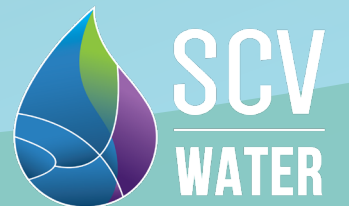




# STATUS OF WATER SUPPLIES

Water Resources and Watershed Committee  
April 10, 2024

4/10/2024 | 1





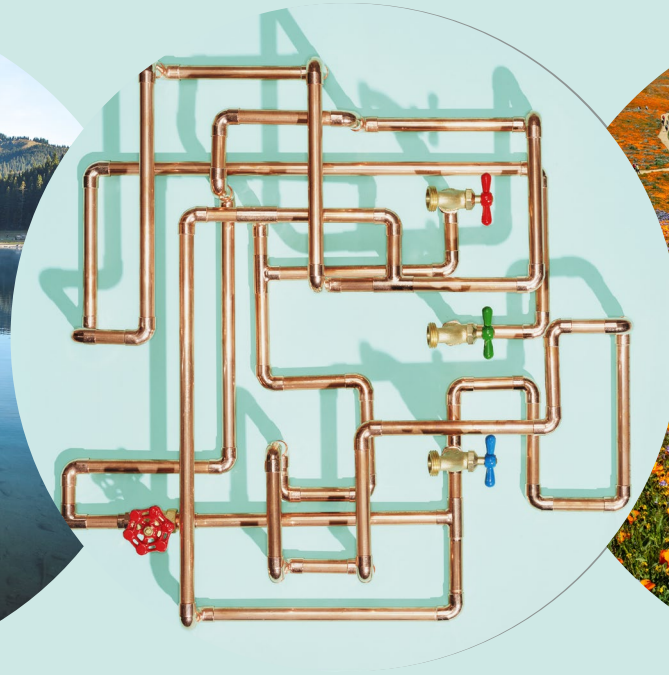
## Weather

Drought  
Rain  
Snow  
Forecast



## Reservoirs

Oroville  
San Luis



## Operations

Plan Updates



## Questions

# SEASONAL DROUGHT FORECAST

March-June  
- No change in drought status anticipated

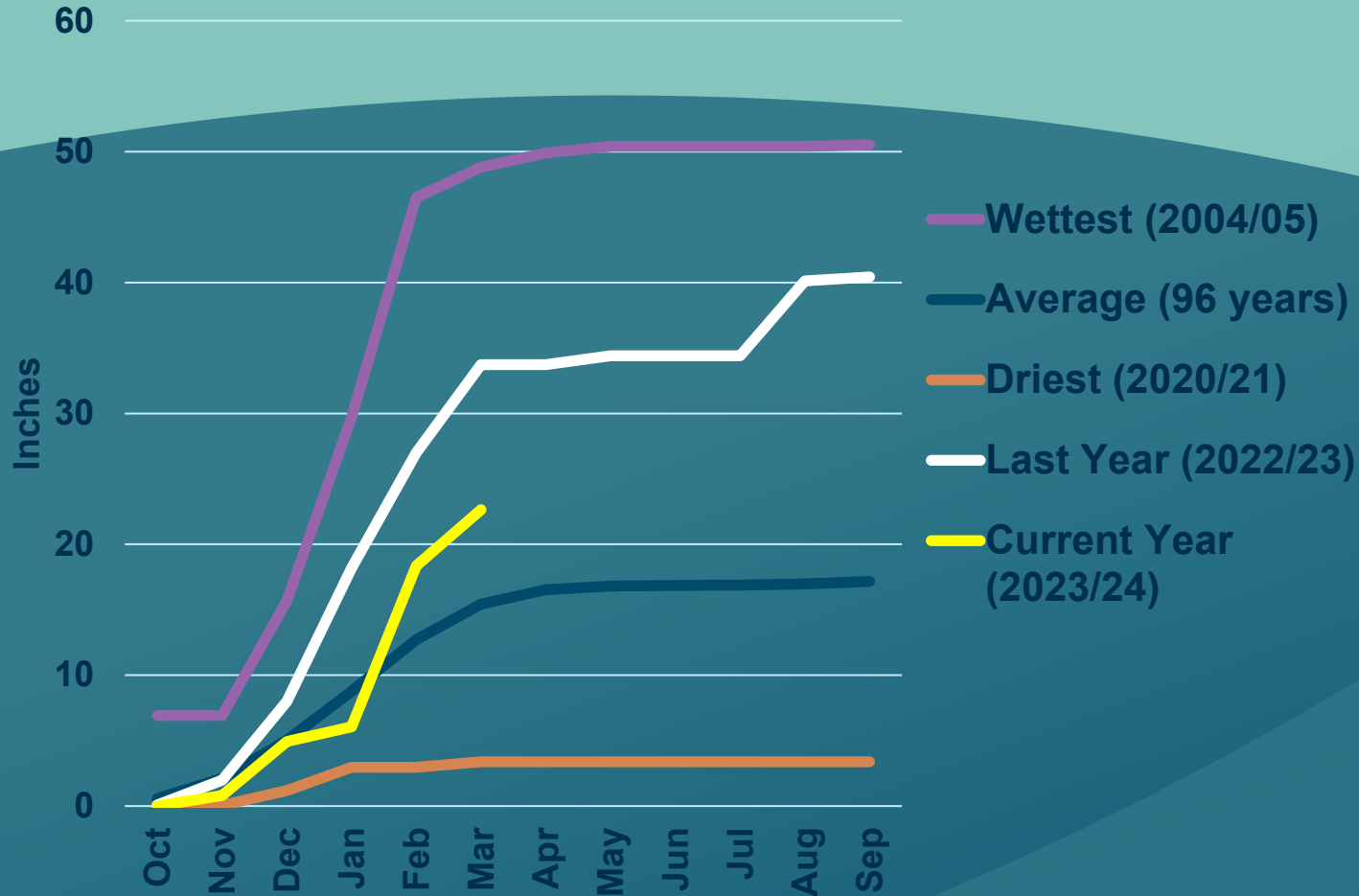


CPC Drought Outlook



Seasonal Drought Outlook Created: 2024/03/21 Valid: 2024/03/21 - 2024/06/30

## SCV Historical Rainfall



## SCV PRECIPITATION

Historical Average = 17.4"  
30 Year Average = 16.2"

- 22.64" so far in WY 2024
  - 146% of historical average through end of March

# STATEWIDE PRECIPITATION

## Precipitation Statistics (period of record: 1981-current)

### Statewide as of 04/07/2024

Water Year to Date: **21.67"**

% of Average: **107%**

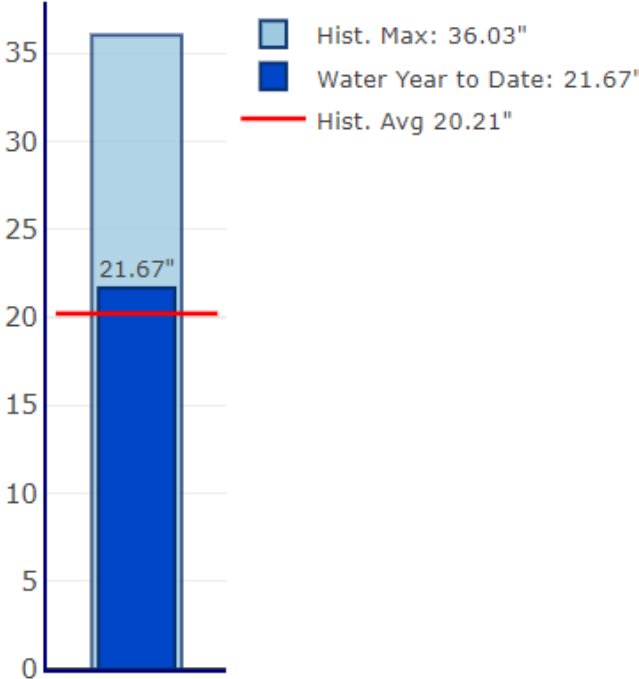
Precipitation % of average for full water year through September 30th: **91%**

### Historical Record to Date:

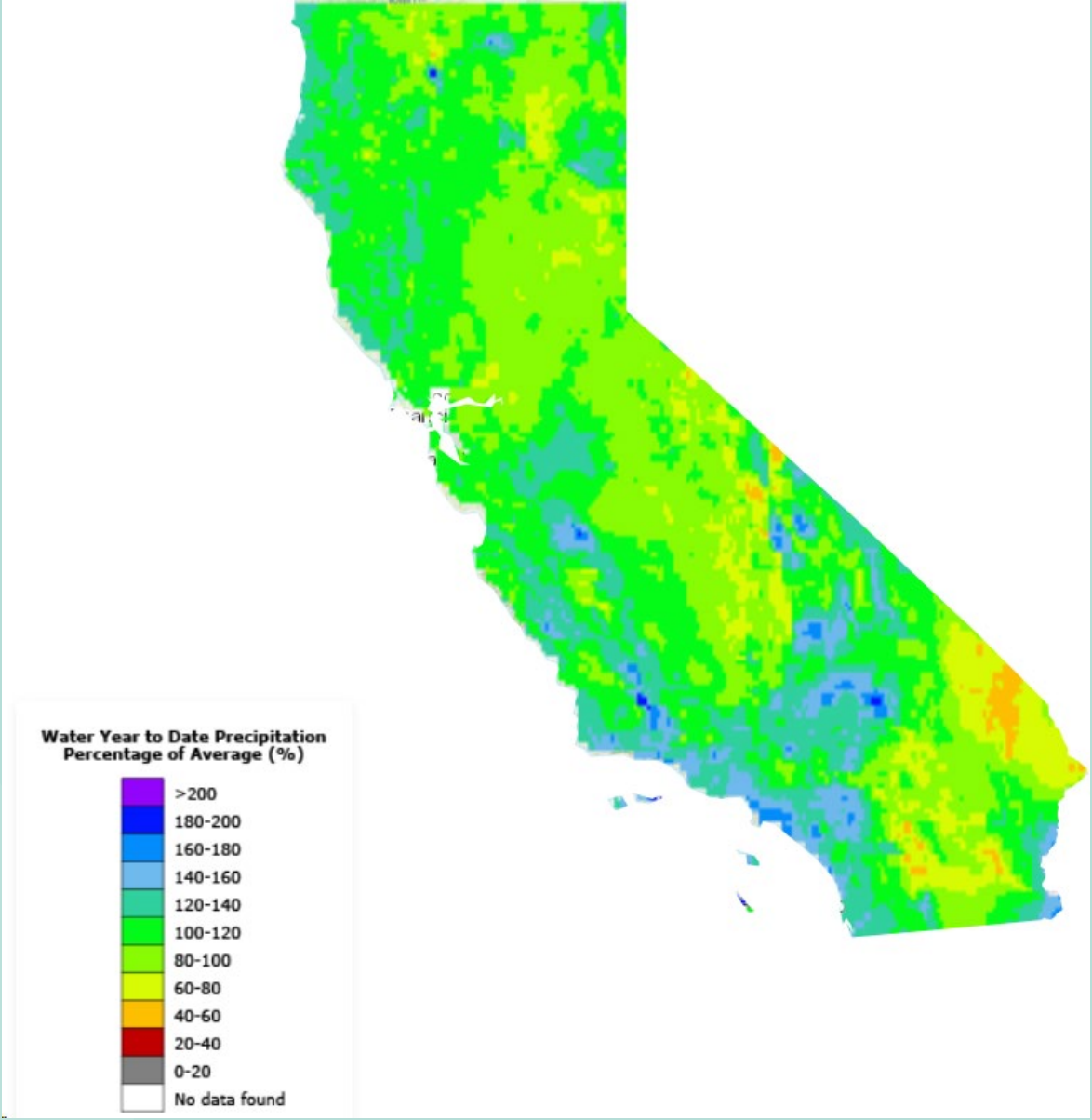
Max: **36.03"**

Mean: **20.21"**

Min: **10.65"**



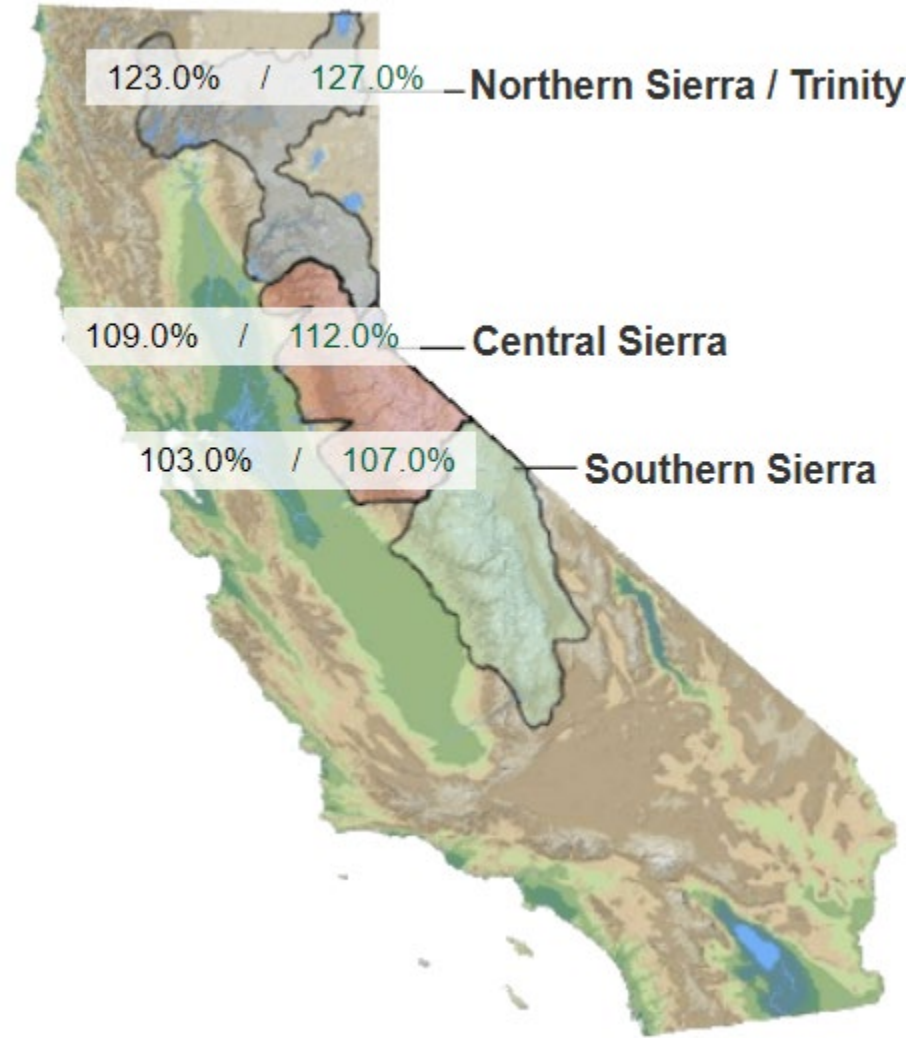
Precipitation for water year to date is 107% of historical average



Source: California Water Watch - <https://cww.water.ca.gov/>

Data For: 08-Apr-2024

% Apr 1 Avg. / % Normal for this Date



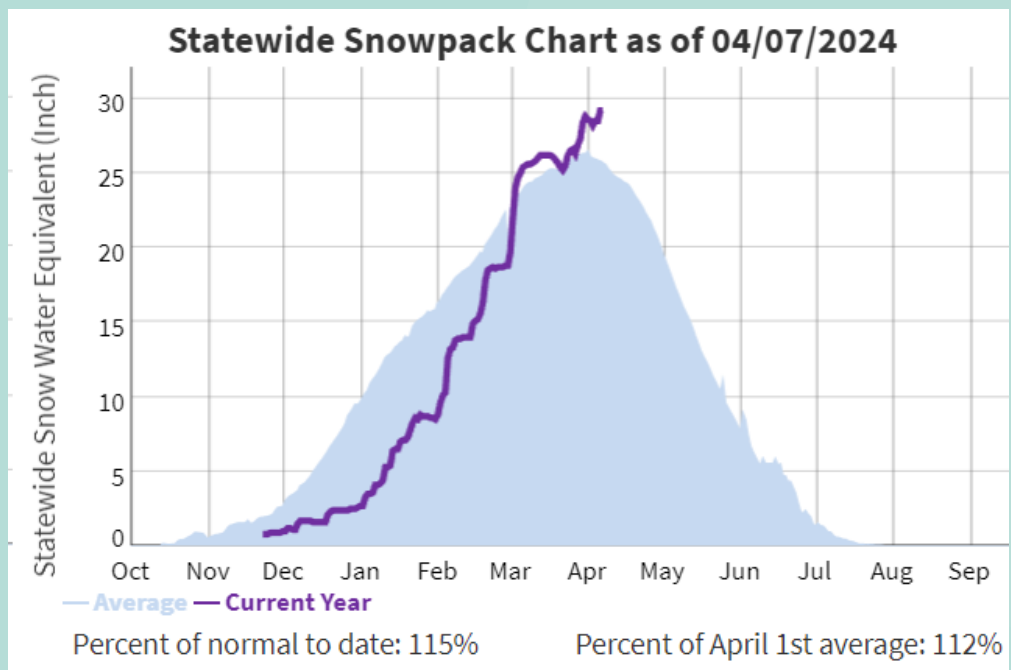
NORTH	
Data For: 08-Apr-2024	
Number of Stations Reporting	25
Average snow water equivalent	35.5"
Percent of April 1 Average	123%
Percent of normal for this date	127%

CENTRAL	
Data For: 08-Apr-2024	
Number of Stations Reporting	48
Average snow water equivalent	29.9"
Percent of April 1 Average	109%
Percent of normal for this date	112%

SOUTH	
Data For: 08-Apr-2024	
Number of Stations Reporting	26
Average snow water equivalent	22.2"
Percent of April 1 Average	103%
Percent of normal for this date	107%

STATEWIDE SUMMARY	
Data For: 08-Apr-2024	
Number of Stations Reporting	99
Average snow water equivalent	29.3"
Percent of April 1 Average	112%
Percent of normal for this date	115%

# STATEWIDE SNOWPACK



Source: California Water Watch - <https://cdec.water.ca.gov/snowapp/sweq.action> & <https://cww.water.ca.gov/>

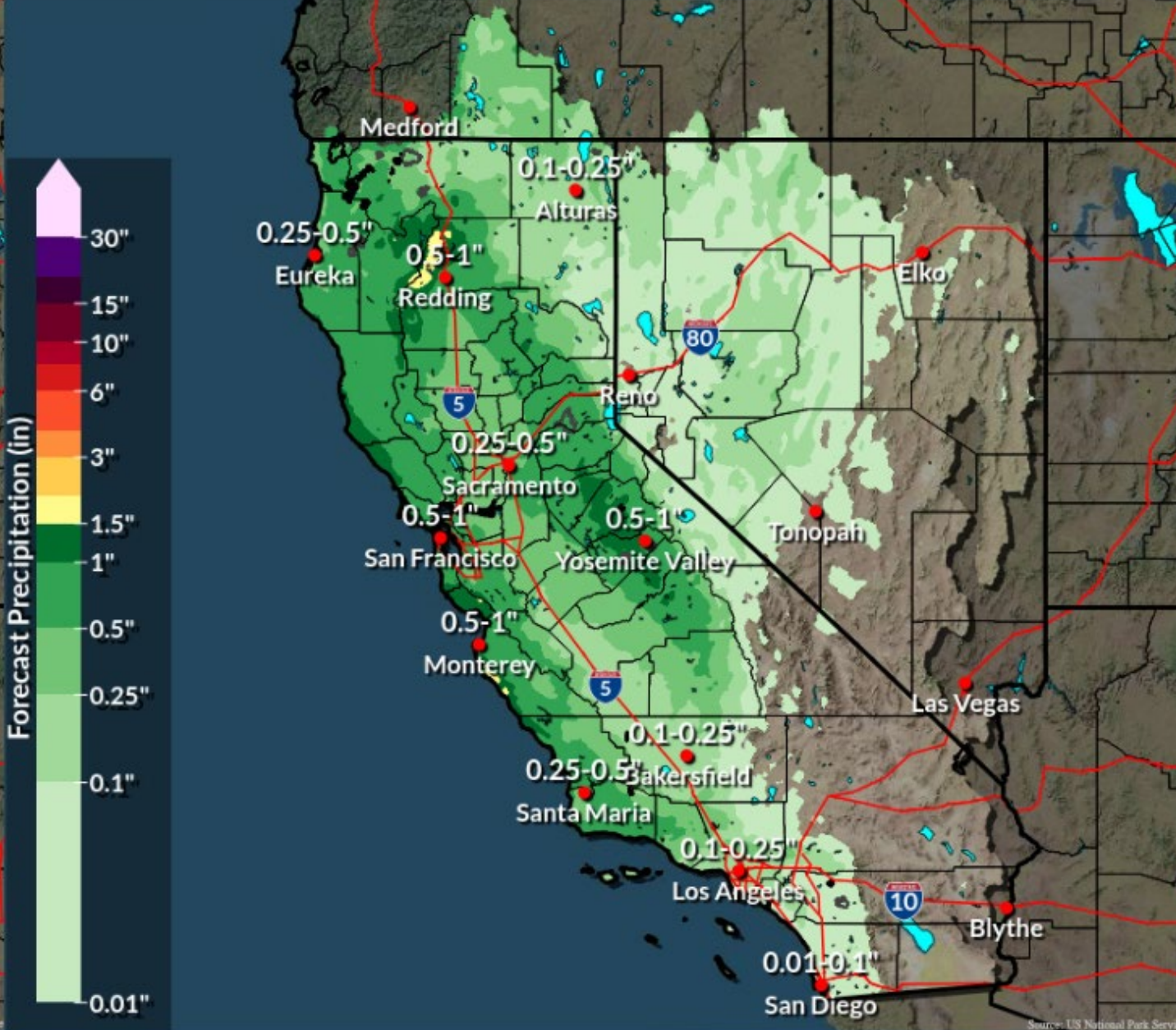


# 6-Day Forecast Precipitation

River Forecast Center  
Sacramento, CA

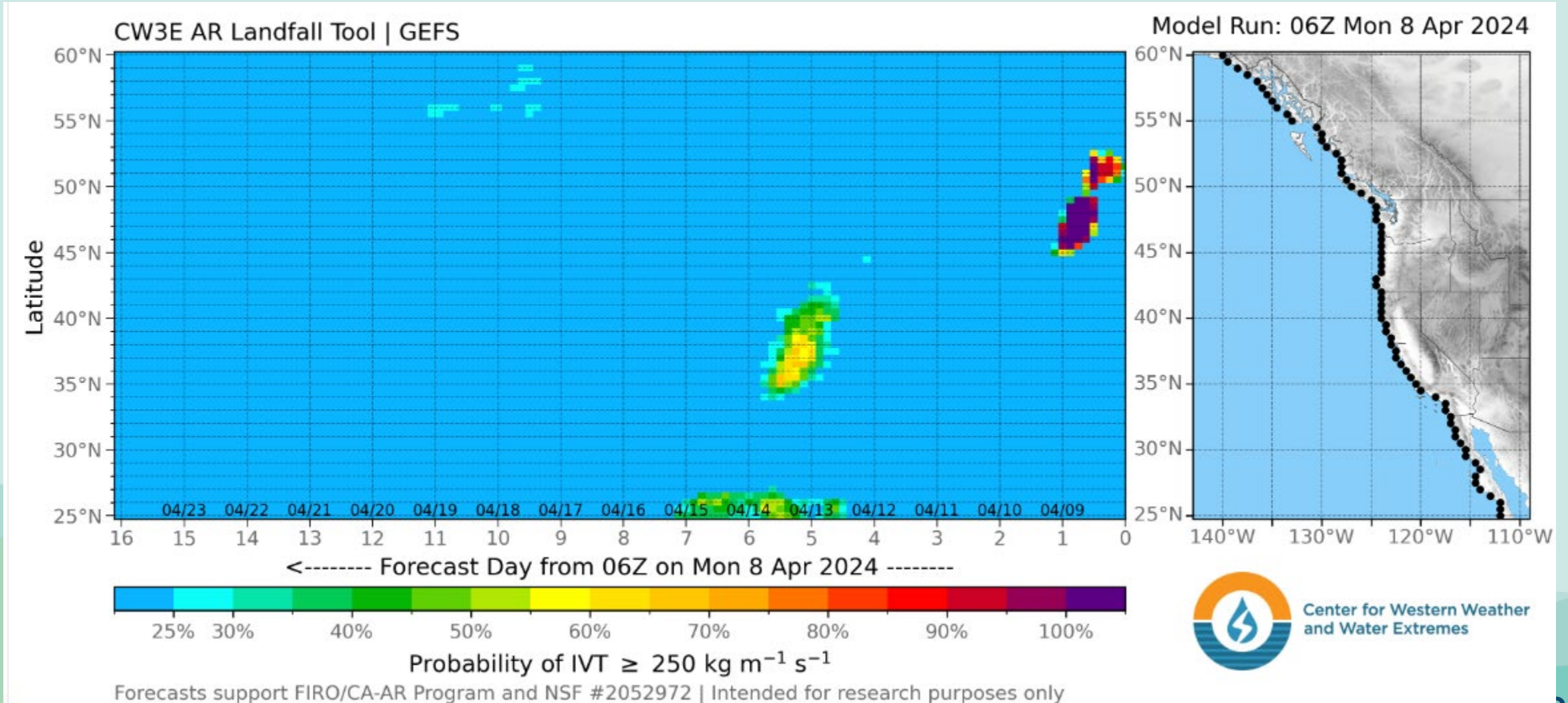


Mon Apr 8, 2024 5 AM PDT to Sun Apr 14, 2024 5 AM PDT Issued Apr 08, 2024 12:15 PM PDT



## 6-DAY FORECAST

# ATMOSPHERIC RIVER FORECAST



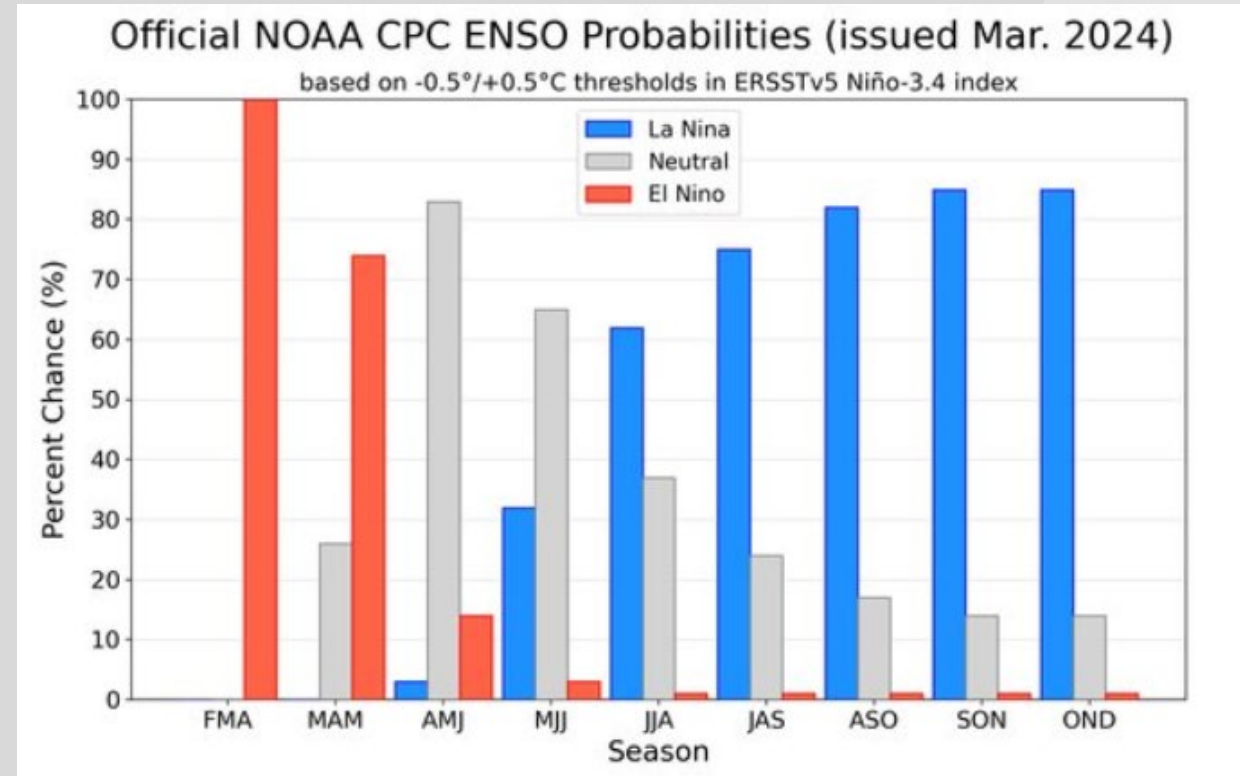


Source : <https://www.climate.gov/news-features/blogs/enso/march-2024-enso-update-award-season>

# WEATHER SHIFT

Transitioning from El Nino to La Nina again this summer

- No impacts for summer
- Next winter could be interesting

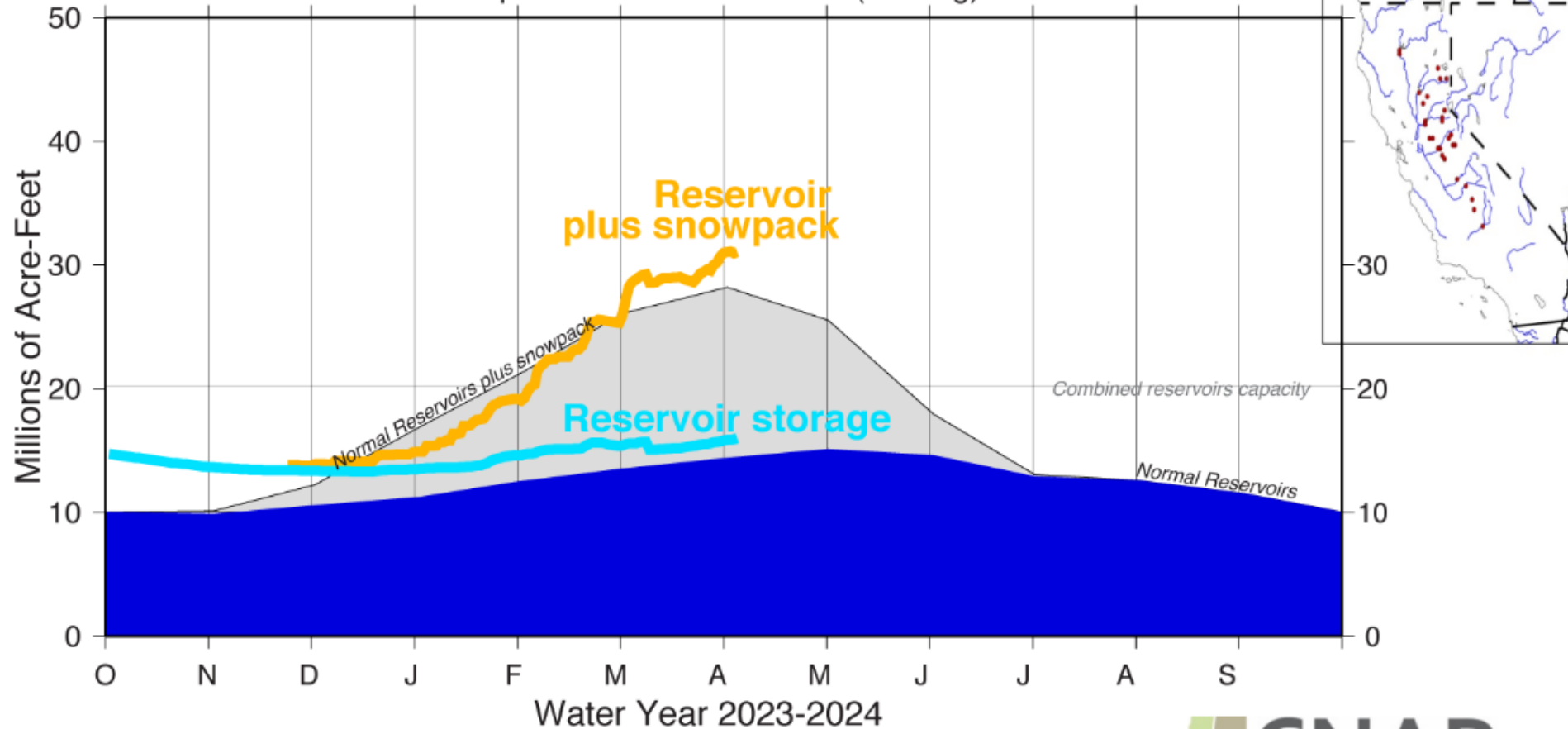


NOAA Climate Prediction Center forecast for each of the three possible ENSO categories for the next 8 overlapping 3-month seasons. Blue bars show the chances of La Niña, gray bars the chances for neutral, and red bars the chances for El Niño. Graph by Michelle L'Heureux.

# RESERVOIR CONDITIONS

## Water Stored in 28 Western Sierra Reservoirs plus Snowpack

Compared to 2000-15 Normals (shading)



Source: CNAP - [https://cnap.ucsd.edu/storage\\_in\\_sierra\\_ucrb/](https://cnap.ucsd.edu/storage_in_sierra_ucrb/)



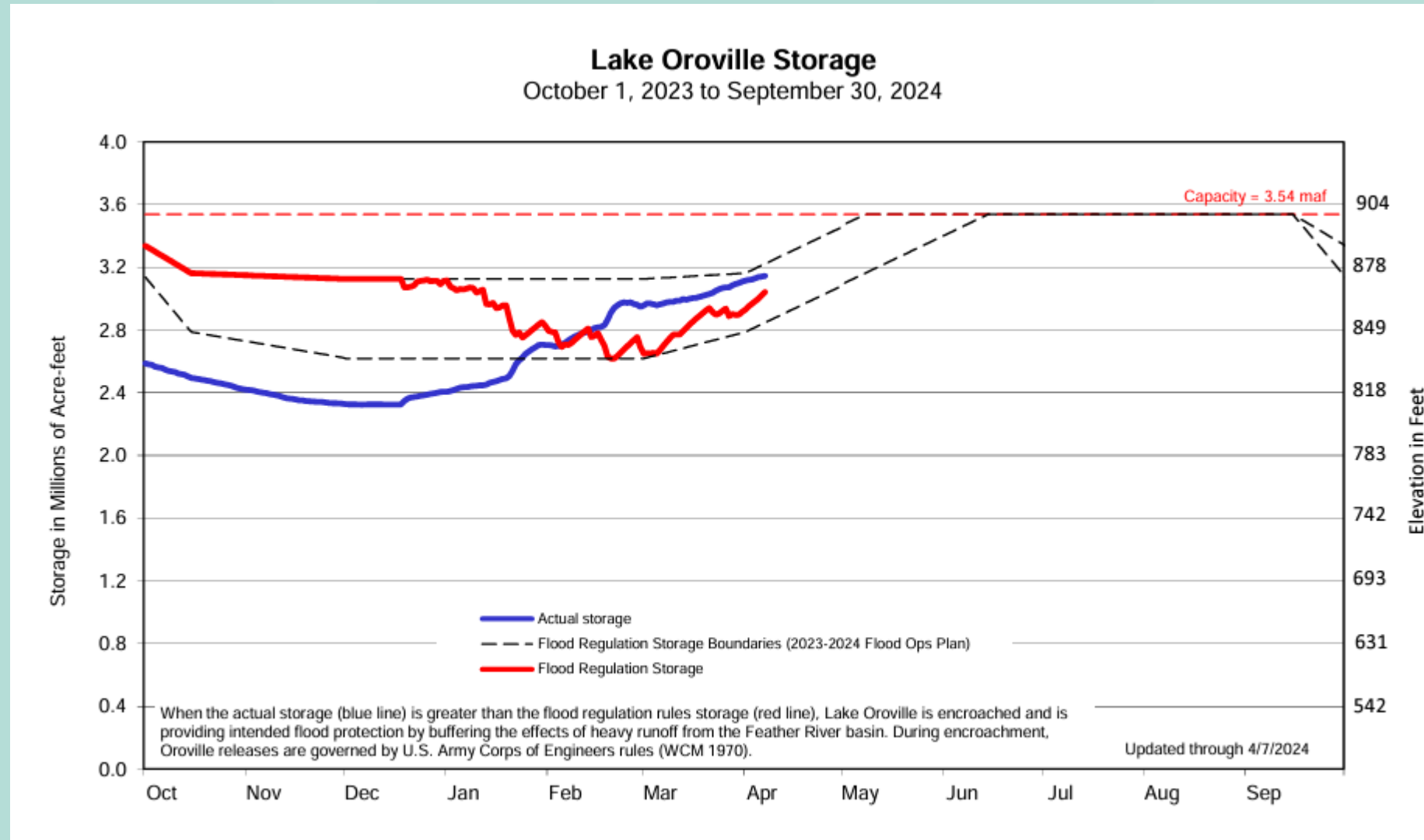
For info: [mddettinger@gmail.com](mailto:mddettinger@gmail.com)  
[https://cnap.ucsd.edu/storage\\_in\\_sierra\\_ucrb/](https://cnap.ucsd.edu/storage_in_sierra_ucrb/)

SOURCES: SWE dailies from <https://cdec.water.ca.gov/querySWC.html>  
SWE volume conversion factor based on Margulis et al, JHM 2016, SWE reanalysis  
Reservoir storage from <https://cdec.water.ca.gov/queryDaily.html>  
Reservoirs: SHA, KES, ORO, ANT, FRD, DAV, BUL, ENG, FOL, UNV, LON, ICH, NAT, CMN, PAR, DON, BRD, TUL, NML, DNP, HTH, CHV, EXC, MIL, PNF, TRM, SCC, ISB



# LAKE OROVILLE STORAGE

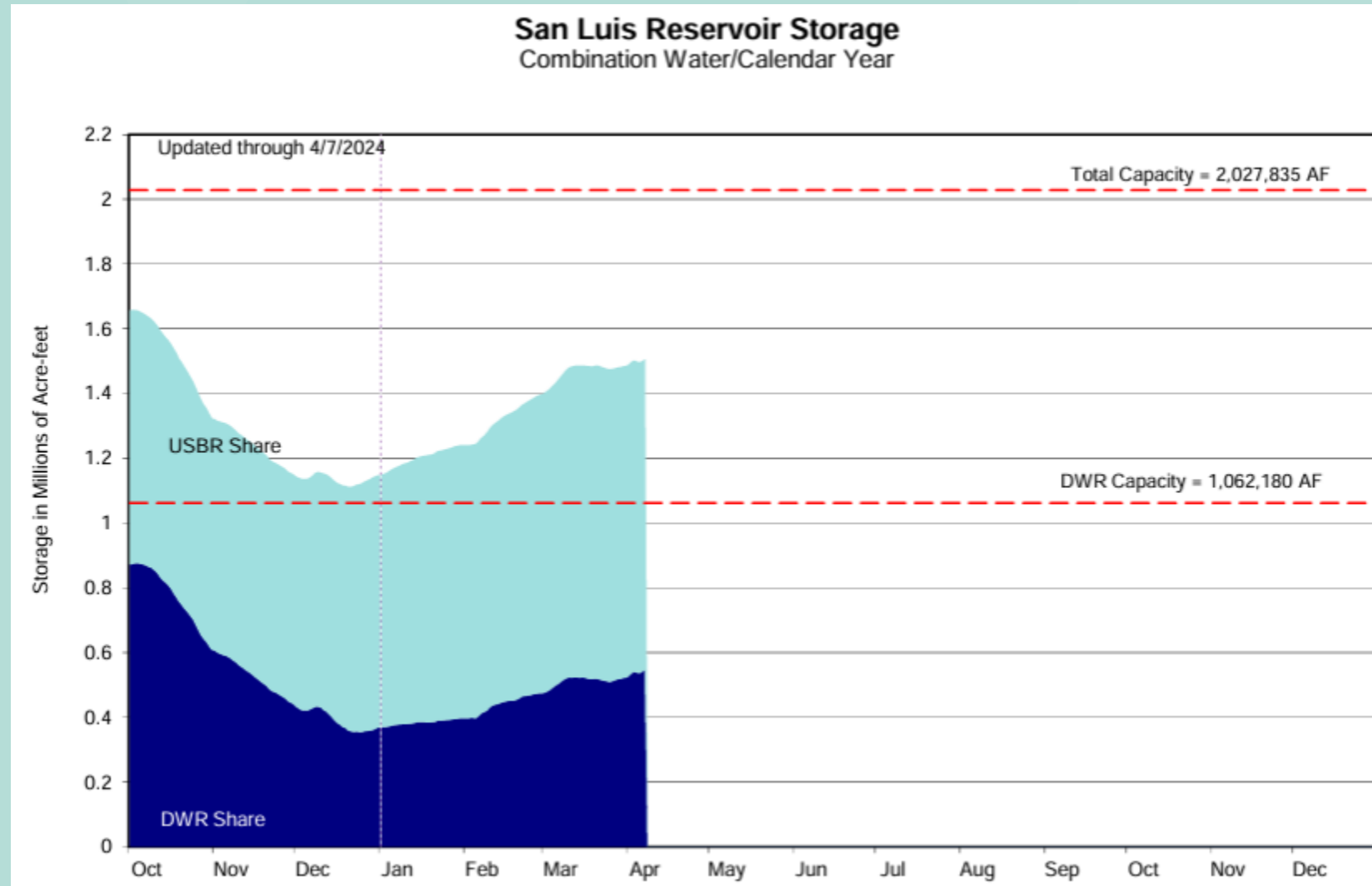
- DWR has been able to keep the reservoir higher than flood regulation curve because storms have not been huge.

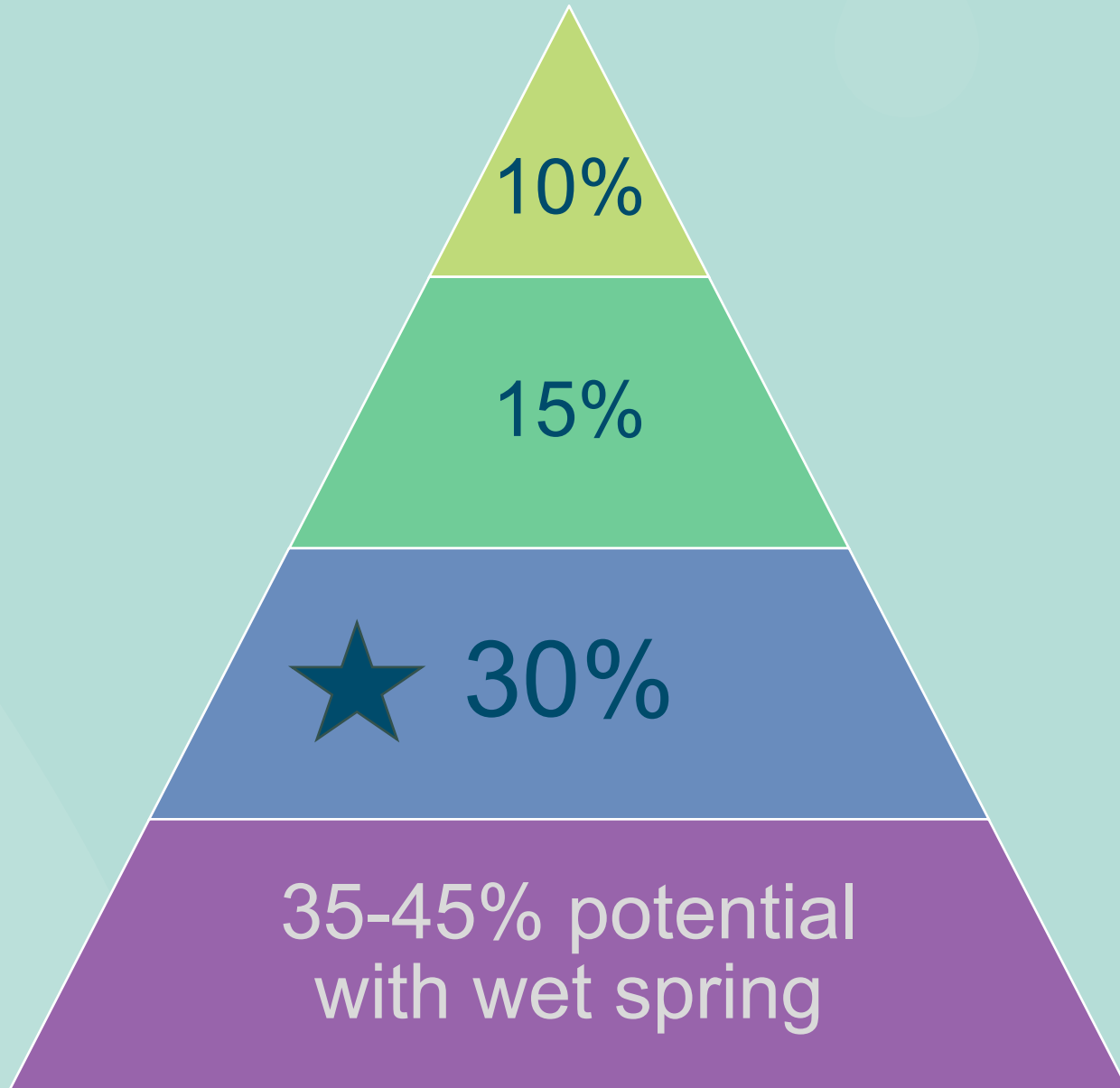


# SAN LUIS RESERVOIR STORAGE

- USBR share full
- DWR's share = 527 TAF
  - > March studies project
- Fishery constraints causing export reductions
  - Longfin smelt
  - Delta smelt
  - Winter-run salmon
  - Steelhead trout

TAF = thousand acre-feet





## SWP ALLOCATION INCREASED!

- March 22<sup>nd</sup> allocation increased to 30%
- Water year type is “Above Normal” currently

# 2024 OPERATING PLAN

- Updates highlighted in red
  - 30% SWP Allocation increase
  - 2019 AVEK 2:1 exchange return water confirmed!
  - Yuba Accord supply available
    - 500 AF @ \$128/AF
- Supplies used to date
  - 34% groundwater
  - 66% imported
    - Art 56 carryover
- Demands Jan.-Mar.
  - 17% less then forecasted

2024 Operating Plan 3-26-24	2024 30% SWP Allocation	2024 45% SWP Allocation	2025 5% SWP Allocation
<b>Demand</b>	<b>57,500</b>	<b>57,500</b>	<b>60,500</b>
<b>Groundwater Supplies</b>	18,050	18,050	22,840
Alluvium	10,900	10,900	11,840
Saugus	7,150	7,150	11,000
Recycled Water	500	500	500
<b>Imported Demand</b>	<b>38,950</b>	<b>38,950</b>	<b>37,160</b>
<b>Imported Supplies</b>			
SWP Table A	28,560	42,840	4,760
BVRRB	11,000	11,000	11,000
<b>Total Available Imported Supplies</b>	<b>39,560</b>	<b>53,840</b>	<b>15,760</b>
<i>Excess Imported Supplies (neg = shortfall)</i>	610	14,890	(21,400)
<b>Dry Year Water Supplies</b>			
SWP Carryover-Art 56 (not guaranteed)	18,000	18,000	21,454
Rosedale Banking		(15,000)	
Semitropic SWRU Banking			5,000
RRB 2023 Exchange			6,000
AVEK 2019 EXCHANGE	2,344		
YUBA WATER ACCORD	500		1,000
Conservation WSCP demand reduction			
Devils Den Sale	(500)	(500)	
Flexible Storage (up to 6,060 AF)			
<b>Potential SWP Carryover at End of Year (neg = shortage)</b>	<b>21,454</b>	<b>17,890</b>	<b>12,054</b>

# QUESTIONS

