

CALIFORNIA DEPARTMENT OF WATER RESOURCES

# Water Management and Drought Grant Programs

Water Commission Briefing, July 2024



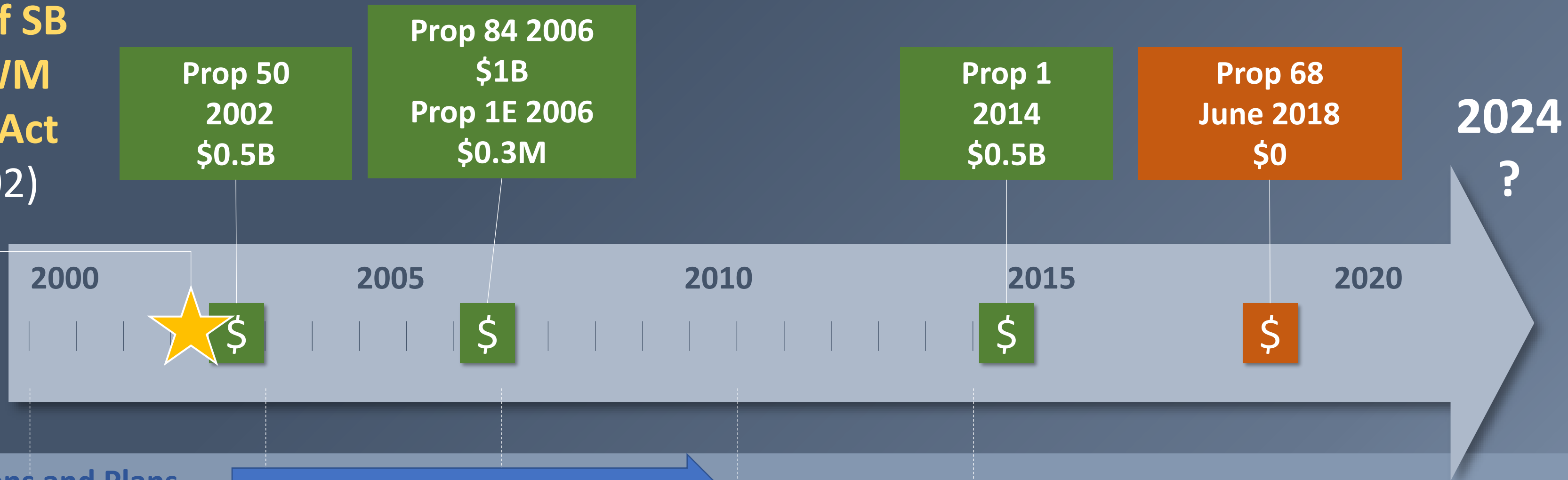
# Topics

- Integrated Regional Water Management (IRWM)
- Drought Relief
- Sustainable Groundwater Management
- Directed Funding and Watershed Resilience
- Lessons Learned



# Two Decades of Investments in Integrated Regional Water Management (IRWM)

**Passage of SB  
1672 IRWM  
Planning Act  
(Feb 2002)**

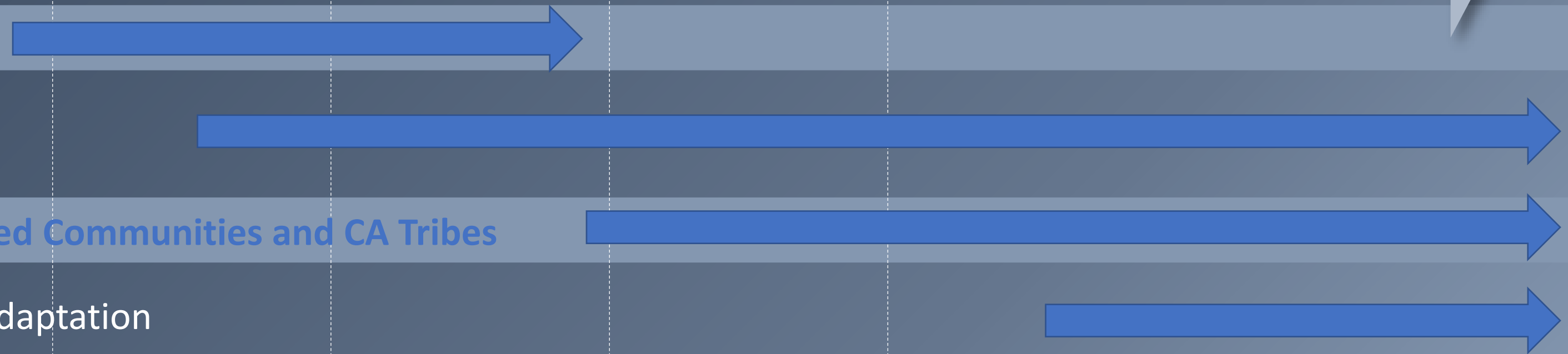


48 IRWM Regions and Plans

1500 Multi-Benefit Projects

Equitable Inclusion: Underserved Communities and CA Tribes

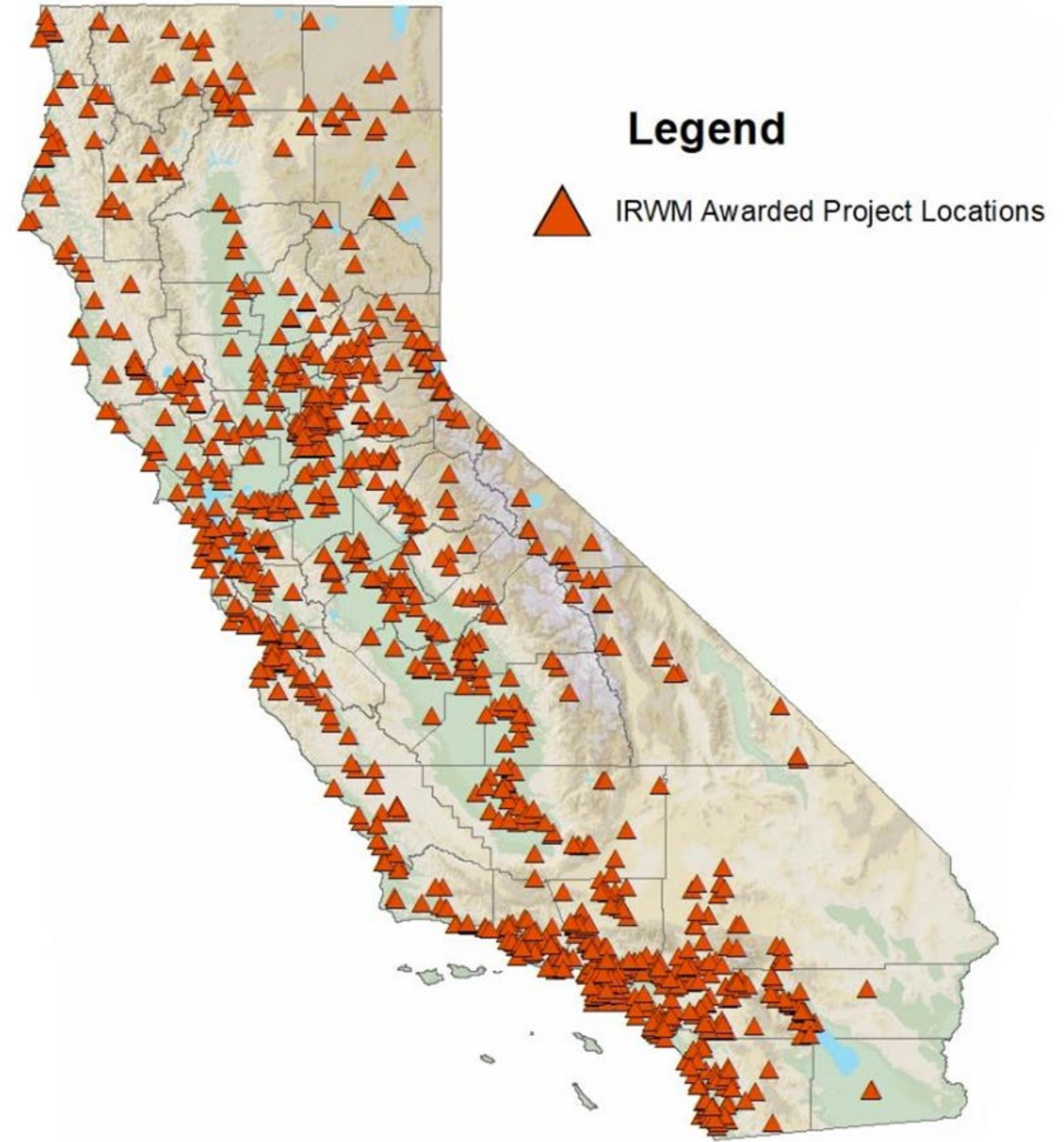
IRWM Plan Updates: Climate Adaptation



# Integrated Regional Water Management Awards 2002-2023

*(General Obligation Bonds)*

Grant Solicitation	# Grants	Funds Awarded (\$)
Prop 50 (2002-9)	71	207M
Prop 1E (2006-11)	31	275M
Prop 84 (2006-15)	200	882M
Prop 1 (2014-23)	108	472M
<b>Total</b>	<b>410</b>	<b>\$1.84 B</b>



# Integrated Regional Water Management Awards

## Projected Benefits

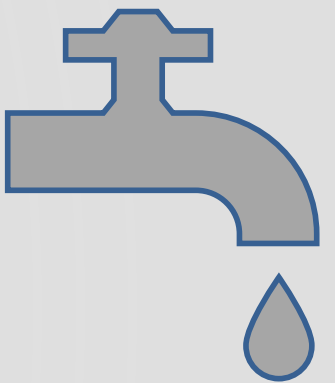
**1.3M** ac.ft./yr  
Saved  
Water



**921,000** ac.ft./yr  
Groundwater  
Supply



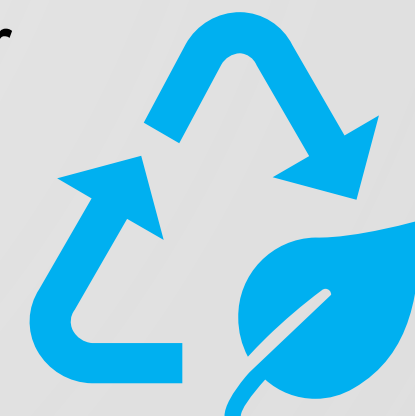
**706,000** ac.ft./yr  
Water  
Reliability



**638,000** ac.ft./yr  
Groundwater  
Recharge



**333,000** ac.ft./yr  
Recycled  
Water



*\*Projected benefits are based on signed agreements; actual benefits may change upon project completion*

# IRWM Implementation Grant Program

## Bootjack Fire Station Water Storage Tank Project



- \$708k Prop 1 Grant
- Completed in 2022
- Serves the underserved community of Bootjack in Mariposa County
- Public Benefits:
  - Water storage to fight fires
  - 200,000 gallon capacity
  - **Tank saved homes from Oak Fire in 2022**



# Drought Relief Grant Awards

*(General Funds, Budget Acts of 2021 & 2022)*

Grant Program	# Grants	Funds Awarded (\$ Millions)
Urban/Multibenefit (2021-22)	127	\$314.3
Urban Community (2022-23)	56	\$330.3
Small Community (2021-23)	141	\$288
LandFlex (2022-23)	8	\$23.8
<b>Total</b>	<b>332</b>	<b>\$956.4</b>

\*Contracts



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# Urban Drought Relief Awards Projected Benefits

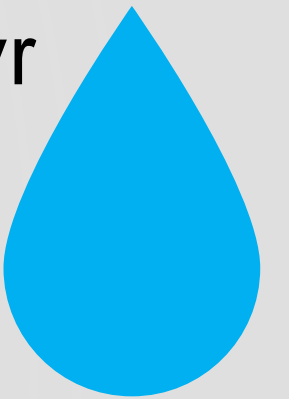
**87,404** ac.ft./yr  
Groundwater  
Recharge



**26,543** ac.ft./yr  
Recycled  
Water



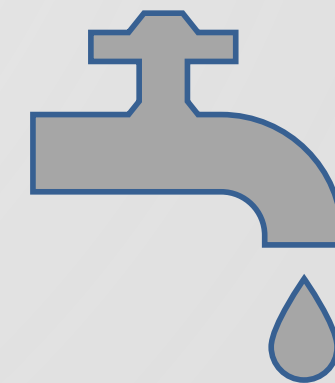
**20,001** ac.ft./yr  
Saved  
Water



**18,574** ac.ft./yr  
Groundwater  
Supply



**17,581** ac.ft./yr  
Water  
Reliability



*\*Projected benefits are based on signed agreements; actual benefits may change upon project completion*



# Urban Community Drought Relief City of Fresno Leaky Acres Recharge Improvements



- \$4.5 M Grant
- Work to be completed by December 2026
- Benefits the underserved community of Fresno
- Public Benefits:
  - Groundwater Recharge
  - Drought Resilience



# Small Community Drought Relief Awards

## Project Types

Multipurpose  
Projects  
44% of funding



Source  
Reliability and  
Improvement  
19% of funding



Consolidation  
13% of funding



Pipe  
Replacement  
11% of funding



Water Tank  
Installation  
8% of funding



Water  
Hauling  
4% of funding



# Small Community Drought Relief Orland Emergency Groundwater Resource Project



- \$16,713,400 Grant
- Benefits the underserved community of Orland and surrounding areas
- Public Benefits: Connection of 185 homes that rely on domestic wells to the City of Orland public water system



# Small Community Drought Relief Water Hauling

- 2023 - Hauled water to 739 households in 15 counties
- 2024 - Continuing to haul water to 216 households in 3 counties:
  - Butte
  - Glenn
  - Tehama

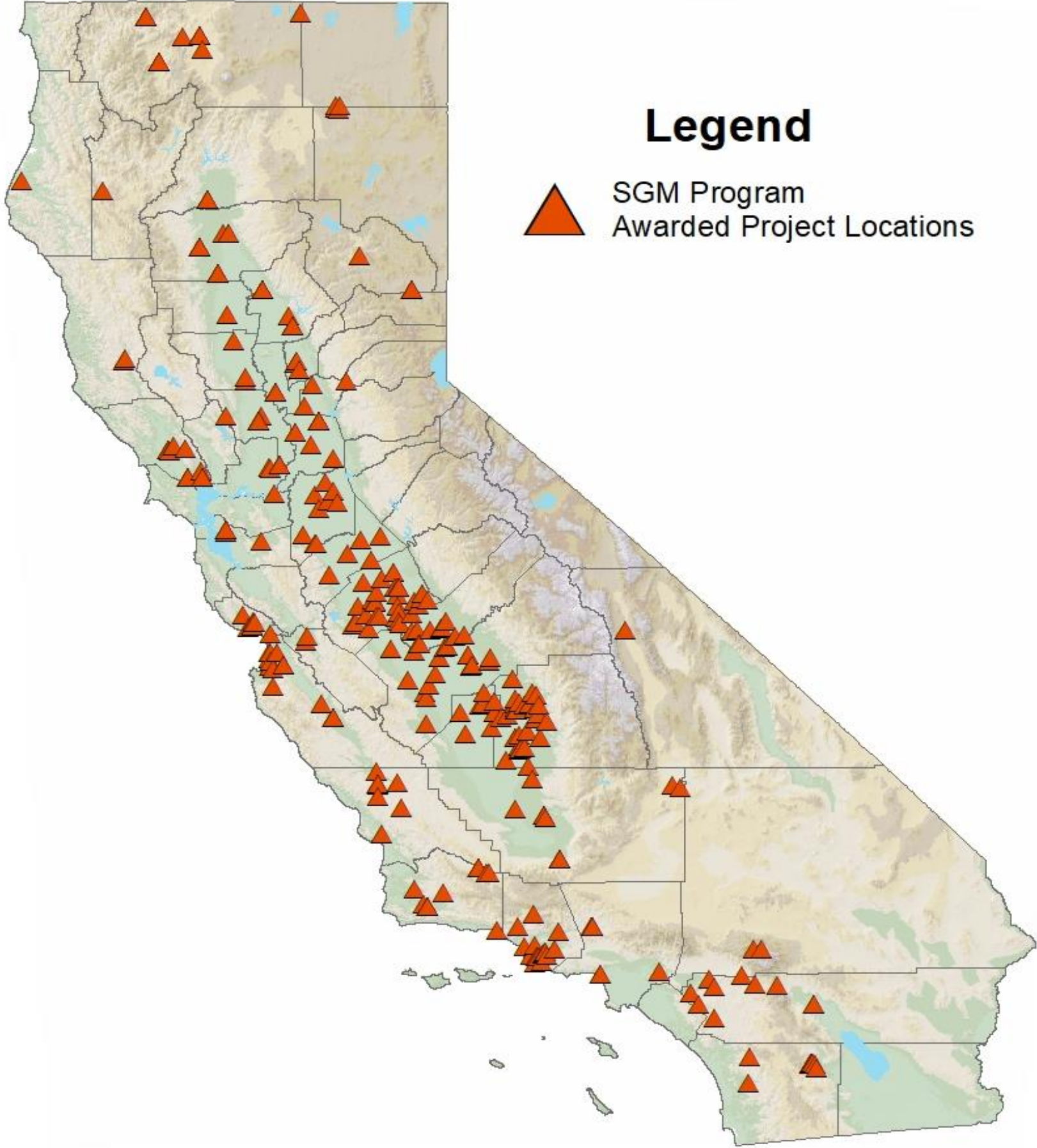


# Sustainable Groundwater Management Grant

# Program Awards

*(General Obligation Bonds and General Funds)*

Grant Solicitation	# Grants	Funds Awarded (\$Millions)
Planning Rounds 1-3 (2015-2019)	152	\$141.2
Prop 68 Implementation (2020)	6	\$26.0
SGMA Implementation Round 1-2 (2021-2022)	53	\$337.4
<b>Total</b>	<b>211</b>	<b>\$504.6</b>



# Sustainable Groundwater Management Livermore Valley Groundwater Basin Water Supply Reliability Improvement Project



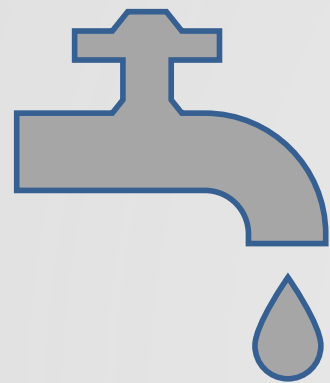
- \$16M Grant
- Completed in early 2024
- Benefits 3 underrepresented communities
- Treats 6.6 million gallons of contaminated groundwater a day (incl. PFAS removal) for communities in Pleasanton, Dublin & Livermore



# Sustainable Groundwater Management Grant Program

## Projected Benefits

**239,283** ac.ft./yr  
Water Supply  
and Reliability



**84,575** ac.ft./yr  
Groundwater  
Recharge



**58,145** ac.ft./yr  
Recycled  
Water and In-  
Lieu



**48,250** ac.ft./yr  
Managed  
Aquifer  
Recharge



**11,349** ac.ft./yr  
Water  
Conveyance



**875** ac.ft./yr  
Demand  
Reduction



*\*Projected benefits are based on signed agreements; actual benefits may change upon project completion*

## Sustainable Groundwater Management

# Underrepresented Community Technical Assistance

**Program Mission:** determine the needs, risks, and vulnerabilities within underrepresented areas in medium and high priority groundwater (and critically overdrafted) basins subject to SGMA regulations

**Communicate  
with and engage  
communities**

**Provide Technical  
Assistance  
services**

Report findings  
back to **GSAs** to  
**incorporate into 5-  
year GSP updates**





# Directed Funding & Watershed Resilience Pilot Grant Awards (General Funds)

Budget Act	# Grants	Funds Awarded (\$ Millions)
2018-2020	4	\$18.0
2021	7	\$57.3
2022	15	\$76.0
2023	21	\$25.5
Watershed Resilience (2024)	5	\$10.0
<b>Total</b>	<b>52</b>	<b>\$189</b>



# Watershed Resilience Pilot Project

## American River Watershed

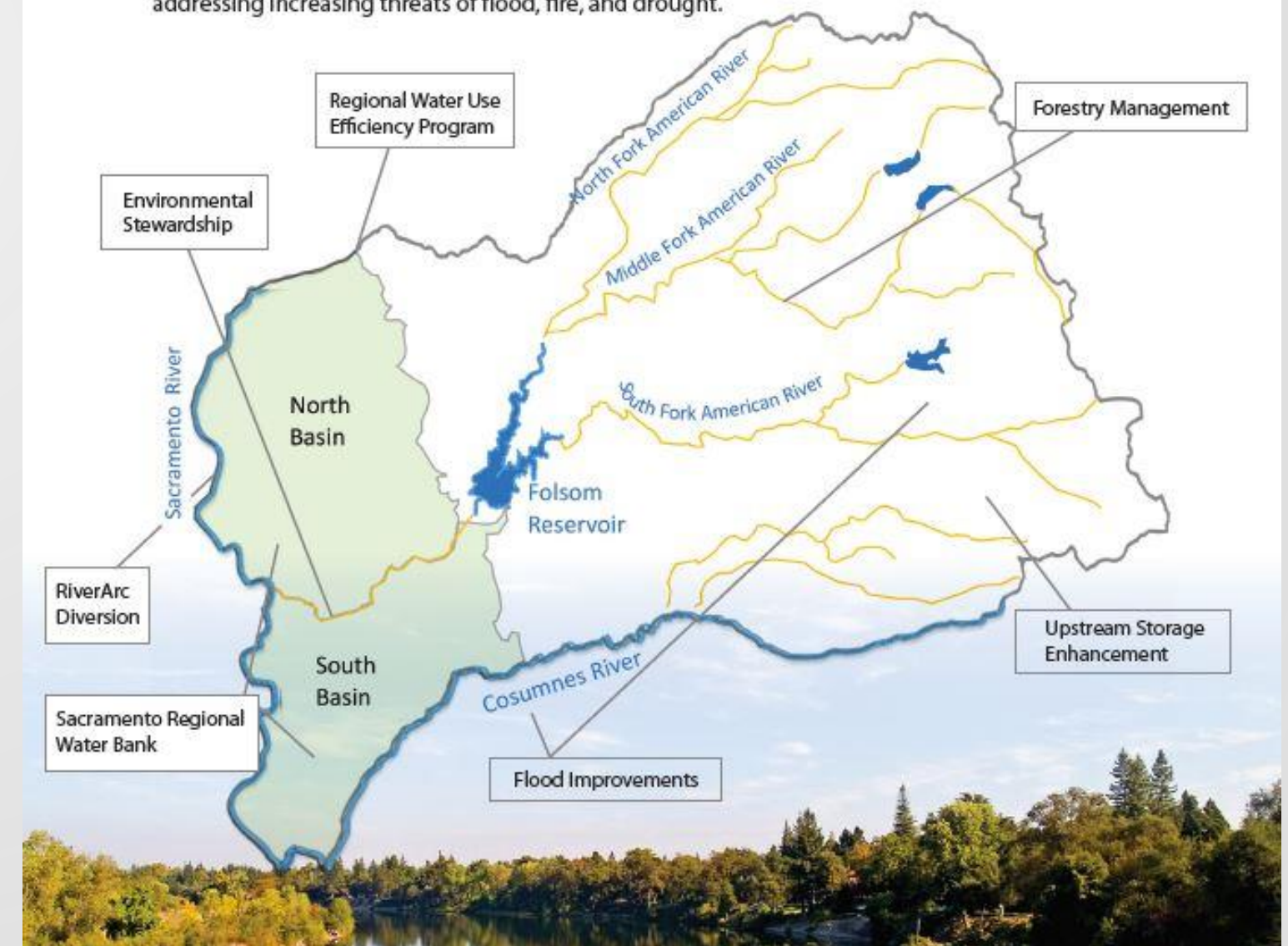
- \$2M Grant
- Builds on *WaterFuture* “Supershed Approach”
- Expected Outcomes:
  - Emphasis on Fire & Forest Management
  - Improved Tribal involvement
  - Advancement of large-scale regional solutions



### SACRAMENTO REGION WATER RESILIENCE PORTFOLIO

#### A Supershed Approach

Climate change is projected to have far-reaching implications on how California and the Sacramento region manage water supplies for both people and the environment. To address these challenges, local water managers have identified a comprehensive Water Resilience Portfolio encompassing our entire supershed—from the mountain tops of the American River watershed to the groundwater basin below the valley floor—that includes a suite of projects all focused on addressing increasing threats of flood, fire, and drought.



# Lessons Learned

- Communities need funding for **full range of services** (planning, education, outreach, facilitation, technical assistance, operation & maintenance); not just money for implementation projects
- Streamlined/simplified grant application processes help applicants and also allow DWR to expedite award/delivery of funds
- Greater alignment of grant programs within and between State agencies is needed



# Lessons Learned (*cont'd*)

- Grantees with lack of technical, managerial, financial capacity require a lot of state assistance to apply for grants and to administer/manage the grant agreements
- Grantees need training/guidance: writing grant applications, hiring consultants, etc.
- State agency staff & grantees require training/guidance for working effectively with Tribal governments
- Dedicated funding (e.g., set aside) is needed for engagement/inclusion of CA Tribes



# Contacts

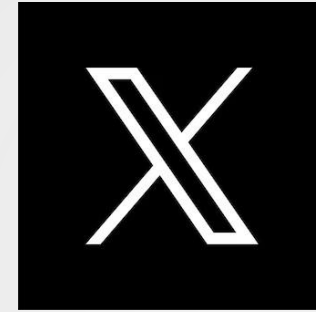
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# Thank you! Questions?



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**It takes a village!**