

City of Santa Clara

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Service Area

The City of Santa Clara is located at the south end of the San Francisco Bay in Santa Clara County. The northern area of the City is predominantly commercial/industrial, while the southern part is primarily residential.

System

Profile

Area Size	19.3 square miles
Service Population	118,263
Number of Accounts	25,454
Number of SFPUC Connections	2
Connections To SFPUC Mains	BDPL 3 and 4
Avg. Day Demand (mgd)	21.67
Avg. Day Purchases From SFPUC (mgd)	1.86
% Demand Met With SFPUC Supplies	8.6%
Maximum Local Water Production (mgd)	23.3 - This volume is historically sustainable for 1 month, but may not be sustainable for longer periods.
Alternative Supply Sources	Local Groundwater
Interties With Other Agencies	Santa Clara Valley WD
Local Storage (mg)	27.3
Days of Storage	1 - Length of storage based on loss of all sources of supply. All zones can meet the 8 hr criteria either separately or by pumping from zones with excess capacity. Well water, normally used supplementally, could supply peak demand in an emergency.

* Average daily demand includes recycled water

Summary

The City of Santa Clara purchases water from SFPUC and SCVWD. Two SFPUC turnouts off BDPL 3 and 4 supply the Northside tank and booster station, which distributes water to the northernmost pressure zone of the City. Water from SCVWD is delivered to the southwest portion of the City through the Santa Clara Distributary.

Water from 27 active wells meet current drinking water standards without treatment, and produce over half of the City's water supply.

The City also operates a recycled water system, which is part of the South Bay Water Recycling system. Tertiary treated effluent from the jointly owned San Jose-Santa Clara Water Pollution Control Plant is available for landscape irrigation and certain industrial uses, distributed within Santa Clara by about 20 miles of pipeline.

Water Supply and Demand

Supply by Source	Actual FY 08-09 (ccf)	Actual FY 09-10 (ccf)	Actual FY 10-11 (ccf)	Actual FY 11-12 (ccf)
San Francisco Water	1,307,380	1,105,658	1,055,675	910,029
Santa Clara Valley WD	1,844,895	6,150,700	1,942,379	1,974,197
Local Groundwater	6,638,743	1,043,046	6,065,354	6,343,450
Recycled Water	1,061,898	1,839,925	1,133,659	1,347,819
Other	0	0	0	0
Total	10,852,916	10,139,329	10,197,067	10,575,495
mgd equivalent	22.24	20.78	20.90	21.67

Demand by Sector

Residential	4,909,184	4,505,829	4,421,763	4,729,713
Commercial/Industrial	4,756,270	2,634,777	4,134,909	4,336,681
Other	870,896	1,421,161	498,376	1,001,974
Dedicated Irrigation	0	1,271,243	645,506	0
Unaccounted for	316,566	306,319	496,513	507,127
Total	10,852,916	10,139,329	10,197,067	10,575,495
mgd equivalent	22.24	20.78	20.90	21.67

Per Capita Use	Actual FY 08-09 (gpcpd)	Actual FY 09-10 (ccf)	Actual FY 10-11 (ccf)	Actual FY 11-12 (ccf)
Residential	86	78	76	82
Gross (Less Recycled Water)	171	175	176	160

Facilities and Distribution

Storage Reservoirs

Designation	Type	Capacity (mg)
Northside	Steel	9.4
Serra	Steel	13.2
Downtown	Steel	4.2
Walsh	Steel	0.5
Total		27.3

Wells

Name	Capacity (mgd)	Status
Well 2-02	2.7	Active
Well 3-02	2.6	Active
Well 4	1.4	Active
Well 5-02	2.3	Active
Well 6.	2.4	Active
Well 7	1.7	Active
Well 8	1.6	Active
Well 9-02	1.5	Active
Well 10	2.4	Active
Well 11	2.5	Active
Well 12	2.1	Active
Well 13-02	2.4	Active
Well 14	1.6	Active
Well 15	1.2	Active

Name	Capacity (mgd)	Status
Well 16-02	1.6	Active
Well 17-02	2.9	Active
Well 18-02	1.9	Active
Well 21	2.6	Active
Well 22-02	1.7	Active
Well 23	2.6	Active
Well 24	2.2	Active
Well 25	1.3	Active
Well 26	1.4	Active
Well 28	2.8	Active
Well 29	2.7	Active
Well 30	2.0	Active
Well 34	1.4	Active
Total	55.5	

Interties

Name	No.	Diameter (in.)
SCVWD	1	10