



Field Headquarters Recharge Operations Update



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Director of Recharge and Wetland Operations

February 19, 2025

Surface Recharge System

- 1,600 acres
 - 1,100 'wet' acres
- 30 recharge facilities
 - 4 joint OCFCD
- 25,000 AF storage
- 11 pump stations
- 4 rubber dams

Operational Priorities

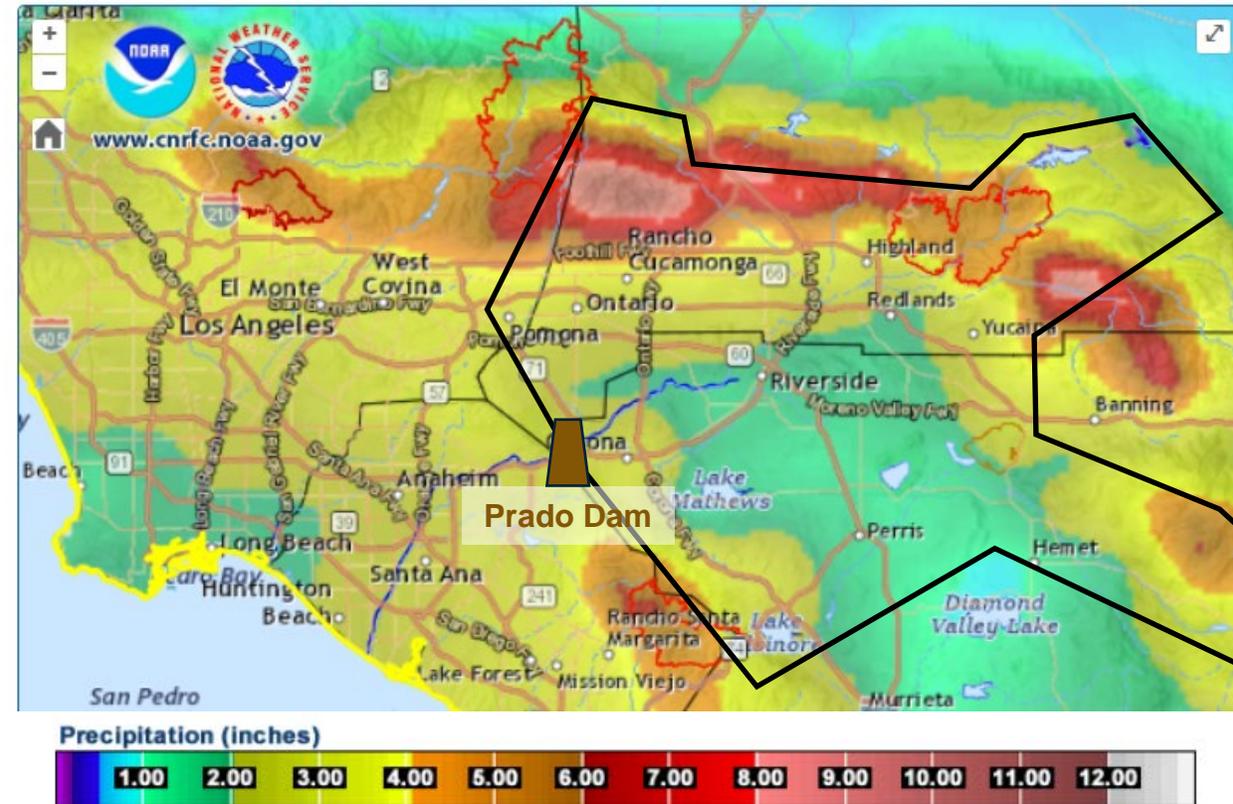
1. Percolation
2. Storage



Last Week's Rain

- 2.5 inches forecast in Anaheim
- 3.2 inches observed in Anaheim
- 10,000 cfs peak flow into Prado Dam
- 15,995 AF of stormwater captured
 - 14,415 AF Prado Dam
 - 1,580 AF Local (below Prado Dam)
 - ~Mesa Water's 1-year water supply
 - ~\$16 million worth of water

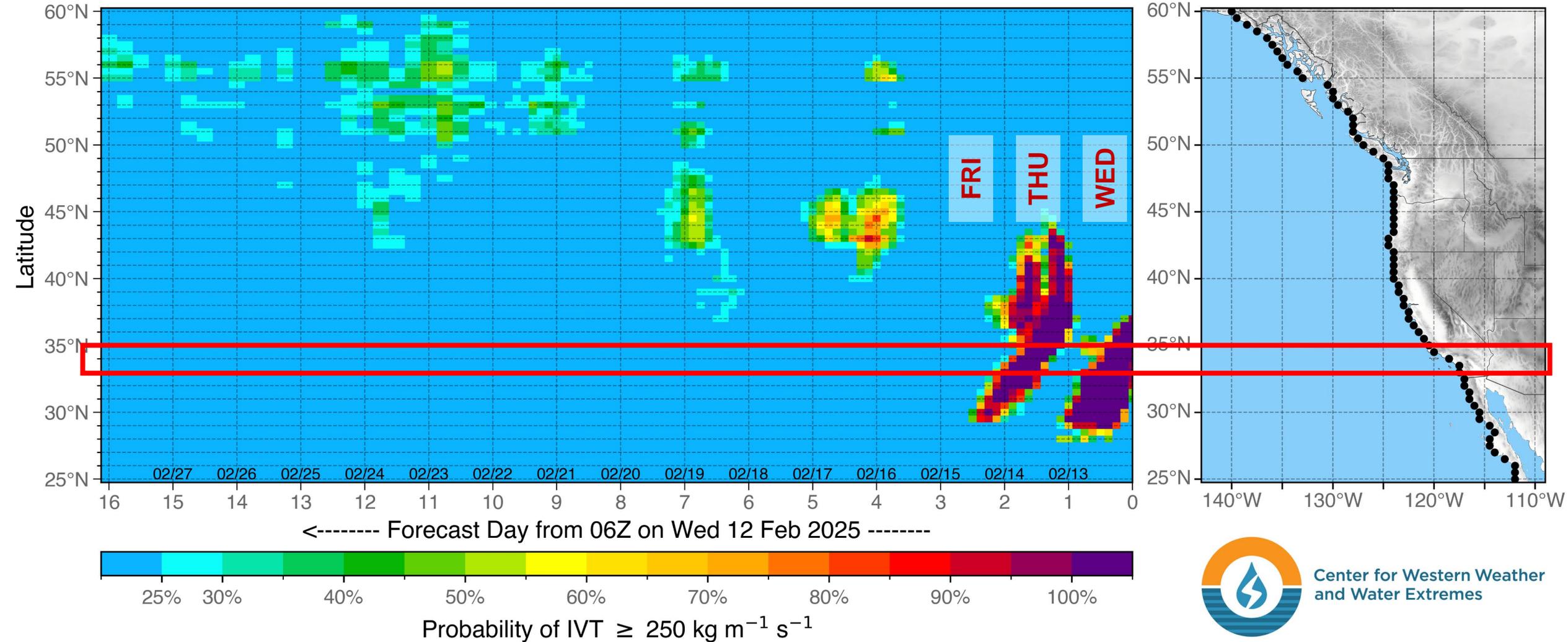
Observed Precipitation



Atmospheric Rivers

CW3E AR Landfall Tool | GEFS

Model Run: 06Z Wed 12 Feb 2025



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

300 cfs Into Burris Basin



Annual FHQ (Anaheim) Rainfall

- Wet in NorCal

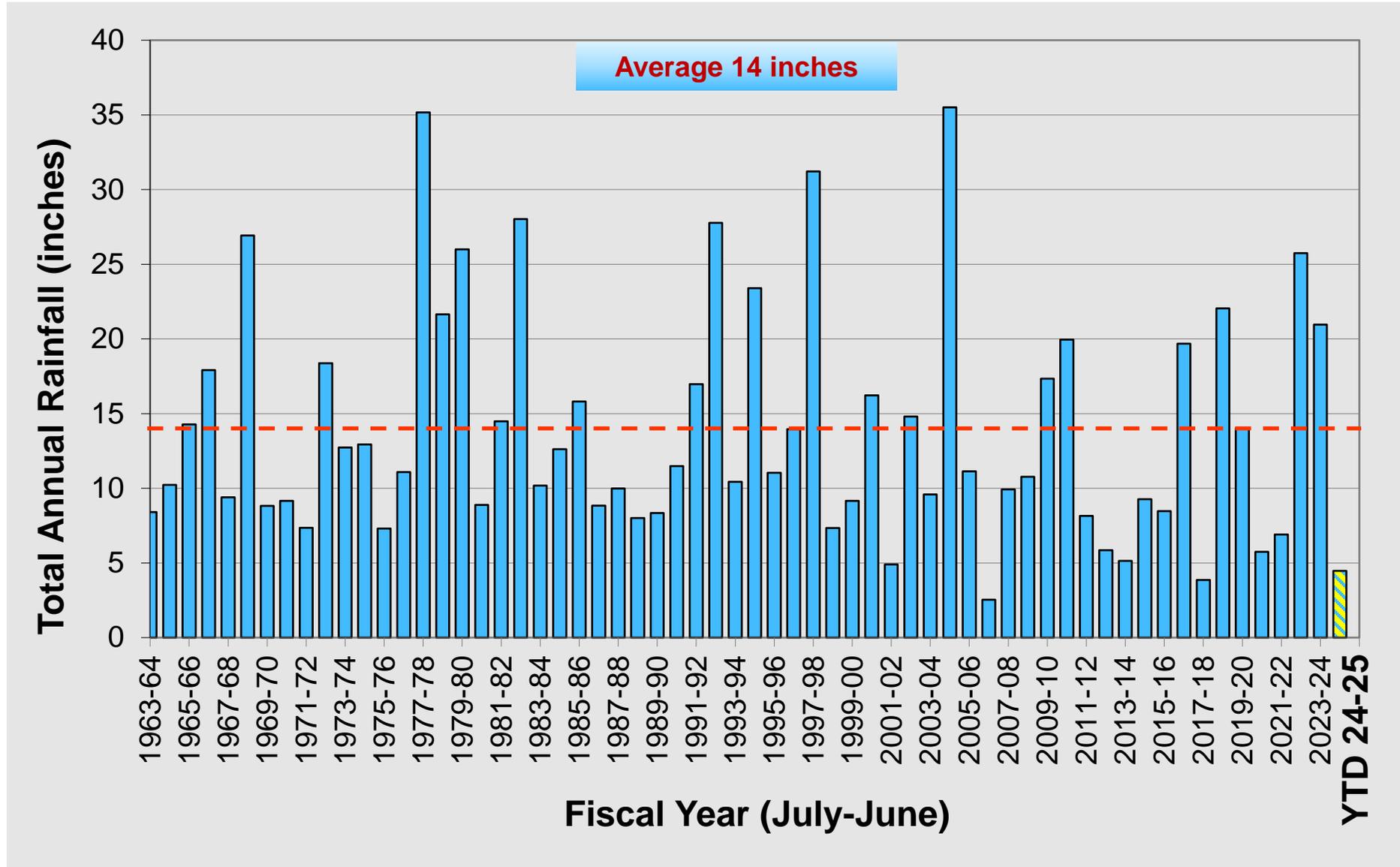
- Dry in SoCal

- YTD through 1/31

- 2nd Driest Year

- YTD through 2/19

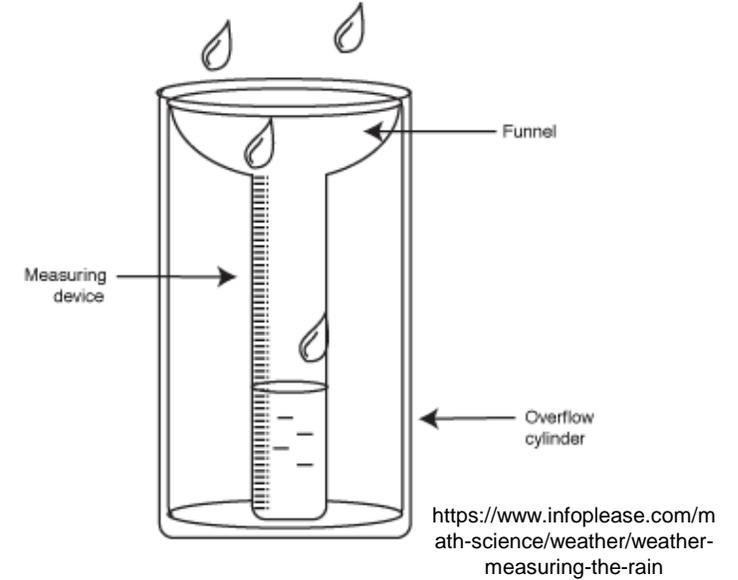
- 9th Driest Year



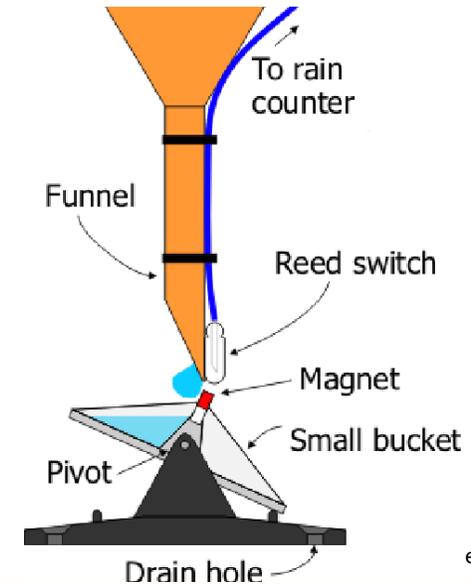
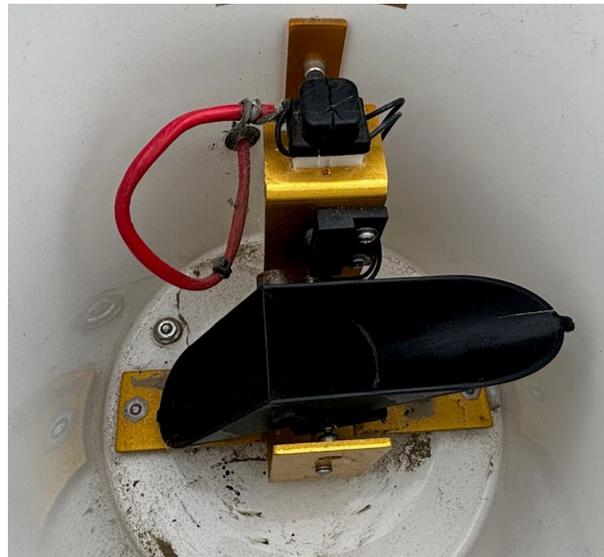
Measuring Rainfall

Two FHQ Rain Gauges

1. Daily reading
(human)

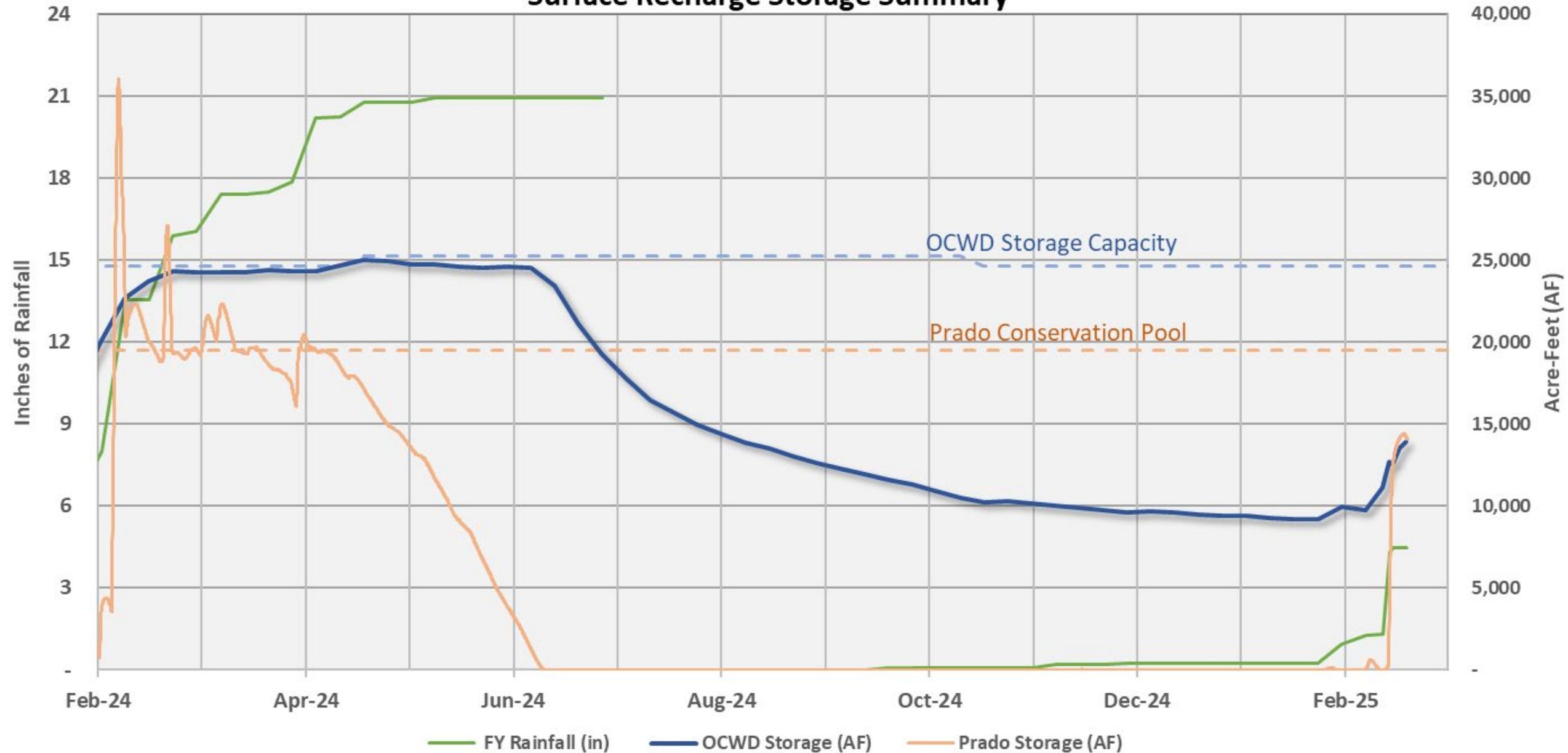


2. Tipping bucket
(SCADA, real-time)



Raghava, Tarun Karuturi Venkata and Suhas P. Wani. "Internet enabled tipping bucket rain gauge."

Surface Recharge Storage Summary

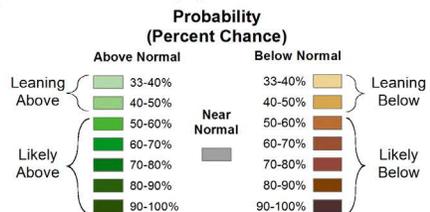
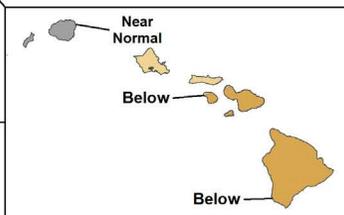
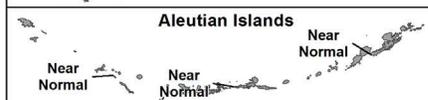
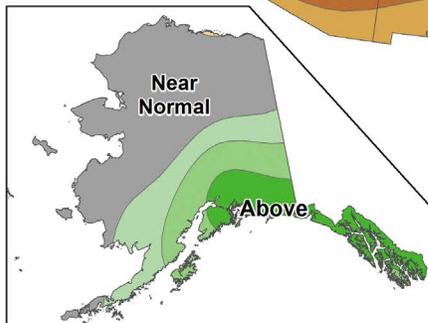
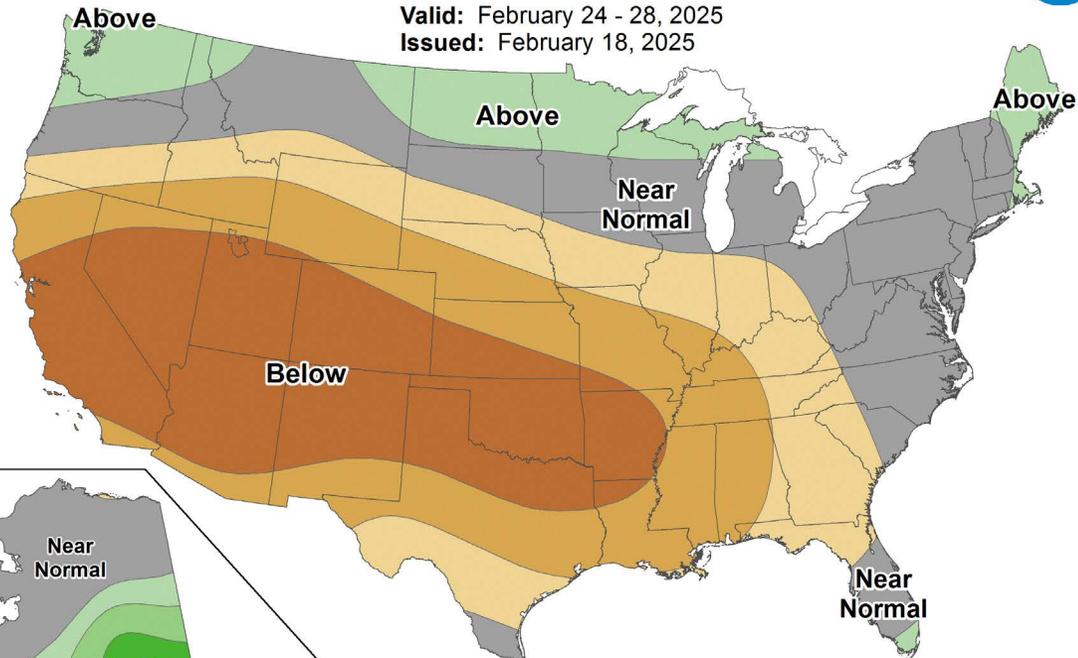




6-10 Day Precipitation Outlook



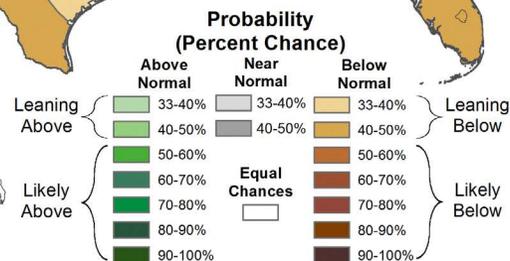
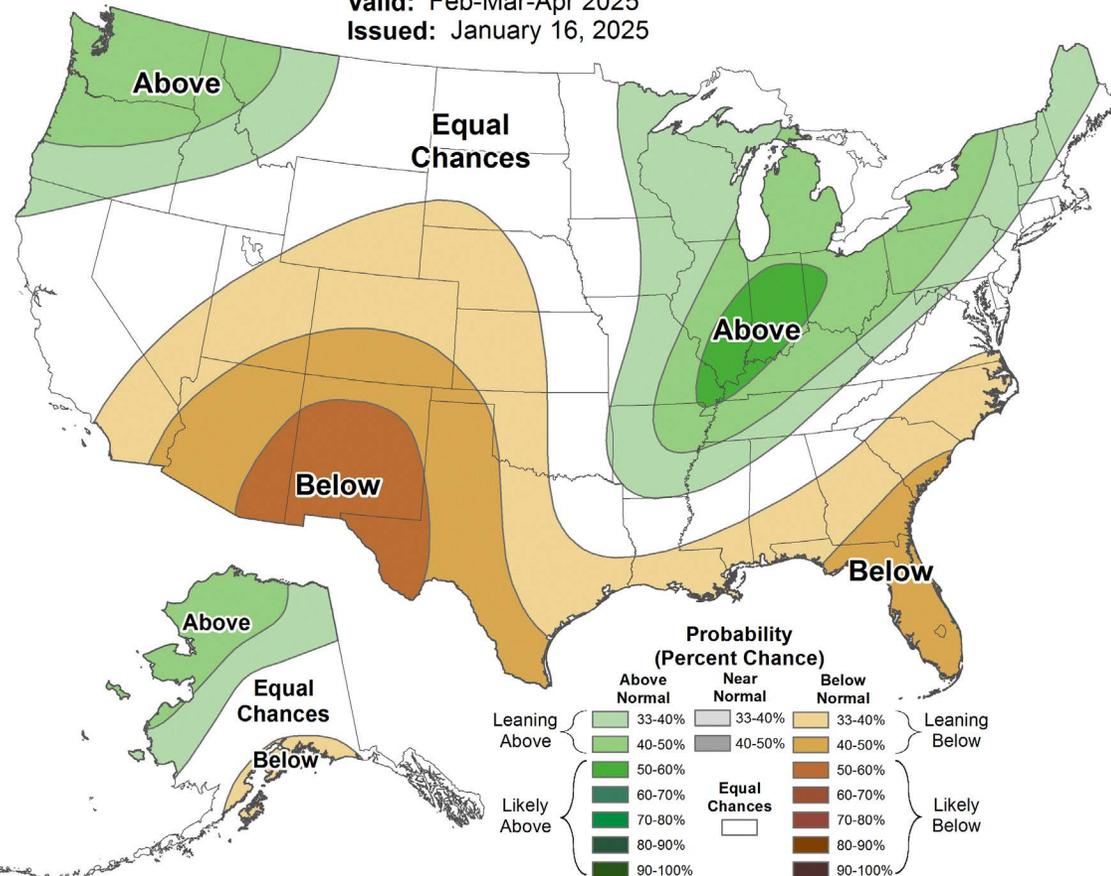
Valid: February 24 - 28, 2025
Issued: February 18, 2025



Seasonal Precipitation Outlook



Valid: Feb-Mar-Apr 2025
Issued: January 16, 2025



Questions?

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Stay informed

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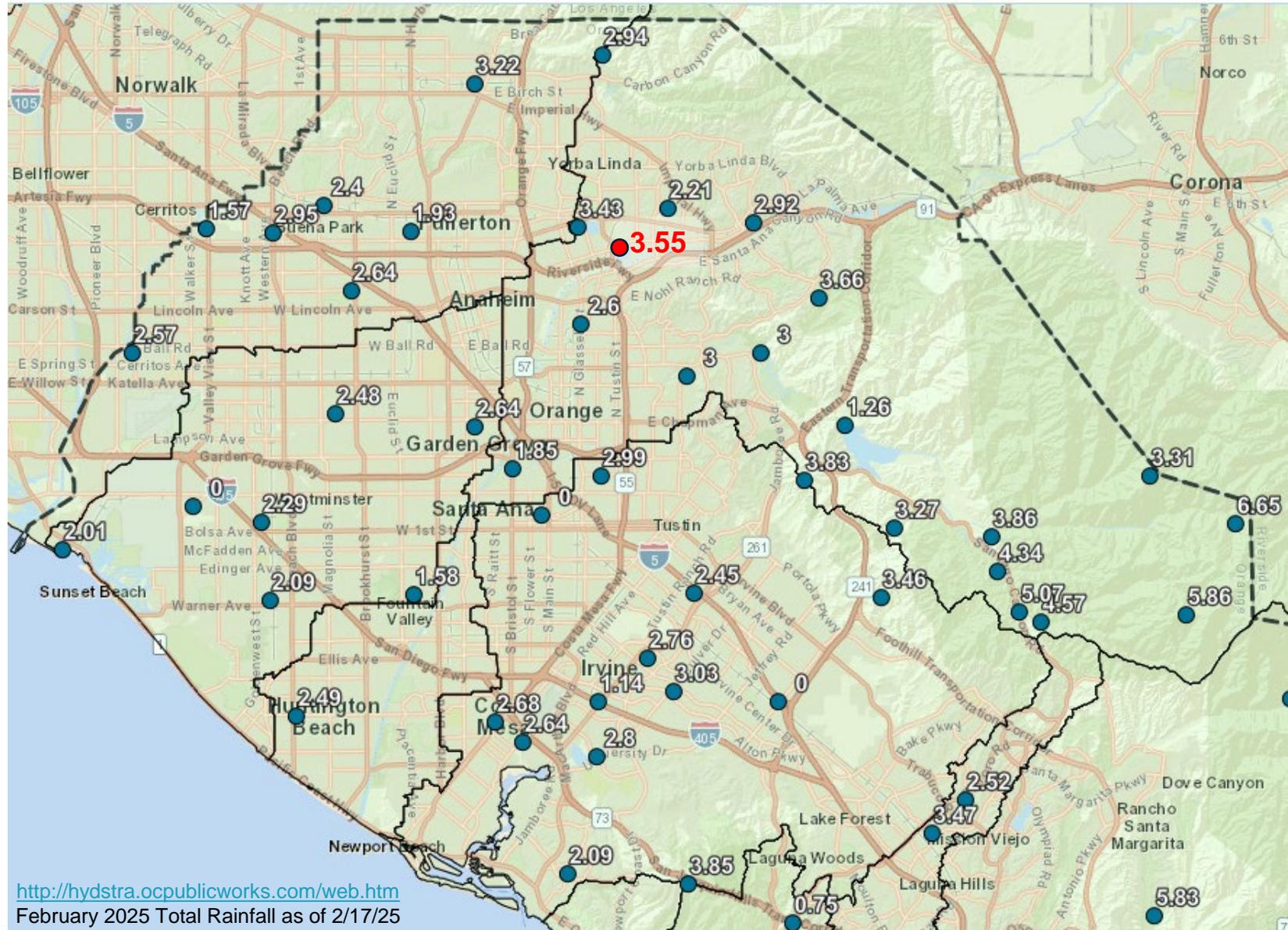
18700 Ward St.
Fountain Valley, CA 92708

@OCWaterDistrict
f i n @ d X v

County of Orange Rain Gauges

ALERT Weather System

- Automated Local Evaluation in Real Time (ALERT)
- OC Public Works, Environmental Resources



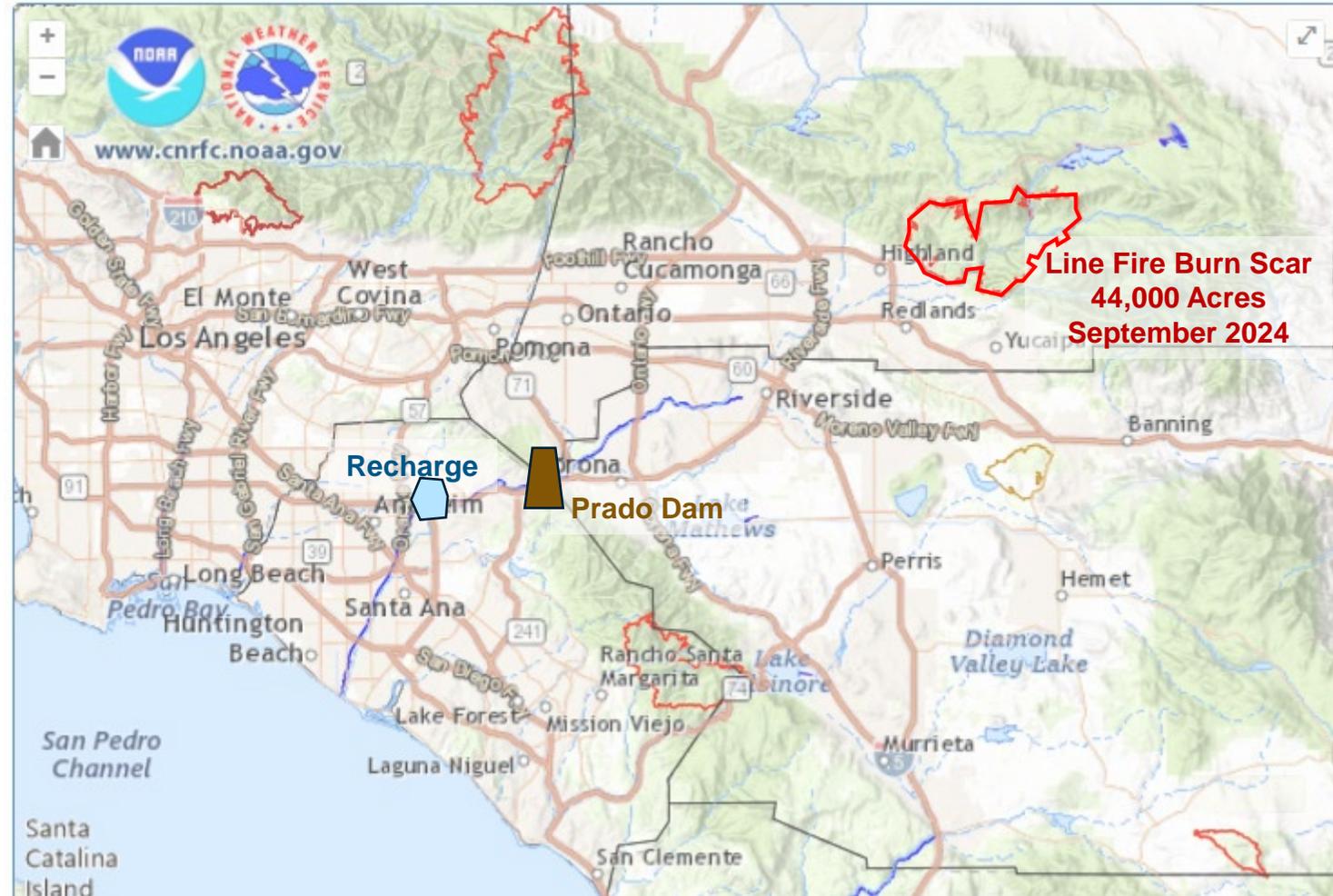
Who Does The Work



Field Headquarters and Prado Operations Staff

Burn Scar Sediment

- Thursday, 2/13
 - Heavy rain, No sediment concern
 - TSS ~70 mg/L
- ♥ Friday, 2/14
 - Prado filling, Releasing to Recharge
 - No sediment concern AM, TSS ~80 mg/L
 - Sediment concern PM, TSS ~2,000 mg/L
- Saturday, 2/15
 - Decrease Prado release, Settle at Prado
 - Protect Recharge Basins, TSS ~800 mg/L
- Sunday, 2/16
 - Settle at Prado, TSS ~350 mg/L
- 👤 Monday, 2/17
 - Settle at Prado, TSS ~250 mg/L
- Tuesday, 2/18
 - Increase Prado release, TSS ~180 mg/L



TSS = Total Suspended Solids

Burn Scar Sediment

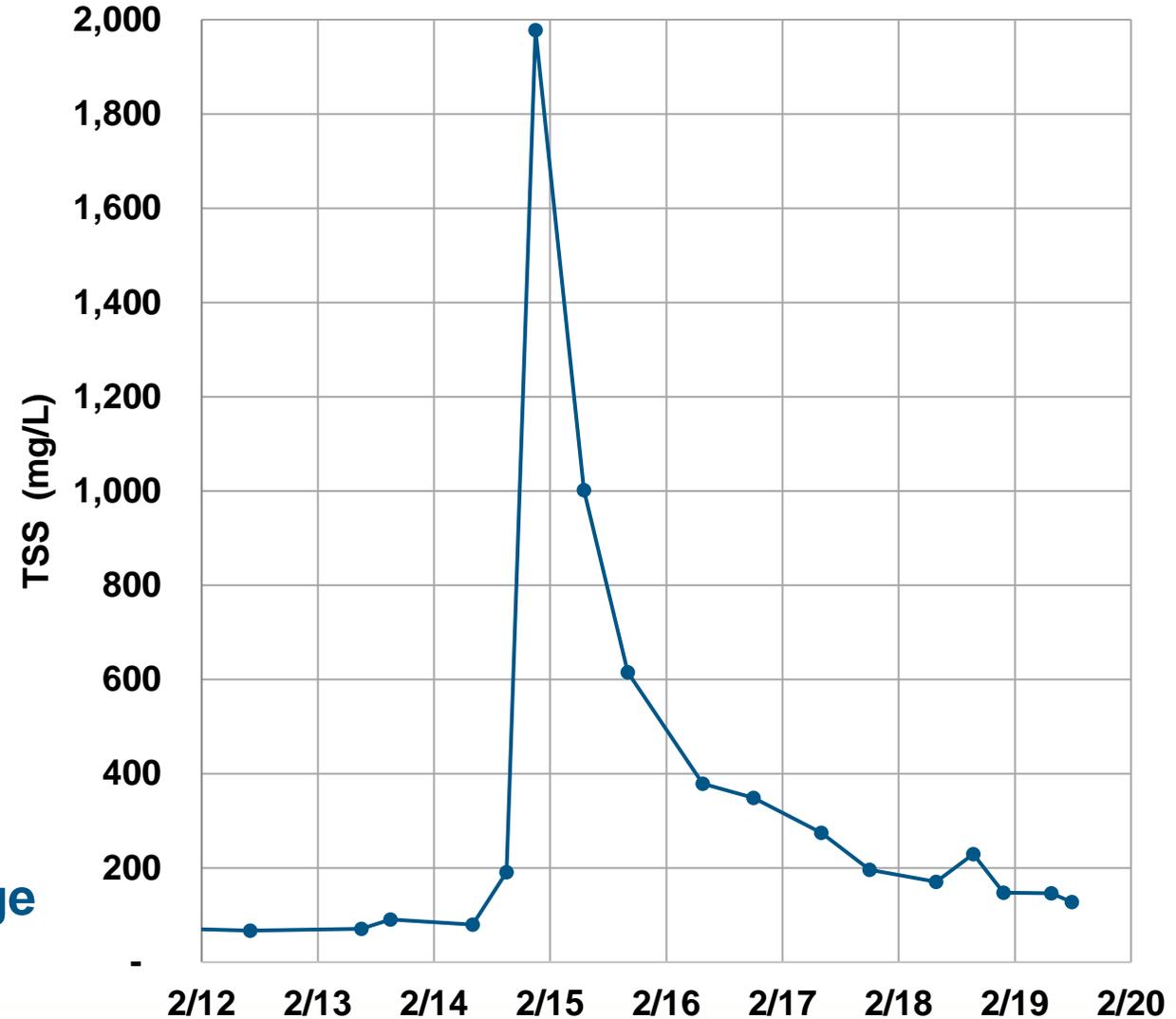


**Plunge Creek, Friday 2/13 AM
(30 miles upstream of Prado)**



**Prado Dam Discharge
Friday 2/13 PM**

River Sediment at Imperial

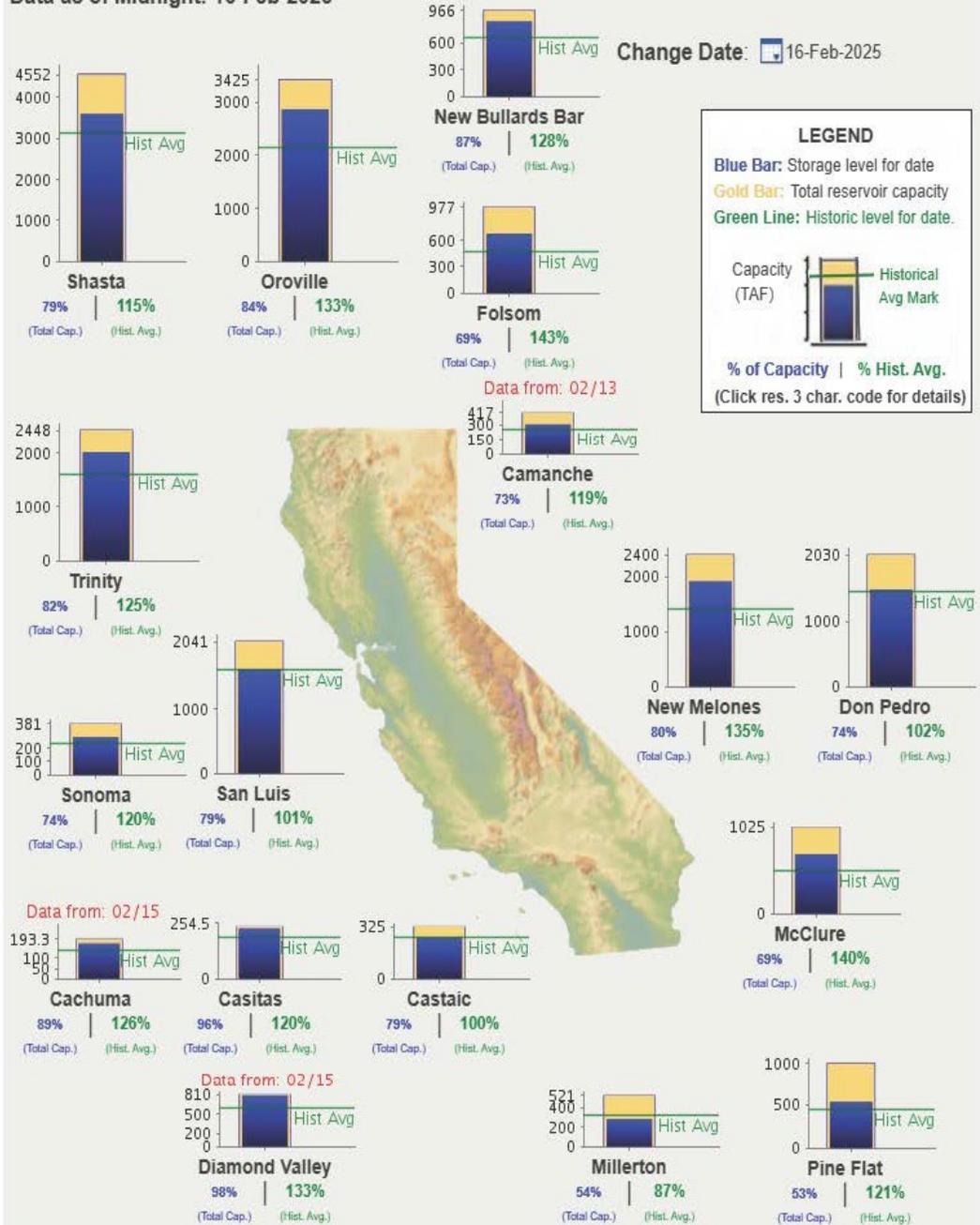


Current Storage

Basin	AF in Storage	Source
Prado Dam	14,082 (72%)	SAR
Santiago Basin	6,314 (47%)	SAR
Warner System	3,960 (96%)	SAR
Burris Basin	2,155 (86%)	SAR
Anaheim Lake	436 (19%)	SAR
Upper, Lower Five Coves	239 (89%)	SAR
Kraemer, Miller, Miraloma Basins	427 (32%)	GWRS
Total Stored at OCWD*	13,940 (57%)	
Total Available Storage*	10,703 (43%)	

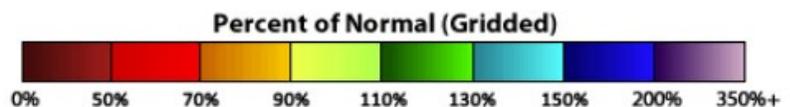
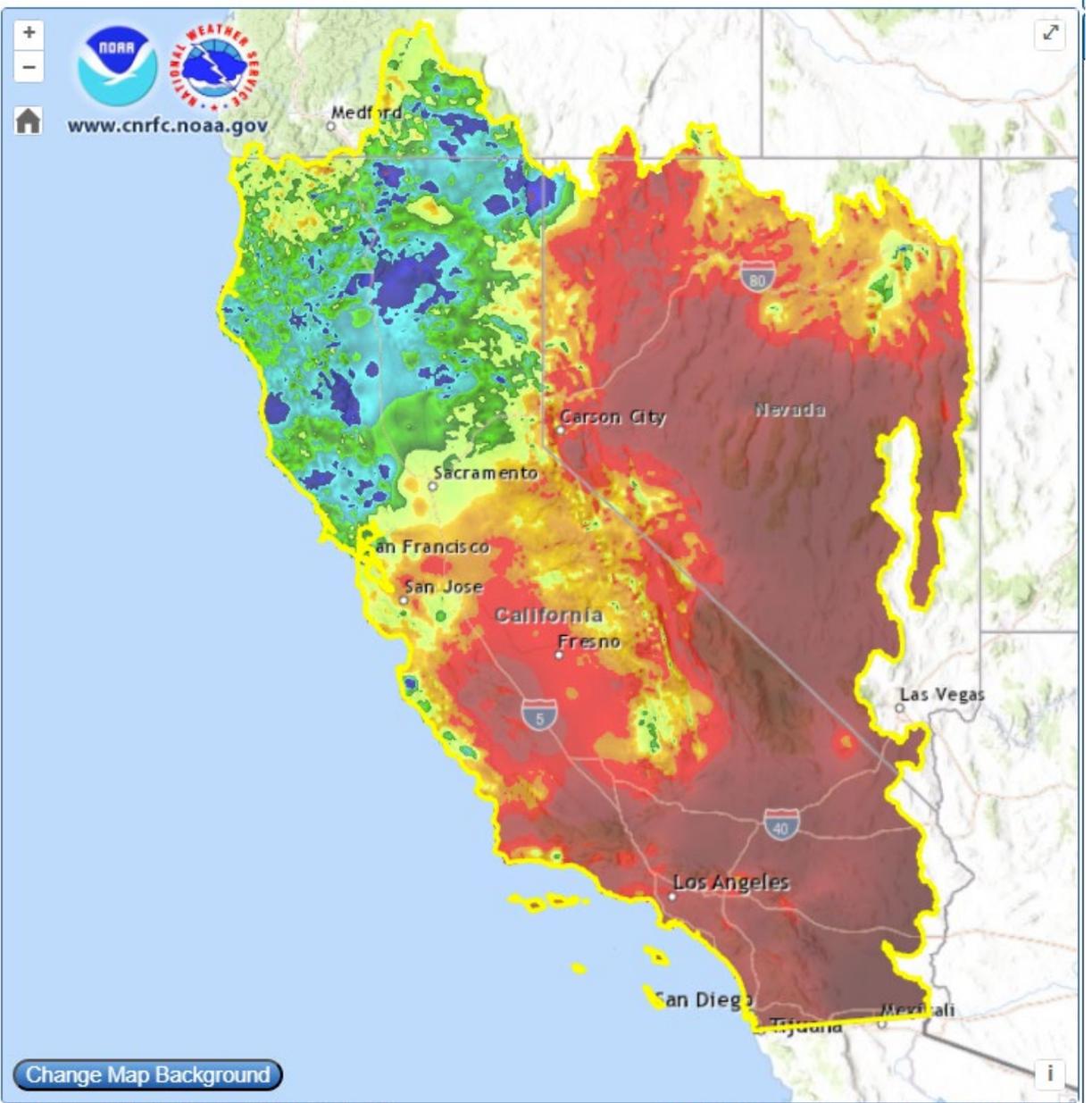
*Includes basins not listed

Data as of Midnight: 16-Feb-2025



Click for printable version of current data.

Report Generated: 17-Feb-2025 10:16 PM



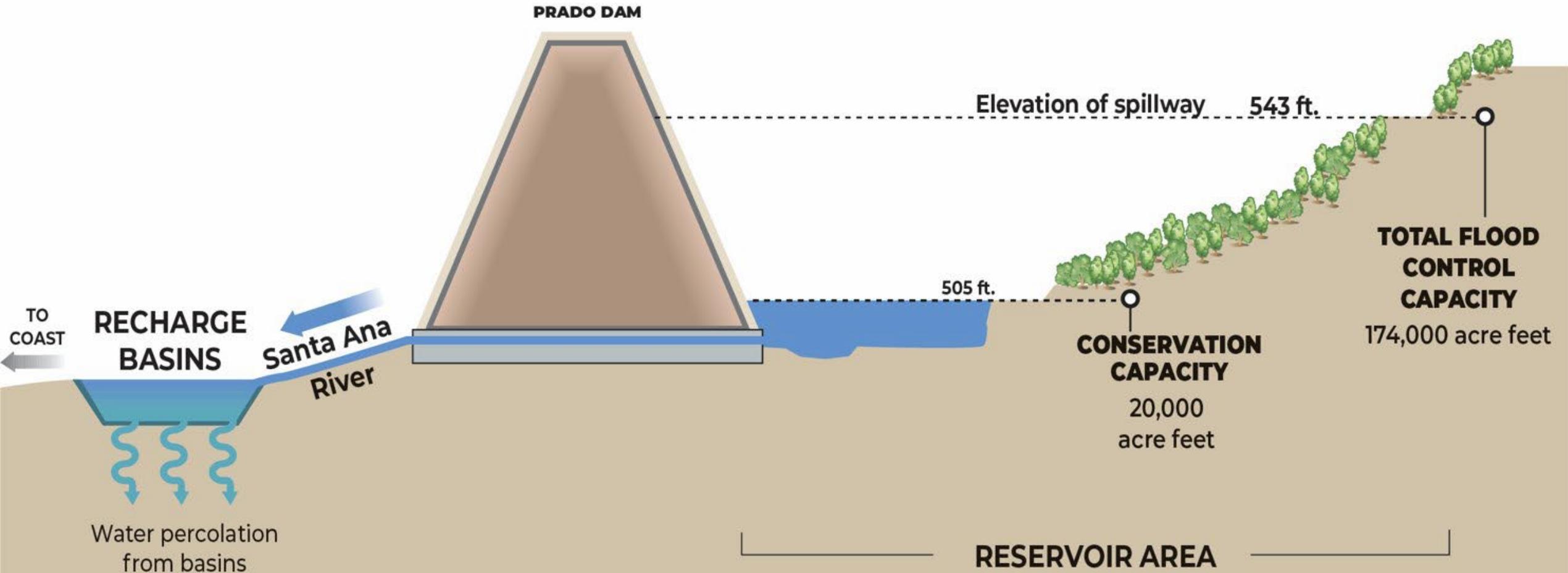
UNT

Groundwater Basin Accumulated Overdraft



Water Conservation at Prado Dam

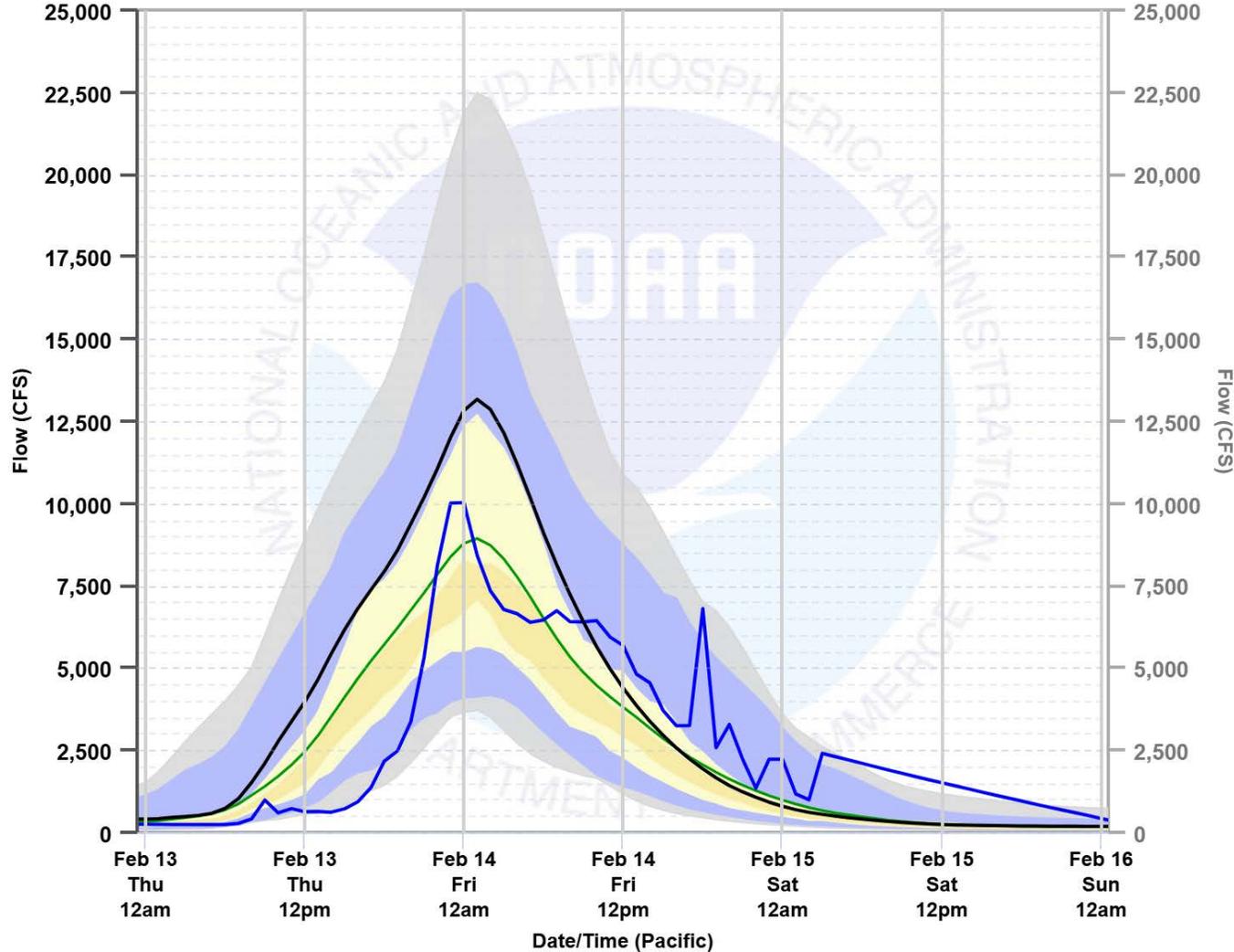
WATER CONSERVATION ELEVATIONS ABOVE SEA LEVEL



Prado Dam Inflow Forecast

Hourly Peak Flow Probabilities SANTA ANA RIVER - PRADO RESERVOIR (ADOC1)

Created: 2/12/2025 at 3:00 PM Pacific Time



Chance of Flow Exceedance (CFS)
Forecast Period: 02/13/2025 12 am - 02/16/2025 12 am

Max	22,489
5%	16,700
10%	16,450
25%	12,839
50%	7,824
75%	6,165
90%	4,855
95%	4,165
Min	3,739

- Observed
- Official Forecast (Deterministic)
- Ensemble Mean
- Model Traces
- Hourly Probabilities
 - 0-5% chance
 - 5-25% chance
 - 25-40% chance
 - 40-60% chance

✓ Accurate Prediction 69%

✗ Inaccurate Prediction 31%

Oceanic Niño Index (ONI) - 1990-present

https://origin.cpc.ncep.noaa.gov/products/analysis_monitoring/ensostuff/ONI_v5.php

