July 2023

SUMMARY

This report summarizes June 2023 groundwater storage, recharge, pumping, and level conditions for the Santa Clara Subbasin (the Santa Clara Plain and Coyote Valley groundwater management areas) and the Llagas Subbasin.

Groundwater levels in most regional monitoring wells are lower than last month as typical seasonal declines continue. All water levels are higher relative to June 2022 and most are higher relative to the prior five-year average for June. The end of 2023 groundwater storage is projected to be in Stage 1 (Normal) of the Water Shortage Contingency Plan.

- June managed recharge is 87% to 181% of the five-year average.
- May pumping is 57% to 119% of the five-year average.
- Groundwater levels in index wells for June 2023 range from 19 feet to 34 feet higher than the June levels of 2022.

Table 1. Summary of Current Groundwater Conditions

	Santa Clara	Lleves	
	Santa Clara Plain	Coyote Valley	Llagas Subbasin
June 2023 managed recharge estimate	9,000	1,500	1,500
YTD managed recharge estimate	41,600	6,600	7,900
YTD managed recharge as % of five-year average	181%	96%	87%
May 2023 pumping estimate	4,100	1,300	3,300
YTD pumping estimate	14,300	4,900	10,200
YTD pumping as % of five-year average	57%	119%	93%
Current index well groundwater levels compared to June of 2022	31 feet higher	19 feet higher	34 feet higher

All volumes are in acre-feet. All data is for 2023 except where noted. YTD = Year-to-date



Groundwater Recharge

- Figures 1, 2, and 3 show the cumulative managed recharge for 2023 compared to the average of the previous five years (2018 2022).
- Compared to the average of the previous five years, managed recharge for June 2023 was higher in the Santa Clara Plain and lower in Coyote Valley and the Llagas Subbasin.
- Managed recharge depends on many factors, including water demand and availability, regulatory needs, groundwater storage, and facility maintenance.

Figure 1. Estimated Cumulative Managed Recharge in the Santa Clara Plain

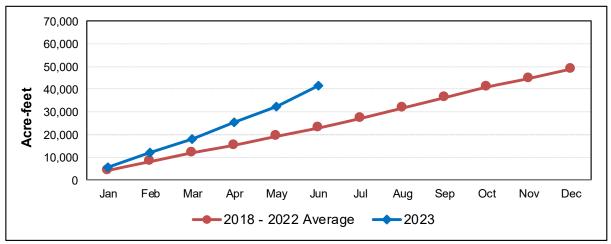


Figure 2. Estimated Cumulative Managed Recharge in the Coyote Valley

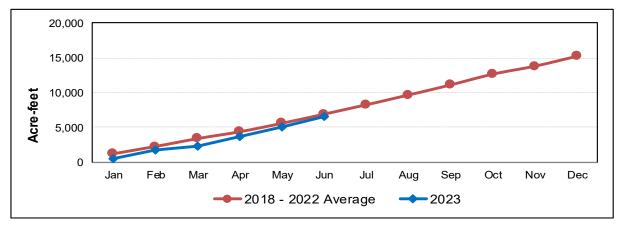
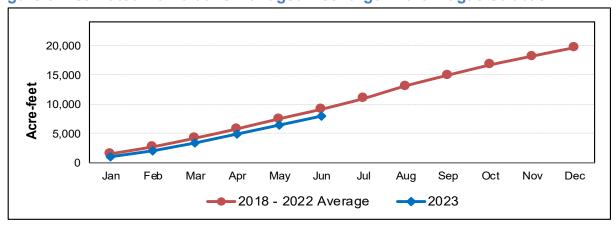


Figure 3. Estimated Cumulative Managed Recharge in the Llagas Subbasin



Groundwater Pumping

- Figures 4, 5, and 6 show the cumulative groundwater pumping for 2023 compared to the average of the previous five years (2018 2022).
- Pumping estimates for May 2023 include monthly pumping data reported by water retailers and non-monthly pumping, primarily from domestic and agricultural uses.
- Compared to the average of the previous five years, pumping for May 2023 was higher in Coyote Valley and lower in the Santa Clara Plain and Llagas Subbasin.

Figure 4. Estimated Cumulative Santa Clara Plain Pumping

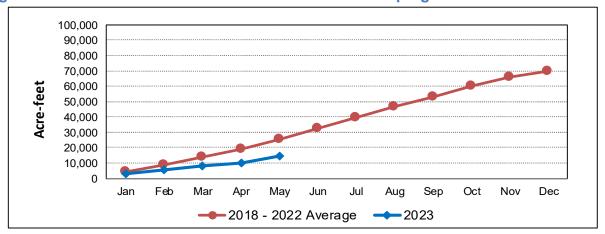


Figure 5. Estimated Cumulative Coyote Valley Pumping

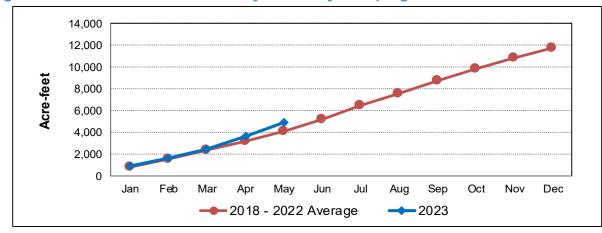
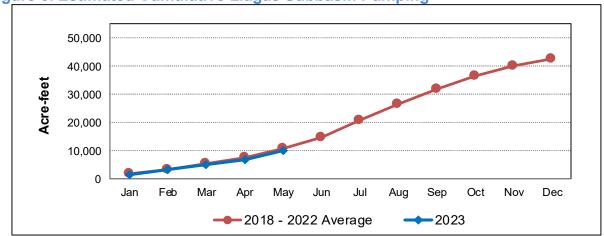


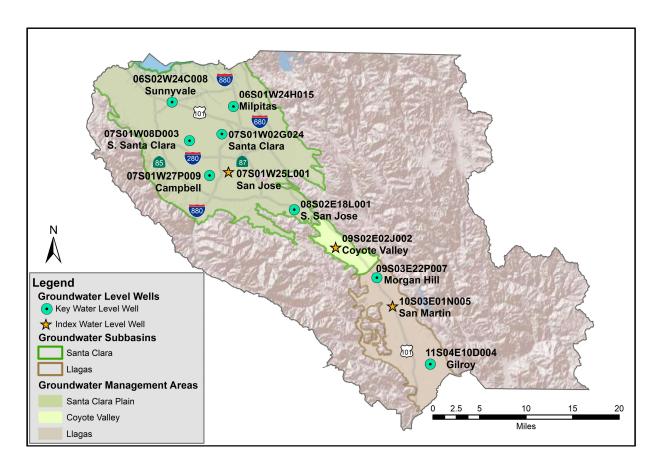
Figure 6. Estimated Cumulative Llagas Subbasin Pumping



Groundwater Levels

Groundwater levels in most regional monitoring wells¹ have decreased since last month and all are higher than this time last year. Most wells are higher than the June average for the previous five years. Table 2 summarizes current groundwater levels with historical comparisons for 11 regional monitoring wells that are distributed across the three management areas, as shown in Figure 7.

Figure 7. Locations of Regional Water Level Monitoring Wells



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https://gis.valleywater.org/GroundwaterElevations.

¹ **Note:** While this report summarizes water levels from the 11 combined key and index wells of the regional network (Figure 7), Valley Water monitors groundwater levels from over 230 wells each month and these levels are publicly available at

Table 2. Comparisons to June 2023 Depth to Water (DTW) in Regional Wells

			Difference in June 2023 DTW (feet) Compared to:				
Location	State Well ID	June 2023 DTW (feet)	May 2023	June 2022	Prior 5-year Average for June	Maximum DTW during 2012–2016 drought	
Milpitas	06S01W24H015	-30 (artesian)	-5	20	6	51	
Sunnyvale	06S02W24C008	-34 (artesian)	1	8	-4	13	
San Jose	07S01W25L001	68	-3	31	21	70	
Santa Clara	07S01W02G024	-2 (artesian)	-1	34	22	93	
S. Santa Clara	07S01W08D003	61	-2	29	8	85	
Campbell	07S01W27P009	98	-5	41	29	100	
S. San Jose	08S02E18L001	21	0	15	0	49	
Coyote Valley	09S02E02J002	7	-2	19	10	30	
Morgan Hill	09S03E22P007	53	-9	15	-3	43	
San Martin	10S03E01N005	25	-2	34	10	56	
Gilroy	11S04E10D004	24	-7	23	7	39	

Notes: Depth to water is measured to the hundredth of a foot but data shown here are rounded to the nearest foot. Negative values in the last 4 columns indicate current groundwater levels are lower than the comparison time. Well 09S03E22P005 was replaced with well 09S03E22P007; water level data from well 09S03E22P005 were used for historical comparison calculations. (artesian) indicates aquifer pressure conditions that push water level elevations higher than land surface. The maximum DTW during the 2012–2016 drought occurred between July 2014 and December 2015, depending on the well.

Figures 8 through 18 show ten-year hydrographs for each of the eleven regional monitoring wells.

Figure 8. Milpitas Well Hydrograph

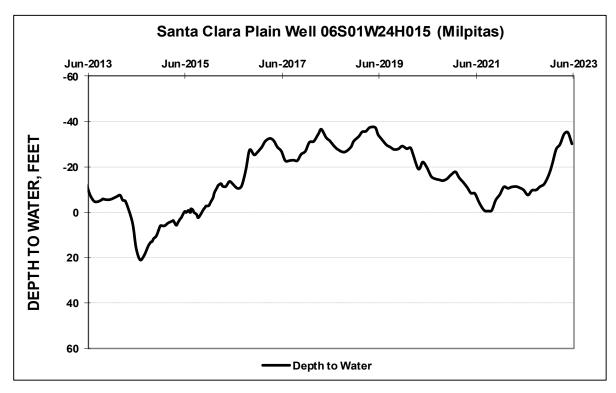


Figure 9. Sunnyvale Well Hydrograph

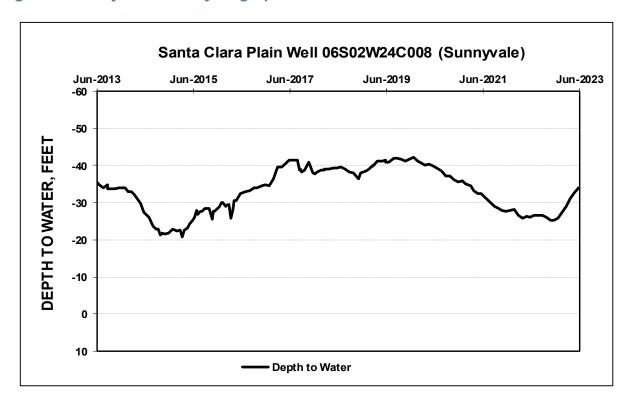
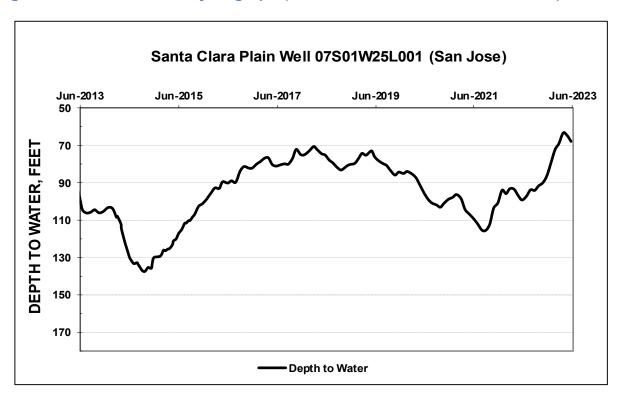


Figure 10. San Jose Well Hydrograph (Index Well for the Santa Clara Plain)



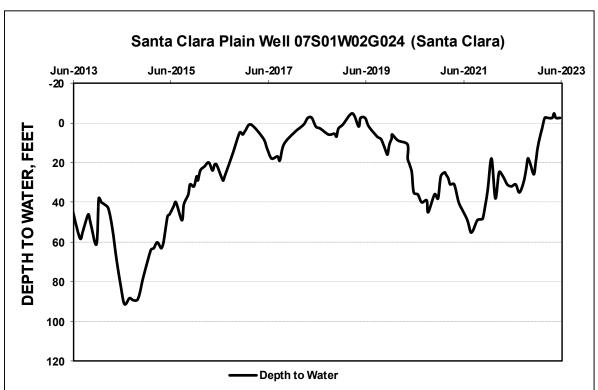
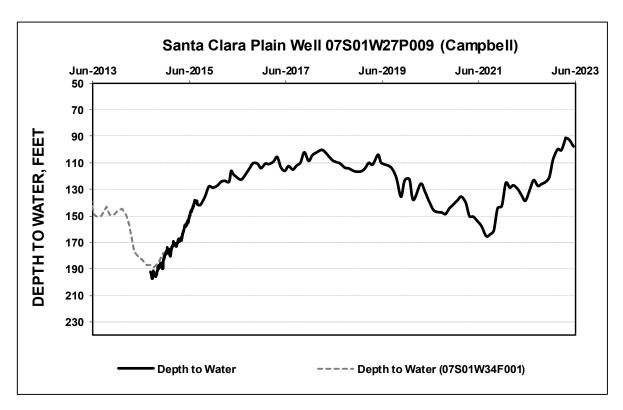


Figure 11. Santa Clara Well Hydrograph

Figure 12. South Santa Clara Well Hydrograph



Figure 13. Campbell Well Hydrograph



The Campbell index well was replaced in August 2015 with a nearby well with similar water levels. Data in the chart prior to September 2014 is from the former index well (07S01W34F001).

Figure 14. South San Jose Well Hydrograph

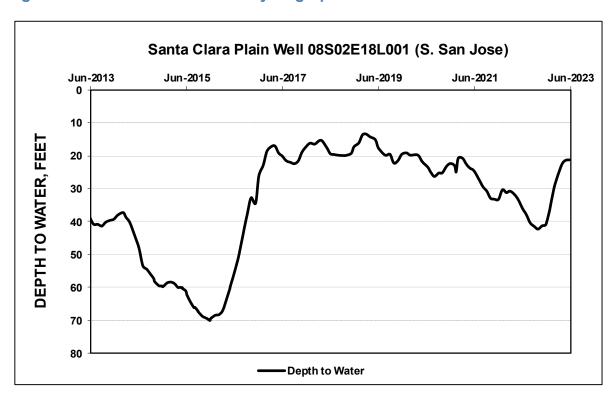


Figure 15. Coyote Valley Well Hydrograph (Index Well for the Coyote Valley)

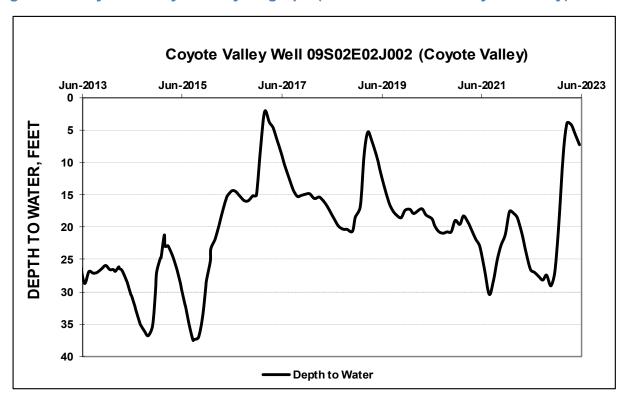
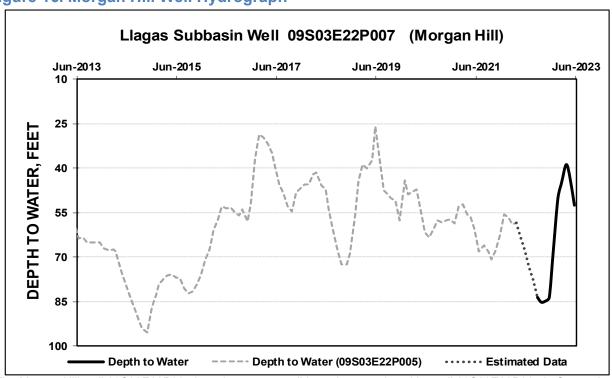


Figure 16. Morgan Hill Well Hydrograph



The Morgan Hill well 09S03E22P005 is no longer accessible and was replaced by well 09S03E22P007 in September 2022. Water levels from May 2022 to September 2022, represented by the dotted line, are estimated.

Figure 17. San Martin Well Hydrograph (Index Well for the Llagas Subbasin)

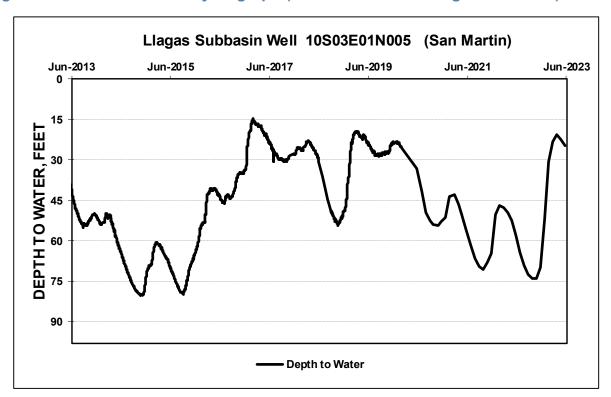


Figure 18. Gilroy Well Hydrograph

