

City of Sunnyvale

Public Works Department

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Service Area

The City of Sunnyvale is an urban industrial and residential community located at the south end of the Peninsula in Santa Clara County, with a service area for the water utility contiguous with its city limits. California Water Service also serves several small areas within the City.

System

Profile

Area Size	24 square miles
Service Population	138,826
Number of Accounts	25,476
Number of SFPUC Connections	6
Connections To SFPUC Mains	BDPL 3 and 4
Avg. Day Demand (mgd)	19.17
Avg. Day Purchases From SFPUC (mgd)	9.78
% Demand Met With SFPUC Supplies	51%
Maximum Local Water Production (mgd)	1.13
Alternative Supply Sources	Local Groundwater
Interties With Other Agencies	CWS, SCVWD, Mountain View, Cupertino
Local Storage (mg)	27.5
Days of Storage	More Than 1 Day - Length of storage based on loss of all sources of supply. With loss of SFPUC supply only, City can utilize wells, SCVWD or excess capacity from other zones to meet 8 hour outage.

Summary

Sunnyvale's water utility receives water supplied from SFPUC via 6 turnouts off BDPL 3 and 4 in the northern section of the City. The SCVWD connections are located in the far southwest corner of the City. Water from SCVWD is primarily served from the District's Rinconada WTP. A few formerly unincorporated County of Santa Clara pockets are currently served by CWS, backed up by interties with the City.

Groundwater is provided by 7 active wells, with 1 well on stand-by status. Water from these wells meets all current drinking water standards without treatment. The wells are used to meet peaking requirements and to supply water for fire and other emergencies. Due to the overall cost of producing well water, including pump tax, power, operation and maintenance expenses, and amortization, it is cost-effective for the City to maximize use of water from SFPUC and SCVWD.

The City has 10 ground storage tanks, with a minimum of 1 storage tank in every zone, and additional tanks located at water plants in the City.

The potable distribution system is completely interconnected and includes 3 pressure zones, 21 booster pumps, 3,310 fire hydrants, more than 10,000 manual and automatic valves, and 280 miles of mains. Recycled non-potable water is used for irrigation services.

Water Supply and Demand

Supply by Source	Actual FY 06-07 (ccf)	Actual FY 07-08 (ccf)	Actual FY 08-09 (ccf)	Actual FY 09-10 (ccf)
San Francisco Water	4,505,138	5,072,437	5,181,026	4,771,741
Santa Clara Valley WD	4,652,075	4,218,424	4,064,148	767,648
Local Groundwater	824,644	846,202	408,157	578,995
Surface Water	0	0	0	0
Recycled Water	905,153	558,055	715,691	3,236,552
Other	0	0	0	0
Total	10,887,010	10,695,118	10,369,022	9,354,936
mgd equivalent	22.31	21.92	21.25	19.17

Demand by Sector

Residential	6,357,351	6,271,627	5,986,805	5,597,723
Commercial/Industrial	2,026,241	2,341,108	2,944,751	1,704,022
Other	1,790,232	1,866,583	535,768	508,202
Dedicated Irrigation	0	0	0	1,241,257
Unaccounted for	713,186	215,800	901,698	303,732
Total	10,887,010	10,695,118	10,369,022	9,354,936
mgd equivalent	22.31	21.92	21.25	19.17

Per Capita Use	Actual FY 06-07 (gpcpd)	Actual FY 07-08 (gpcpd)	Actual FY 08-09 (gpcpd)	Actual FY 09-10 (gpcpd)
Residential	97	96	89	83
Gross (Less Recycled Water)	153	155	144	138

Facilities and Distribution

Storage Reservoirs

Designation	Type	Capacity (gallons)	Designation	Type	Capacity (gallons)
Wolfe-Evelyn	Steel	5,000,000	Central 1	Steel	500,000
Mary-Carson 1	Steel	5,000,000	Central 2	Steel	500,000
Mary-Carson 2	Steel	5,000,000	Hamilton 1	Steel	500,000
Wright Avenue 1	Steel	5,000,000	Hamilton 2	Steel	500,000
Wright Avenue 2	Steel	5,000,000	Hamilton 3	Steel	500,000
			Total		27,500,000

Wells

Name	Capacity (mgd)	Status
Westmoor	0.8	Active
Serra	0.9	Active
Ortega	2.0	Active
Raynor	2.7	Active
Hamilton (2).	2.0	Active
Losse		Standby
Central	0.7	Active
Schroeder		Destroyed
Total	9.1	

Interties

Name	No.	Diameter (in.)
SCVWD	2	30, 12
Santa Clara	3	10
	2	12
	1	8
CWS	5	6
	1	8
Cupertino	1	12
Mountain View	2	8
	1	6