

2025 Workgroup: Water Infrastructure and Planning

Drought Resilience Interagency & Partners (DRIP) Collaborative

Thursday, April 3, 2025 2-3:30PM PT Remote Participation (via Zoom)

Facilitated by Workgroup Point of Contact: Anthony Navasero (Anthony.Navasero@water.ca.gov) California Department of Water Resources - Drought Coordinator Co-led by John Andrew, DWR and Emily Rooney, Ag Council of California

Meeting Information

- 1. This meeting is being recorded.
- 2. This meeting must adhere to the Bagley Keene Open Meeting Act rules. The workgroup quorum is required (5 out of the 9 on the workgroup). If we don't meet quorum, we will offer this time and this space for an informal discussion about Water Infrastructure and Planning.
- 3. DRIP Collaborative workgroup members must keep their <u>cameras on</u> during the meeting. You must notify the group if you turn off your camera and state why.
- 4. Members of the public and other DRIP Collaborative members are welcome to listen. A public comment session is included later in the meeting.
- 5. Please practice virtual meeting courtesy and mute when not speaking.

California DRIP Collaborative

Meeting Purpose and Agenda

Objective: Discuss the scope of the Water Infrastructure and Planning focus area and define a problem statement to be presented at the Spring 2025 DRIP Collaborative meeting..

Meeting Agenda

- 2:00pm Welcome, Roll Call, and Vision Setting
- 2:10pm Process Review
- 2:15pm Scope and Problem Statement
- 3:10pm Workgroup Next Steps
- 3:25pm Public Comment
- 3:30pm Adjourn



WORKGROUP PARTICIPANTS

(Quorum= 5 DRIP members)

- 1. Emily Rooney, Agricultural Council of California
- 2. Jason Colombini, Jay Colombini Ranch, Inc.
- 3. Tim Worley, California Association of Mutual Water Companies
- 4. Kyle Jones, Community Water Center
- 5. Alvar Escriva-Bou, University of California Davis
- 6. Laura Ramos, California Water Institute at Fresno State
- 7. Suzanne Pecci, Public Member
- 8. Katie Ruby, California Urban Water Agencies
- 9. Carolina Hernandez, Los Angeles County Public Works



VISION SETTING

The 2022 California Water Supply Strategy lists actions to improve water supply infrastructure and sets achievement goals for 2030 and 2040. The strategy focuses on four key areas:

- Development of New Water Supplies
- Expansion of Water Storage Capacity Above and Below Ground
- Reducing Demand
- Improving Forecasting, Data, and Management, including Water Rights Modernization

→ What water supply infrastructure action, either identified or not in the Strategy, would be most successful in the next 5 to 15 years in advancing towards drought resilience?

<u>Workgroup Members</u>: Please share your thoughts in the chat.



PROCESS OVERVIEW (REVIEW) 5 MINUTES



Focus Areas, Problem Statements, and Recommendations

Focus Area	Problem Statement	Recommendation
Focus Areas are ideas, opportunities,	A <u>Problem Statement</u> is a concise	A DRIP <u>Recommendation</u> is a thoughtful,
and aspirations that DRIP Members	description of the issue or challenge	formal suggestion that addresses the
have identified as important to improved	faced by a Focus Area. Developed by	issue or challenge described in a
California drought resiliency. These were	DRIP Members, Problem Statements	Problem Statement, providing solutions
captured on the Reference List and are	seek to capture the essential problems	that are specific and actionable related
sequenced and prioritized based on	within each Focus Area, including	to the preparation of, responding to, and
feedback during in-person and virtual	identification of key sub-topics within	recovering from periods of extreme
meetings.	each focus area.	water shortages and drought.



Recommendation Process



California

Collaborative

Mar - Apr Virtual Meetings: Refine 2025 Focus Area problem statement

Meeting #1 (May): Ideate on potential 2025 recommendations

May - Jun Virtual Meetings: Develop recommendations

Meeting #2 (July): Working session to refine recommendations. Initial votes

Aug - Sep Virtual Meetings: Complete recommendations templates; Prepare for Oct vote

Meeting #3 (Oct): Final vote on recs that may be ready. Decide on which recs may need until April 2026

2025 Proposed DRIP Collaborative Timeline



*Note: The timeline for each focus area/workgroup will vary and may extend beyond the proposed 2025 timeline.





SCOPE OF WORKGROUP 40-55 MINUTES



EXAMPLES OF CURRENT

WATER INFRASTRUCTURE AND PLANNING

Presentations

- SWP Long-term Drought Contingency Plan, Andrew Schwarz SWP Climate Action Manager
 - Guide operational decision making and develop SWP water supply allocations
- San Joaquin Flood-MAR Watershed Studies, Jim Wieking Division of Planning
 - Integrate water management strategies (e.g., use of high flows for managed aquifer recharge, flood control, and environmental benefits)



CALIFORNIA DEPARTMENT OF WATER RESOURCES

SWP Long-Term Drought Plan

Released March 2024



Summary

- First comprehensive public facing SWP Long-Term Drought Plan
- Auditor findings:
 - No analysis of increasing drought risk from climate change
 - Wanted clear triggers---if this than we will do X
 - Lack of clear documentation of the long-term actions to prepare for drought
- Drought Plan serves to aggregate, organize, and summarize information from different SWP planning and operational processes and programs.



What's in the Plan

- General descriptions of allocation decision making, forecasting, and drought decision making
- SWP objectives (wholesale water provider)
- California climate, historical droughts, and analysis of potential future droughts
- Lessons learned from the 2020-2022 drought



13 Actions to Improve long-term Drought resilience

- DCP
- CASP
- FIRO



- Storage investigations
- Evaluation of Oroville Carryover storage

- Infrastructure maintenance
- SWP Climate adaptation Plan
- Communications (DCR+)



Additional Resources:

https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/State-Water-

Project/Files/Long-Term-Drought-Action-Plan_Final.pdf

https://drought.ca.gov

California Water Watch DWRs CA Drought Monitor https://cww.water.ca.gov/





Andrew Schwarz Climate Action Manager State Water Project California Department of Water Resources

Andrew.schwarz@water.ca.gov



San Joaquin Flood-MAR Watershed Studies

TO DRIP COLLABORATIVE, WATER INFRASTRUCTURE AND PLANNING SUB-GROUP April 3, 2025 Jim Wieking



San Joaquin Flood-MAR Watershed Studies

- Calaveras
- Stanislaus
- Tuolumne
- Merced
- Upper SJ





Core Objectives of the Watershed Studies

- Report at the Watershed-scale
- Assess and Quantify Vulnerability to Climate Change
- Assess and Quantify Flood-MAR
 Adaptation Performance
- Provide a Foundation to Support Flood-MAR Implementation





Watershed Studies Overview

+ Reoperate Reservoirs

Recharge Using High Flows

Status Quo

No Action

Declining Performance with Climate Change



Local Irrigation
 Districts and Farmers

GSAs

MAR-90/20

Water Supply Benefits



+ Flood Managers+ Ecosystem Managers

I-FIRM

Flood & Ecosystems & Water Supply Benefits

Flood-MAR Adaptation Strategy Overview

	MAR 90/20	I-FIRM
Recharge	Derived from Streamlined Permitting	+ Flexibility + Forecast Informed Reservoir Operations
Directed Recharge	Retention, Disadvantaged Communities, Groundwater Dependent Ecosystems, Subsidence Mitigation	Retention, Disadvantaged Communities, Groundwater Dependent Ecosystems, Subsidence Mitigation
Supplemental Fishery Flows		Yes
Fishery Habitat		Yes
Additional Infrastructure		Yes
Shorebird Habitat		Yes
Creeks – Flow Through Basins		Yes

Adaptation Performance: Recharge - Merced

MAR 90/20 provides 30 TAF of average annual recharge, using up to 51,000 acres of ag land; I-FIRM provides 4.5 times that amount of recharge using up to 26% more ag land



* Draft Results - Subject to Change

WATER RESOURCES

Adaptation Performance: Flood Risk - Tuolumne

MAR 90/20 has minor effect on flood risk. I-FIRM decreases flood space encroachment, maximum flow at Modesto and occurrence of exceeding operational threshold.





Next Steps

- Documentation
 - Publish Five Watershed Study Reports Fall 2025
- Data
 - Data visualization tool in development
- Contact: James.Wieking@water.ca.gov



SCOPE OF WORKGROUP

Spectrum of Water Infrastructure and Planning

TYPE: Collection, storage, treatment, distribution, management

PURPOSE: Increase water supply, protect water supply, develop new water supply, improve water supply use efficiency, compliance with regulations on water supply

SCALE: Statewide, regional, local

FRAMEWORK: Grey and/or green infrastructure



For Group Discussion:

- 1. What do we mean when we say "infrastructure"?
- 2. What is the scope of this workgroup?

POTENTIAL SUBTOPICS TO NARROW SCOPE

Subtopics mentioned during past DRIP Collaborative meetings

- **Develop additional storage**, both surface water storage and underground aquifers
- Increase groundwater recharge opportunities, from flood waters and optimized reservoir operations
- Improve system flexibility, interconnections, integrate/conjunctive water resource management, and water transfers (inter- and intra-basin)
- Implement green infrastructure, where applicable i
- Identify alternative water supplies
- Evaluate further small water system consolidation (physical consolidation)



INITIAL STATEMENT



INITIAL STATEMENT

California's aging water infrastructure is not well adapted to rapidly changing climate conditions which will require new and rehabilitated infrastructure as well as reoperation. This is particularly true in how we address the extreme weather whiplash of floods and droughts and how that affects our drought resilience at state, regional, and local levels. Because extreme weather occurrences are projected to increase, California water supply and its infrastructure will be increasingly challenged to meet economic and societal demands, while still needing to address non-water supply issues such as water quality, environmental, and power production needs.



For Group Discussion:

 Given this initial statement, what should be modified to <u>inform the focus</u> of the workgroup and opportunities for recommendations?

NEXT STEPS- GETTING READY FOR THE DRIP COLLABORATIVE MAY MEETING 10 MINUTES



What's Next

APRIL: Co-leads will assist DWR Development Team Contacts to inform breakout discussions during the May meeting

MAY 16: DRIP Collaborative meeting (in-person)

• Finalize problem statements and begin ideation process for new recommendations



PUBLIC COMMENT 5 MINUTES





Adjourn Thank you!

INFORMAL DISCUSSION ON WATER INFRASTRUCTURE AND PLANNING

