

# ***Drought Task Force Workshop No. 5: Draft DCP and Task Force Planning***

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Western Municipal Water District  
*April 21, 2022 • 1:30 – 3:30 p.m.*

# *Workshop Goals*

Review the draft DCP and provide feedback

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Conduct a Mock Drought Task Force meeting

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# Presenters/Facilitators

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**Katie Laird**  
Project Manager, GEI



**Roger Putty**  
Water Resources  
Engineer, GEI



**Melissa Matlock**  
Water Resources  
Specialist II,  
Western Municipal  
Water District



**Ryan Shaw**  
Director of Water  
Resources,  
Western Municipal  
Water District



**Laine Carlson**  
Civil Engineer, Water  
Systems Consulting  
(WSC)



**Amy Stevens**  
Facilitator,  
Water Systems  
Consulting (WSC)



# Workshop Agenda

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- Welcome
- Drought Contingency Planning (20 min)

## Mock Task Force Meeting

- Regional Drought Conditions and Potential Impacts - Metropolitan Water District (10 min)
- WSCP Updates (20 min)
- Drought Communication Toolkits (20 min)
- Open Forum Poll /Discussion (15 min)

## Reflection

- Task Force Planning (25 min)
- Close



# ***Drought Contingency Planning***

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Katie Laird, *GEI*



Climate Change  
Vulnerability  
Assessment TM



Drought  
Monitoring TM

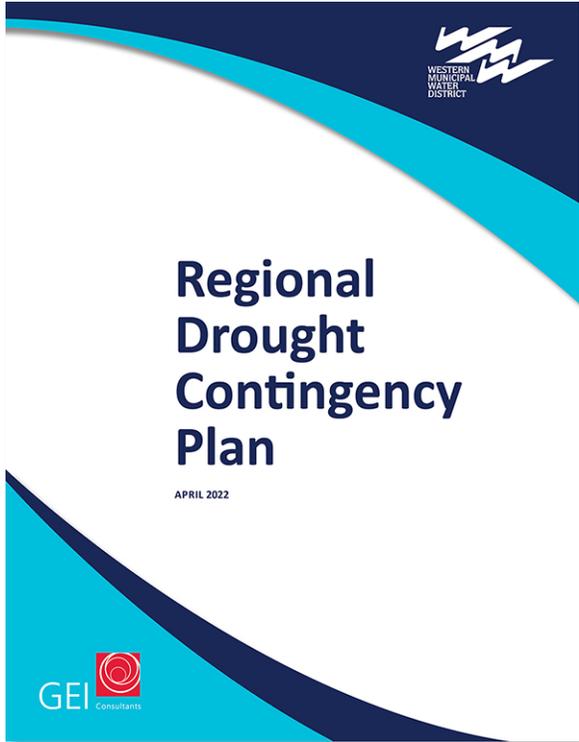


Workshops 1 - 4



Mitigation  
Actions TM





Look here for help to answer those questions

How will we recognize drought in its early stages?

How will drought affect us?

How can we protect ourselves from the next drought and increase opportunities for grant funding?



# Workshop 5: April 21, 2022



# *How will we recognize the next drought in its early stages?*

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- **Regional Drought Portal**
- **Drought Task Force Meetings**

## **Benefits:**

- Early alerts of troubling drought indicators
- Information and knowledge exchange
- Opportunity to promote consistent messaging
- Address regional challenges and identify collaborative opportunities
- Grant and other funding opportunities



# How will we recognize the next drought in its early stages?

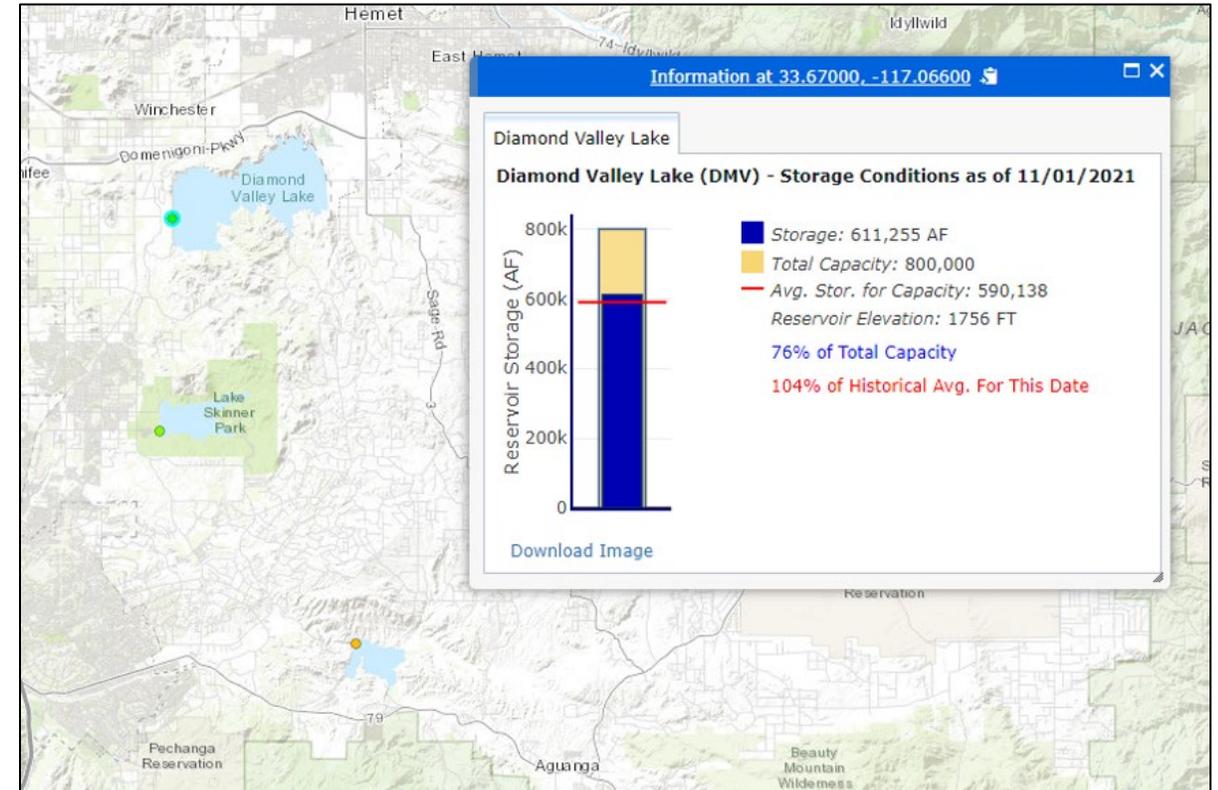
The **Regional Drought Portal** will provide a platform to post, collect, and disseminate key datasets for regional drought planning and response:

*To assess local conditions:*

- Groundwater levels
- Annual assessment results

*To assess imported supplies:*

- MWD storage levels



# How will we recognize the next drought in its early stages?

## Drought Task Force Meetings

Provide a forum for members to review data, share updates, and coordinate drought response

Convened based on regional conditions

Regional Drought Stage	Meeting Frequency	Triggers				
		Drought Monitor (DCP Region)	MWD WSAP/Similar Action	Agencies in Declared Shortage*	Statewide Drought Proclamation	Riverside County Drought Proclamation
Normal	Annual	None-Abnormally Dry	--	None	--	--
Watch	Quarterly	Moderate-Extreme Drought	Levels 1 and 2	3 or more	Drought	Drought
Alert	Monthly	Exceptional Drought	Levels 3 thru 5	6 or more	Drought	Drought
Emergency	Weekly	Exceptional Drought	Levels 6 and 10	10 or more	Drought	Drought

\*Not including state mandated shortage



## *How will drought affect us?*

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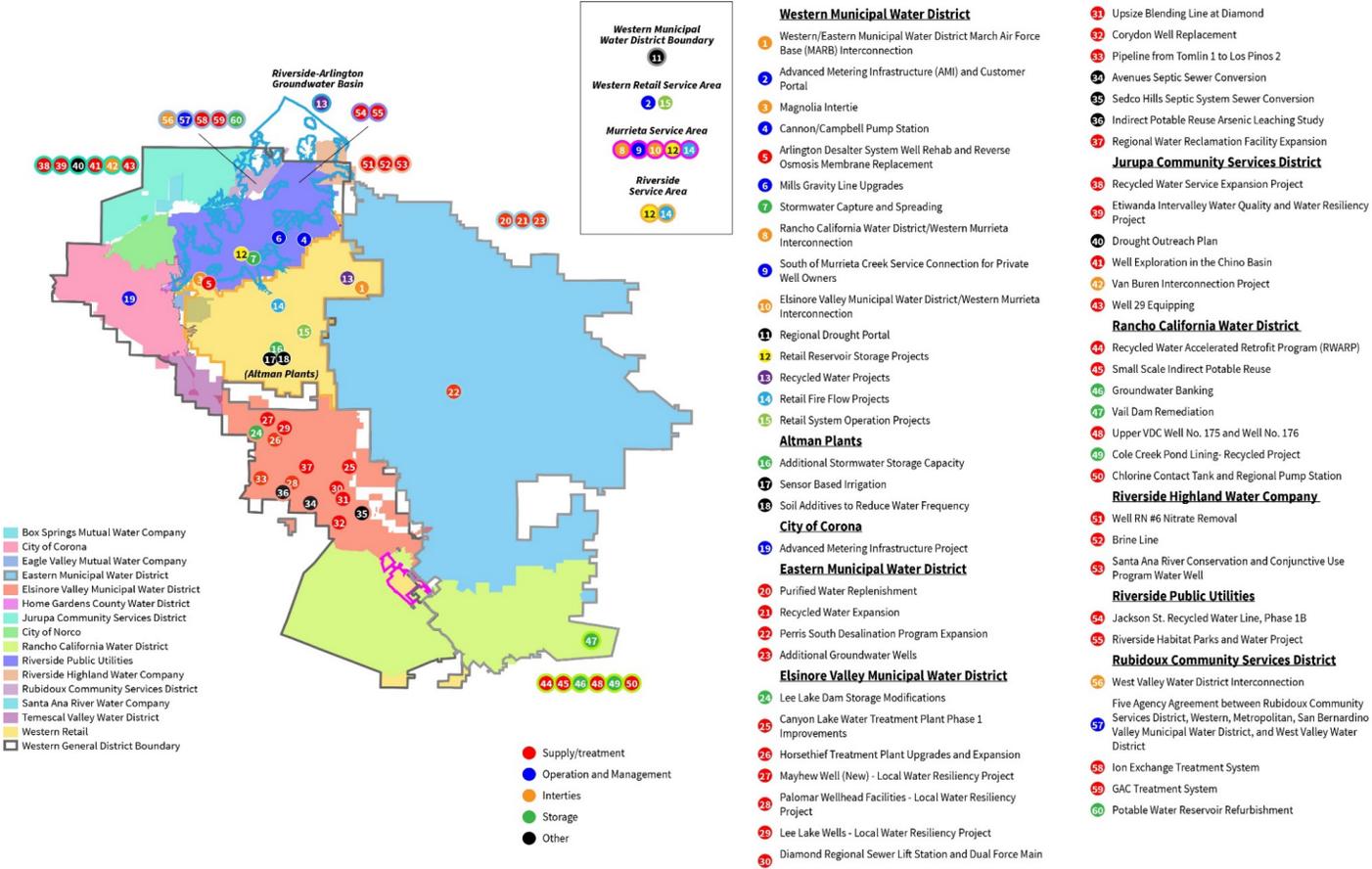
A **climate change vulnerability assessment** performed as part of the DCP indicated that the **region's dependence on imported water will increase** if the region does not implement mitigation strategies ahead of drought

A tool which evaluates **future estimates of supplies and demands** considering the effects of climate change is available upon request from Western



# How can we protect ourselves from the next drought?

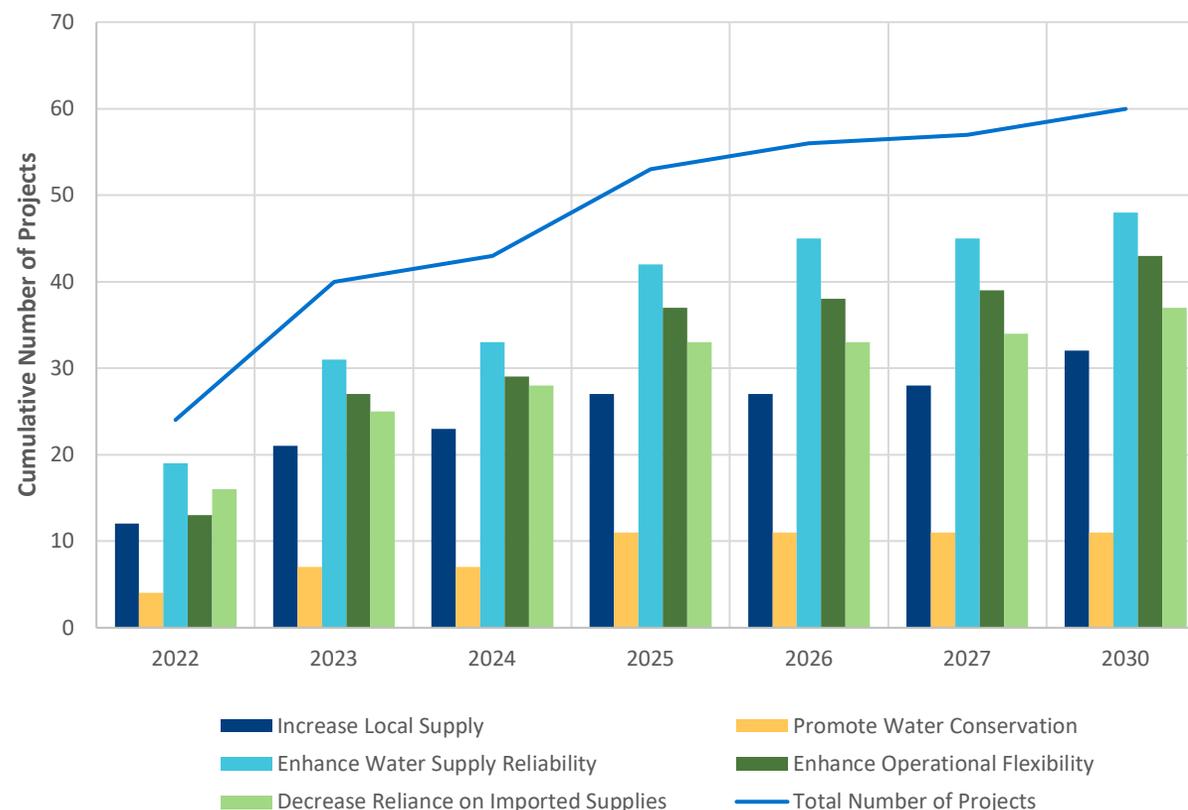
Identifying projects that align with yours to demonstrate a regional benefit can make your grant applications more competitive



# How can we protect ourselves from the next drought?

A total of 60 projects, programs, and/or strategies were included in the DCP

By including projects in the DCP, the projects have increased opportunities for **grant funding** – **review the DCP to ensure your projects are included!**



# *Opportunity for Regional Collaboration for Mitigation Funding*

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- Regional Water Quality Project
  - Partner agencies: WMWD, RHWC, RCSD
- Applying to USBR's WaterSMART Drought Resiliency Project
  - Applying for funding group 3
  - Up to \$5M in grant funds

Earn up to 15 extra points for projects included in the DCP!

**Partnership arose through review of the DCP** mitigation projects submitted. We found a common project theme that would be eligible under this funding opportunity and instead of competing against each other, **we are working together to make our grant submission as strong as possible.**



# *Mock Task Force Meeting*

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Amy Stevens, WSC

# *Meeting Agenda*

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## **Mock Task Force Meeting**

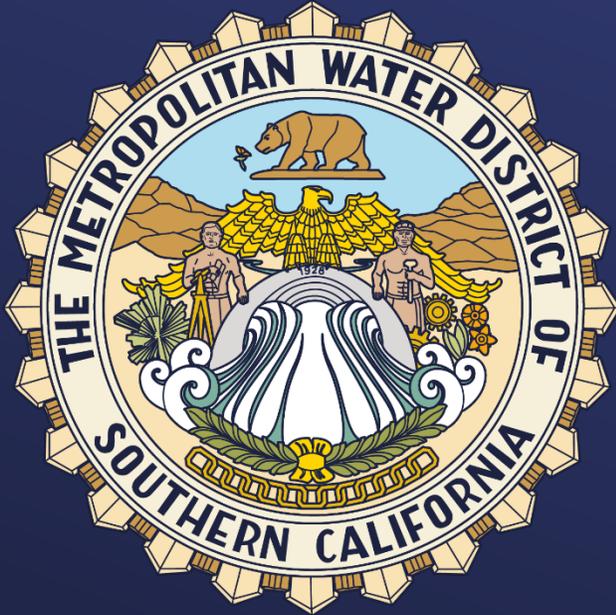
- Drought Conditions and Potential Impacts (10 min)
- WSCP Updates (20 min)
- Communication Toolkit (20 min)
- Open Forum Poll (15 min)



# *Regional Drought Conditions and Potential Impacts*

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Demetri Polyzos, Metropolitan Water District



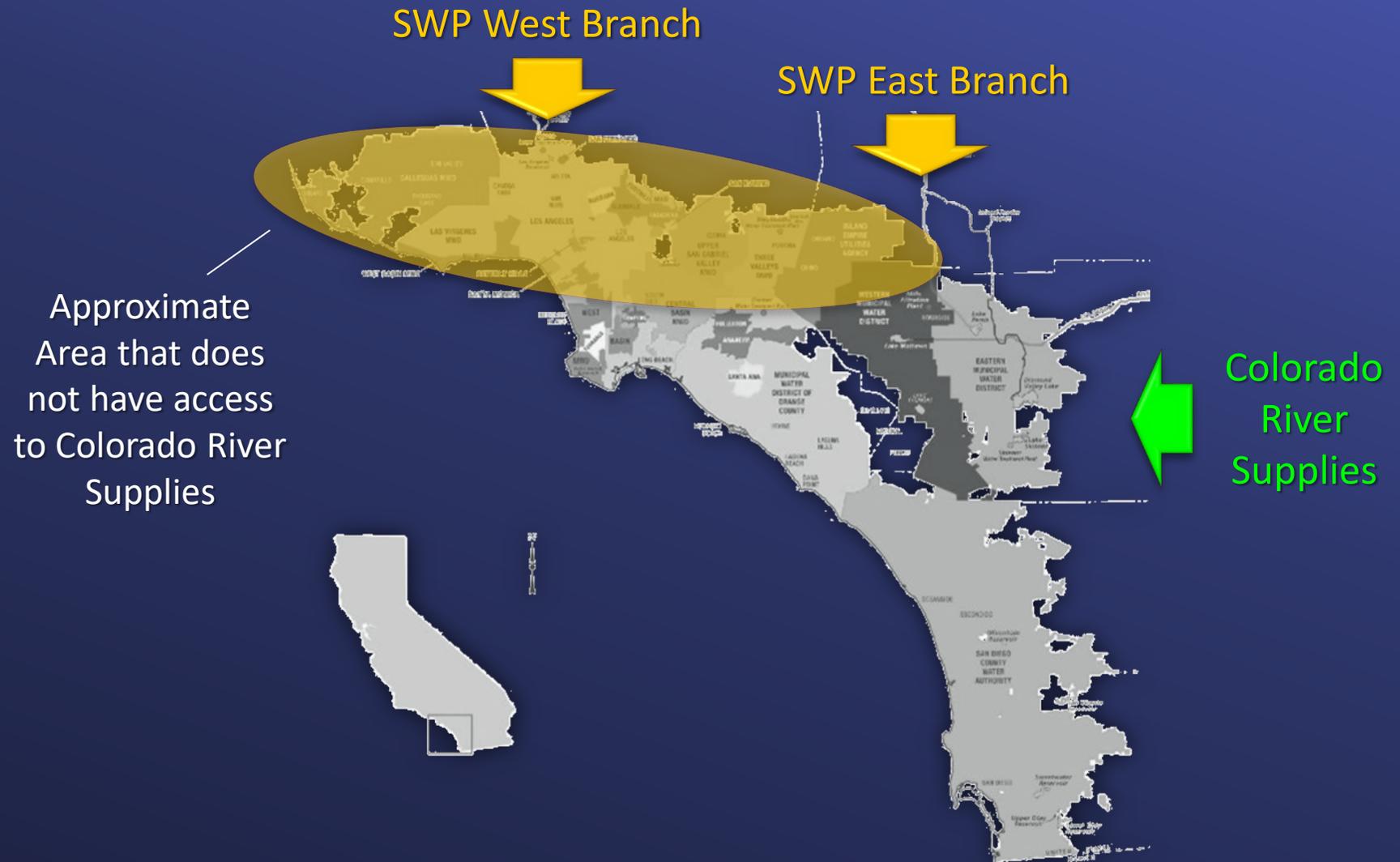
Western Drought Task Force Meeting

# Metropolitan's Supply and Response Action Update

April 21, 2022

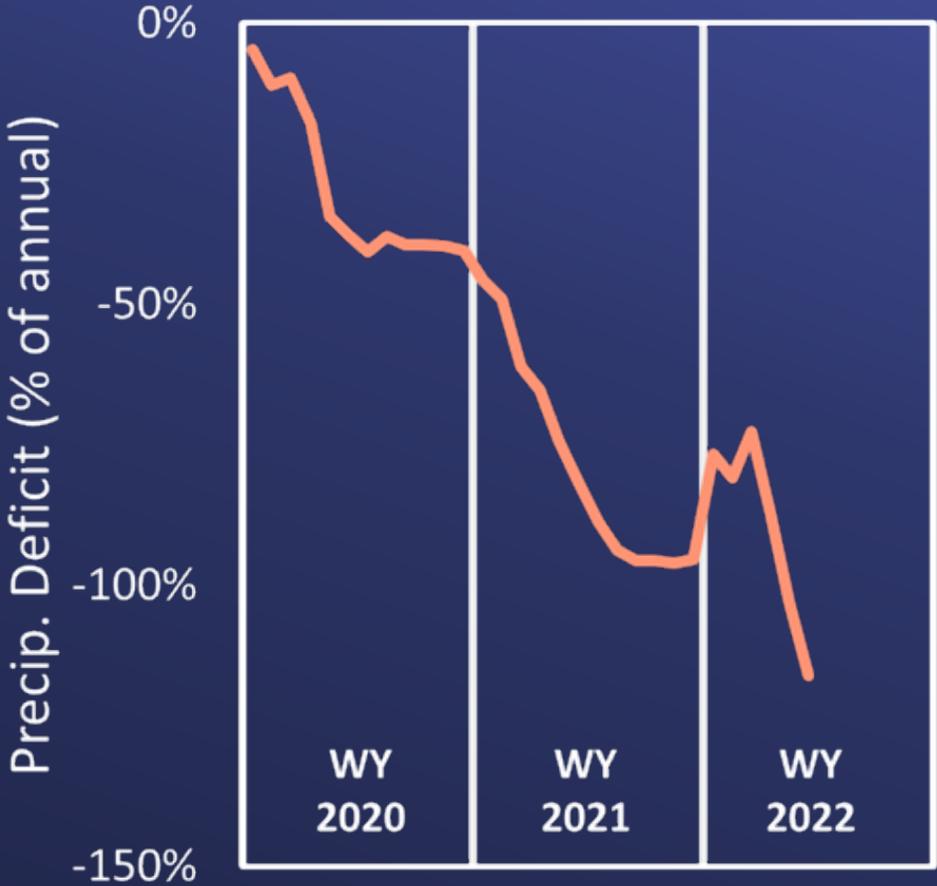
# Metropolitan Water District Imported Supply

Colorado River  
Supplies do  
Not Reach **All**  
Portions of the  
Service Area



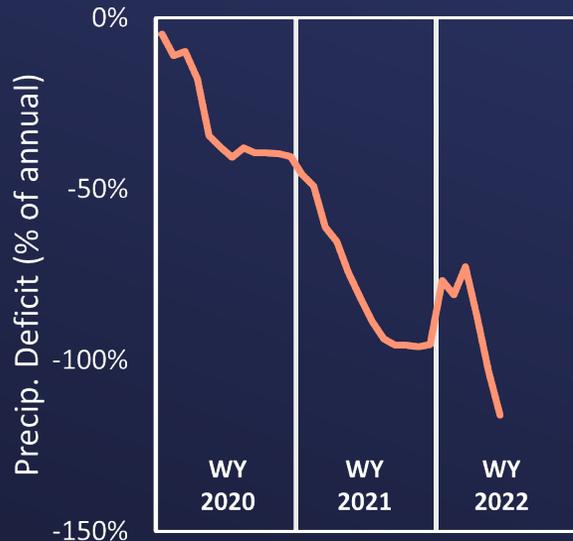
# Third Year of Drought

How did we get here?



8-Station Index Precipitation

How did we get here?



8-Station Index Precipitation

## Third Year of Drought

- Driest 3 years
- Driest 3 months (Jan. – Mar.)
- Lowest 3-year total deliveries from State Water Project

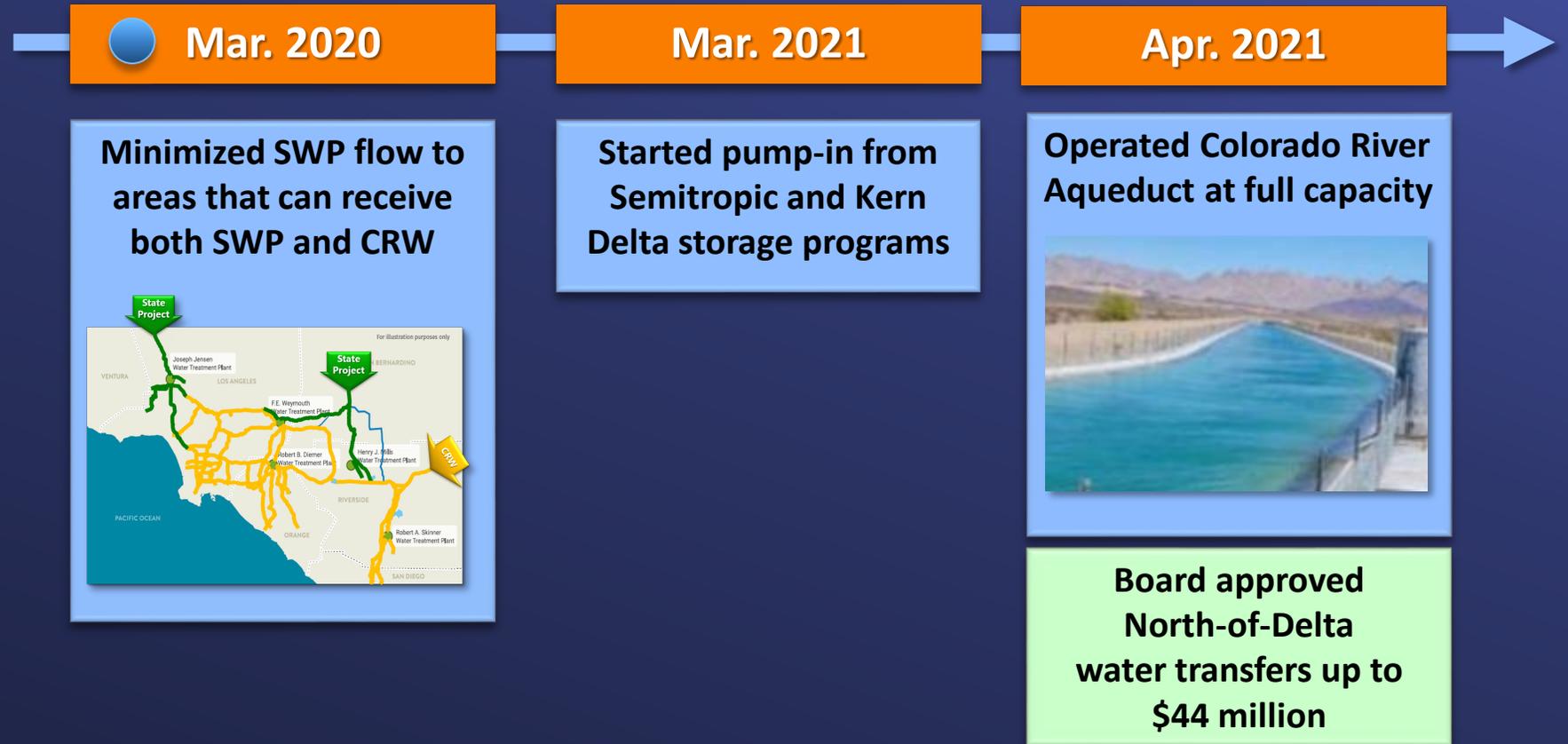
Average Expectation for SWP	3.2 million AF
DWR's Lowest Forecast	1.0 million AF
Today	0.6 million AF

# What did we do as the drought intensified?

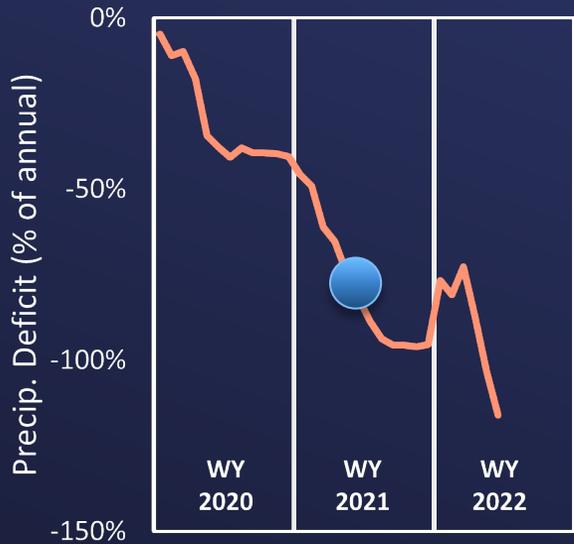


8-Station Index Precipitation

## Proportionate Response Since Mar. 2020

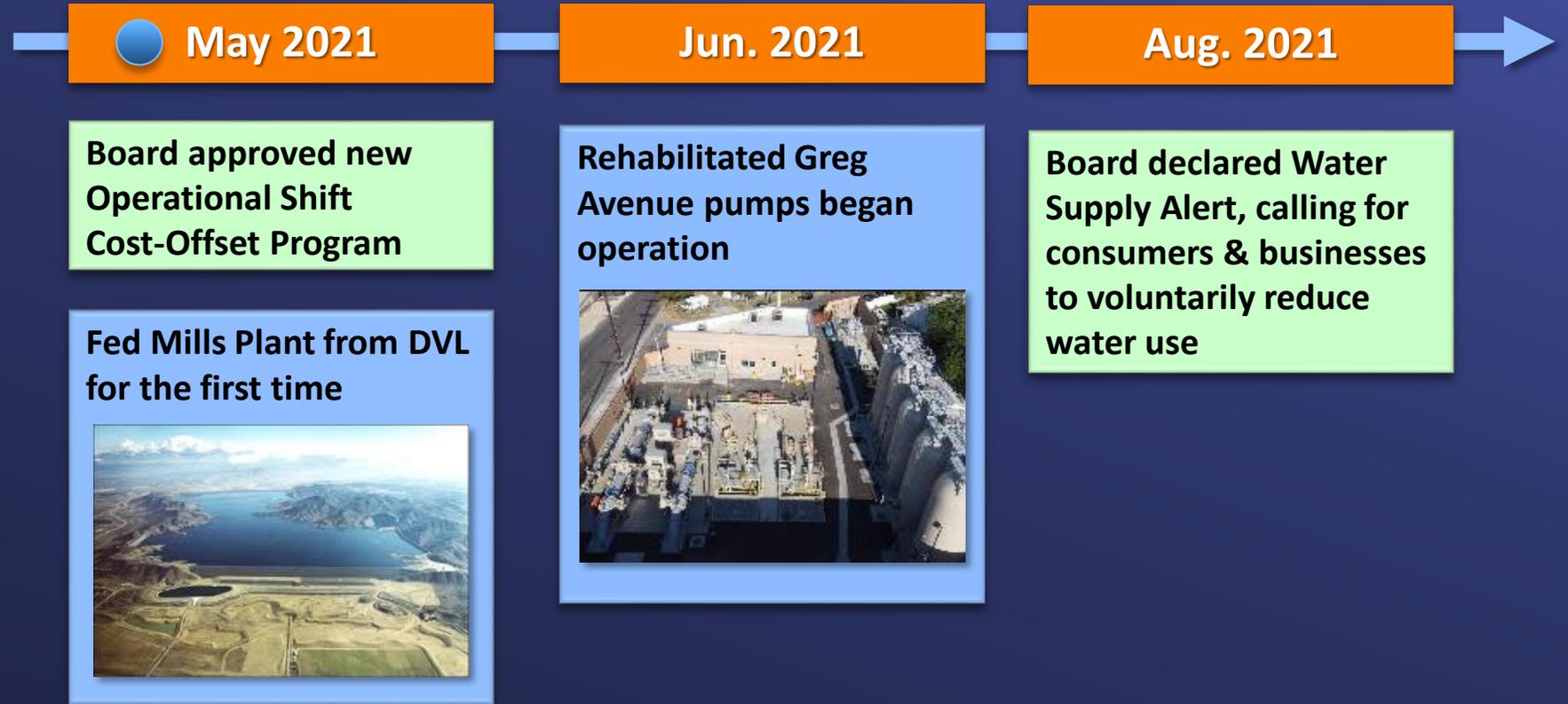


# What did we do as the drought intensified?



8-Station Index Precipitation

## Proportionate Response Since Mar. 2020

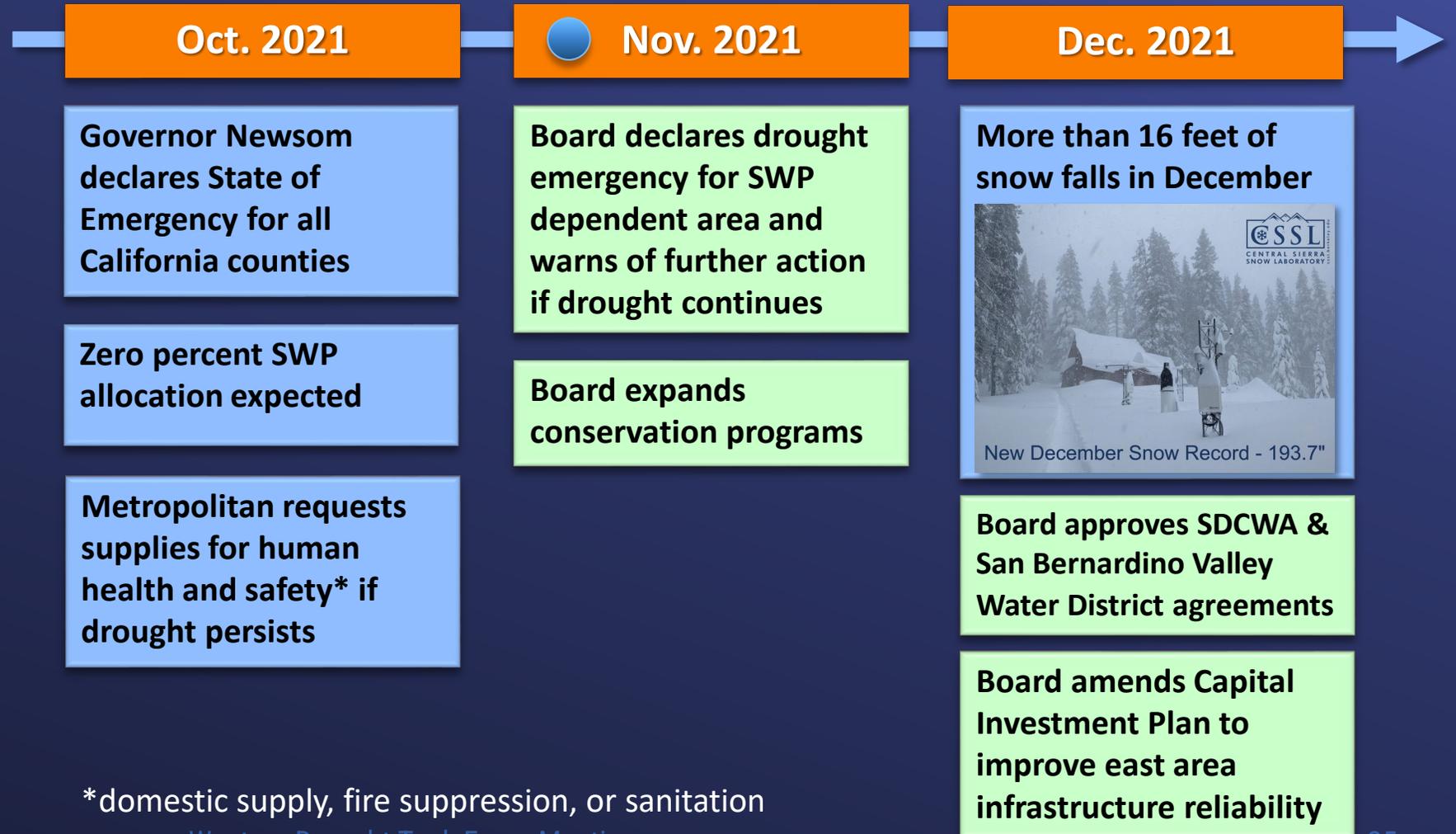


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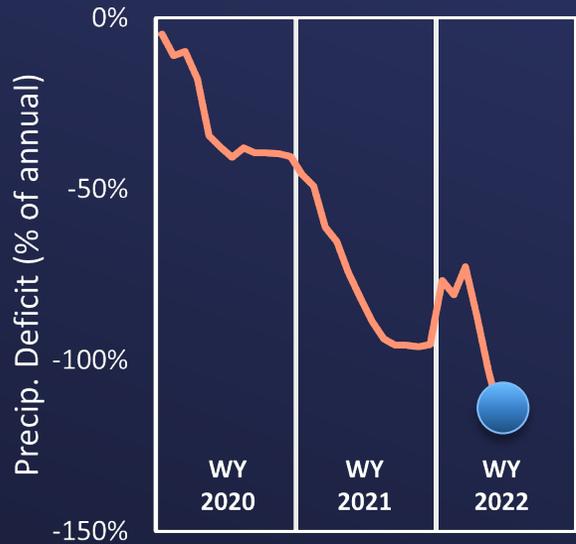
8-Station Index Precipitation

## Proportionate Response Since Mar. 2020



\*domestic supply, fire suppression, or sanitation

# What did we do as the drought intensified?

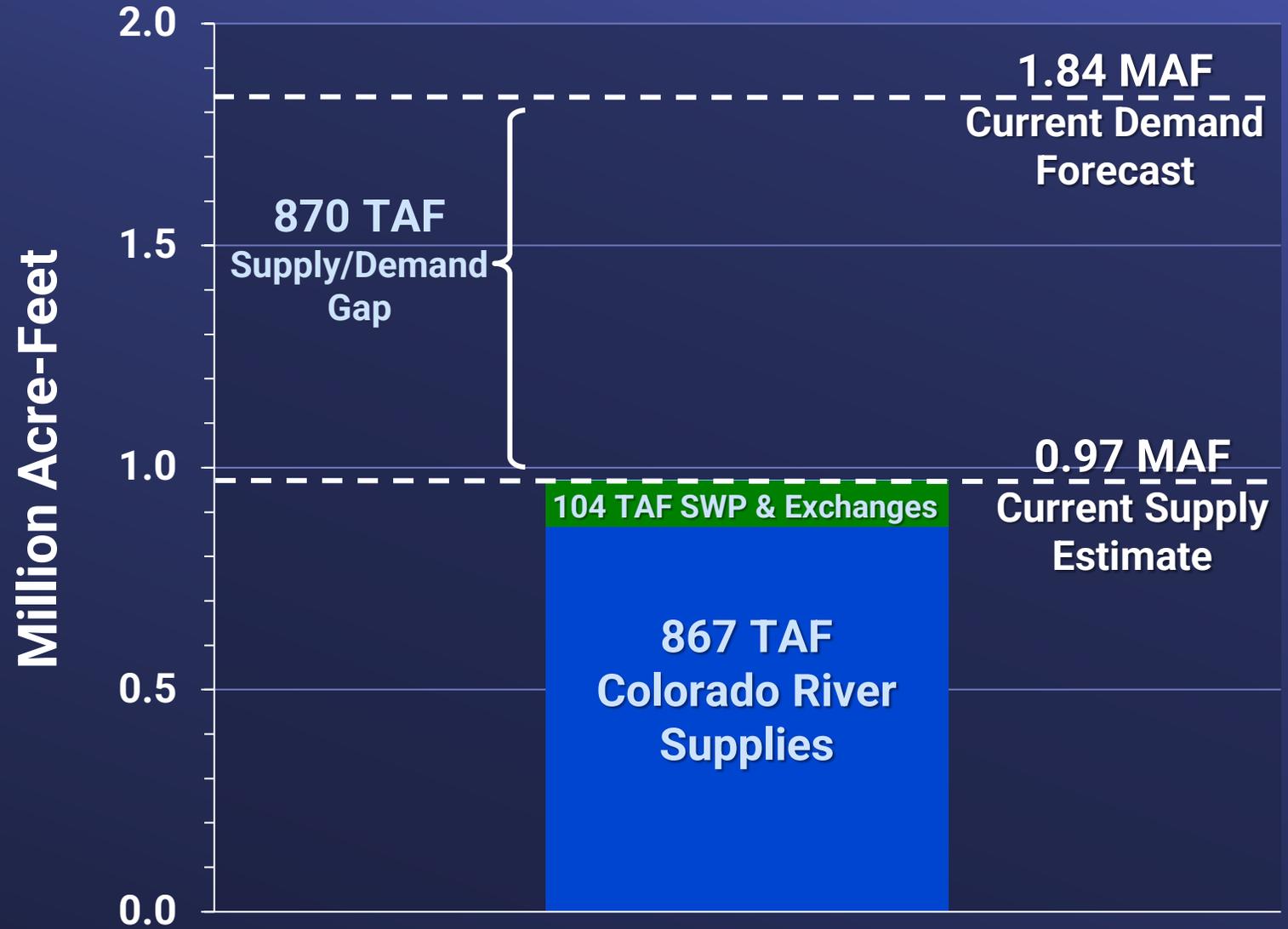


8-Station Index Precipitation

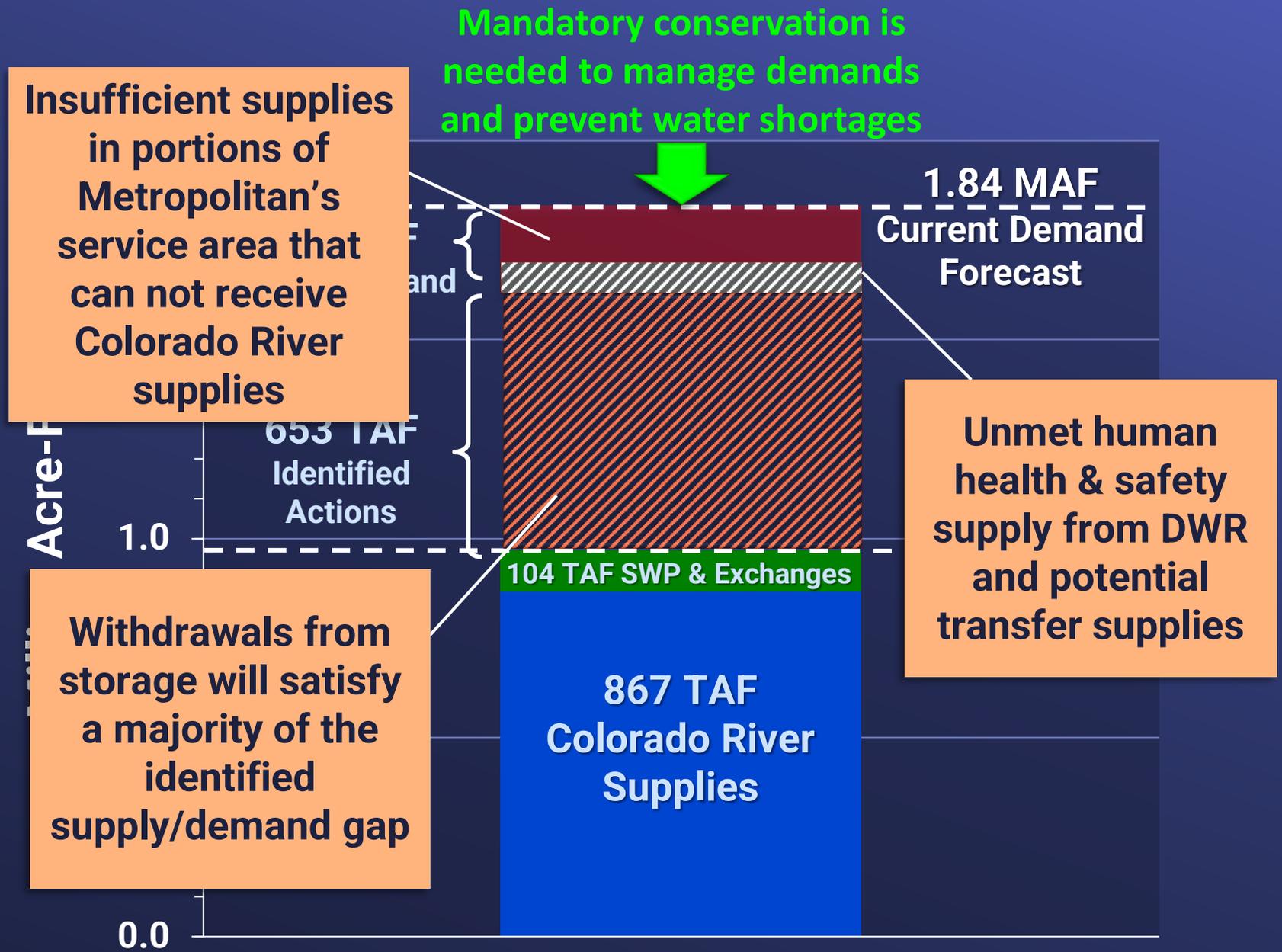
## Proportionate Response Since Mar. 2020



# Regional Supply Demand Balance



# Regional Supply Demand Balance



Proposed  
framework for  
Emergency  
Conservation  
Program

## Three main elements of the Emergency Conservation Program

- Mandate and enforce conservation actions
  - Such as single day per week outdoor watering
  - Potentially no outdoor watering (if warranted)
- Volumetric penalty \$ X per acre-ft
  - Assessed on all SWP delivered to non-compliant water provider (e.g., only part wholesale Member Agency delivery )
- Incentivize local production and conservation
  - Outdoor watering restrictions and penalties do not apply if agency eliminates need for delivery of water from SWP

Goals of  
the  
Emergency  
Conservation  
Program

## Seeking three objectives

- Preserve scarce supplies this year
- Minimize take of human health and safety water
- Prepare for a potential fourth year of drought



# *WSCP Updates*

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Amy Stevens, WSC

slido

What WSCP stage are you in now?

 Start presenting to display the poll results on this slide.

slido

Do you plan on moving to a different stage?  
Do you have a date in mind?

 Start presenting to display the poll results on this slide.

slido

Which types of water shortage response actions are you focusing on?

 Start presenting to display the poll results on this slide.

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What other types of water shortage response actions are you focusing on?

 Start presenting to display the poll results on this slide.

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What information is helpful from water agencies and the media?  
What is missing?

 Start presenting to display the poll results on this slide.

# *Drought Communication Toolkits*

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Melissa Matlock, WMWD

# Inland Empire Clean Water Partnership

## Drought-O-Meter



### KEEP IT UP!

Your water-wise practices are paying off and we, as a region, are better prepared for drought that we've ever been. You know what to do—so **KEEP IT UP!**

## DROUGHT

It's back, but you know what to do.

#KeepItUpIE

A message from your community water providers.

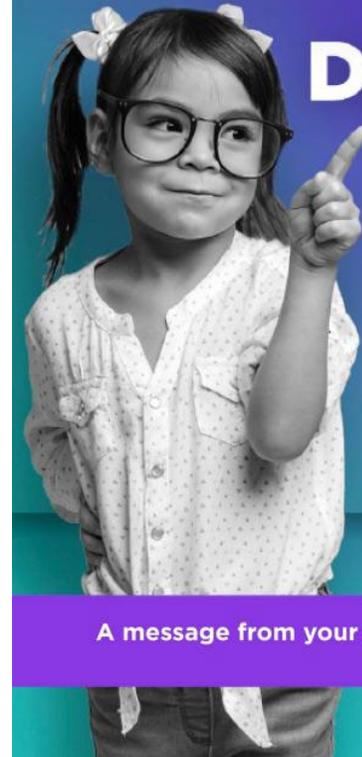


## DROUGHT

It's back, but you know what to do.

#KeepItUpIE

A message from your community water providers.



[www.emwd.org](http://www.emwd.org)



# Western Municipal Water District

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- Continuing “Step it up” call-to-action with increased urgency.
- Regional effort launched via the Inland Empire Clean Water Partnership; uses the same images and call to action.
- Focus on water saving tips that customers can easily incorporate into their everyday routines.  
Remind customers about our enhanced rebates and encourage them to apply.

## Future Efforts

- Blanket our region with drought messaging.
- Targeted messaging to out of budget customers.
- CII outreach for non-functional turf
- Increase the urgency/seriousness of messaging

**You’ve heard it all your life, but saving water during a drought is more important than ever.**

**JUST  
USE  
LESS**

**#StepItUp**



**A message from your community water provider**



# Metropolitan Water District

Metropolitan's Board of Directors approved \$10.5 million to expand advertising and outreach efforts to increase public awareness of the drought and the need for conservation

The multilingual campaign will be featured in a variety of ways:

- Radio
- Digital
- Social media
- Outdoor advertising platforms



# Metropolitan Water District

## Full campaign set to launch May/June 2022

- Photography based campaign showcasing real and diverse people from southern California.
- Saving tips are presented in a friendly and personal way
- Utilizes a combination of media platforms to blanket the southland with positive, helpful tips on how to save water
- Messages develop a greater sense of urgency, but not emergency
- Anticipating a long-term relevancy of a sustained high-level conservation effort



# *Open Forum Poll*

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Amy Stevens, WSC

slido

Which additional topic would you like to discuss today?

 Start presenting to display the poll results on this slide.

# *Open Forum Discussion Topic Options*

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- [Funding Opportunities](#)
- [Annual Water Supply and Demand Assessment](#)
- [CA Water Watch web portal overview](#)

# *Drought Funding Opportunities*

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Spring 2022 Update

# *WaterSMART Drought Resiliency - Federal*

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- Funds projects that build resiliency to drought by increasing reliability of water supplies, improving water management, and providing benefits for fish and wildlife
- Needs to be supported by a drought planning effort
- Group 1: Up to \$500K completed in 2 years; Group 2: Up to \$2M completed in 3 years; Group 3: Up to \$5M completed in 3 years
- Cost match = 50%
- Due June 15, 2022



# *WaterSMART Small-Scale- Federal*

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- Funds small on-the-ground projects that conserve, better manage, or use water more efficiently
- Up to \$100K grant available per project; total budget less than \$225K
- Cost match = 50%
- Due April 28, 2022



# *WaterSMART WEEG - Federal*

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- Water and Energy Efficiency Funding Opportunity
- Projects that result in quantifiable water savings, renewable energy components, broader sustainability benefits
- Up to \$2M to be completed in 3 years
- Cost match = 50%
- Anticipated Spring 2022

Funding announcement not released: Details subject to change



# *Environmental Water Resources - Federal*

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- Projects focused on environmental benefits that developed as part of a collaborative process to carry out increases in water reliability
  - Quantifiable water savings
  - Increase water supply reliability for ecological values
  - Developed in a collaborative process
  - Component of an established water reliability strategy
- Up to \$2M to be completed in 3 years
- Cost match = 25%
- Anticipated Fall 2022

Funding announcement not released: Details subject to change



# US EDA Public Works and Economic Adjustment Assistance

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- Provide strategic investments to support economic development, foster job creation, and attract private investment in economically distressed areas
- Pre-application call with regional representative is recommended
- Public Works: \$600K-\$3M; Economic Adjustment Assistance: \$150K-\$1M
- Cost match = 20%
- Implementation of construction 12-48 months
- No submission dates; ongoing basis



# *Annual Water Supply and Demand Assessment*

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# *Annual Water Supply and Demand Assessment (AWSDA)*

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- New report defined in each agency's adopted Water Shortage Contingency Report (prior to July 2021)
- Due to Executive Order N-7-22, preliminary assessment is due June 1, 2022



# ***AWSDA Reporting Tables***

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- Demands (Table 2)– DWR’s suggestion procedure is to use the past fiscal year’s actual demands (split by treated and untreated). They ask for monthly, but if you do not wish to provide monthly, put your annual data into the June column
- Supplies (Table 3) – DWR’s suggestion procedure is to use the single dry year supply estimate provided in your UWMPs, unless you have more accurate supply reductions available for the next fiscal year. They ask for monthly, but if you do not wish to provide monthly, put your annual data into the June column
- If you have planned supply augmentation or demand reduction actions, place the estimated values into the Tables 4P & 4NP and then provide more details in the Actions area (Table 5)

# *CA Water Watch Web Portal Overview*

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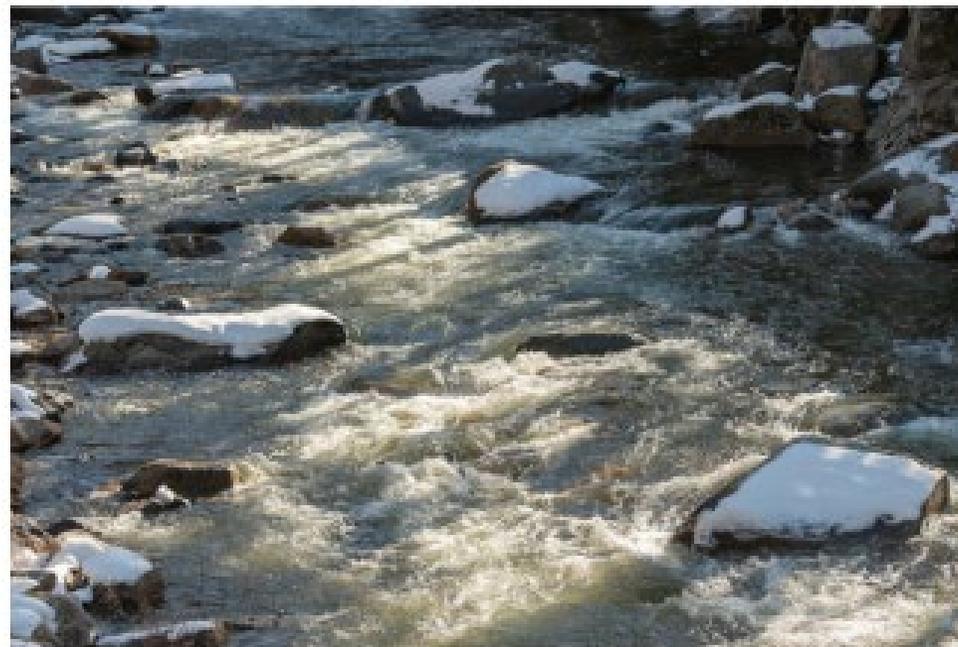
# California Water Watch – Landing Page

## Track Latest Water Conditions

Welcome to California Water Watch! This site offers the most current local and statewide water conditions down to your region and even your neighborhood. This information is updated dynamically from a [variety of data sources](#). Everyone is welcome to research, learn, and stay informed about California's most precious resource -- water.

[Understanding Our Current Drought](#)

[Read Latest State Hydrology Update](#)



## Snapshot of California Hydroclimate and Water Supply Conditions

California has a Mediterranean climate characterized by warm, dry summers and mild, wet winters. The climate can vary depending on the geographical region where you live, and climate change is increasing this variability.

The maps below show current statewide hydroclimate and water supply conditions, including precipitation, temperature, reservoir storage, groundwater conditions, snowpack, streamflow, soil moisture and vegetation conditions.

To view the conditions in your local area, enter your address or zip code in the location finder.

## View Watershed Conditions

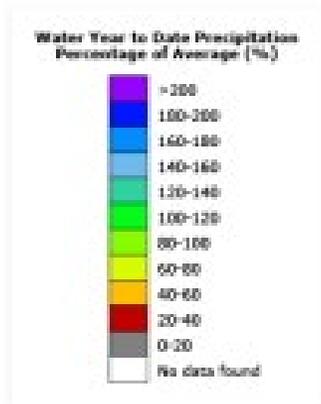
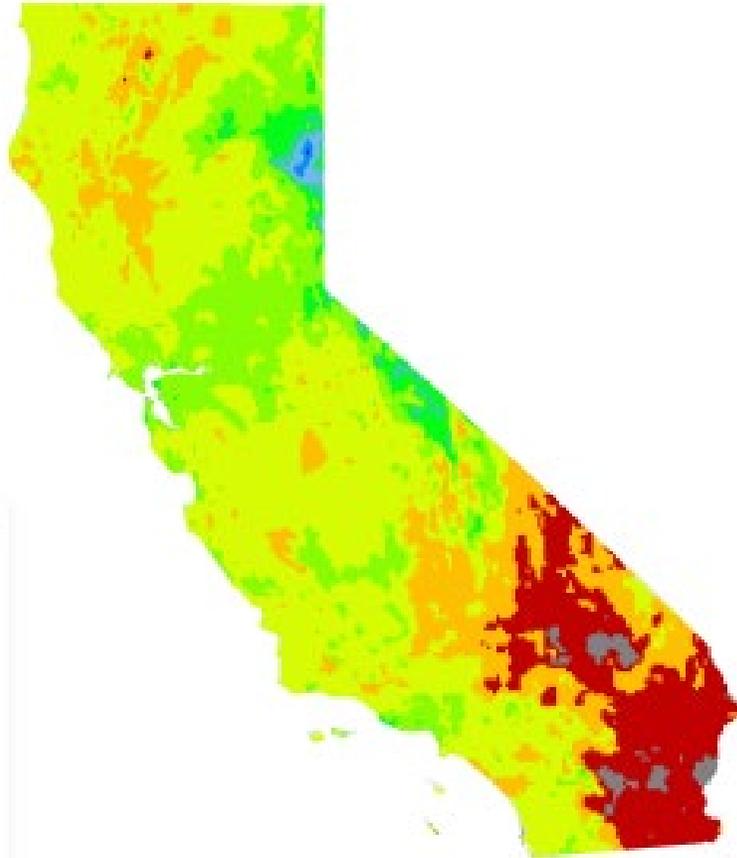
### Search by Address or Zip Code

### Search on Map

[View](#)



# California Water Watch – Landing Page



## Precipitation as of 04/18/2022

California's annual precipitation can vary greatly from year to year and region to region. The map of California shows how this water year's precipitation compares to what has been observed historically. The chart below breaks down this same data into discrete ranges to illustrate the levels of precipitation different portions of the state are seeing relative to historical averages.

PERCENT OF AVERAGE PRECIPITATION (%)	PERCENT OF STATE (%)
0-19	1.32
20-39	12.19
40-59	15.84
60-79	49.78
80-99	17.17
100-119	2.49
120-139	0.74
140-159	0.35
160-179	0.10
180-199	0.00
>= 200	0.00



# California Water Watch – Understanding Our Current Drought

Drought conditions are not experienced uniformly across California. Water users experience drought differently, depending on the type of water supply being accessed and the user's ability to manage drought impacts.

Dry conditions can quickly lead to impacts for ranchers grazing livestock on non-irrigated rangeland or for rural residents relying on private wells for groundwater. In contrast, large urban water agencies with multiple water sources have the potential to weather multiple dry years. As drought conditions persist, eventually all water users experience impacts.

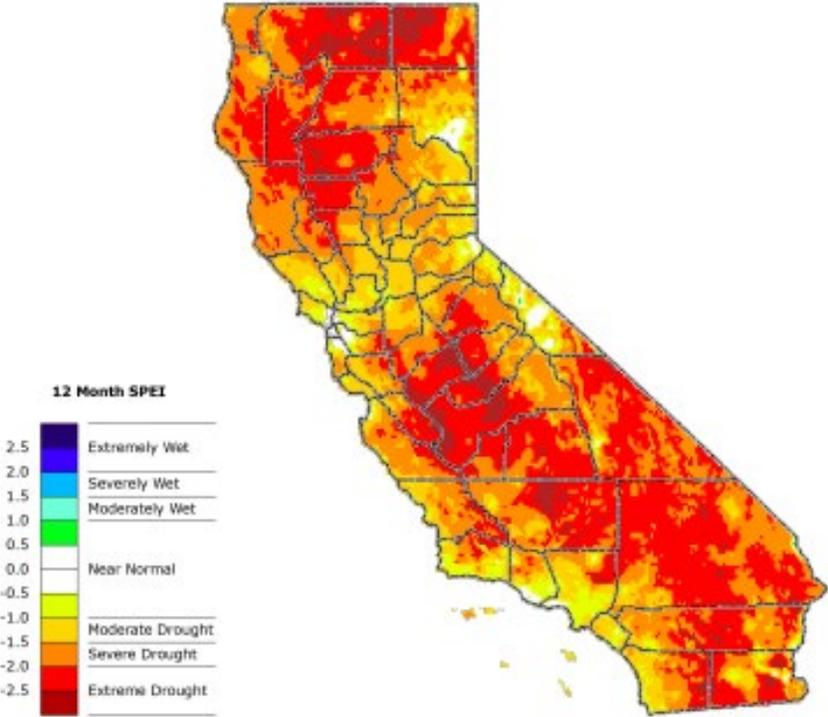
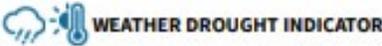
Risk of drought impacts occur when precipitation is below normal levels. Risk also increases when dry conditions combine with above-average temperatures, as has been observed in California's recent droughts.

Maps on this page show three different indicators that provide a measure of the severity of the current drought in California. The use of multiple drought indicators is preferred given the diversity of California's water users. The three indicators displayed here include:

-  "Weather drought indicator" – Indicator represents a measure of atmospheric moisture supply and demand over time by integrating the effects of precipitation, temperature, and evapotranspiration.
-  "Runoff drought indicators" – Indicators represent the effects of changes in atmospheric conditions on a watershed's snowpack and runoff.
-  "Water supply drought indicators" – Indicators represent the amount of surface and groundwater storage available.



# California Water Watch - Understanding Our Current Drought



## Weather Drought Indicator

California is experiencing extreme dryness. Low precipitation combined with higher temperature is resulting in dry conditions throughout the state. This map integrates measures of precipitation, air temperature, and evapotranspiration, key factors in California's water cycle.



**Note:** Map shows the Standard Precipitation-Evapotranspiration Index (SPEI).  
Source: Western Regional Climate Center  
(<https://wrcc.dri.edu/wwdt/index.php?folder=spei12>)



# California Hydrology Update – April 14, 2022

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The California Hydrology Update is a regular summary of current weather conditions in the State of California and serves as a supplement to the data on the California Water Watch website. It is produced by the California State Climatologist, Mike Anderson, and the hydrology and forecasting team at the California Department of Water Resources. For the latest on drought conditions, visit [drought.ca.gov](https://drought.ca.gov). For tips and resources for conserving water, please visit [saveourwater.com](https://saveourwater.com).

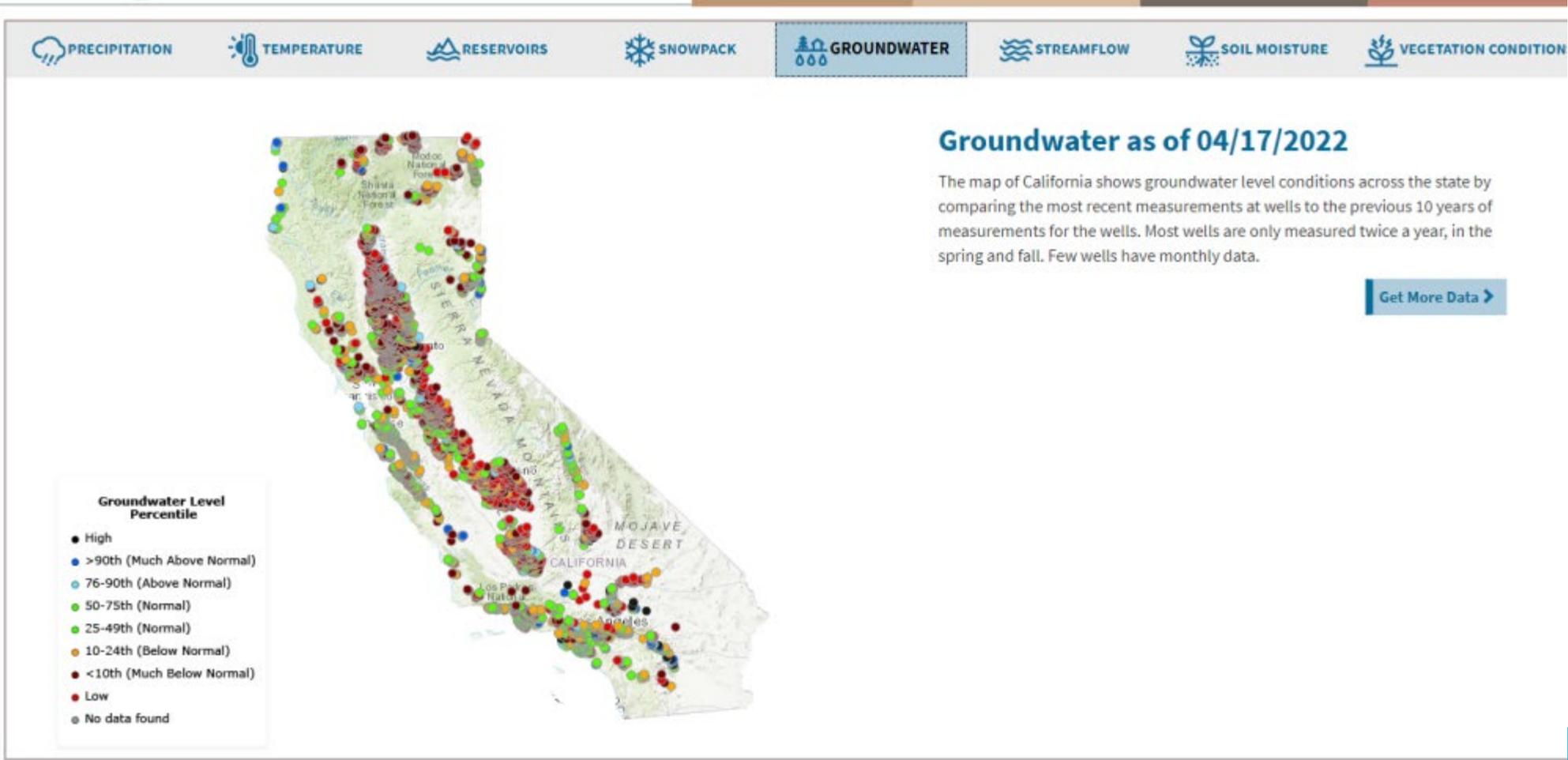
- **Precipitation** To date statewide precipitation for the current water year (October 1, 2021- April 15, 2022), is 70% of average. A series of storms the second week of April brought much needed moisture to Northern California, augmenting the below-average snowmelt and keeping the landscape from drying out as quickly as spring moves toward summer. However, the precipitation was not statewide, and this amount of moisture will not offset the record dry conditions experienced the first three months of 2022.
- **Temperature** A couple of early-season heat waves led to many new high-temperature records across California. Fortunately, the transition month of April also includes the passing weather systems that bring cooler temperatures. In some places like Redding new low-temperature records have been set with clear skies overnight. The cooler days between the heat really help to slow down the drying out of the landscape and offer some respite to urban communities. This pattern is expected to continue through the rest of April.



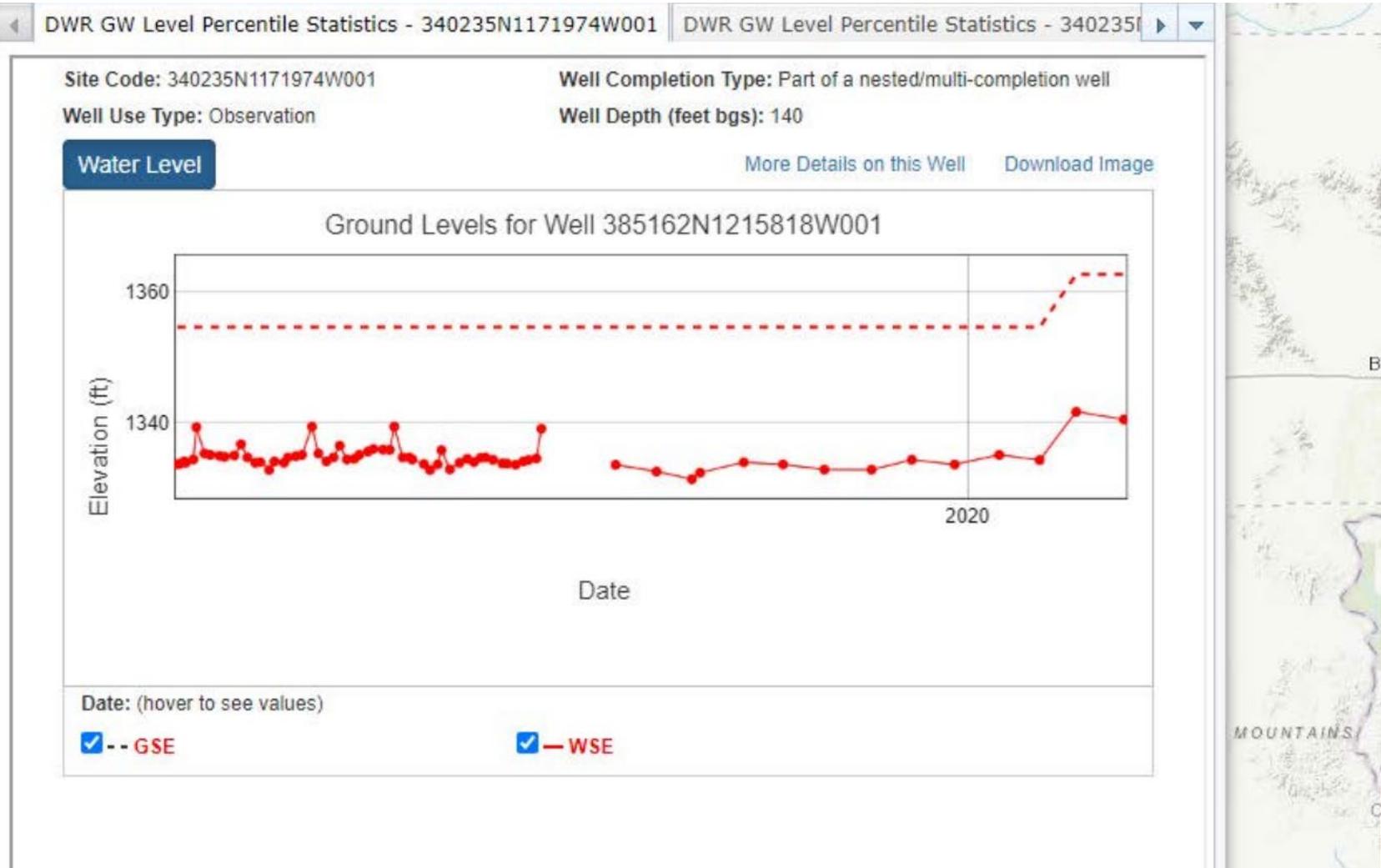
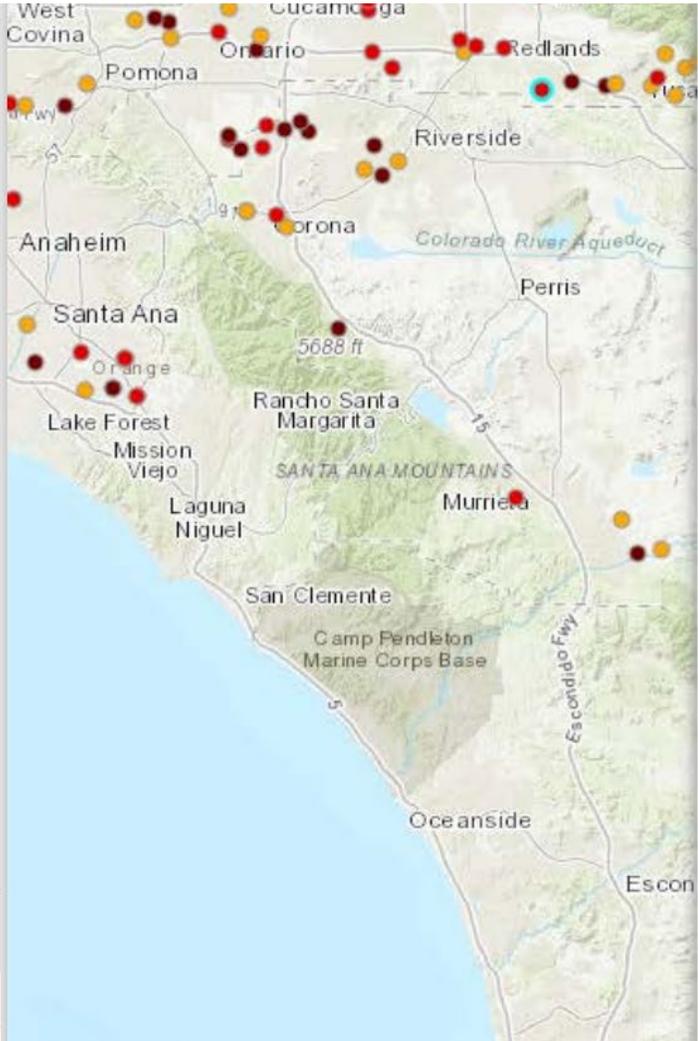
- **Reservoirs** Statewide reservoir storage has increased at a slower pace than normal but has been helped by the recent storms and associated runoff. While it will augment the snowmelt, it will not make up for the below average snowpack and dry conditions from earlier in the year. At the end of March, the statewide storage is at 69% of average storage for this time of year which is consistent with other year 3 droughts at this point in the water year.
- **Snowpack** The peak of the statewide snowpack as measured by the automated sensors appear to have happened on March 8 with about 57% of a seasonal snowpack which equates to 16.1 inches of snow water equivalent or SWE. The April 1 snowpack ended up being in the bottom 10 in the period of record due to the amount of snow melting in March with the lack of storms, clear skies and warmer than average temperatures. The current storms will slow the pace of melt and may add an inch or two which will help the spring runoff but will still be well below average. It is better than the record dry and warm conditions of last year.
- **Streamflow and Groundwater** are also both well below average across much of the state. The start of the calendar year has been much drier than average which intensified drought conditions. Early snowmelt is pushing some Sierra Nevada rivers above values normally seen this time of year, but many areas have already peaked and are now beginning to recede. The recent storms will help sustain flows where precipitation fell. As we head into May and the start of the dry season, the flows will drop off rapidly given the third year of drought and the heat of summer beginning. Groundwater levels will hit their spring peak and then begin to drop as water use picks up and surface supplies are unable to meet demands. Additional heat events and any further spring precipitation will determine how quickly the landscape dries out. The landscape will then continue to dry until the first rains of water year 2023 fall.



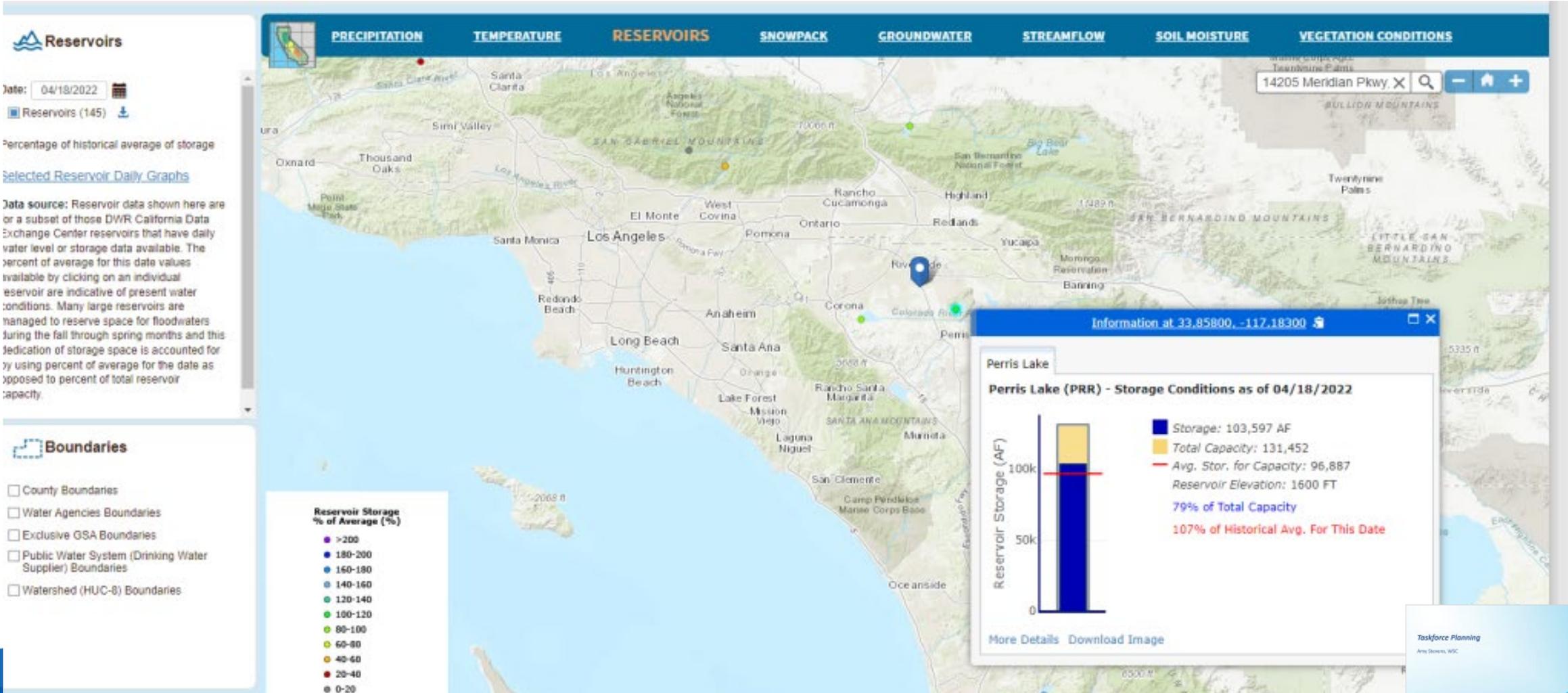
# California Water Watch - Groundwater



# California Water Watch – Groundwater Zoom In



# California Water Watch - Reservoirs



# *Taskforce Planning*

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Amy Stevens, WSC

slido

Rank how beneficial you found each section of the mock task force meeting. (Most beneficial to least)

 Start presenting to display the poll results on this slide.

# *Draft Future Meeting Agenda Outline*

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- Guest Presentation/Update
- Grant/Funding Opportunities and Current Applications
- WSCP Updates
- Communication Update
- Open Forum
- Close



## *Questions to Consider*

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1. What would make this beneficial to you and your agency?
2. Is there anything else we should be striving for to accomplish our goals?
3. What discussions should this group be having?
4. What information would be helpful?
5. Are there any guests that you would like to hear from on a regular basis?
6. How often do we want to meet? Does it align with the drought triggers?



# How will we recognize the next drought in its early stages?

## Drought Task Force Meetings

Provide a forum for members to review data, share updates, and coordinate drought response

Convened based on regional conditions

Regional Drought Stage	Meeting Frequency	Triggers				
		Drought Monitor (DCP Region)	MWD WSAP/Similar Action	Agencies in Declared Shortage*	Statewide Drought Proclamation	Riverside County Drought Proclamation
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Alert	Monthly	Exceptional Drought	Levels 3 thru 5	6 or more	Drought	Drought
Emergency	Weekly	Exceptional Drought	Levels 6 and 10	10 or more	Drought	Drought

\*Not including state mandated shortage



# *Next Steps*

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Amy Stevens, WSC

# Next Steps

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## DCP

- 5/11 – Comments due on the Draft DCP from the Task Force
- Mid-June – incorporate Task Force comments into the Final DCP for adoption by Western's Board

## Task Force Meetings

- Planning Committee Volunteers? Contact Melissa: [mmatlock@wmwd.com](mailto:mmatlock@wmwd.com)
- Watch your emails for upcoming calendar invite and agenda



