Southern California Water Dialogue

Water Year 2023 Recap and Outlook for 2024

January 24, 2024

Metropolitan Water District of Southern California

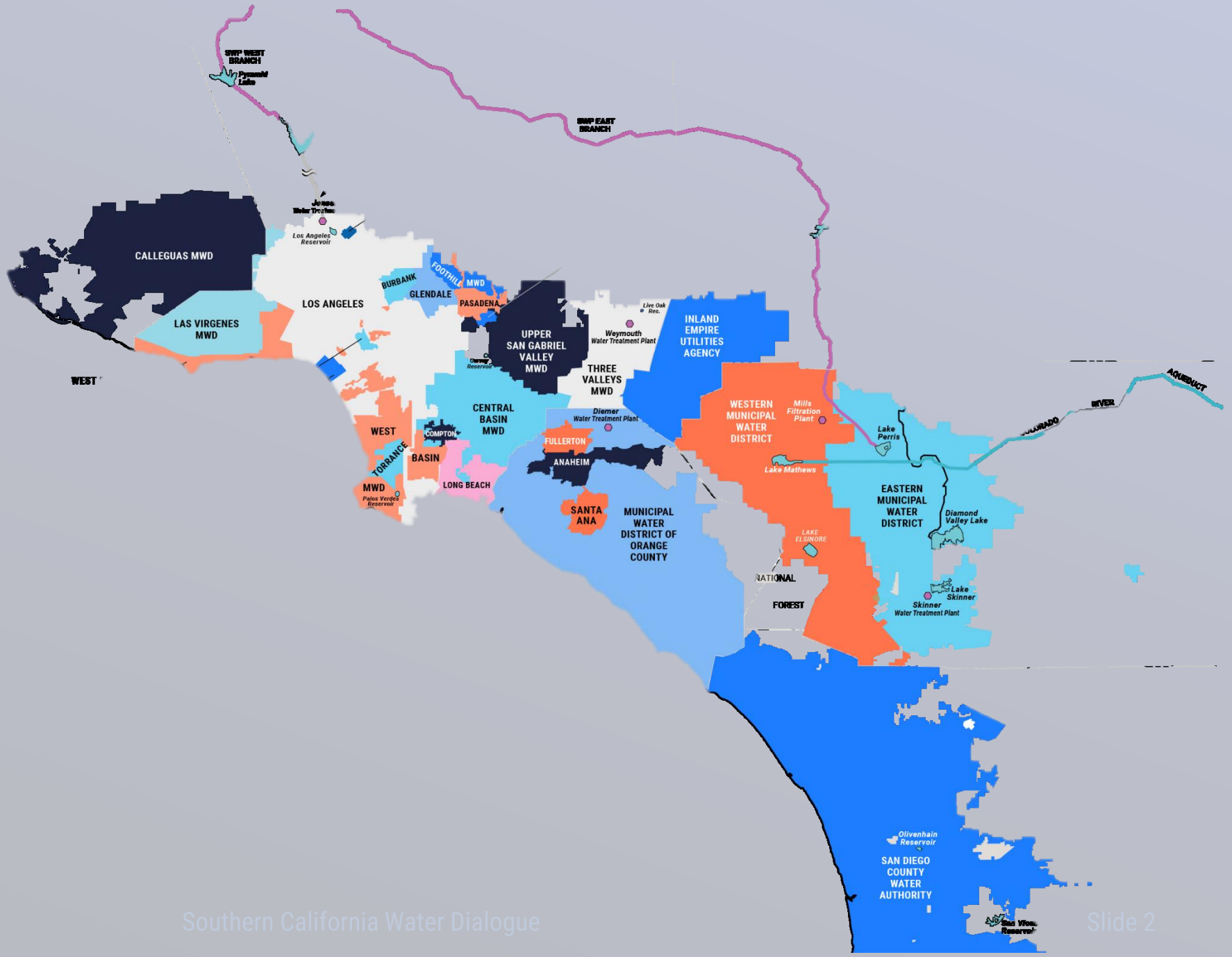
Regional water wholesaler

19 million people

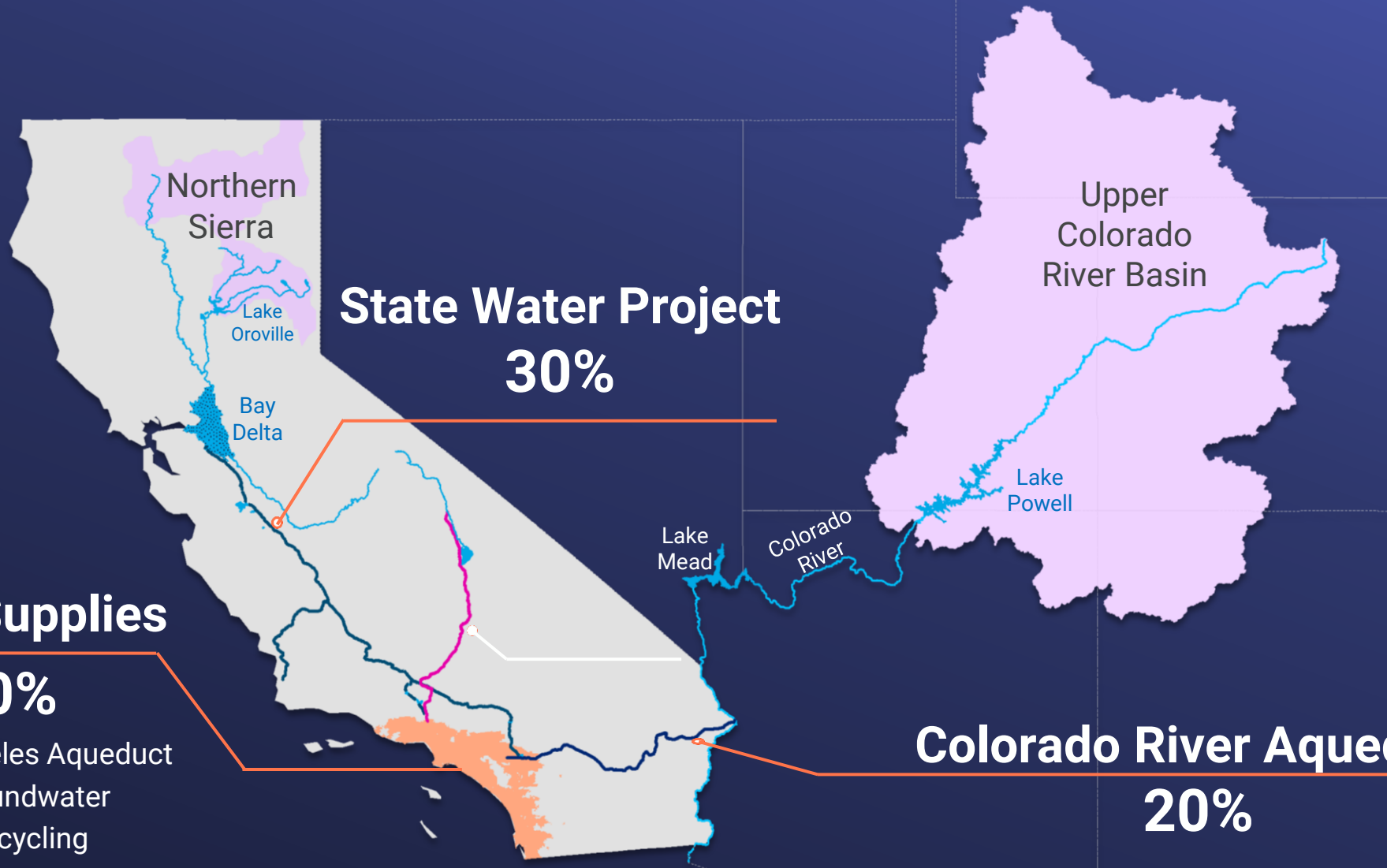
26 member agencies

Six counties

5,200 square miles



Metropolitan Water District's Sources of Supplies



State Water Project
30%

Local Supplies
50%
- Los Angeles Aqueduct
- Groundwater
- Recycling
- Desalination

Colorado River Aqueduct
20%


Phillips Station, Sierra Nevada (March 2023)
Water Year
2023
Credit: DWR

Water Year 2023: Drought to Abundance

Started with…

Shasta Lake (October 2022)

Credit: DWR

Lake Oroville (October 2022)

Credit: DWR

Lake Mead (January 2023)

Credit: Fox News Las Vegas

Ended with…

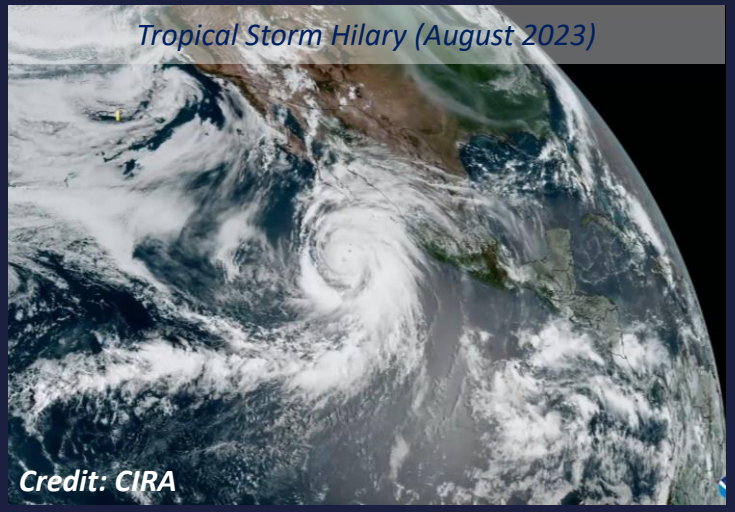
Tulare Lake (May 2023)

Credit: DWR

Los Angeles (March 2023)

Credit: Getty Images

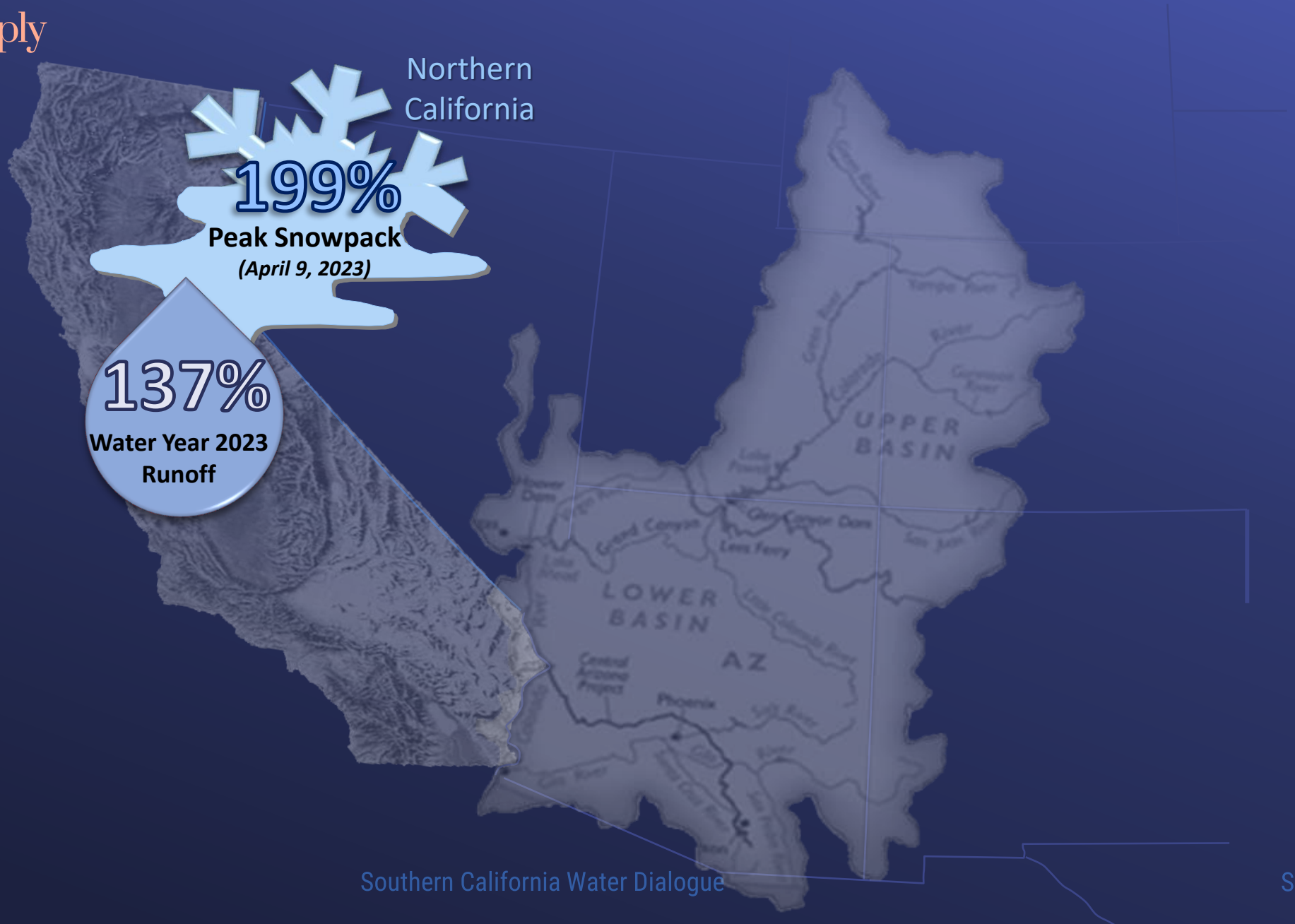
Tropical Storm Hilary (August 2023)



Credit: CIRA

Water Year Hydrologic Conditions: Near-Record Breaking

Imported Water Supply



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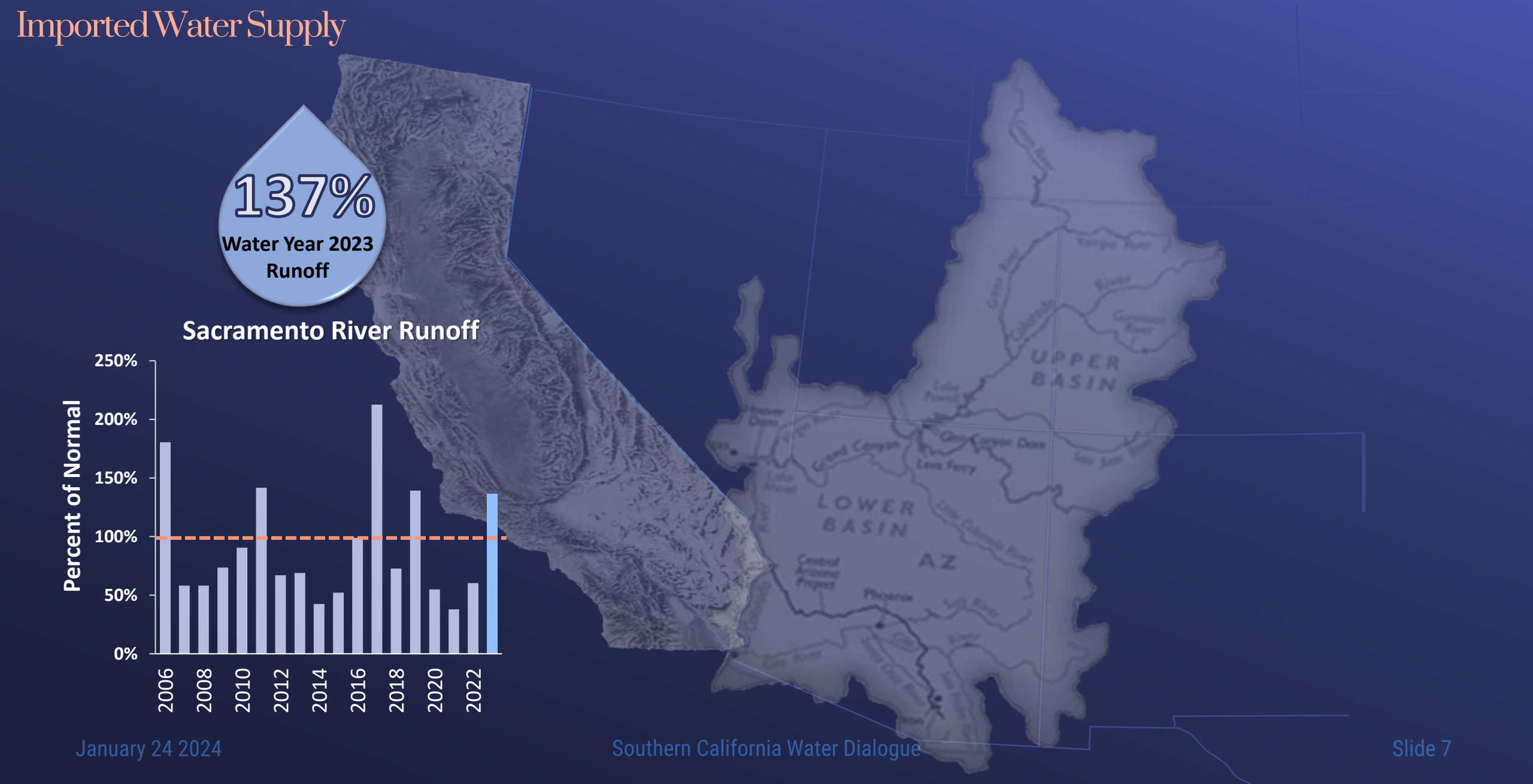
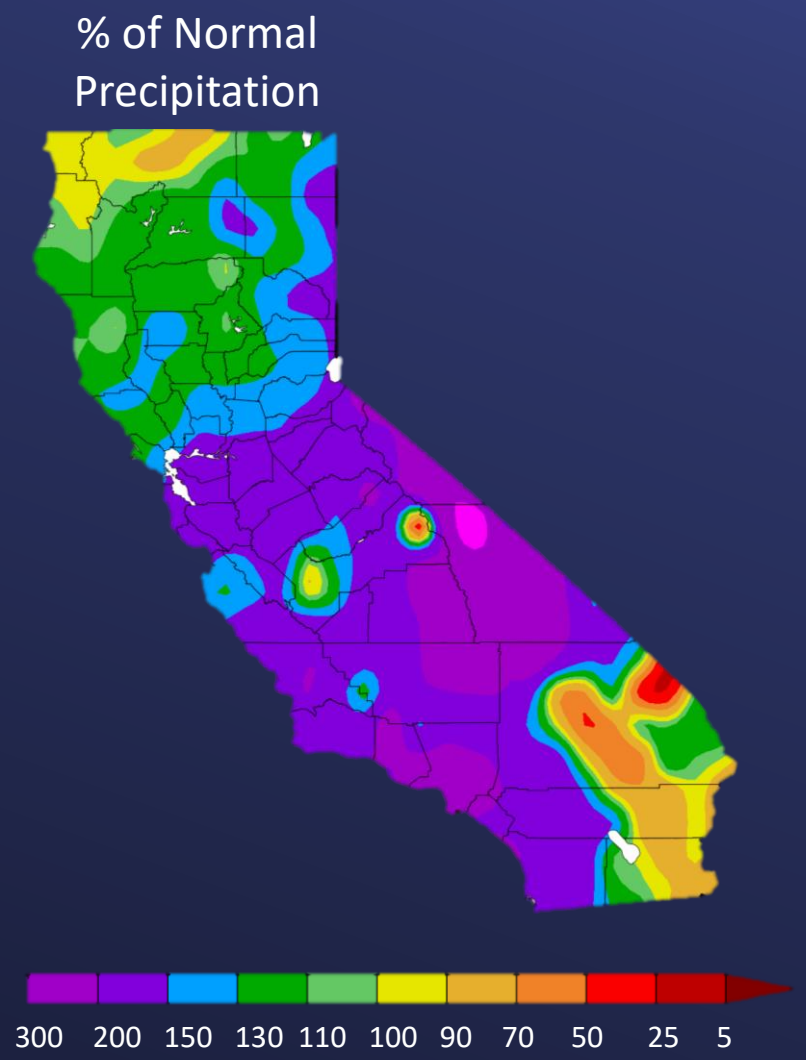
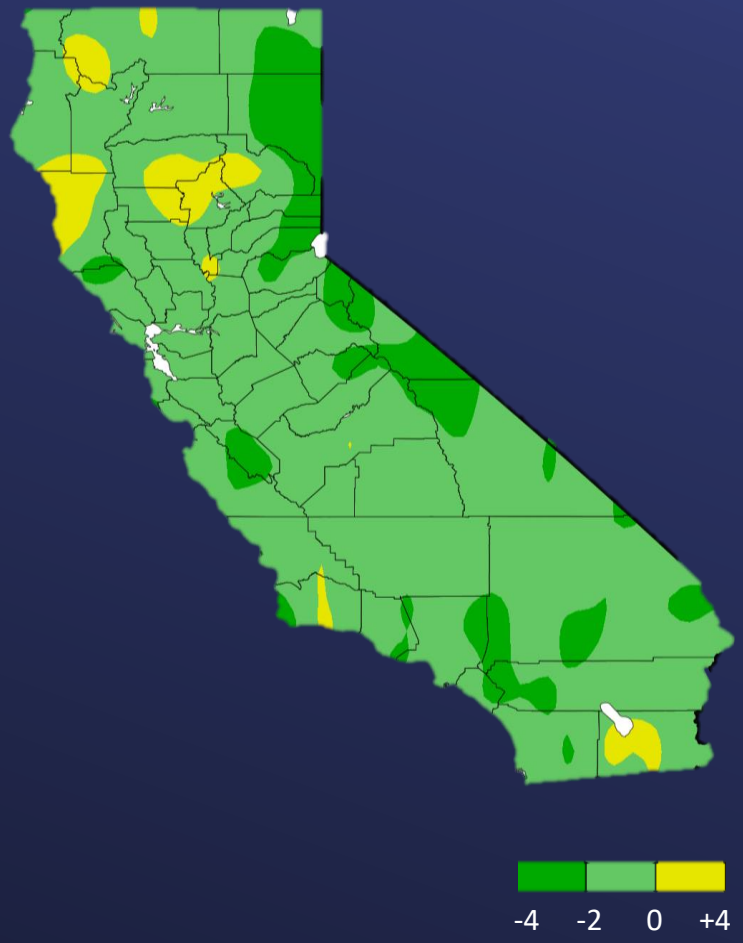


Above Normal Precipitation : Multiple Atmospheric River Events



Below Normal Temperatures – Heavy Snowpack Accumulation

Departure from Normal Temperature (°F)



Credit: NASA Earth Observatory

Lake Oroville Spillway: Flood Control Releases

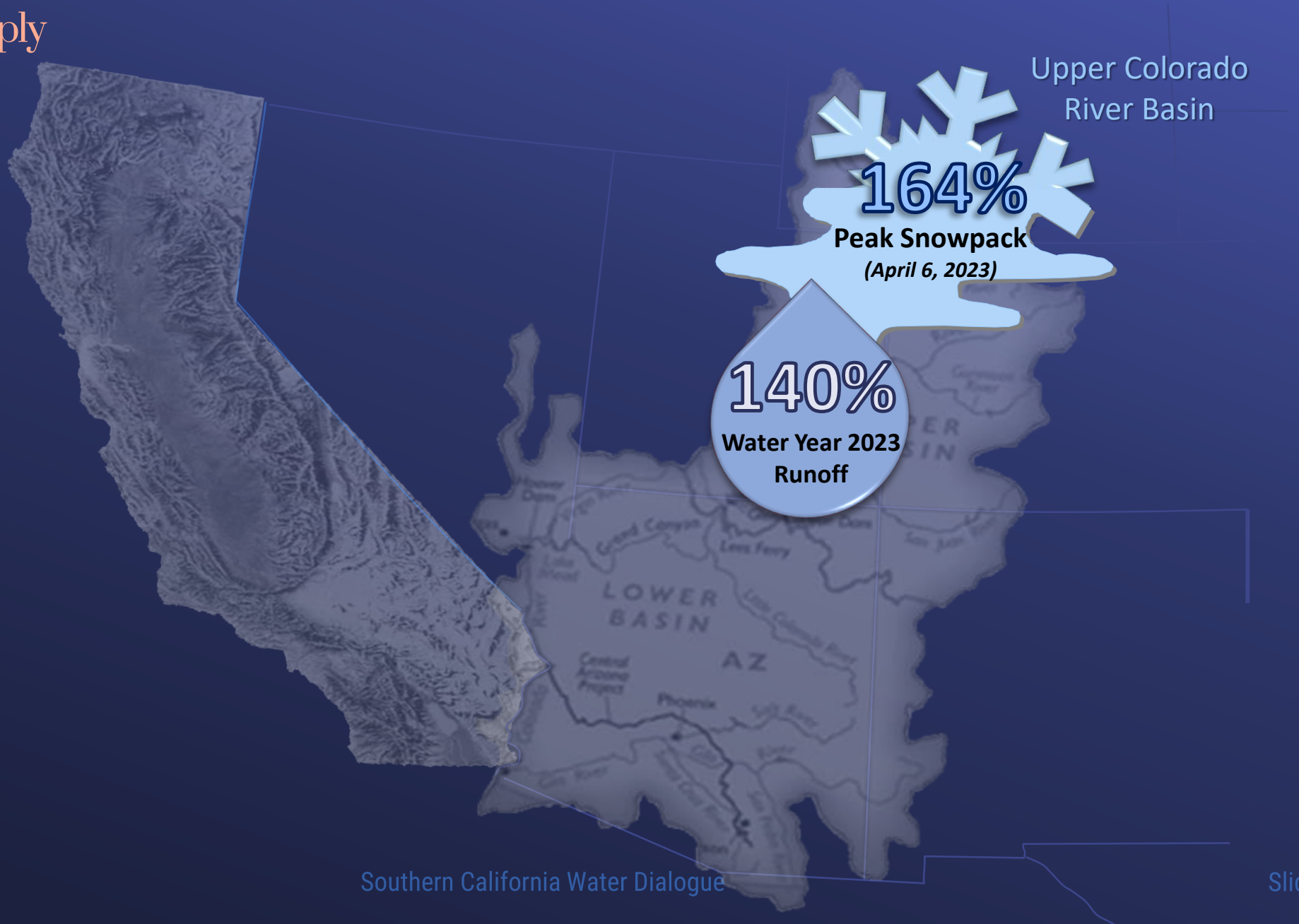
State Water Project Allocation:

100%

Highest Allocation Since 2006

Water Year Hydrologic Conditions: Near-Record Breaking

Imported Water Supply



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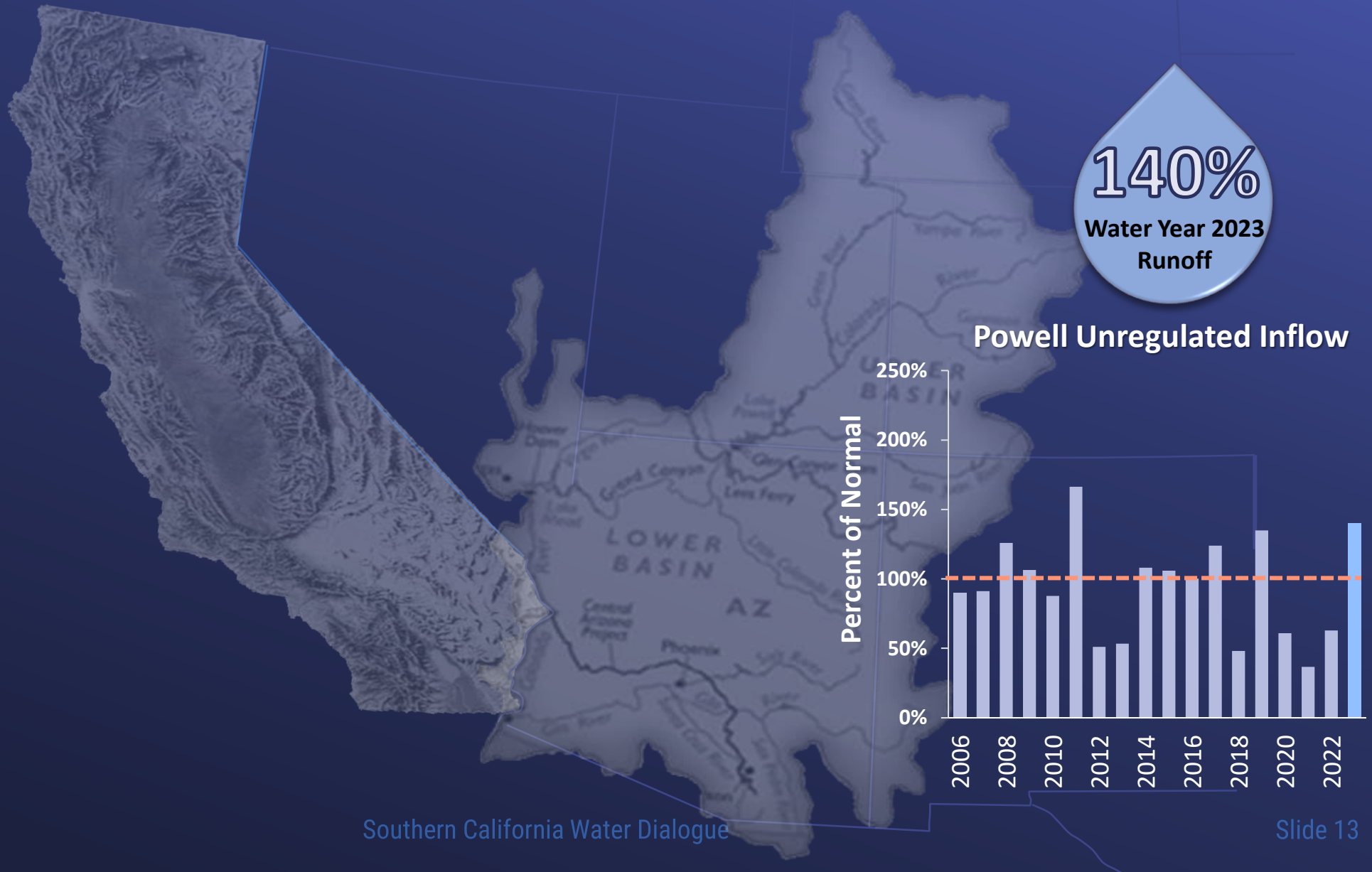
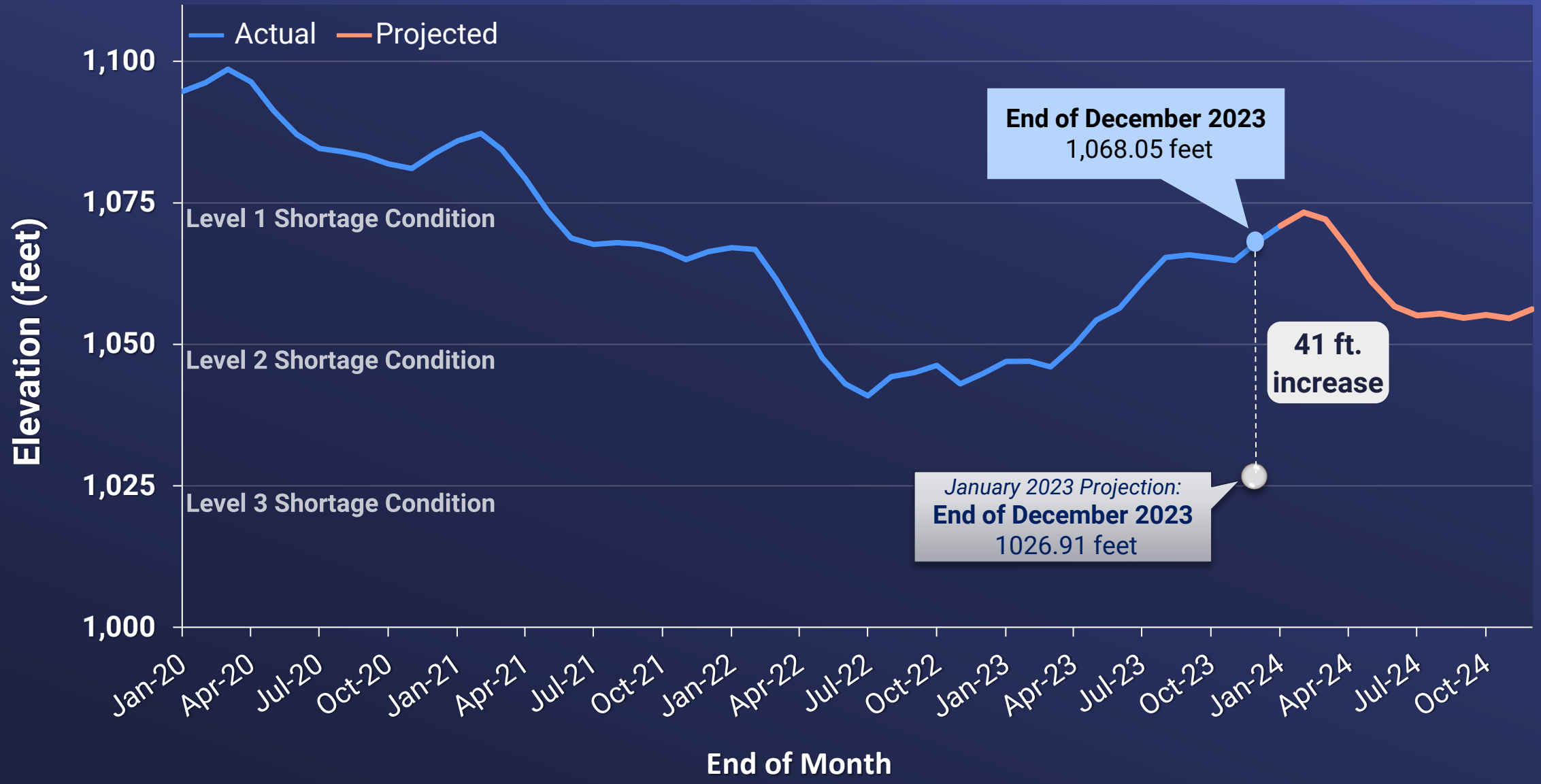


Improved Lake Mead Levels: Higher Than Anticipated

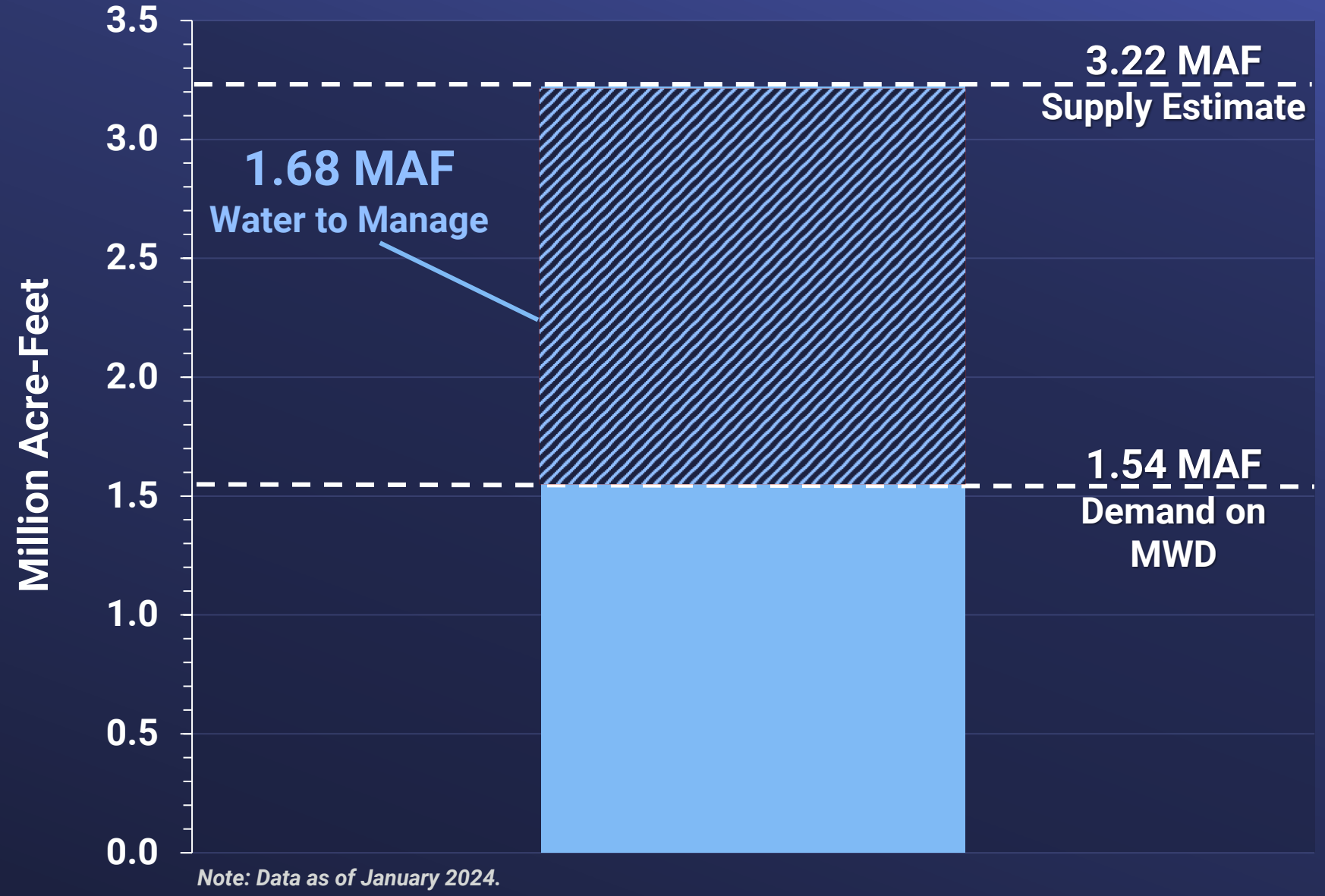


Source: USBR's January 2024 24-Month study

Colorado River Supply:

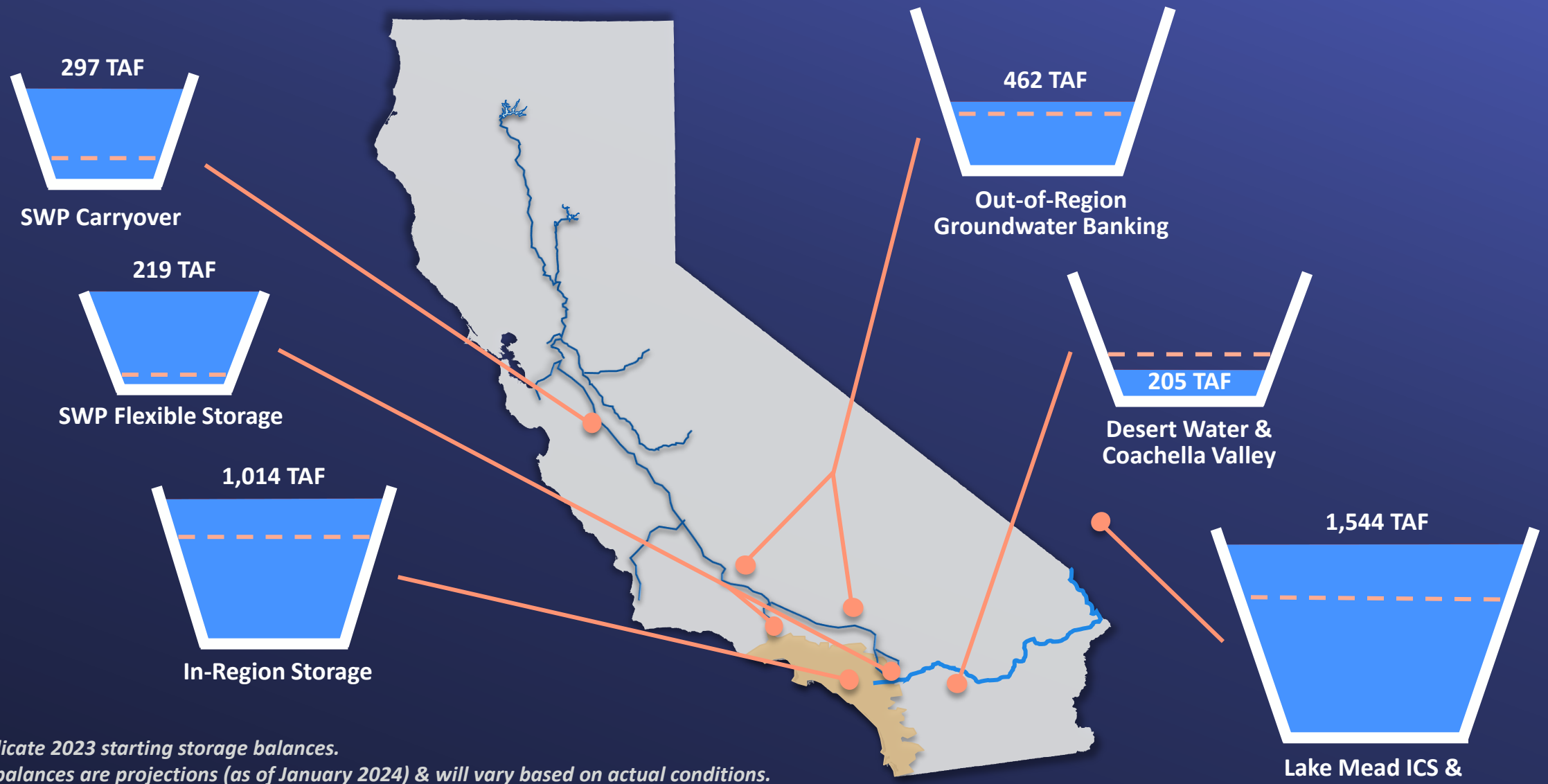
No Shortages impacting MWD Supply

2023 Water Supply/Demand Balance: Regional View



Note: Data as of January 2024.

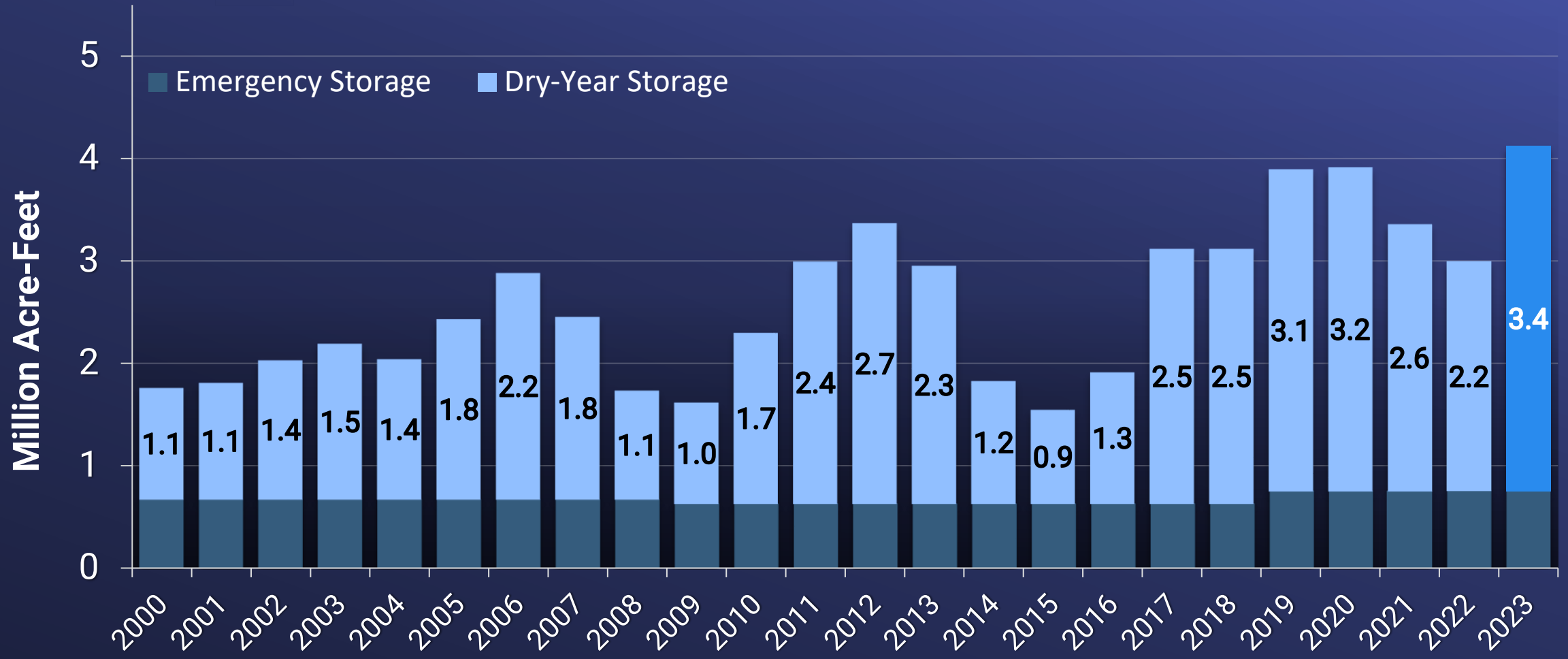
Metropolitan's 2023 Storage Actions: ~ 1.14 MAF Increase



Notes:

1) *Dashed lines indicate 2023 starting storage balances.*
2) *Ending storage balances are projections (as of January 2024) & will vary based on actual conditions.*
3) *In-region storage includes emergency storage.*
4) *Storage buckets are not drawn to scale.*

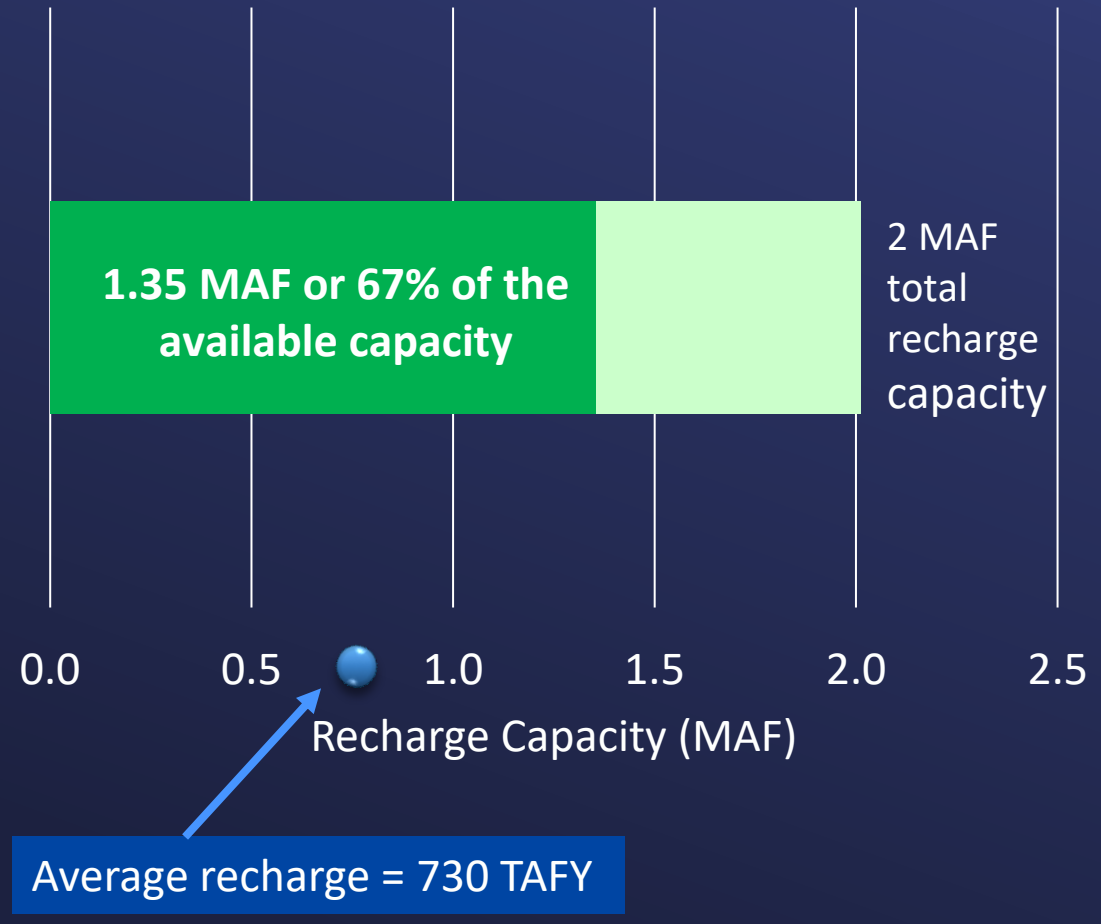
Metropolitan Dry-Year Storage
End-of-Year Balances



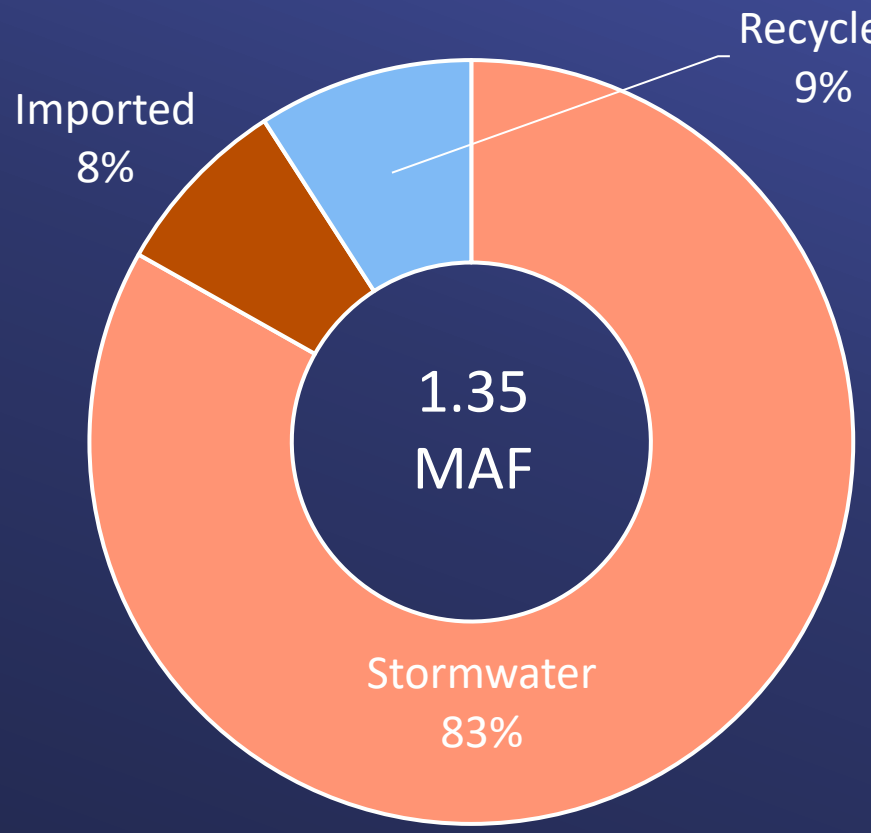
Note:
2023 end-of-year balance is preliminary as they are subject to USBR final accounting.

Record Groundwater Recharge in WY 2023
Non-Metropolitan Facilities

WY 2023 Active Recharge Capacity



WY 2023 Active Groundwater Recharge




Phillips Station, Sierra Nevada (January 2024)
Hydrologic Conditions Update
Credit: DWR

Initial 2024 SWP Table A Allocation

DWR Announces Initial State Water Project Allocation of 10 Percent for 2024

Published: Dec 01, 2023

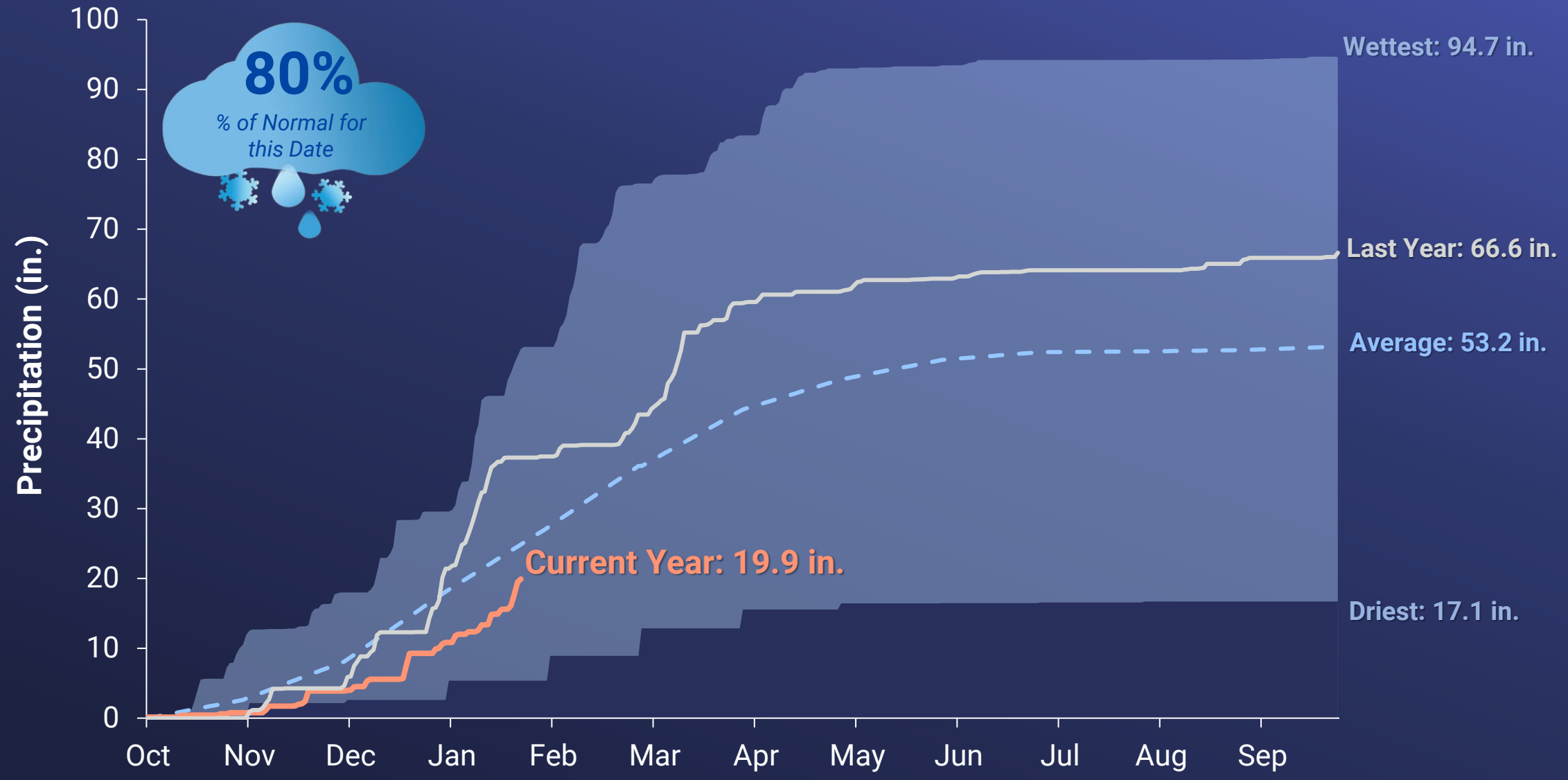
- Reflects current reservoir storage conditions and relatively dry start to Water Year 2024
  - DWR estimates at least 90% chance 2024 SWP Allocation increases above 10%
  - Current DWR study shows a range of final allocations of 10% to 50% if remainder of the year is dry or wet respectively

Meeting Fall X2 Requirements Lowered San Luis Reservoir

- Regulatory Requirements in Wet and Above Normal water years during September and October
- Creates suitable Delta Smelt habitat in Suisun Bay (80 km from Golden Gate Bridge)
- Estimated SWP Water Cost: ~600 TAF
  - Oroville: ~ 300 TAF
  - Exports ~300 TAF

Northern Sierra Precipitation: 8-Station Index

As of 01/23/2024



Planning for 2024

Preparing for Dry & Wet Conditions

If dry conditions continue…

- Meet SWP Dependent Area demands with available SWP supplies
- Utilize Metropolitan's SWP banking accounts
- Augment Colorado River deliveries with Lake Mead ICS
- Preserve storage supplies in SWP carryover, flexible, and Diamond Valley Lake
- Explore transfer opportunities

If conditions become wet…

- Further use of SWP supplies as SWP Allocation increases
- Fill Diamond Valley Lake
- Store water in Metropolitan's SWP banking programs and Colorado River storage programs, such as Lake Mead ICS
- Continue coordination with member agencies on managing surplus supplies

Planning for 2024

Coordination with Member Agencies to Manage Surplus Conditions

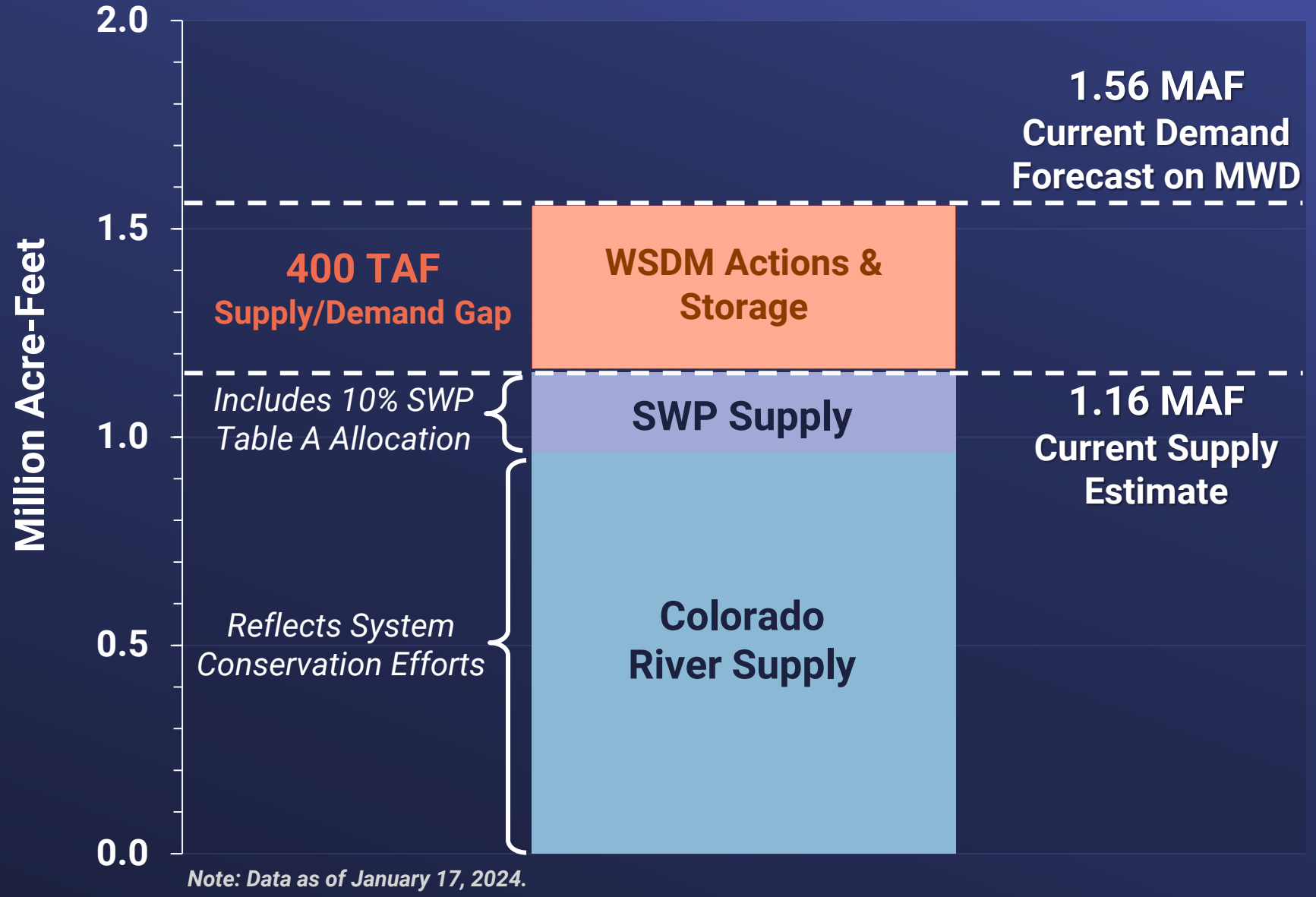
Existing Programs

- Cyclic Program
- Cyclic Cost Offset Program
- Reverse Cyclic
- Conjunctive Use Program
- MWD storage portfolio

Potential New Programs

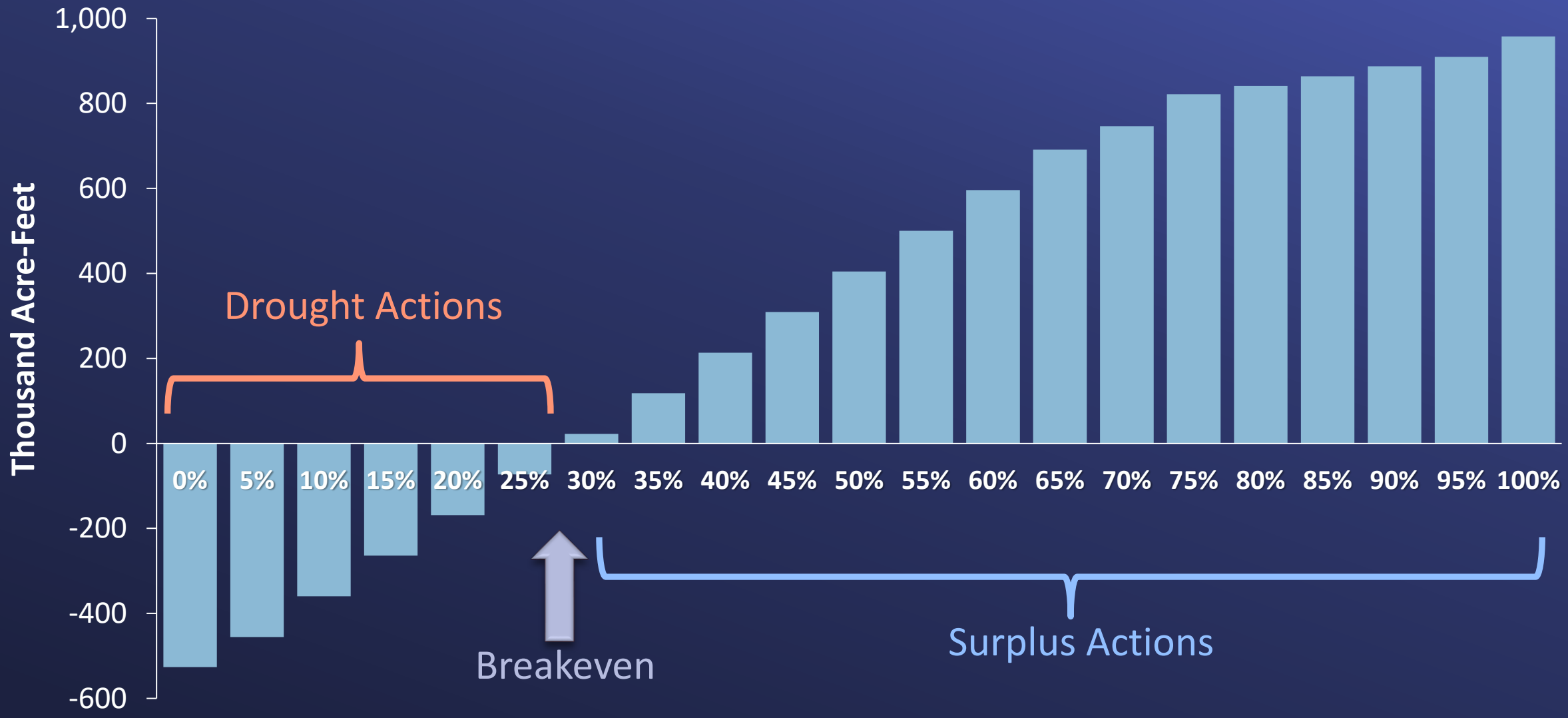
- Supplemental Water Management (SWM) Program

2024 Water Supply/Demand Balance: Regional View



Note: Data as of January 17, 2024.

2024 Supply/Demand Balances Across SWP Allocations



Note: Information as of December 2023. Assumes current trend demand on Metropolitan and forecasted Colorado River supplies.


THE METROPOLITAN WATER DISTRICT OF
SOUTHERN CALIFORNIA
1928