

### Califorina Water Boards

- Protect Water Quality
- Regulate Drinking Water
- Administer Water Rights
- Provide Financial Assistance



## **2022 Drought Impacts**



1450+ household water shortages

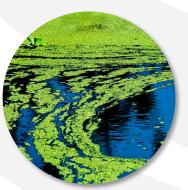
14,300

**Agricultural** 

jobs lost



64%
Wells at
historic lows



**70**HAB advisories



10,000+ Fish killed in SF Bay



\$1.3+ billion

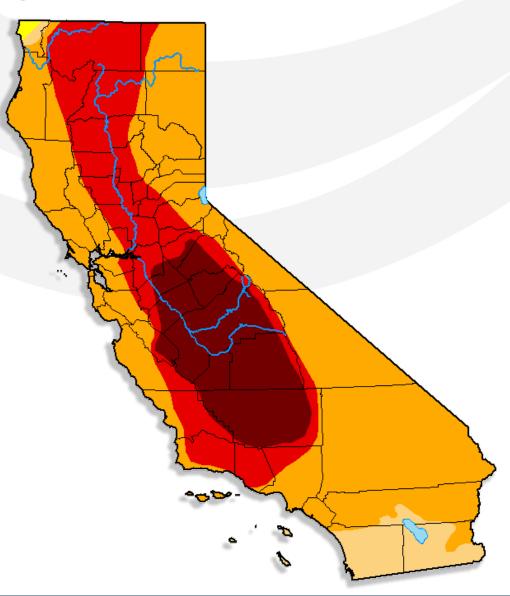
Loss to
agriculture



5%
State water project contracts met

## Water Boards Drought Actions

- Drinking Water Assistance
- Financial Assistance
- Water Conservation
- **©** Emergency Curtailments
- **Groundwater Recharge**





Safe & Affordable Funding for Equity & Resilience (SAFER) Drinking Water Program

Focus on small disadvantaged communities & lowincome households

- Interim & emergency water supplies
- Technical assistance & planning
- Some construction & operations & maintenance
- System consolidation

\$700 million for small disadvantaged community projects since 2019



# Drinking Water Success Story

Self-Help Enterprises helps 3,400 households in the San Juaquin Valley



Serves Kern, Kings, Tulare, Fresno, Madera, Merced, Mariposa, San Joaquin & Stanislaus Counties

- Regional Bottled Water
- Household Solutions
- Dry Well Tanks & Hauling
- Regional Well Replacement/Repair

\$115M awarded- \$83M remaining



#### \$3.3 billion to boost drought resilience and increase water supplies in FY 21/22)

#### Types of projects:

- Dinking water infrastructure
- Drinking water consolidation
- Emergency and interim drinking water supplies
- Technical assistance

Multiple sources depending on need:

Visit bit.ly/water\_grants\_loans





## Fastest, cheapest & easiest way to stretch water supplies

- Voluntary 15% conservation (2021)
- Wasteful use prohibitions & demand reduction (2022)
- Urban retail suppliers:
  - Water loss performance standards (2023)
    - Monitor and reduce leaks
    - Save 88,000 AFY
  - Water use objectives (2024)
    - Choose your own adventure



# **Emergency Curtailments**

Implement priority system while protecting fish, wildlife, & human health & safety.

Restricts in order of priority:

"First in Time, First in Right!"

• 10,000+ rights curtailed:

First for many old water rights

Tied to emergency order and regulations:

Cannot do this in non-drought years

Lots of enforcement





## CA goal to expand groundwater recharge by at least 500,000 AFY by 2030

- Types of recharge: natural, incidental, managed
- Managed typically requires a permit
   7 permits approved & 190,000 AF authorized
- 340+ managed projects proposed
   Unclear how many rely on the same water
- Process takes time
   Need to start early



## **Data Challenges**

Example: Data Quality Issues in 2019 Sacramento River Self-Reported Diversions

Nearly 4,000 reporters (>5,000 AFY)

Reported: 29,688,143 AF

Corrected: 4,063,238 AF

Difference: 25,604,905 AF

86% reduction!

## Collaboration & Engagement

Advisory Groups

Workshops & Listening Sessions

Interagency
Workgroups
&
Taskforces

Local Knowledge & Solutions

- SAFER
- Recycled Water
- Cooling Water Intake
- UPWARD

- Water Rights Drought Effort Review
- Drinking Water Affordability
- Emergency Curtailments
- Water Use Efficiency
- Racial Equity

- Emergency Response (drought, fire, other)
- Water Quality Monitoring Council
- Recycled & Storm water
- Project-specific groups

- Russian River Voluntary Water Sharing Program
- Scott/Shasta Local Cooperative Agreements
- Many project-specific activities

## California's Water Cycle

