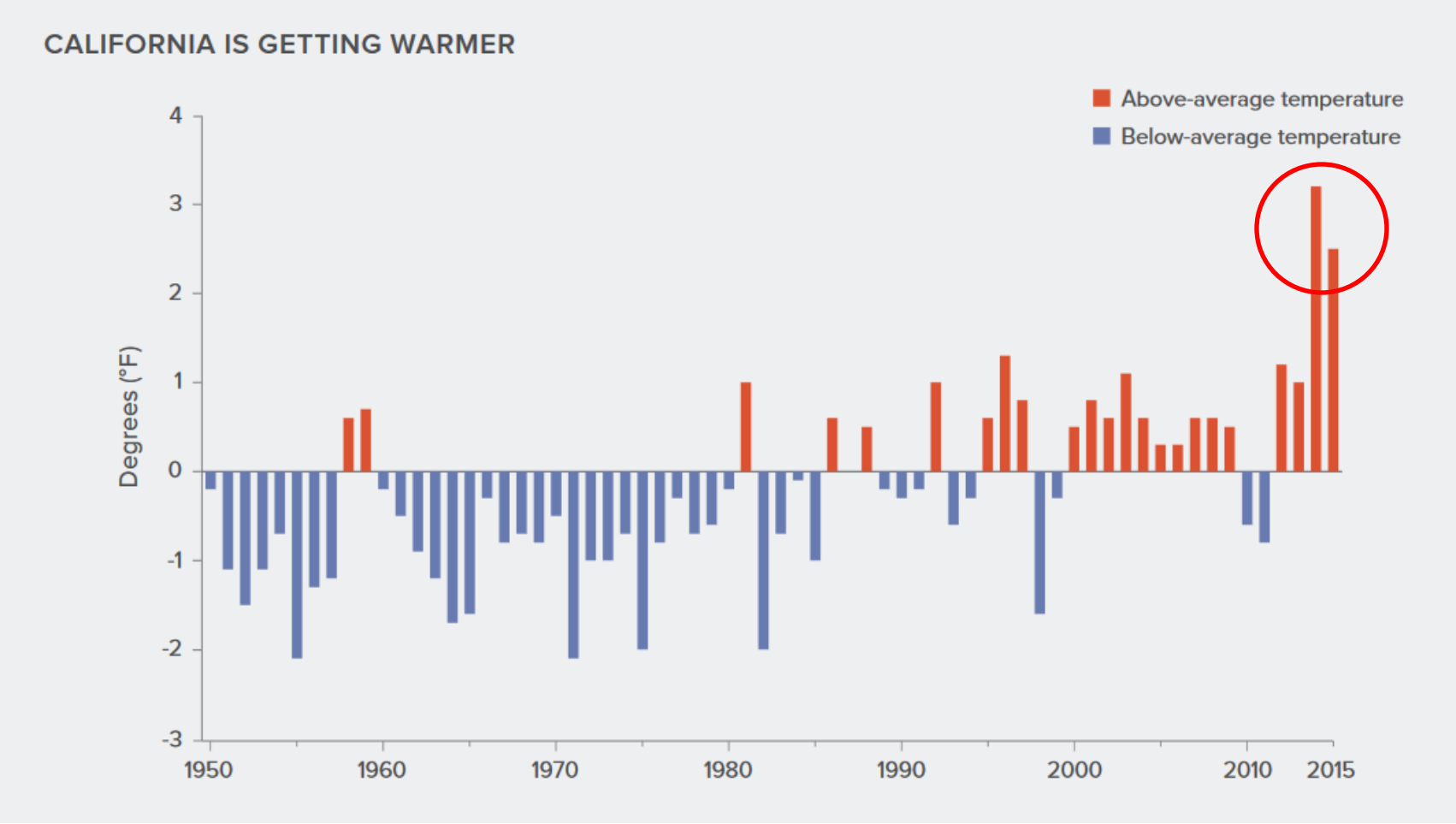
Groundwater is Depleted



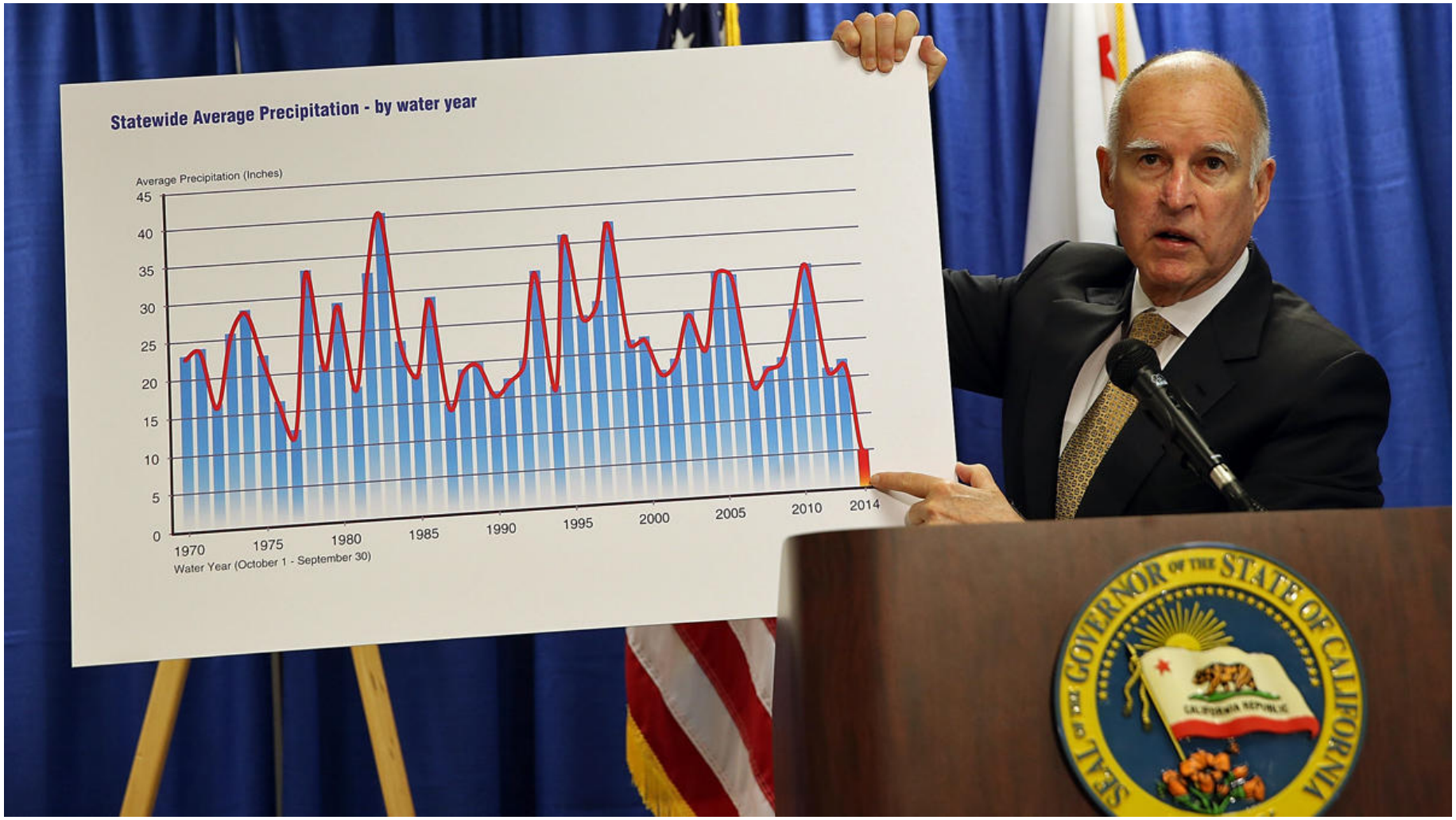
Source:
RMC analysis of C2VSIM historical simulation results, 2012.

70% of surface water reductions for agriculture have been made up for by increased groundwater pumping.

Climate Change drives more frequent and severe droughts



Droughts are not new in California



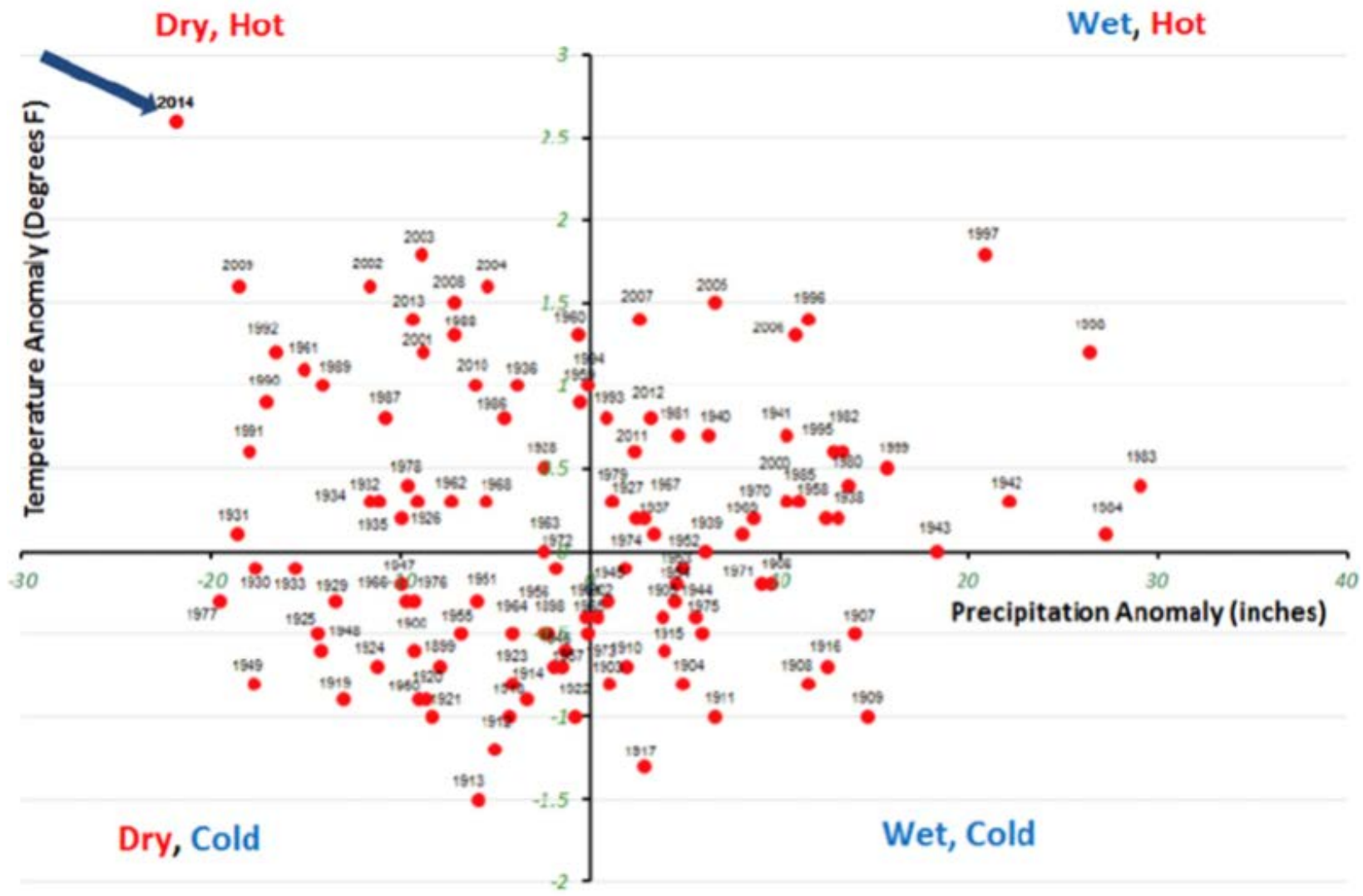
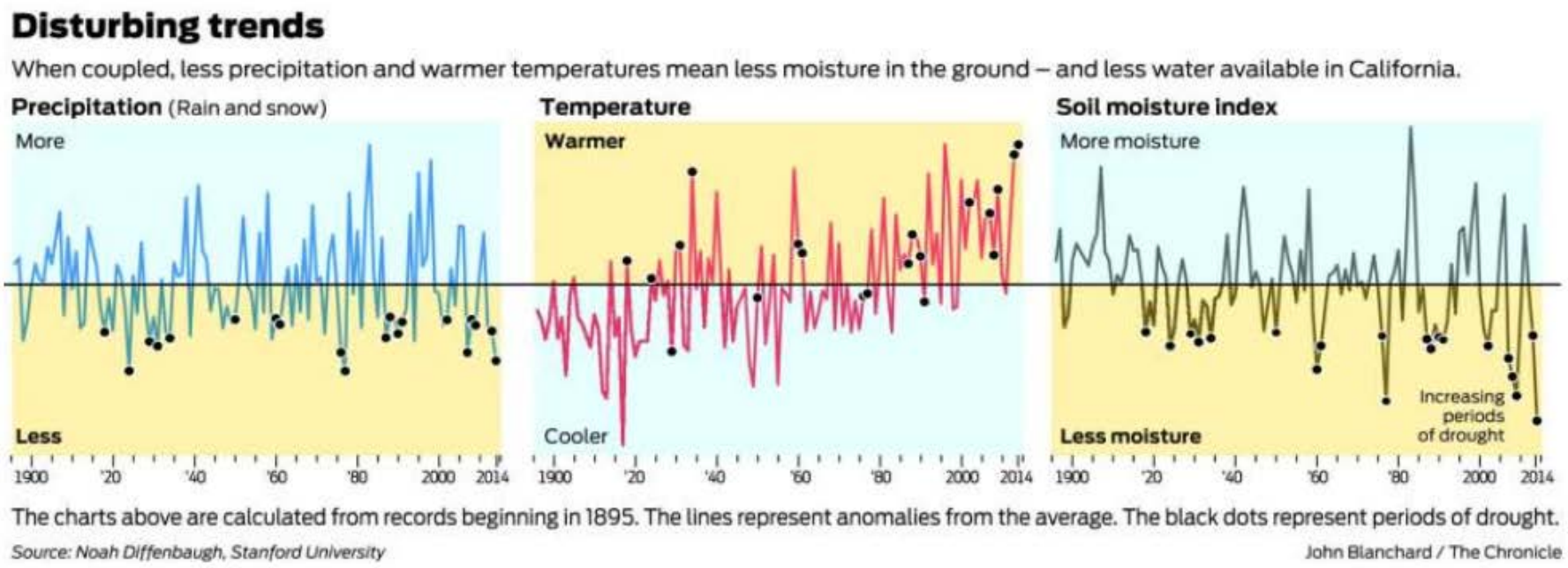


Fig. 1. California temperature (°F) and precipitation (inches) anomalies from January 1895 to November 2014,



Take-away on how climate change impacts California water:

- No demonstrated impact on the amount of winter rain and snow
- But… clearly makes winters
  - Less accumulated snowpack for water supply
  - Drier soils
  - More evaporation in reservoirs

Hot Topics for 2017

Sacramento- San Joaquin Delta

- 25 million Californians get their water from the Delta from <u>both</u> Northern and Southern California
- California agriculture relies on Delta water
- One of the most biodiverse aquatic regions in the Americas

Sacramento and San Joaquin Rivers and Tributaries all flow into the Delta

The Delta is Severely Broken

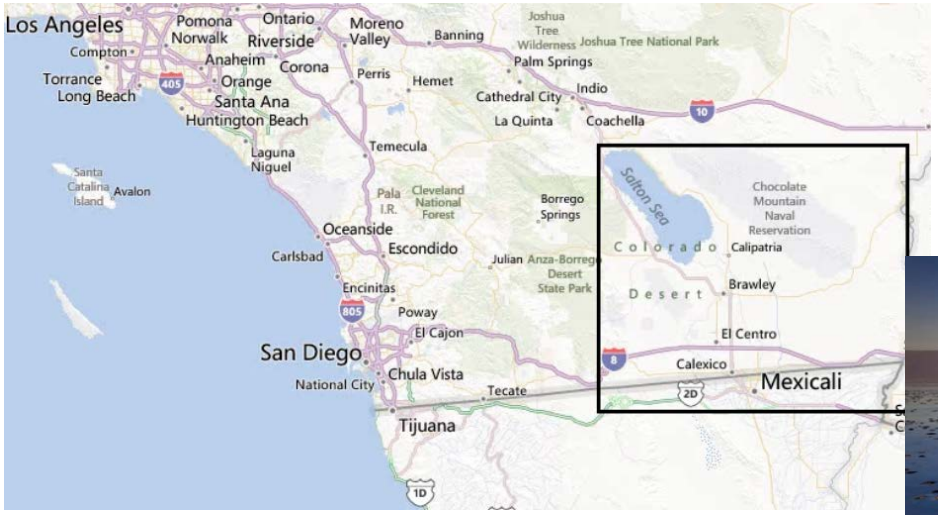
- **Outdated, brittle infrastructure creates risk.**
  - 50-year old levees threatened by earthquakes, floods and sea level rise.
  - Extreme event could wipe out freshwater supplies that run through Delta for a period of time.
- **Current system wastes water**
  - Cannot capture all water in major storm events for productive use.
- **Current system kills endangered species**
  - Extinction of native fish is possible if nothing is done.

Solving the Drinking Water Crisis

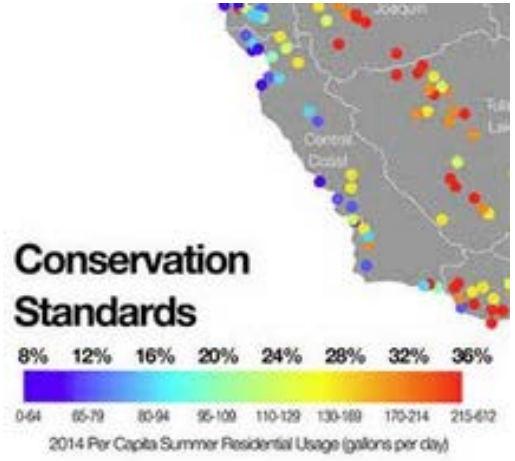
Setting New Flow Standards for Delta, San Joaquin & Sacramento systems

- Water Board must complete regulatory process under Clean Water Act
- Brown Administration working on voluntary agreements to meet standards

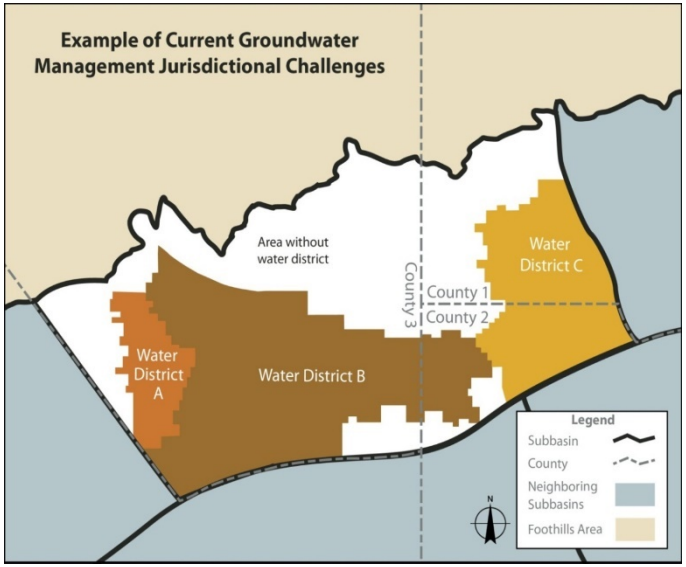
Restoring the Salton Sea



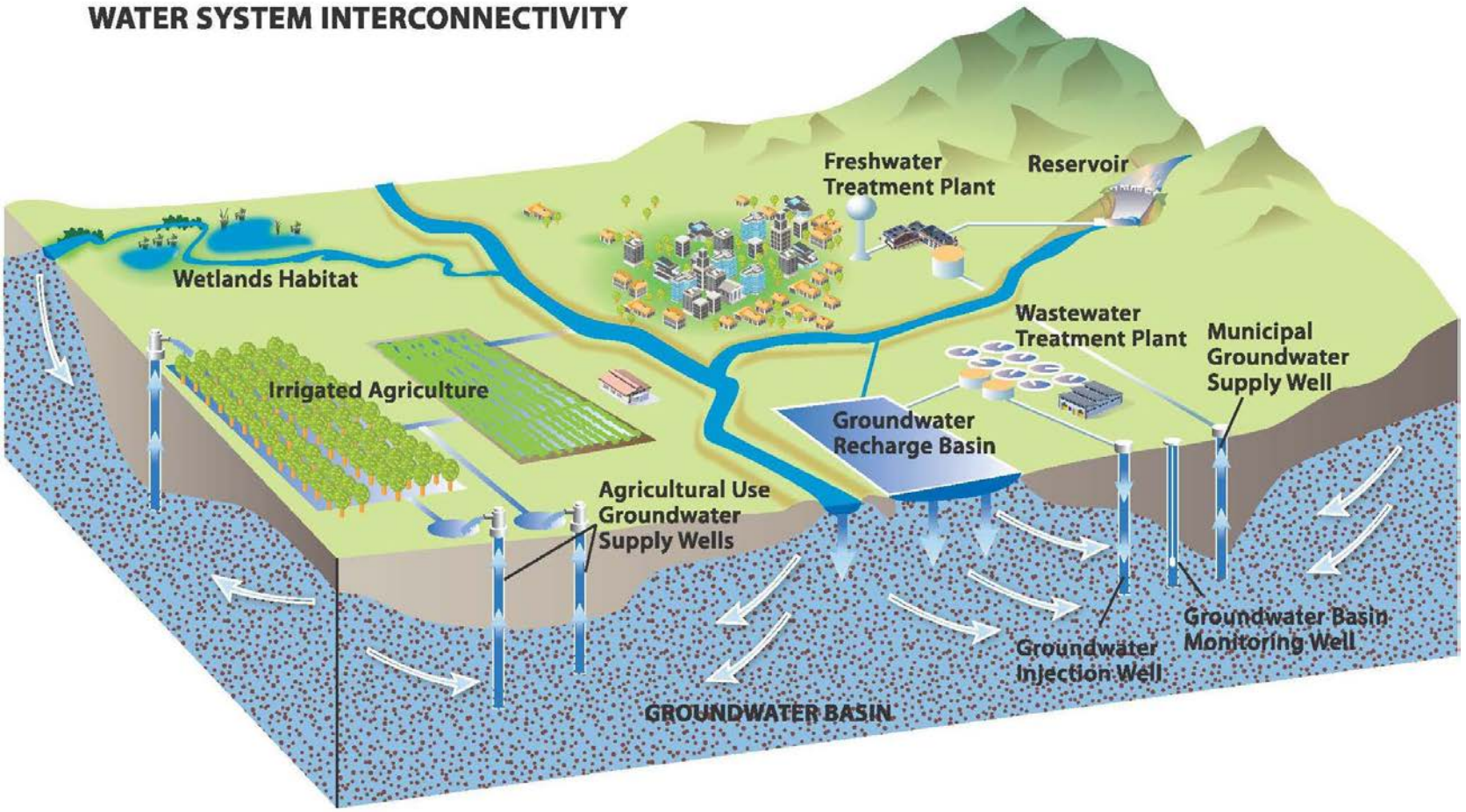
Updating Urban Water Conservation Standards



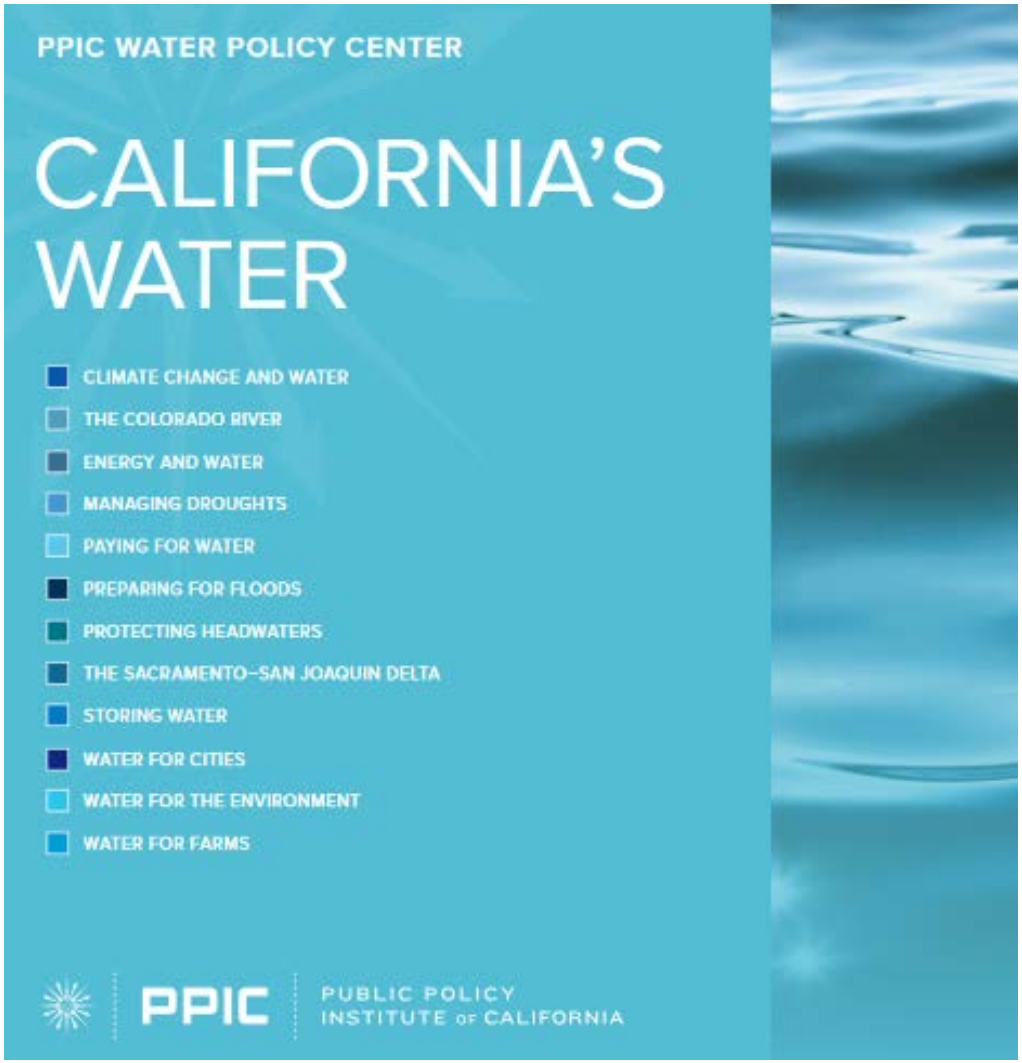
Implementing Sustainable Groundwater Management Act (SGMA)



Achieving
Integrated Water Management



More information at PPIC.org



Newsflash: The American West is Dry