

Mastering Disaster in the Anthropocene: Reconciling DRR and Climate Frameworks

Managing Risks to Secure a Reliable Water Supply

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SFPUC Regional Water System



Risks to Our Regional Water System

Aging Infrastructure/Earthquakes, which can disrupt water delivered to us from far away

Droughts, which reduces the amount of water available to serve our customers

Climate change, which affects the amount of water we can get from snowfall and can impact our infrastructure

Population and employment growth, which increase the demand for water

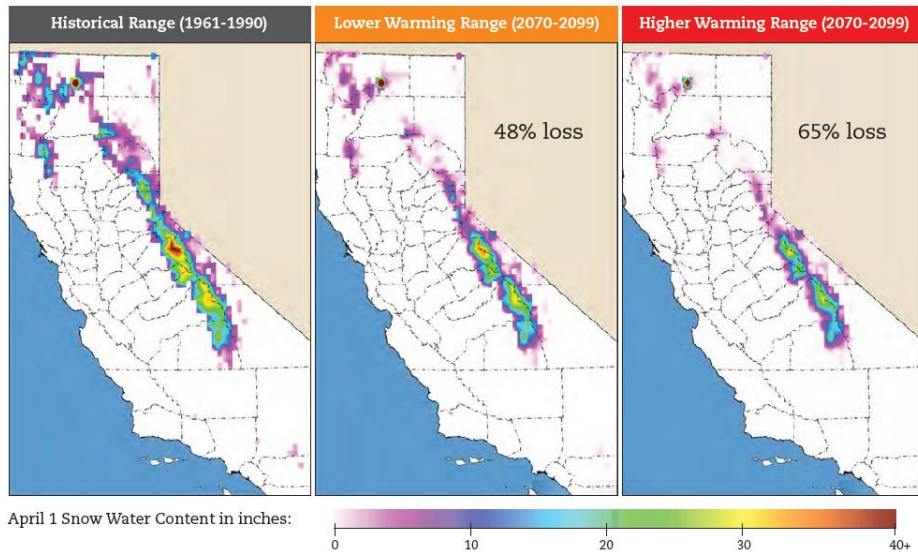
New regulations, which may require us to leave more water in rivers for habitat and use less for drinking

SFPUC Taking Several Steps to Secure a Reliable Future Water Supply

- Climate Change and Vulnerability Studies
- Upgrade Infrastructure
- Promote Demand Management & Develop Local Water Supplies
- Respond to and Plan for Droughts



Climate Change and Vulnerability Studies



(CA DWR, 2016)

- Climate Change Studies to assess impacts to our snowpack
- Vulnerability Study to assess impacts of climate in comparison to or in combination with other drivers of change over the next 50 years

Respond to Aging & Vulnerable Water Infrastructure

Water System Improvement Program

- 83 projects to repair, replace, and seismically upgrade infrastructure
- \$4.8 billion
- Over 90% Complete



One of the largest water infrastructure programs in the nation and the largest infrastructure program ever undertaken by the City of San Francisco.

HETCH HETCHY + LOCAL WATER

Better together.

Conservation

Groundwater

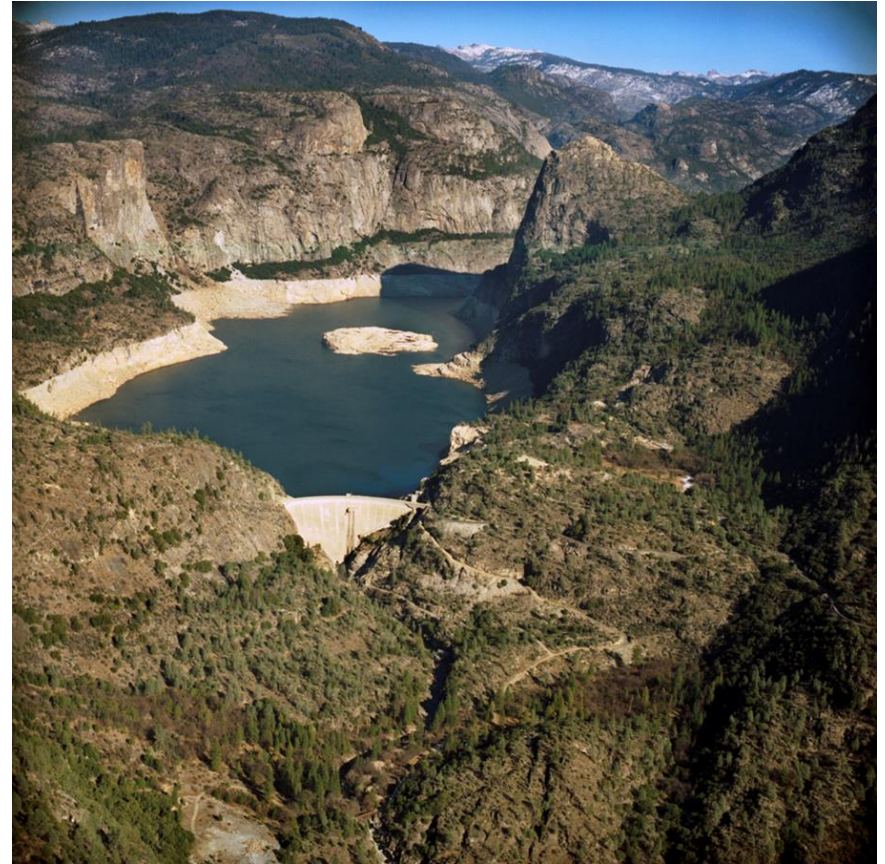
Recycled Water

Non-potable Water

Purified Water/Desalination

Manage System for Multi-year Droughts

- We know drought will happen again, but how bad will it be?
- We plan for an multi-year droughts
- Shortage allocation plans and drought emergency response plans



Looking Ahead

- Continue to make investments
- Diversify water supply portfolio
- Deploy innovative technologies
- Foster regional partnerships
- Maintain meaningful public engagement



OneWater Approach to Managing Resources

OneWaterSF

A Vision for San Francisco

October 2016

San Francisco
Water Power Sewer
Member of the San Francisco Public Utilities Commission

- “Water In, Water Out” paradigm is becoming obsolete
- SFPUC cultivated a shift to move away from operating within traditional water, wastewater and energy silos
- Collaborate to utilize technology and innovation to optimize finite resources, making our water and energy systems more resilient and sustainable

Thank You

