Water Resilience Portfolio

Mandated by the Governor’s April 29 Executive Order
Executive Order N-10-19

INHERENTLY, water is a human right, and it is essential to California’s strength and prosperity.

INHERENTLY, we face a range of waging water challenges, including inadequate drinking water access and, despite improved governance, severe drought, climate change, extreme weather events, severe drought, water contamination, and waste in the water system.

INHERENTLY, climate change is having a profound impact on water and availability, is decreasing snowpack, increasing the number of water-related hazards, increasing the risk of more intense and frequent drought and floods, and altering stream, lake, and ocean flows as well as water-related flooding.

INHERENTLY, California continues to grow, with our population projected to grow to 50 million over the next several decades and our economic value 2-3 times as large as the 2010-2011 economic value.

INHERENTLY, public perceptions of our communities and the health of our environment depend on us facing and meeting water-related challenges while protecting California’s health and water needs through the 21st century.

INHERENTLY, many state programs, policies, and investments are being implemented, such as the Sustainable Water Management Act (SB 845) and California’s new water efficiency standards, that saddle burden of facing these emerging challenges.

INHERENTLY, providing clean, accessible water supplies to communities, ecosystems, and dependents are central to maintaining the health of our communities.

INHERENTLY, achieving the great goals of a portfolio of collaborative strategies between government, advocacy groups, social communities, water agencies, legislators, elected officials, environmental conservators, academics, business decision makers, and other stakeholders.

NOW, THEREFORE, J. CURTIS NEDRESK, Governor of the State of California, in exercise of the power and authority vested in me by the Constitution and the statutes of the State of California, do hereby issue this Order to become effective immediately.

If it is necessary, this Order may be amended, modified, extended, or terminated.

This Order shall remain in effect until the termination date specified in the text or until the Governor orders its termination.

... prepare a water resilience portfolio that meets the needs of California’s communities, economy, and environment.
Planning for the year 2050

- Population expected to reach 50 million people – another 10 million people.
- Average temperatures up to 5° F warmer.

Source: Draft Assumptions and Estimates for California Water Plan Update 2018, April 2017, California Department of Water Resources; Figure 4, Figure 5
These agencies shall first inventory and assess ...

- Inventory and assess existing and projected water supply and demand, by region and statewide.
- Also consider water quality, climate effects, existing state water programs, and voluntary flow agreements on Sacramento and San Joaquin rivers and new single tunnel for Delta diversions.

From California Water Plan Update 2018
From California Water Plan Update 2013
This water resilience portfolio ... shall embody these ... principles:

- **Prioritize:**
  - Multi-benefit approaches
  - Natural infrastructure (upper watersheds, floodplains, aquifers)
  - Innovation and new technologies
  - Regional approaches
  - Integration across state government
  - Partnerships across governments
Drivers of Change

- Warmer climate = reduced Sierra snowpack, drier seasonal conditions, changes in runoff
- Implementation of groundwater laws = need for recharge supplies
- Increased population = need for greater efficiency
- Current actions insufficient for native fish and wildlife
Goal of Water Resilience Portfolio

- Regional resilience: The capacity of communities and ecosystems to withstand and respond to stresses and disturbances.
- What can the state do to foster water resilience?
- How can we measure and track it?
Some key concerns:

- What barriers keep people in a watershed from working together?
- What new gray and green infrastructure would help build regional resilience?
- What investments, data, and incentives would enhance groundwater recharge?
- How do we better provide for fish and wildlife under a range of conditions?
- What barriers hinder water transfers to ease scarcity in drought?
- How can we improve the administration of water rights?
- Are there better ways to consistently fund flood and stormwater projects?
We want to hear from you. Share your ideas.

- Email us at input@waterresilience.ca.gov
- More information at waterresilience.ca.gov