

Water Supply Conditions and SWP Allocation Overview

WaterReuse Association
Northern CA Chapter
February 17, 2023

Molly White, P.E.
SWP Water Operations Manager

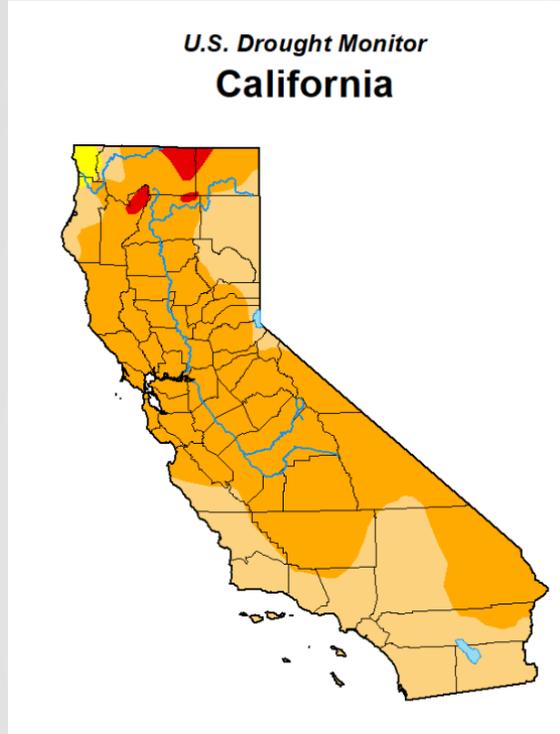


Overview

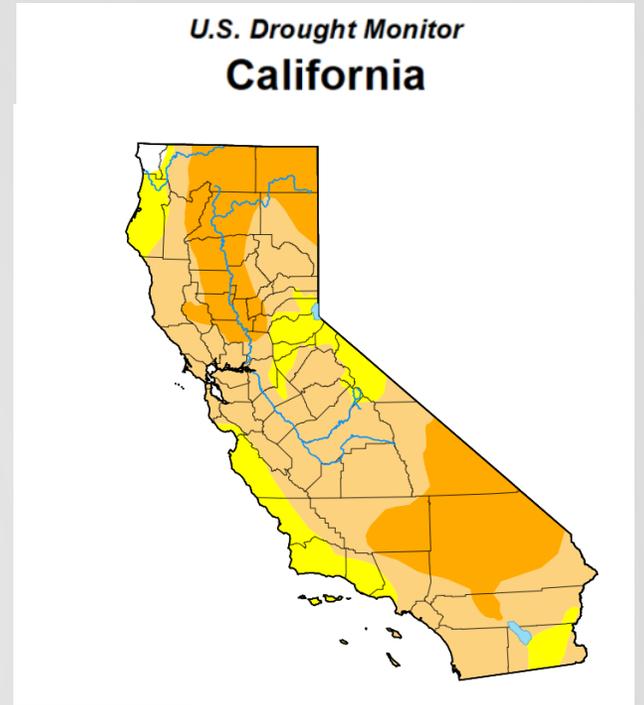
- California Drought Monitor
- WY 2023 Hydrology and Water Supply Conditions
- State Water Project Allocation Considerations



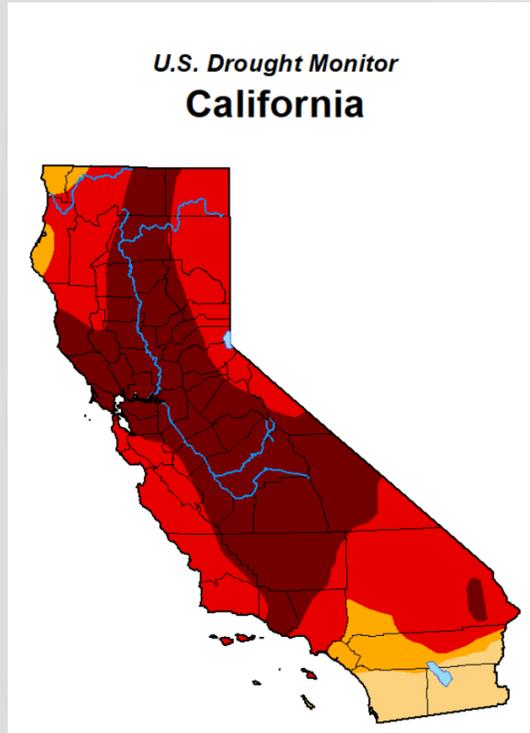
February 8, 2022
~a year ago



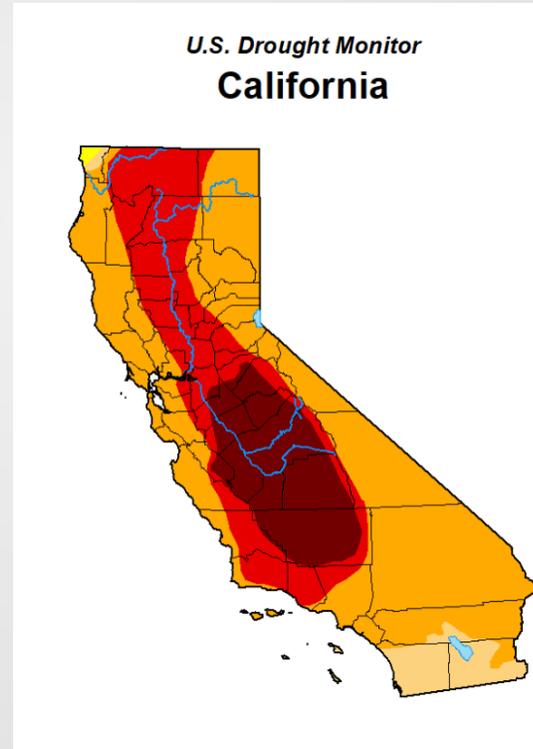
February 16, 2023
Current



September 28, 2021
Beginning of WY 2022



September 27, 2022
Beginning of WY 2023



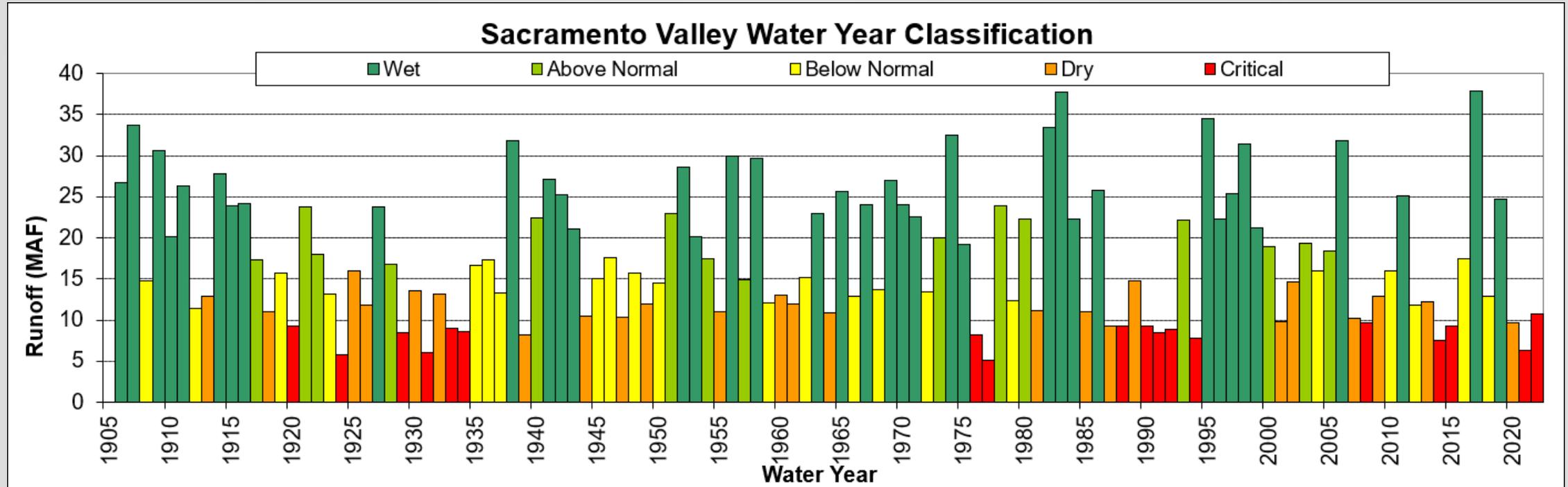
Intensity

- None
- D0 (Abnormally Dry)
- D1 (Moderate Drought)
- D2 (Severe Drought)
- D3 (Extreme Drought)
- D4 (Exceptional Drought)
- No Data



Northern CA

Uncertain/Variable Hydrology



- CA - most varied precipitation across Continental US
- WY 2023, following the driest 3-year period on record
- Annual/Inter-annual variability/uncertainty
- Extreme dry/wet periods



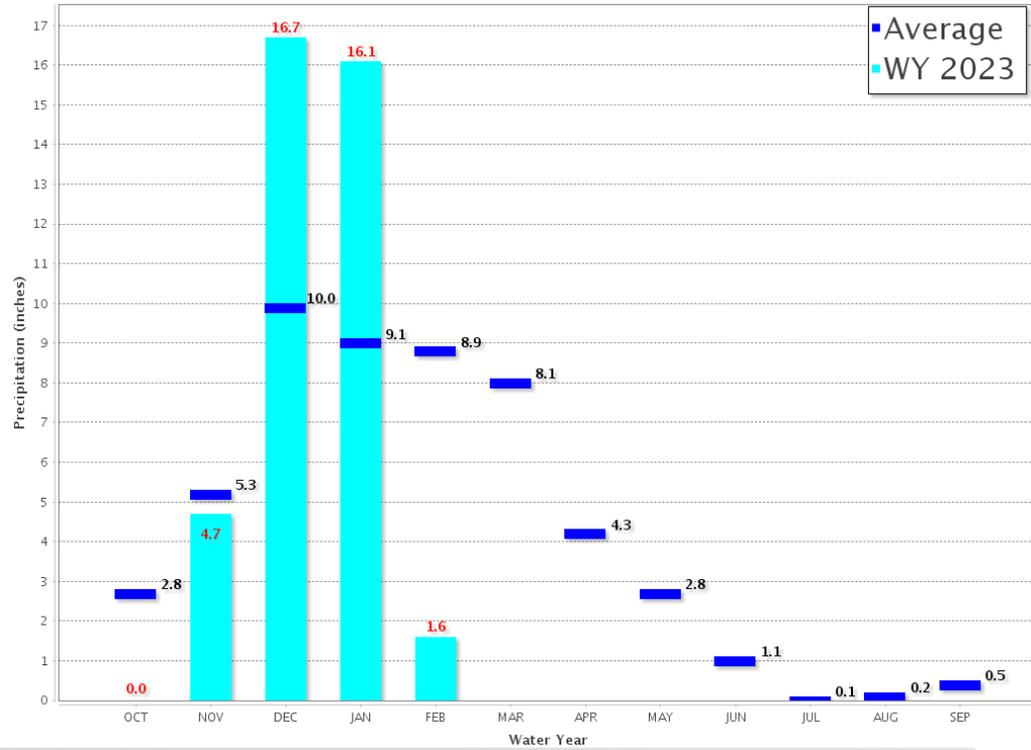


Northern Sierra 8-Station

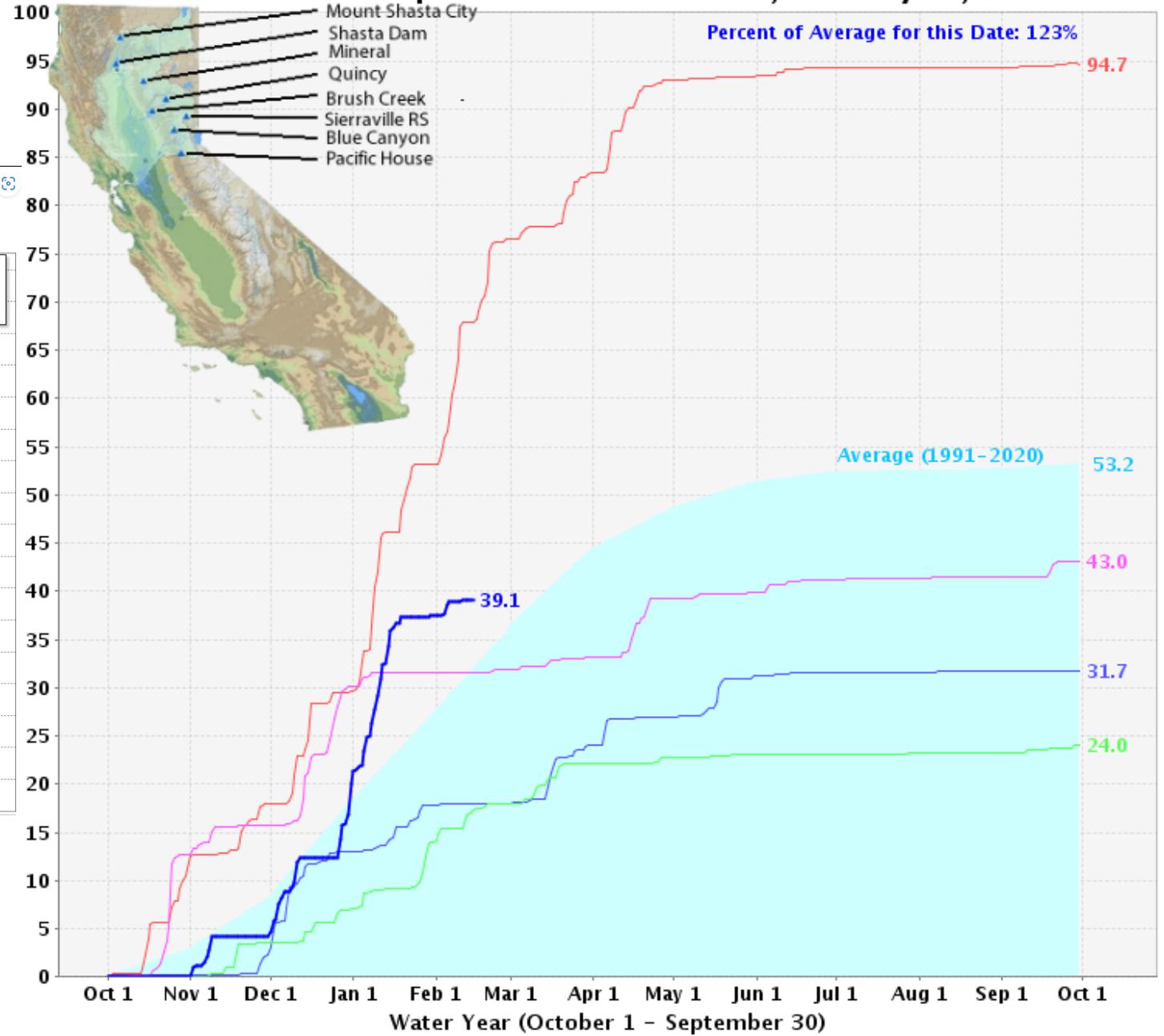
Precipitation Index for Water Year 2023 - Updated on February 15, 2023 03:48 PM

Note: Monthly totals may not add up to seasonal total because of rounding

Water Year Monthly totals are calculated based on Daily precipitation data from 12am to 12am PST



Northern Sierra Precipitation: 8-Station Index, February 15, 2023



■ Average (1991-2020)
 — 2016-2017 (wettest)
 — 2019-2020
 — 2020-2021
 — 2021-2022
 — 2022-2023 (current)

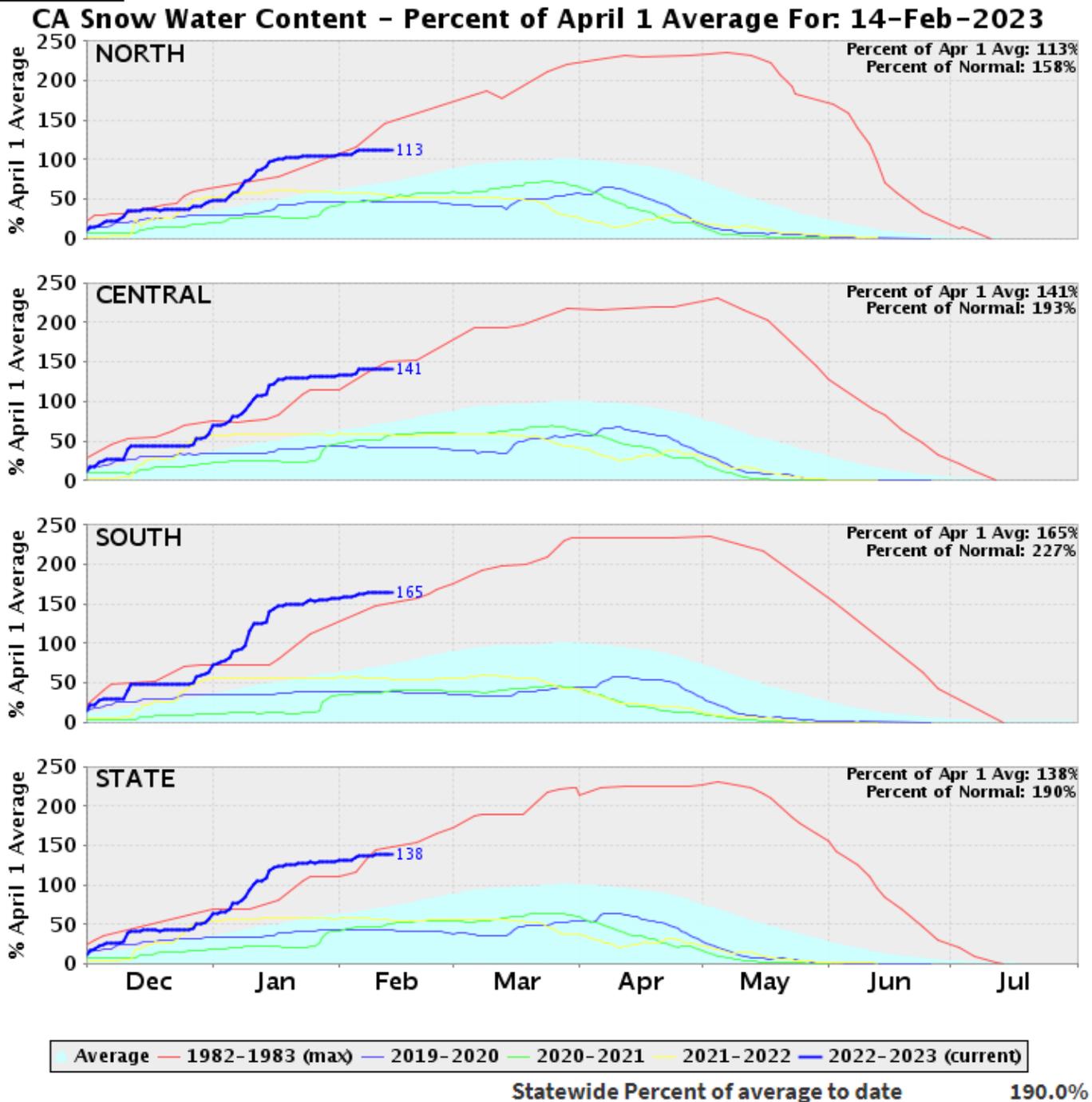
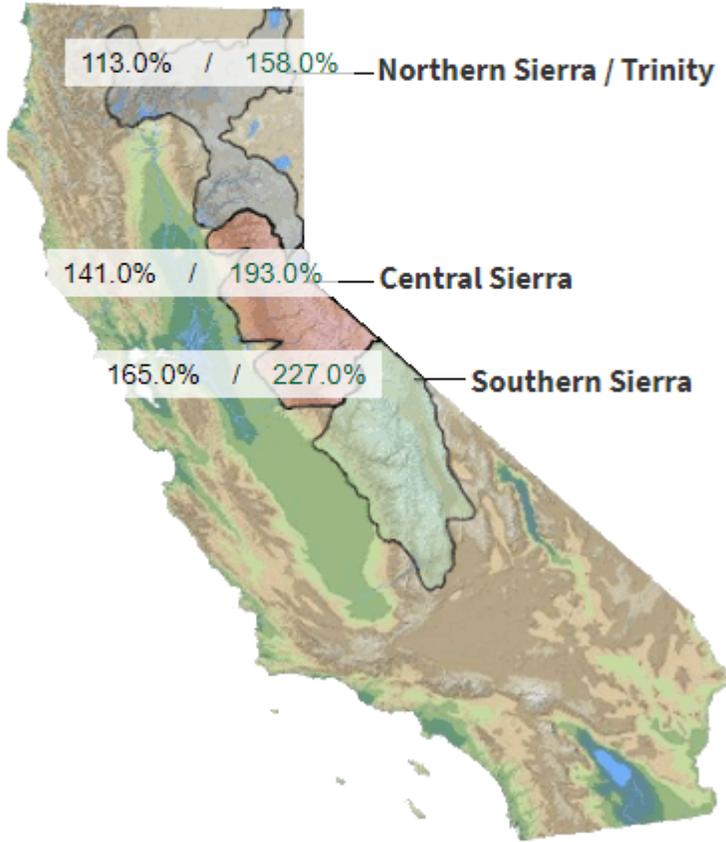


Snow Water Equivalents

Provided by the California Cooperative Snow Surveys

Data For: 14-Feb-2023

% Apr 1 Avg. / % Normal for this Date



Subset of Major CA Water Supply Reservoirs

Statewide average: 93%

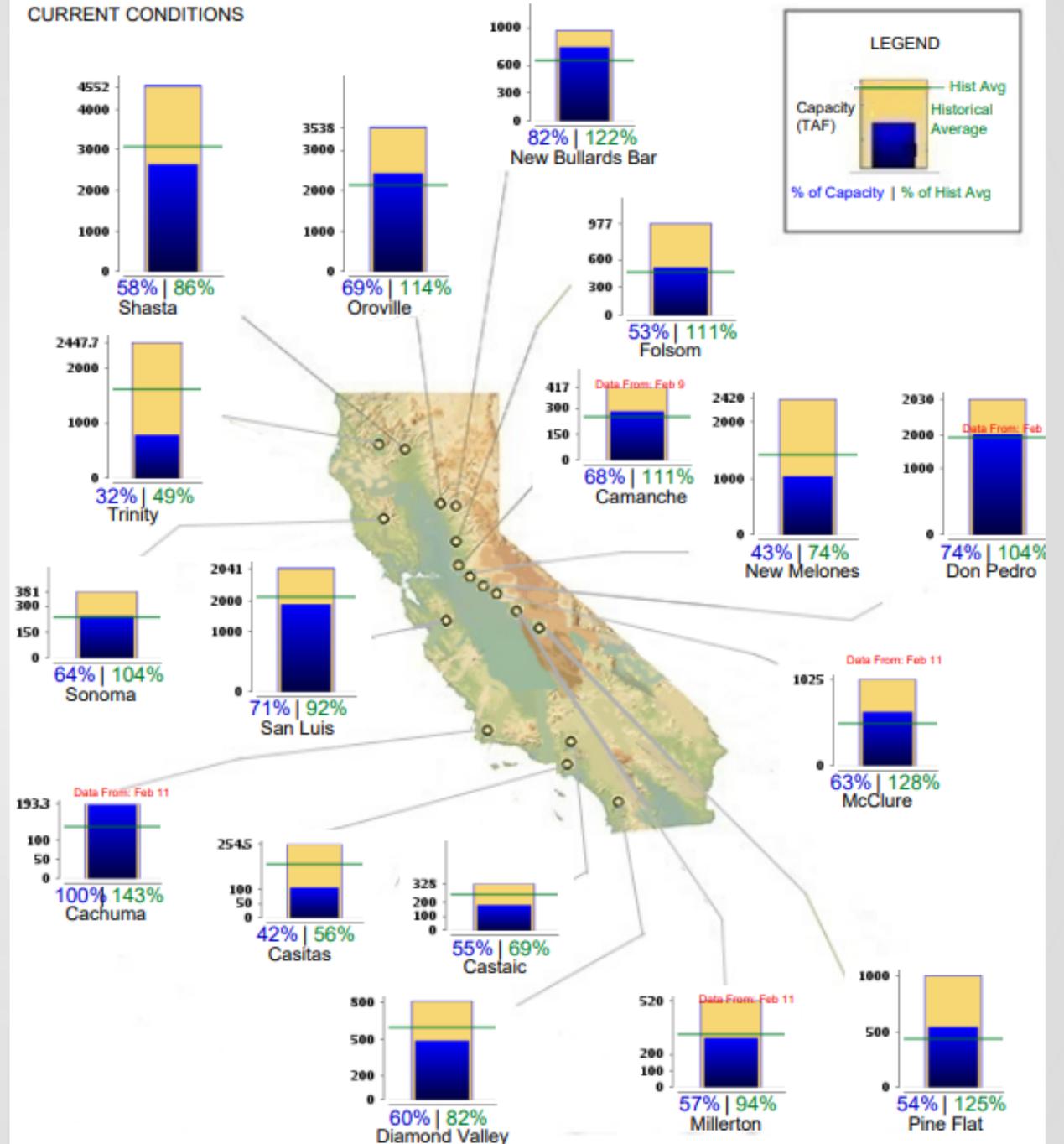


CALIFORNIA DEPARTMENT OF WATER RESOURCES

CALIFORNIA MAJOR WATER SUPPLY RESERVOIRS

Midnight - February 12, 2023

CURRENT CONDITIONS



SWP Water Supply Allocation

- 29 State Water Contractors have long term water supply contracts
 - ~27 million Californians
 - 750,000 acres of agriculture
- Annual maximum Table A amount: ~4.17 million acre-feet
- Annual calendar year allocation:
 - Expressed as a percentage of ~4.17 million acre-feet
- Initial allocation – December 1
 - Initial 2023 allocation: 5% + unmet human health and safety
 - January 2023: Increased to 30%
- Updated monthly
- Final allocation determination – May/June

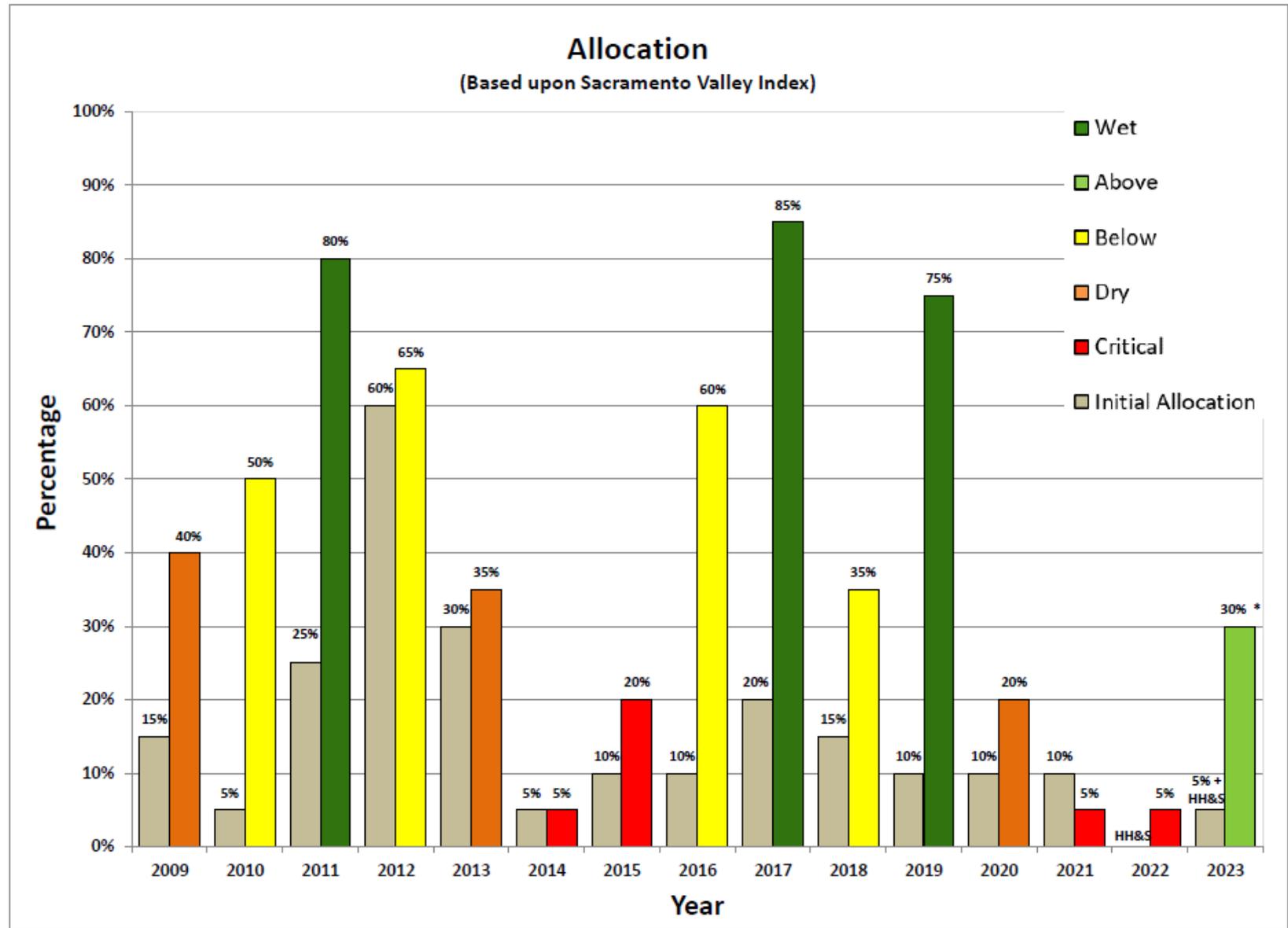


SWP Water Supply Considerations

- Dry water supply runoff forecasts
- Senior water right obligations
- Instream flow requirements
- Delta water quality and flow requirements
- State and Federal ESA requirements
- SWP storage conditions and demands
- SWP/CVP Coordinated Operations



Historical SWP Allocations



THANK YOU --- QUESTIONS??

Resources:

CA Dept of Water Resources: <https://water.ca.gov/>

CA Water Watch: www.cww.water.ca.gov

CA Data Exchange Center: <https://cdec.water.ca.gov/>

CA Drought: <https://drought.ca.gov/>

Conservation: <https://saveourwater.com/>

