

Stanford University

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Service Area

The Stanford Utilities Division supplies water to the campus area and nearby Stanford unincorporated lands.

System

Profile

Area Size	3.1 square miles
Service Population	29,026*
Number of Accounts	n/a
Number of SFPUC Connections	3
Connections To SFPUC Mains	BDPL 3 and 4, 1 turnout off Palo Alto Pipeline
Avg. Day Demand (mgd)	3.53
Avg. Day Purchases From SFPUC (mgd)	2.31
% Demand Met With SFPUC Supplies	100% drinking water
Maximum Local Water Production (mgd)	1.22**
Alternative Supply Sources	Local Groundwater, Surface Water
Interties With Other Agencies	Palo Alto
Local Storage (mg)	8
Days of Storage	2.5 – All 3 zones can meet the 8 hr criteria either separately or by pumping from zones with excess capacity. Wells can supply an additional 3.7 mgd in an emergency.

*Average daytime population is used for current and future projections.

**Local ground water use was higher due to below normal surface water availability and maintenance on a non-potable storage reservoir.

Summary

Stanford has three sources of water supply: purchased potable water from the SFPUC, groundwater, and non-potable surface water from the local watershed.

SFPUC water is delivered through two turnouts off BDPL 3 and 4 and one turnout off the Palo Alto pipeline. There are four wells located on Stanford property that could be used in an emergency. Three of the wells are in compliance with all drinking water standards, while the fourth well is “standby”, since its manganese levels exceed current standards. The wells are used routinely for irrigation (non-potable supply).

Stanford also has a non-potable (lake) water system that supplies about 80% of its irrigation needs in an average year. Availability of this source is highly dependent upon timing, volume, and duration of precipitation. In dry years this source is supplemented by two other sources of water, SFPUC water and well water. During average rainfall conditions, Stanford’s use of lake water reduces Stanford’s dependence and consumption of SFPUC water. However, when lake water supplies are limited, Stanford’s consumption of SFPUC water could increase.

Water Supply and Demand

Supply by Source	Actual FY 04-05 (ccf)	Actual FY 05-06 (ccf)	Actual FY 06-07 (ccf)	Actual FY 07-08 (ccf)
San Francisco Water	1,127,114	1,085,236	1,112,857	1,125,377
Local Groundwater	118,652	53,695	69,533	341,378
Surface Water	325,398	307,971	394,588	255,917
Other	0	0	0	0
Total	1,571,164	1,446,902	1,576,978	1,722,672
mgd equivalent	3.22	2.97	3.23	3.53

Demand by Sector

Residential	553,221	551,020	563,567	565,966
Commercial/Industrial	355,252	326,498	350,812	359,828
Other	662,691	626,017	639,186	794,321
Unaccounted for	0	-56,633	23,413	2,557
Total	1,571,164	1,446,902	1,576,978	1,722,672
mgd equivalent	3.22	2.97	3.23	3.53

Per Capita Use	Actual FY 04-05 (gpcpd)	Actual FY 05-06 (gpcpd)	Actual FY 06-07 (gpcpd)	Actual FY 07-08 (gpcpd)
Residential	n/a	n/a	n/a	40
Gross	130	111	117	122

Facilities and Distribution

Storage Reservoirs

Designation	Type	Capacity (gallons)
Foothill 1		2,000,000
Foothill 2		6,000,000
San Juan		0
Total		8,000,000

Wells

Name	Capacity (gpm)	Status
Well 1	500	Active
Well 2	500	Active
Well 3R	1200	Active
Well 4R	400	Pending CDPH Permit
Well 5	500	Standby
Total	3100	

Interties

Name	No.	Diameter (in.)
Palo Alto	2	8