



Water Supply Update

Board of Directors

October 24, 2023

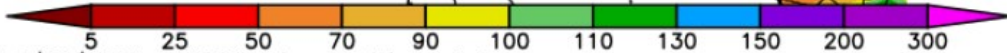
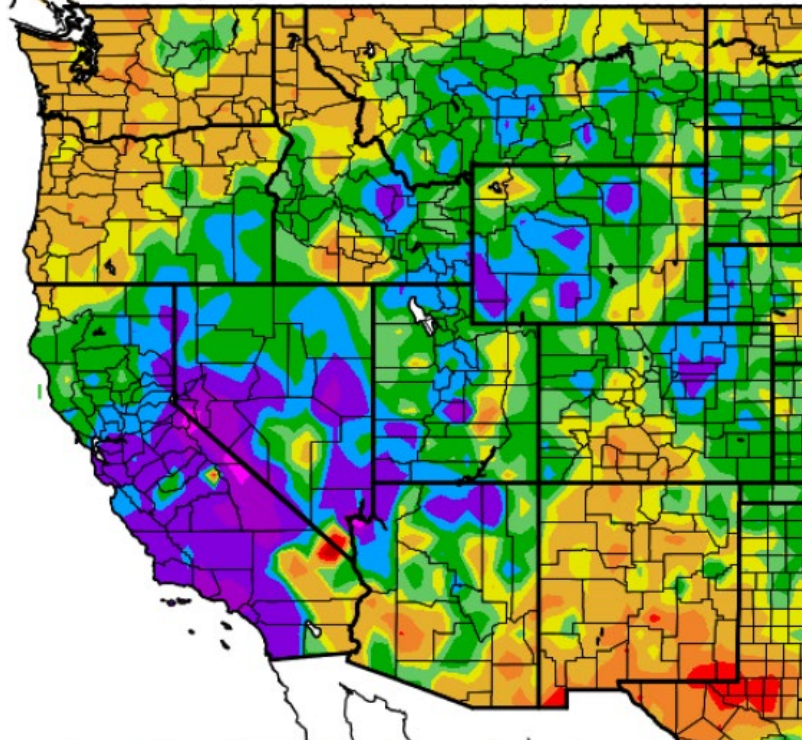


Overview

- Water Year Summary
- Seasonal Forecast
- Water Supply Projection
- Summary

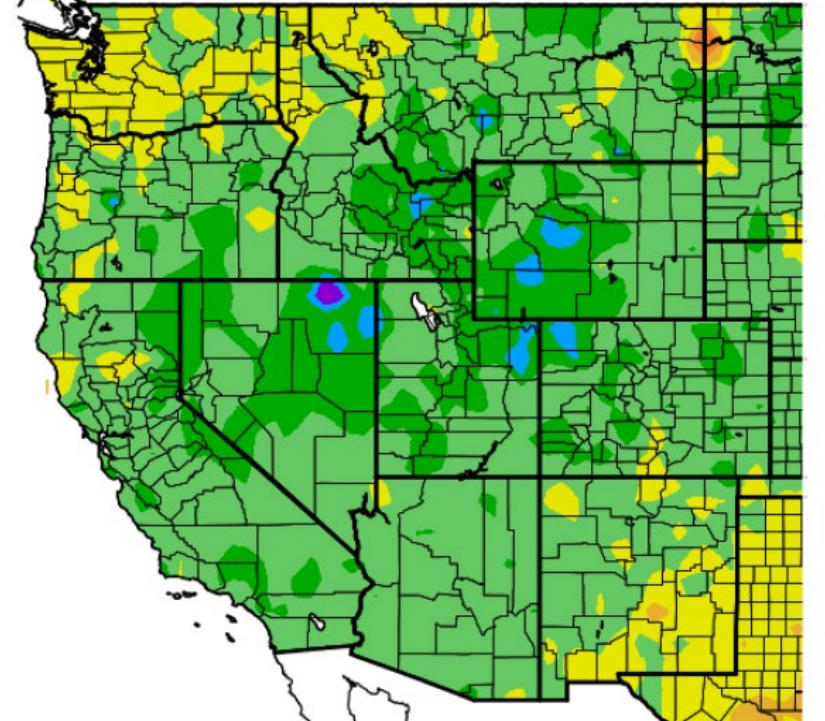
Looking Back on Water Year 2023: Wetter and Cooler

Percent of Average Precipitation (%)
10/1/2022 – 9/27/2023



Generated 9/28/2023 at WRCC using provisional data.
NOAA Regional Climate Centers

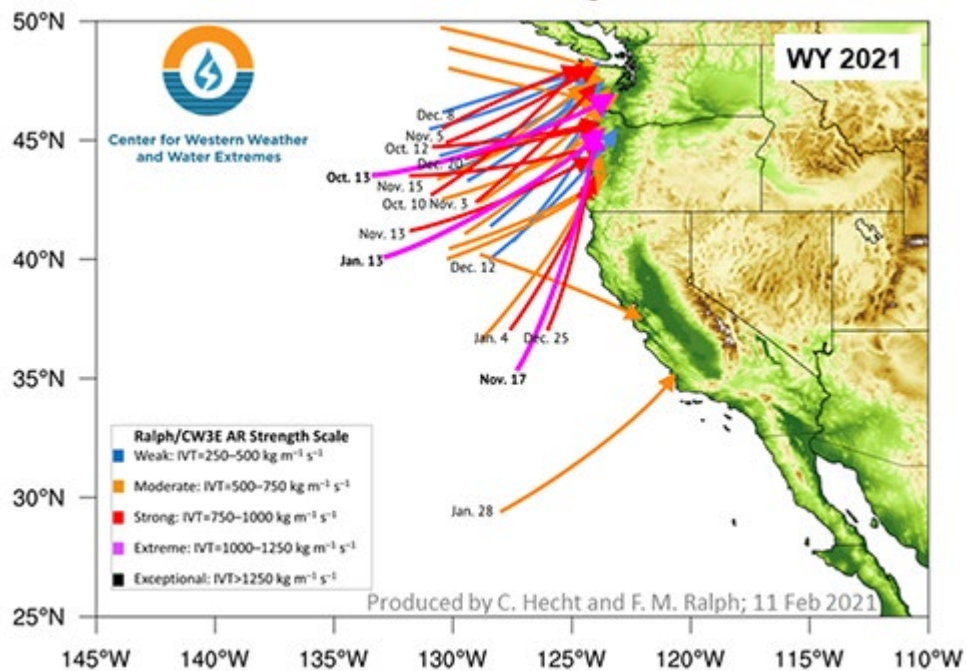
Ave. Temperature dep from Ave (deg F)
10/1/2022 – 9/27/2023



Generated 9/28/2023 at WRCC using provisional data.
NOAA Regional Climate Centers

Water Year 2023: Atmospheric Rivers

California received about half of annual precipitation between December 26th – January 19th



Land-falling Atmospheric Rivers

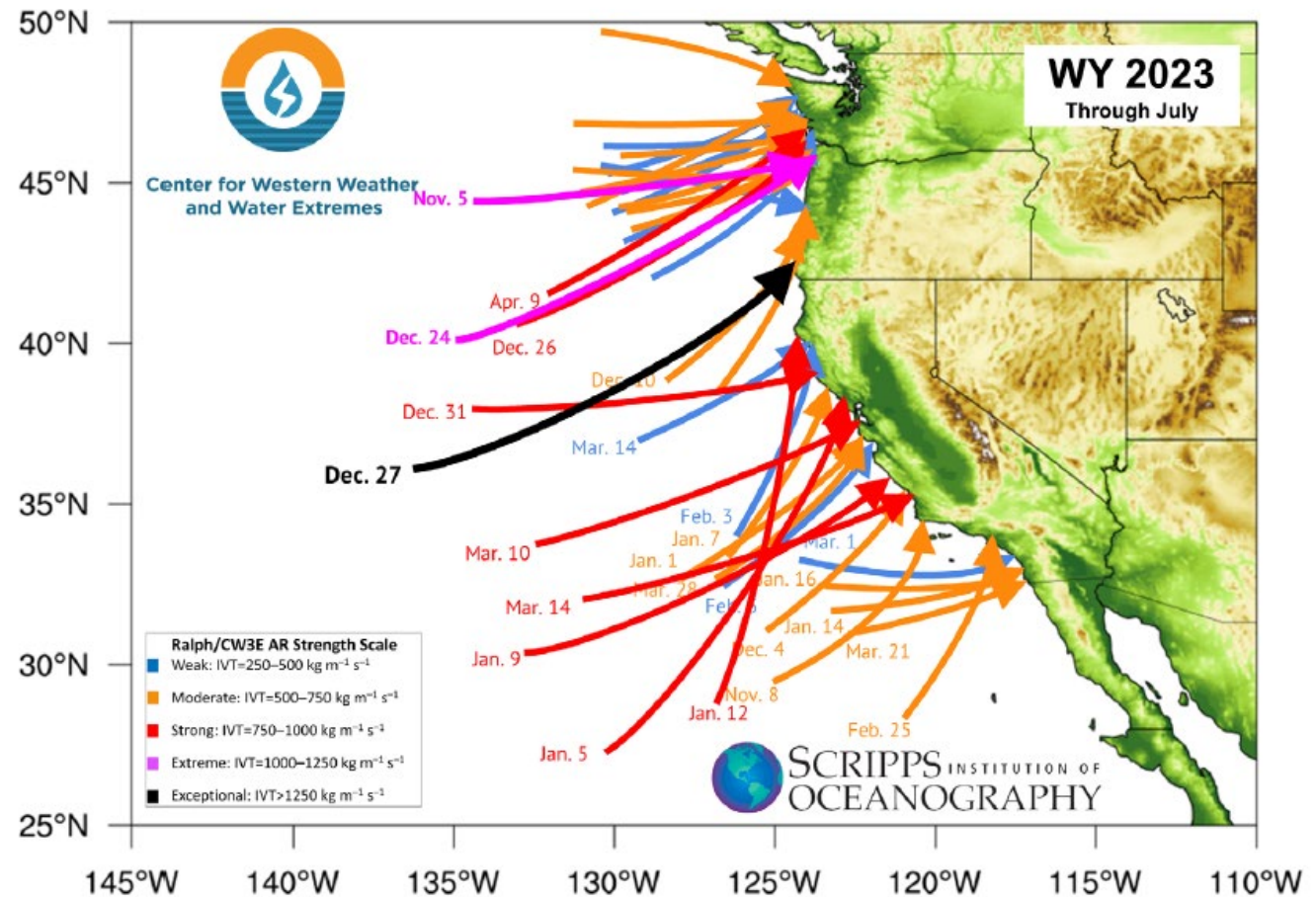


Figure credit: University of California, San Diego

Water Year 2023: Water Supply Conditions Improved State-wide

Lake Oroville - State Water Project Largest Reservoir

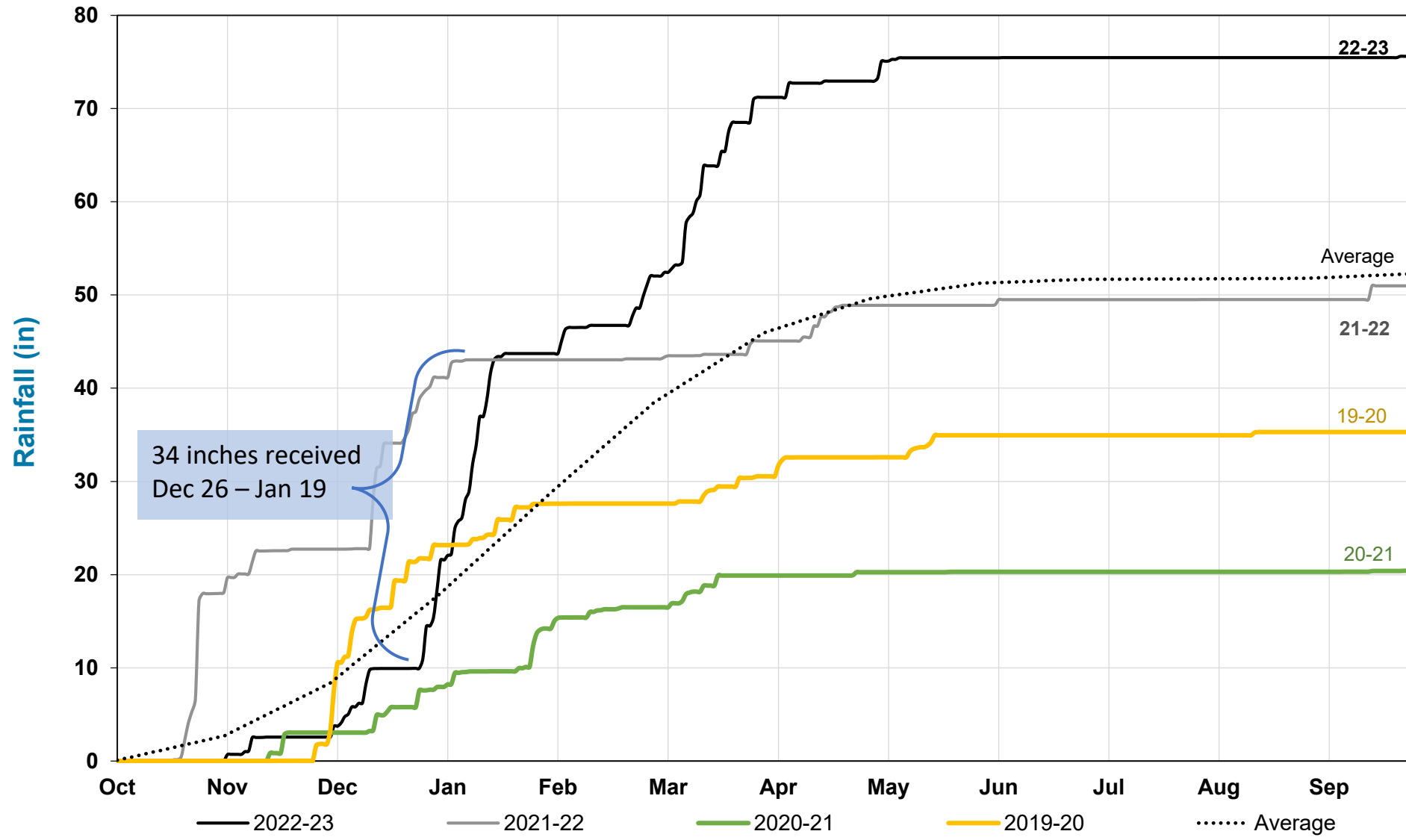


December 21, 2022



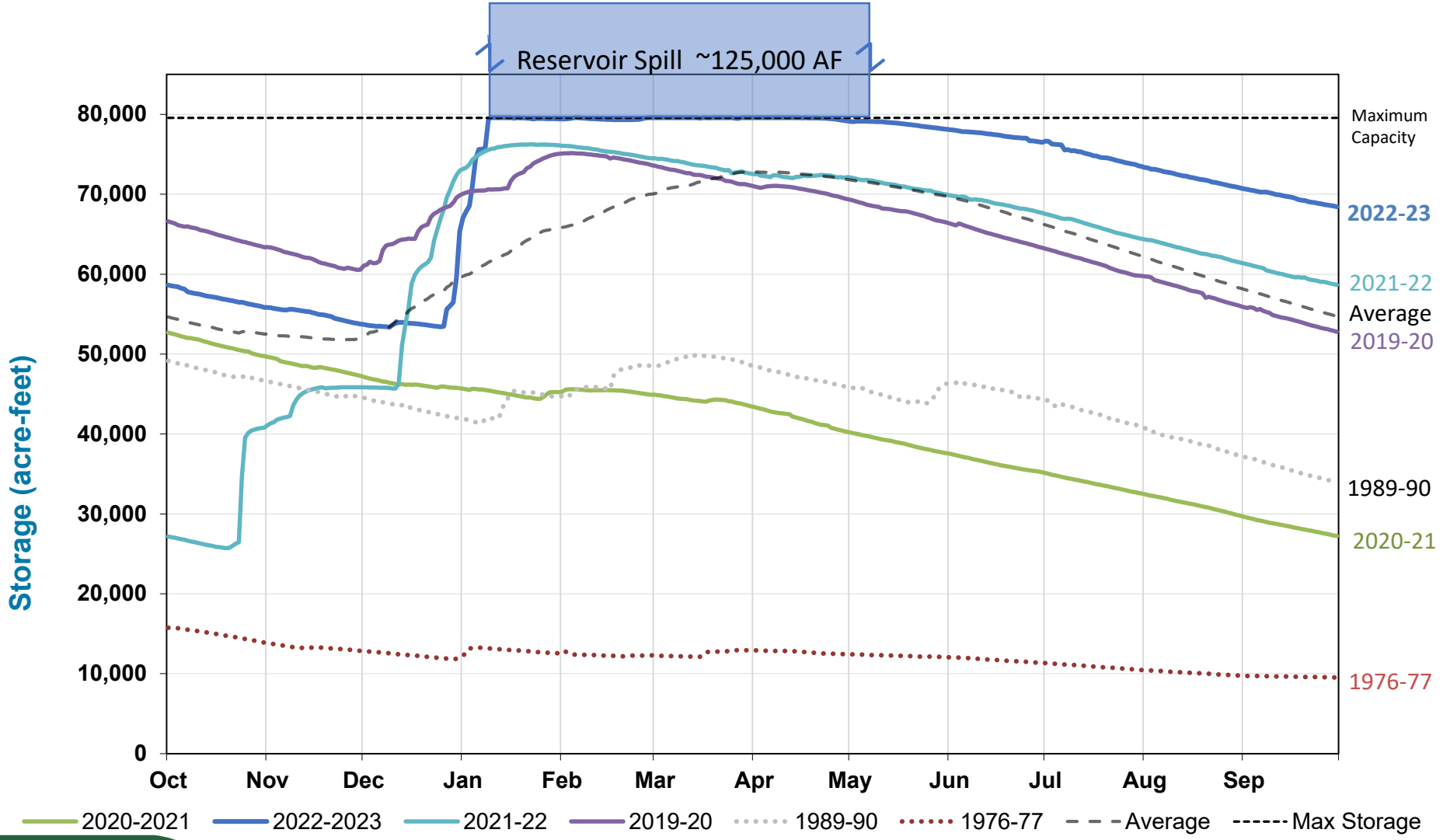
June 12, 2023

Water Year 2023: MMWD Cumulative Rainfall (Lake Lagunitas)

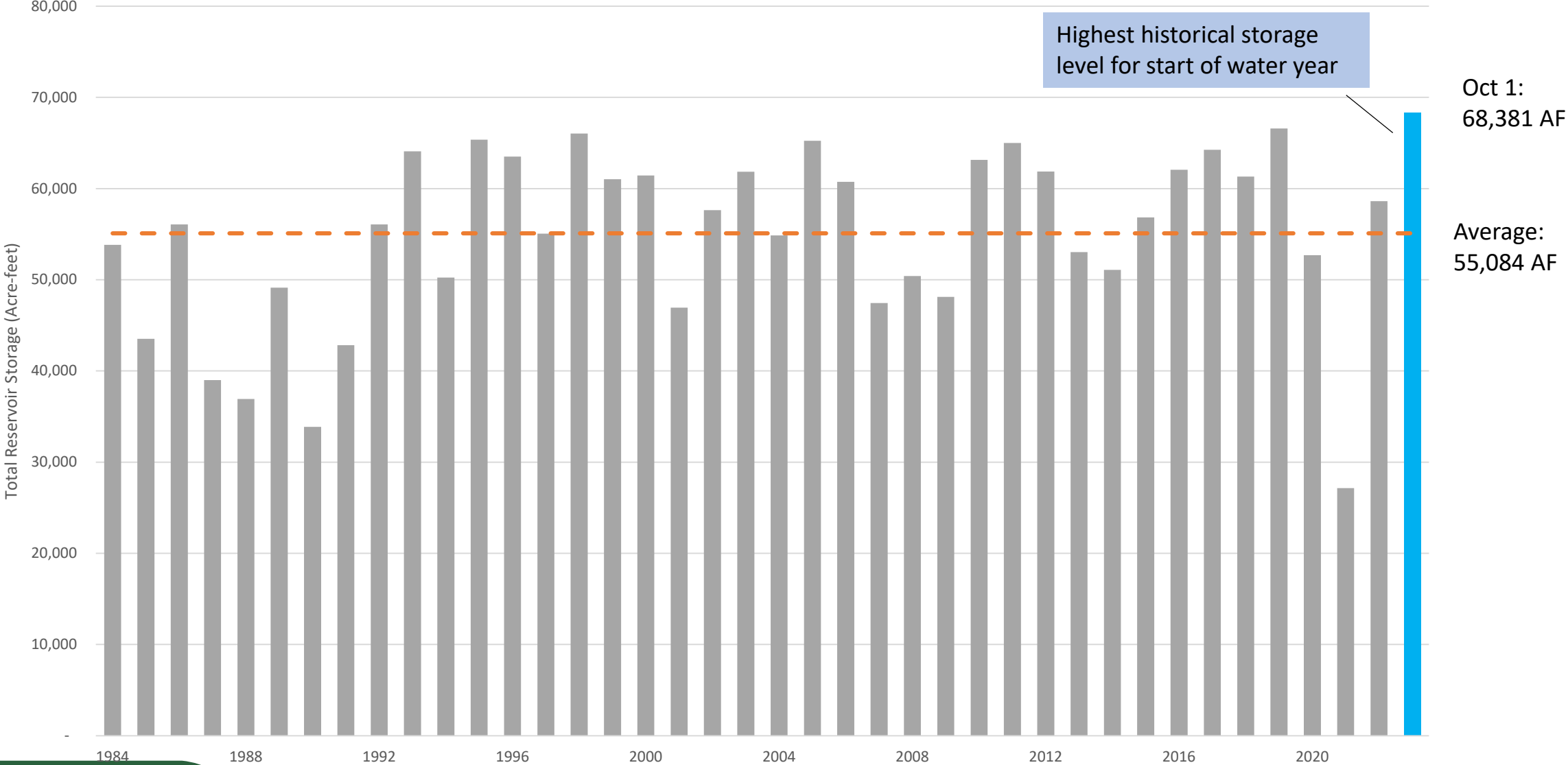


Total Rainfall:
75.6 inches
145% of average

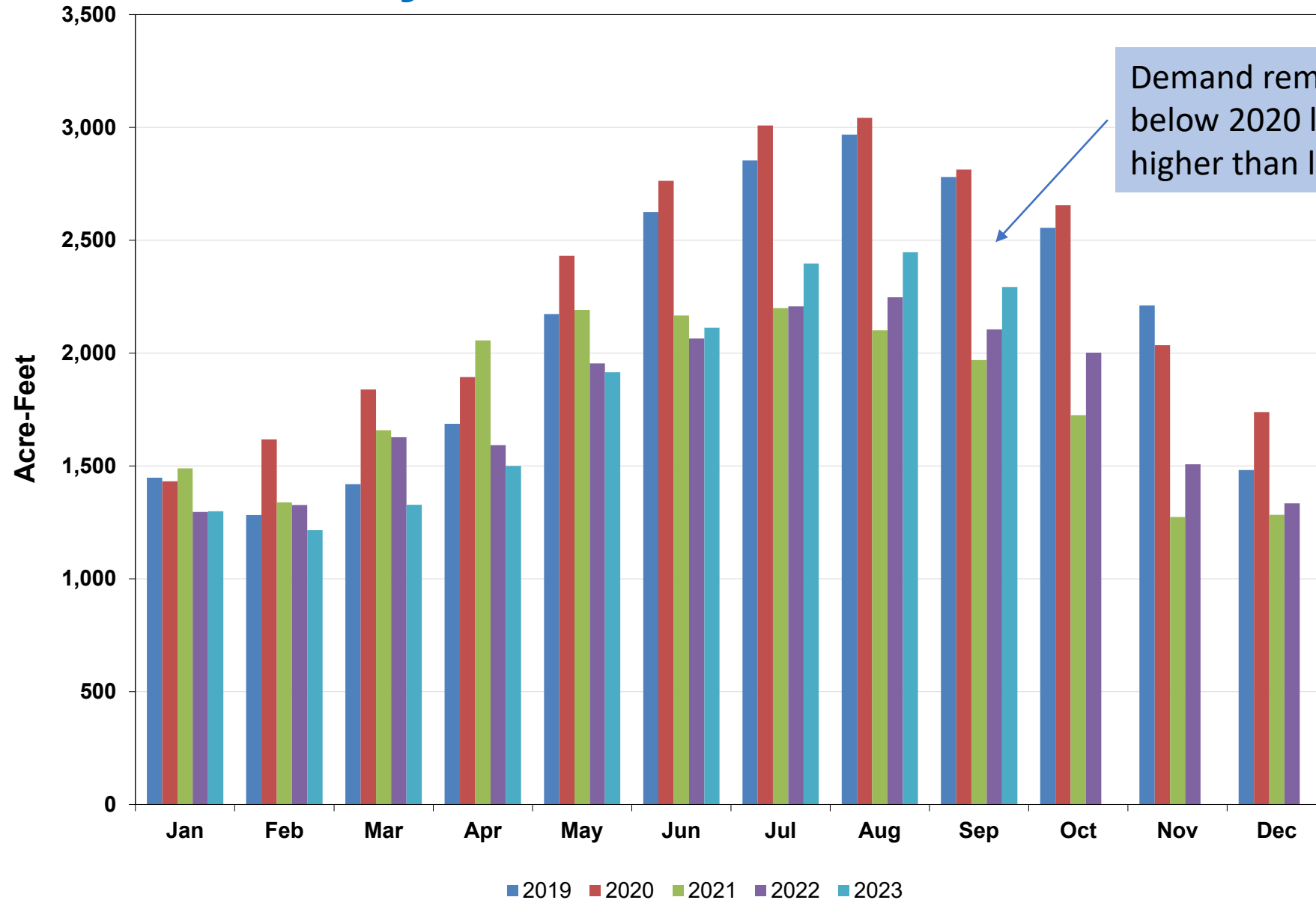
Water Year 2023: MMWD Total Reservoir Storage



Total Reservoir Storage: Start of Water Year 2024



Monthly Potable Water Production

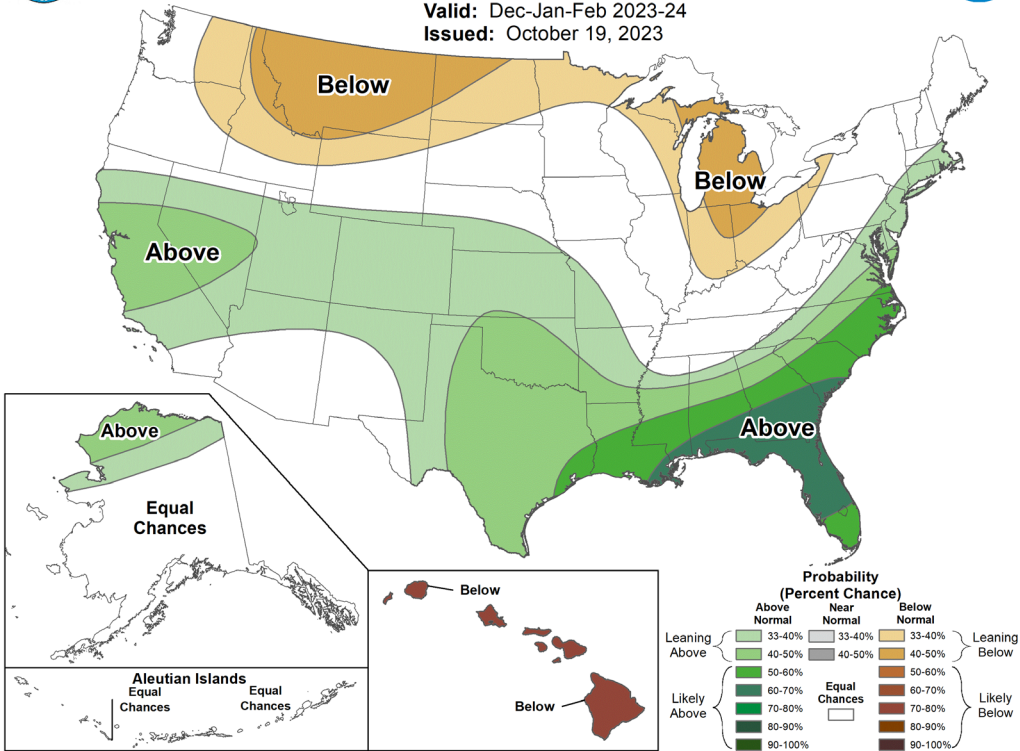


Seasonal Forecast: NOAA



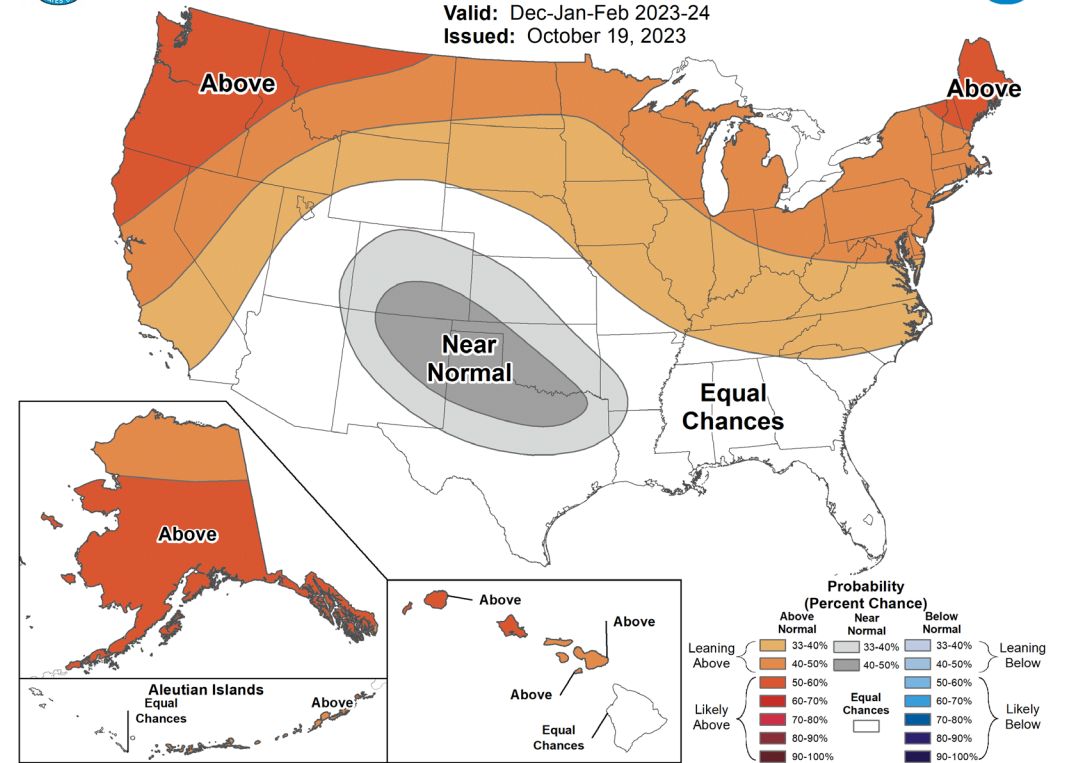
Seasonal Precipitation Outlook

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



Seasonal Temperature Outlook

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



Precipitation Outcomes with El Niño

- Historical El Niños have produced wetter than average years across the state
- Southern California is typically impacted greater than Northern California
- Marin historically receives above average precipitation

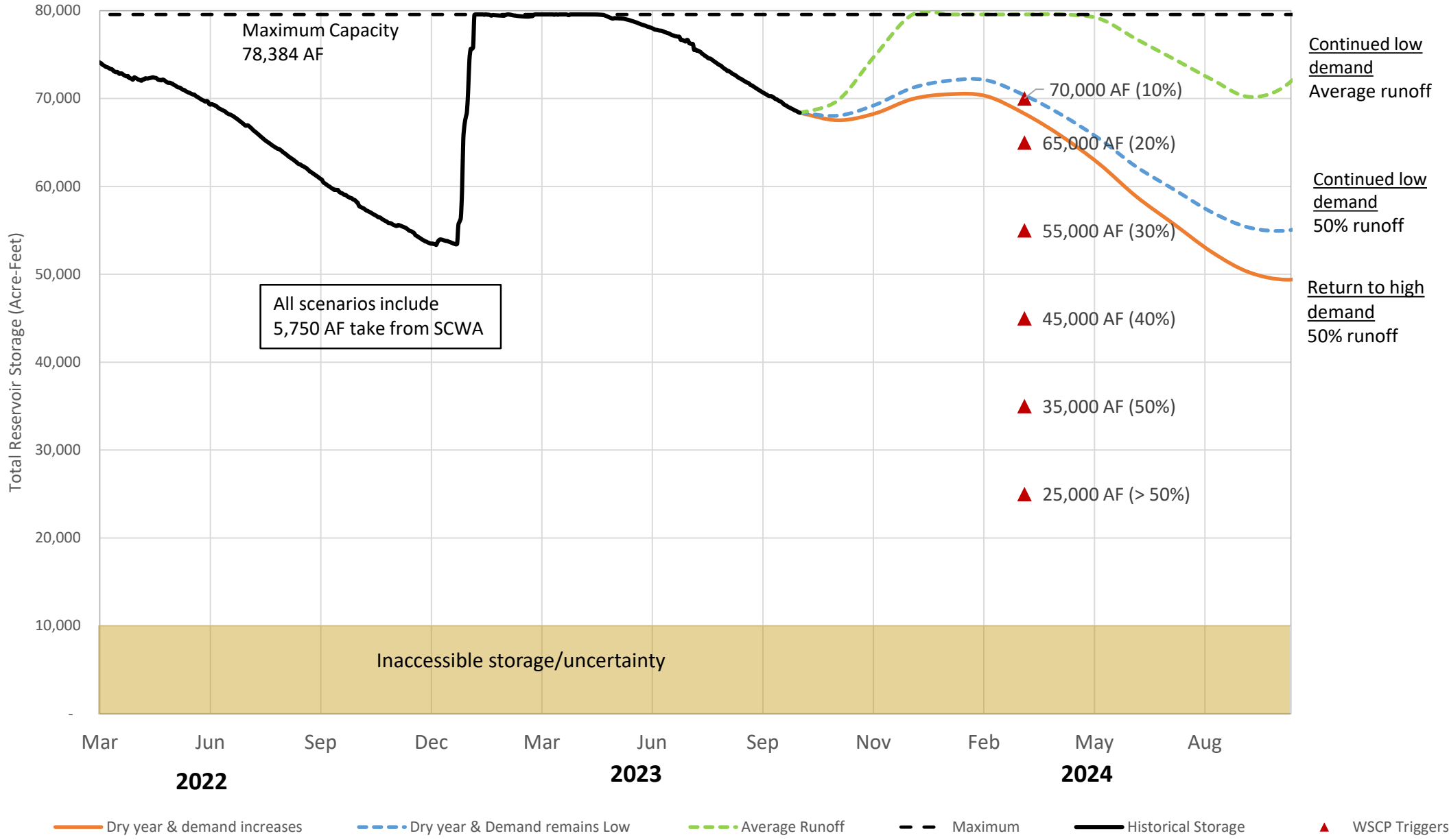
| Type | Average Annual Rainfall |
|-----------|-------------------------|
| All years | 52.0 inches |
| La Niña | 50.8 inches |
| El Niño | 57.0 inches |



California precipitation during strong El Niño years compared to average

Credit: Jack Lee, SF Chronicle; Jan Null Golden Gate Weather Services

Reservoir Storage Projections



Adapting Operational Strategy for WY 2024

- Current operating strategy – maximize purchase of supplemental water from Sonoma
- The favorable reservoir storage projections support the phased reductions of purchases of supplemental water

| Month | SCWA (Acre-feet) | Reservoirs (Acre-feet) |
|--------------------|---------------------|---------------------------|
| July | 1,131 | 1,267 |
| August | 1,140 | 1,307 |
| September | 1,146 | 1,147 |
| October (to date)* | 804 | 732 |
| Total | 4,221** | 4,453 |

*FY 2024 total through October 22, 2024.

**Minimum take from SCWA for FY 2024 is 5,750 acre-feet

Summary

- Reservoir storage at highest historical level for this time of year
- Expect wet winter due to forecasted El Niño
- Conservation levels remain at 18-20% compared to 2020
- Adjust operational strategy for purchase of supplemental supply