



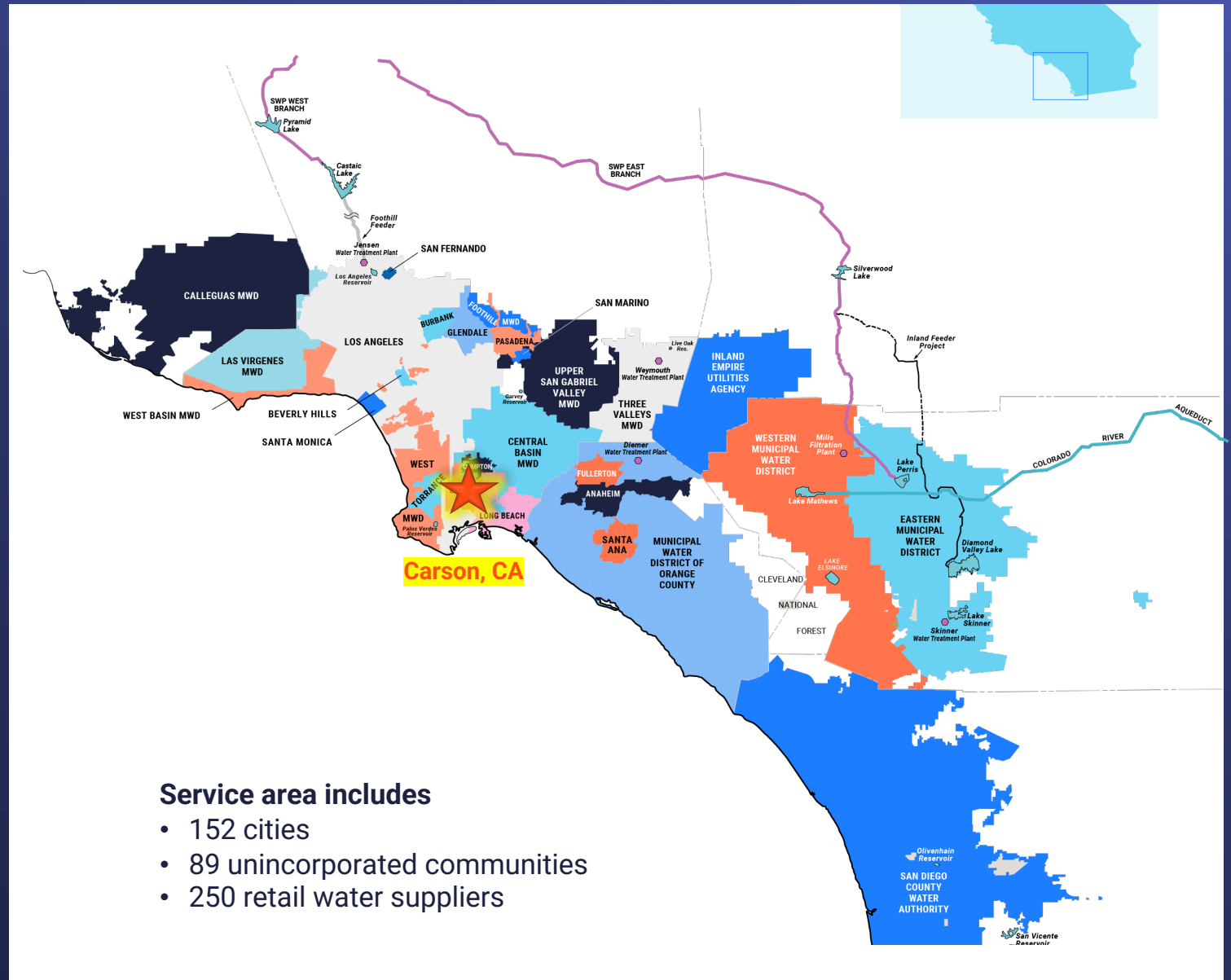
South Bay Cities Council of Governments' 23rd General Assembly

Update on Water Supply Conditions

March 23, 2023

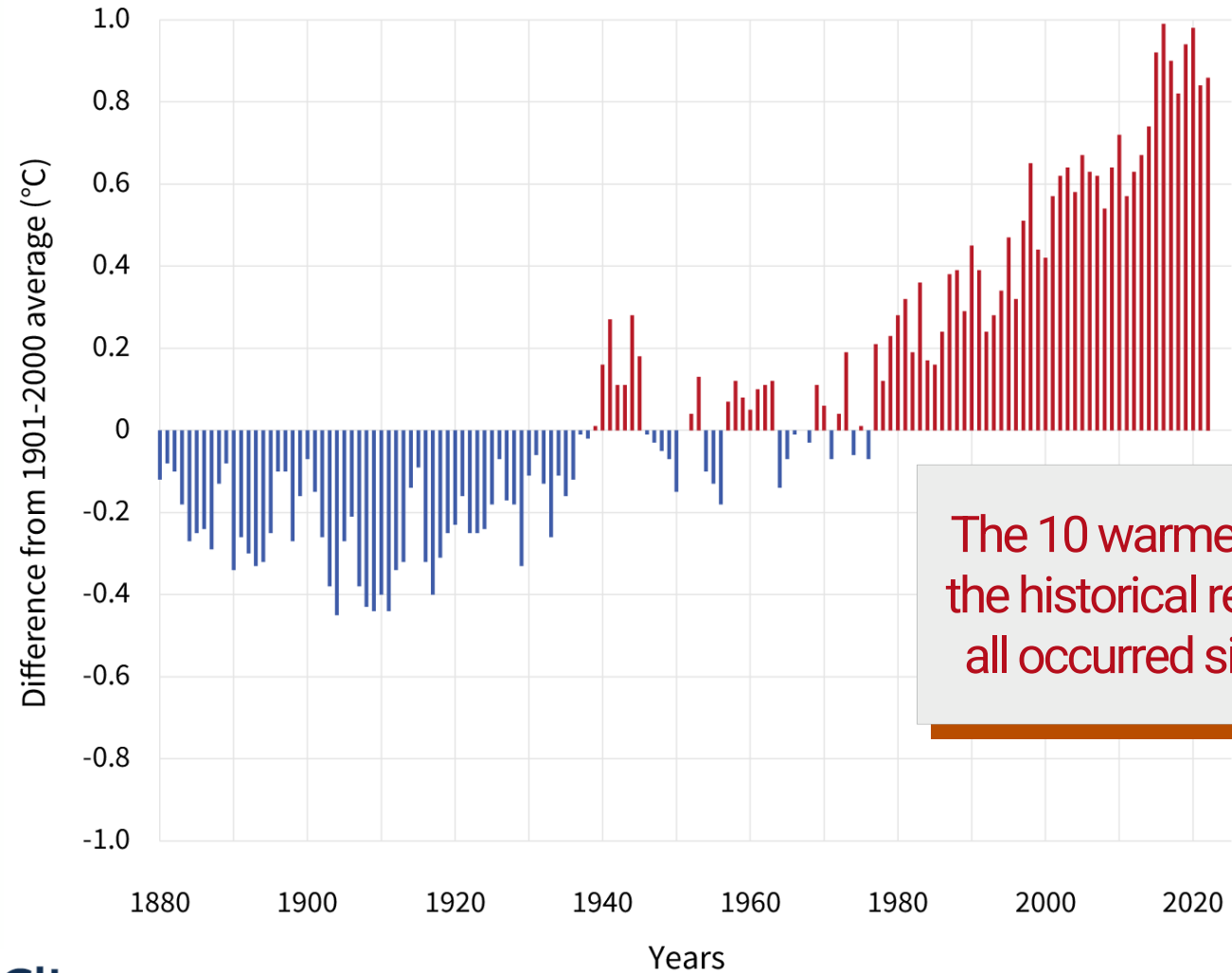
Metropolitan Water District of Southern California

- Nation's largest wholesale water provider
- Service area: 19 million people, 5,200 square miles, parts of six counties
- 26 member agencies
- Supports \$1.7 trillion regional economy (ranks 12th in the world)



Global Warming Trend on the Rise

Global Average Surface Temperature

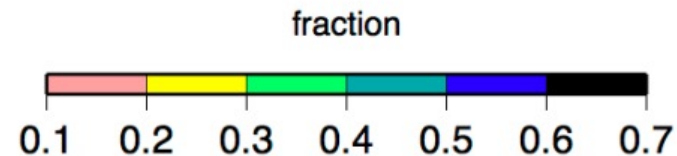
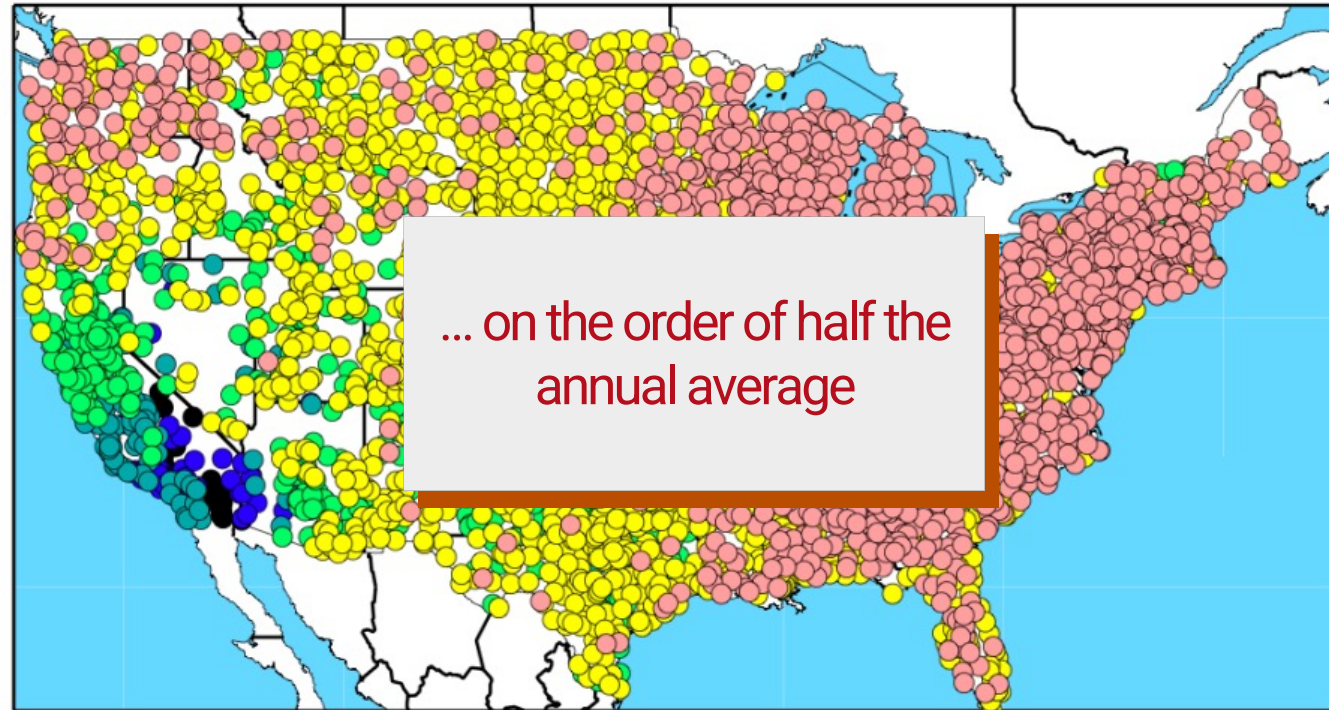


The 10 warmest years in the historical record have all occurred since 2010



California Has
the Largest
Year-To-Year
Variability in
Precipitation in
the United
States

Coefficients of Variation of Total Precipitation (Water Year 1951-2008)

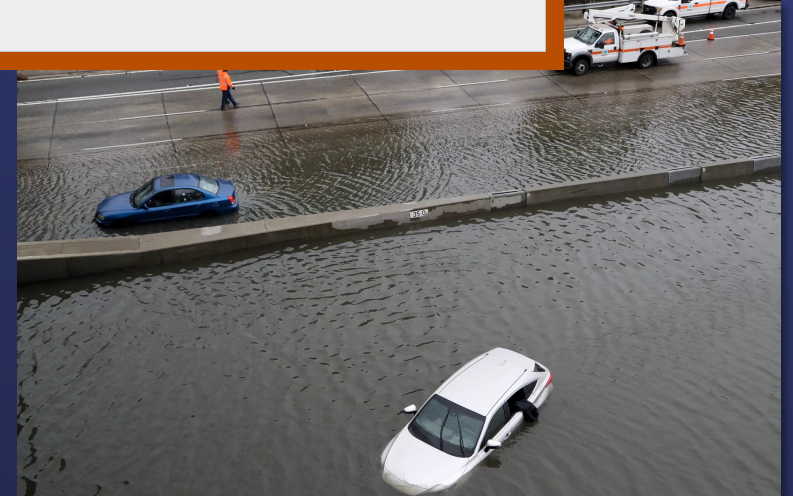


Dettinger et al. 2011

Impacts of Climate Change

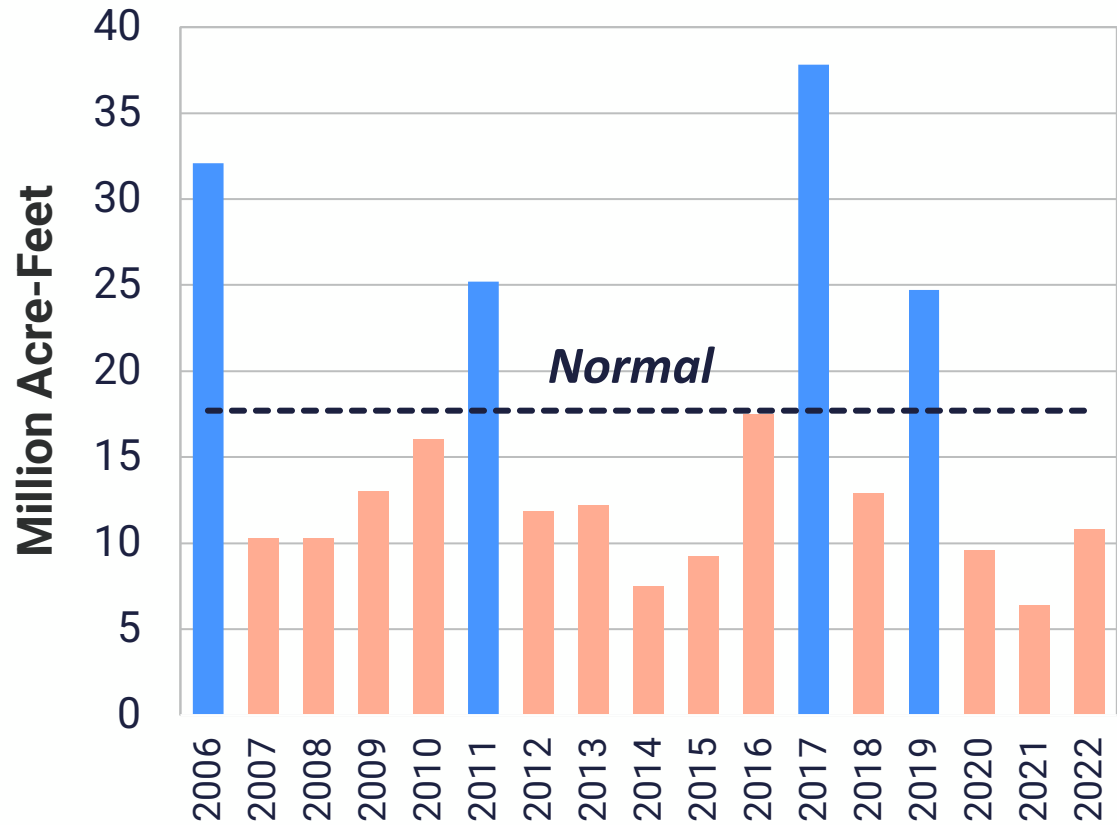


These pictures were all taken in California in the last 2.5 years

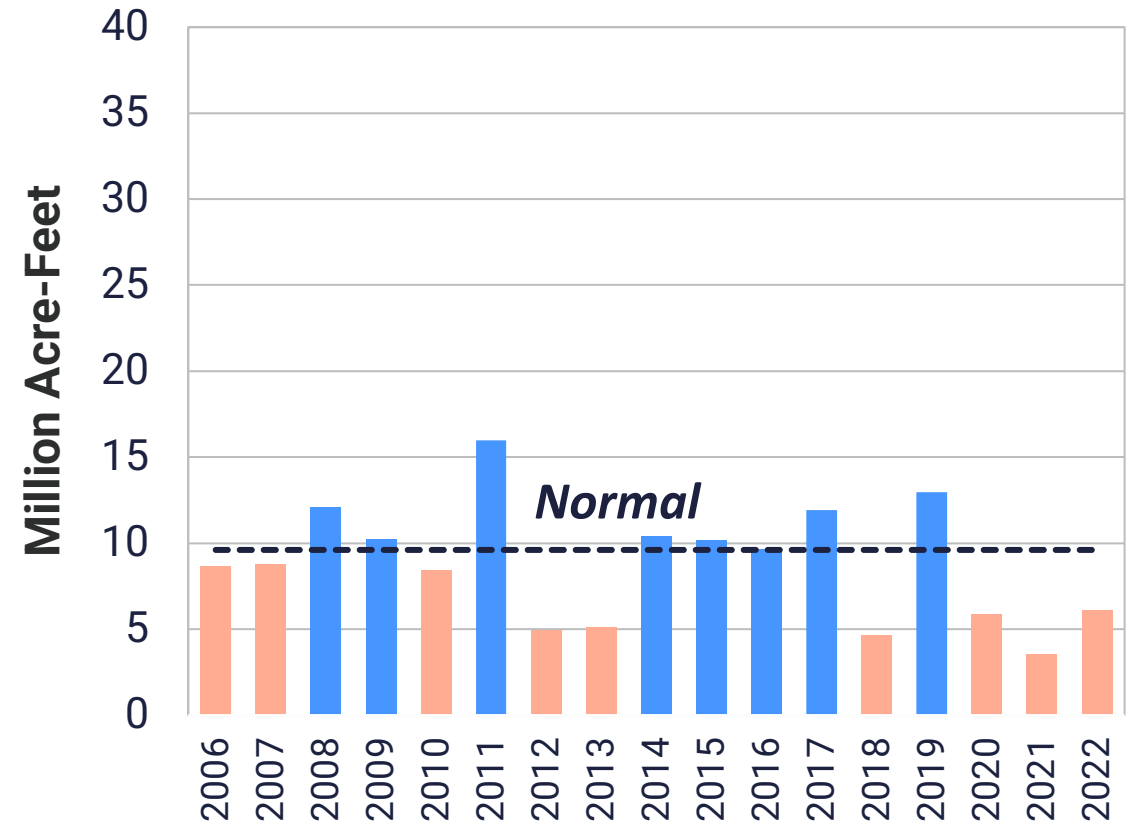


Predominately Below Average Runoff as a Result of Both Dry and Progressively Hotter Conditions

Sacramento River Runoff

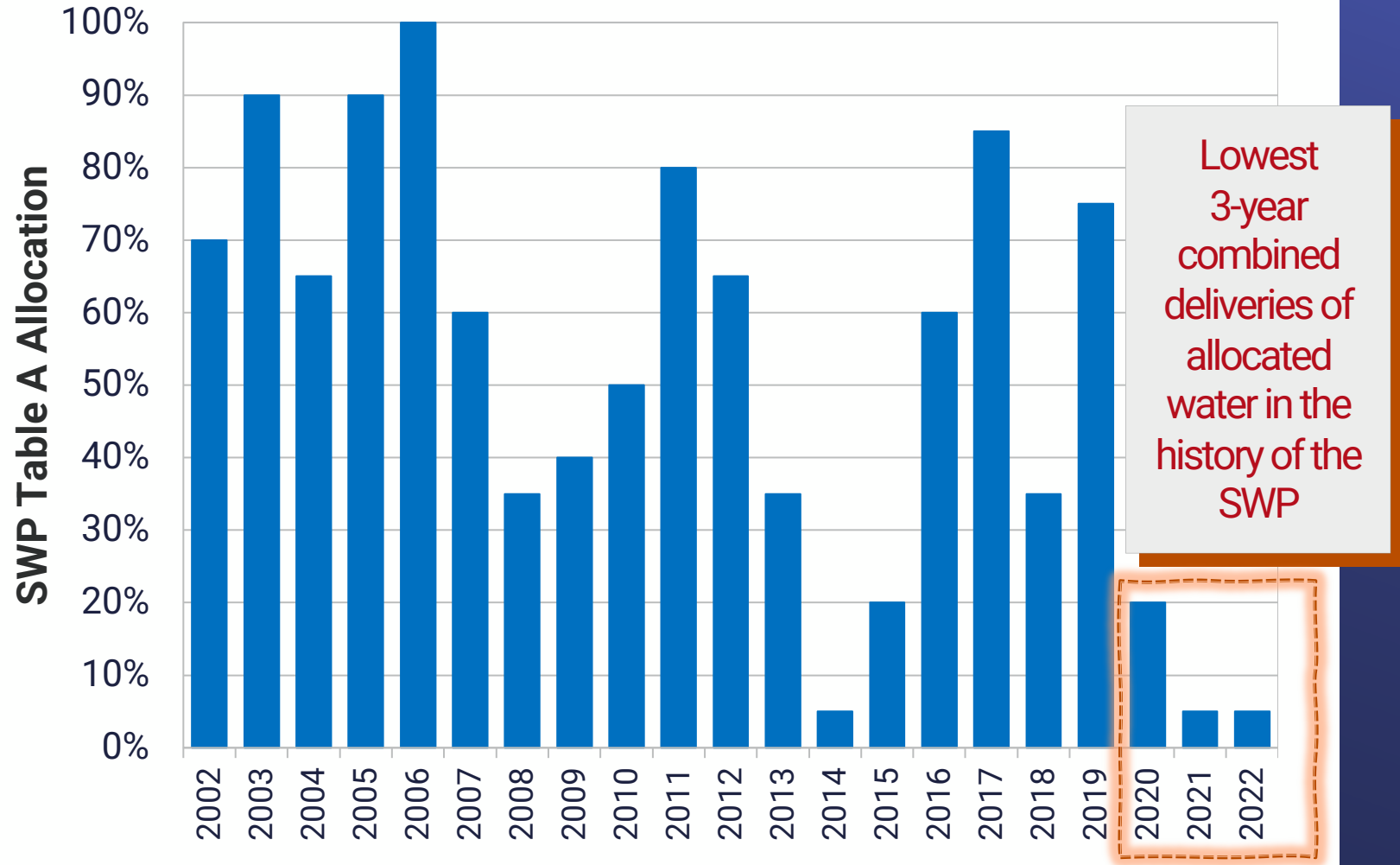


Powell Unregulated Inflow

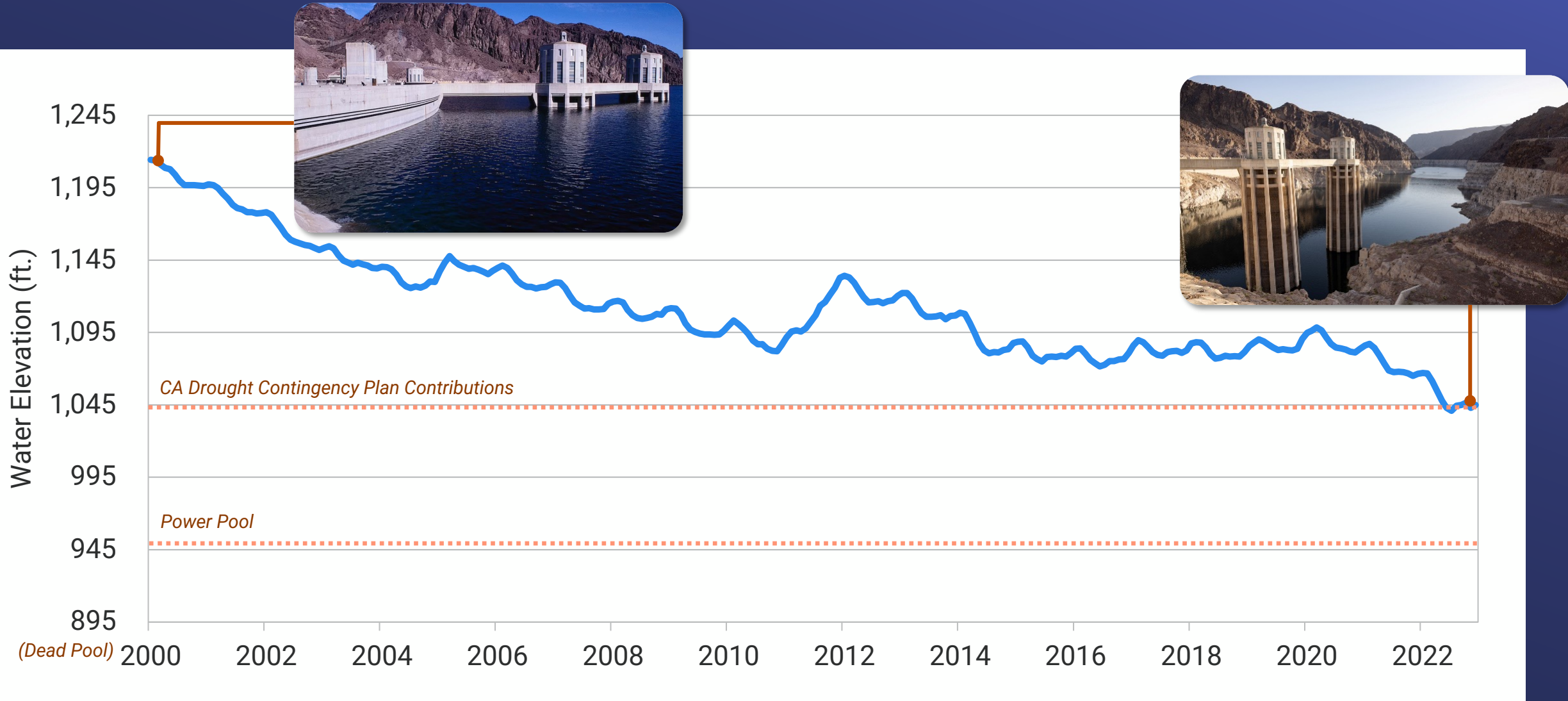


Historic Swings in SWP Allocation

Historic State Water Project Allocations

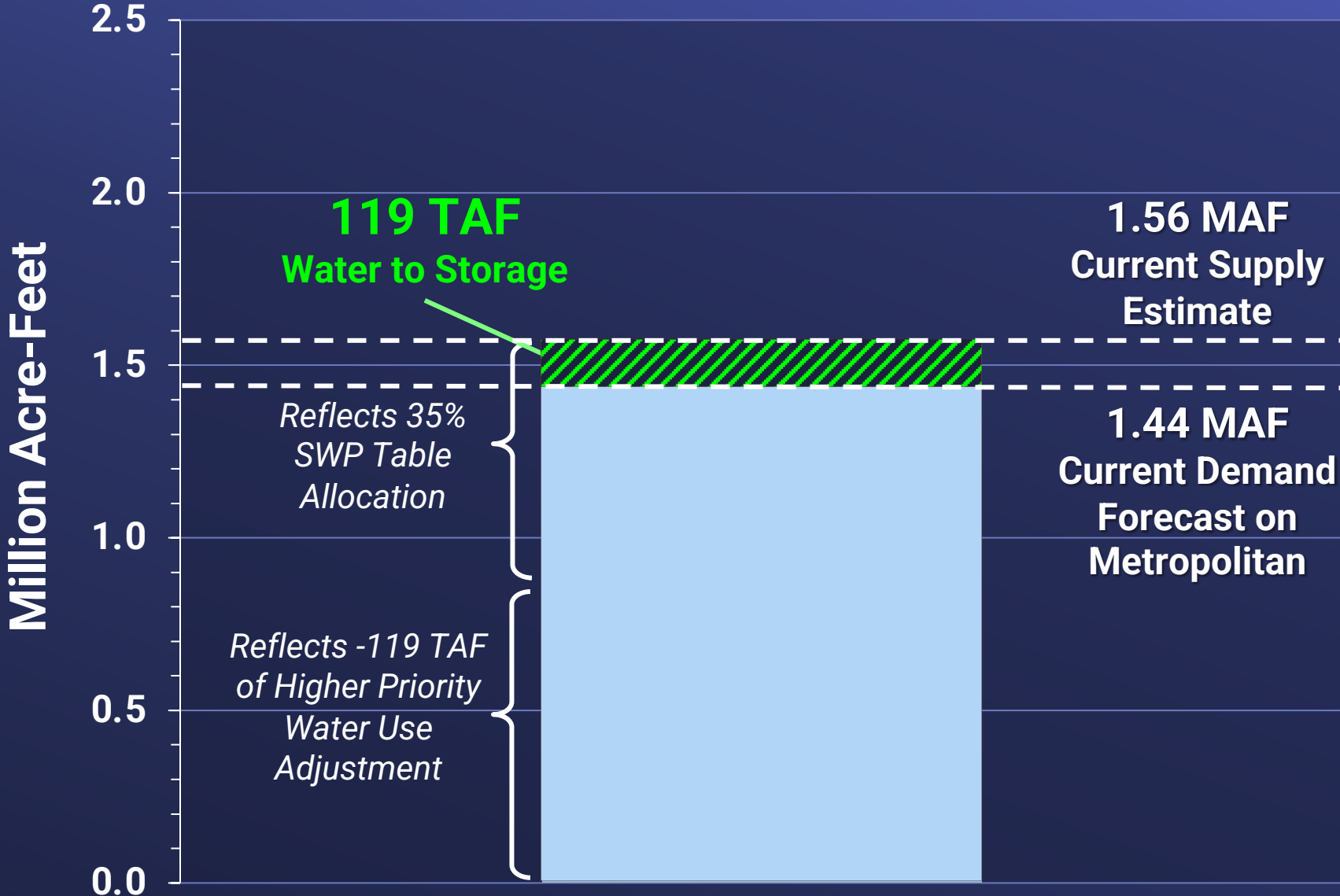


Lake Mead Water Level Declining Trend



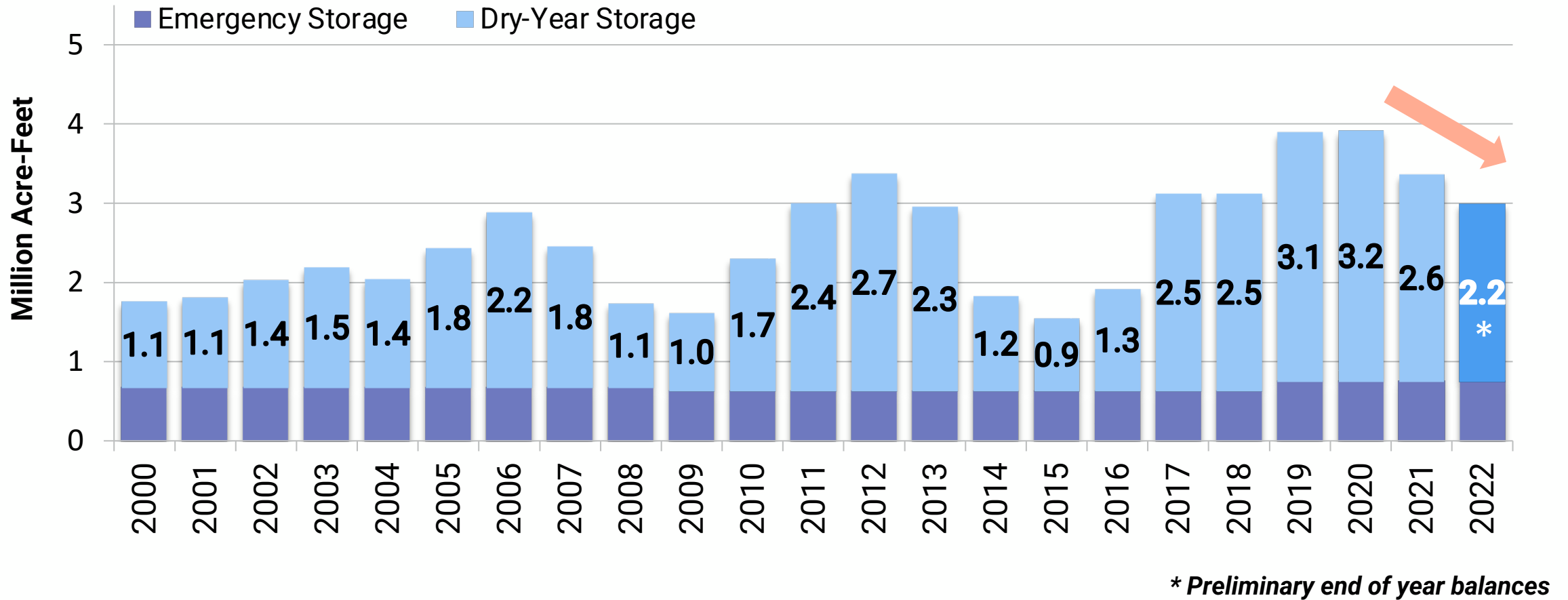
2023 Water Supply Demand Balance

Improved Conditions Will Allow for Puts into Storage



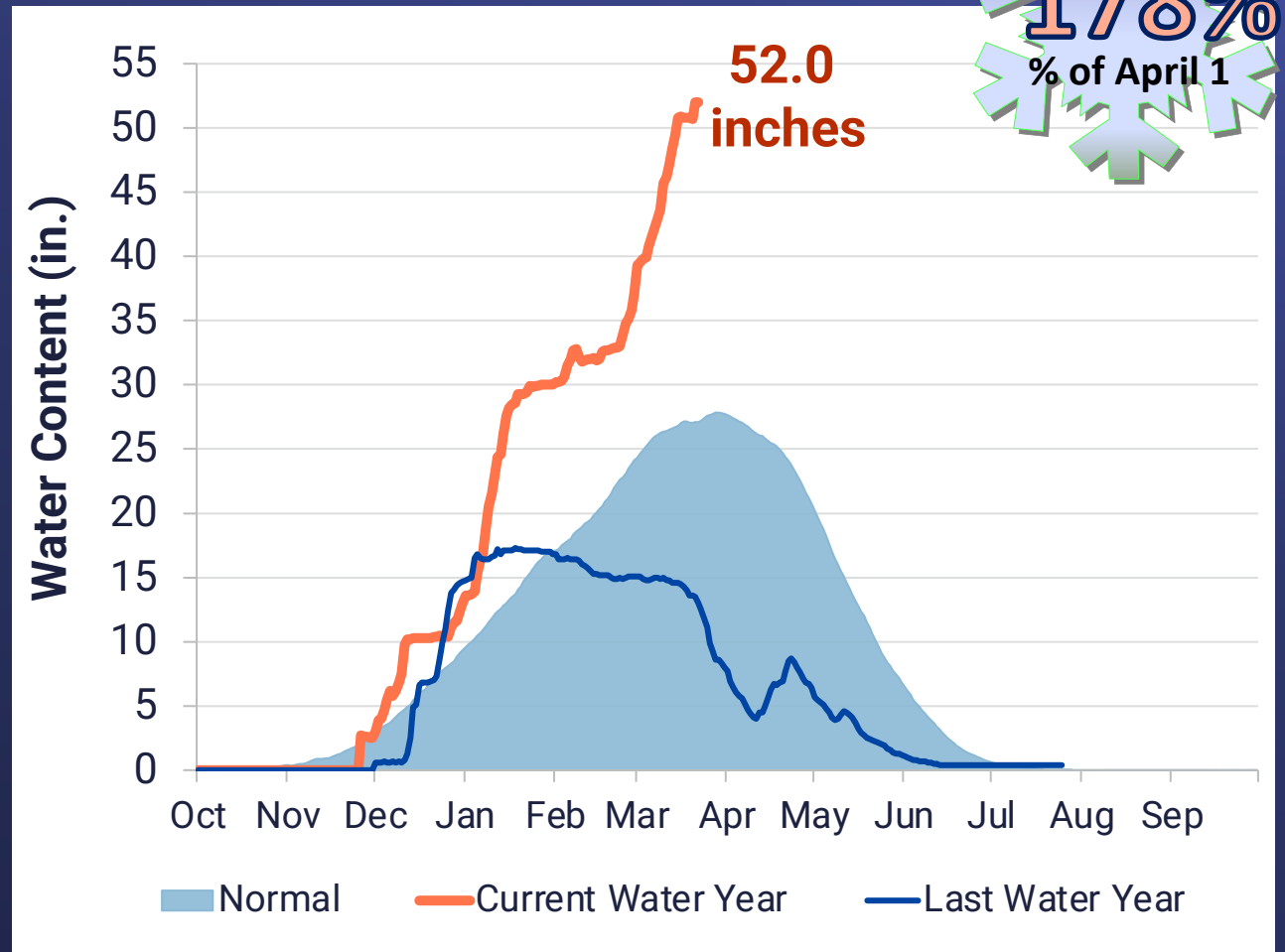
Note: Data as of February 28, 2023

Draft From Storage to Manage Through Dry Years



Above Normal Snowpack for Northern Sierra

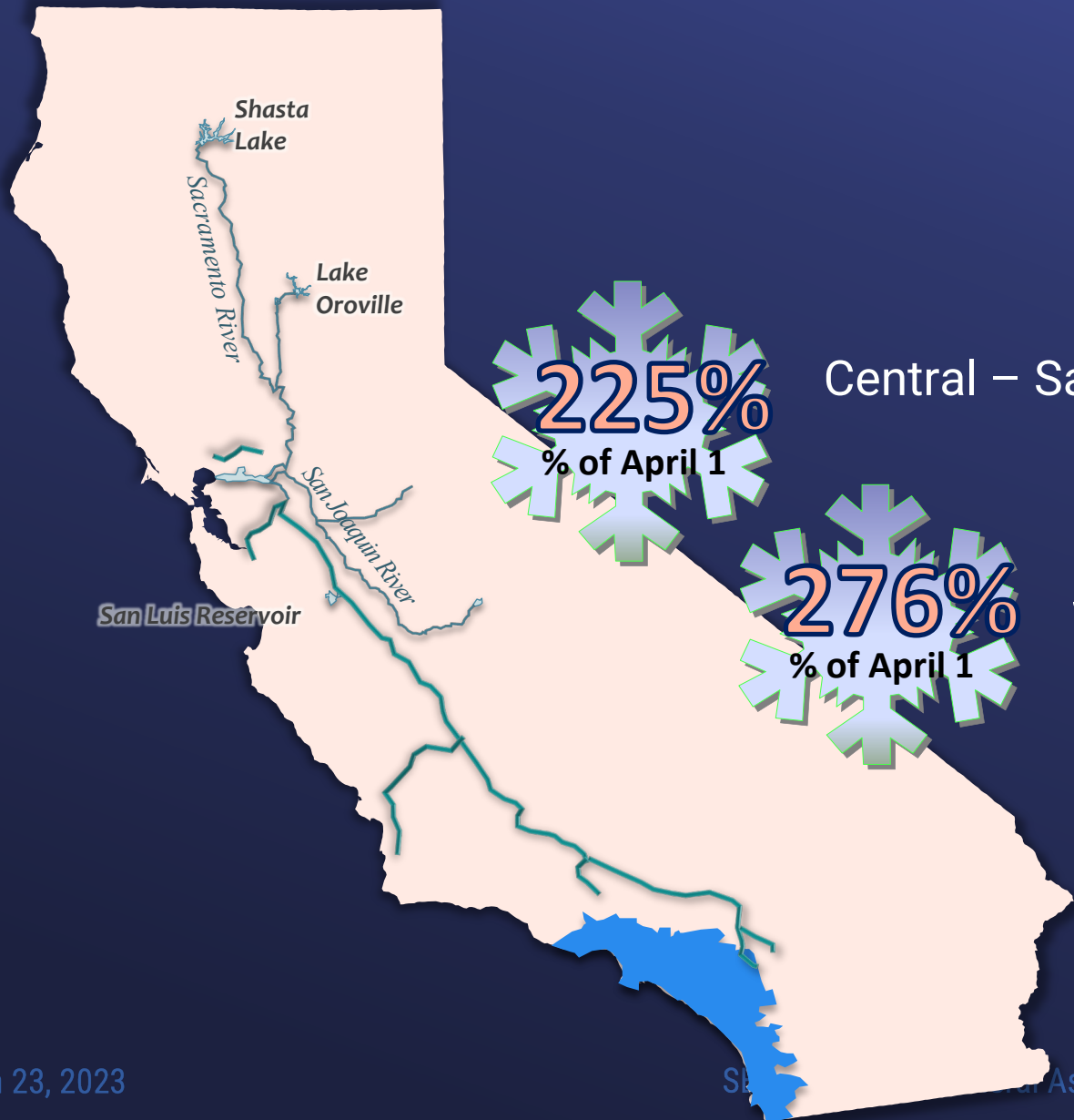
As of 3/22/2023



178%
% of April 1

Significant Snowpack Gains Throughout the Sierra Nevada

As of 3/22/2023



178%
% of April 1

225%
% of April 1

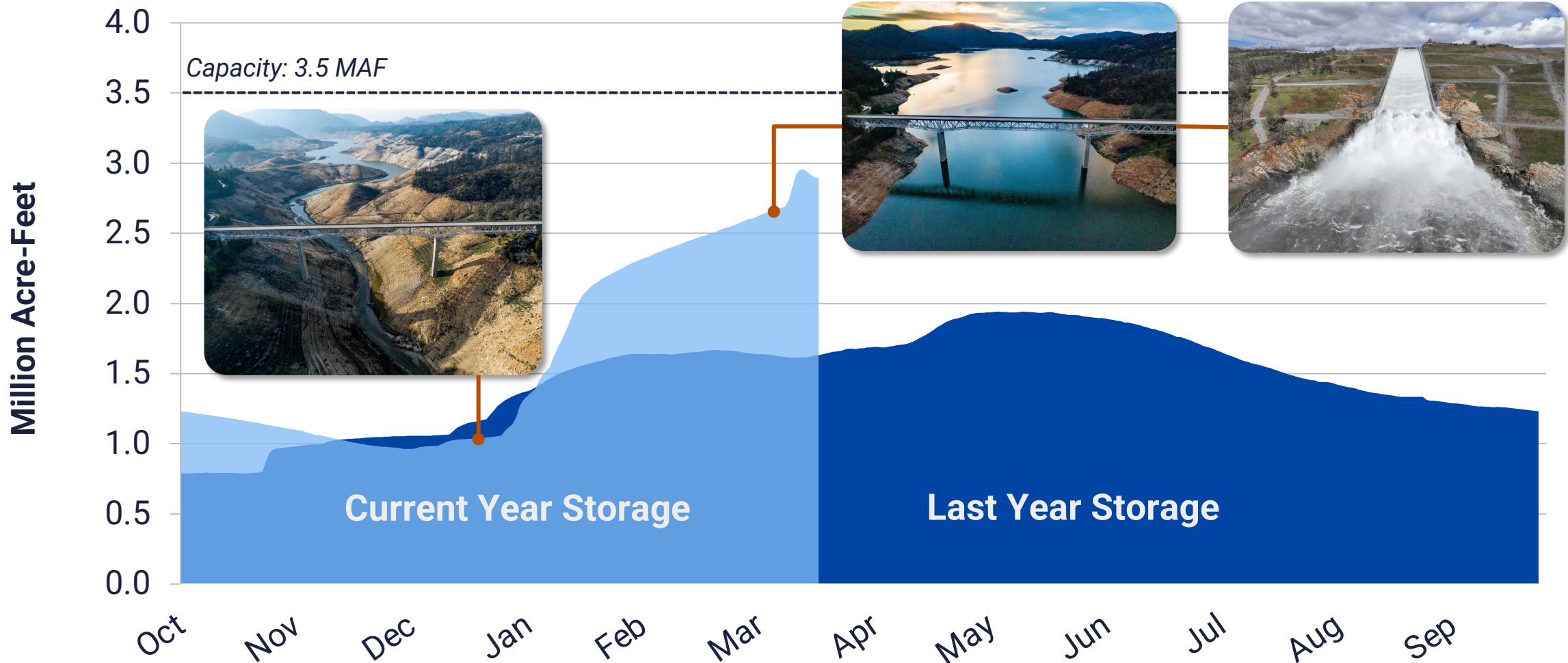
276%
% of April 1

Central – San Joaquin River Flows

South – Los Angeles Aqueduct Supply

Significant Gains in Lake Oroville Storage

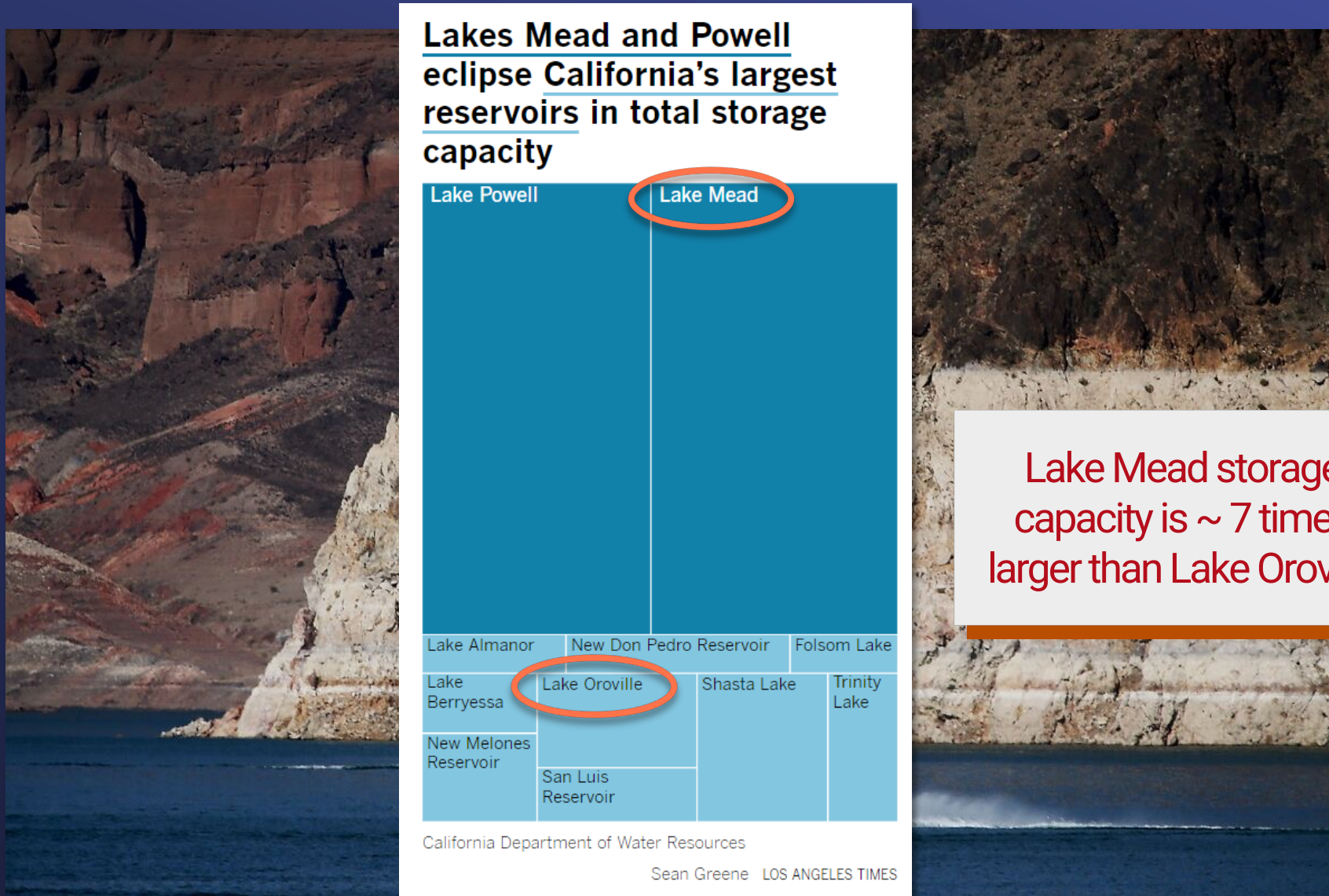
As of 3/21/2023



Storms Submerge “Bathtub Ring” in Lake Oroville...



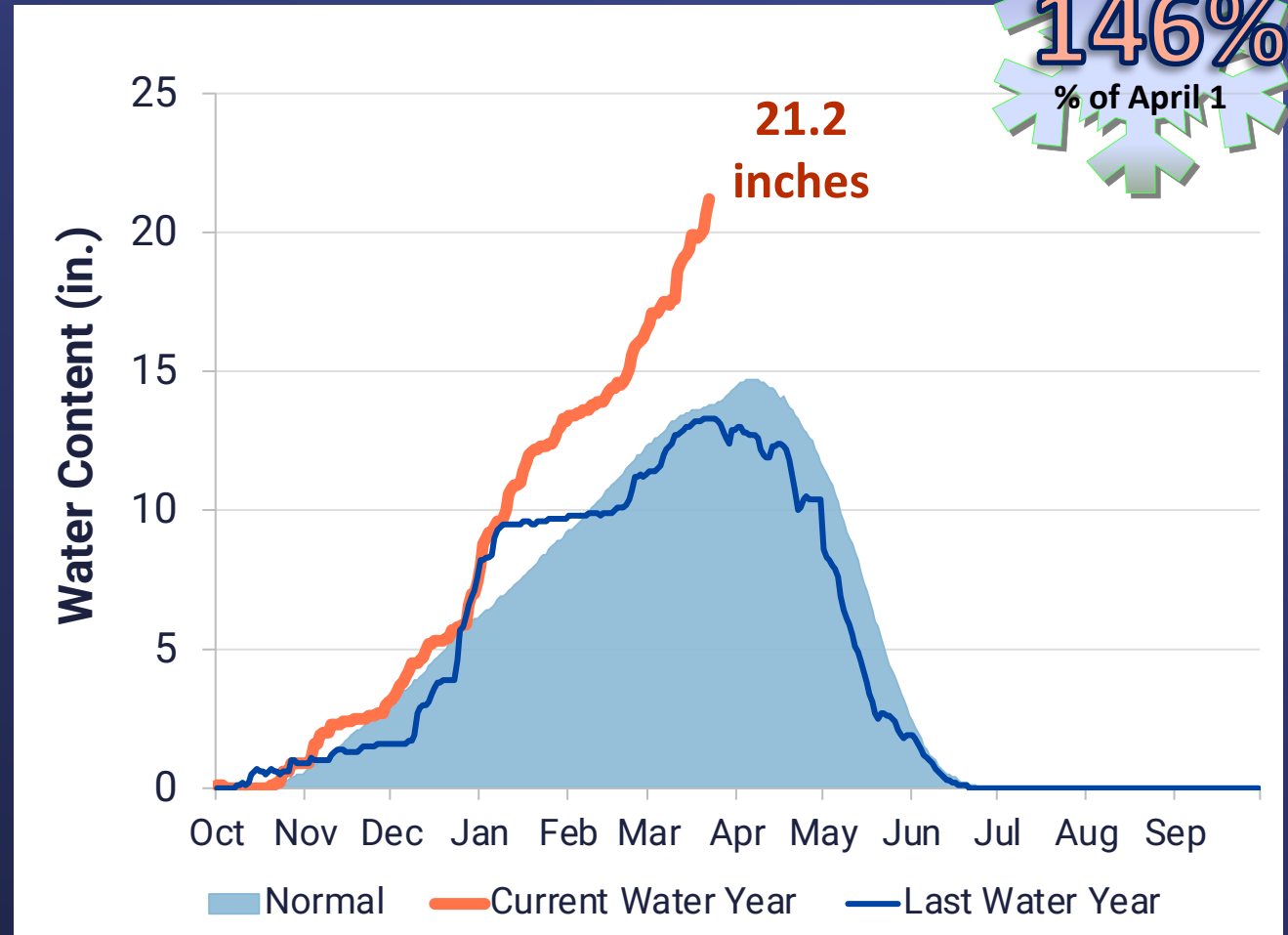
... but Is Not Enough for Lake Mead



Lake Mead storage capacity is ~ 7 times larger than Lake Oroville

Above Normal Snowpack for Upper Colorado River Basin

As of 3/22/2023



146%
% of April 1

Colorado River Watershed

Ongoing Challenges



- Recent disparity between snowpack and resulting runoff is exacerbating ongoing drought
- Colorado River Basin States are proposing ways to reduce Colorado River water use
 - Six-State Proposal: Disadvantages California and bypasses existing water rights
 - California Proposal: Builds on the Law of the River and maintains a cooperative environment for developing long-term solutions
- Metropolitan is committed to actions that are achievable to protect Lakes Mead and Powell
 - Continuing to engage with the other Basin states to reach consensus on reducing water use
 - Metropolitan is not planning for a full Colorado River Aqueduct in the next few years

State Water Project Supply

Improving Conditions



- SWP Allocation increased from initial 5% to 35%
 - Improved hydrologic conditions from late December and January storm events
 - Metropolitan now able to put water into storage
- Metropolitan no longer in shortage condition for SWP Dependent Area
 - Metropolitan has sufficient supplies to meet the needs of the SWP Dependent Area
 - Improved local supply conditions and ongoing water use efficiency efforts, including those initiated prior to the EWCP, are decreasing demands on Metropolitan
- Additional increases to the SWP Table A Allocation expected
 - DWR will continue to reflect the forecasted runoff from the existing and developing snowpack in the coming months



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