Draft Water Resilience Portfolio

WATER RESILIENCE PORTFOLIO

Compare to the Executive Color No.100

**Color No.10

February 2020

www.waterresilience.ca.gov







Overview



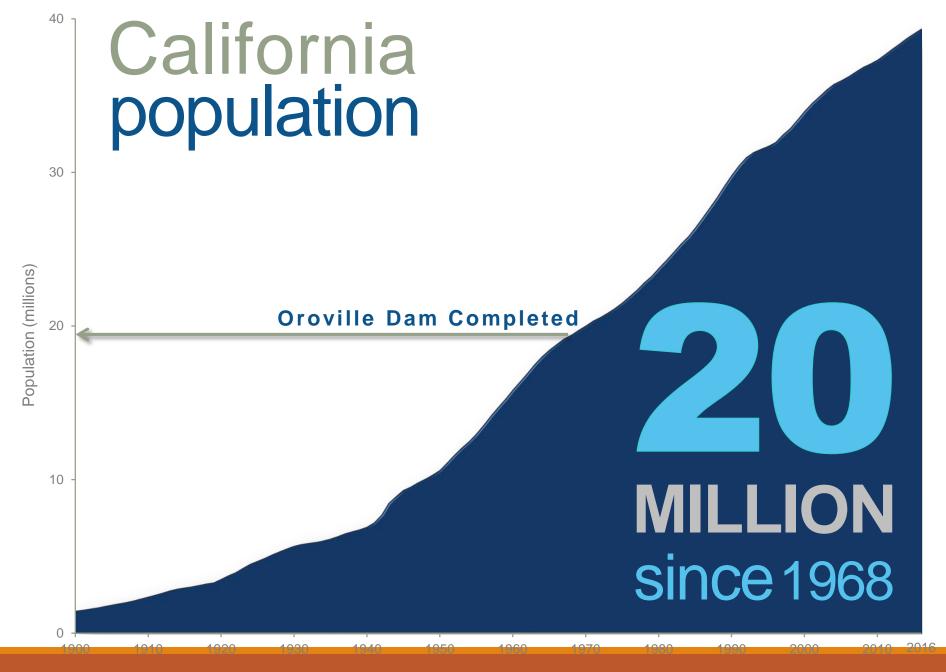
Water
Supply
Uncertainty



Executive
Order N-10-19
Water
Resilience
Portfolio



Input,
Recommendations,
Timeline



California Housing & Water Use



Population = 50 million by 2050 (+10 million)

4 million new housing units just to keep up



Current Water Use: About 2 houses per acre-foot 2 million ac-ft/year of new water for population growth

1920

Sacramento LAND USE

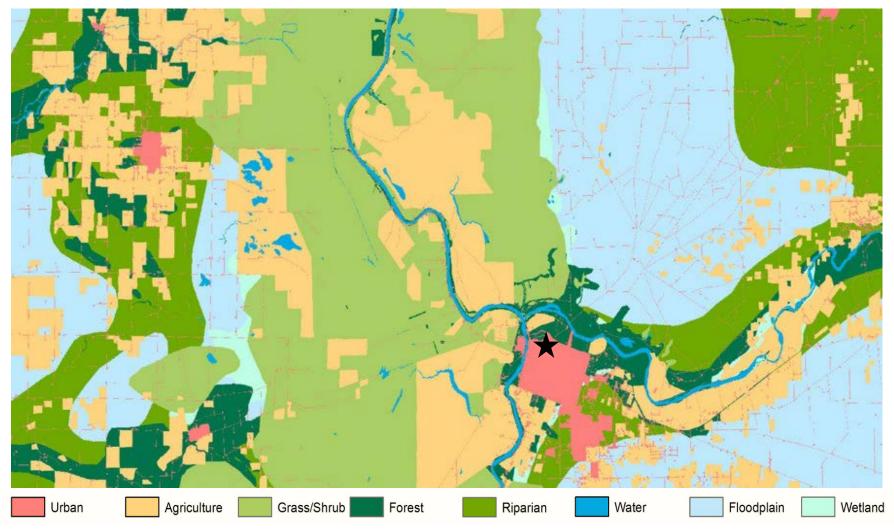
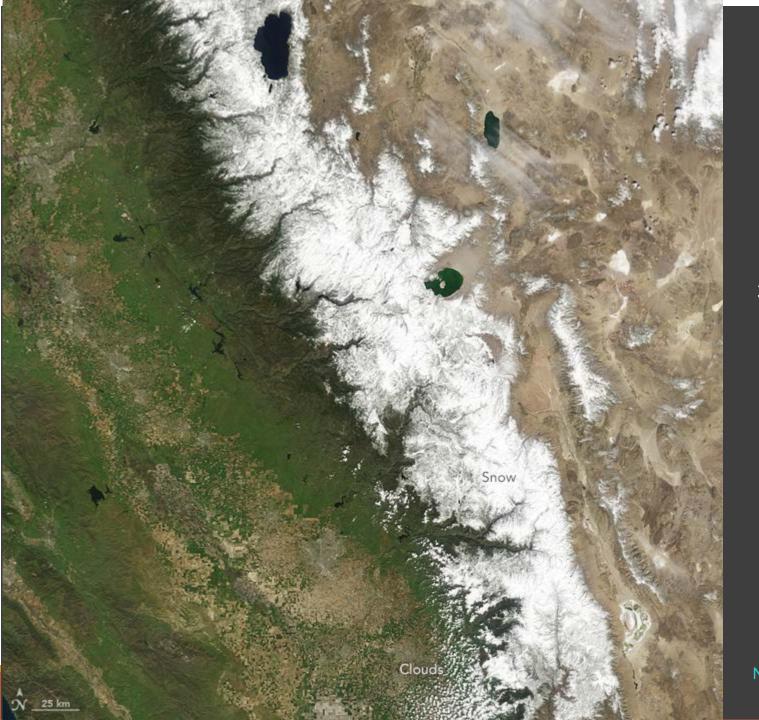




Image courtesy Dr. Van Butsic, UC Berkeley Cannabis Research Center



Sierra Nevada Snow Pack

Spring 2010Average year

Spring 2014 34% of average

Spring 2015 5% of average

Source: NASA Earth Observatory



PLANNING FOR 2050



50 million Californians (+10 Million)



Water
Supply
Certainty



5 degrees warmer on average from 2050-2100









WATER RESILIENCE PORTFOLIO

Executive Order signed April 29, 2019

 Directs California Natural Resources Agency (CNRA), California Environmental Protection Agency (CalEPA), and California Department of Food and Agriculture (CDFA) to

• "... prepare a water resilience portfolio that meets the needs of California's communities, economy, and environment."



Draft document, released January 3, 2020, is an integrated set of actions designed to help communities:

- Prepare for disruptions
- Withstand and recover from shocks
- ► Adapt and grow from these experiences

The Governor asked that the portfolio encourage:

- Projects that offer multiple benefits
- Use of natural infrastructure such as forests and floodplains
- Innovation and new technologies
- Regional approaches among water users
- Examination of successful models from outside California
- Integration of investments, policies, and programs across state government
- Partnerships with local, federal and tribal governments, water agencies and irrigation districts, and other stakeholders

The draft portfolio incudes 133 actions toward these goals:

- Maintain and diversify water supplies
- Protect and enhance natural systems
- Build connections
- Be prepared



Some actions highlight critical water management efforts already underway. For example:

- Implement the Sustainable Groundwater Management Act of 2014.
- Implement the "conservation as a way of life" laws of 2018.
- Implement the Safe and Affordable Drinking Water Act of 2019.
- Work to eradicate nutria.

Some actions aim for greater state government efficiency. For example:

- Coordinate grant and loan programs across state agencies to fund multi-benefit projects.
- Evaluate state water-related plans and consider modifying, consolidating, or discontinuing.
- Integrate state and federal surface and groundwater models.
- Develop expedited and cost-effective permitting mechanisms for restoration projects.

Some actions highlight the role of science and data in water management. For example:

- Develop methodologies to rapidly quantify the timing, quality, and volume of flows fish and wildlife need.
- Phase requirements for telemetered diversion data to diversions of 500 acre-feet or more per year (down from 10,000 acre-feet a year).
- Perform regional watershed-scale climate vulnerability and adaptation assessments.

Taken together, actions in the draft portfolio recognize that:

- Water management responsibilities are largely local.
- State agencies play important roles as policymaker, regulator, funder, collector and keeper of information, manager of interregional infrastructure.
- Progress underway should be sustained.
- State agencies should better integrate how they collect data, conduct modeling, distribute grants, and plan for flood and drought.

Next steps

- ► Gather written feedback by February 7
- ► Revise document accordingly
- ► Submit final version to Governor

Draft available at http://waterresilience.ca.gov/

Submit comments to input@waterresilience.ca.gov

QUESTIONS?