



One Water and Stewardship Committee

Update on WSDM

Item 6c

November 13, 2023

Item 6c

Update on WSDM

Subject

Update on WSDM

Purpose

Provide updated supply and hydrologic information

Water Year 2023: Drought to Abundance

Shasta Lake (October 2022)



Credit: DWR

Lake Oroville (October 2022)



Credit: DWR

Lake Mead (January 2023)



Credit: Fox News Las Vegas

Tulare Lake (May 2023)



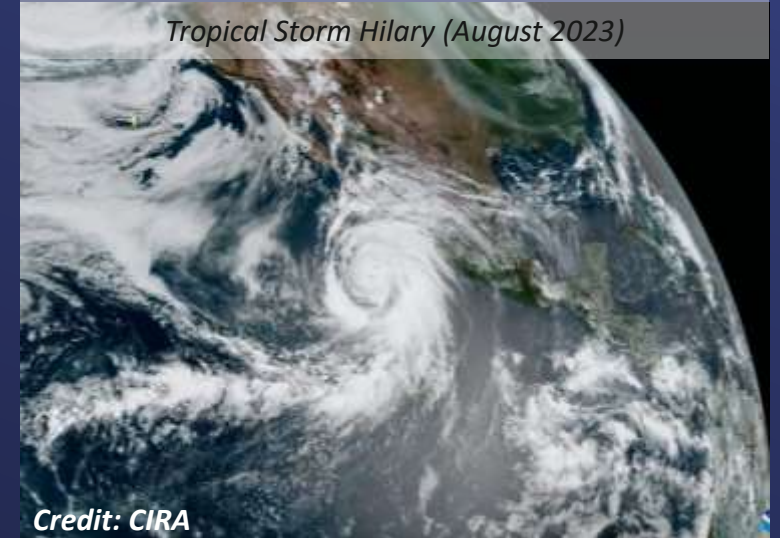
Credit: DWR

Los Angeles (March 2023)



Credit: Getty Images

Tropical Storm Hilary (August 2023)



Credit: CIRA

Word of the Water Year: Whiplash

2022



California's three-year drought continues with no relief in sight

The Guardian, 2022

Californians urged to save water as state faces dismal snowpack in Sierra Nevada

Los Angeles Times, 2022

'The brink of disaster': 2023 is a critical year for the Colorado River as reservoirs sink toward 'dead pool'

CNN, 2022

2023



California Braces for More Heavy Snow and Rain

The New York Times, 2023

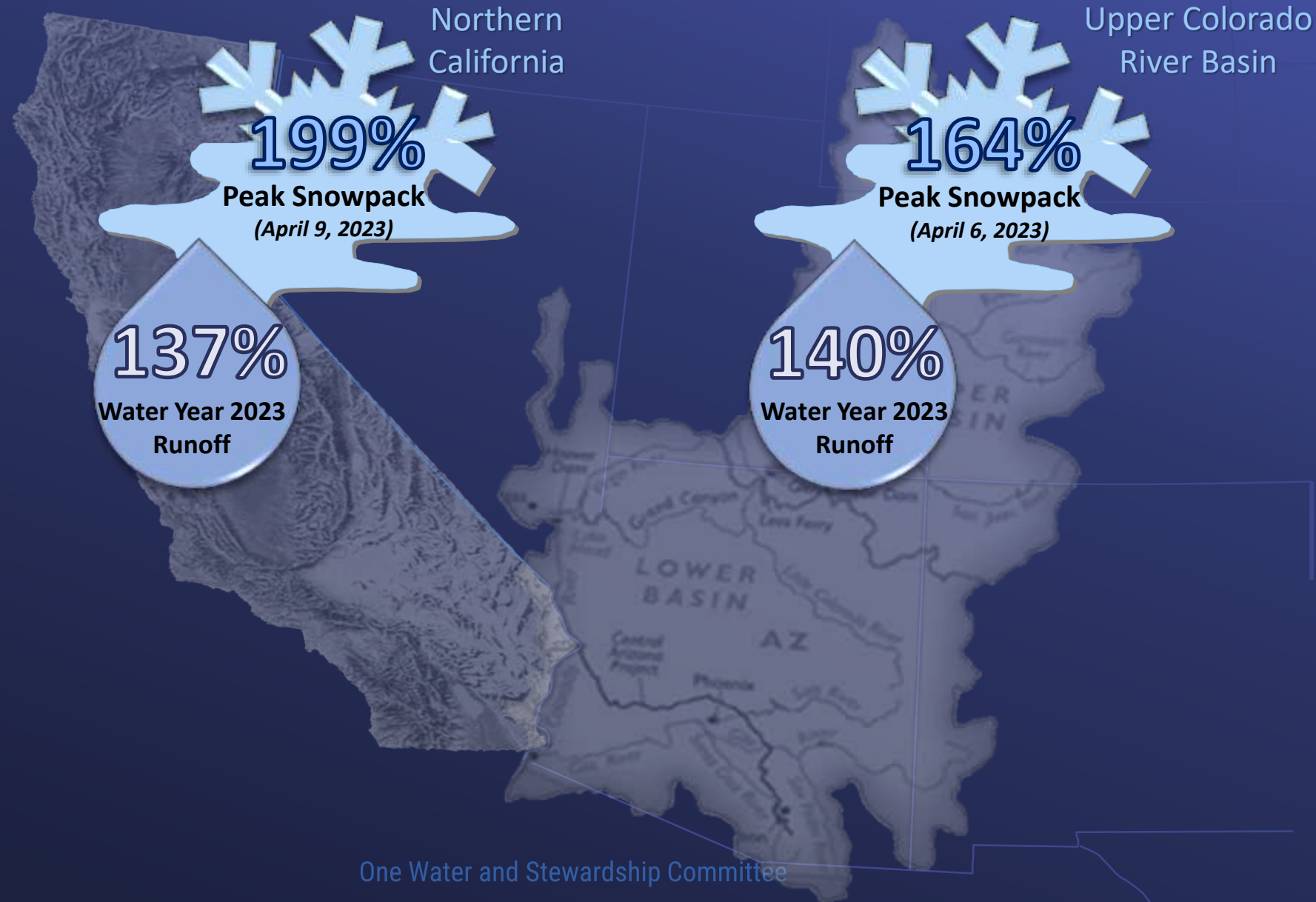
Epic California snowpack is now the deepest it's been in decades

Los Angeles Times, 2023

Here's how much Lake Mead could rise after an epic winter and new water cuts

CNN, 2023

Water Year Hydrologic Conditions: **Near-Record Breaking**

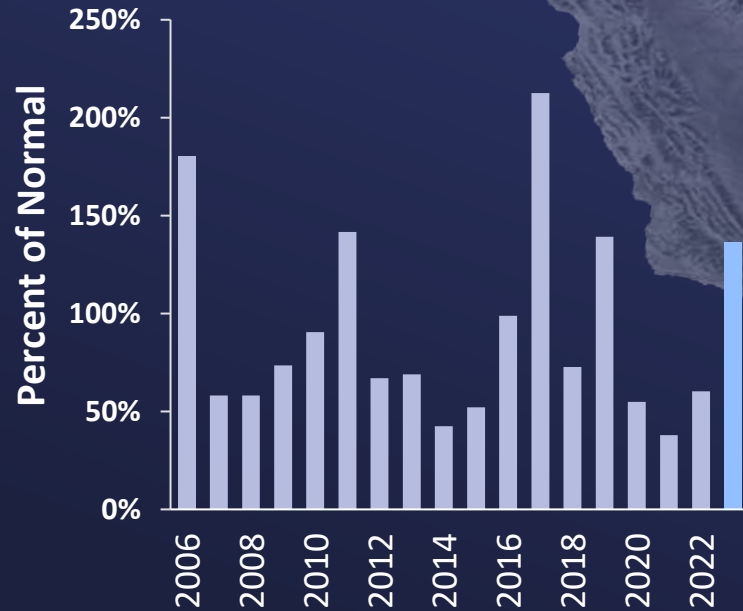


Water Year Hydrologic Conditions: **Near-Record Breaking**

137%

**Water Year 2023
Runoff**

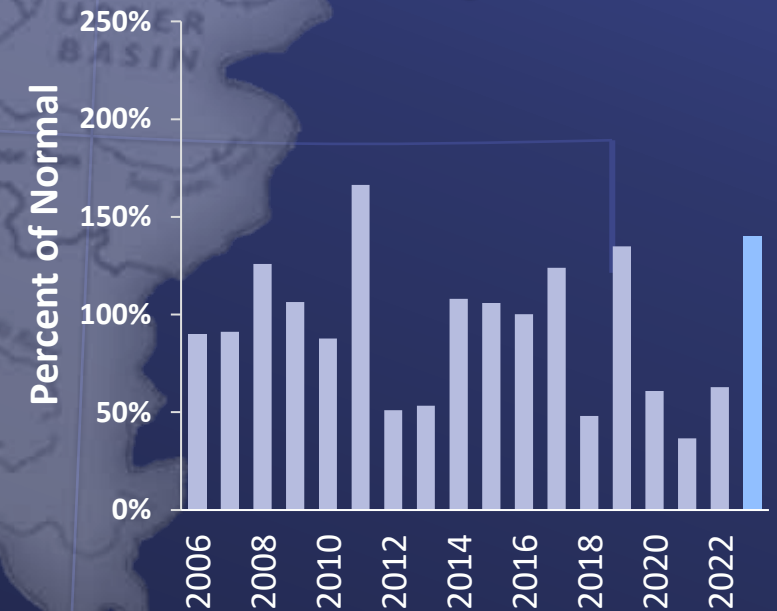
Sacramento River Runoff



140%

**Water Year 2023
Runoff**

Powell Unregulated Inflow



An aerial photograph of a winter landscape. The ground is covered in a thick layer of snow, with visible tracks and shadows. A small, dark-roofed cabin is nestled in the snow in the upper center. A stream flows through the lower right portion of the image, partially obscured by snow. Several evergreen trees are scattered throughout the scene, casting long shadows. The overall atmosphere is serene and cold.

State Water Project

November 13, 2023

Credit: DWR

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Water Year Highlights: State Water Project

Over 30
Atmospheric Rivers
Hit California

Near-Record
Breaking Snowpack

Allocation
Climbs to 100% as
Reservoirs Improve

Reversal in Drought
Conditions

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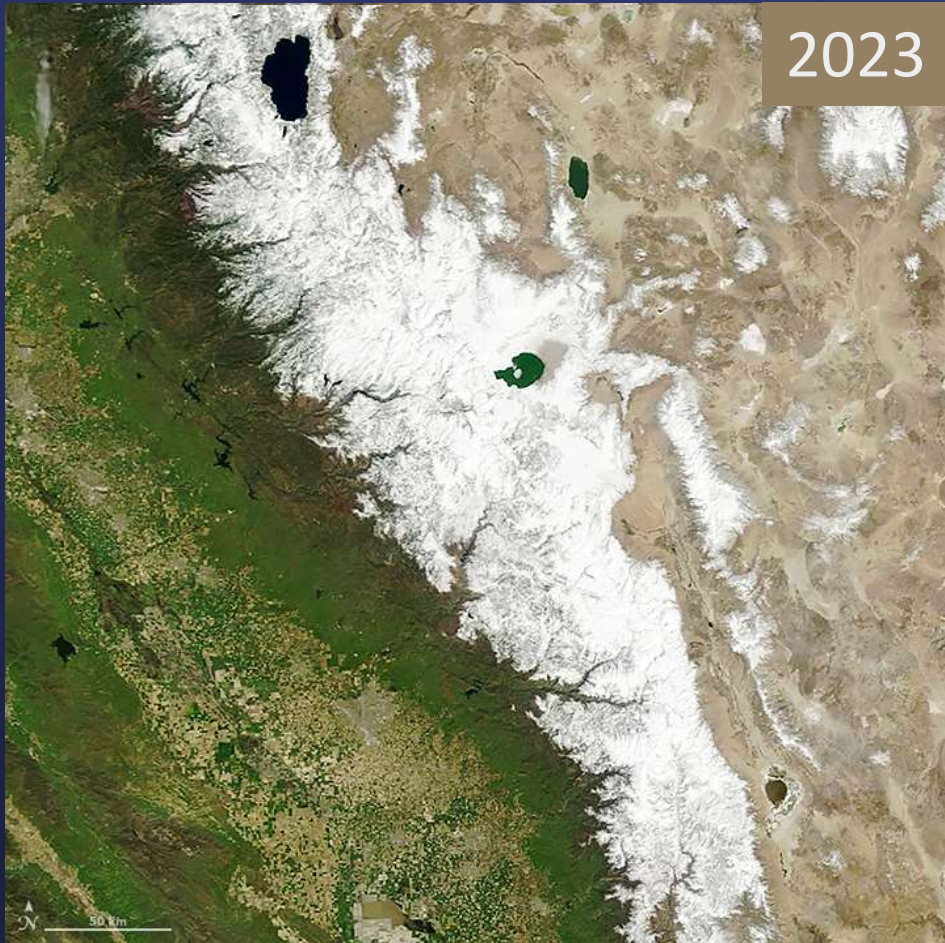


Near-Record
Breaking Snowpack

Over 30
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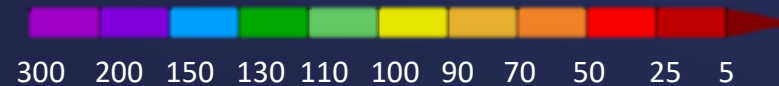
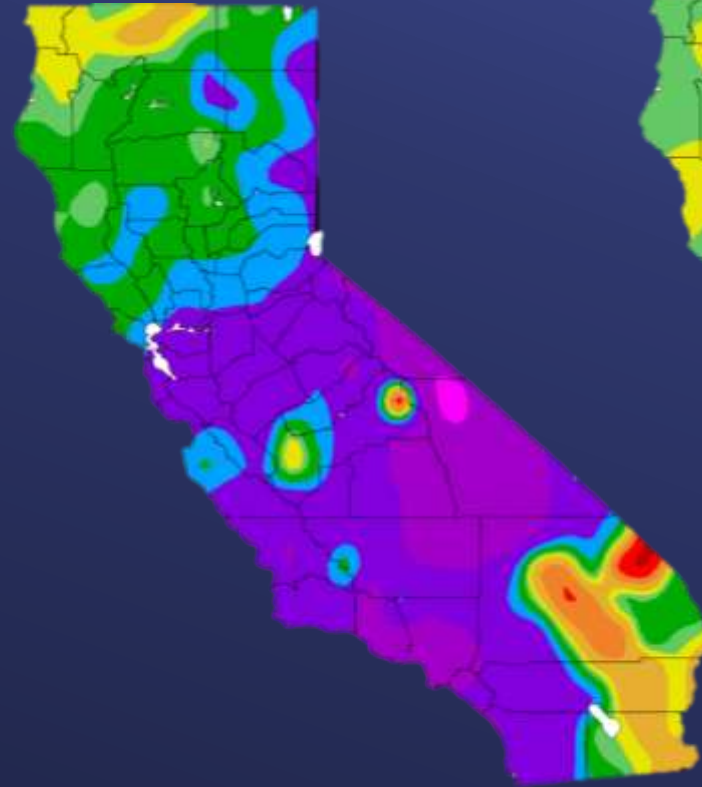
Allocation
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Reservoirs Improve

Reversal in Drought
Conditions

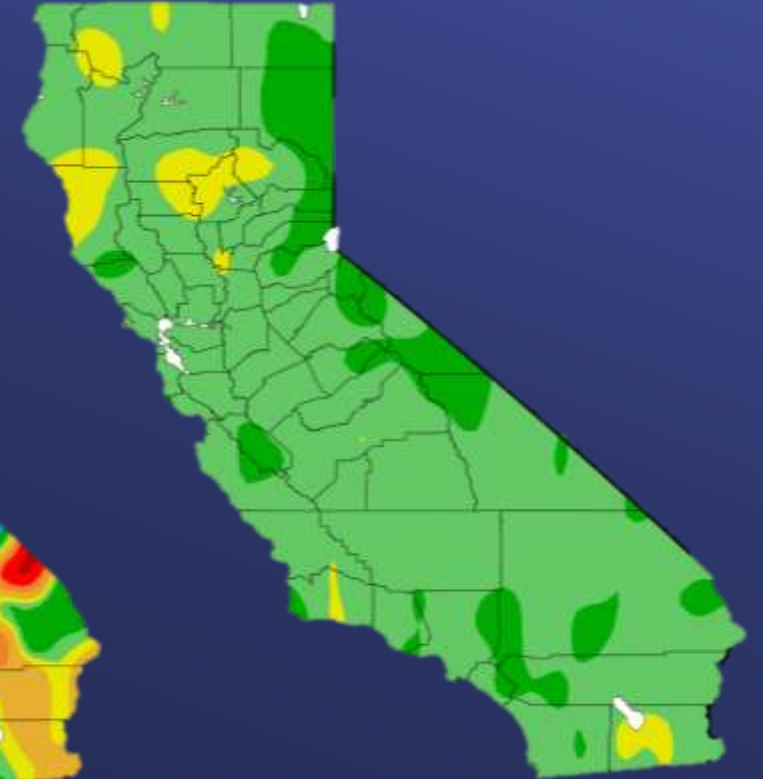


Credit: NASA Earth Observatory

% of Normal
Precipitation



Departure from Normal
Temperature (°F)



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Allocation
Climbs to 100% as
Reservoirs Improve

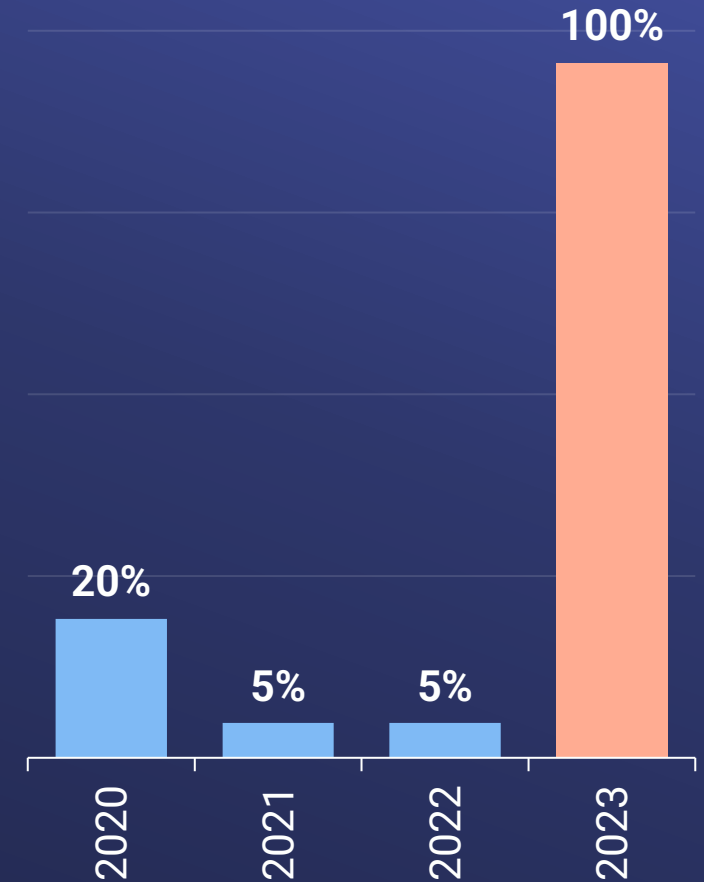
Over 30
Atmospheric Rivers
Hit California

Near-Record
Breaking Snowpack

Reversal in Drought
Conditions

State Water Project to Further Increase Water Supply Allocation to 100%

Published: Apr 20, 2023



Allocation
Climbs to 100% as
Reservoirs Improve

Over 30
Atmospheric Rivers
Hit California

Near-Record
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Reversal in Drought
Conditions

Lake Oroville



December 2022
30% Full



March 2023
75% Full



June 2023
100% Full

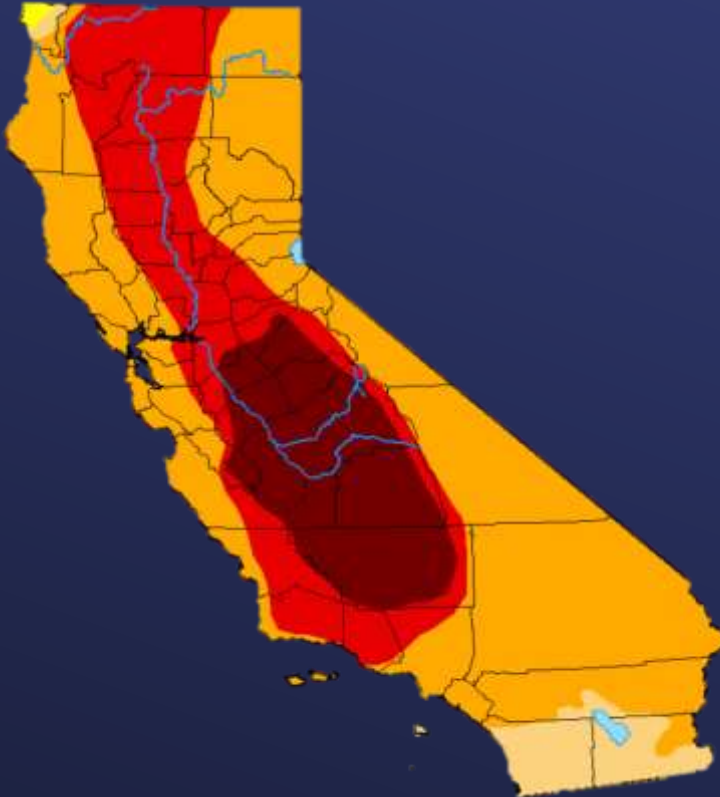
Reversal in Drought
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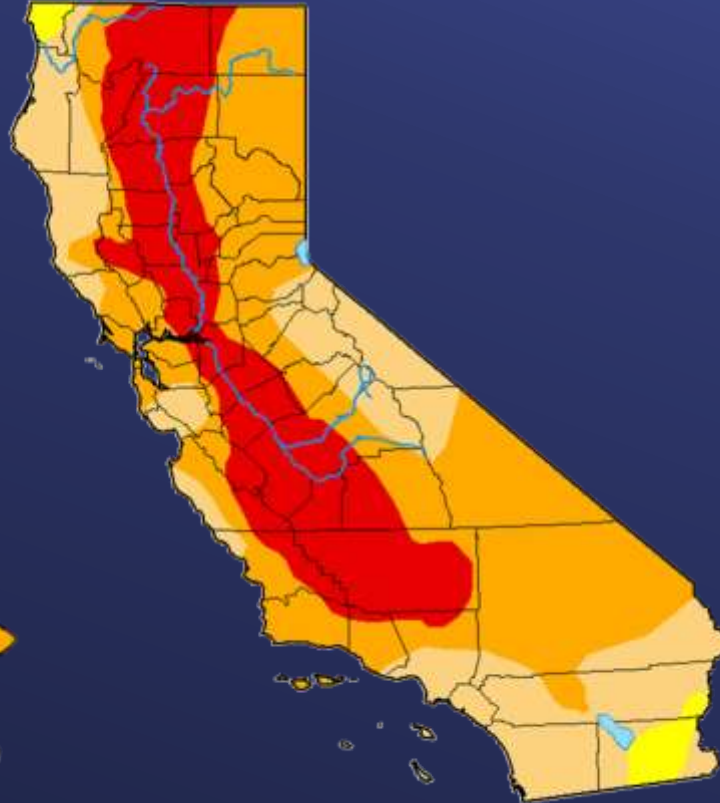
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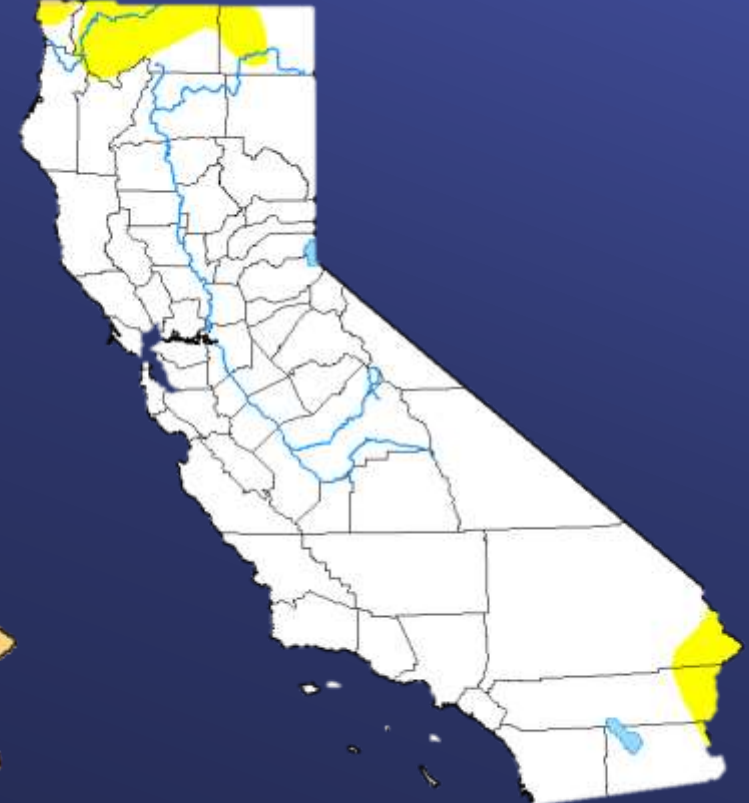
October 4, 2022



January 3, 2023



September 26, 2023



Intensity



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Colorado River

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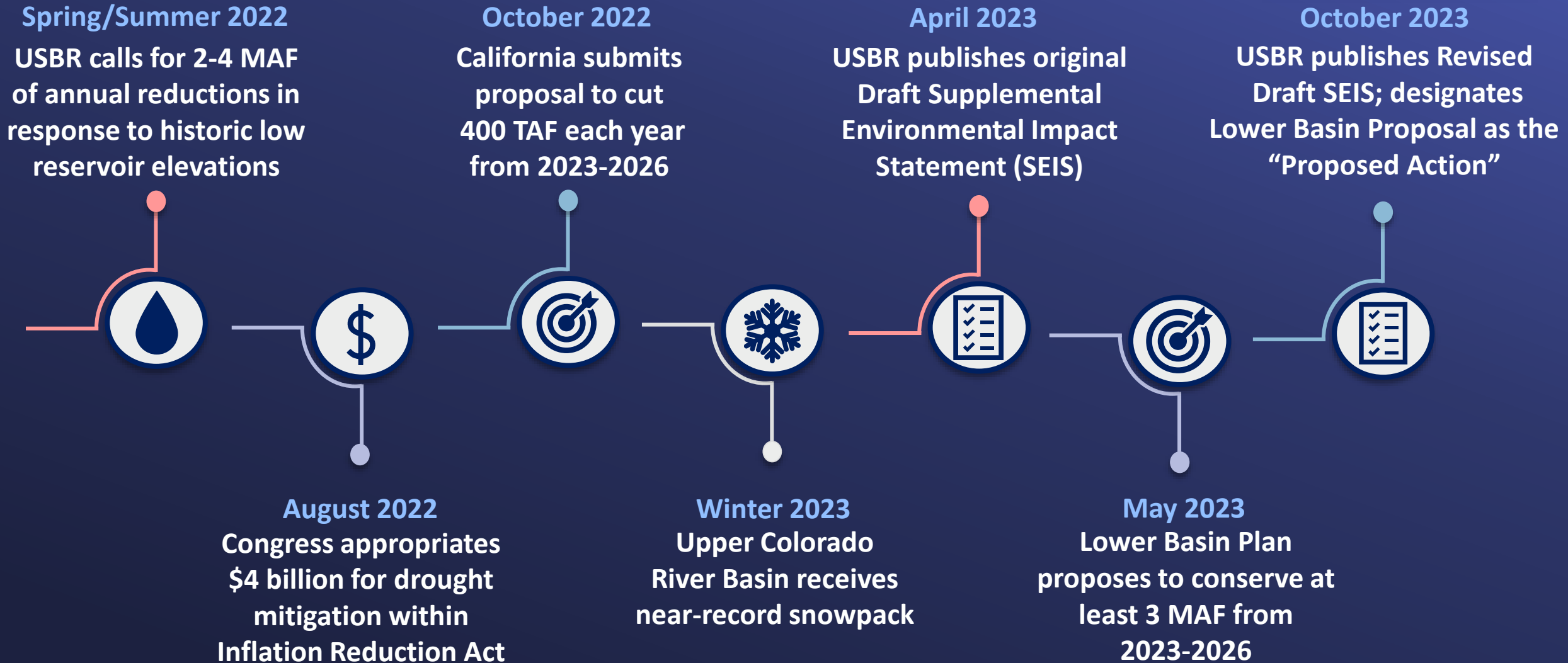
Water Year Highlights: Colorado River

Conditions &
Negotiations

Significant Gains in
Lake Mead &
Lake Powell

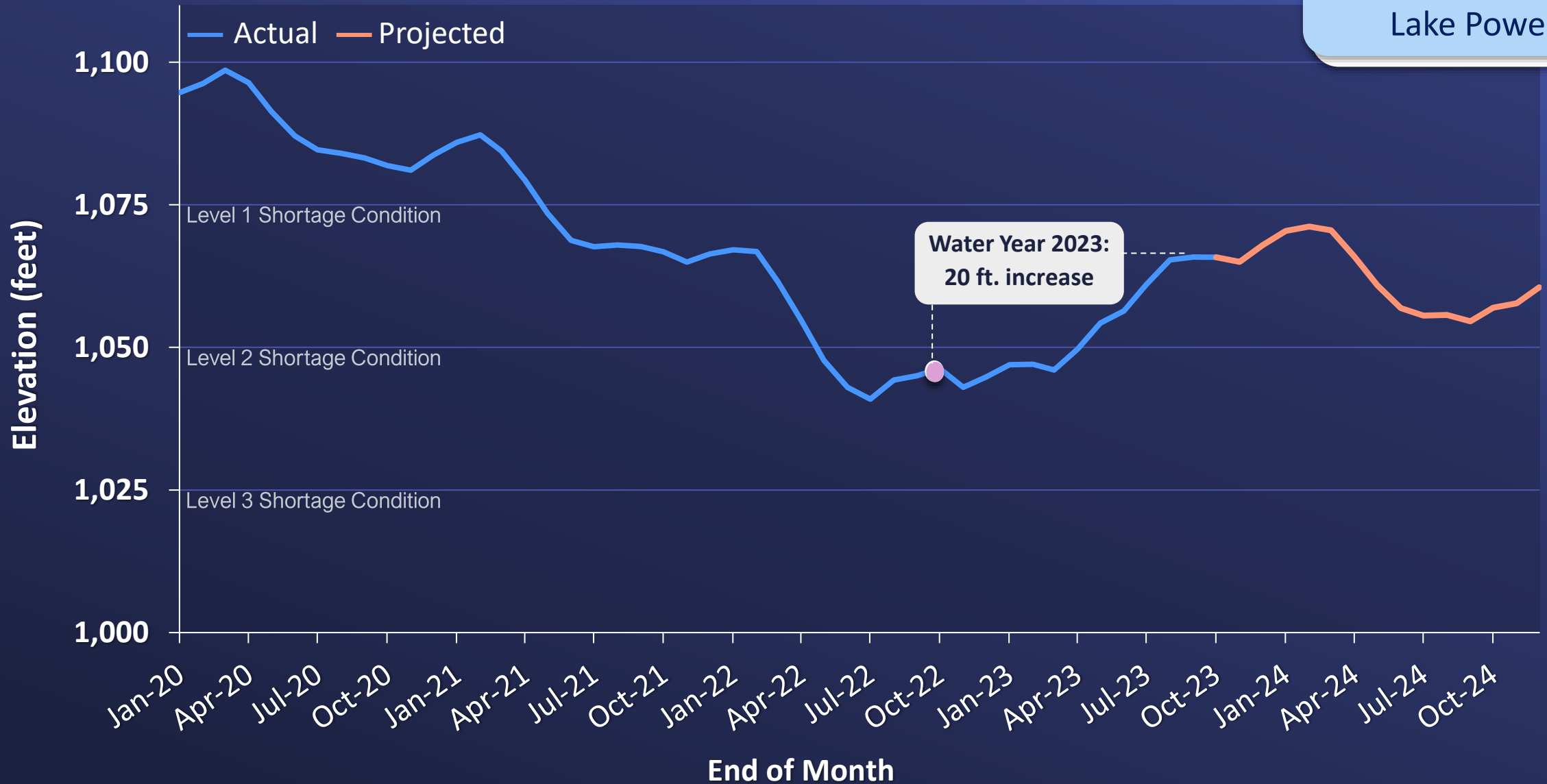
USBR Declares
Level 1 Shortage
for CY 2024

Conditions & Negotiations



Lake Mead

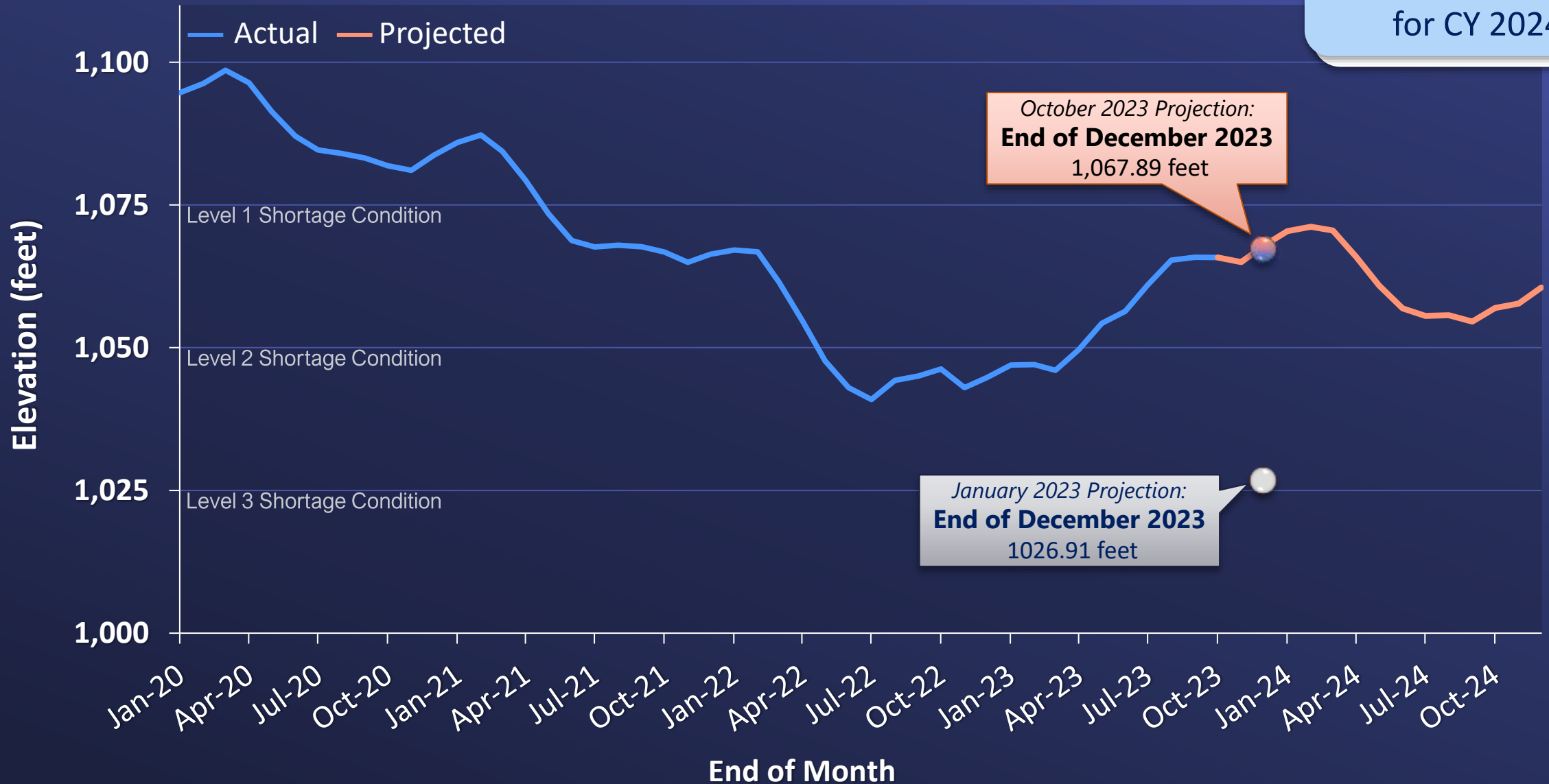
Significant Gains in
Lake Mead &
Lake Powell



Source: USBR's October 2023 24-Month study

Lake Mead

USBR Declares
Level 1 Shortage
for CY 2024



Source: USBR's October 2023 24-Month study

An aerial photograph of a large, deep blue reservoir. A long, white truss bridge spans the width of the reservoir in the middle ground. The surrounding landscape consists of rolling hills and mountains covered in dense green forest. The water in the foreground is a darker, teal color, while the water further back is a lighter, vibrant blue. The sky is clear and blue.

Water Supply & Drought Management

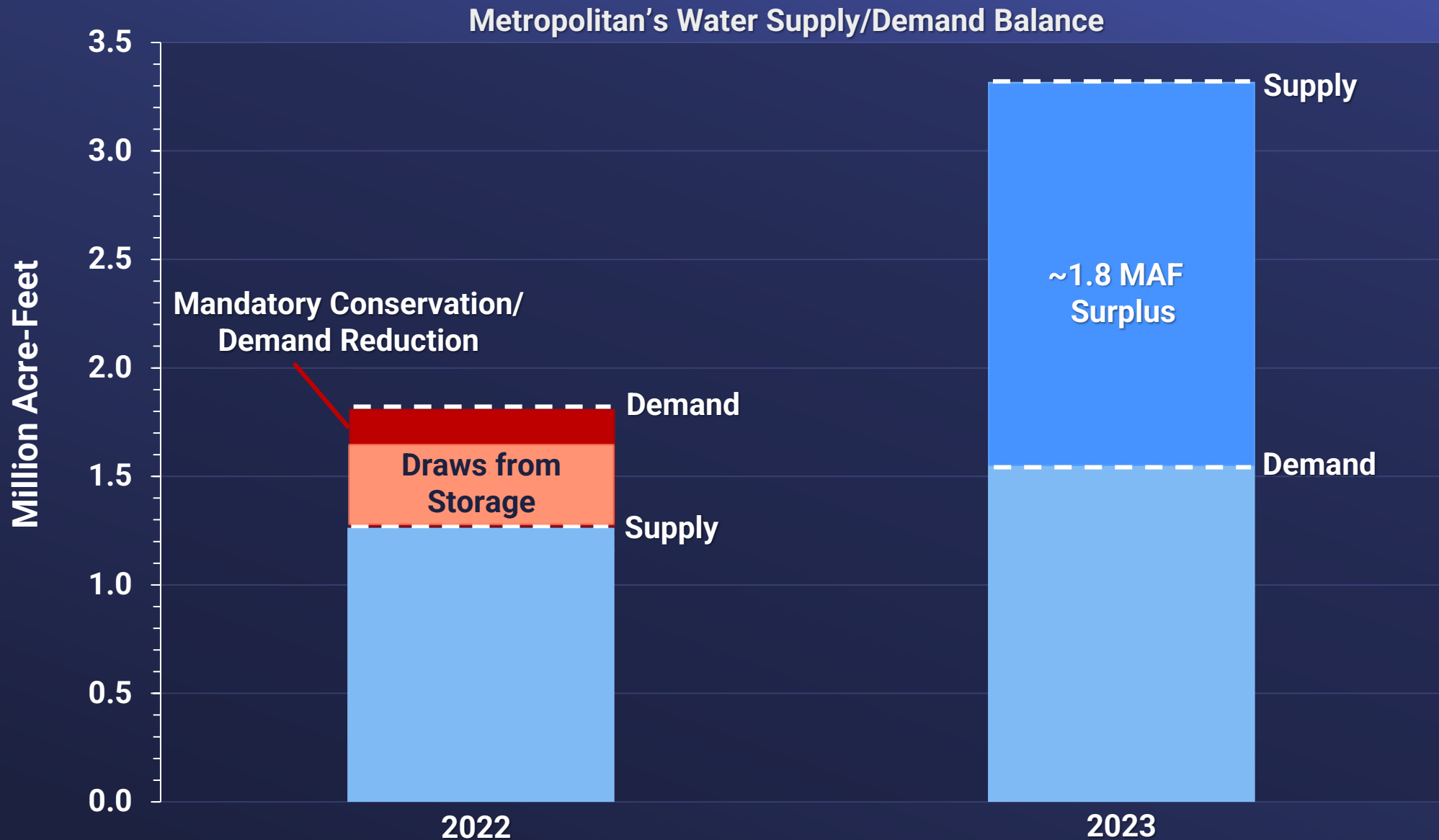
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Credit: DWR

The Tale of Two Years: Drought & Abundance



Metropolitan's 2023 Storage Actions: ~1.2 MAF Increase



Notes:

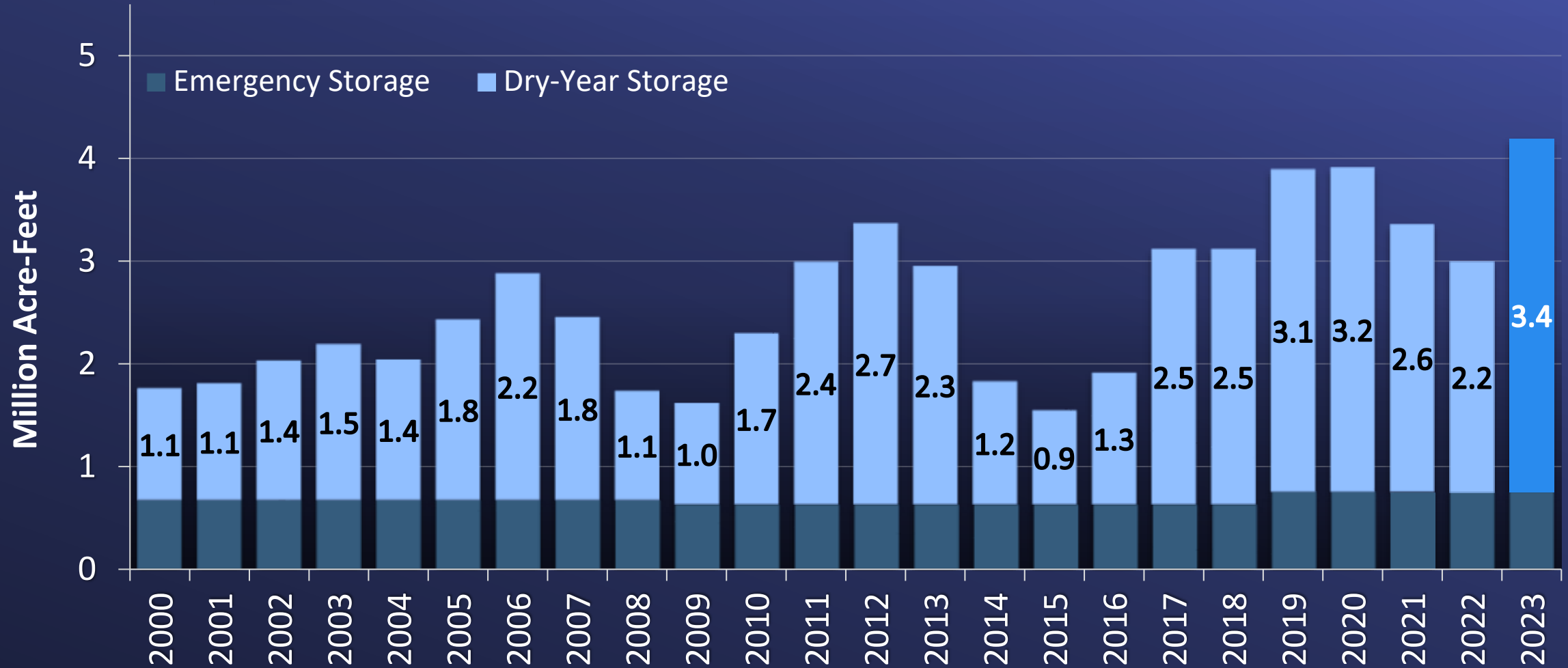
- 1) Dashed lines indicate 2023 starting storage balances.
- 2) Ending storage balances are projections (as of November 1, 2023) & will vary based on actual conditions.
- 3) In-region storage includes emergency storage.
- 4) Storage buckets are not drawn to scale.

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Record-High Storage Projection for Metropolitan End-of-Year Balances



Note:

2023 end-of-year balance is preliminary as they are subject to DWR adjustments and USBR final accounting.



Looking Ahead to 2024

November 13, 2023

Credit: DWR

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Seasonal Precipitation Outlook
Valid: Dec-Jan-Feb 2023-24
Issued: October 19, 2023

Seasonal Temperature Outlook
Valid: Dec-Jan-Feb 2023-24
Issued: October 19, 2023

Probability (Percent Chance)

Leaning Above	Equal Chances	Leaning Below
33-40%	33-40%	33-40%
40-50%	40-50%	40-50%
50-60%	50-60%	50-60%
60-70%	60-70%	60-70%
70-80%	70-80%	70-80%
80-90%	80-90%	80-90%
90-100%	90-100%	90-100%

Planning for 2024

- Initial 2024 SWP Table A Allocation will be announced on December 1st, 2023
- Metropolitan submitted 2024 SWP Water Order in September 2023
- Projected end-of-year storage levels at San Luis Reservoir will impact initial 2024 SWP Table A Allocation
- December WSDM written report will include projected supply and demand gaps for 2024-2026

