

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	27,491
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)	3.17
Avg. Day Purchases From SFPUC (mgd)	2.14
% Demand Met With SFPUC Supplies	67.5% (100% of drinking water)
Average Day Local Water Production (mgd)	1.03
Alternative Supply Sources	Local groundwater, surface water, recycled 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.

** In FY-08-09, Stanford completed a recycled water plant that treats wastewater from the Central Energy Facility cooling tower blow-down for reuse for toilet and urinal flushing in new buildings.

Summary

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

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.

Stanford also has a non-potable (lake) water system that supplies about 80% of its irrigation needs, significantly reducing Stanford’s use of potable water for irrigation. This system is typically supplied by Stanford’s surface water diversions, and supplemented by ground water. The extent of ground water use depends on the amount of rainfall and resulting surface water supply availability. The lake water system can also be supplied as needed by SFPUC water.

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	1,112,857	1,125,377	1,045,886	1,043,864
Local Groundwater	69,533	341,378	285,628	149,039
Surface Water	394,588	255,917	242,369	352,508
Other	0	0	37	0
Total	1,576,978	1,722,672	1,573,920	1,545,411
mgd equivalent	3.23	3.53	3.23	3.17

Demand by Sector

Residential	563,567	565,966	544,759	507,468
Commercial/Industrial	350,812	359,828	305,800	302,696
Other	639,186	794,321	747,105	728,732
Unaccounted for	23,413	2,557	-23,744	6,515
Total	1,576,978	1,722,672	1,573,920	1,545,411
mgd equivalent	3.23	3.53	3.23	3.17

Per Capita Use	Actual FY 06-07 (gpcpd)	Actual FY 07-08 (gpcpd)	Actual FY 08-09 (gpcpd)	Actual FY 09-10 (gpcpd)
Residential	n/a	n/a	n/a	n/a
Gross	117	122	118	115

Note: Due to its unique service area, Stanford's residential per capita numbers are excluded.

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

*San Juan is currently out of service.

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

*Actual total well capacity will be less than total indicated. Simultaneous pumping of wells will affect the individual well pumping rates.