

Meeting #1

Drought Resilience Interagency & Partners (DRIP) Collaborative

April 6, 2023 California Natural Resources Agency Building 715 P Street Sacramento, California

Welcome!



Meeting Information

- 1. This meeting is being live streamed.
- 2. This meeting is being recorded.
- 3. Members of the public are welcome to listen.
- 4. There will be an opportunity for public comment later in the meeting.
- 5. Please be respectful.



Public Comment

1. In-person participants:

1. Submit a comment card before or during the break.

2. Virtual participants:

- a) Raise your hand with the "Raise Hand" feature in Zoom and you will be asked to unmute and speak.
- b) Send a Zoom message to the webinar manager if you need technical assistance.
- c) If you are dialing in by phone, dial *9 to raise your hand and dial *6 when it you are called on to speak.



Meeting Goals

- Introduce members and build relationships
- Provide DRIP Collaborative overview and vision
- Learn about current conditions
- Members answer the question:
 - "What are our collaboration priorities?"



Meeting Agenda

- Opening Remarks
- Member Introduction
- 2023 Hydrology Update
- 2023 Drought Perspectives
- Member Visioning Discussion
- Public Comment
- Next steps



Welcoming Remarks Karla Nemeth

Director, Department of Water Resources Chair, DRIP Collaborative



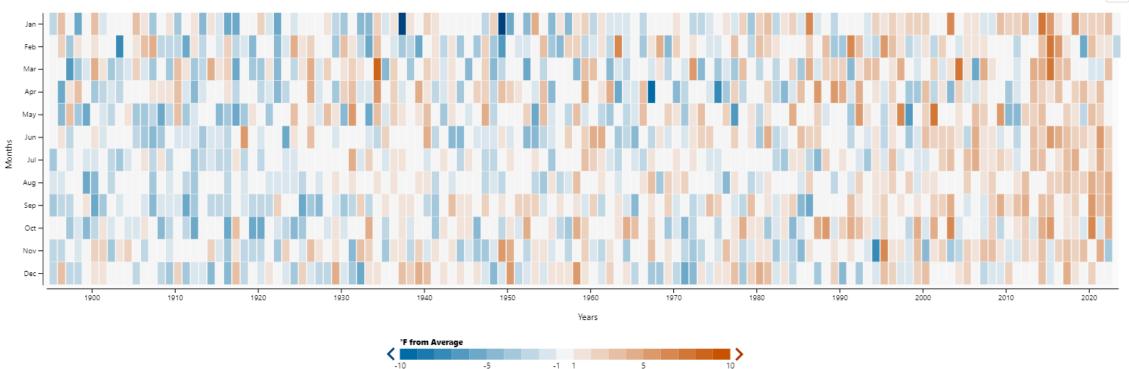
Change Is Happening

Heat Map - California (Statewide) - Monthly Departures from 1991-2020 Computed Average(s) from Jan 1895 to Feb 2023 Departure-based products are calculated from 1991-2020 Computed Average(s).

Update Variable +

53





California Climate Tracker: https://wrcc.dri.edu/my/climate/tracker/CA



Legislated Mandate

SB 552: Establishment of Interagency Drought and Water Shortage Task Force

What

• DWR to establish a standing Interagency Drought and Water Shortage Task Force in coordination with other state agencies

Purpose

- Facilitate proactive state planning and coordination, both for predrought planning and mitigation, emergency response, and post-drought management
- Develop strategies to enhance collaboration between various fields
- Consider all types of water users

Required Membership Representation

State agencies + non-state groups

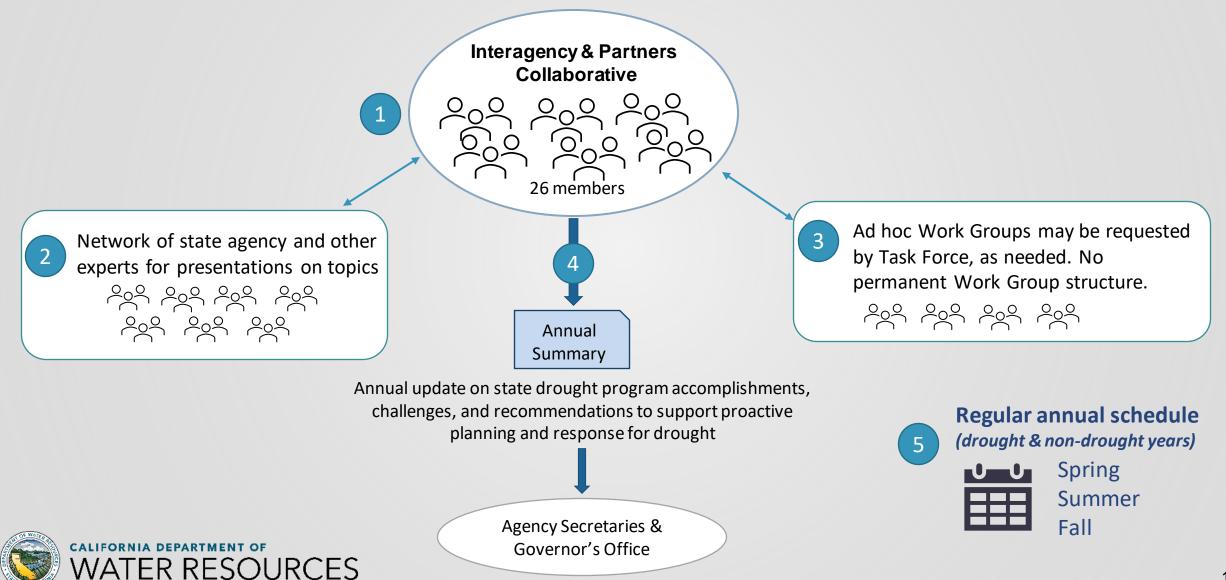


Look Back & Looking Forward

- History of SB 552
 - Drought 2012-2016: Legislation (2018) to form the County Drought Advisory Group (CDAG)
 - CDAG recommendations were passed as the basis of Senate Bill 552, including to establish this DRIP Collaborative
- Looking Forward: Key Questions Today
 - How to make this DRIP Collaborative have real traction?
 - Design with value-added
 - Identifying core function over next year+
 - Keep in mind: What would success look like by April 2024 for the task force?



DRIP Collaborative Structure





State Agency	Delegate	
CA Natural Resources Agency	Nancy Vogel	
Department of Water Resources	Karla Nemeth	
CA Dept. of Fish and Wildlife	Josh Grover	
California Environmental Protection Agency	Anna Naimark	
State Water Board	Joaquin Esquivel	
CA Dept of Food and Agriculture	Virginia Jameson (Tawny Mata)	
California Office of Emergency Services	Tina Curry	
Governor's Office for Planning and Research	Saharnaz Mirzazad (Sam Assefa)	

State Agency Members: 1 representative each

		Name	Organization
		Michael Gerace	Yurok Tribe
		Emily Moloney	Buena Vista Rancheria of Me-Wuk Indians
Tribal Representatives Technical Assistance Provider* Community-based Organizations* The Public* The Environment Agriculture Coal Government*	Representatives	Justine Massey	Community Water Center
		David Michalko	California Association of Mutual Water Companies
		Tami McVay	Self Help Enterprises
	-	Grace Person	CivicWell
	Ű	Suzanne Pecci	Domestic Well Planning Group South American Subbasin
	p The Environment	Brent Hastey	Plumas Lake Self Storage, Owner
		Anna Schiller	Environmental Defense Fund
		Redgie Collins	California Trout, Inc.
	Local Government*	Emily Rooney	Agricultural Council of California
	Local Government	Jason Colombini	Jay Colombini Ranch, Inc.
	Catherine Freeman	California State Association of Counties	
Public Water Systems		Sierra Ryan	Santa Cruz County
		Alvar Escriva-Bou	University of California Los Angeles
		Laura Ramos	California Water Institute at Fresno State
		Russ Bryden	Los Angeles County Public Works
		Katie Ruby	California Urban Water Agencies (CUWA)
(18 total, 2 per category, asterisk * indicates category specified in Water Code)			

Given extreme weather whiplash, droughts will persist. We must address drought planning and response head-on.







Sign up for the email notices

Introduction of DRIP Collaborative



DRIP Member Introductions

- Name
- Affiliation
- What are the top three areas you want to collaborate with this group?



Hydrology Conditions Updates

&

2023 Drought Perspectives



Hydrology Conditions Updates Jeanine Jones California Department of Water Resources



California Water Conditions

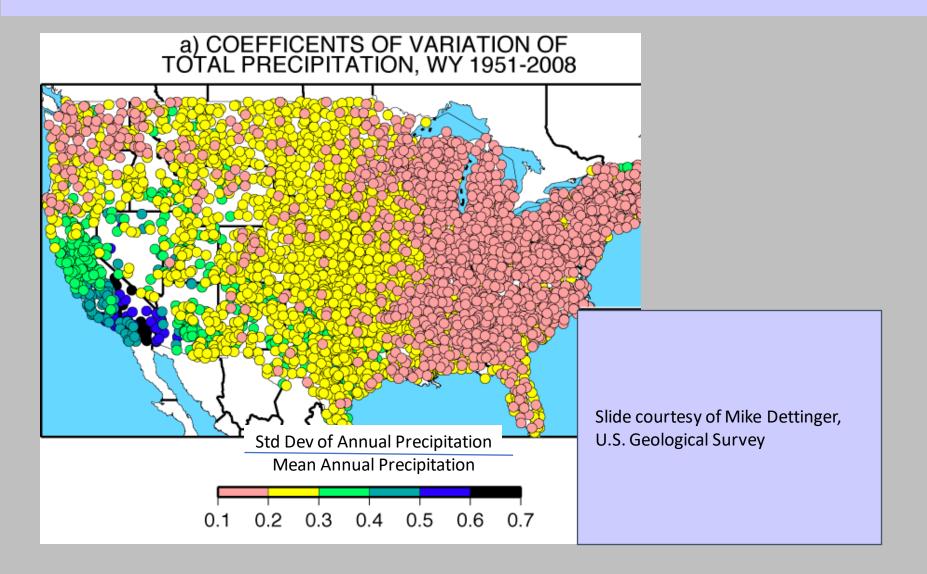
Jeanine Jones, California Department of Water Resources

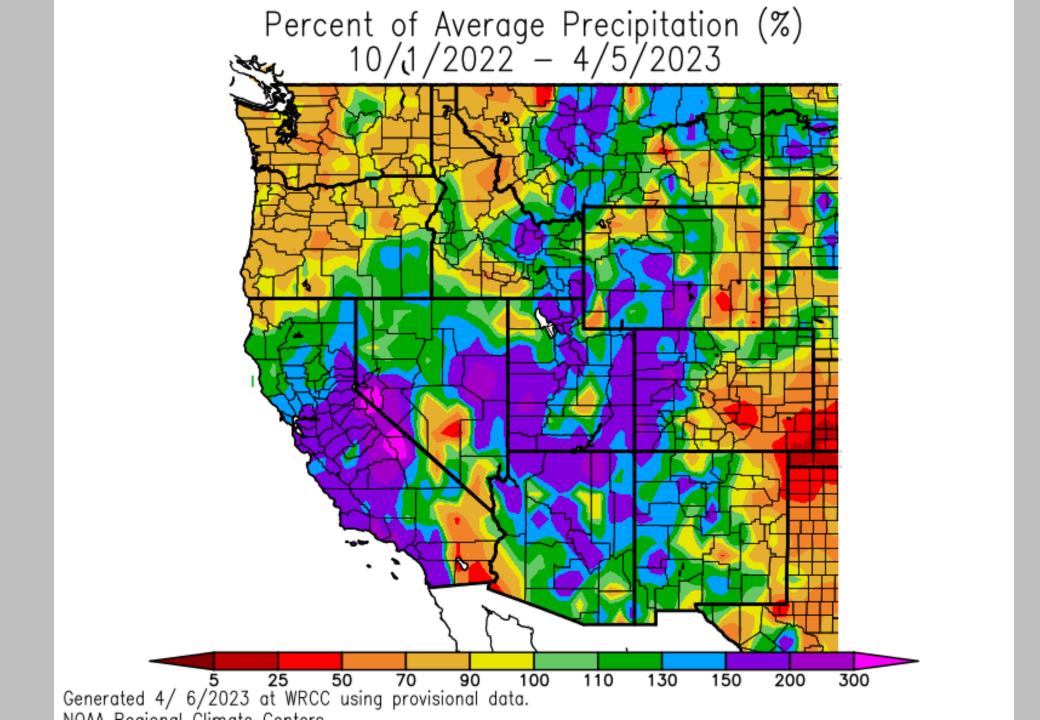
Weather Whiplash

- From driest 3-year period in the historical record to highest snowpack on record
- From a state drought emergency proclamation to a flood emergency proclamation
- Major flood response actions in multiple parts of the state
- Tulare Lakebed is flooding



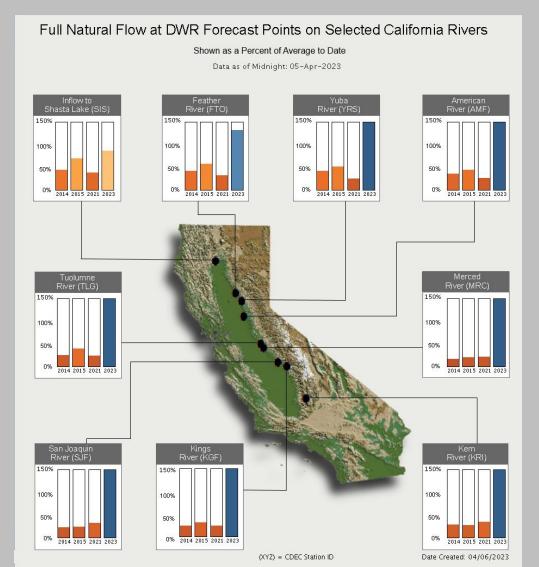
Variability of Western Precipitation



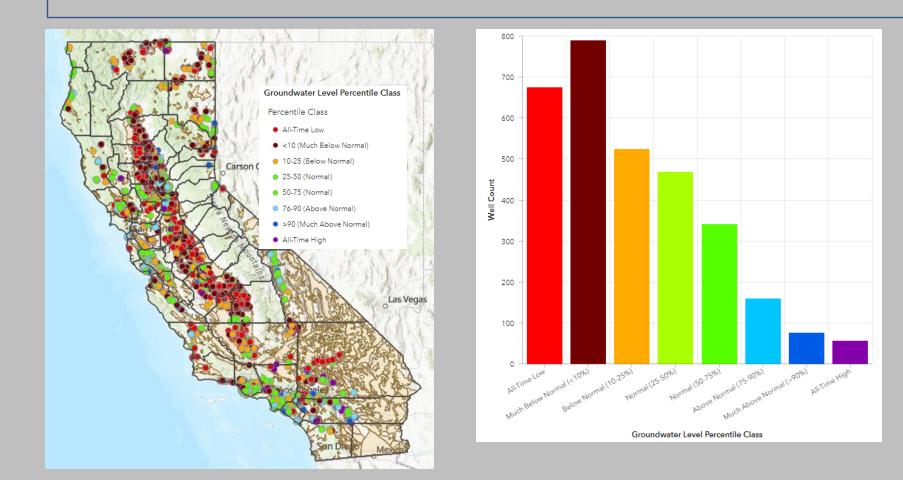


Current Conditions

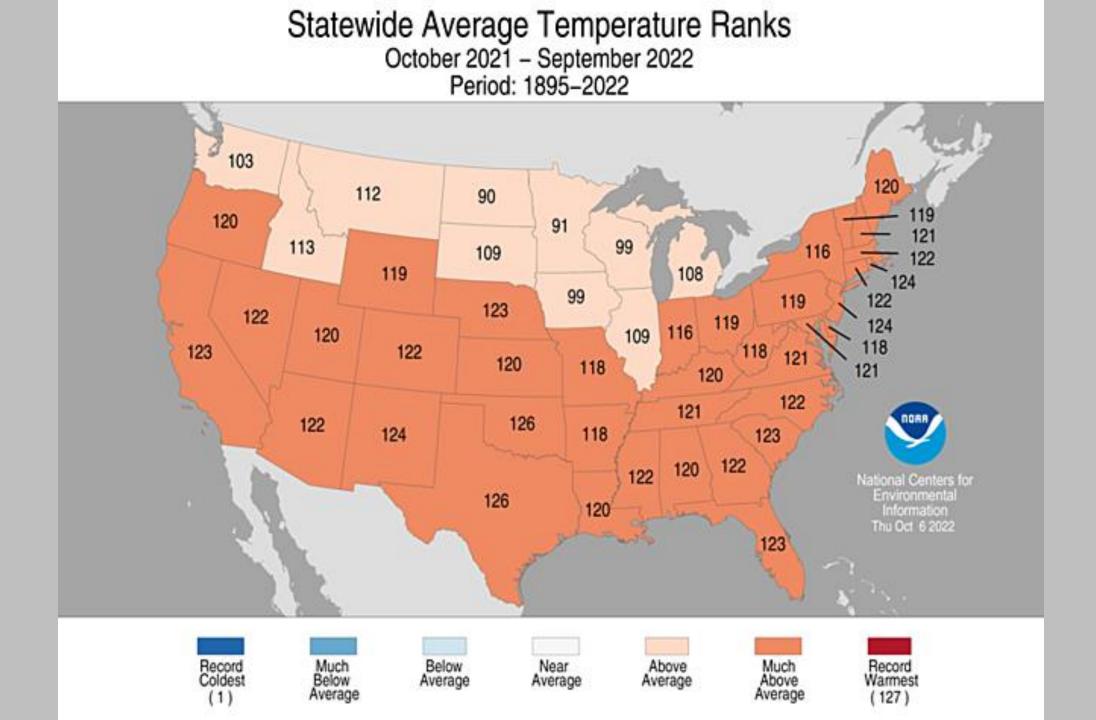
- Statewide precipitation: 149% of average for this date
- Statewide snowpack:
 239% of historical April
 1st average
- Statewide reservoir storage: 105% of average for this date

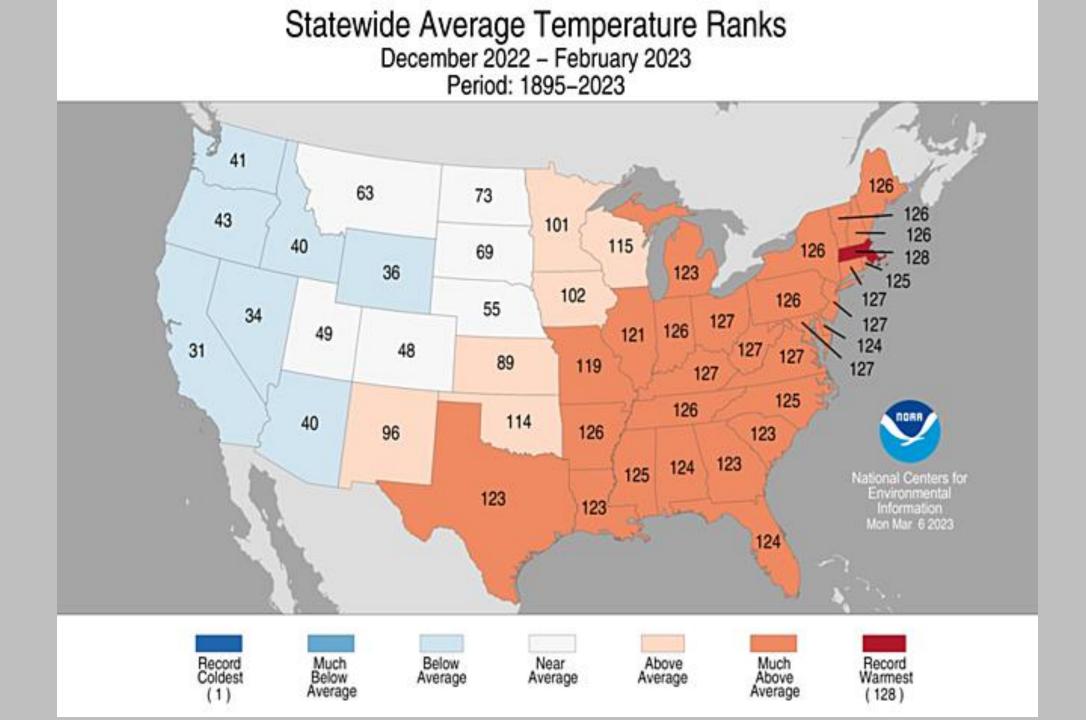


Groundwater Levels – Past 6 Months

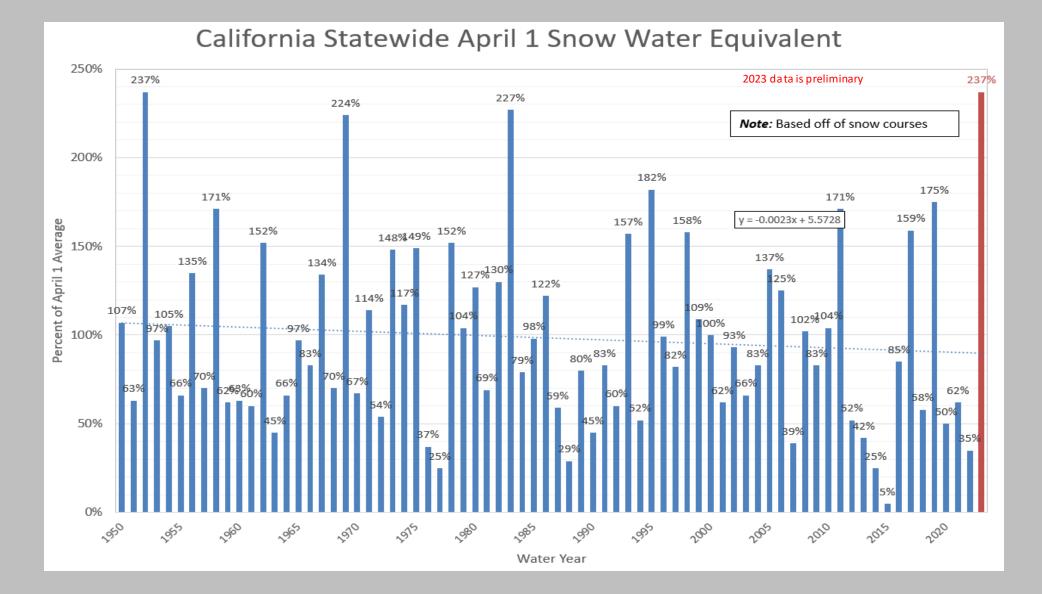


Dry wells reported Last 30 days: 42 Year to date: 133





Statewide Snowpack



Current Water Project Allocations

- SWP: 75%
- CVP: Ag 80% Urban – 100%
- Colorado River: to be determined

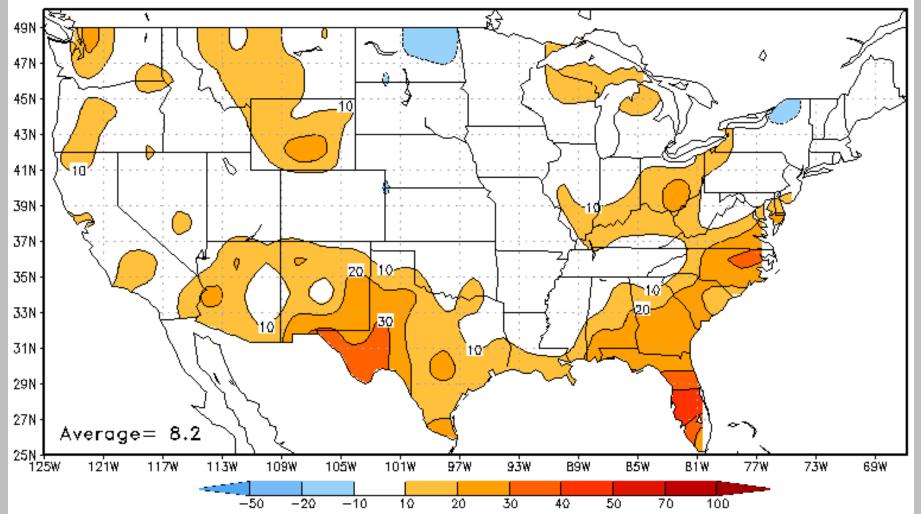


Life Beyond a Weather Forecast: Sub-Seasonal to Seasonal (S2S) Precipitation Forecasting

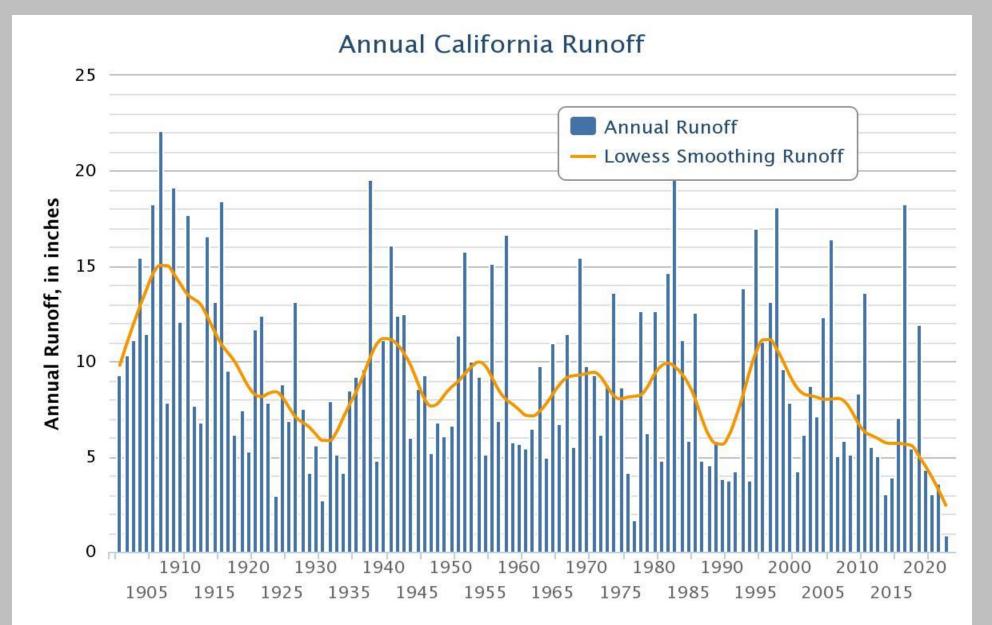
- Operational weather models typically 2 weeks out (higher skill in first week)
- Sub-seasonal 2 weeks to about 60 days
- Seasonal up to 12-24 months
- Unfortunately S2S forecast aren't skillful

Historical Skill of NOAA Seasonal Outlooks – Not Usable for Water Management

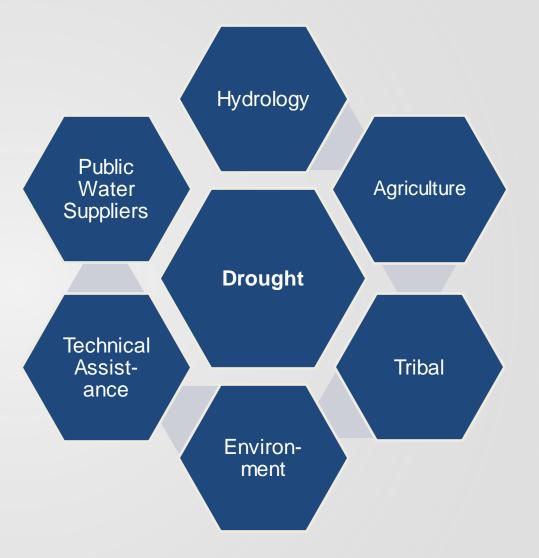
Seasonal (Lead 0.5 Months) Precipitation Heidke Skill Score DJF Manual Forecasts From 1995 to 2022



USGS Calculated Statewide Runoff Will WY24 Be Déjà Vu All Over Again?



Drought Perspectives Panel





Drought

Perspectives

Prompts

- What does drought mean from your perspective?
- What challenges do you face and what solutions do you suggest?
- What actions/preparations are underway for the upcoming drier summer months?



Self Help Enterprises Tami McVay



What does drought mean?

Challenges

- Lack of Licensed Professional Well Drillers
- One Size DOES NOT FIT ALL
- Funding
- Systematic/Legislative Deficiencies
- Trust

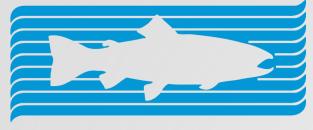
Solutions

- One Size DOES NOT FIT ALL Broaden language in programs to allow alternative solutions. (ex. hauling water outside GSA/county/city boundaries)
- Funding Ongoing Annual Allocation in the State Budget for Drought Response. Remove disaster specific silos and consider "climate related disasters" which allows funds to provide a broader impact instead of saying "sorry wrong disaster"
- Systematic/Legislative Deficiencies Major Reform
- Trust Provide adequate funding for outreach and trust building in communities.

Is Self-Help Listo?

- Fully Staffed Preparedness/Education team, Residential and Community Emergency Response Teams, Recovery Teams, Resiliency Team & Data Analyst Team
- Updated Software & Mapping Systems
- Strengthened Existing & Created New Partnerships
- Building Capacity Statewide
- Amazing Contractors & Vendors
- Organizational Dedication & Support

CALIFORNIA TROUT



FISH · WATER · PEOPLE



REDGIE COLLINS LEGAL AND POLICY DIRECTOR CALIFORNIA TROUT



THE EVIDENCE FOR CHANGE

45% of native salmon, steelhead and trout species extinct in 50 years if present trends continue

FISH IN HOT WATER

td solutions for California salmon, ...ut. CALIFORNIA

FISA WATER



Ne. De Rob Lusardi and Patrick Samuel commissioned by California Trout

OUR BELIEF

California's future depends on healthy and clean water



Drought Perspective Panel DRIP Collaborative Meeting #1 *April 6, 2023*



Protecting California's #1 Industry

Snapshot: Drought in Sacramento Valley

<u>Three-year drought in Sac Valley:</u>

- Rice -50%
- Fruit/trees -10%
- Vegetables/others -20%
- 14,300 jobs lost and over \$1.3 billion in economic value added lost in regional area
- Impacts to wildlife and local communities
 - 230 wildlife species rely on rice fields
 - Rural communities rely on successful, local ag economy



Protecting California's #1 Industry

<u>Snapshot: Flooding in San Joaquin Valley</u>

Impacts of Tulare Lake Flooding

- Communities evacuated
- Crops under water
- Dairies evacuated
- No solid, comprehensive data yet:
 - Projected losses in permanent and annual crops
 - Feed prices likely to skyrocket for livestock producers
- Food processing plant(s) shut down
- Meetings being held now on how to plan for Spring run-off



<u>Common Themes</u>

- Planning, planning, planning: key to managing climate crisis
- When drought or disaster comes in rural communities, impacts are broader than agriculture
 - Wildlife, local communities also impacted
- Improved timelines needed for disaster-related programs
- Modern technology could be utilized to improve data collection process
- Upgraded water infrastructure always imperative
- More to learn



Questions? Emily Rooney, <u>emily@agcouncil.org</u>

CUWA agencies serve two-thirds of the state's population and are committed to providing reliable water supply.

Retail Agencies:

- Alameda County Water District (ACWD)
- East Bay Municipal Utility District (EBMUD)
- City of Fresno
- Los Angeles Department of Water and Power (LADWP)

Retail/Wholesale Agencies:

- Contra Costa Water District (CCWD)
- City of San Diego
- San Francisco Public Utilities Commission (SFPUC)

Wholesale Agencies:

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- Metropolitan Water District of Southern California (MWDSC)
 - Santa Clara Valley Water District (Valley Water)
- San Diego County Water Authority (SDCWA)
- Zone 7 Water Agency (Zone 7)

Drought is a recurring feature of California's climate, and urban water suppliers have many tools to prepare and respond.

While every water supplier must plan for drought, the path to resilience looks different for everyone.

Hydrologic Conditions | Precipitation, snowpack, runoff Water shortage can be caused by Storage Levels | Surface reservoirs & groundwater many different factors, which vary across the state. **Ecosystem Health & Regulations |** Fishery obligations & curtailments At any given time, shortage conditions (of varying levels) **Operational Capabilities** | Water quality & infrastructure constraints may exist for some agencies and not others, based on local and regional factors. **Demand** | Customers' water needs (varies by season)

Urban water suppliers have many tools to respond:



Using Diverse Local Supplies



Water Transfers and Exchanges









Shifts in Operations

Demand Reduction

Overcoming barriers to water supply reliability projects.



Collaboration is key for advancing drought resilience.

DRIP Member Q&A



Break

Public Comment Reminder

- 1. Fill out comment card in-person
- 2. Join online through Zoom
 - If you do not want to make a comment, please watch the livestream on YouTube

For more information: https://bit.ly/DRIP-News



DRIP Collaborative Visioning Discussion



Word Cloud



Large Investments Floodplain Restoration Local considerations Scaling-up Drought Response Resilient Systems and Back-up Plans

Trust-building RWP Science and Data

Land Use, Land Management, Transition and Repurposing

Emergency Response

Collaborative Decision Making

Resilience

Improving Statewide Water Infrastructure

Identifying Multi-Use Solutions

Improve Communications/Messaging

SGMA Collaborating on Common Goals

Groundwater Recharge Best Practices Drought Rebranding

Consensus Building

Monitoring and Closing Knowledge/Data Gaps

diutica alizing Onsight Planting

Opportunities for Increased Collaboration

Climate Change Rural Communities Supporting Innovative Ideas Grant Programs Small Systems

Visioning Discussion



Think: (use your worksheet)

- What drought actions have been successful?
- What are current or future drought challenges or barriers?



- Share: (write ideas on chart paper)
 - What opportunities exist that could or should be explored by this Collaborative?
 - What does success look like for this DRIP Collaborative?

Vote: (use your stickers)

• What are our collaboration priorities?

California DRIP Collaborative

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Next Steps & Evaluations





Adjourn Thank you!

