



Building Industry Association
Southern California Water Conference

Water Reliability & Metropolitan's One Water Initiative

August 12, 2022

The Role of Metropolitan for Southern California.

REGIONAL PROVIDER



INNOVATION



VISION



SAFE & RELIABLE



Record-Breaking Drought

3

**Years of
Drought**

3

**Driest
Years**
*projected

3

**Driest
Months**
Jan-March 2022





Historical Ranking of Consecutive 3-Year Precipitation

Northern
California

WY2020-2022
is driest 3
consecutive
Years on
Record

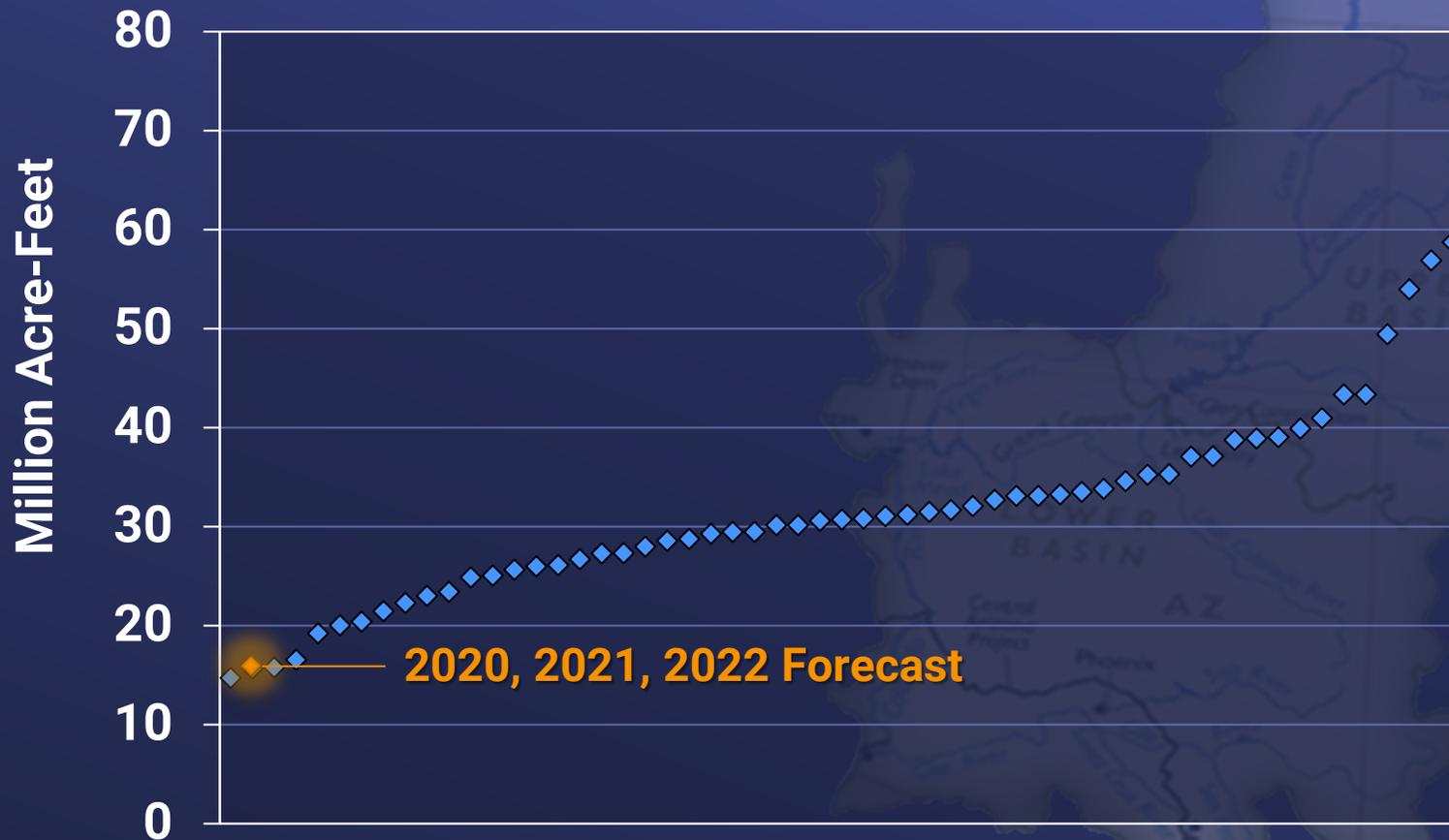




Historical Ranking of Consecutive 3-Year Inflow to Lake Powell

Upper
Colorado
River Basin

WY 2020 -2022
Projected to be
the Second
Lowest on
Record

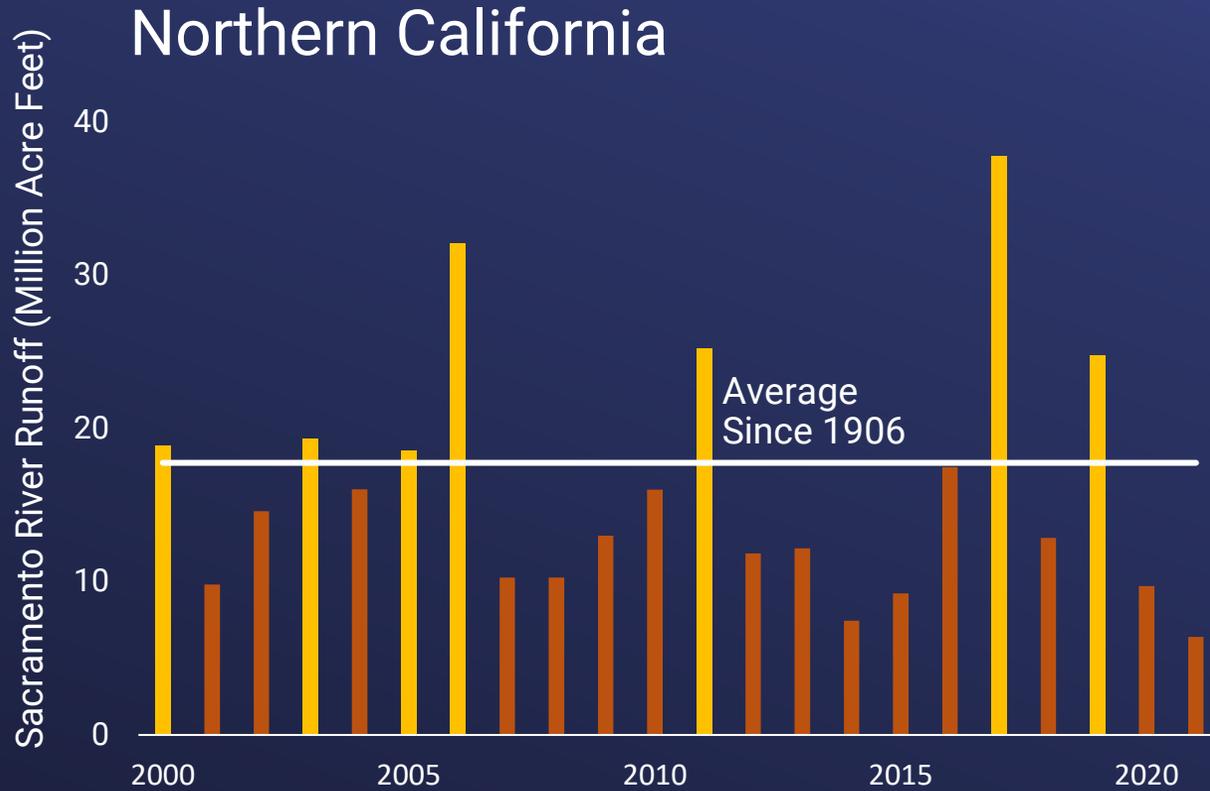


A Truly
Historic
Drought.



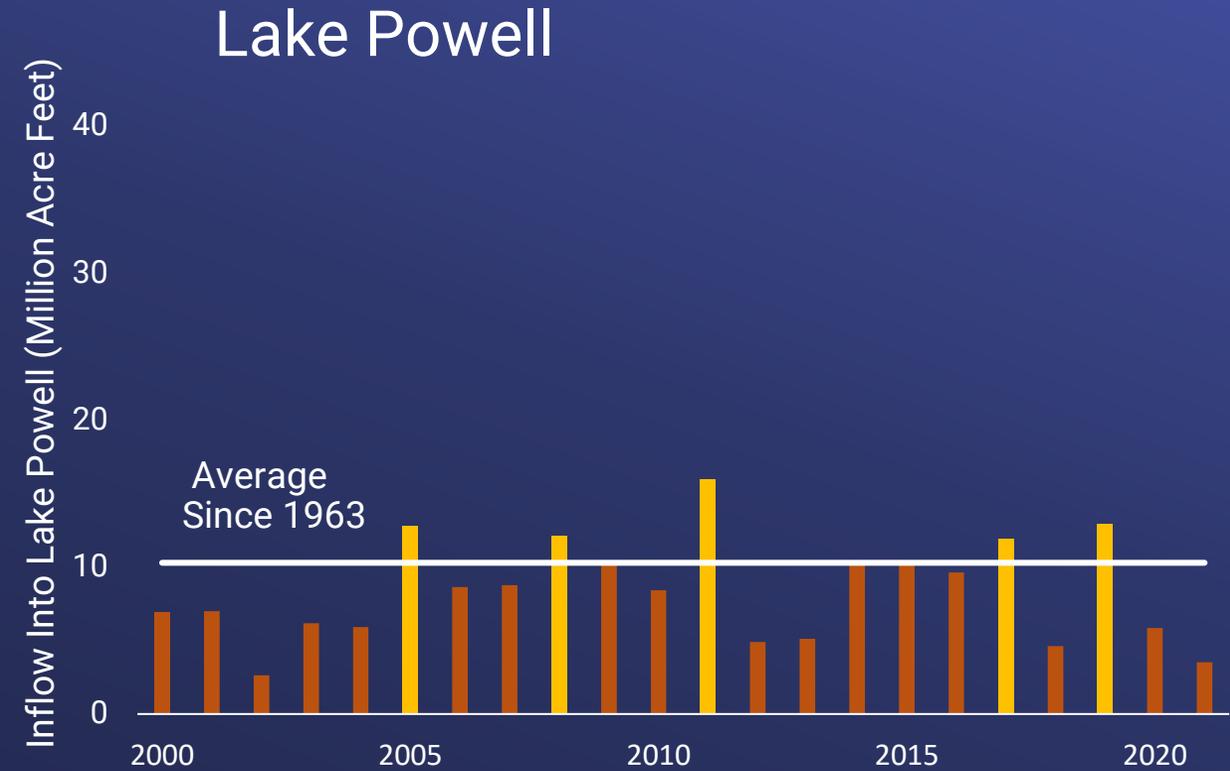
First Ever Shortage Declared on the Colorado River

The West's Two-Decade Long Megadrought



~20 million AF

Central Valley Project + State Water Project
Combined Storage Capacity

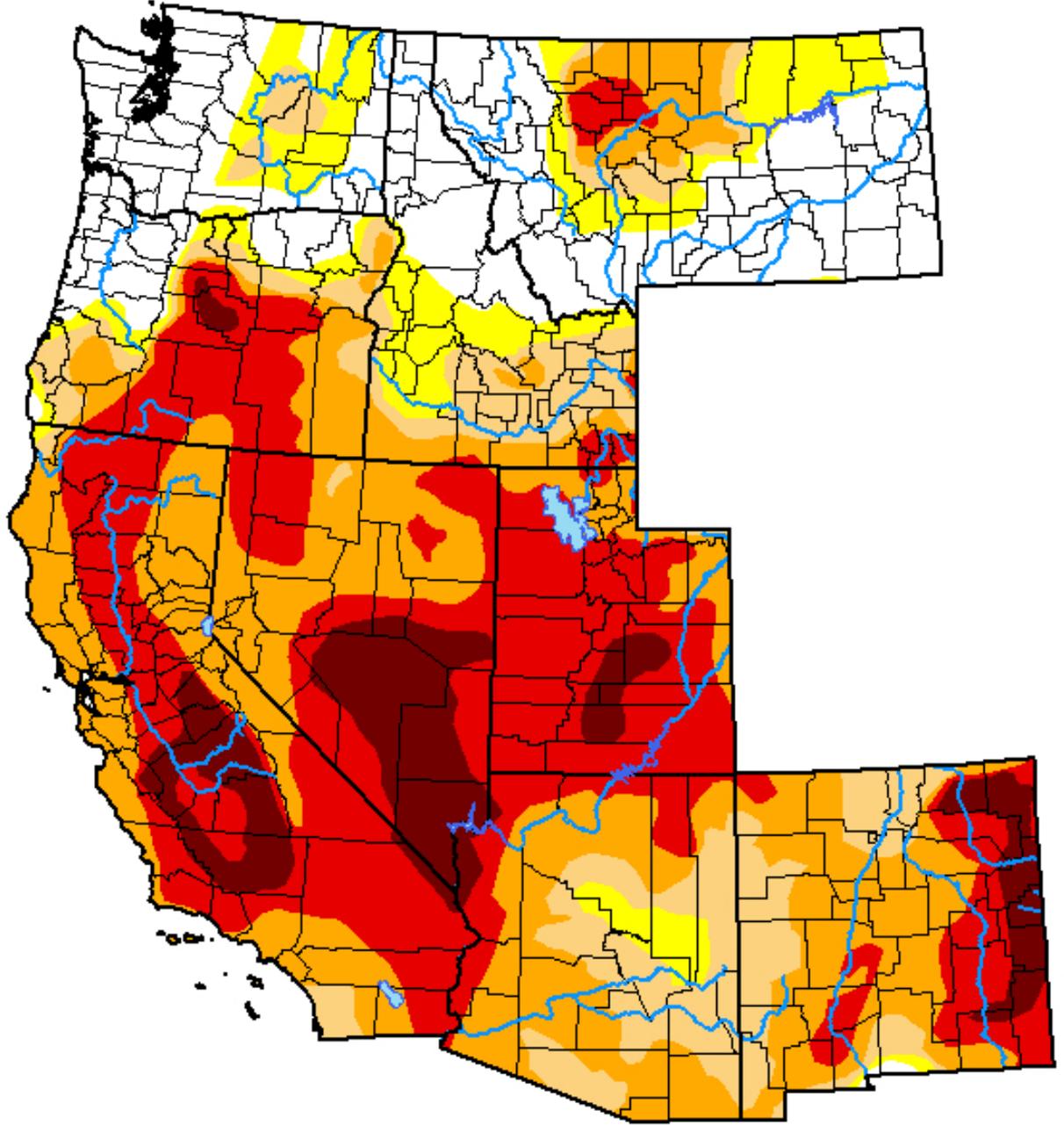


~60 million AF

Upper Basin + Lower Basin
Combined Storage Capacity

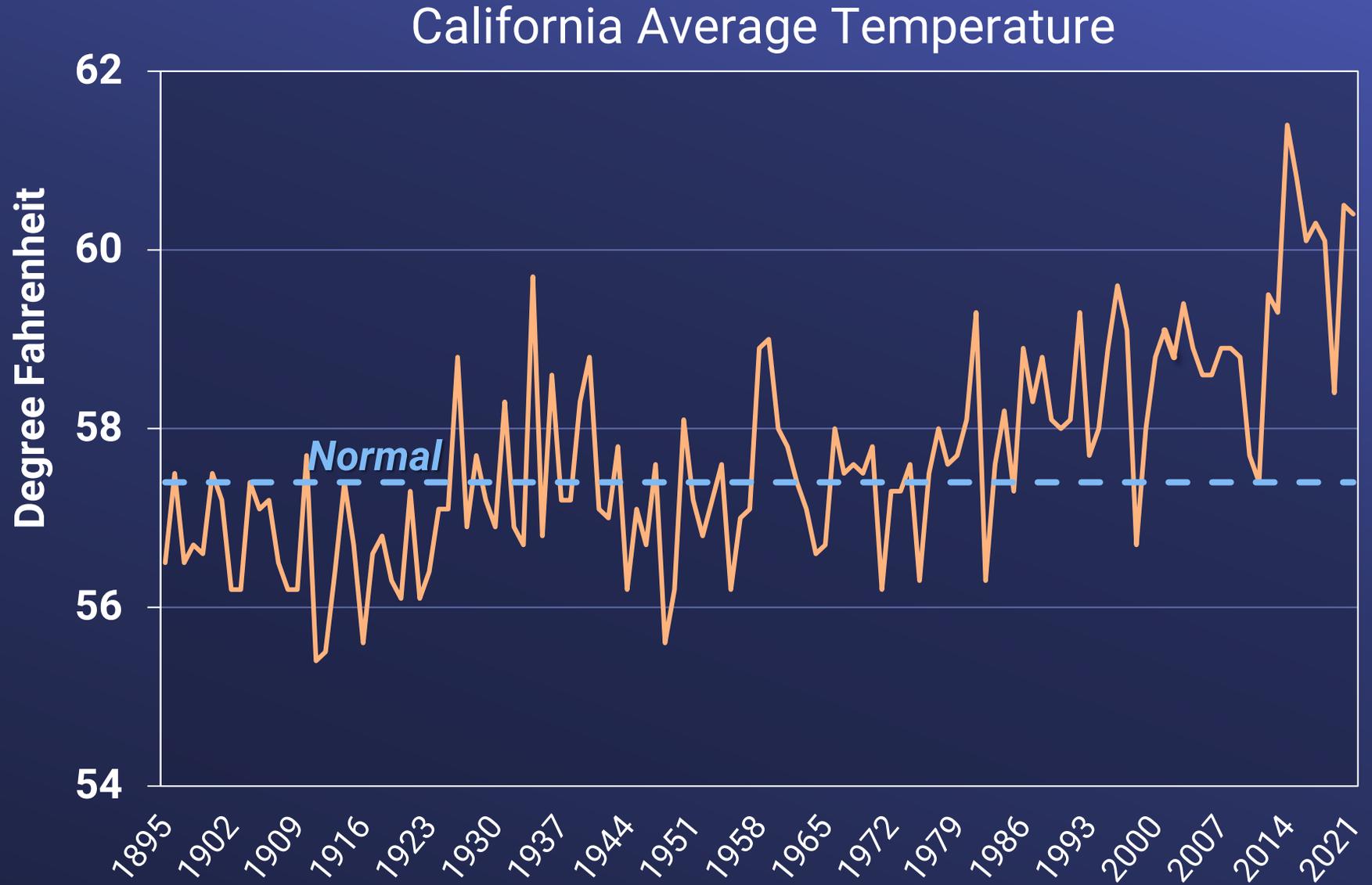
US Drought Monitor, West

July 26, 2022

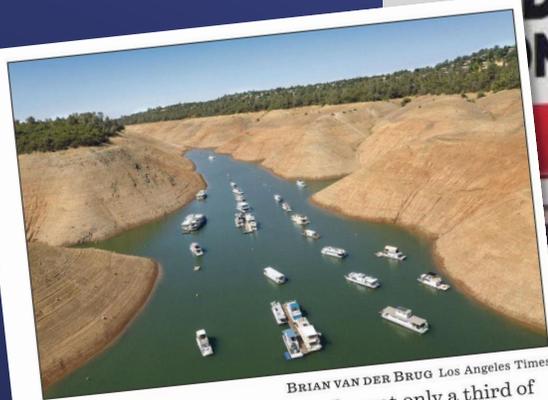


California is Getting Warmer

Warming trend since
the turn of the century



Drought Impacts.



BRIAN VAN DER BRUG LOS ANGELES TIMES

LAKE OROVILLE, shown in June at only a third of capacity, is the State Water Project's largest reservoir. After a very wet December, rain has been scarce.

State slashes water allotment

By HAYLEY SMITH

Drained reservoirs. Dwindling snowpack. Bone-dry soils.

After a record dry start to 2022, California water officials announced Friday that they were cutting State Water Project allocations from 15% to 5%, and warned residents to brace for a third year of drought.

The news came only

months after a rainy December offered temporary drought relief and prompted officials to announce a modest increase in previously allocated supplies. But after the driest January and February on record — and a March on track to follow suit — officials said they had to make reductions.

“We are experiencing climate change whiplash in real time with extreme

[See Water, B5]



California threatens 'mandatory water restrictions' if people don't cut back

Governor's warning comes amid drought after driest January-March period in at least a century



The New York Times

Drought in U.S. Is Expected to Persist, and Spread, Through the Spring

Winter precipitation amounts were not enough to significantly improve conditions in much of the country, government scientists said.



a water recycling facility in Carson,

restrictions if residents don't use less water during the hotter summer months

statewide mandates in a meeting with local water agencies, including those that supply water to the San Francisco Bay Area, according to his spokesman. He said issuing sweeping mandatory water restrictions is an approach that gives local water providers more control in the cities and towns they supply.

As of May 3, 2022

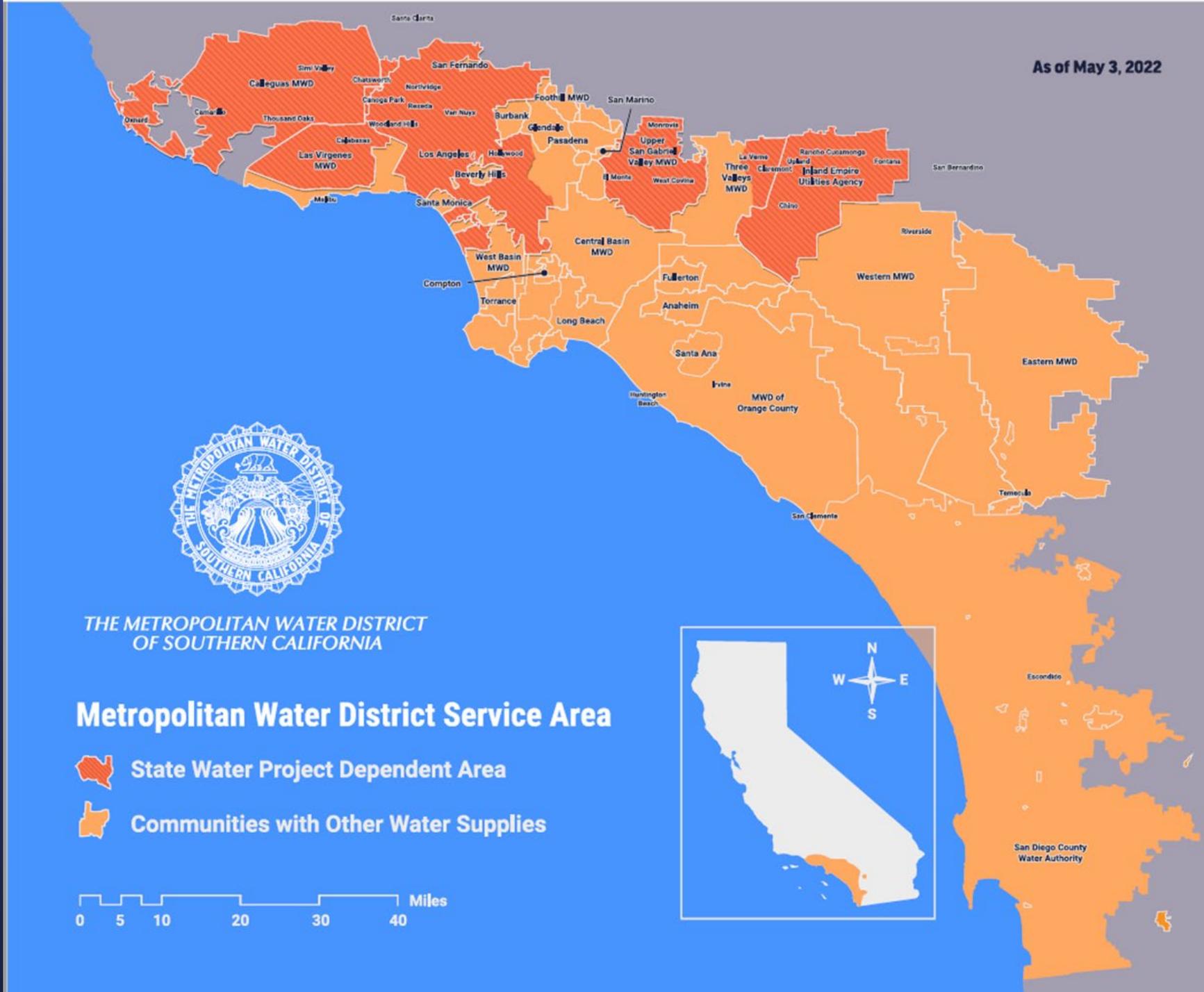
Water Shortage Emergency SWP Dependent Area



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Metropolitan Water District Service Area

-  State Water Project Dependent Area
-  Communities with Other Water Supplies



Addressing Drought.

Conditions are
extreme &
worsening

- In **Aug 2021** , Metropolitan moved to a regional Water Supply Alert status to **raise awareness of drought conditions**
- In **Nov 2021** , Metropolitan took drought emergency action for **the SWP-dependent areas**
- In **Jan 2022** , statewide emergency water conservation actions to **prevent wasteful water use went into effect**
- In **Mar 2022** , Governor Newsom issued an Executive Order to **support 20-30 percent more water conservation by Californians**
- In **Apr 2022** , Metropolitan moved to a regional **Emergency Water Conservation Program**
- In **May 2022** , the State Water Board approved a regulation requiring urban water supplies to implement **Level 2 demand reduction actions.**

Bold Leadership is Needed



Office of the Governor of California ✓

@CAgovernor

...

Every water agency across CA needs to take more aggressive actions to communicate about the drought emergency & implement conservation measures.

Californians made significant changes since the last drought but we've seen an uptick in water use. We have to make every drop count.



Long Term Solutions Are Needed



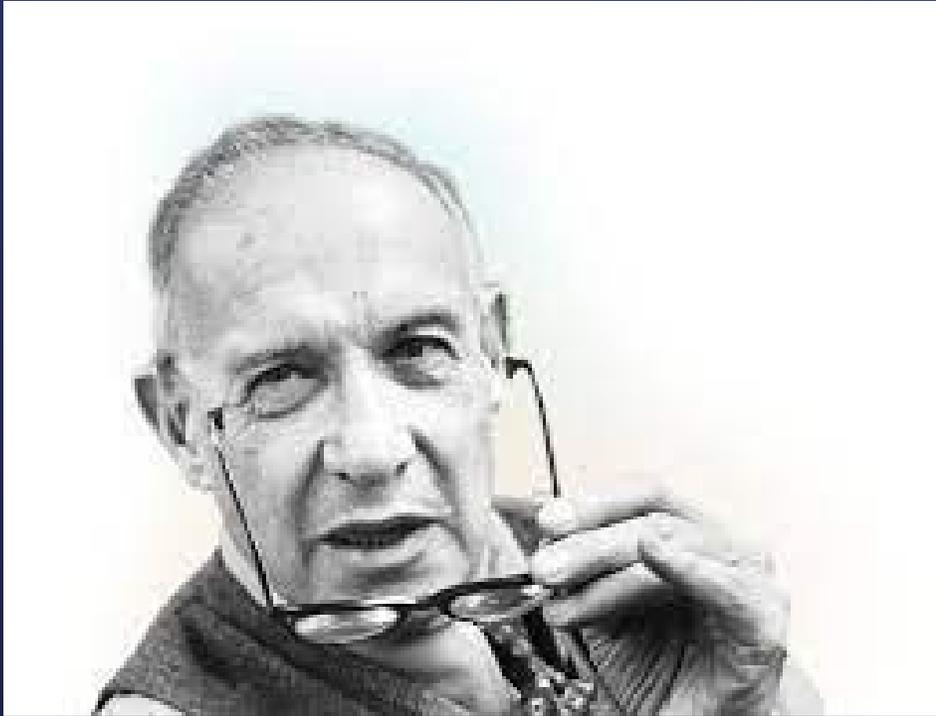
Lake Oroville



Lake Mead

This is more than drought. This is **climate change**.

The Future Requires a **One Water** Approach



“The greatest danger in times of turbulence is not the turbulence – it is to act with yesterday’s logic.”

Peter Drucker

Two
Waters
Established
in Legislation



Clean Water Act
(1972)



Safe Drinking Water
Act (1974)

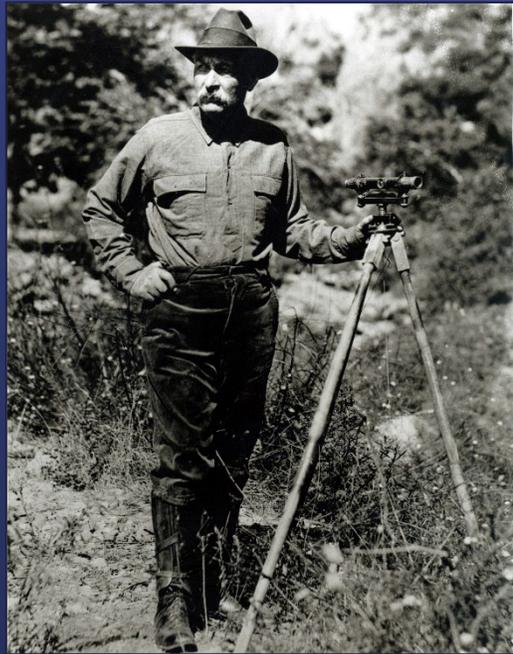
One Water
Definition.

“An integrated planning and implementation approach to managing finite water resources for long-term resilience and reliability, meeting both community & ecosystem needs.”

The Water Research Foundation

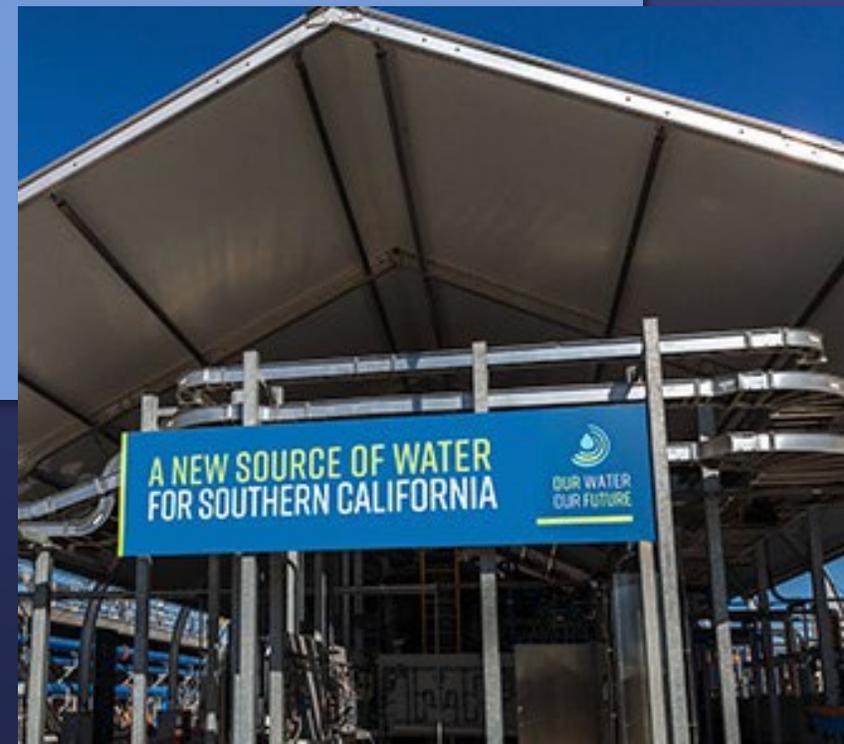


Building the Fourth Aqueduct.



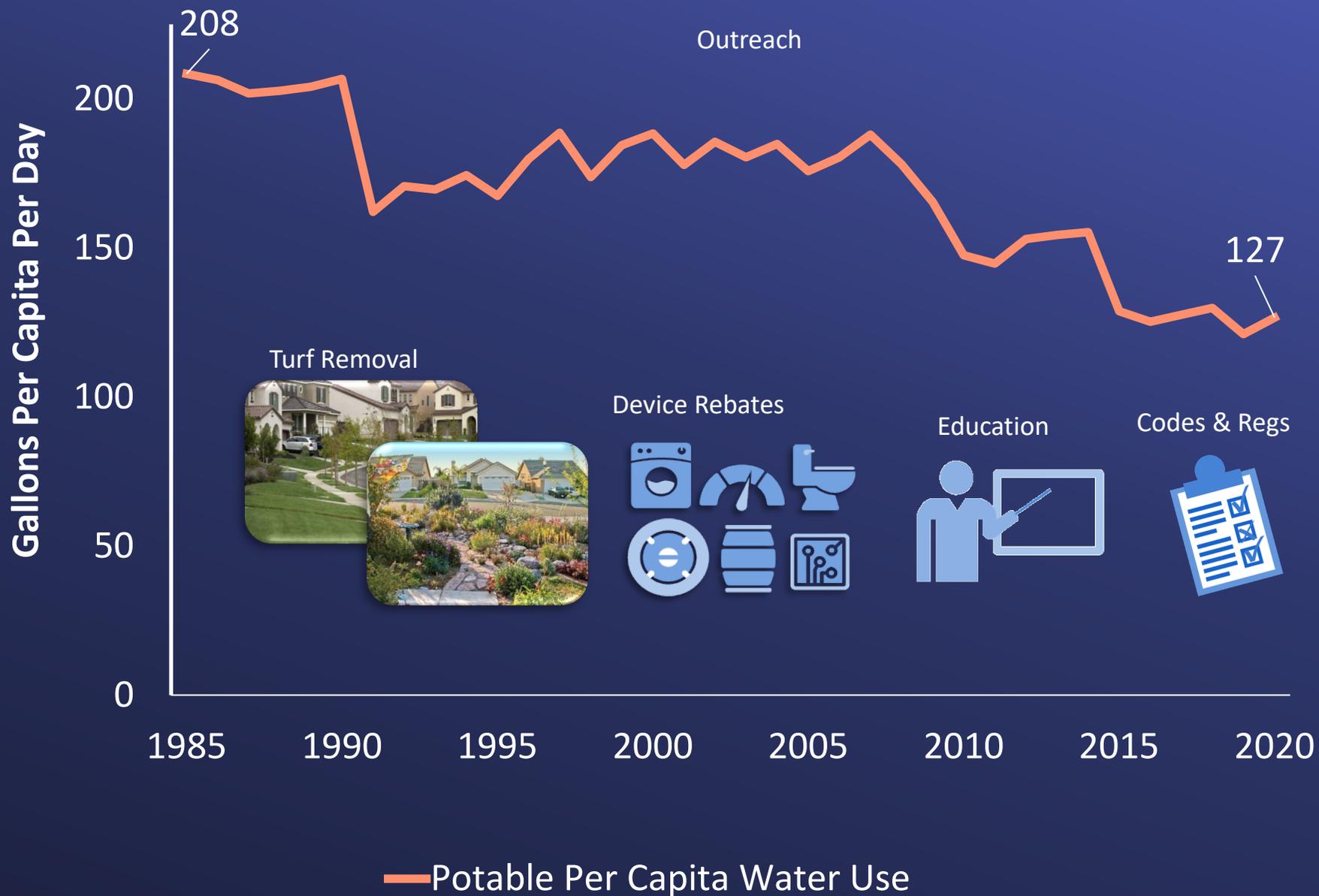


Pure Water Southern California.



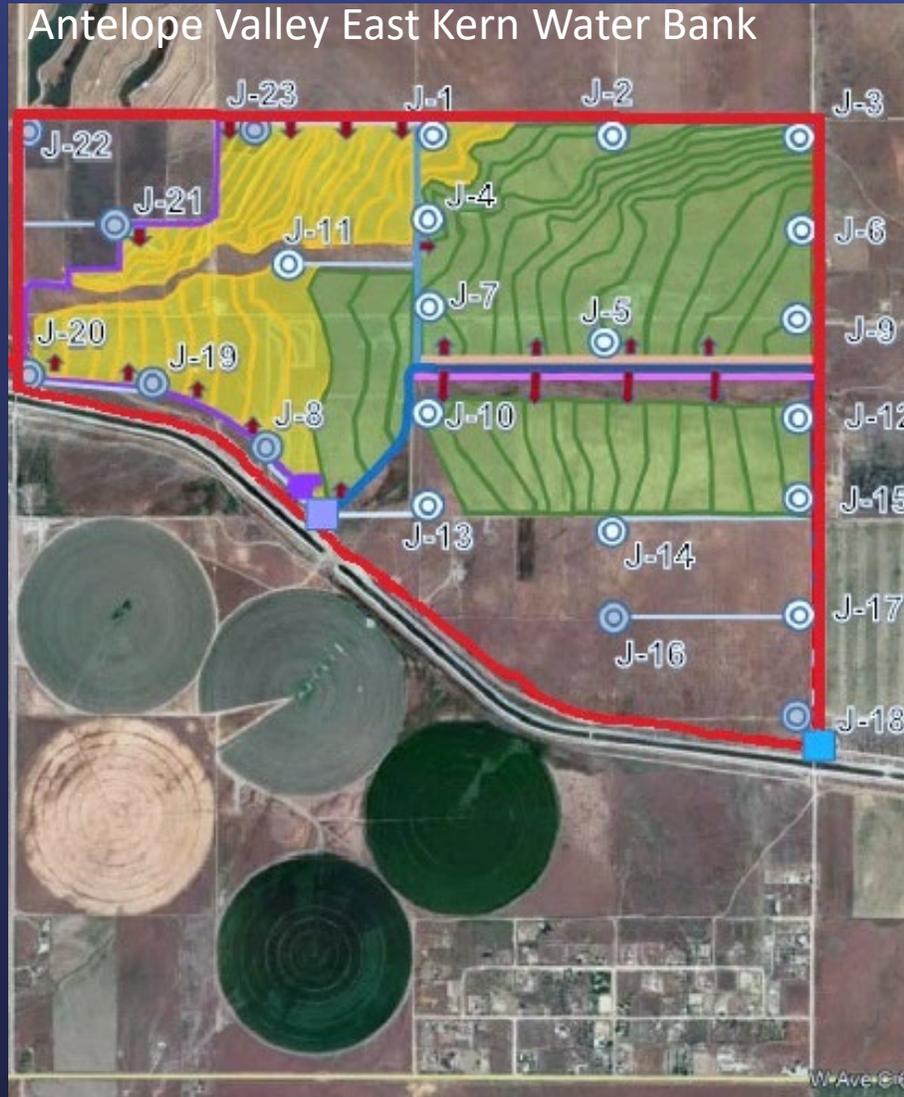


Making the
Most of
Every Drop.



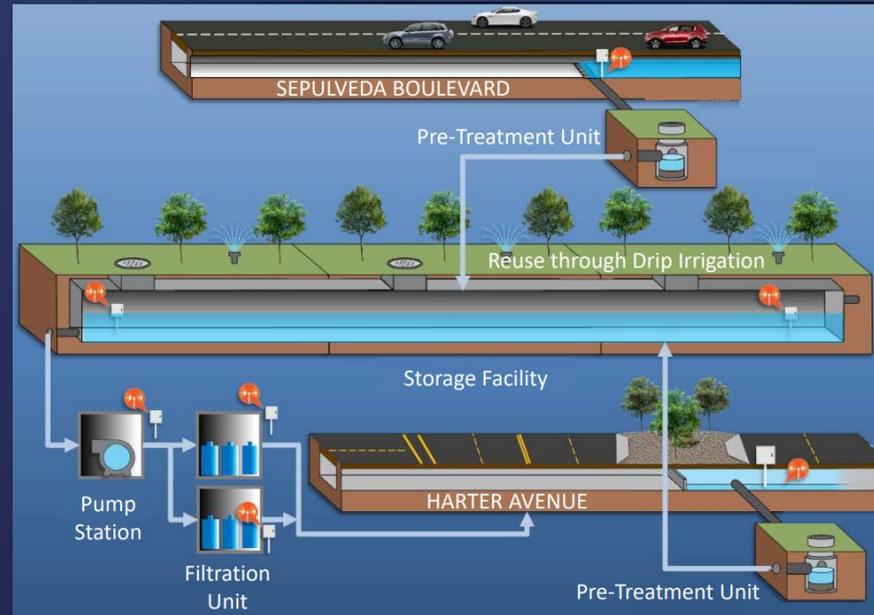


Expanding Groundwater & Surface Storage.





Capturing Stormwater.



West Basin MWD (City of Culver City)



Western MWD (Victoria Recharge Basin)



Groundwater & Seawater Desalination.



Dedication of the Eastern Perris II Desalination Facility, June 2022



Chino Basin Program.





Integration

Innovation

Inclusion



One Water

THE METROPOLITAN WATER DISTRICT
of SOUTHERN CALIFORNIA