



# STATUS OF WATER SUPPLY

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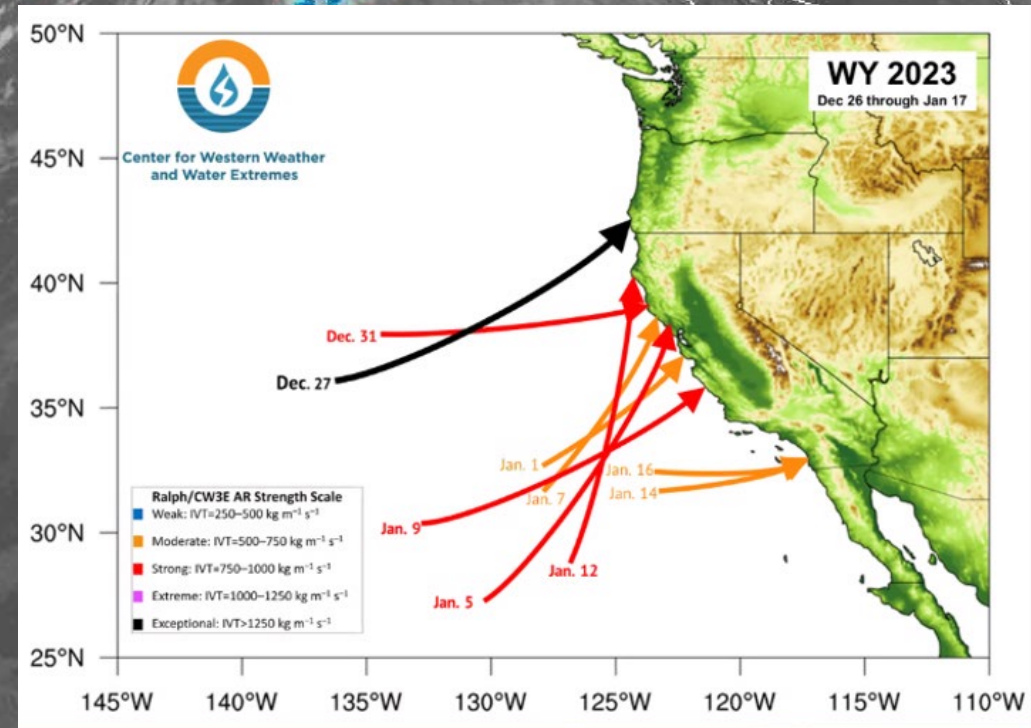
Water Resources and Watershed  
Committee

February 8, 2023

Sarah Fleury

# Overview

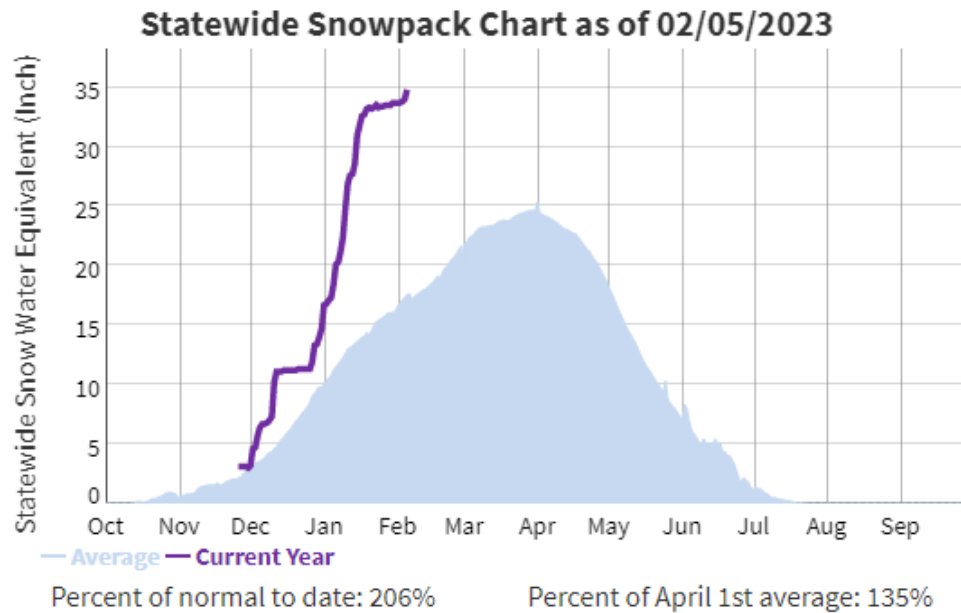
- Precipitation
  - Statewide Snowpack & Precipitation
  - Local
  - Forecast
- Reservoirs
- Allocation
- Operations



# Statewide Snowpack

## Snowpack as of 02/05/2023

The map of California shows how snowpack conditions compare to the historical averages at various locations across the state. The plot below aggregates this same data to show how the cumulative statewide snowpack is tracking relative to the historical average. This allows us to see how well the snowpack is doing to date, as well as how much snow may still be needed to reach the average peak snowpack (i.e., April 1st snowpack)



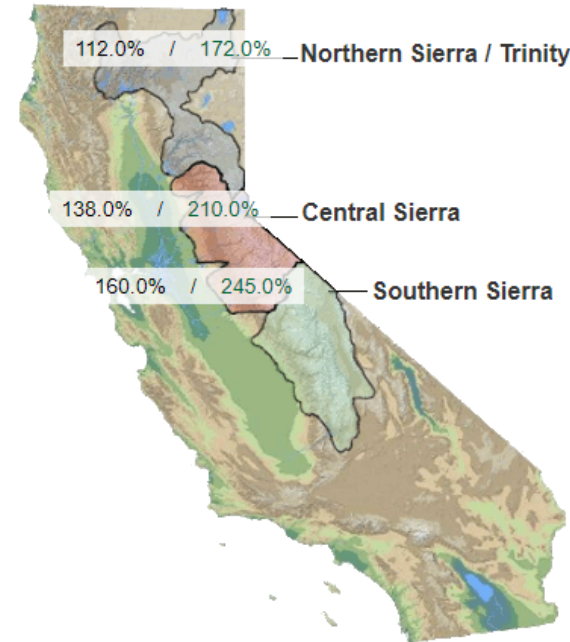
Source: California Water Watch - <https://cww.water.ca.gov/>

## Snow Water Equivalents (inches)

Provided by the California Cooperative Snow Surveys

Data For: 06-Feb-2023

% Apr 1 Avg. / % Normal for this Date



Change Date :

NORTH	
Data For:	06-Feb-2023
Number of Stations Reporting	32
Average snow water equivalent	32.0"
Percent of April 1 Average	112%
Percent of normal for this date	172%

CENTRAL	
Data For:	06-Feb-2023
Number of Stations Reporting	49
Average snow water equivalent	37.2"
Percent of April 1 Average	138%
Percent of normal for this date	210%

SOUTH	
Data For:	06-Feb-2023
Number of Stations Reporting	32
Average snow water equivalent	36.3"
Percent of April 1 Average	160%
Percent of normal for this date	245%

STATEWIDE SUMMARY	
Data For:	06-Feb-2023
Number of Stations Reporting	113
Average snow water equivalent	35.4"
Percent of April 1 Average	135%
Percent of normal for this date	206%

Source: California Data Exchange Center DWR-  
<https://cdec.water.ca.gov/snowapp/sweq.action>

# Statewide Precipitation

Water Year to Date Precipitation Percentage of Average (%) - 02/05/2023

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

### Statewide as of 02/05/2023

Water Year to Date: **18.64"**

% of Average: **145%**

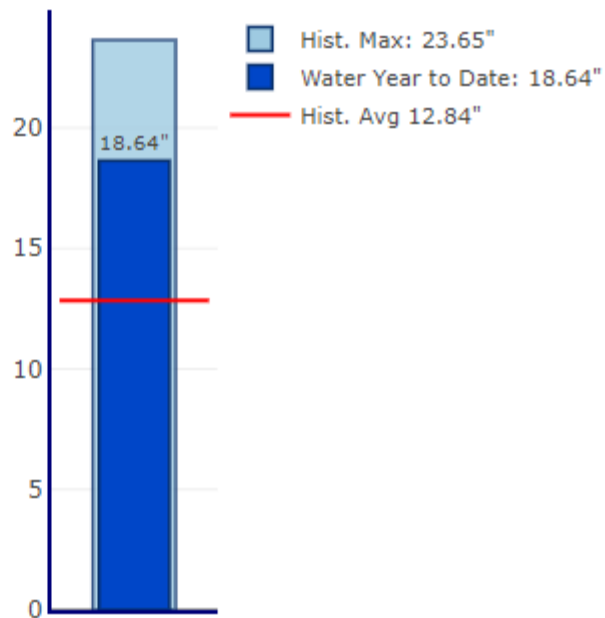
Precipitation % of average for full water year through September 30th: **79%**

### Historical Record to Date:

Max: **23.65"**

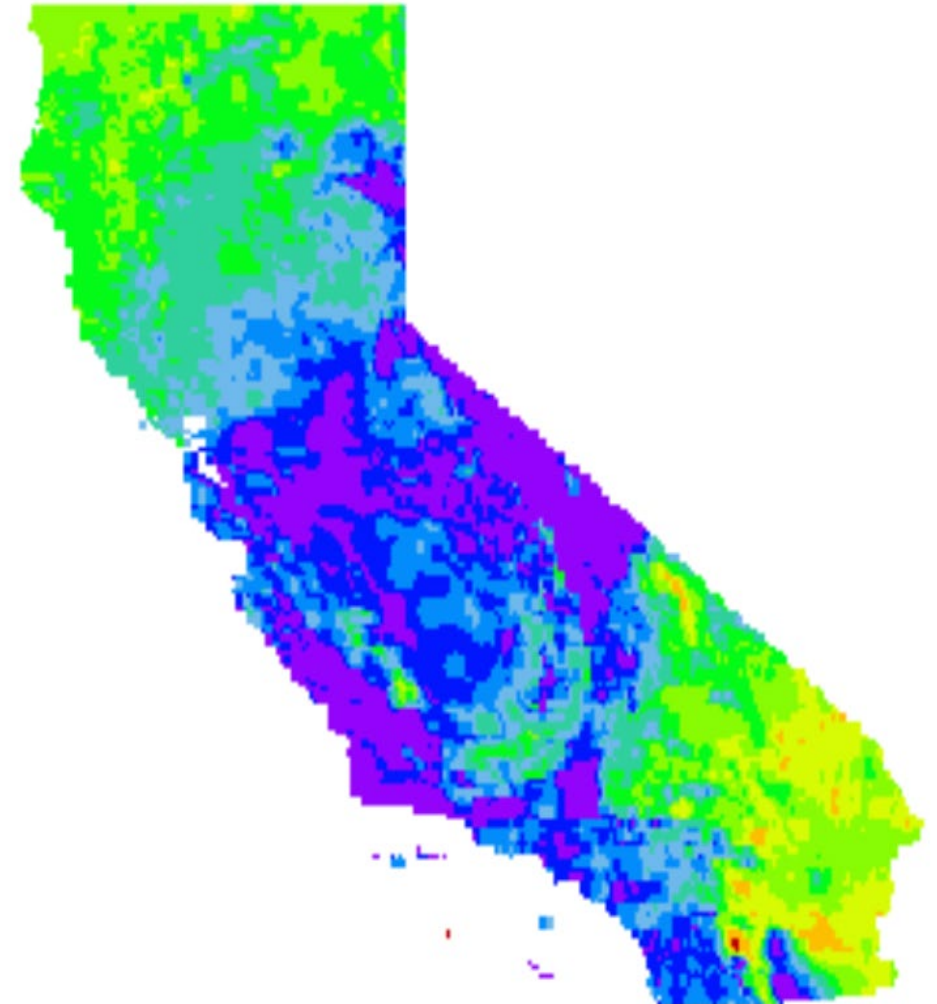
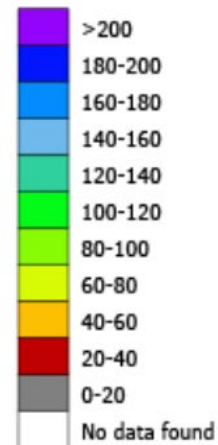
Mean: **12.84"**

Min: **2.39"**



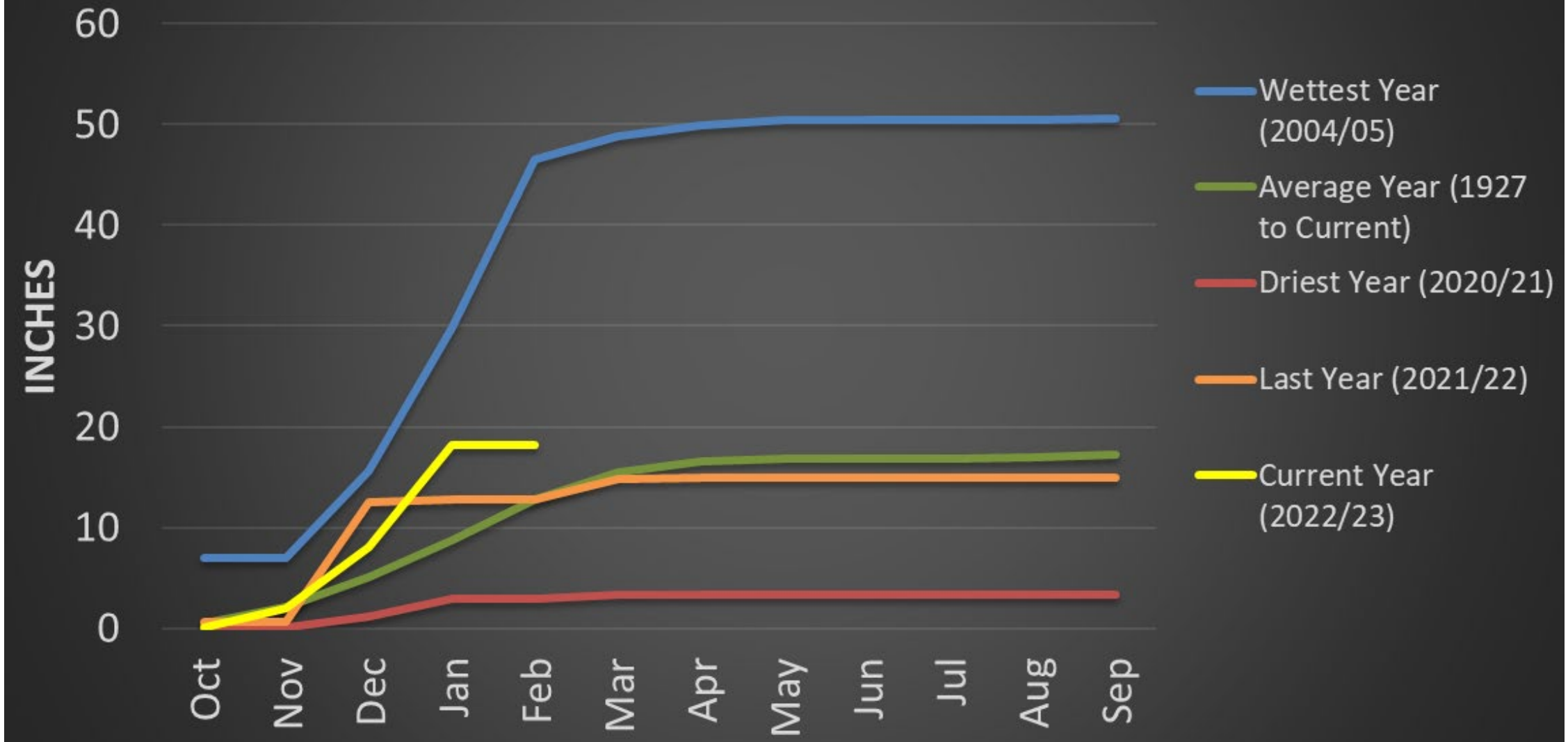
Precipitation for water year to date is 145% of historical average

### Water Year to Date Precipitation Percentage of Average (%)



Source: <https://cww.water.ca.gov/>

# SCV Historical Rainfall



Source: <https://dpw.lacounty.gov/wrd/rainfall/> (Newhall-Soledad Canyon Precipitation)

# Forecast

Feb 6 - Feb 12, 2023

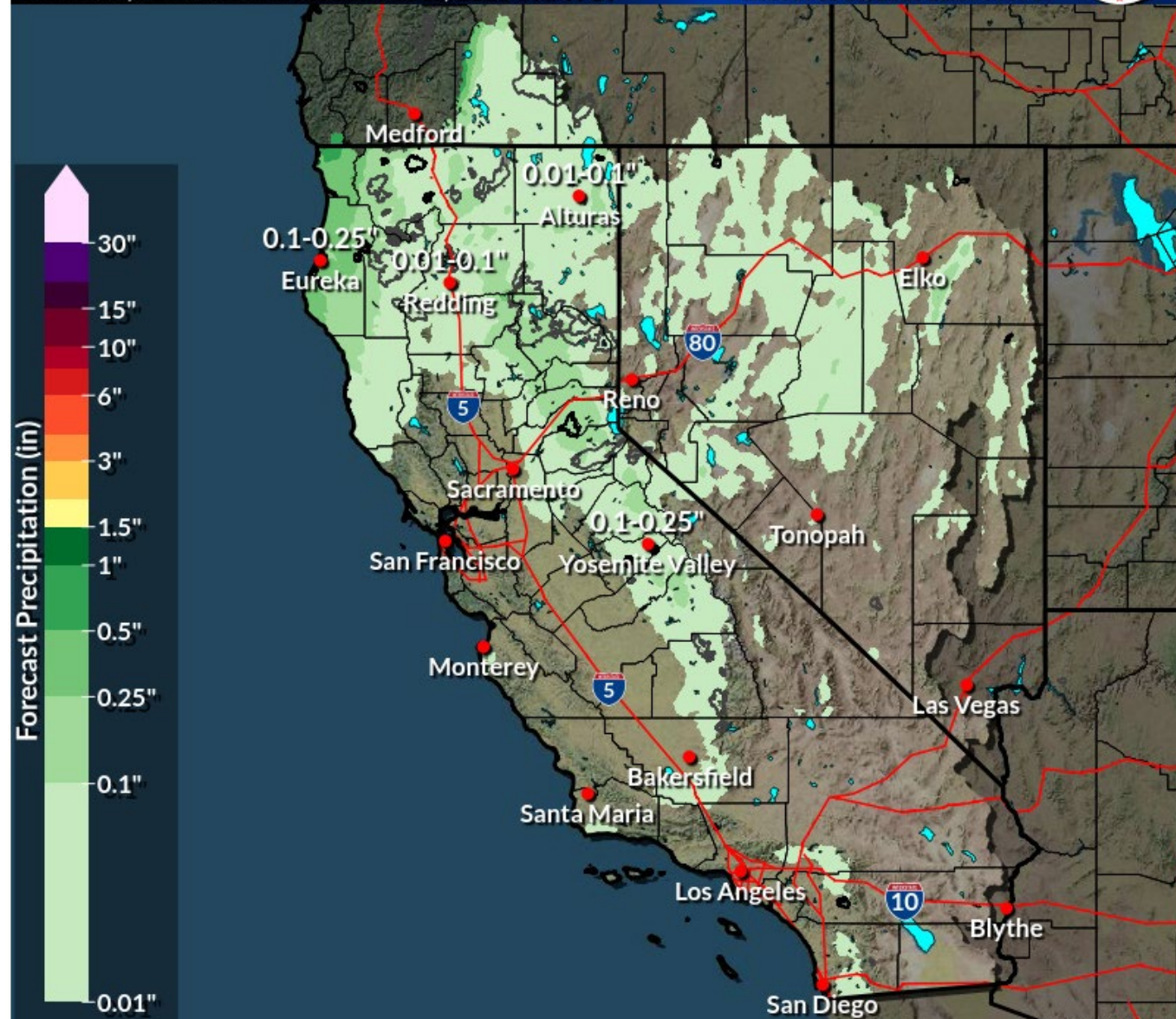
## 6-Day Forecast Precipitation

California Nevada  
River Forecast Center



Mon Feb 6, 2023 4 AM PST to Sun Feb 12, 2023 4 AM PST

Issued Feb 06, 2023 12:37 PM PST



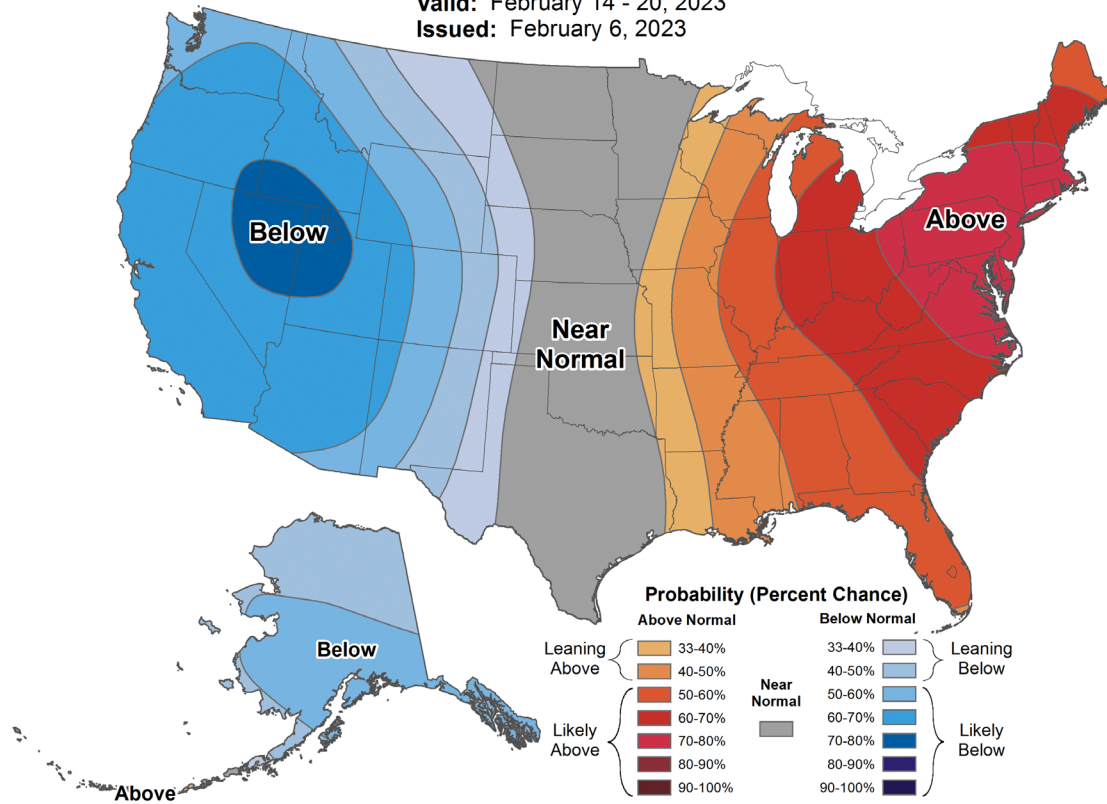
# Temperature Forecast



## 8-14 Day Temperature Outlook



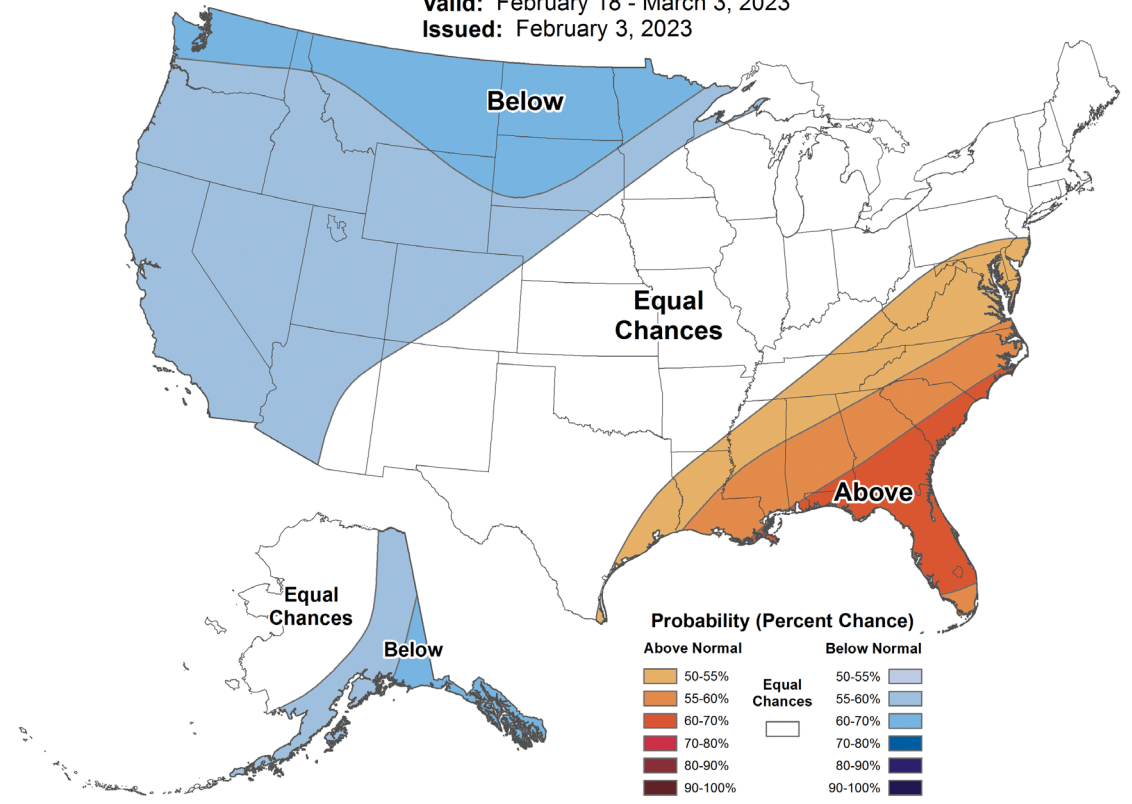
Valid: February 14 - 20, 2023  
 Issued: February 6, 2023



## Weeks 3-4 Temperature Outlook



Valid: February 18 - March 3, 2023  
 Issued: February 3, 2023



Source: <https://www.cpc.ncep.noaa.gov/>

# Lake Oroville Levels (Sept. 2021 vs. Jan. 2023)

**September 2021 – lowest point**



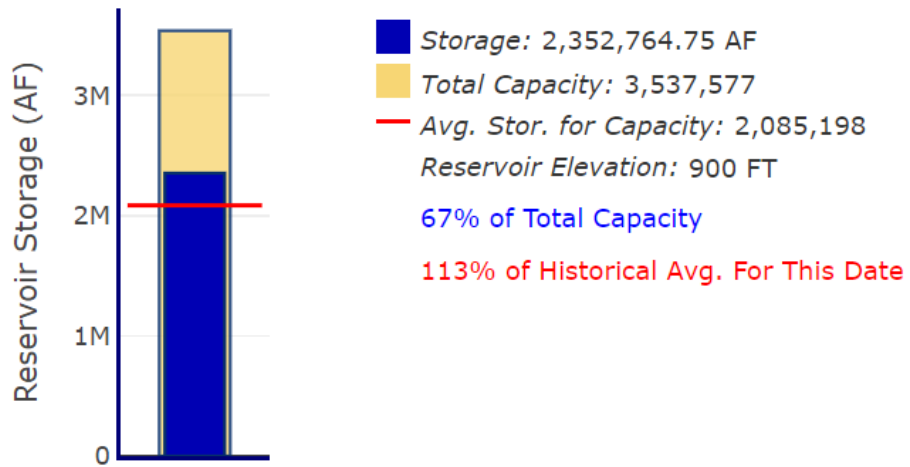
**January 2023 – After the storms**





# Lake Oroville

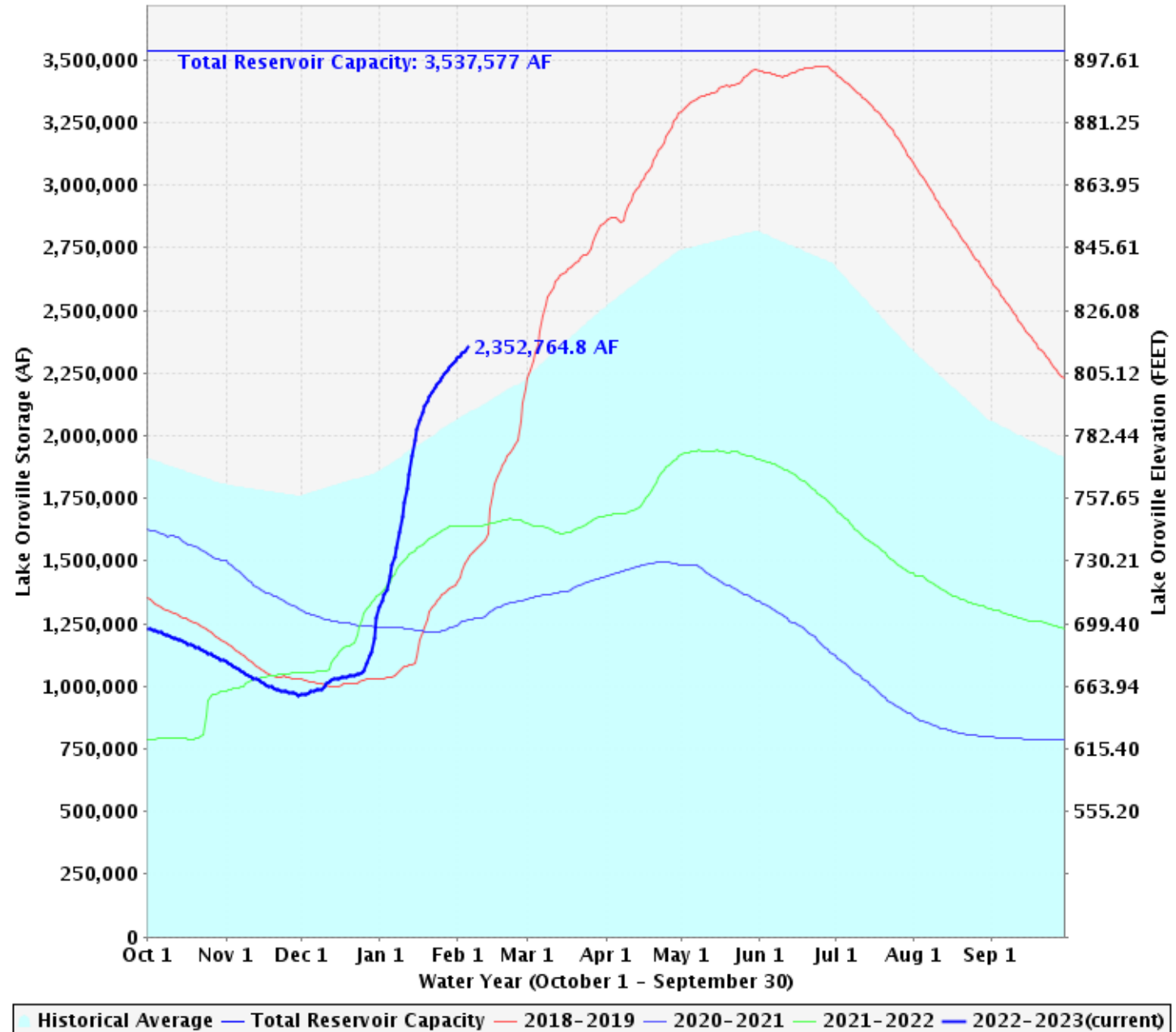
Lake Oroville (ORO) - Storage Conditions as of 02/05/2023



Source:

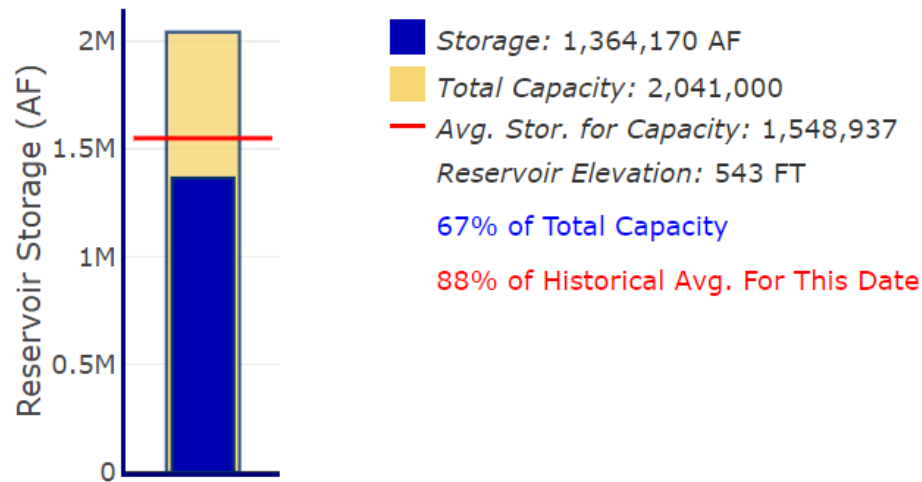
<https://cdec.water.ca.gov/resapp/ResDetailDrought.action?resid=ORO>

## Lake Oroville Storage Levels



# San Luis Reservoir

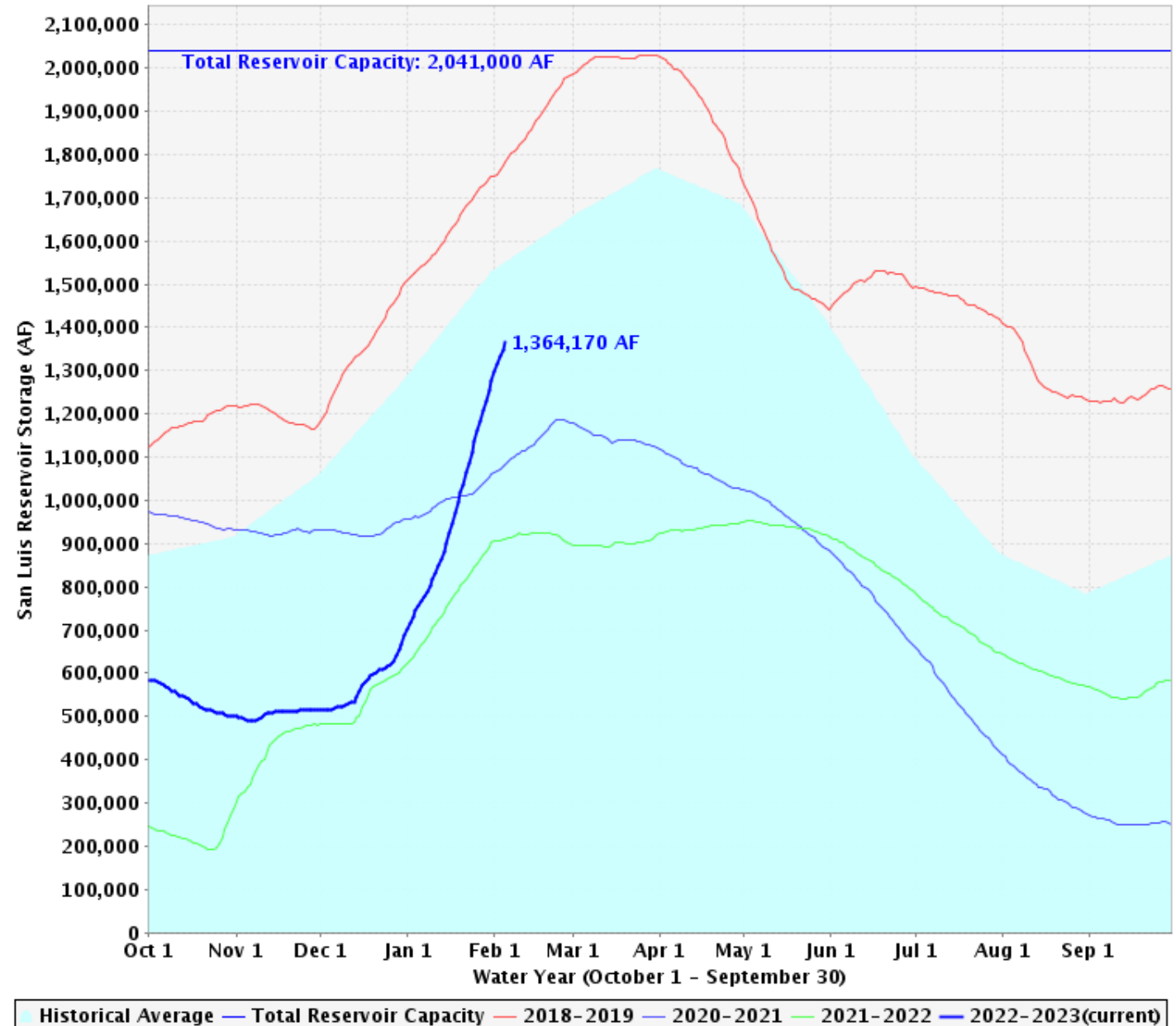
San Luis Reservoir (SNL) - Storage Conditions as of 02/05/2023



Source -

<https://cdec.water.ca.gov/resapp/ResDetailDrought.action?resid=SNL>

## San Luis Reservoir Storage Levels



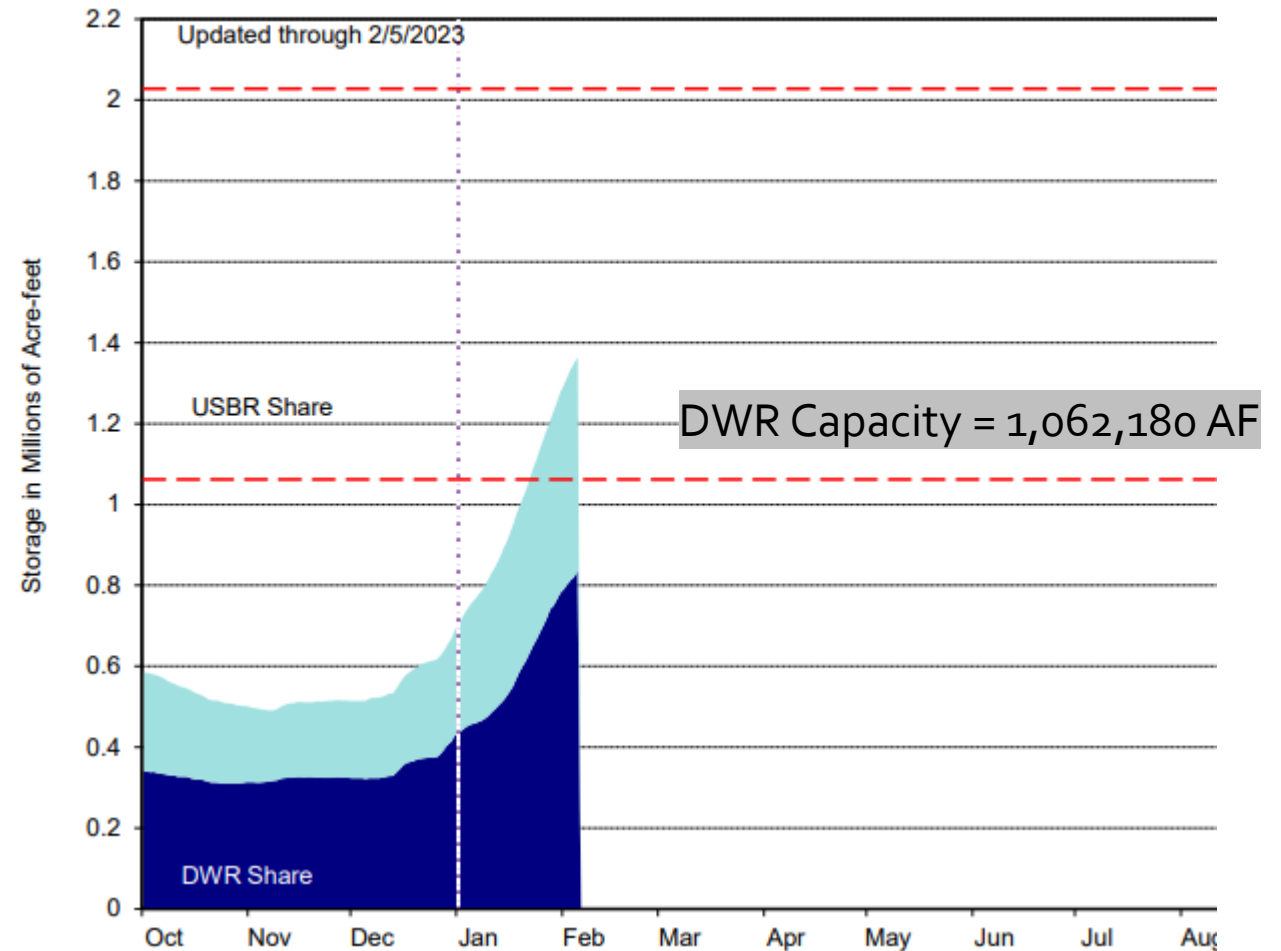
# San Luis Reservoir

DWR Share = 820,612 AF (2-4-23)

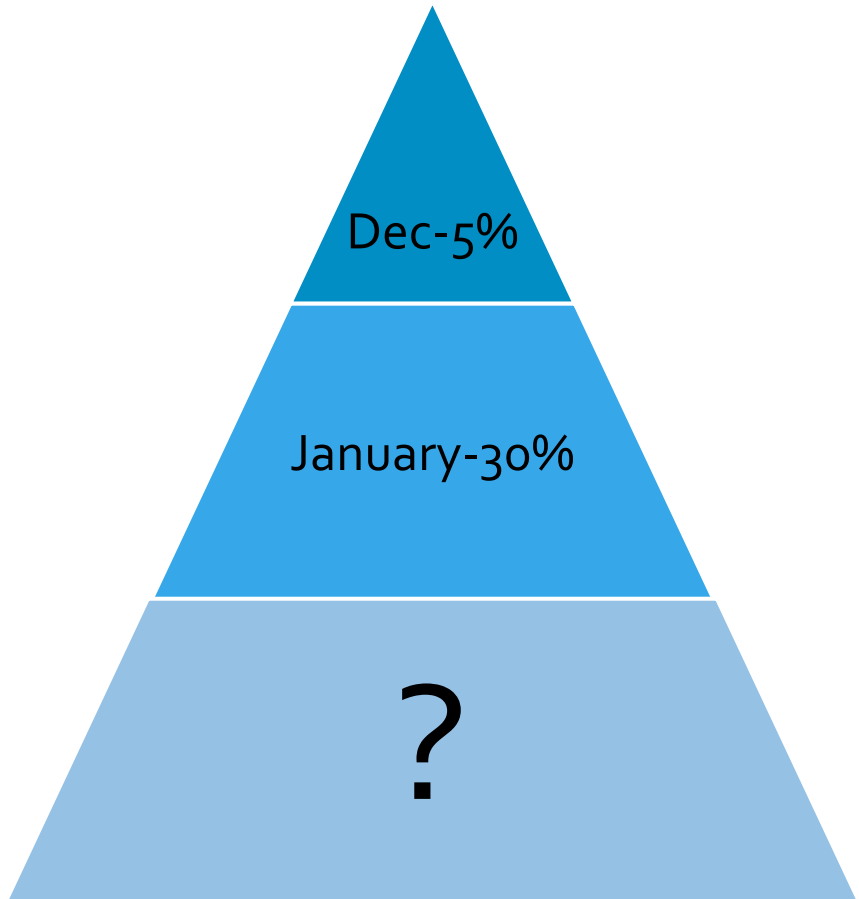
SCV Water Storage = 17,107 AF

- Monitoring spill potential
- Challenges with finalizing 2022 deliveries

**San Luis Reservoir Storage**  
Combination Water/Calendar Year



# SWP Allocation Increase



## SCV Water Operations Review

- Potential shift to maximize use of surface water supplies
- Demand decrease anticipated



## Imported Supply Review

- Avoid Article 56 (carryover) spill
- Evaluate need for banked supplies
- Inquire with partners for recharge opportunities

# Operating Plan Scenarios

## Assumptions

- Demand decrease (SCV above average precipitation)
- Currently at 30% SWP Allocation
- 17,100 AF of Carryover and Backup Supplies
- Eliminated banked deliveries
- Yuba option still available
- Assumes Tier 2 WSCP (until state requirement shifts)
- Goal of 10-20 TAF of carryover for 2024
- Nothing is final!

2023 Operating Plan 2-6-23	Initial 2023 5% SWP Allocation	2023 30% SWP Allocation (Tier 2 WSCP)	2023 50% SWP Allocation	2023 75% SWP Allocation
<b>Demand</b>	<b>72,500</b>	<b>69,200</b>	<b>69,200</b>	<b>69,200</b>
Groundwater	24,500	24,500	24,500	24,500
Alluvium	14,000	14,000	14,000	14,000
Saugus	10,500	10,500	10,500	10,500
Recycled Water	700	700	700	700
<b>Imported Demand</b>	<b>47,300</b>	<b>44,000</b>	<b>44,000</b>	<b>44,000</b>
<b>Imported Supplies</b>				
SWP Table A	4,760	28,560	47,600	71,400
BVRRB	11,000	11,000	11,000	11,000
<b>Total Available Imported Supplies</b>	<b>15,760</b>	<b>39,560</b>	<b>58,600</b>	<b>82,400</b>
<i>Excess Imported Supplies (neg = shortfall)</i>	<i>(31,540)</i>	<i>(4,440)</i>	<i>14,600</i>	<i>38,400</i>
<b>Dry Year Water Supplies</b>				
SWP Carryover Delivered (not guaranteed)	17,100	17,100	17,100	7,500
Rosedale Banking	15,000		(15,000)	(20,000)
Semitropic SWRU Banking	5,000		(5,000)	(5,000)
Yuba Accord	1,000	1,000		
Conservation WSCP estimated 0-15% demand reduction	10,875	10,380	10,380	10,380
Flexible Storage (up to 6,060 AF)				
<b>Total Imported &amp; Dry Year Supplies</b>	<b>64,735</b>	<b>68,040</b>	<b>66,080</b>	<b>75,280</b>
2023 SWP Carryover into 2024 (neg = shortage)	17,435	24,040	22,080	31,280



Plans are things  
that change.

Fujio Cho

**QUESTIONS**

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