

City of Hayward

Public Works Department - Utilities Division

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Service Area

The City of Hayward is located in south Alameda County on the eastern shore of the San Francisco Bay.

System

Profile

Area Size	62.5 square miles
Service Population	150,878
Number of Accounts	32,382
Number of SFPUC Connections	4 (two at each turnout)
Connections To SFPUC Mains	BDPL 1 and 2
Avg. Day Demand (mgd)	18.57
Avg. Day Purchases From SFPUC (mgd)	18.57
% Demand Met With SFPUC Supplies	100%
Maximum Local Water Production (mgd)	0
Alternative Supply Sources	Local Groundwater (Emergency Use Only)
Interties With Other Agencies	ACWD, EBMUD
Local Storage (mg)	28.1
Days of Storage	1.4 - All zones can meet the 8 hr criteria either separately or by pumping from zones with excess capacity. Well water could be used in an emergency.

Summary

The City of Hayward obtains its entire water supply from the SFPUC at two turnouts, one at the Irvington Portal and one at the Newark valve lot. The distribution system consists of 6 main pressure zones, 14 water storage tanks, and 7 pump stations delivering water to upper pressure zones. The transmission system attached to the Hetch Hetchy aqueduct is complemented by two booster pump stations: the Decoto pump station, located along the Mission Boulevard 24" transmission main, and the Hesperian pump station, located along the Hesperian Boulevard 42" transmission main. Multiple pressure reducing stations interface between the transmission and distribution systems. Five emergency water wells can be brought online in the event of a transmission system failure.

There is at least one storage tank located within each pressure zone, with pump stations to deliver water to the higher elevation zones. Water is delivered to the 250 pressure zone from SFPUC with sufficient pressure under most conditions. Storage is located in the eastern portion of the City, east of Mission Blvd. The Decoto and/or Hesperian pump

stations boost pressure in the 250 zone when necessary. All five emergency wells are located west of Mission Blvd., as are three of the City's four emergency interties.

Water Supply and Demand

Supply by Source	Actual FY 05-06 (ccf)	Actual FY 06-07 (ccf)	Actual FY 07-08 (ccf)	Actual FY 08-09 (ccf)
San Francisco Water	8,761,512	8,901,286	9,434,134	9,060,417
Local Groundwater	0	0	0	0
Surface Water	0	0	0	0
Recycled Water	0	0	0	0
Other - EBMUD & ACWD (Temporary supplies)	162,551	0	0	0
Total	8,924,063	8,901,286	9,434,134	9,060,417
mgd equivalent	18.29	18.24	19.33	18.57

Demand by Sector

Residential	4,982,982	5,191,902	5,086,793	4,715,322
Commercial/Industrial	2,354,074	2,477,346	2,501,818	2,301,514
Other	594,869	655,734	701,058	615,126
Unaccounted for*	992,138	576,304	1,144,465	1,428,455
Total	8,924,063	8,901,286	9,434,134	9,060,417
mgd equivalent	18.29	18.24	19.33	18.57

Per Capita Use	Actual FY 05-06 (gpcpd)	Actual FY 06-07 (gpcpd)	Actual FY 07-08 (gpcpd)	Actual FY 08-09 (gpcpd)
Residential	70	72	70	64
Gross	125	123	130	123

*Preliminary and subject to change. Staff believes that unaccounted for water is unrealistically high. The high volume is not representative of true system losses. Staff suspects that there are technical and/or accounting reasons. City staff is considering its options to perform a thorough audit.

Facilities and Distribution

Storage Reservoirs

Designation	Type	Capacity (gallons)	Designation	Type	Capacity (gallons)
Treeview	Concrete	3,000,000	250 West	Concrete	500,000
Maitland	Concrete	1,000,000	Highland 500	Concrete	3,000,000
North Walpert	Concrete	1,500,000	Highland 750	Steel	4,400,000
South Walpert	Steel	5,300,000	Highland 1000*	Steel	1,000,000
D Street	Concrete	1,000,000	Highland 1285	Steel	1,800,000
High School	Concrete	1,000,000	Garin Hills	Steel	1,250,000
250 East	Concrete	500,000	Highland 1530	Steel	2,900,000
			Total		28,150,000

*Currently being replaced with a concrete reservoir with a capacity of 2.18 MG.

Wells

Name	Capacity (mgd)	Status
Well A	1.7	Standby (Emergency)
Well B	2.9	Standby (Emergency)
Well C	4.6	Standby (Emergency)
Well D	1.4	Standby (Emergency)
Well E	3.0	Standby (Emergency)
Total	13.6	

Interties

Name	No.	Diameter (in.)
EBMUD*	3	10, 12, 36**
ACWD	1	12

*Also capable of hydrant-to-hydrant interconnection with EBMUD for firefighting purposes during emergencies.

**Regional intertie between SFPUC and EBMUD.