

Hilary, Sisar, & Artesia

Ojai Basin conditions, August 2023

OBGMA

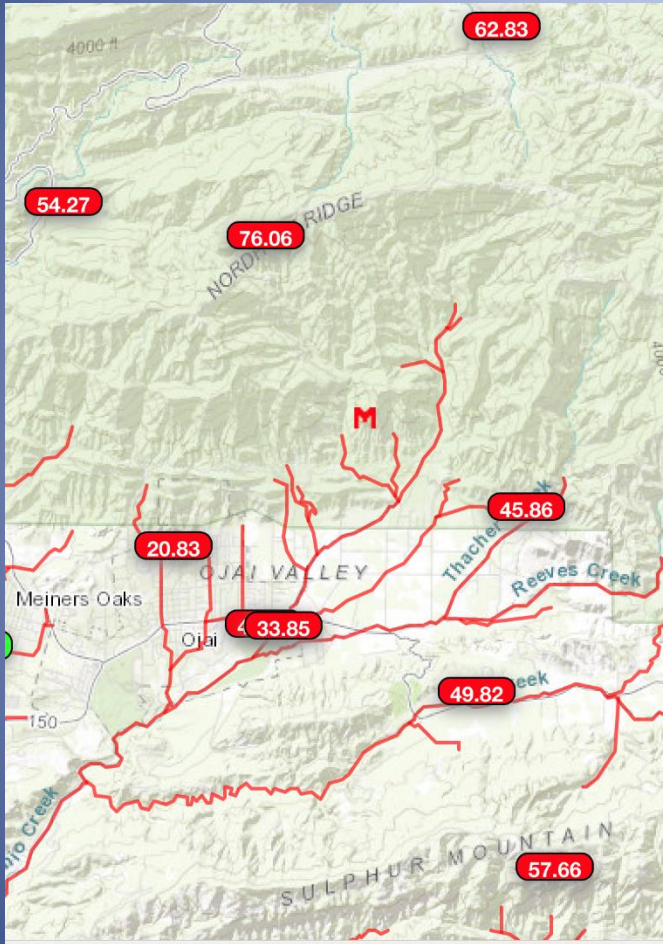
Ojai, California

Jordan Kear, PG, CHG

31 August 2023



Year to Date Rainfall Totals



H030 - Ojai (OJIC1) ×

Last Report: Aug 22 2023 07:00:00

15-min:	0.00	6-hour:	0.00	7-day:	2.13
30-min:	0.00	12-hour:	0.00	14-day:	2.61
1-hour:	0.00	24-hour:	0.00	28-day:	2.61
2-hour:	0.00	2-day:	2.13	season:	44.04
3-hour:	0.00	4-day:	2.13		

How much is this?

44.04 inches on valley
floor to date

76.06 inches on
ridgetop

Measurable rain every
month but April & July

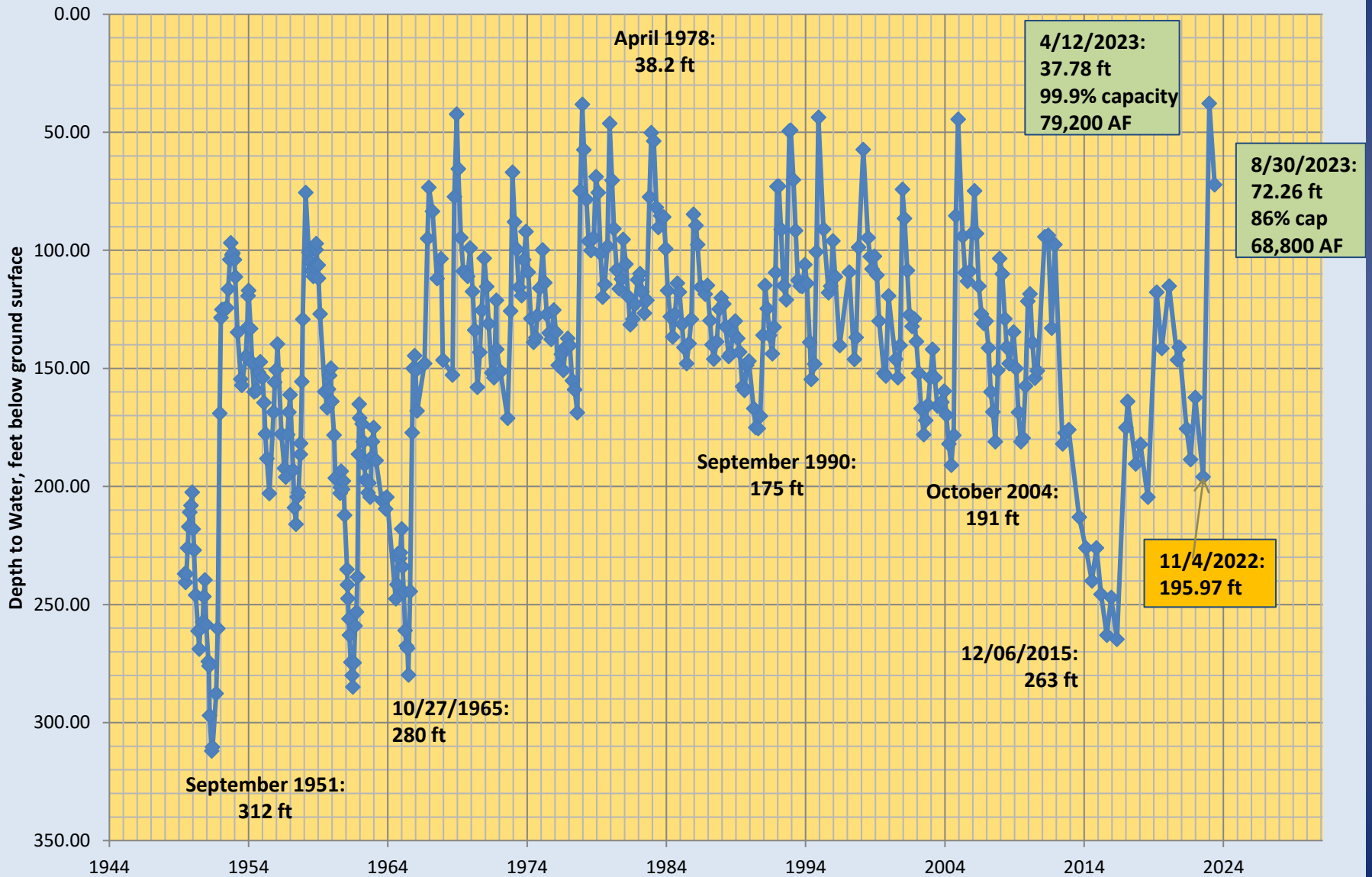
Hilary 2.13 inches

<u>Ojai #30</u>			
Period	1906-2020		P
Rank	Year	Rain	R
1	1997-98	49.20	
2	1977-78	48.60	
3	1968-69	46.61	
4	1940-41	45.24	
5	2004-05	43.84	
6	1982-83	43.06	
	Normal	21.32	

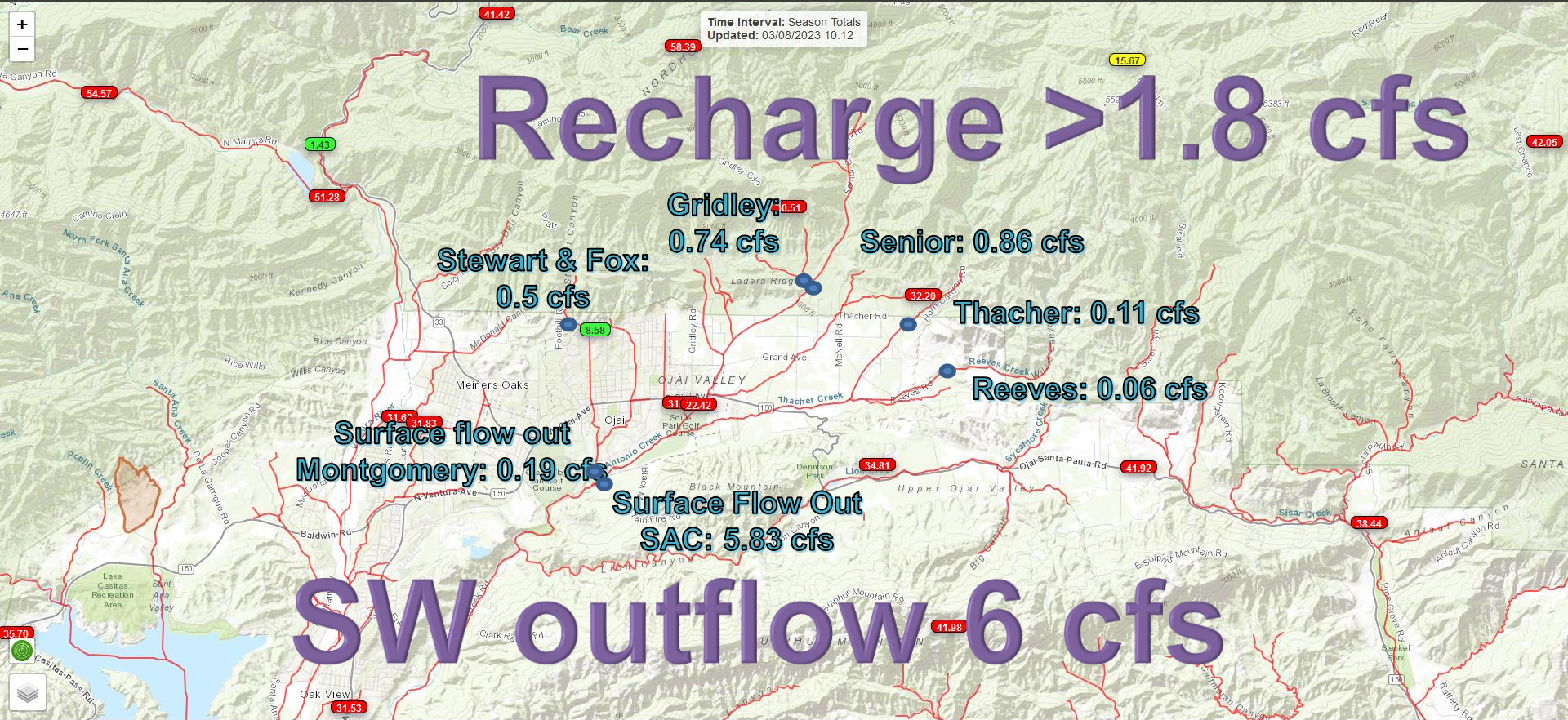
How has the basin responded?

- Tropical moisture limited pumping for a few days
- Flashy flow across creeks
- Blew out dry Algae! (increased infiltration)
- Some increase in shallow aquifers storage
- Some wells continue to flow artesian at end of August... barely

Depth to Water: Ojai Basin Key Well Area 04N/22W-5L8 & 5L5 (Carne and Grand)



Balance 30 August 2023

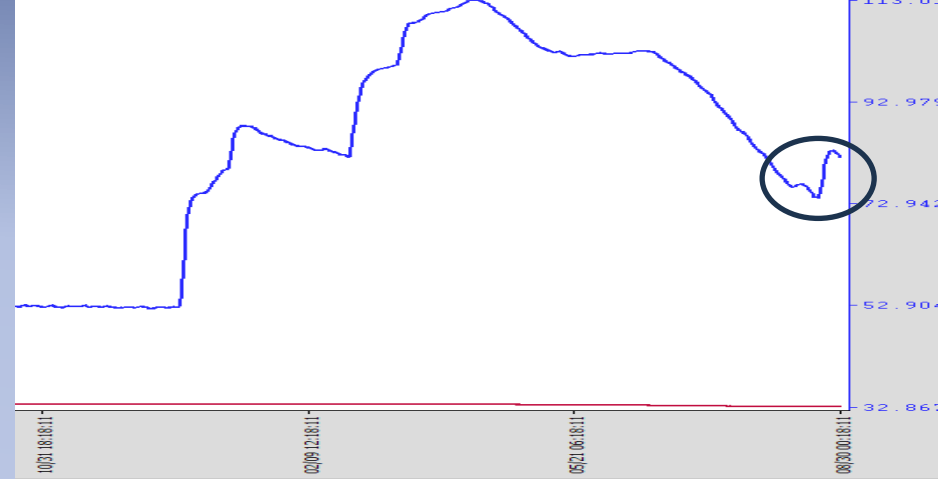


Artesian Wells, Nuisance Waters, and Perched System

Hilary "benefit"

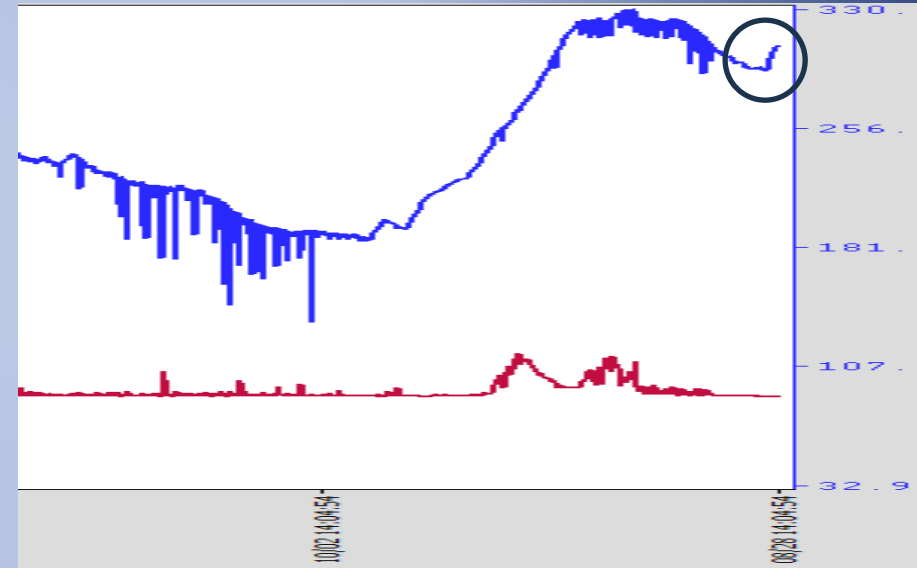
SACSGRP AREA

+10 ft



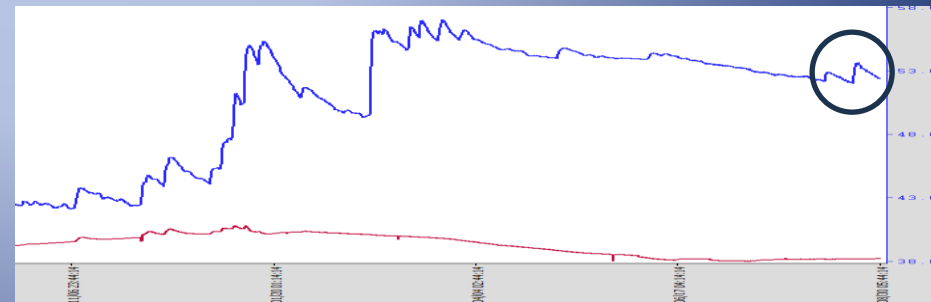
Main Aquifers

+up to 16 ft



SWUSZ

+2 ft





30 August 2023



30 August 2023



30 August 2023



30 August 2023



30 August 2023



30 August 2023



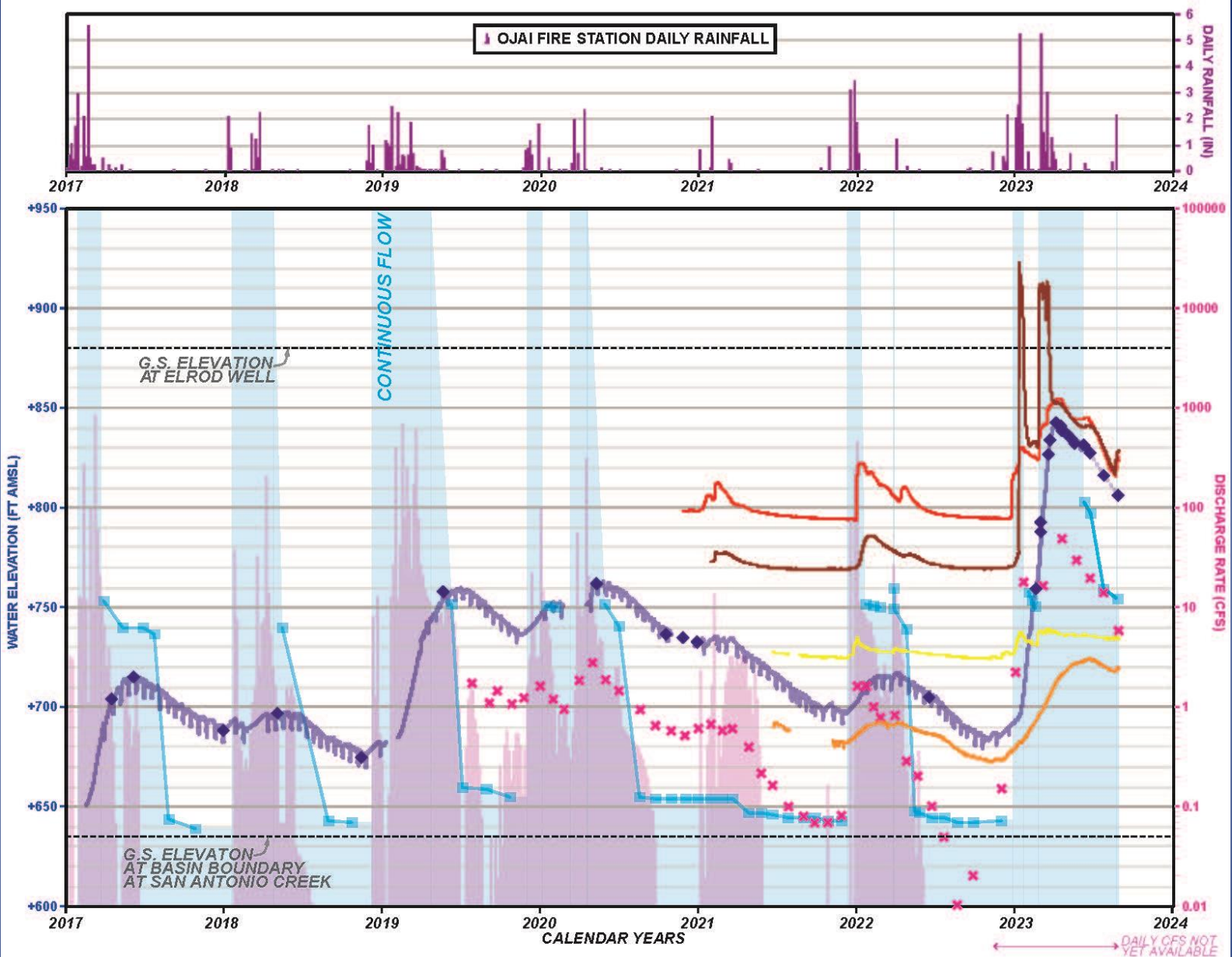
30 August 2023



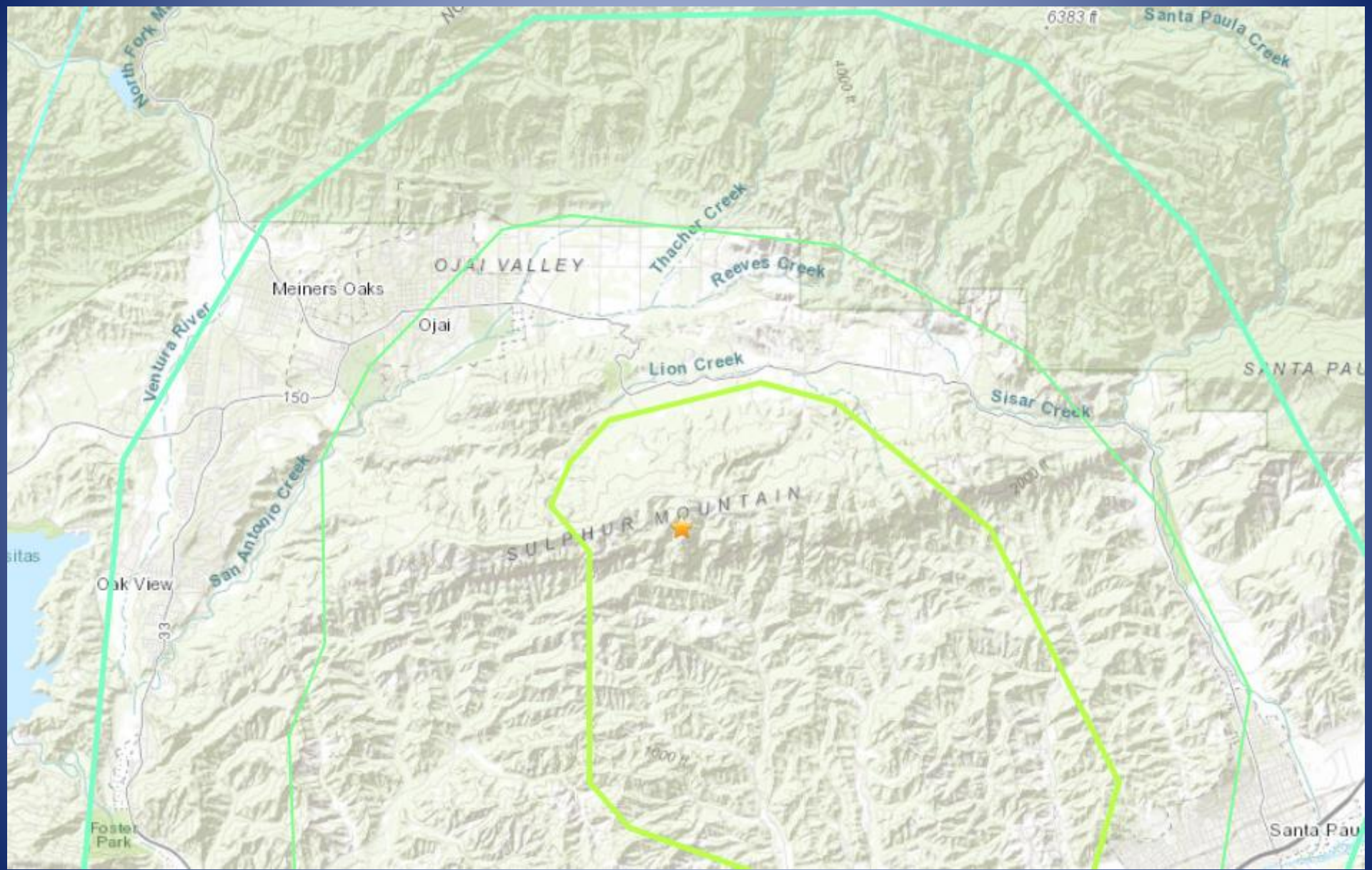
30 August 2023

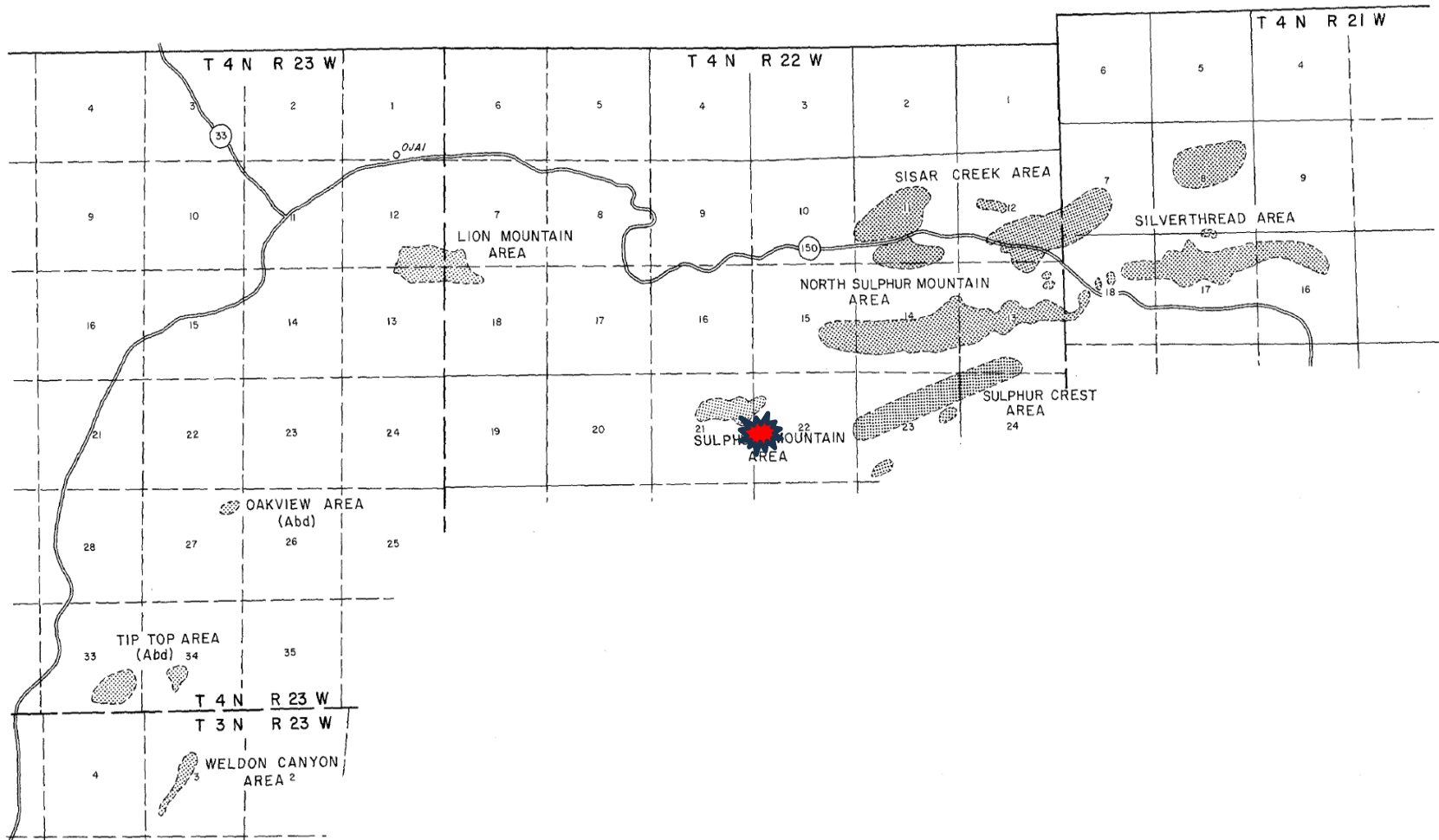


30 August 2023



- | | | |
|--|--|-----------------------------|
| — ELROD WELL LEVEL (LOGGER) | ◆ ELROD WELL LEVEL (SOUNDER) | SOUTH-CENTRAL DDMW (LOGGER) |
| — POINT OF DAYLIGHTING LOWER SAN ANTONIO CREEK FLOW | × | — PERCHED (14-24' perf.) |
| × | — S.A. CREEK AVG. DAILY DISCHARGE GAUGE (CFS) NEAR VENTURA RIVER | — MAIN (288-328' perf.) |
| — S.A. CREEK AVG. DAILY DISCHARGE GAUGE (CFS) NEAR VENTURA RIVER | — SOUTH-CENTRAL DDMW (LOGGER) | — SACSgrp DDMW (LOGGER) |
| | — 190-210' perf. | — 190-210' perf. |
| | — 255-295' perf. | — 255-295' perf. |





OJAI OIL FIELD
Index Map

5.1 Magnitude 8/20/23

On Sisar Fault

4.8 km deep

South-side up on fault

No reported surface rupture

Most upper block movement likely attenuated at depth-accommodated by ductile movement in the Rincon and Monterey formations

Limited if any affect on groundwater (thus far observed)

