



WATER & POWER
Serving Central California since 1887

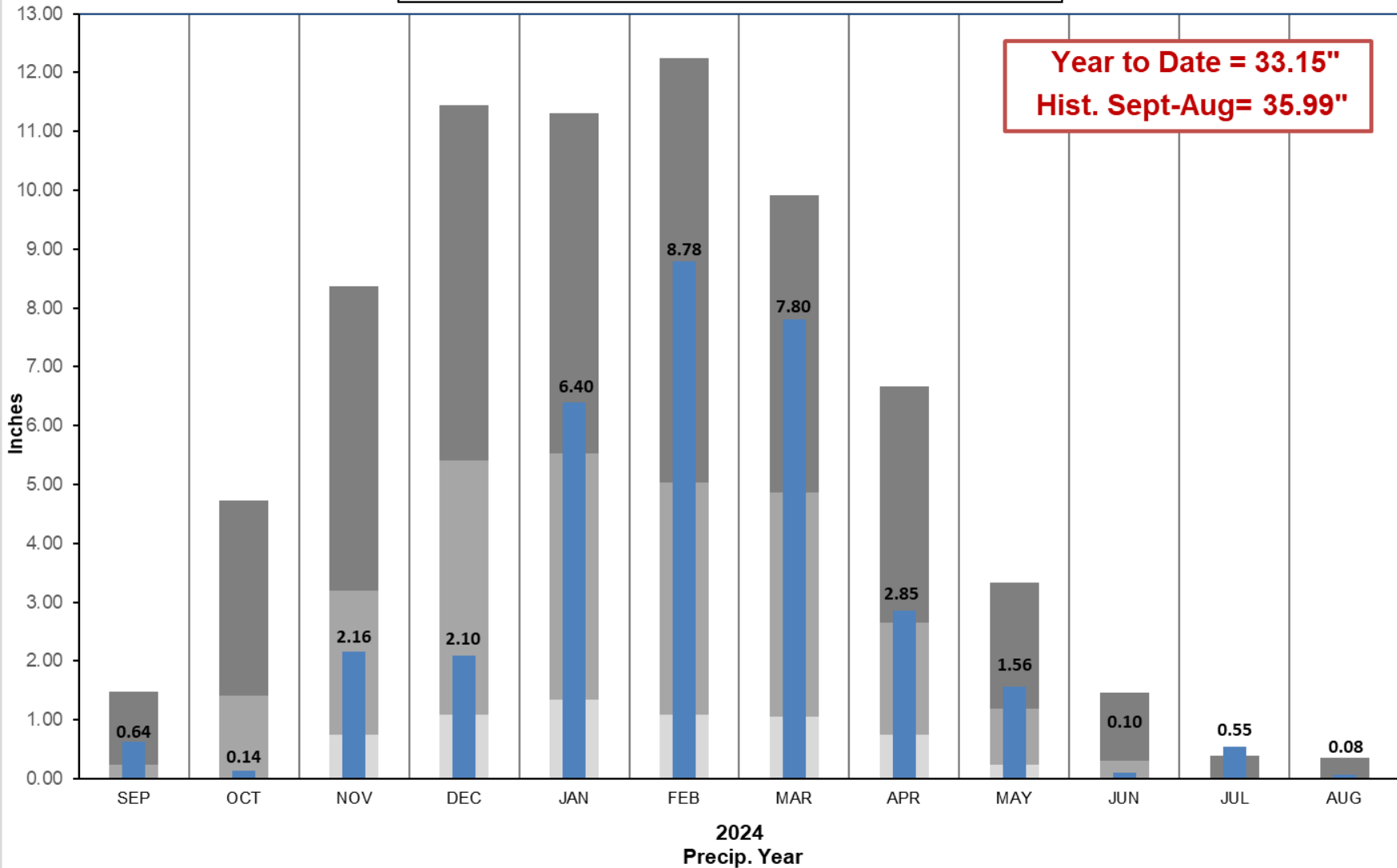


2024 Water Year Recap

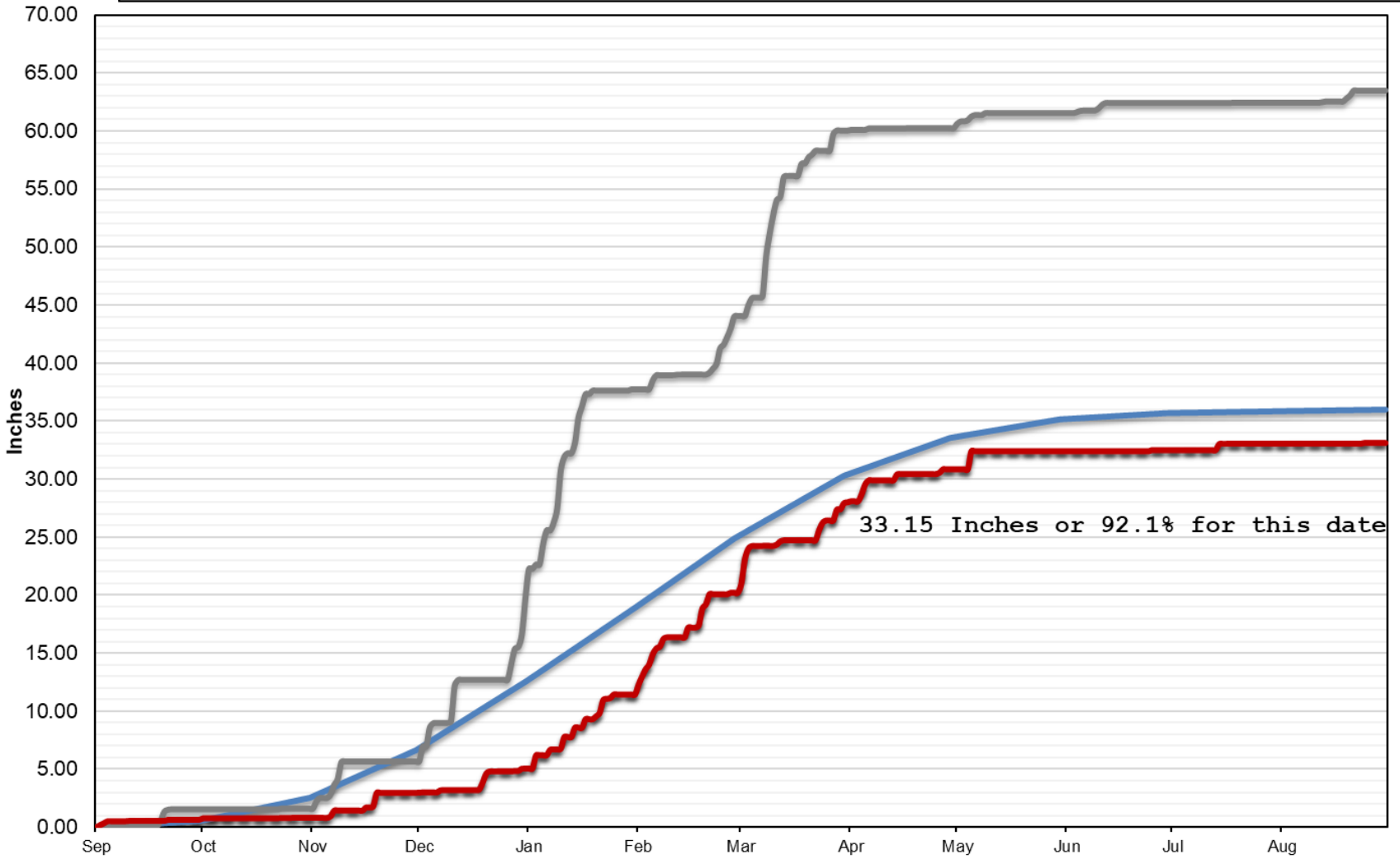
November 19, 2024

Tuolumne River Watershed Monthly Accumulation of Precipitation

■ Dry ■ Ave ■ Wet ■ 2023-2024

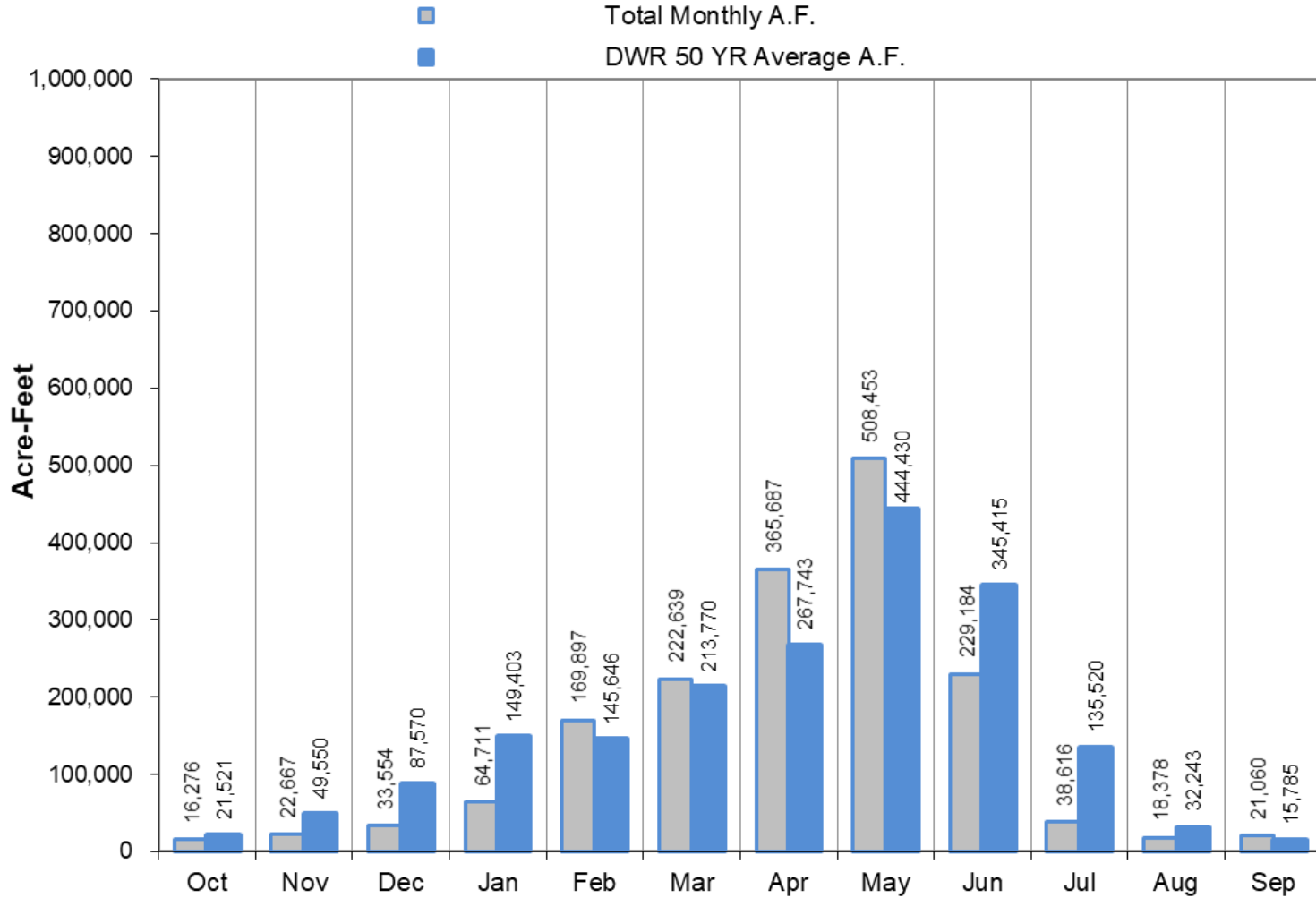


Tuolumne River Watershed Accumulated Precipitation

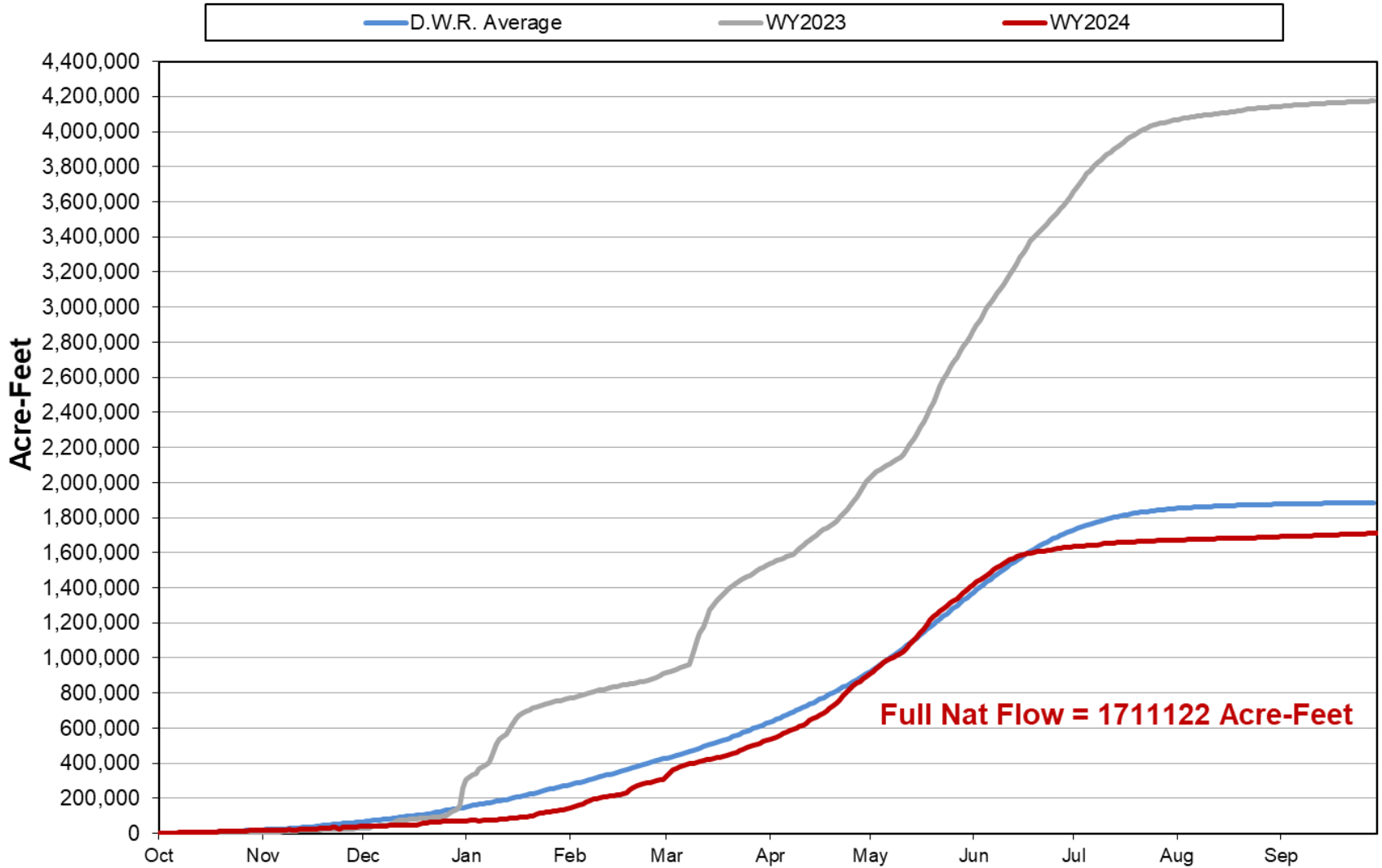


33.15 Inches or 92.1% for this date

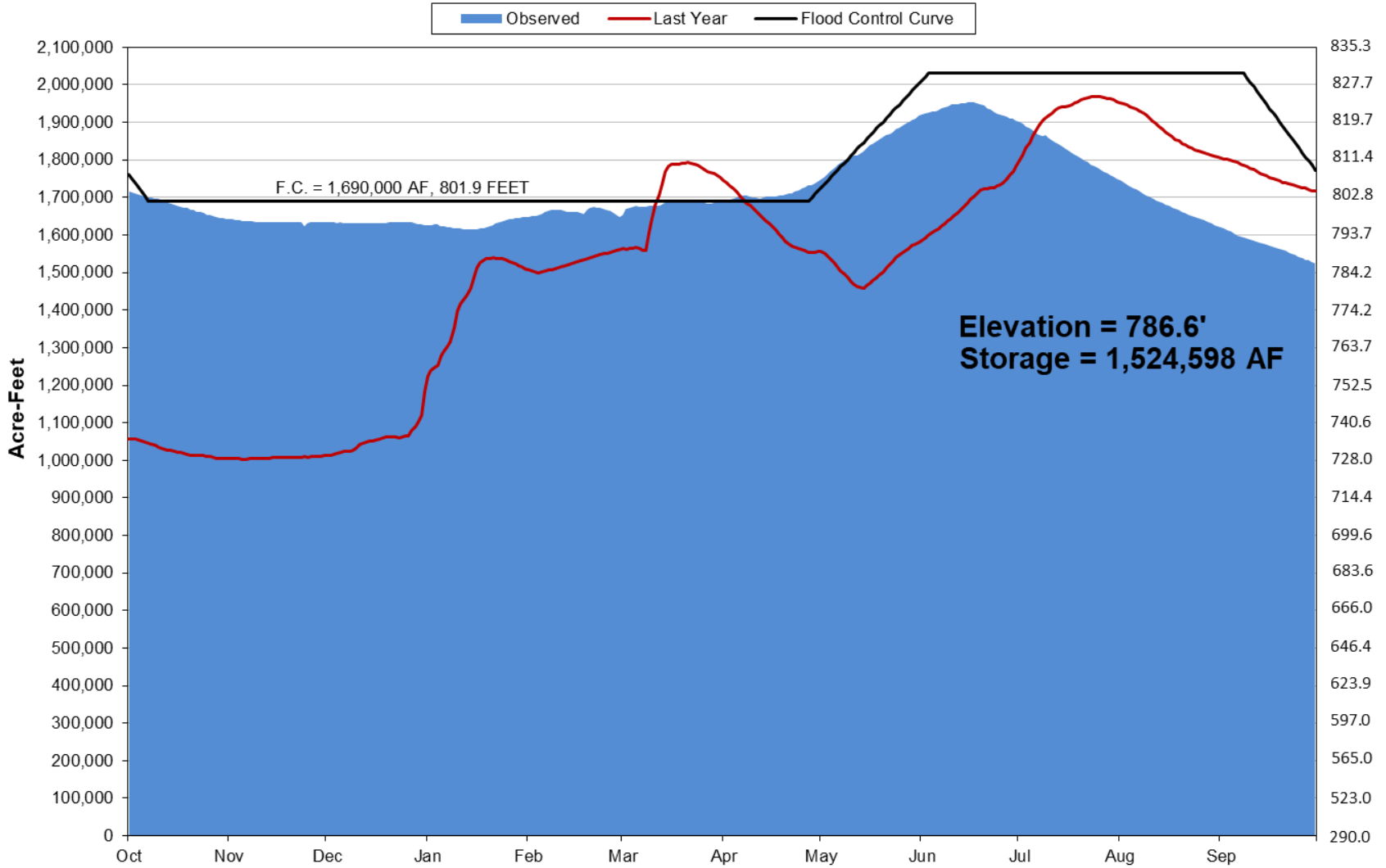
WY 2024 Monthly Full Natural Flow Distribution



Accumulated Full Natural Flow

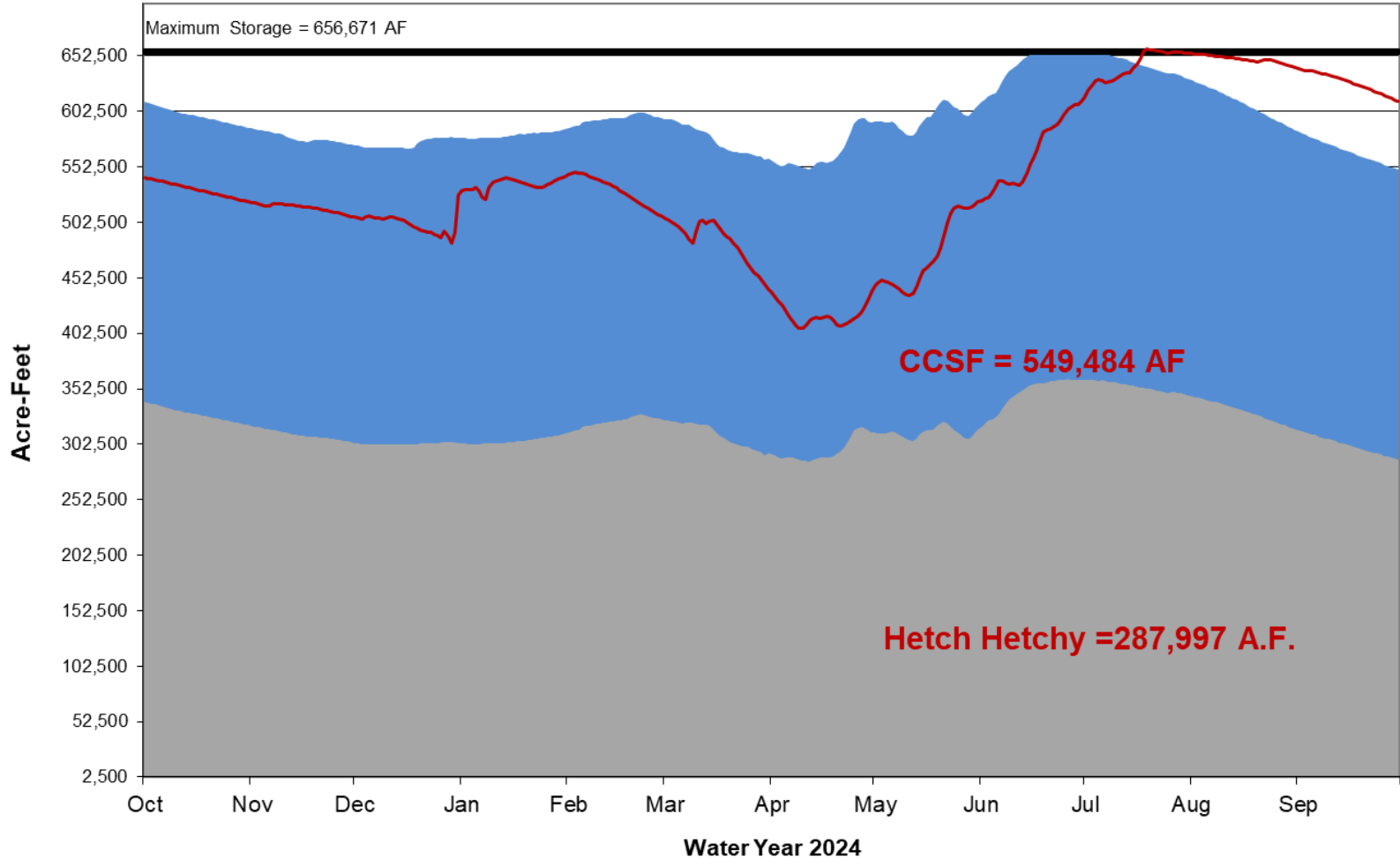


DON PEDRO STORAGE

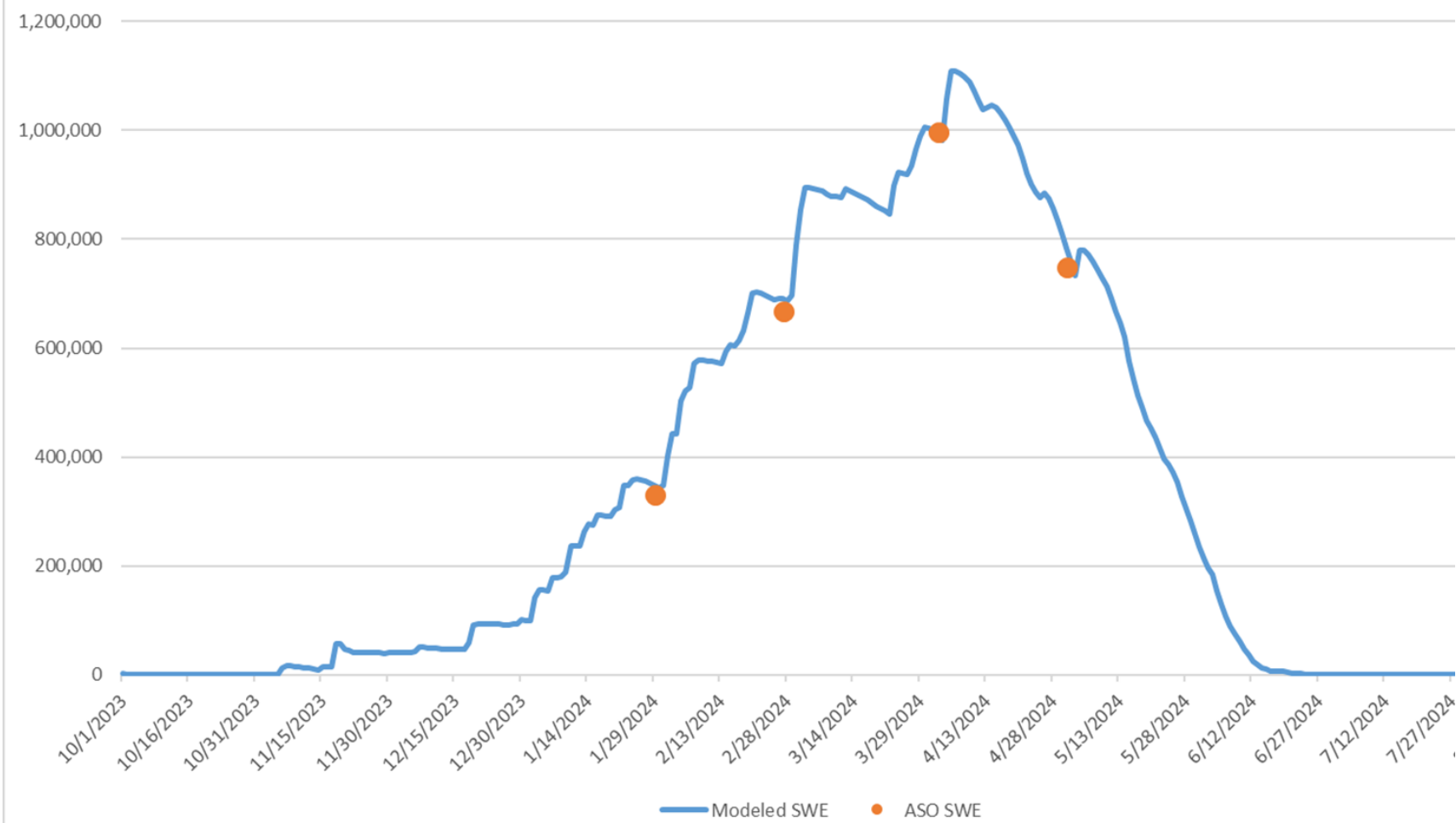


CCSF Total Storage

CCSF 2024 Hetch Hetchy Max Storage CCSF 2023



Tuolumne SWE





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2025 Water Year Outlook

Official NOAA CPC ENSO Probabilities (issued October 2024)

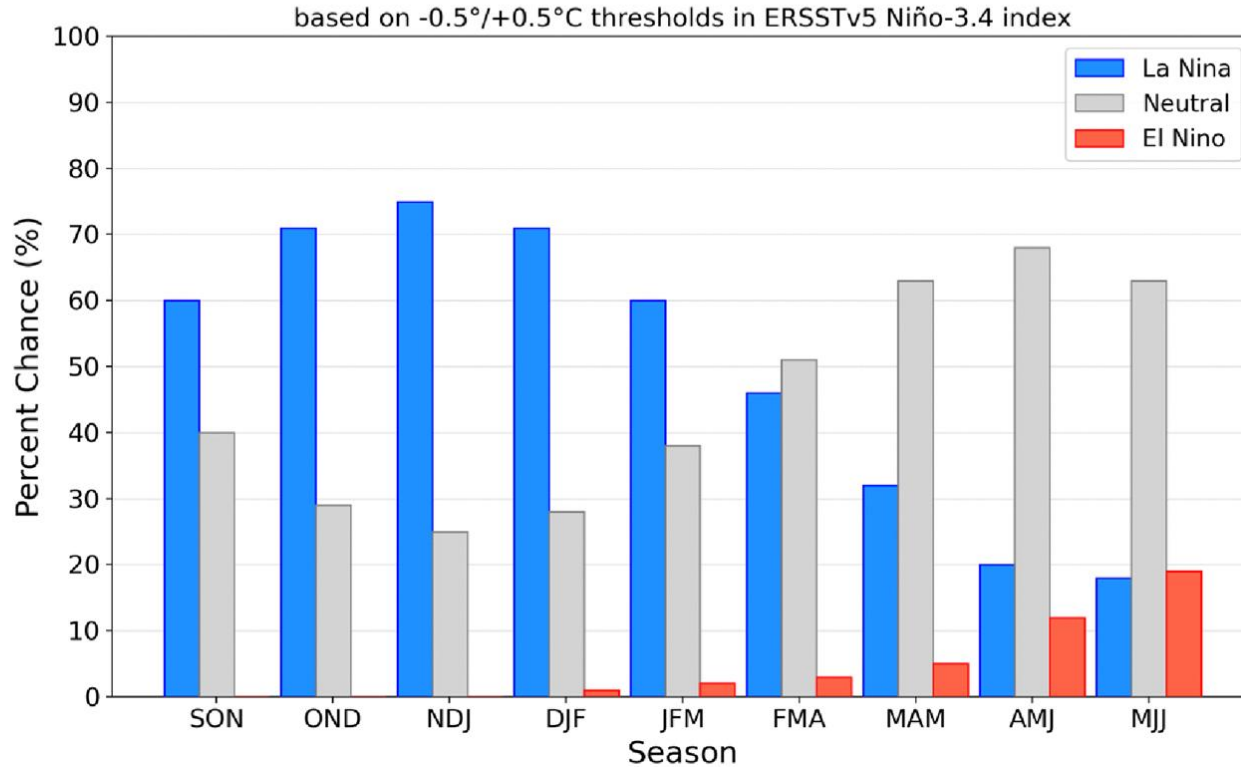
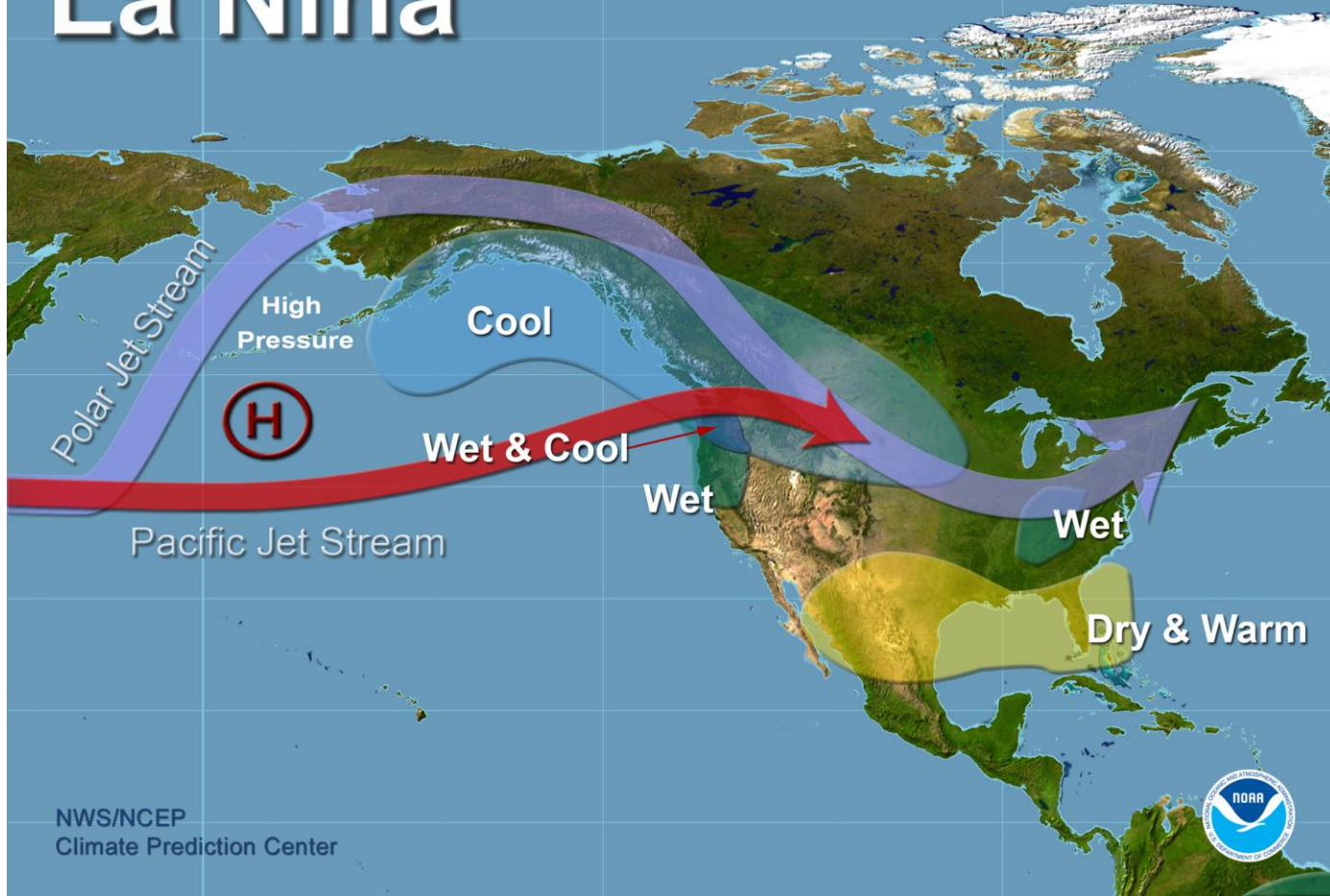


Figure 7. Official ENSO probabilities for the Niño 3.4 sea surface temperature index (5°N - 5°S , 120°W - 170°W). Figure updated 10 October 2024.

Typical Wintertime Pattern

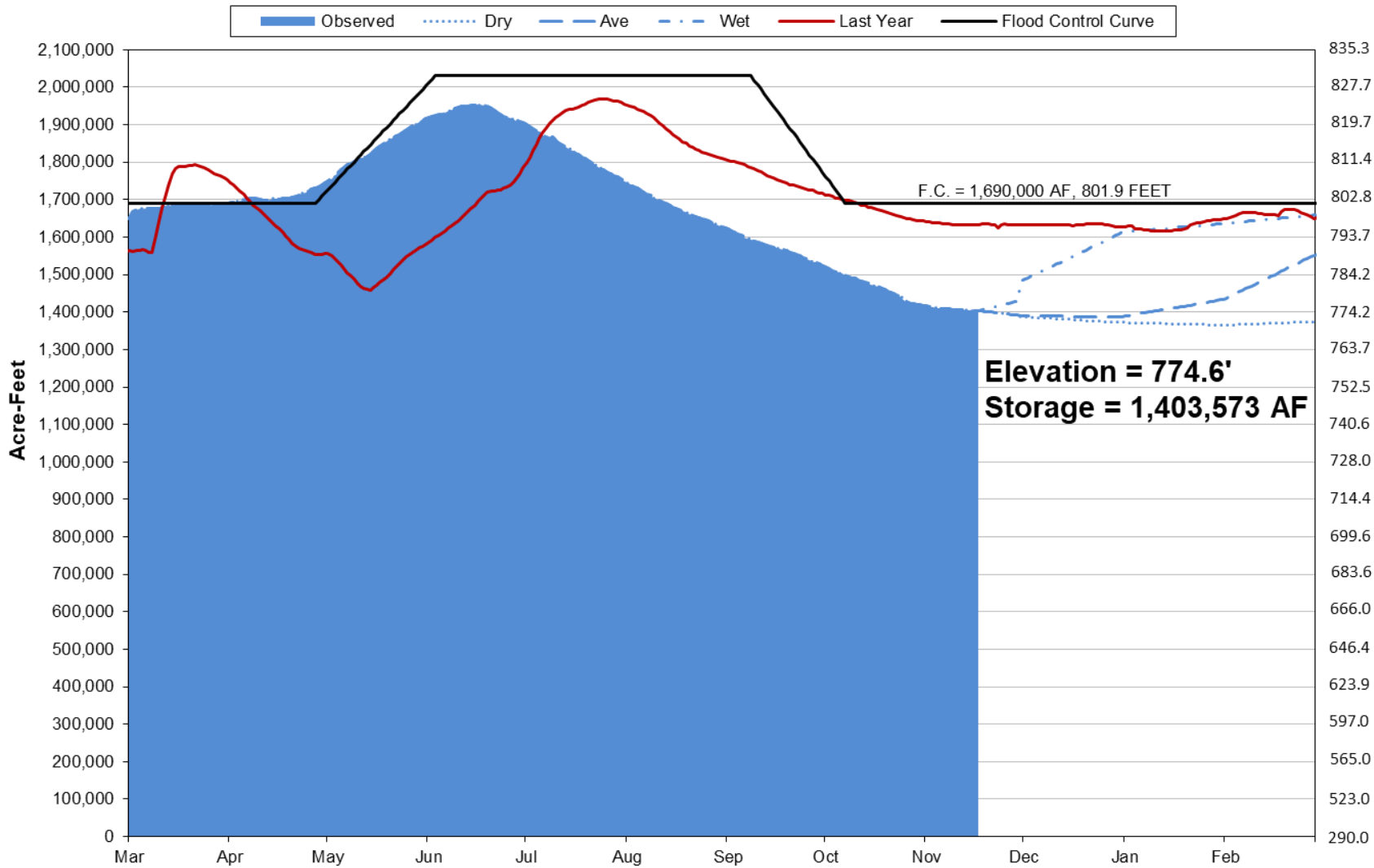
La Niña



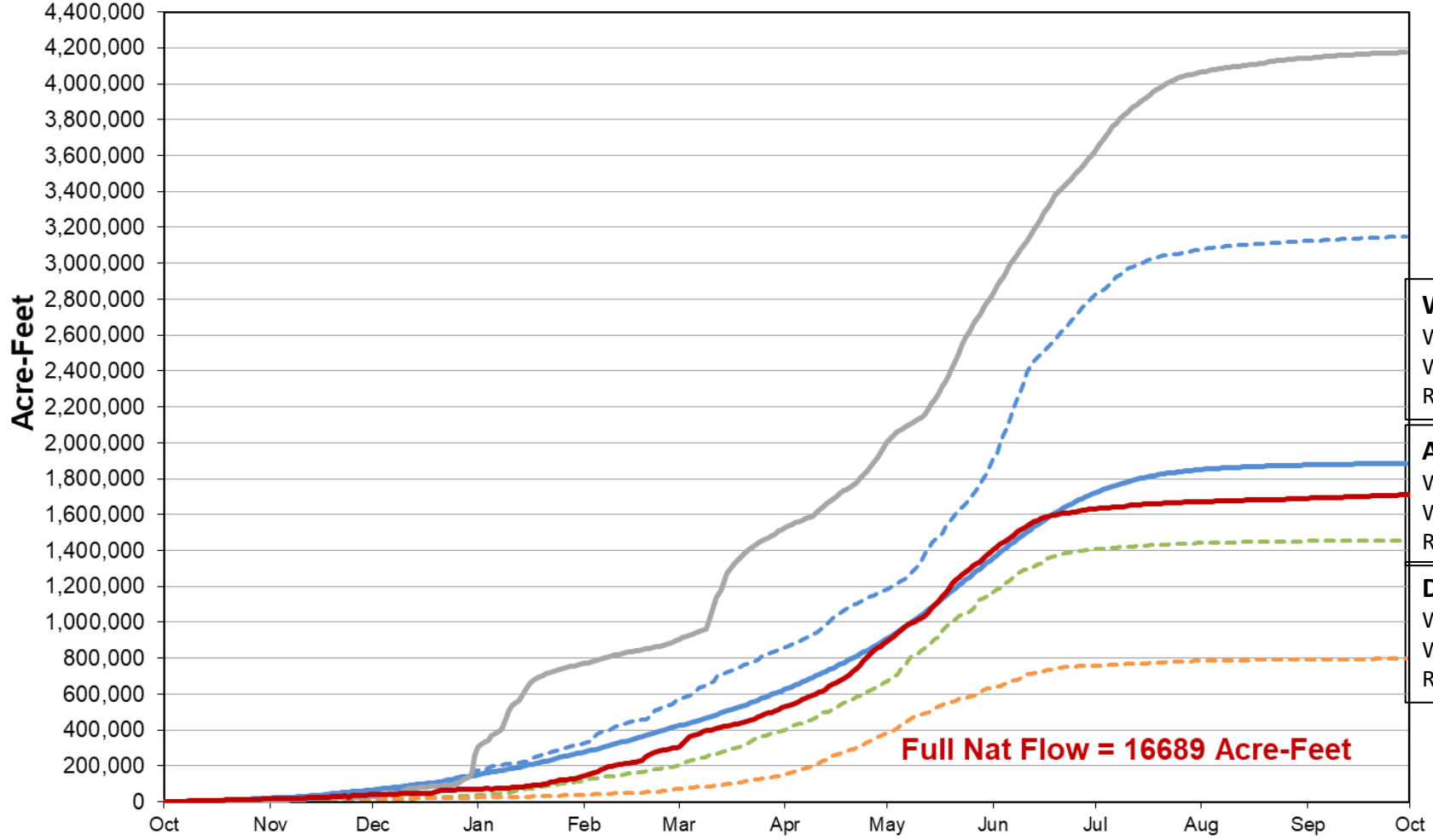
NWS/NCEP
Climate Prediction Center



DON PEDRO STORAGE



Accumulated Full Natural Flow



Wet
WY: 3,147,032 af
WY %: 164.9%
Rainfall: 54.4 in
Ave
WY: 1,457,238 af
WY %: 76.4%
Rainfall: 36.1 in
Dry
WY: 796,300 af
WY %: 41.7%
Rainfall: 23.6 in

Full Nat Flow = 16689 Acre-Feet



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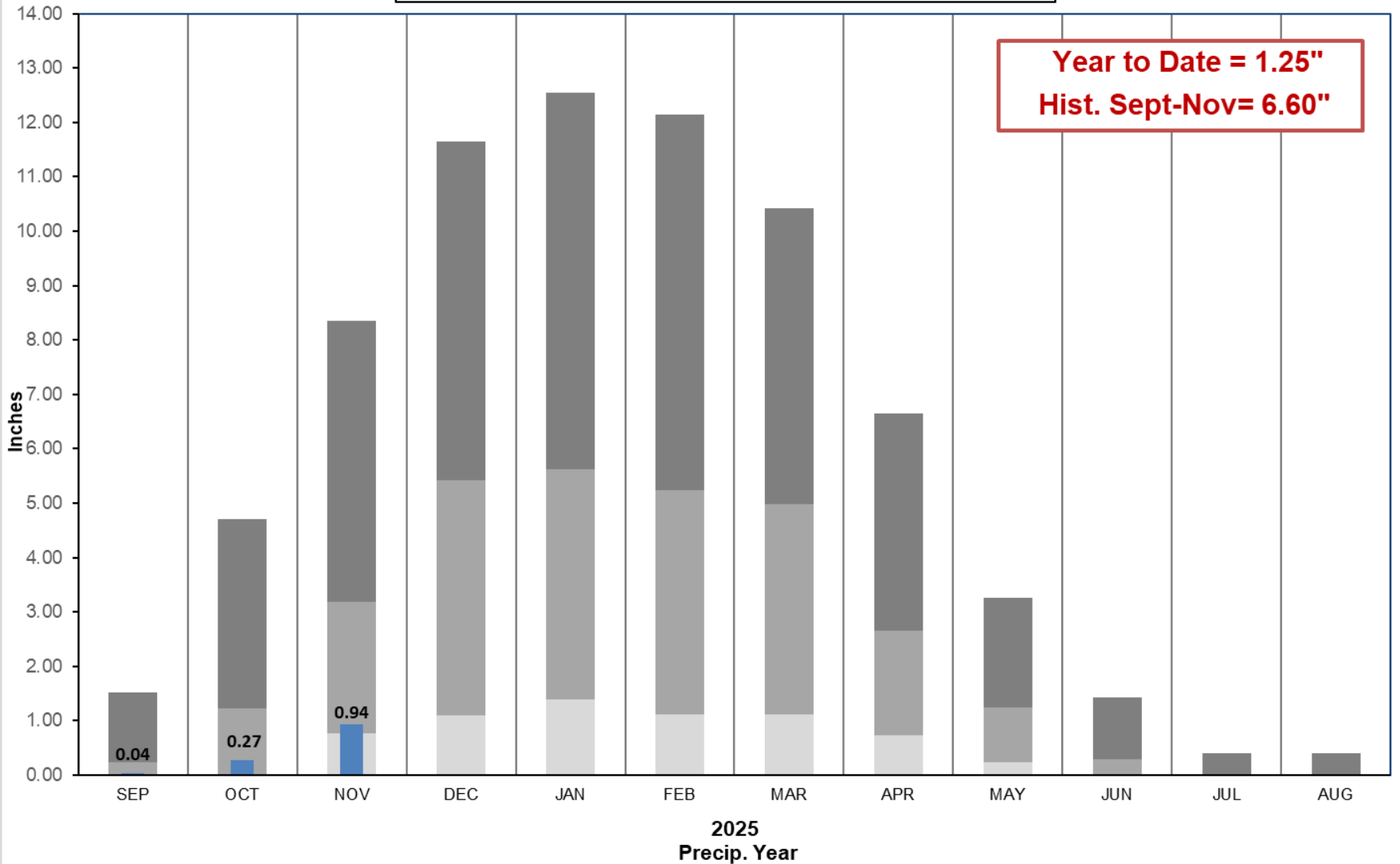
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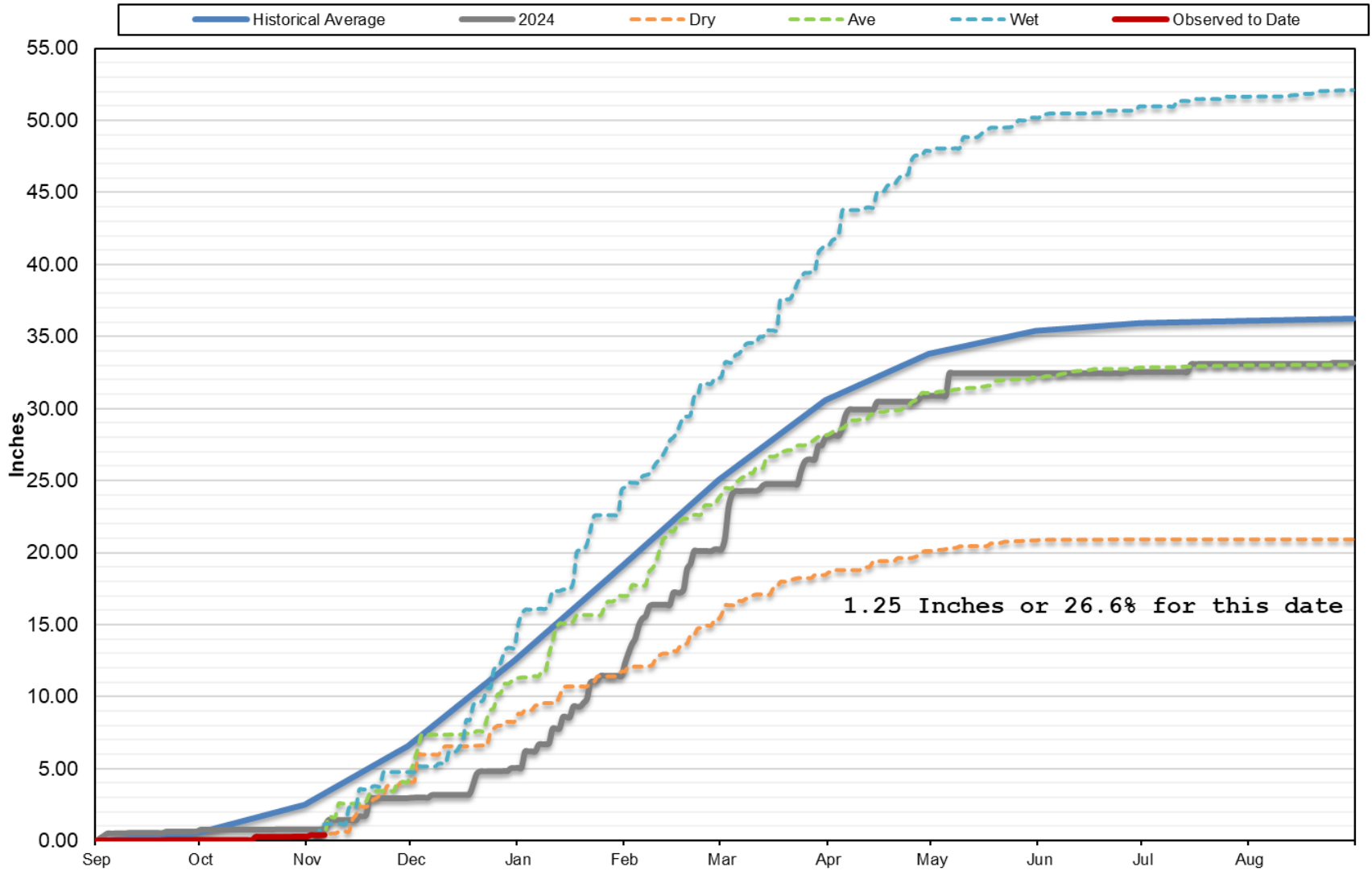
Hydrology Report

Tuolumne River Watershed Monthly Accumulation of Precipitation

■ Dry ■ Ave ■ Wet ■ 2024-2025



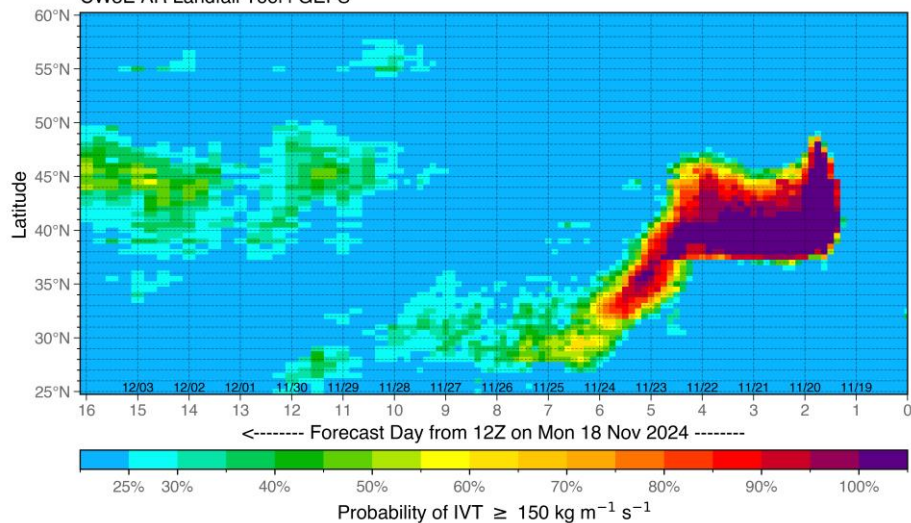
Tuolumne River Watershed Accumulated Precipitation



9-Day Local Forecast (Turlock)

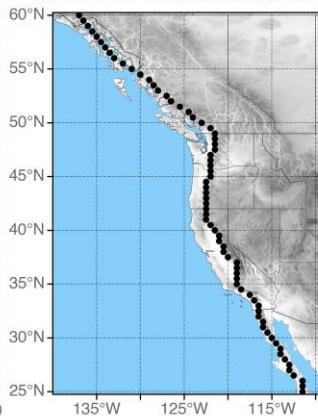
Date	11/19	11/20	11/21	11/22	11/23	11/24	11/25	11/26	11/27
Precip (in)	0	0	0	0.52	0.36	0.11	0.08	0	0.27
Temp (max) (min)	60 45	64 48	71 46	65 52	60 47	60 44	60 41	58 39	58 37

CW3E AR Landfall Tool | GEFS

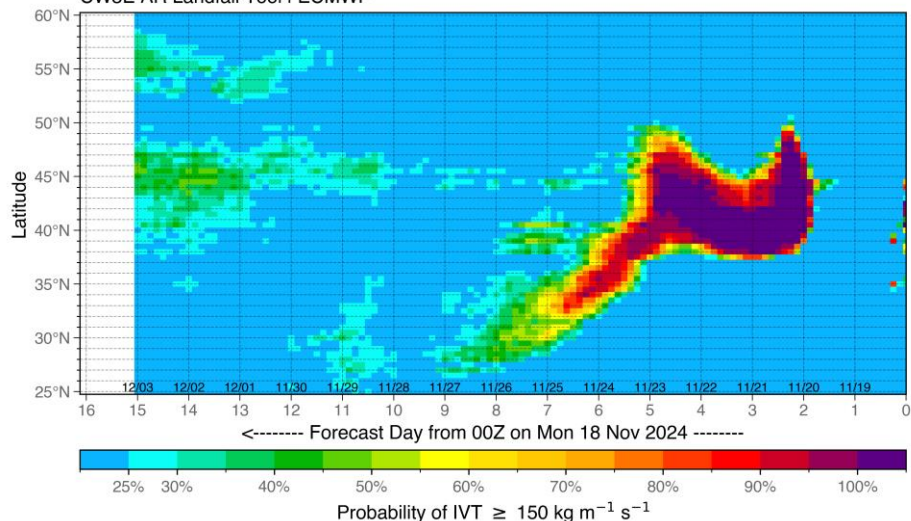


Forecasts support FIRO/CA-AR Program and NSF #2052972 | Intended for research purposes only

Model Run: 12Z Mon 18 Nov 2024



CW3E AR Landfall Tool | ECMWF



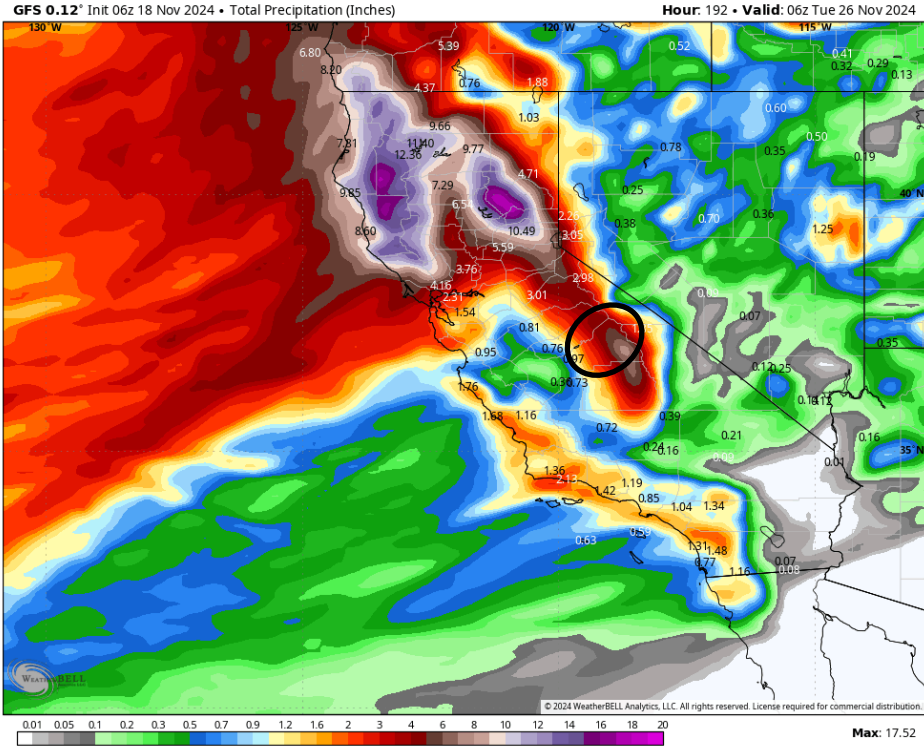
Forecasts support FIRO/CA-AR Program and NSF #2052972 | Intended for research purposes only

Model Run: 00Z Mon 18 Nov 2024

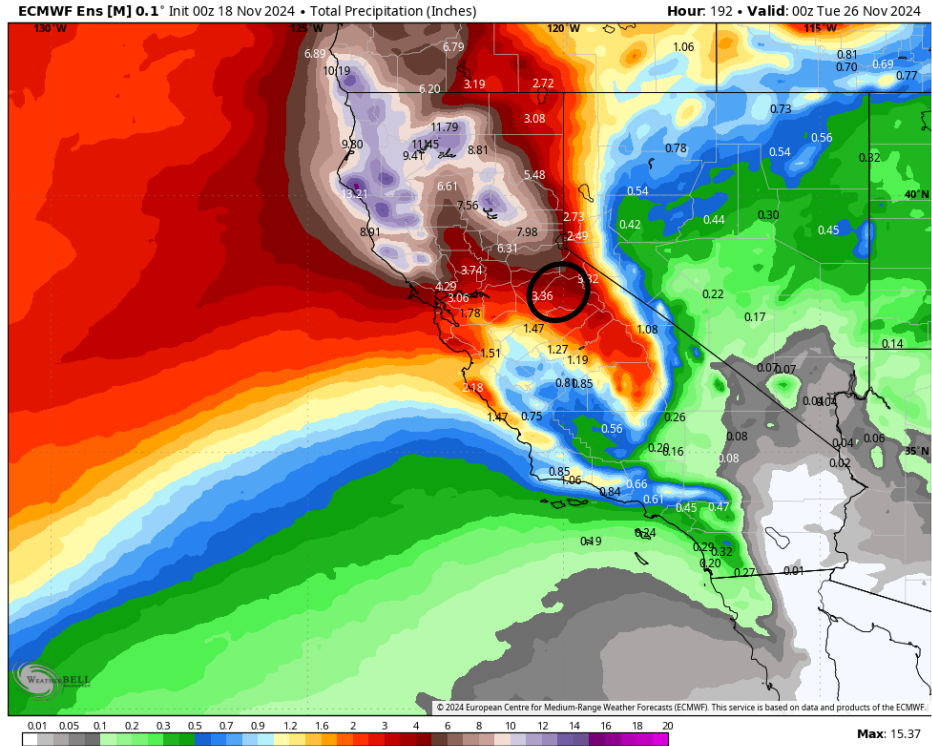


8 Day Precipitation Forecast

US MODEL

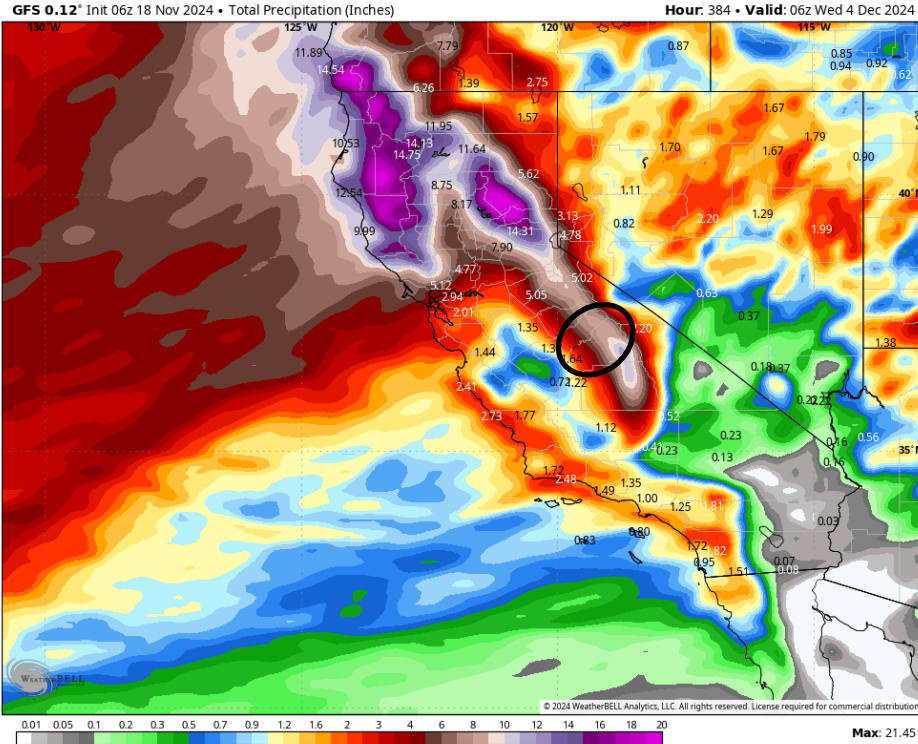


EURO MODEL

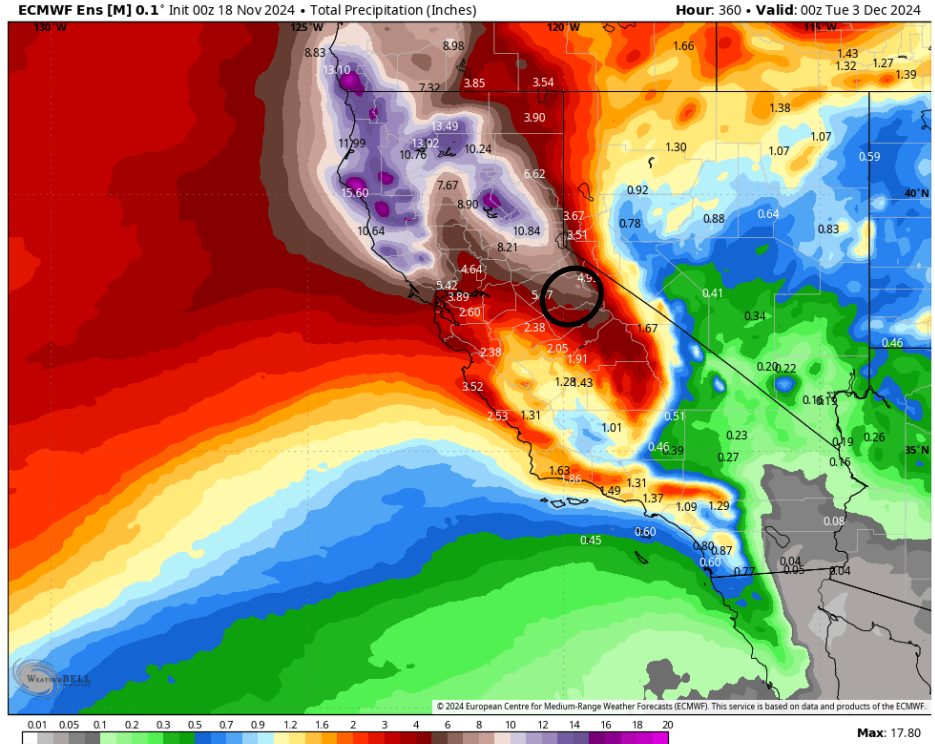


16 Day Precipitation Forecast

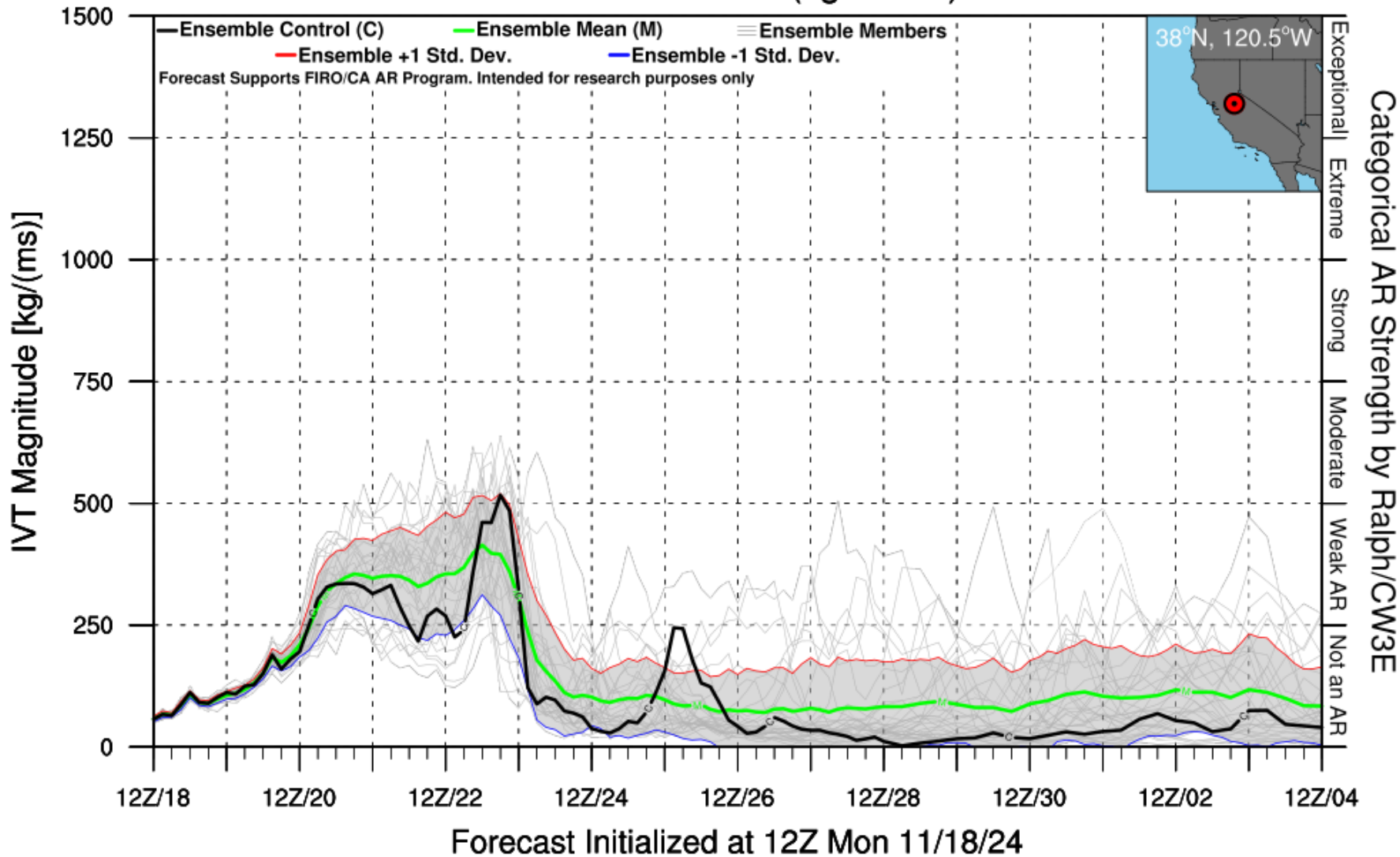
US MODEL



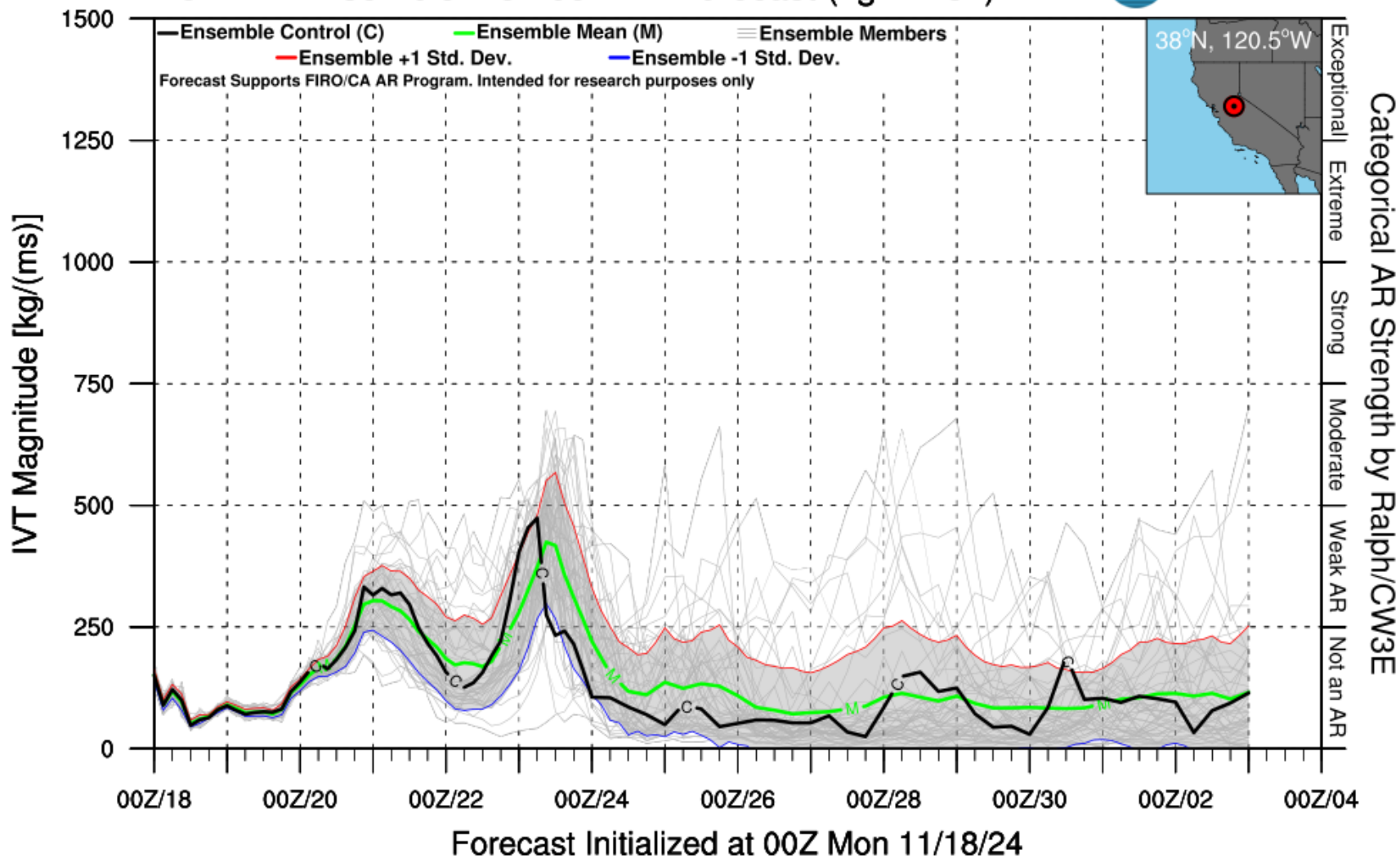
EURO MODEL



GEFS Ensemble Member IVT Forecast ($\text{kg m}^{-1} \text{s}^{-1}$)

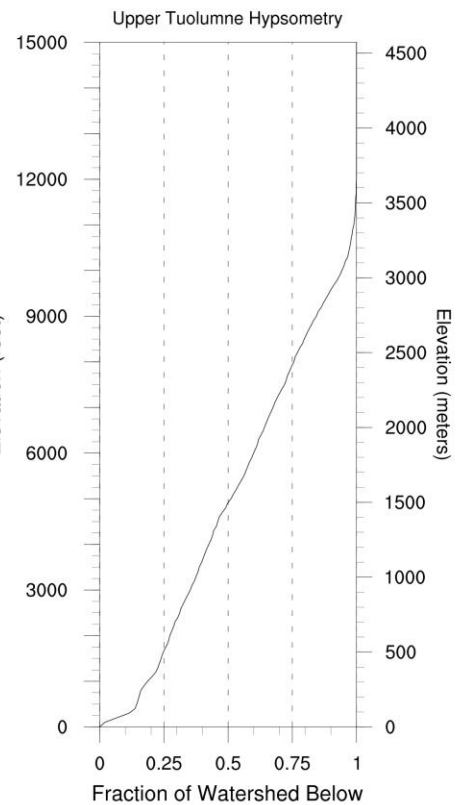
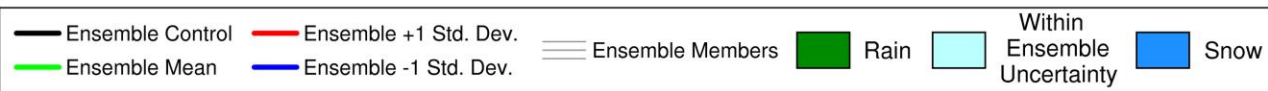
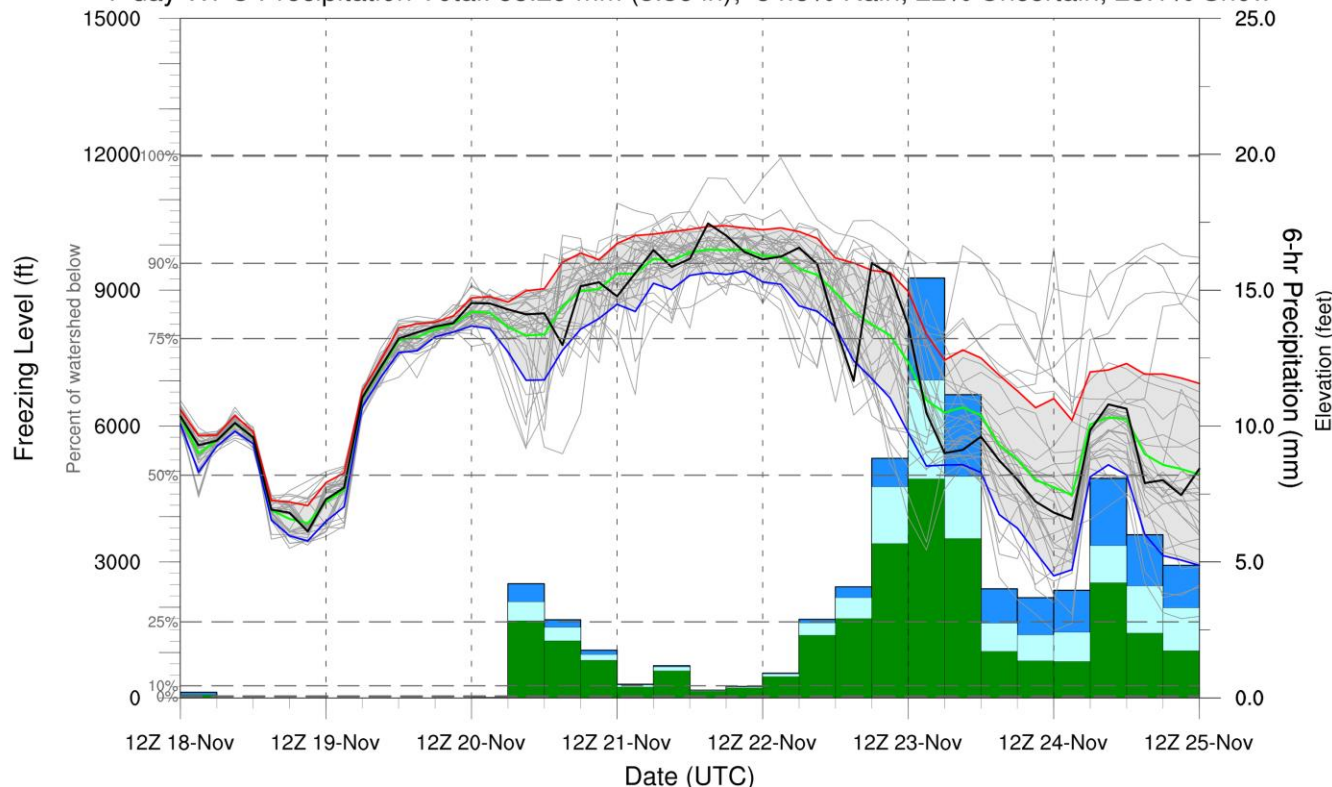


ECMWF Ensemble Member IVT Forecast ($\text{kg m}^{-1} \text{s}^{-1}$)



Upper Tuolumne; GEFS Forecast Initialized 2024-Nov-18 12 UTC

7-day WPC Precipitation Total: 85.29 mm (3.36 in); 54.8% Rain, 22% Uncertain, 23.1% Snow



Center for Western Weather and Water Extremes

TID HFAM Forecasted Watershed Conditions

