

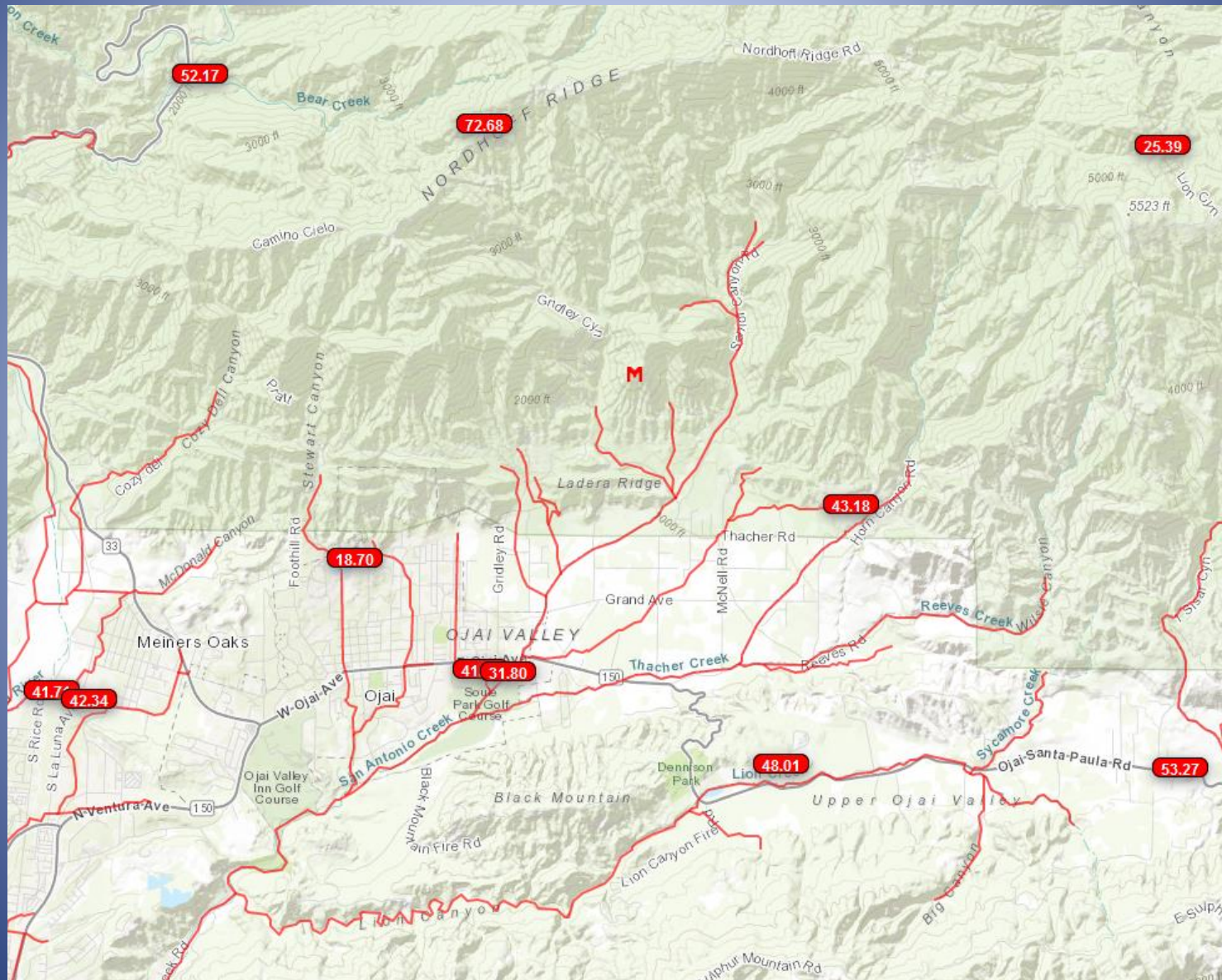
Dry as a bone,  
wet as a fountain  
Ojai Basin conditions, June 2023

OBGMA  
Ojai, California

Jordan Kear, PG, CHG  
29 June 2023



# Year to Date Rainfall Totals



How much is this?

41.43 inches on valley  
floor to date

72.74 inches on  
ridgetop

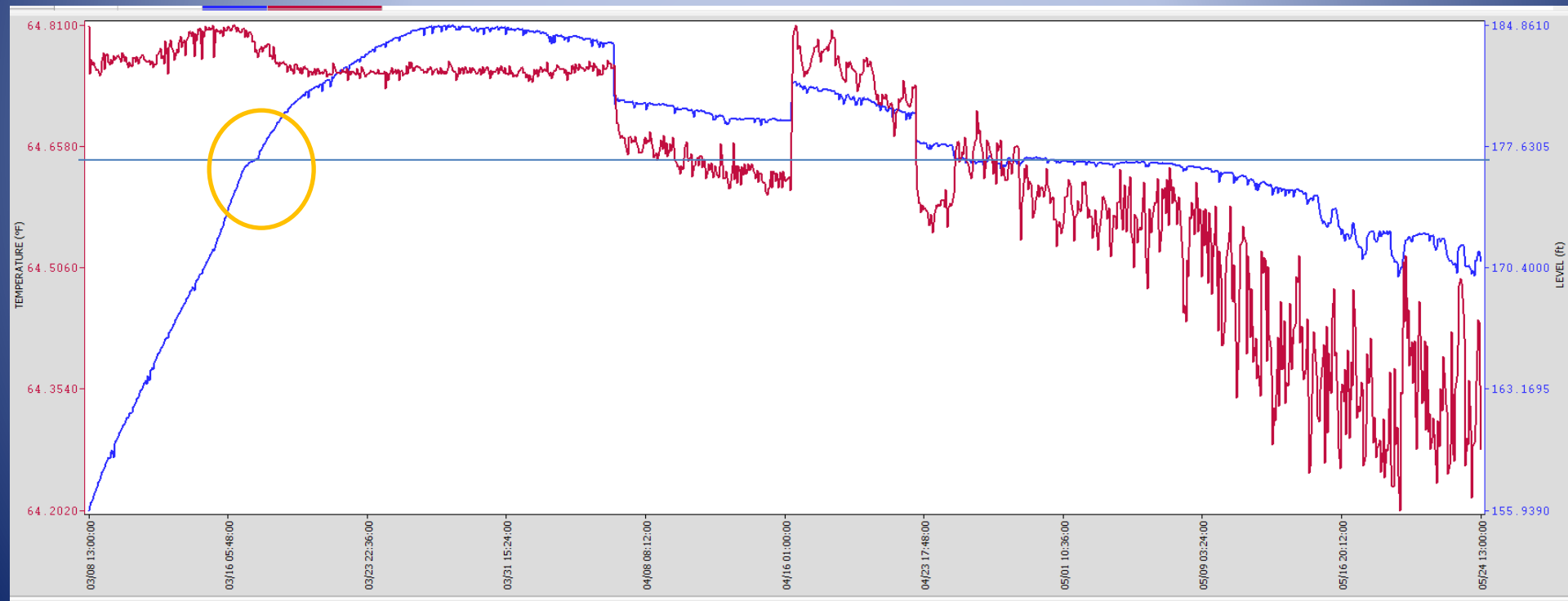
Measurable rain every  
month but April

<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	
<b>5</b>	<b>2004-05</b>	<b>43.84</b>	
6	1982-83	43.06	
	Normal	21.32	

# How has the basin responded?

- Surface water continuous flow from Late December through late January
- Continuous flow returned with February 24 storms
- Likely full with a peak on April 13 in places
- Historic High water levels?
- All streams break discontinuous by mid-June
- Some wells continue to flow artesian at end of June

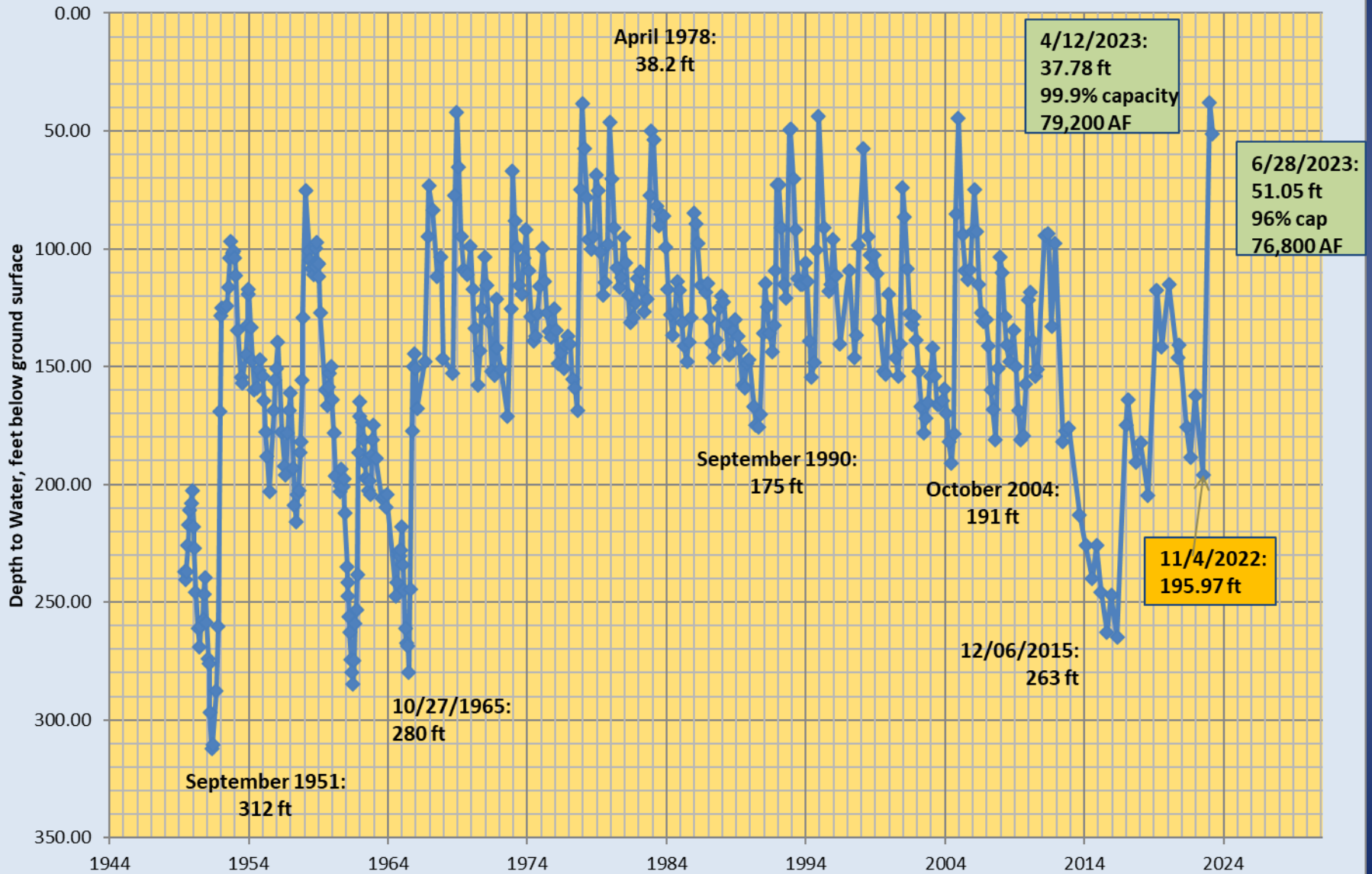
# Lagomarsino Artesian pressure



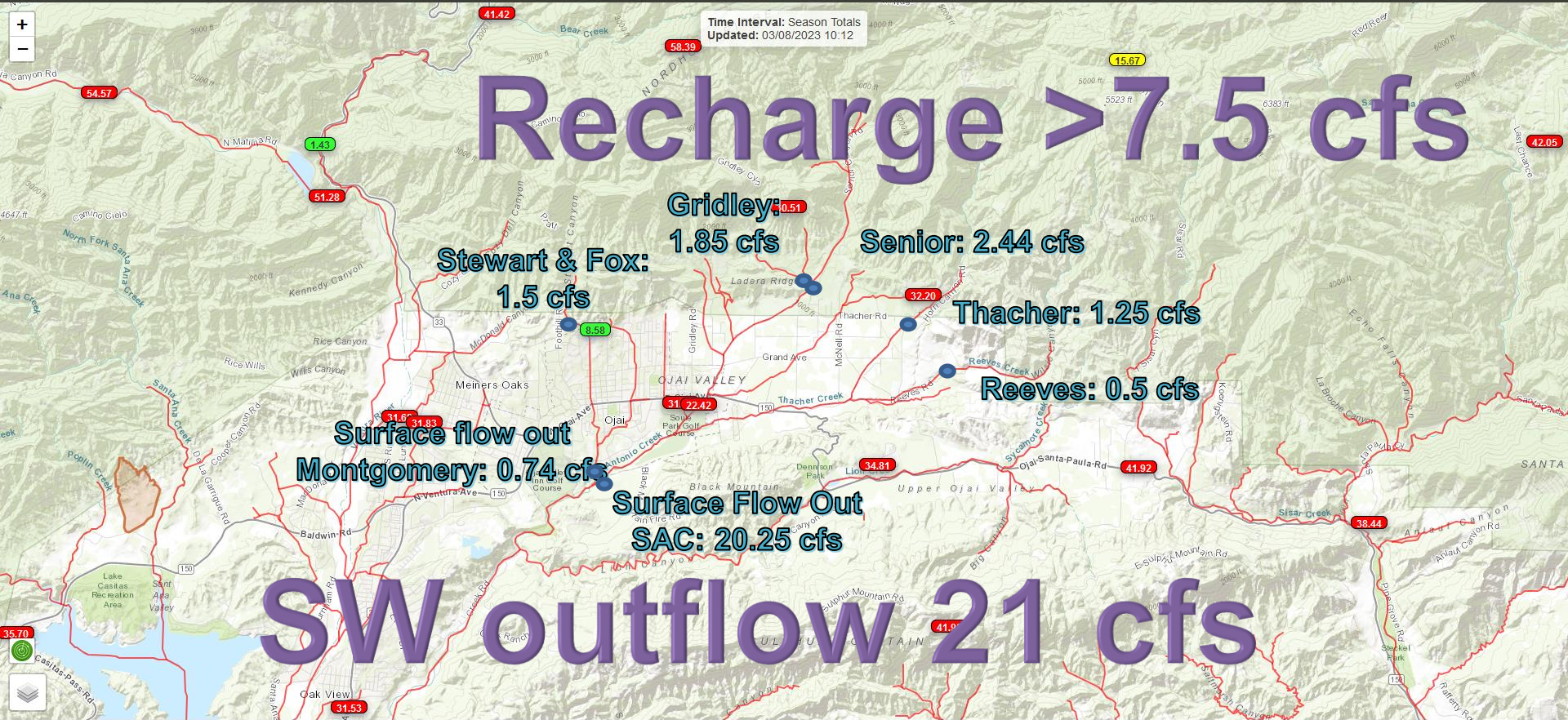
	Date	Time	LEVEL (ft)	TEMPERATURE (°F)
509	5/3/2023	08:30:00.0 PM	254.890	64.836
510	5/3/2023	10:00:00.0 PM	254.897	64.829
511	5/3/2023	11:30:00.0 PM	254.899	64.836
512	5/4/2023	01:00:00.0 AM	254.890	64.836
513	5/4/2023	02:30:00.0 AM	254.876	64.843
514	5/4/2023	04:00:00.0 AM	254.852	64.831
515	5/4/2023	05:30:00.0 AM	254.832	64.839
516	5/4/2023	07:00:00.0 AM	254.831	64.839
517	5/4/2023	08:30:00.0 AM	254.841	64.840



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



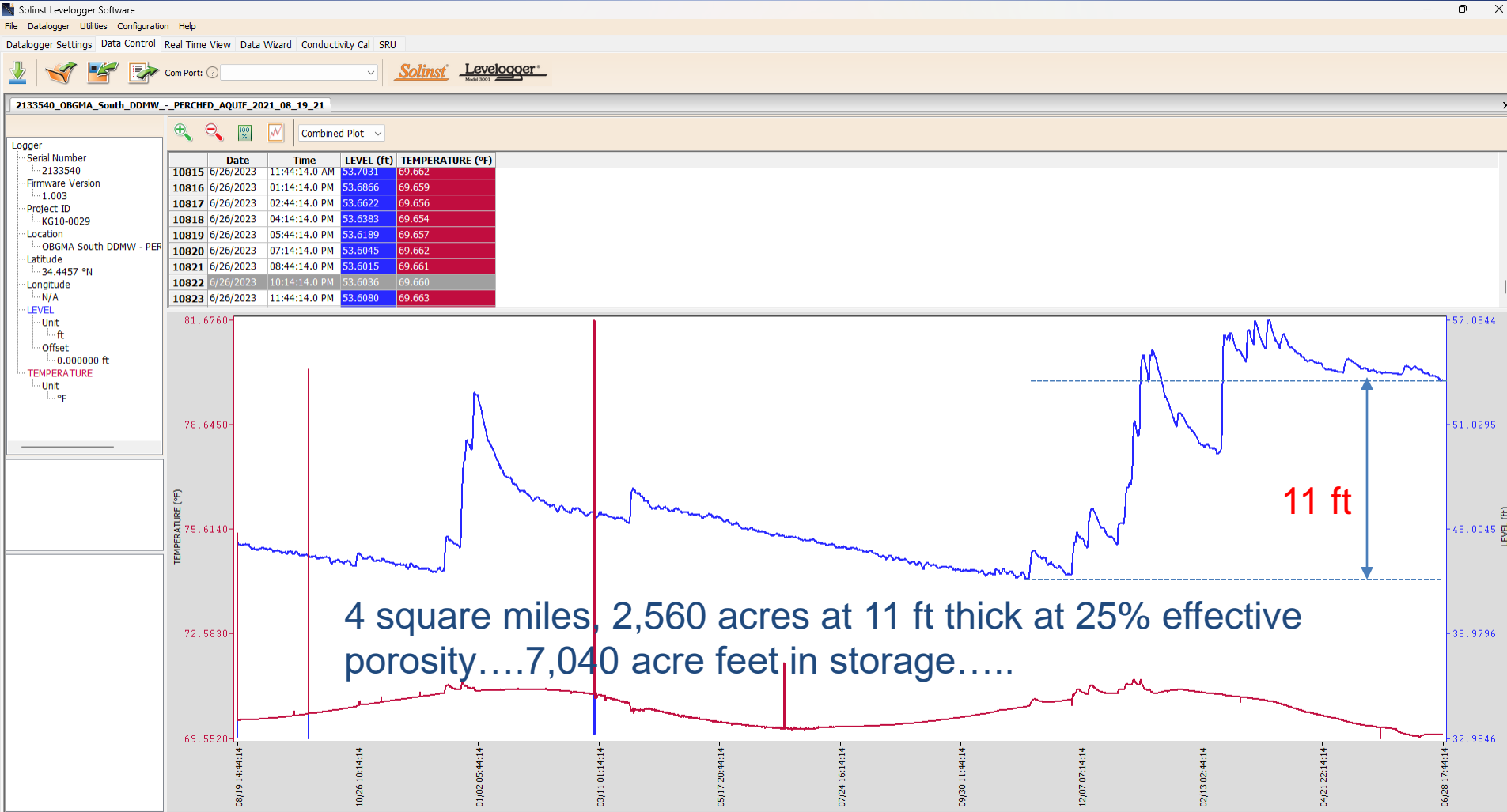
# Inflow 28 June 2023



Artesian Wells, Nuisance Waters, and Perched System



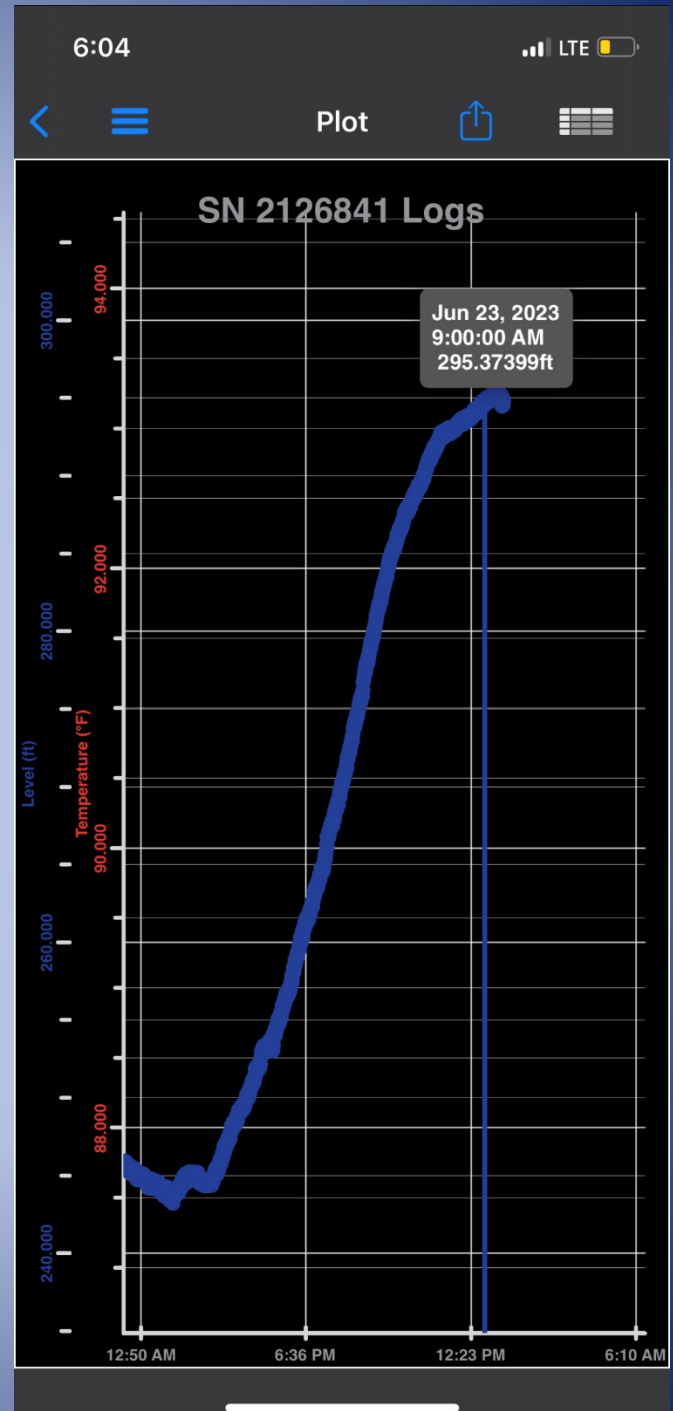
# Perched system South Fulton



20 cfs ... 40 acre-feet per day... 173 days at this rate .....

# Main Aquifer at Fulton Street

Peaked June 23  
2.5 months  
after central portion  
of basin



# Artesian well at Boardman



*KG, June 28, 2023*

# SAC Downstream from Ojai Ave



*KG, June 28, 2023*

# SAC Upstream from Ojai Ave



*KG, June 28, 2023*

# SAC (DRY) Downstream from Grand



*KG, June 28, 2023*

# Dry SAC upstream from Grand



*KG, June 28, 2023*

# SAC Entering Basin at confluence of Gridley (1.85 cfs) and Senior Canyon (2.44 cfs)



*KG, June 28, 2023*



# Thacher Creek at McAndrew



*KG, June 28, 2023*

1.26 cfs

# Reeves Creek Entering Basin



*KG, June 28, 2023*

0.43 cfs

# Dry Thacher/Reeves confluence



*KG, June 28, 2023*

# First flow at SAC just downstream from Grand Ave



*KG, June 28, 2023*

# South edge of SAC flow near Fordyce



*KG, June 28, 2023*

# Stewart under Creek Road (0.74 cfs)



*KG, June 28, 2023*

# SAC at exit (20.25 cfs)



*KG, June 28, 2023*

SAC at Old Creek Road (232 cfs  
observed per County website, 14  
cfs predicted, actual ~24 cfs)



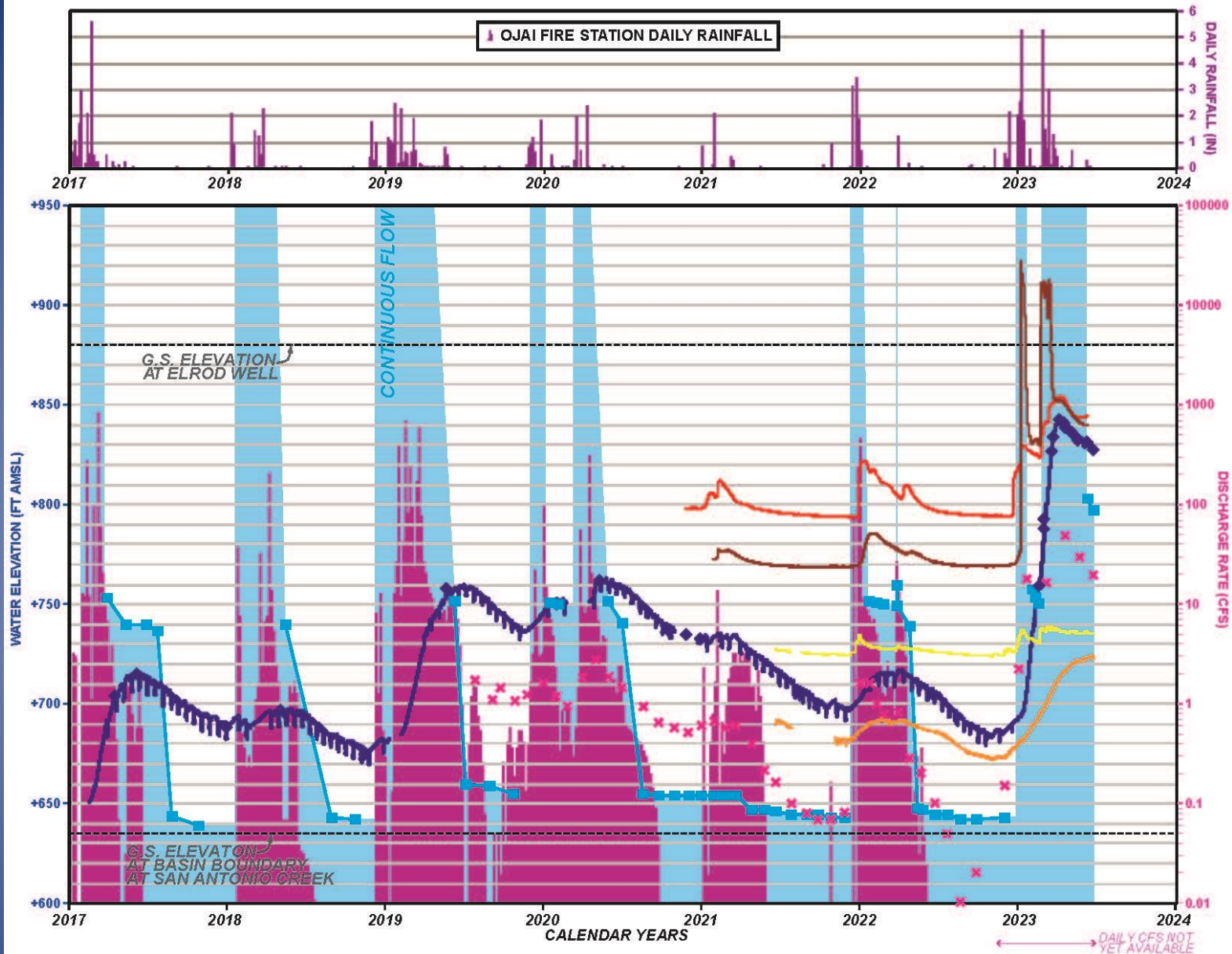
*KG, June 28, 2023*



# SAC and Ventura River confluence



*KG, June 28, 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 INSTANT. DISCHARGE (CFS) AT OJAI BASIN OUTFLOW      | — MAIN (288-328' perf.)     |
| █   | S.A. CREEK AVG. DAILY DISCHARGE GAUGE (CFS) NEAR VENTURA RIVER | SACSGRP DDMW (LOGGER)       |
|   |  | — 190-210' perf.            |
|   |  | — 255-295' perf.            |

# Forward

- Better estimates of perched system aquifer
  - Storativity and transmissivity
  - Extent and gradient
    - *policy of forbearance*
- Water quality in wells and creeks
- Replace logger in SAC near discharge