

A monthly assessment of trends in water supply and use for Santa Clara County, California

Outlook as of November 1, 2022

Based on continued drought conditions across California, imported water allocations remain low. The State Water Project allocation is at 5% of contract amount and the Central Valley Project allocation is zero. Both the State Water Project and U.S. Bureau of Reclamation have allocated Valley Water with emergency public health and safety water supplies. Santa Clara County continues to be in a water shortage emergency. Due to severe drought and increased reliance on imported water in the next 10 years while Anderson Reservoir storage is unavailable, meeting the Board of Directors call for 15% water use reduction relative to 2019 is essential. Valley Water Board of Directors approved an ordinance to enforce water waste restrictions on May 24, 2022, and passed an amendment on September 13, 2022, banning irrigation of commercial, industrial, and institutional non-functional turf.

Weather

- Rainfall in San José:
 - » Month of October, City of San José = 0 inches
- Rainfall year total = 0.51 inches or 52% of average to date (rainfall year is July 1 to June 30)
- San José average daily high temperature was 74.9 degrees Fahrenheit in October, which is lower than the five-year average for October (78.1 degrees Fahrenheit)

Local Reservoirs

- Total November 1 storage = 25,926 acre-feet

Reservoir Storage	All Ten Valley Water Reservoirs	All Reservoirs Except Anderson
Current storage as % of unrestricted capacity	16%	29%
Current storage as % of restricted capacity (1)	41%	38%
Current storage as % of the 20-year average for November 1	39%	85%

(1) Per the Federal Energy Regulatory Commission's order, the capacity of Anderson Reservoir was restricted to the deadpool storage of about 3,050 acre-feet. The total restricted capacity for all ten reservoirs is 62,592 acre-feet.

- No imported water delivered into Calero Reservoir during October 2022
- Total estimated releases to streams (local and imported water) during October were 3,780 acre-feet (based on preliminary hydrologic data)

Treated Water

- Below average demands of 8,060 acre-feet (estimated) delivered in October
- This total is 81% of the five-year average for the month of October
- Year-to-date estimated deliveries are 79,440 acre-feet or 89% of the five-year average

Groundwater

- Groundwater levels have stabilized in much of the county and continue to increase in some areas due to Valley Water's managed recharge operations and ongoing water conservation by the community. Groundwater levels in many monitoring wells are currently higher than last month and October 2021. The end of 2022 groundwater storage is projected to be in low Stage 1 (Normal) of the Water Shortage Contingency Plan

	Santa Clara Subbasin		Llagas Subbasin
	Santa Clara Plain	Coyote Valley	
October 2022 managed recharge estimate	8,100	900	1,700
YTD managed recharge estimate	49,200	9,900	16,500
YTD managed recharge as % of 5-year average	117%	74%	103%
September 2022 pumping estimate	6,700	1,200	4,600
YTD pumping estimate	52,900	9,000	29,300
YTD pumping as % of 5-year average	100%	104%	91%
Current index well groundwater levels compared to October 2021	20 Feet Higher	2 Feet Lower	3 Feet Lower

All volumes are in acre-feet. All data is for 2022 except where noted. YTD = Year-to-Date

Imported Water

- In October, the State Water Project operated Banks pumping plant with an average daily export of 796 acre-feet, resulting in a total export of 22,282 acre-feet from the delta
- In October, the Central Valley Project operated Jones pumping plant with an average daily export of 2,059 acre-feet, resulting in a total export of 59,713 acre-feet from the delta
- There were no interruptions to delta pumping operations, due to water quality or otherwise, during the month of October

WY 2022 Imported Water Allocations	Allocation	Allocation (acre-feet)	Additional Allocation
State Water Project	5%	5,000	Additional allocation of human health and safety water secured
Central Valley Project	-	-	Public health and safety water only
State-wide Reservoir Storage	Capacity	Current Storage (acre-feet)	Average for Date (as of 10/28/22)
Shasta Reservoir	31%	1,425,192	58%
Oroville Reservoir	32%	1,122,599	62%
San Luis Reservoir	25%	508,195	56%
Semitropic Groundwater Bank	Capacity	Current Storage (acre-feet)	Date of Data
	79%	274,830	9/30/22
Estimated SFPUC Deliveries	September (acre-feet)	2022 Total to Date (acre-feet)	Five-year annual average (acre-feet)
	4,304	35,187	48,700

Conserved Water

- Saved 76,584 acre-feet in FY21 through Valley Water's long-term conservation program (baseline year is 1992)
- Long-term program goal is to save nearly 100,000 acre-feet by 2030 and 110,000 acre-feet by 2040
- On June 9, 2021, the Board called for a 15% reduction in water use compared to 2019 and for retailers, cities, and the County to implement local water restrictions. On May 24, 2022, the Board approved an ordinance to enforce outdoor water waste restrictions against runoff, midday watering, and watering after rainfall, and a limit of two days a week of watering for non-functional turf. On September 13, 2022, this ordinance was amended to include the State's ban against watering commercial, industrial, and institutional non-functional turf amongst its list of enforceable restrictions
- The water savings achieved are shown in the table below

Baseline Year	Santa Clara County	
	2019	2020
September 2022 Savings	13%	14%
Cumulative*	6%	11%

*Cumulative for 2019 baseline begins in June 2021 and for 2020 baseline begins in July 2021

Recycled Water

- Estimated October 2022 production = 1,305 acre-feet
- Estimated year-to-date through October = 15,409 acre-feet or 102% of the five-year average
- Silicon Valley Advanced Water Purification Center produced an estimated 1.7 billion gallons (5,150 acre-feet) of purified water in 2021. Since the beginning of 2022, about 4,332 acre-feet of purified water has been produced. The purified water is blended with existing tertiary treated recycled water for South Bay Water Recycling Program customers

Alternative Sources

- As of December 10, 2019, Valley Water's wastewater contract right from Palo Alto/ Mountain View remains at 11,200 acre-feet/year

CONTACT US

To find out the latest information on Valley Water projects or to submit questions or comments, email info@valleywater.org or use our **Access Valley Water** customer request system at <https://deliver.com/2yukx>.



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*Supplemental Attachment 3

Page 2 of 2