

# ANNUAL SURVEY



May  
2015

Fiscal Year 2013-14

**BAWSCA**  
Bay Area Water Supply & Conservation Agency



# Bay Area Water Supply and Conservation Agency FY 2013-14

**EXECUTIVE SUMMARY**

**BAWSCA OVERVIEW**

**PAST AND CURRENT PURCHASES FROM SFPUC**

**TOTAL WATER SUPPLY AND DEMAND**

**CURRENT WATER USE BY CUSTOMER CLASS**

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**CURRENT WATER USE PER CAPITA**

**CURRENT RESIDENTIAL WATER BILLS**

**AGENCY PROFILES**

MAY 2015

# BAWSCA WATER FACTS AT-A-GLANCE – FY 2013-14

## BAWSCA Member Agencies

**San Mateo County** - City of Brisbane / Guadalupe Valley Municipal Improvement District, City of Burlingame, California Water Service Company (Bear Gulch District, Mid-Peninsula District), South San Francisco District), Coastside County Water District, City of Daly City, City of East Palo Alto, Estero Municipal Improvement District, Town of Hillsborough, City of Menlo Park, Mid-Peninsula Water District, City of Millbrae, North Coast County Water District, City of Redwood City, City of San Bruno, and Westborough Water District

**Santa Clara County** - City of Milpitas, City of Mountain View, City of Palo Alto, Purissima Hills Water District, San Jose Municipal Water System – North, City of Santa Clara, Stanford University, and City of Sunnyvale

**Alameda County** - Alameda County Water District, City of Hayward

## Service Areas

	Size (sq. mi.)	Population	Number of Agencies
San Mateo County	185	723,378	16
Santa Clara County	117	528,282	8
Alameda County	166	491,037	2
<b>Total</b>	468	1,742,697	26

## Supply by Source

	ccf	mgd	af	%
San Francisco RWS	72,453,975	148.48	166,331	66.3%
Groundwater	13,990,808	28.67	32,118	12.8%
Surface Water	115,328	0.24	265	0.1%
Recycled Water	3,531,848	7.24	8,108	3.2%
Other Sources	19,184,092	39.31	44,041	17.6%
<b>Total</b>	109,276,050	223.94	250,863	100%

## Demand by Sector

	ccf	mgd	af	%
Residential	65,001,836	133.21	149,224	59.5%
Commercial/Industrial	23,145,098	47.43	53,134	21.2%
Government/Institutional/Other	5,819,941	11.93	13,361	5.3%
Dedicated Irrigation	11,194,433	22.94	25,699	10.2%
Unaccounted for	4,114,742	8.43	9,446	3.8%
<b>Total</b>	109,276,050	223.94	250,863	100%

## Water Measurements

af = acre-foot; 1 af = 435.6 ccf or 325,851 gallons

ccf = 100 cubic feet; approximately 748 gallons

gpcd = gallons per capita per day

mgd = million gallons per day

Cover photo: Pulgas Water Temple after Bay Tunnel opening, October 15, 2014. Image Courtesy of the SFPUC/Photographer Carmen Magana

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# Annual Survey

FISCAL YEAR 2013-14

## ABOUT BAWSCA

The Bay Area Water Supply and Conservation Agency (BAWSCA) is a water agency that provides regional water supply planning, resource development, and conservation program services to enhance the reliability of the 16 cities, 8 water districts, and 2 private water providers that provide water to 1.7 million people and nearly 40,000 commercial, industrial and institutional accounts in Alameda, Santa Clara and San Mateo Counties. BAWSCA was enabled by a special act of the California Legislature and was formed by its member agencies in 2003.

BAWSCA's water management objective is to ensure a reliable supply of high quality water at a fair price to protect the health, safety, and economic well-being of the people, businesses, and community organizations within its service area.

Additionally, BAWSCA is the only entity having authority under state law to directly represent the interests of its member agencies in matters related to the San Francisco Regional Water System (SF RWS). BAWSCA provides the ability for the customers of the SF RWS to work with San Francisco on an equal basis to ensure that the system gets fixed, and to collectively and efficiently meet local responsibilities.

## BAWSCA MEMBER AGENCIES

Collectively, BAWSCA member agencies provide water to 1.7 million people in Alameda, Santa Clara, and San Mateo Counties.

### San Mateo County

Within San Mateo County, BAWSCA and its member agencies serve a population of approximately 723,000 within a service area of approximately 185 square miles. BAWSCA member agencies that serve San Mateo County include: City of Brisbane, City of Burlingame, California Water Service (CWS) – Bear Gulch, CWS – Mid-Peninsula, CWS – South San Francisco, Coastside County Water District, City of Daly City, City of East Palo Alto, Estero Municipal Improvement District, Guadalupe Valley Municipal Improvement District (GVMID), Town of Hillsborough, City of Menlo Park, Mid-Peninsula Water District, City of Millbrae, North Coast County Water District, City of Redwood City, City of San Bruno, and Westborough Water District.

### Santa Clara County

In Santa Clara County, BAWSCA and its member agencies serve a population of approximately 528,000 within a service area of approximately 117 square miles. BAWSCA member agencies that serve Santa Clara County include: City of Milpitas, City of Mountain View, City of Palo Alto, Purissima Hills Water District, San Jose Municipal Water System, City of Santa Clara, City of Sunnyvale, and Stanford University

### Alameda County

Within Alameda County, BAWSCA and its member agencies serve a population of approximately 491,000 within a service area of approximately 166 square miles. BAWSCA member agencies that serve Alameda County include Alameda County Water District and the City of Hayward.

**BAWSCA Members Map**



**Legend**

- |   |                                      |
|---|--------------------------------------|
| 1 Alameda County Water District         | 13 Mid-Peninsula Water District      |
| 2 City of Brisbane                      | 14 City of Millbrae                  |
| 3 City of Burlingame                    | 15 City of Milpitas                  |
| 4a CWS – Bear Gulch                     | 16 City of Mountain View             |
| 4b CWS – Mid-Peninsula                  | 17 North Coast County Water District |
| 4c CWS – South San Francisco            | 18 City of Palo Alto                 |
| 5 Coastside County Water District       | 19 Purissima Hills Water District    |
| 6 City of Daly City                     | 20 City of Redwood City              |
| 7 City of East Palo Alto                | 21 City of San Bruno                 |
| 8 Estero Municipal Improvement District | 22 San Jose Municipal Water System   |
| 9 Guadalupe Valley MID                  | 23 City of Santa Clara               |
| 10 City of Hayward                      | 24 Stanford University               |
| 11 Town of Hillsborough                 | 25 City of Sunnyvale                 |
| 12 City of Menlo Park                   | 26 Westborough Water District        |

**Sources:** BAWSCA, San Mateo County General Plan

## ANNUAL SURVEY OVERVIEW

Since 1996, BAWSCA and its predecessor organization, the Bay Area Water Users Association, has conducted an annual survey of its members in order to update key BAWSCA service area information including projections of wholesale customer water demands and population. This document presents the results of the latest annual survey process, including:

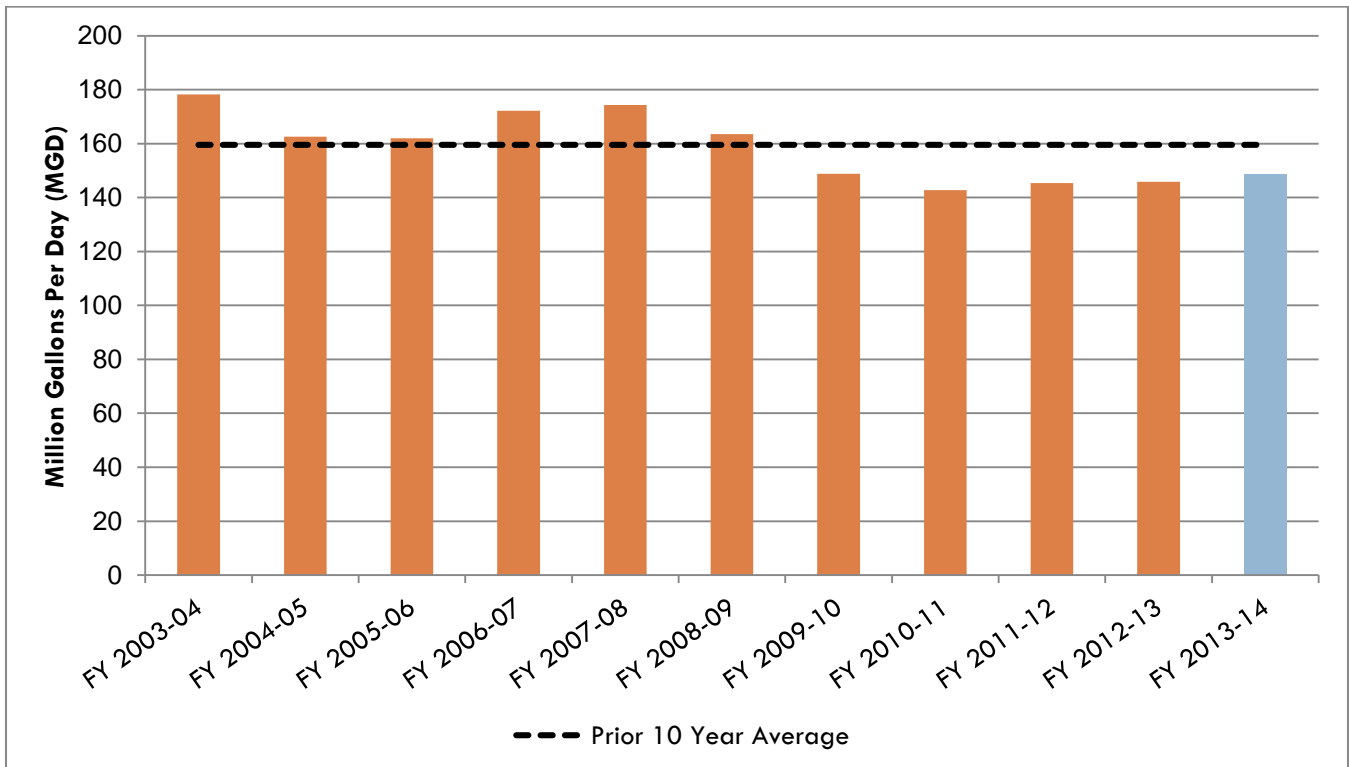
- Current water supply from each source
- Current and projected water purchases from SF RWS
- Projected water supplies and demands
- Consumption by customer class
- Current and projected population
- Per capita water use
- Single family water bills and rate structures
- BAWSCA member agency profiles

## PURCHASES FROM SF RWS

### Current Water Purchases from SF RWS

The San Francisco Public Utilities Commission (SFPUC) operates that SF RWS, which is the major source of supply for BAWSCA member agencies. In FY 2013-14, the BAWSCA member agencies reported SF RWS purchases of 148.5 mgd, up slightly from the total of 145.9 mgd purchased in FY 2012-13. Compared with the prior ten-year average, purchase levels in FY 2013-14 were below average by 13.2 mgd. Compared to FY 2003-04, the highest year in the prior ten-year period, FY 2013-14 purchases are lower by 32.7 mgd, a difference of about 18%. The highest single year SF RWS purchases occurred in FY 1986-87 when the BAWSCA member agencies purchased 184.8 mgd from the SF RWS.

**Figure ES-1: Past and Current SF RWS Purchases**



## Voluntary Ten Percent Water Use Reduction

On January 31, 2014, SFPUC officially asked all customers of the SF RWS to voluntarily curtail water consumption for the remainder of the calendar year. The goal was to reduce system-wide usage by 10%, from 157.4 mgd projected BAWSCA member agency calendar year 2014 water purchases to 141.7 mgd. The request was consistent with the SFPUC’s plans to implement rationing in early years of a drought to postpone the need for potential mandatory water conservation requests should the drought persist in the short-term. The BAWSCA member agencies exceeded the 10% target and achieved a total water savings of 13% (20.7 mgd) in calendar year 2014 (Source: SFPUC Commercial Division Records).

*In January 2014, SFPUC requested that all customers of the Regional Water System voluntarily reduce water use by 10%*

## Projected Water Purchases from SFPUC

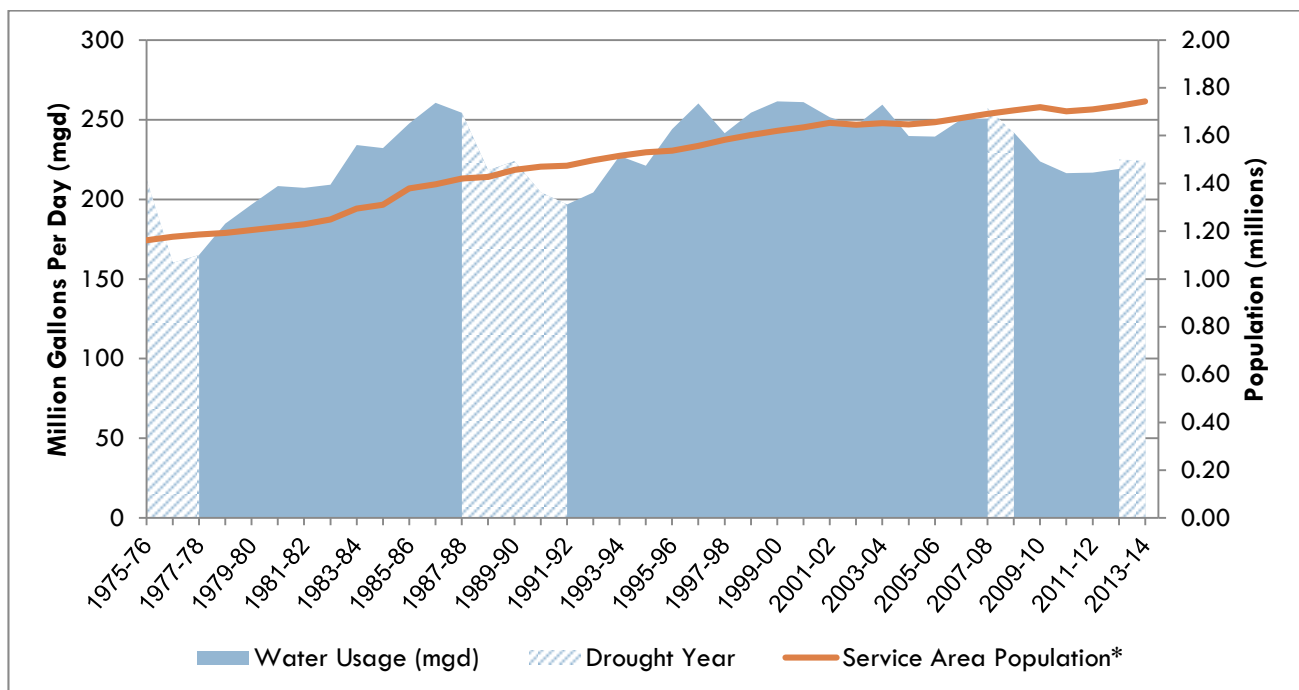
As part of its action on the Program Environmental Impact Report (PEIR) for its Water System Improvement Program (WSIP), the SFPUC made the decision to limit wholesale customer purchases from the SF RWS to 184 mgd and retail customer purchases from the SF RWS to 81 mgd through 2018. In June 2014, BAWSCA notified the SFPUC that the projected BAWSCA member agency purchases in 2018 are expected to be 171.8 mgd.

## TOTAL WATER DEMAND AND SUPPLY

### Current BAWSCA-Wide Total Water Demand

For FY 2013-14, total water demand of the BAWSCA service area, including SFPUC purchases and other sources, was 223.9 mgd. In comparison, in FY 1996-97, BAWSCA-wide demand reached 260 mgd. Since 1986, 10% less water is used today in the service area despite a 25% population increase.

**Figure ES-2: Past and Current Population and Water Demand**

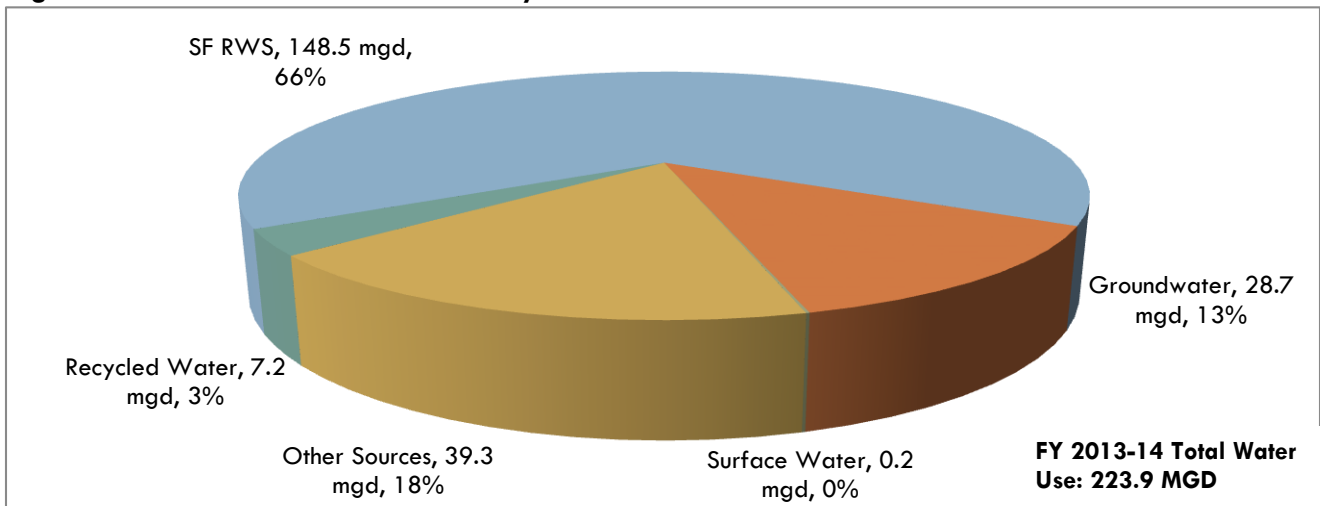


### Current Water Supply by Source

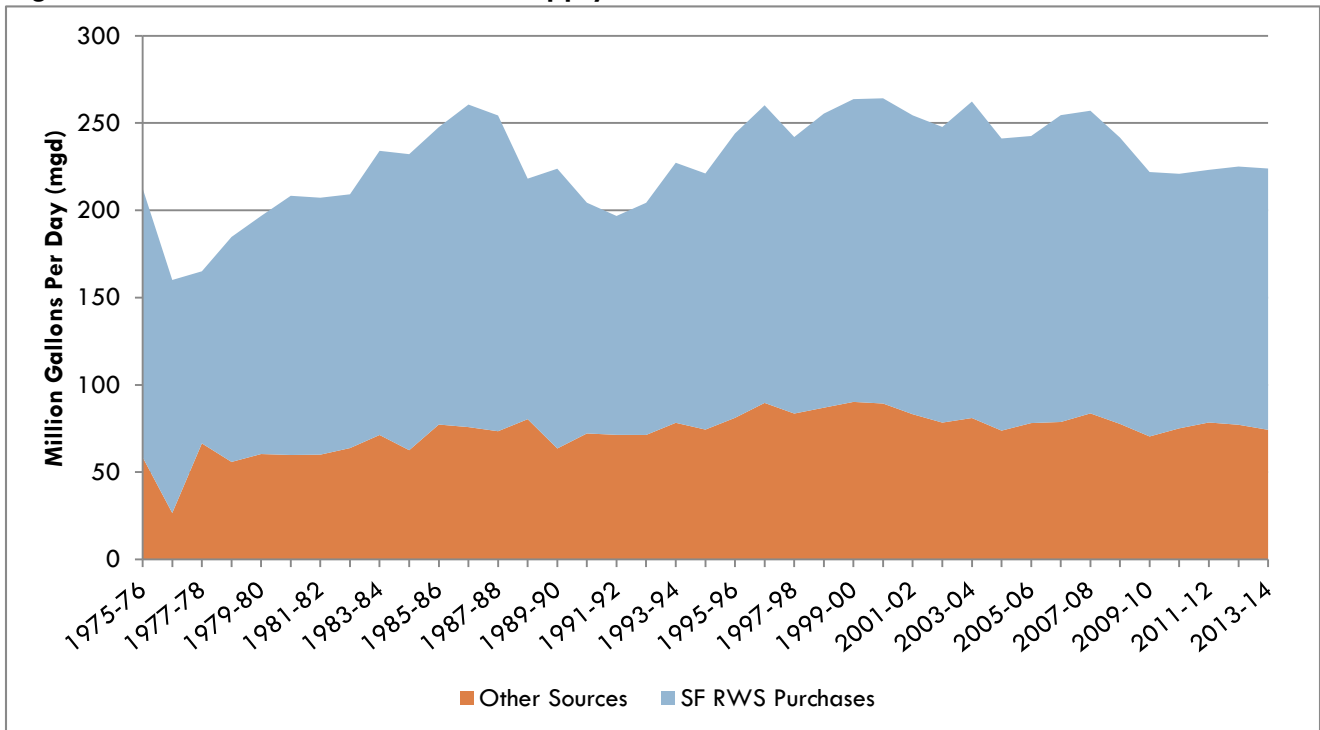
The sources of supply used by BAWSCA member agencies are very consistent, varying by less than 2% from one year to the next. Of the total amount of water used by BAWSCA agencies in FY 2013-14, 66.3% came from the SF RWS and 33.7% came from other sources. These other sources included:

- Groundwater(28.7 mgd, 12.8%);
- Local surface water, primarily from ACWD’s take from Lake Del Valle (0.2 mgd, 0.1%);
- Other supplies from the Santa Clara Valley Water District and the State Water Project (39.3 mgd, 17.6%); and
- Recycled water (7.2 mgd, 3.2%).

**Figure ES-3: FY 2013-14 Water Use by Source**



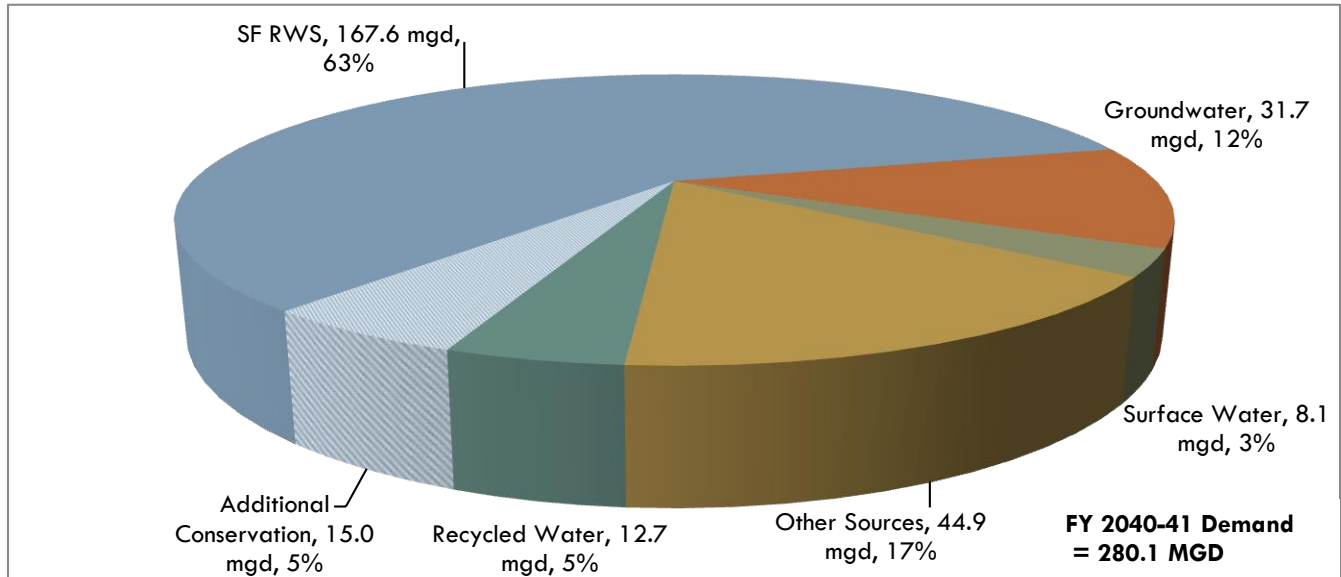
**Figure ES-4: Past and Current Water Supply**



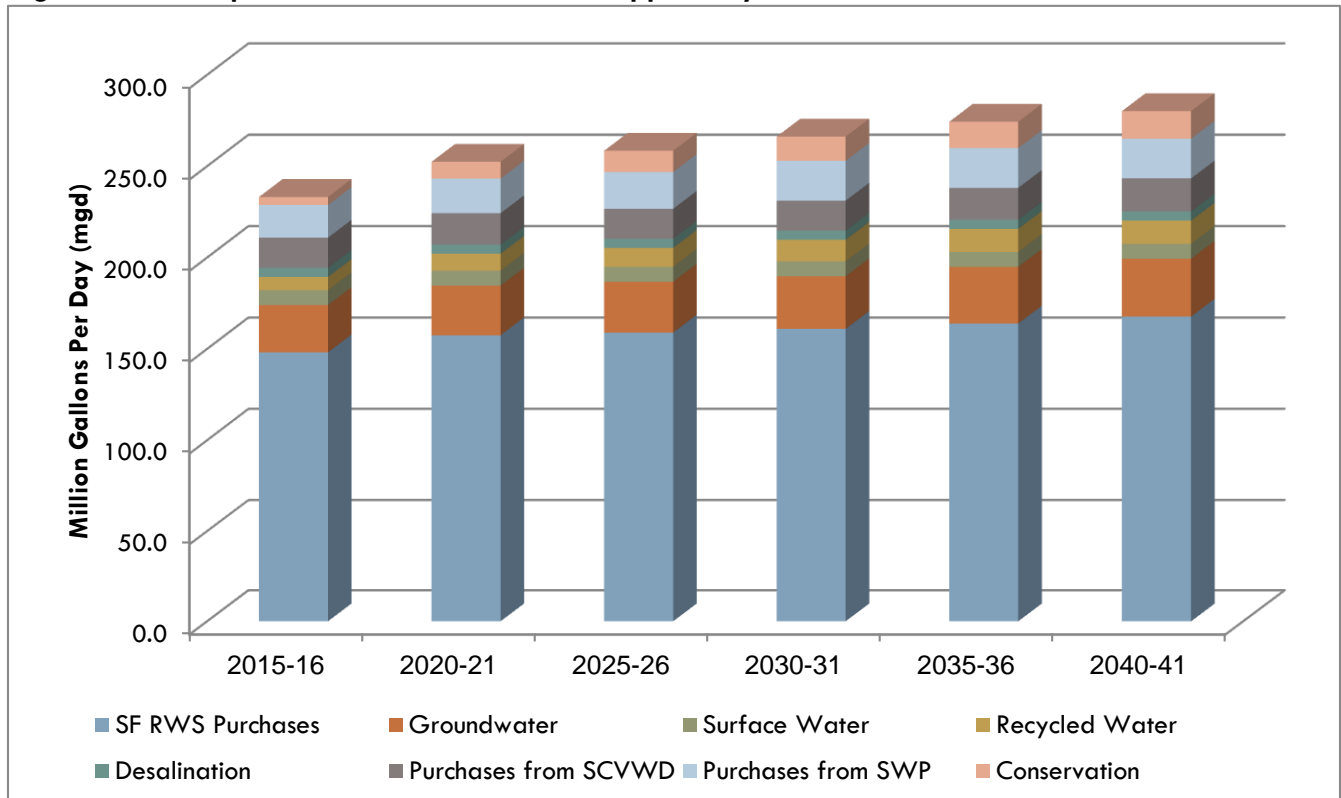
### Projected Water Supplies and Demands

The total normal year water demands of BAWSCA member agencies are projected to reach 280.1 mgd by FY 2040-41 (Source: FY 2013-14 Annual Survey). Of these demands, it is projected 15.0 mgd will be met with additional active water conservation beyond what has already been achieved in the service area. Recycled water supplies are projected to increase by 76% to 12.7 MGD by FY 2040-41. SF RWS purchases are anticipated to be 167.6 mgd in FY 2040-41.

**Figure ES-5: Projected FY 2040-41 Water Use by Source**



**Figure ES-6: Projected Normal Year Water Supplies by Source**



## Meeting Projected Dry Year Water Demands

During normal years, BAWSCA’s recently completed Long-Term Reliable Water Supply Strategy Phase II Final Report (Strategy) does not project a need for additional water supplies to meet normal year demands through 2040. However, the Strategy identifies reliability shortfalls on the SF RWS of up to 43 mgd in dry years during the same planning period, resulting in system-wide SF RWS supply cutbacks of up to 20%. The Strategy identifies nine specific projects in five categories, which, if all projects were successfully implemented and achieved the average anticipated yield, would effectively meet the 43 mgd dry year supply need.

*BAWSCA’s Long Term Reliable Water Supply Strategy identifies water supply options to meet potential dry year supply shortfalls of up to 43 mgd.*

The Strategy identifies recommended actions toward the implementation of each project so as to maximize the likelihood that BAWSCA and its member agencies can provide water when and where it is needed. These actions include:

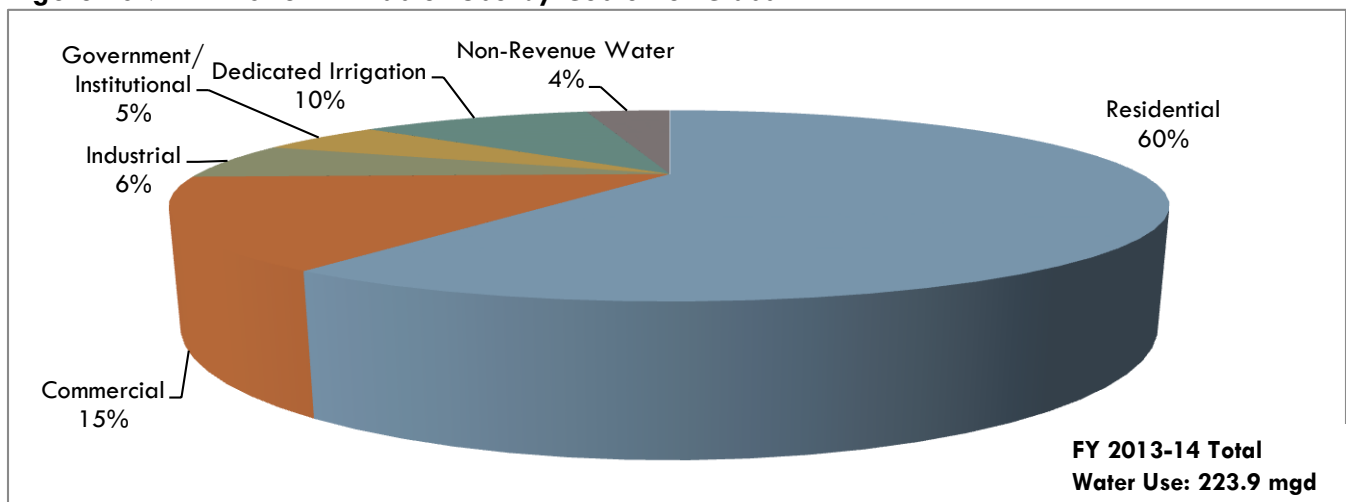
- Lead water transfer development and implementation including identifying and evaluating water storage options
- Facilitate desalination partnerships and pursue outside funding for related studies;
- Support member agency-identified projects (i.e. recycled water and groundwater) and local capture and reuse;
- Participate in regional planning studies in cooperation with others; and
- Continue monitoring regional water supply investments and policies.

## CURRENT WATER USE BY CLASS OF CUSTOMER

As with the source of supply, BAWSCA’s demand by customer class is relatively consistent over time. Of the 223.9 mgd consumed among BAWSCA agencies in FY 2013-14, the residential sector accounted for 59.5% (133.2 mgd); Commercial and industrial customers for 21.2% (47.4 mgd); government, institutional and other customers for 5.3% (11.9 mgd); dedicated irrigation for 10.2% (22.94 mgd); and non-revenue water for 3.8% (8.5 mgd).

In FY 2013-14, there were 427,891 accounts (service connections) in the entire BAWSCA service area, 89% or 378,880 of which were residential.

**Figure ES-7: FY 2013-14 Waster Use by Customer Class**

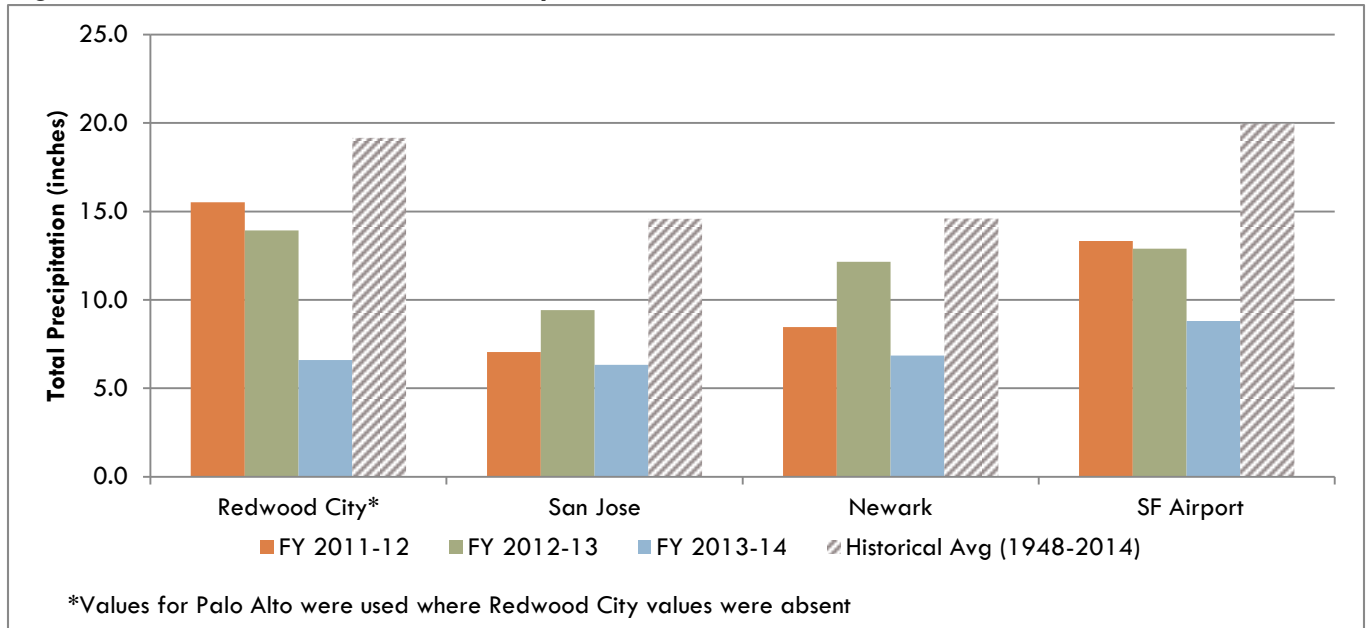




## CLIMATE DATA

In FY 2013-14, rainfall totals recorded at 4 representative locations in the BAWSCA service area were, on average, 58% lower than the historical average from 1948 - 2014. In FY 2011-12 and FY 2012-13 rainfall totals recorded at these locations were also below average by 35% and 29% respectively.

**Figure ES-8: Historic and Current Precipitation Levels**



## POPULATION AND PER CAPITA WATER USE

The population of the BAWSCA service area is estimated to have increased from 1,724,014 to 1,742,697 between FY 2012-13 and FY 2013-14. The BAWSCA service area population is projected to reach 2,148,635 by FY 2040-41.

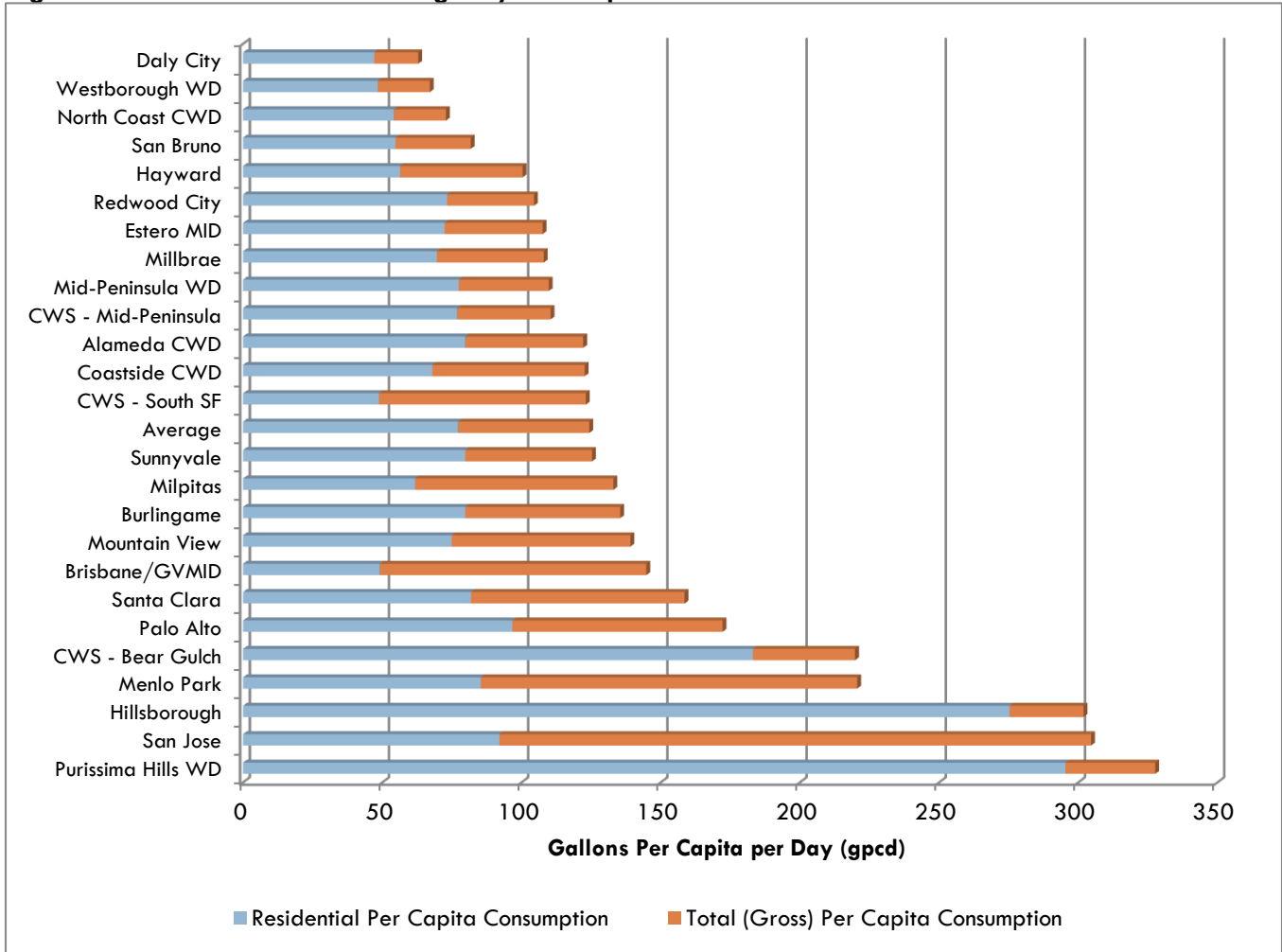
Average residential per capita consumption (excluding Stanford) in the BAWSCA service area was 77.3 gpcd in FY 2013-14, slightly less than the year before. This is 26% less than the estimated 114.9 gpcd at the peak in FY 1975-76 and 20% less than per capita use in FY 2000-01. In FY 2013-14, Daly City had the lowest residential per capita consumption at 47.1 gpcd while Purissima Hills Water District had the highest at 295.4 gpcd.

*In FY 2013-14, seven BAWSCA member agencies had a residential per capita water use of less than 55 gallons per capita per day.*

The average gross per capita consumption in the BAWSCA service area was 124.3 gpcd in FY 2013-14, slightly lower than FY 2012-13. At the peak in FY 1986-87, gross per capita consumption was 186.5 gpcd.



**Figure ES-9: BAWSCA Member Agency Per Capita Water Use**

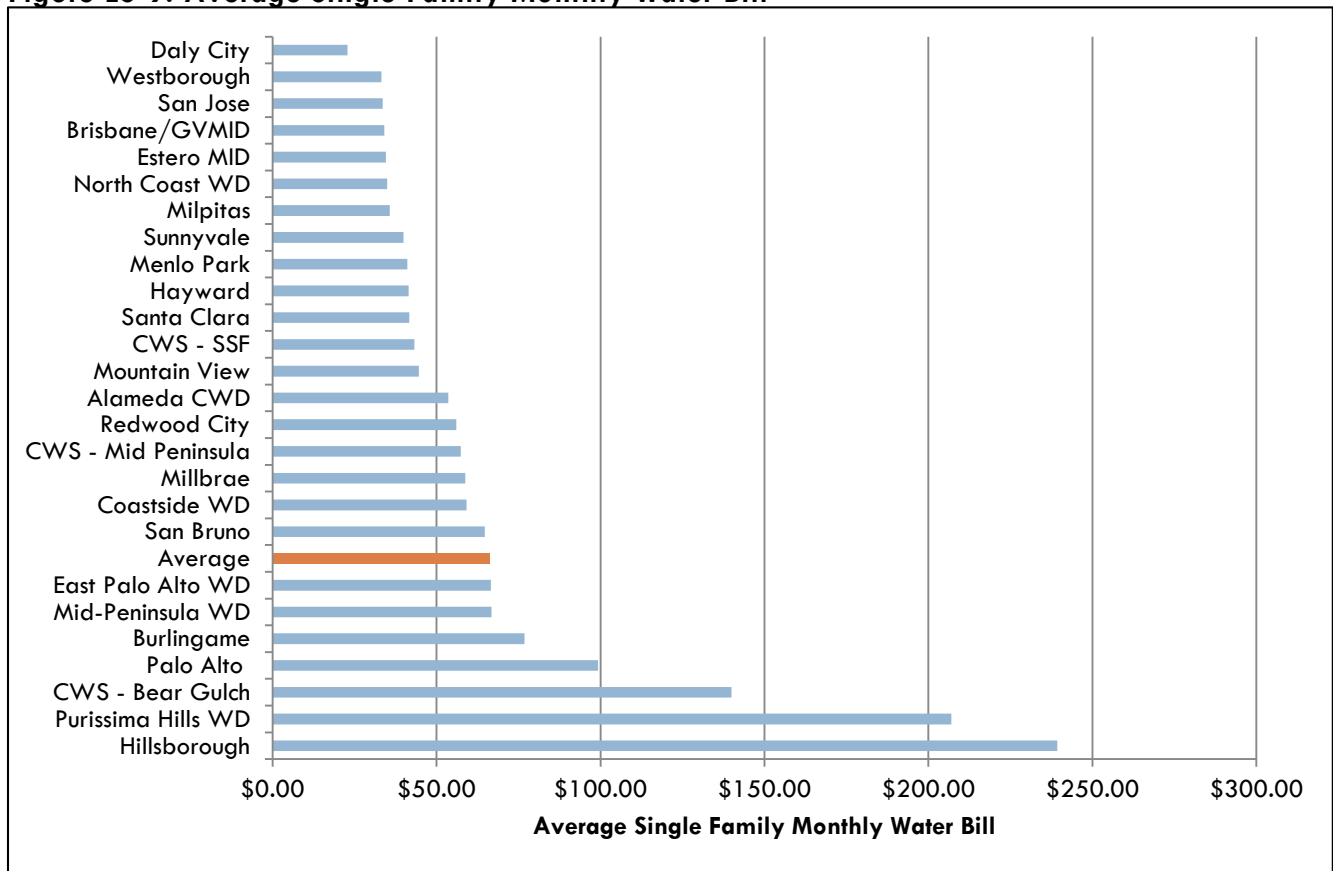


## SINGLE FAMILY WATER AND RATE STRUCTURES

Water bill data has been calculated using each agency’s single family average monthly use. Among the BAWSCA agencies, the average bill ranged from a low of \$22.82 for 7.5 units in the Daly City service area to a high of \$239.24 for 29.1 units in Hillsborough. The average single family water bill among the BAWSCA member agencies, inclusive of the service charge, was \$67.27

Of the 27 BAWSCA member agency service areas surveyed regarding water bills, five (Alameda County Water District, East Palo Alto, Millbrae, Santa Clara, and Westborough Water District) had a uniform rate structure in FY 2013-14, defined as a single rate per unit of water for all volumes used. The other agencies have an inclining block rate structure in which the rate per unit increases as the water use increases.

**Figure ES-9: Average Single Family Monthly Water Bill**



# 1. BAWSCA Overview



## BAY AREA WATER SUPPLY AND CONSERVATION AGENCY

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San Mateo, CA 94402

Ph. (650) 349-3000 Fax: (650) 349-8395

E-Mail: [BAWSCA@BAWSCA.org](mailto:BAWSCA@BAWSCA.org)

### Goals

To ensure a reliable supply of high quality water at a fair price.

### Composition

BAWSCA is a water agency that provides regional water supply planning, resource development, and conservation program services to enhance the reliability of the 16 cities, 8 water districts, and 2 private water providers that provide water to 1.7 million people and nearly 40,000 commercial, industrial and institutional accounts in Alameda, Santa Clara and San Mateo Counties.

BAWSCA was enabled by a special act of the California Legislature and formed by its member agencies to protect the health, safety, and economic well-being of the people, businesses, and community organizations within its service area. BAWSCA's water management objective is to ensure a reliable supply of high quality water at a fair price.

Additionally, BAWSCA is the only entity having authority under state law to directly represent the interests of its member agencies with San Francisco and its agent, the San Francisco Public Utilities Commission (SFPUC), in matters related to the San Francisco Regional Water System (SF RWS). BAWSCA provides the ability for the customers of the SF RWS to work with San Francisco on an equal basis to ensure that the agencies and their customers pay only their fair and correct share of SF RWS costs, to see that the system gets fixed through successful implementation of the Water System Improvement Program (WSIP), and to collectively and efficiently meet local water supply responsibilities.

There is considerable variety among the BAWSCA member agencies. Beyond having different institutional charters (e.g., cities, districts, investor-owned utility, etc.), they vary on at least the following measures:

#### ▣ Size

BAWSCA member agencies range from very small (e.g., the City of Brisbane and Guadalupe Valley Municipal Improvement District, with a combined service area population of roughly 4,282 and a service area of approximately 4 square miles) to quite large, such as Alameda County Water District, with a service area population of approximately 340,000 and a service area of 105 square miles). See Table 1.

#### ▣ Reliance on the San Francisco Regional Water System

Several of the BAWSCA member agencies have no other source of water and are entirely dependent on the SF RWS for water supply. This is particularly the case in San Mateo County, which has limited groundwater and other water supply resources. However, several BAWSCA member agencies have developed, or are developing, their own local sources, or have access to water from the Santa Clara Valley Water District (SCVWD) or from the State Water Project. Coastside County Water District is the only BAWSCA member agency that receives untreated SF RWS water. All of the other BAWSCA member agencies receive treated water from the SF RWS. Collectively, 66% of all water delivered by the BAWSCA member agencies came from the SF RWS in FY 2013-14.

## Customer Mix

Several of the BAWSCA member agencies serve largely or entirely residential communities (e.g., Hillsborough, Purissima Hills Water District, and North Coast County Water District). One, Guadalupe Valley Municipal Improvement District, serves primarily an industrial area. Except for Stanford University, most agencies serve a mix of single family residential, multi-family residential, commercial, and industrial customers, in varying proportions. Nearly 90% of all service connections in the BAWSCA service area are residential, with residential use comprising 59% of total demand in FY 2013-14.

## Climate

The BAWSCA member agencies located on the northern and coastal portions of San Mateo County have the cool temperatures and summer fog characteristics similar to San Francisco. Others in southern San Mateo County, northern Santa Clara County, and southern Alameda County have summer temperatures typically 20 degrees higher than those in San Francisco.

## Land Use

None of the BAWSCA member agencies have a population density comparable to that of San Francisco (about 17,000 persons per square mile). But some (e.g., Daly City and South San Francisco) do have residential housing stock similar to that of the Sunset and Richmond Districts in western San Francisco. Others have much larger lots (with far more green space per residence) and consequently, significantly higher outdoor irrigation demands.

## Water Use

Residential per capita water use correlates with land use, lot size, climate, water conservation, and household income. Per capita use in the wholesale service area ranges from a low of 47 gallons per capita per day (gpcd) to a high of 295 gpcd. Average residential use is 77 gpcd (See Table 7A).

## Governance

BAWSCA is governed by a 26-member Board of Directors comprised of respected community leaders. Each of the 24 cities and water districts that are member agencies of BAWSCA appoint a director to the board. In addition, the Santa Clara County Board of Supervisors appoints a director from Stanford University and the San Mateo County Board of Supervisors appoints a director from the California Water Service Company.

## Organization and Budget

Day-to-day leadership is provided by the Chief Executive Officer/General Manager (Nicole Sandkulla) who is supported by a staff of seven persons. A standing Board Policy Committee, comprised of board members, advises the CEO and the full board on policy matters. The agency's FY 2013-14 budget was \$3.1M, funded through individual agency assessments. In addition, BAWSCA plans and administers water conservation programs throughout the region funded by the agencies that choose to participate.

## Organizational Challenges

BAWSCA's strategic challenges include:

- Developing and implementing the long-term reliable water supply strategy to ensure that water supply needs for the BAWSCA members will be adequately met in times of drought and in the future.
- Monitoring the SFPUC to ensure it completes its capital improvement program for rebuilding the regional water system promptly and cost-effectively with the cost fairly allocated between San Francisco retail and BAWSCA member agencies.

- Encouraging and assisting implementation of cost-effective water conservation and wastewater recycling programs.
- Administering the 2009 water supply agreement between San Francisco and its Wholesale Customers.
- Maintaining support by BAWSCA's political, community, and private allies.
- Encouraging communities to prepare for long-term water outages.

**Table 1: BAWSCA Members Summary – FY 2013-14**

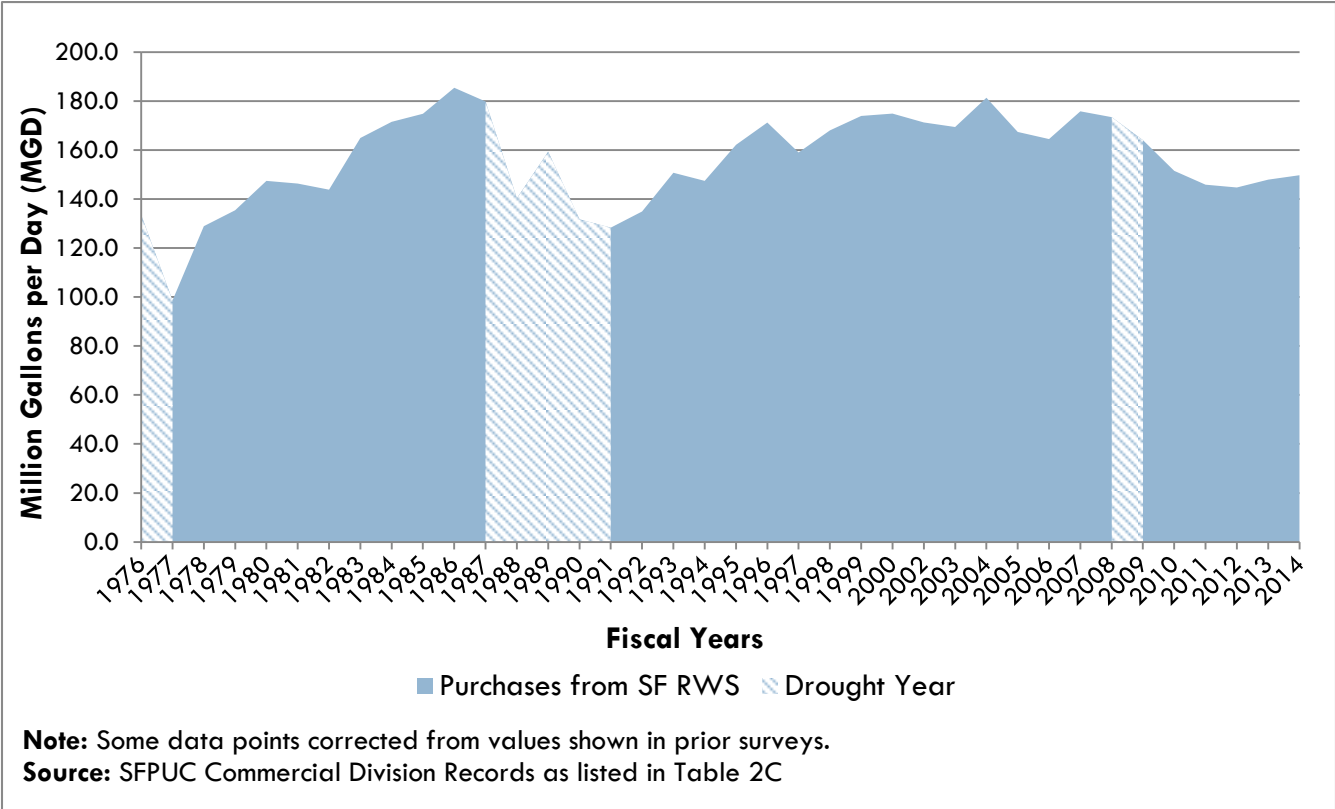
	Service Population	Water Purchased / Produced (mgd)		Communities Served (all or portions of)
		SF RWS	Total	
<b>San Mateo County</b>				
City of Brisbane / Guadalupe Valley Municipal Improvement District	4,282	0.62	0.62	Brisbane, nearby unincorporated areas, and GVMID, and industrial park within the City of Brisbane
City of Burlingame	30,282	4.10	4.40	City of Burlingame, and nearby unincorporated areas
California Water Service Company Bear Gulch District, Mid-Peninsula District, South San Francisco District	247,561	33.53	34.50	Atherton, Colma, Daly City, Los Altos, Menlo Park, Portola Valley, parts of unincorporated Redwood City, San Carlos, San Mateo, South San Francisco, Woodside and nearby unincorporated areas
Coastside County Water District	16,652	1.93	2.04	Half Moon Bay, Princeton by the Sea, Miramar, and El Granada
City of Daly City	104,462	3.51	6.86	Daly City and nearby unincorporated areas
City of East Palo Alto	25,927	1.48	1.49	City of East Palo Alto, Menlo Park, and nearby unincorporated areas
Estero Municipal Improvement District	37,000	3.98	3.98	Foster City and small parts of San Mateo
Town of Hillsborough	10,860	3.28	3.28	Hillsborough and nearby unincorporated areas
City of Menlo Park	16,066	3.54	3.54	Menlo Park west of Altschul Avenue and east of El Camino Real
Mid-Peninsula Water District	26,270	2.89	2.89	Belmont, San Carlos, and nearby unincorporated areas
City of Millbrae	21,532	2.33	2.35	Millbrae and nearby unincorporated areas
North Coast County Water District	39,000	2.84	2.85	Pacifica and nearby unincorporated areas
City of Redwood City	86,427	9.03	9.70	Redwood City, parts of San Carlos and Woodside, and nearby unincorporated areas
City of San Bruno	43,798	1.60	3.58	San Bruno and nearby unincorporated areas
Westborough Water District	13,259	0.89	0.89	Parts of South San Francisco, Daly City, and nearby unincorporated areas
<b>Subtotal</b>	<b>723,378</b>	<b>75.55</b>	<b>82.98</b>	
<b>Santa Clara County</b>				
City of Milpitas	69,783	6.55	10.06	Milpitas and portions of San Jose
City of Mountain View	75,280	8.96	10.79	Mountain View and nearby unincorporated areas
City of Palo Alto	66,642	11.48	12.26	Palo Alto and nearby unincorporated areas
Purissima Hills Water District	6,142	2.01	2.01	Los Altos Hills, parts of Los Altos, and nearby unincorporated areas
San Jose Municipal Water District	15,286	4.66	5.49	North San Jose/Alviso and nearby unincorporated areas
City of Santa Clara	118,459	2.08	22.05	Santa Clara and nearby unincorporated areas
Stanford University	29,635	2.10	3.18	Stanford University
City of Sunnyvale	147,055	8.29	18.43	Sunnyvale and nearby unincorporated areas
<b>Subtotal</b>	<b>528,282</b>	<b>46.12</b>	<b>84.27</b>	
<b>Alameda County</b>				
Alameda County Water District	340,000	11.65	41.55	Union City, Newark, Fremont and nearby unincorporated areas
City of Hayward	151,037	15.17	15.17	Hayward and nearby unincorporated areas
<b>Subtotal</b>	<b>491,037</b>	<b>26.82</b>	<b>56.72</b>	
<b>Total All Agencies</b>	<b>1,742,697</b>	<b>148.49</b>	<b>223.97</b>	
<b>Source: BAWSCA FY 2013-14 Annual Survey</b>				



## 2. Past and Current Purchases from SF RWS



Figure 2A: Past and Current Purchases from SF RWS (Inclusive of Supplemental Purchases)



**Table 2A: Past and Current Purchases from SF RWS and Relationship to Supply Guarantee (Excluding Supplemental Purchases)**

Member	Supply		Predrought		Actual													2013-14/		2013-14
	Guarantee	mgd Equiv	FY 1986-87	mgd Equiv	FY 2003-04	FY 2004-05	FY 2005-06	FY 2006-07	FY 2007-08	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	mgd Equiv	% Change	Purchases as % of Guarantee		
<b>San Mateo County</b>																				
* Brisbane	224,435	0.46	171,507	0.35	192,518	175,335	191,963	148,937	182,661	179,743	123,803	275,934	280,650	287,290	302,776	0.58	1.7	134.9		
* Burlingame	2,553,753	5.23	2,531,707	5.19	2,335,235	2,205,818	2,121,360	2,209,757	2,195,474	2,086,616	1,920,815	1,971,599	2,012,282	1,952,965	2,001,619	4.12	2.1	78.4		
California Water Service **	17,320,807	35.50	17,393,987	35.65	18,815,046	17,024,290	17,030,914	18,279,882	18,414,636	17,561,079	15,815,998	15,668,088	16,101,764	15,212,752	16,361,264	33.00	7.5	94.5		
Coastside CWD	1,061,453	2.18	600,257	1.23	922,578	862,286	899,064	1,006,844	1,014,105	977,849	887,675	806,110	832,099	885,896	940213.91	1.93	6.1	88.6		
Daly City	2,094,386	4.29	2,264,684	4.64	2,431,265	2,042,053	1,519,263	1,747,221	2,187,273	2,113,320	1,542,719	1,405,560	1,811,358	1,955,442	1,713,514	3.51	-12.4	81.8		
* East Palo Alto	957,813	1.96	1,041,989	2.14	1,009,447	751,516	927,742	976,874	996,587	938,045	842,883	863,282	907,662	1,008,253	723,320	1.48	-28.3	75.5		
* Estero MID	2,878,807	5.90	2,854,051	5.85	2,729,471	2,542,371	2,531,846	2,747,662	2,691,080	2,509,929	2,392,839	2,274,588	1,966,984	2,000,497	1,942,333	3.98	-2.9	67.5		
* Guadalupe Valley MID	254,436	0.52	155,074	0.32	162,079	151,270	130,538	115,901	130,485	122,888	152,798	Included with Brisbane								
* Hillsborough	1,995,644	4.09	1,996,150	4.09	1,936,854	1,630,593	1,665,884	1,786,177	1,893,039	1,743,929	1,470,409	1,461,935	1,580,857	1,609,532	1,599,812	3.28	-0.6	80.2		
Los Trancos			34,848	0.07	60,617						Included with CWS-Bear Gulch									
* Menlo Park	2,174,231	4.46	1,958,458	4.01	1,879,405	1,648,914	1,688,803	1,735,075	1,857,088	1,628,275	1,556,801	1,533,788	1,621,745	1,584,636	1,724,965	3.53	8.9	79.3		
* Mid-Peninsula WD	1,898,707	3.89	1,888,074	3.87	1,710,726	1,602,472	1,434,648	1,652,208	1,583,791	1,533,876	1,390,831	1,404,933	1,437,360	1,453,047	1,408,109	2.89	-3.1	74.2		
* Millbrae	1,538,120	3.15	1,528,426	3.13	1,260,900	1,191,005	1,291,729	1,194,450	1,199,327	1,168,008	1,094,867	1,075,971	1,034,254	1,113,147	1,134,741	2.33	1.9	73.8		
* North Coast CWD	1,872,928	3.84	1,618,649	3.32	1,755,460	1,652,192	1,579,110	1,418,174	1,582,423	1,632,364	1,471,838	1,585,572	1,380,360	1,192,485	1,387,578	2.84	16.4	74.1		
* Redwood City	5,333,115	10.93	5,253,772	10.77	5,950,319	5,423,431	5,308,460	5,694,374	5,711,397	5,048,309	4,689,257	4,462,944	4,420,594	4,747,255	4,407,672	9.03	-7.2	82.6		
San Bruno	1,583,899	3.25	1,748,600	3.58	1,178,882	845,569	1,010,659	906,722	968,953	925,521	735,442	775,910	1,017,925	946,503	779,582	1.60	-17.6	49.2		
Skyline			62,726	0.13	89,334	71,748	76,938	80,966	76,864	Included with CWS-Bear Gulch										
* Westborough WD	644,172	1.32	585,151	1.20	458,268	531,903	459,831	532,529	457,299	485,493	394,878	408,487	440,796	441,233	433,980	0.89	-1.6	67.4		
<b>Subtotal</b>	<b>44,386,706</b>	<b>90.96</b>	<b>43,688,110</b>	<b>89.53</b>	<b>44,878,404</b>	<b>40,352,766</b>	<b>39,868,752</b>	<b>42,233,753</b>	<b>43,142,482</b>	<b>40,655,244</b>	<b>36,483,853</b>	<b>35,974,701</b>	<b>36,846,690</b>	<b>36,390,933</b>	<b>36,861,479</b>	<b>75.54</b>	<b>1.3</b>	<b>83.0</b>		
<b>Santa Clara County</b>																				
Milpitas	4,504,533	9.23	4,370,757	8.96	3,482,864	3,245,882	3,246,783	3,363,685	3,346,012	3,373,223	3,044,020	2,954,096	3,060,055	3,115,000	3,194,000	6.55	2.5	70.9		
Mountain View	6,567,648	13.46	6,435,554	13.19	5,354,945	5,128,162	5,040,013	5,349,361	5,074,103	4,788,905	4,332,561	4,162,626	4,346,523	4,389,474	4,373,263	8.96	-0.4	66.6		
* Palo Alto	8,331,697	17.07	8,009,767	16.41	6,524,654	5,896,965	5,802,911	6,361,100	6,205,790	5,677,018	5,362,816	5,440,236	5,561,559	5,547,735	5,600,519	11.48	1.0	67.2		
* Purissima Hills	792,832	1.62	755,077	1.55	1,128,457	980,472	964,747	1,112,291	1,124,922	980,987	854,854	839,360	899,221	972,733	982,100	2.01	1.0	123.9		
San Jose	0	0.00	1,541,153	3.16	2,371,194	2,130,206	2,146,284	2,321,769	2,394,495	2,185,349	1,998,932	2,035,953	2,172,405	2,173,663	2,272,262	4.66	4.5	n/a		
Santa Clara	0	0.00	2,429,766	4.98	1,739,448	2,062,068	2,237,932	2,106,452	1,618,029	1,307,380	1,105,658	1,055,675	910,029	1,118,315	1,012,567	2.08	-9.5	n/a		
Stanford	1,479,764	3.03	1,485,396	3.04	1,231,451	1,127,114	1,085,236	1,112,857	1,125,377	1,045,886	1,043,864	1,035,726	1,051,794	1,029,129	1,024,277	2.10	-0.5	69.2		
Sunnyvale	6,138,122	12.58	7,228,076	14.81	4,675,948	4,260,386	4,766,132	4,505,138	5,072,437	5,181,026	4,771,741	4,043,548	4,436,721	4,526,510	4,046,527	8.29	-10.6	65.9		
<b>Subtotal</b>	<b>27,814,596</b>	<b>57.00</b>	<b>32,255,546</b>	<b>66.10</b>	<b>26,508,961</b>	<b>24,831,255</b>	<b>25,290,038</b>	<b>26,232,653</b>	<b>25,961,165</b>	<b>24,539,774</b>	<b>22,514,446</b>	<b>21,567,221</b>	<b>22,438,307</b>	<b>22,872,559</b>	<b>22,505,515</b>	<b>46.12</b>	<b>-1.6</b>	<b>80.9</b>		
<b>Alameda County</b>																				
Alameda CWD	6,714,439	13.76	6,039,273	12.38	6,019,070	5,128,341	5,115,909	6,667,959	6,534,358	5,477,714	5,102,005	3,825,797	4,052,940	4,371,390	5,684,760	11.65	30.0	84.7		
* Hayward 1	7,402,067	15.17	8,504,158	17.43	9,587,543	9,030,652	8,761,512	8,901,286	9,434,134	9,105,654	8,511,066	8,308,740	7,610,980	7,552,956	7,402,067	15.17	-2.0	100.0		
Residual 1	3,468,288	7.11																		
<b>Subtotal</b>	<b>17,584,794</b>	<b>36.04</b>	<b>14,543,431</b>	<b>29.80</b>	<b>15,606,613</b>	<b>14,158,993</b>	<b>13,877,421</b>	<b>15,569,245</b>	<b>15,968,492</b>	<b>14,583,368</b>	<b>13,613,071</b>	<b>12,134,537</b>	<b>11,663,920</b>	<b>11,924,346</b>	<b>13,086,827</b>	<b>26.82</b>	<b>9.7</b>	<b>74.4</b>		
<b>Total</b>	<b>89,786,096</b>	<b>184.00</b>	<b>90,487,087</b>	<b>185.44</b>	<b>86,993,978</b>	<b>79,343,014</b>	<b>79,036,211</b>	<b>84,035,651</b>	<b>85,072,140</b>	<b>79,778,386</b>	<b>72,611,370</b>	<b>69,676,459</b>	<b>70,948,917</b>	<b>71,187,838</b>	<b>72,453,821</b>	<b>148.48</b>	<b>1.8</b>	<b>80.7</b>		
<b>mgd equiv</b>	<b>184.00</b>		<b>185.44</b>		<b>178.28</b>	<b>162.60</b>	<b>161.97</b>	<b>172.22</b>	<b>174.34</b>	<b>163.49</b>	<b>148.80</b>	<b>142.79</b>	<b>145.40</b>	<b>145.89</b>	<b>148.48</b>					
<b>Total w/o SC&amp;SJ</b>	<b>89,786,096</b>		<b>86,516,168</b>		<b>82,883,336</b>	<b>75,150,740</b>	<b>74,651,995</b>	<b>79,607,430</b>	<b>81,059,616</b>	<b>76,285,657</b>	<b>69,506,780</b>	<b>66,584,830</b>	<b>67,866,483</b>	<b>67,895,860</b>	<b>69,168,992</b>	<b>141.75</b>	<b>1.9</b>	<b>77.0</b>		
<b>mgd equiv</b>	<b>184.00</b>		<b>177.30</b>		<b>169.85</b>	<b>154.01</b>	<b>152.99</b>	<b>163.14</b>	<b>166.12</b>	<b>156.33</b>	<b>142.44</b>	<b>136.45</b>	<b>139.08</b>	<b>139.14</b>	<b>141.75</b>					

\* Agencies receiving 100% of their supply from the SF RWS.

\*\* Inclusive of Bear Gulch, Mid-Peninsula, and South San Francisco districts.

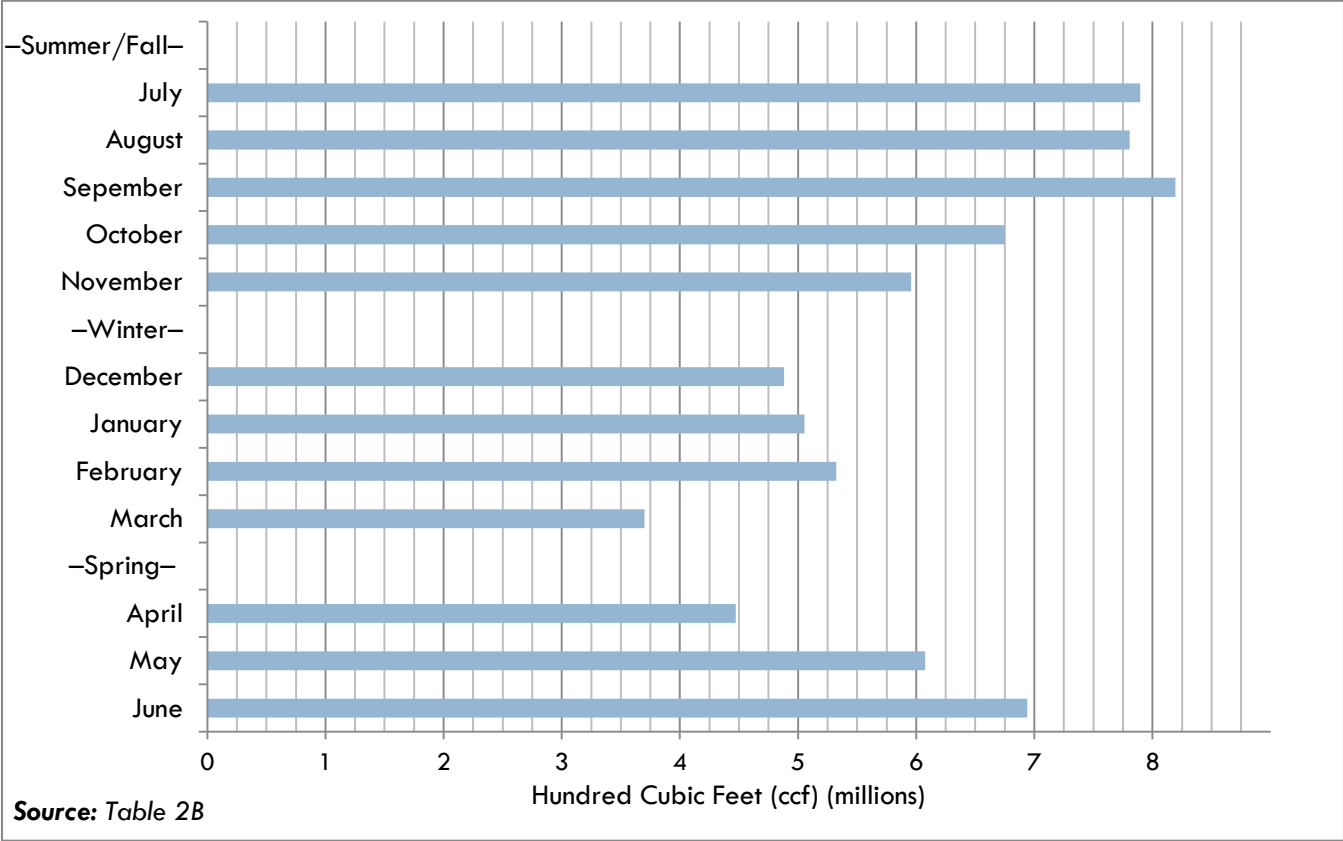
1 Hayward has a unique contract that does not place quantified limits on their purchases from SF RWS. For reporting purposes here, the "supply guarantee" shown for Hayward is their current year purchase (FY 2013-14). The "Residual" total is a calculated number to bring the total to 184 mgd.

Note: Some agencies purchase SF RWS water which is then conveyed to a neighboring agency. The receiving agency is credited with this purchase; the transferring agency debited. This does not include the specific purchase of water by the City of San Bruno from North Coast County Water District.

Note: From 2002-2005, Daly City, CWS-South San Francisco, and San Bruno participated in a pilot conjunctive use program whereby surplus surface water was purchased in lieu of groundwater pumping. Currently, only Daly City has continued with the program on a long term basis. Purchase totals exclude supplemental water purchases. See Table 2D.

Source: BAWSCA Annual Surveys

Figure 2B: Monthly/Seasonal Purchases from SF RWS Among BAWSCA Members – FY 2013-14



**Table 2B: Monthly/Seasonal Purchases from SF RWS Among BAWSCA Members – FY 2013-14 (in ccf)**  
**SFPUC Commercial Division Records Data<sup>1</sup>**

Member	Summer/Fall						Winter				Spring			Year			
	July	Aug	Sept	Oct	Nov	Total	Dec	Jan	Feb	March	Total	April	May	June	Total	Total	mgd
* Alameda CWD	539,837	475,750	477,560	403,186	251,699	<b>2,148,032</b>	289,560	591,435	739,635	371,372	<b>1,992,002</b>	580,768	811,652	305,055	<b>1,697,475</b>	5,837,509	11.96
Brisbane	18,910	23,367	22,205	20,670	20,154	<b>105,306</b>	11,150	9,783	10,267	9,183	<b>40,383</b>	9,105	10,767	13,407	<b>33,279</b>	178,968	0.37
Burlingame	233,041	203,779	223,095	191,236	206,712	<b>1,057,863</b>	189,191	147,428	132,645	85,451	<b>554,715</b>	96,502	122,484	170,055	<b>389,041</b>	2,001,619	4.10
* CWS - Bear Gulch	778,376	714,256	830,214	606,432	493,780	<b>3,423,058</b>	369,531	337,587	356,236	230,602	<b>1,293,956</b>	314,726	528,351	732,578	<b>1,575,655</b>	6,292,669	12.90
CWS - Mid Peninsula	784,911	710,614	780,961	676,681	586,649	<b>3,539,816</b>	511,543	472,386	486,475	364,702	<b>1,835,106</b>	413,313	540,703	702,750	<b>1,656,766</b>	7,031,688	14.41
* CWS - South SF 2	303,742	334,615	303,085	281,719	300,135	<b>1,523,296</b>	221,591	257,683	267,108	136,050	<b>882,432</b>	198,812	272,111	277,531	<b>748,454</b>	3,154,182	6.46
* Coastside CWD	80,327	113,846	115,099	87,165	85,829	<b>482,266</b>	66,318	79,898	69,022	33,091	<b>248,329</b>	45,788	58,509	90,667	<b>194,964</b>	925,559	1.90
* Daly City 2	129,254	166,089	153,312	145,234	178,584	<b>772,473</b>	152,960	179,415	156,567	138,023	<b>626,965</b>	86,251	107,405	130,741	<b>324,397</b>	1,723,835	3.53
East Palo Alto	58,492	25,894	46,325	70,500	66,597	<b>267,808</b>	61,433	61,380	66,529	49,882	<b>239,224</b>	58,264	81,177	76,847	<b>216,288</b>	723,320	1.48
Estero MID	250,440	212,385	219,590	192,215	158,900	<b>1,033,530</b>	137,795	125,750	125,549	86,166	<b>475,260</b>	105,675	141,866	227,042	<b>474,583</b>	1,983,373	4.06
Guadalupe Valley MID	10,254	12,401	7,283	5,466	5,880	<b>41,284</b>	7,386	9,758	10,944	8,848	<b>36,936</b>	10,015	14,685	18,807	<b>43,507</b>	121,727	0.25
Hayward	847,890	829,110	756,048	710,249	561,230	<b>3,704,527</b>	473,085	573,385	482,460	414,415	<b>1,945,345</b>	456,020	636,690	659,485	<b>1,752,195</b>	7,402,067	15.17
Hillsborough	237,837	211,589	221,435	179,584	146,239	<b>996,684</b>	95,392	80,745	87,568	43,713	<b>307,418</b>	64,351	111,234	179,382	<b>354,967</b>	1,659,069	3.40
Menlo Park	240,851	227,726	245,428	149,572	120,729	<b>984,306</b>	92,056	84,742	97,364	65,928	<b>340,090</b>	90,768	153,735	154,022	<b>398,525</b>	1,722,921	3.53
Mid-Peninsula WD	163,503	146,033	172,265	131,411	116,828	<b>730,040</b>	94,958	100,503	95,443	71,123	<b>362,027</b>	94,131	103,135	133,391	<b>330,657</b>	1,422,724	2.92
Millbrae	125,943	118,721	124,653	103,118	55,512	<b>527,947</b>	54,015	72,278	79,469	59,291	<b>265,053</b>	65,057	79,336	111,237	<b>255,630</b>	1,048,630	2.15
* Milpitas	306,926	332,741	372,490	323,585	313,390	<b>1,654,132</b>	235,598	196,924	213,450	163,833	<b>809,805</b>	173,375	242,575	364,136	<b>780,086</b>	3,244,023	6.65
* Mountain View	456,822	512,820	515,245	394,760	404,210	<b>2,283,857</b>	315,428	266,217	326,660	221,018	<b>1,129,323</b>	250,297	302,505	439,560	<b>992,362</b>	4,405,542	9.03
* North Coast CWD	137,290	176,130	164,860	119,880	99,480	<b>697,640</b>	86,220	109,870	93,840	75,760	<b>365,690</b>	103,440	122,110	130,674	<b>356,224</b>	1,419,554	2.91
Palo Alto	639,619	574,784	654,823	529,977	446,700	<b>2,845,903</b>	346,887	339,471	371,798	251,236	<b>1,309,392</b>	324,996	518,550	521,627	<b>1,365,173</b>	5,520,468	11.31
Purissima Hills WD	126,987	113,778	136,385	97,677	79,441	<b>554,268</b>	49,725	48,502	51,299	31,306	<b>180,832</b>	46,225	83,655	117,120	<b>247,000</b>	982,100	2.01
Redwood City	515,318	456,420	520,994	404,698	364,367	<b>2,261,797</b>	291,050	322,415	283,958	235,438	<b>1,132,861</b>	302,997	331,877	430,315	<b>1,065,189</b>	4,459,847	9.14
* San Bruno 2	83,481	92,014	86,320	71,082	68,166	<b>401,063</b>	56,230	44,614	64,966	55,780	<b>221,590</b>	37,195	52,360	72,289	<b>161,844</b>	784,497	1.61
* San Jose MWS-North	214,785	244,131	249,989	202,785	200,955	<b>1,112,645</b>	165,160	142,191	166,323	135,117	<b>608,791</b>	144,269	171,505	226,670	<b>542,444</b>	2,263,880	4.64
* Santa Clara	78,522	88,699	94,332	79,628	101,931	<b>443,112</b>	84,514	75,181	75,204	76,821	<b>311,720</b>	86,490	89,430	99,256	<b>275,176</b>	1,030,008	2.11
* Stanford University	114,070	103,960	121,656	102,838	85,372	<b>527,896</b>	79,848	61,945	83,544	63,879	<b>289,216</b>	71,221	94,922	121,073	<b>287,216</b>	1,104,328	2.26
* Sunnyvale	383,093	542,396	540,859	420,463	385,285	<b>2,272,096</b>	306,782	227,830	293,406	196,963	<b>1,024,981</b>	214,938	260,100	397,348	<b>872,386</b>	4,169,463	8.54
Westborough WD	37,129	42,527	36,988	46,946	210,158	<b>210,158</b>	35,909	34,423	34,384	24,624	<b>129,340</b>	29,032	32,171	35,962	<b>97,165</b>	436,663	0.89
<b>Totals</b>	<b>7,897,650</b>	<b>7,806,575</b>	<b>8,193,499</b>	<b>6,748,757</b>	<b>5,956,322</b>	<b>36,602,803</b>	<b>4,881,315</b>	<b>5,055,739</b>	<b>5,322,113</b>	<b>3,699,615</b>	<b>18,958,782</b>	<b>4,474,021</b>	<b>6,075,600</b>	<b>6,939,027</b>	<b>17,488,648</b>	<b>73,050,233</b>	<b>149.70</b>
<b>Seasonal Comparisons</b>																	
						<b>Summer/Fall</b>					<b>Winter</b>				<b>Spring</b>		<b>Year</b>
						2003-04					2003-04				2003-04	24,260,946	88,480,745 181.32
						2004-05					2004-05				19,088,208	81,672,866 167.37	
						2005-06					2005-06				17,818,603	80,255,145 164.47	
						2006-07					2006-07				22,498,624	85,779,136 175.79	
						2007-08					2007-08				23,073,285	84,618,323 173.41	
						2008-09					2008-09				19,172,178	80,034,009 164.01	
						2009-10					2009-10				16,469,283	73,920,589 151.49	
						2010-11					2010-11				16,303,549	71,165,207 145.84	
						2011-12					2011-12				16,953,589	70,630,209 144.74	
						2012-13					2012-13				19,027,049	72,190,436 147.94	
						2013-14					2013-14				17,488,648	73,050,233 149.70	
						<b>Since 1983-84</b>					<b>Record Highs:</b>				<b>Record Lows:</b>		
						2003-04					2003-04				2003-04	25,083,000	1986-87 185.31
						1991-92					1983-84				1990-91	13,464,000	1991-92 126.79

<sup>1</sup> Data in this table is derived from SFPUC sales records, and since local agency customer meters are read throughout the month, figures reported here may not match agency purchase numbers shown in other parts of the survey or represent actual monthly use for the month shown (i.e., June figures could include partial May purchases depending on when meters are read).

<sup>2</sup> Beginning in FY 2002-03, these agencies began participating in a conjunctive use study with the SFPUC. Additional surface water supplies are utilized in lieu of groundwater pumping when available. Impacts to the groundwater basin are being monitored. Since FY 2011-12 there have been no supplemental water purchases. See Table 2D.

\* Agency has other sources besides SF RWS.

**Table 2C: Historical SF RWS Wholesale Water Purchases by BAWUA/BAWSCA Agencies\*  
FY 1930-31 to Present**

Year	ccf	mgd	acre feet	% Change	Year	ccf	mgd	acre feet	% Change
1930-31	1,512,700	3.1	3,473		1970-71	64,753,340	132.7	148,653	-4.5
1931-32	1,366,310	2.8	3,137	-9.7	1971-72	69,486,629	142.4	159,519	7.3
1932-33	1,317,513	2.7	3,025	-3.6	1972-73	65,046,121	133.3	149,325	-6.4
1933-34	1,268,717	2.6	2,913	-3.7	1973-74	68,705,880	140.8	157,727	5.6
1934-35	1,171,123	2.4	2,689	-7.7	1974-75	71,145,722	145.8	163,328	3.6
1935-36	1,219,920	2.5	2,801	4.2	1975-76	75,147,059	154.0	172,514	5.6
1936-37	1,659,091	3.4	3,809	36.0	1976-77	65,143,717	133.5	149,549	-13.3
1937-38	2,439,840	5.0	5,601	47.1	1977-78	48,113,636	98.6	110,454	-26.1
1938-39	3,122,995	6.4	7,169	28.0	1978-79	62,899,064	128.9	144,396	30.7
1939-40	4,391,711	9.0	10,082	40.6	1979-80	66,558,824	136.4	152,798	5.8
1940-41	3,562,166	7.3	8,178	-18.9	1980-81	72,463,235	148.5	166,353	8.9
1941-42	3,757,353	7.7	8,626	5.5	1981-82	71,828,877	147.2	164,896	-0.9
1942-43	4,196,524	8.6	9,634	11.7	1982-83	70,950,535	145.4	162,880	-1.2
1943-44	5,562,834	11.4	12,771	32.6	1983-84	79,441,176	162.8	182,372	12.0
1944-45	8,734,625	17.9	20,052	57.0	1984-85	82,759,358	169.6	189,989	4.2
1945-46	8,393,048	17.2	19,268	-3.9	1985-86	83,149,733	170.4	190,886	0.5
1946-47	9,076,203	18.6	20,836	8.1	1986-87	90,176,471	184.8	207,017	8.5
1947-48	9,612,968	19.7	22,068	5.9	1987-88	88,273,396	180.9	202,648	-2.1
1948-49	9,710,561	19.9	22,292	1.0	1988-89	67,241,979	137.8	154,366	-23.8
1949-50	9,564,171	19.6	21,956	-1.5	1989-90	78,221,257	160.3	179,571	16.3
1950-51	11,223,262	23.0	25,765	17.3	1990-91	64,509,358	132.2	148,093	-17.5
1951-52	12,784,759	26.2	29,350	13.9	1991-92	61,191,176	125.4	140,476	-5.1
1952-53	14,590,240	29.9	33,495	14.1	1992-93	64,899,733	133.0	148,989	6.1
1953-54	17,176,470	35.2	39,432	17.7	1993-94	72,707,219	149.0	166,913	12.0
1954-55	21,763,368	44.6	49,962	26.7	1994-95	71,596,604	146.7	164,363	-1.5
1955-56	23,324,866	47.8	53,547	7.2	1995-96	79,502,660	162.9	182,513	11.0
1956-57	25,911,095	53.1	59,484	11.1	1996-97	83,211,705	170.5	191,028	4.7
1957-58	22,690,507	46.5	52,090	-12.4	1997-98	77,305,829	158.4	177,470	-7.1
1958-59	27,814,170	57.0	63,853	22.6	1998-99	82,214,786	168.5	188,739	6.4
1959-60	30,937,165	63.4	71,022	11.2	1999-00	84,647,794	173.5	194,325	3.0
1960-61	32,010,694	65.6	73,486	3.5	2000-01	85,327,533	174.9	195,885	0.8
1961-62	34,255,347	70.2	78,639	7.0	2001-02	83,562,066	171.2	191,832	-2.1
1962-63	38,256,683	78.4	87,825	11.7	2002-03	82,654,243	169.4	189,748	-1.1
1963-64	44,161,095	90.5	101,380	15.4	2003-04	88,480,297	181.3	203,123	7.0
1964-65	47,430,480	97.2	108,885	7.4	2004-05	81,672,866	167.4	187,495	-7.7
1965-66	52,700,533	108.0	120,984	11.1	2005-06	80,255,145	164.5	184,240	-1.7
1966-67	54,652,405	112.0	125,465	3.7	2006-07	85,779,136	175.8	196,922	6.9
1967-68	63,972,592	131.1	146,861	17.1	2007-08	84,618,323	173.4	194,257	-1.4
1968-69	61,630,346	126.3	141,484	-3.7	2008-09	80,034,009	164.0	183,733	-5.4
1969-70	67,778,741	138.9	155,599	10.0	2009-10	73,920,589	151.5	169,698	-7.6
					2010-11	71,165,207	145.8	163,373	-3.7
					2011-12	70,630,209	144.7	162,145	-0.8
					2012-13	72,190,436	147.9	165,726	2.2
					2013-14	73,050,233	149.7	167,700	1.2

\* These totals may differ slightly from other totals found in the survey due to source/rounding variables.

**Note:** The above totals are inclusive of supplemental water purchases. See Table 2D.

**Source:** SFPUC Commercial Division Records

**Table 2D: Supplemental SF RWS Water Purchases by Participating BAWSCA Agencies (in ccf)**

Year	CWS-South San Francisco	Daly City	San Bruno	Total ccf	Total mgd
2002-03	144,508	933,975	459,969	1,538,452	3.15
2003-04	167,334	774,615	482,564	1,424,513	2.92
2004-05	0	1,348,045	674,241	2,022,286	4.14
2005-06	0	1,479,323	0	1,479,323	3.03
2006-07	0	1,160,313	0	1,160,313	2.38
2007-08	0	0	0	0	0.00
2008-09	0	165,750	0	165,750	0.34
2009-10	0	904,856	0	904,856	1.85
2010-11	0	1,061,951	0	1,061,951	2.18
2011-12	0	0	0	0	0.00
2012-13	0	0	0	0	0.00
2013-14	0	0	0	0	0.00

Starting in FY2002-03, Cal Water (South San Francisco), Daly City, and San Bruno participated in a pilot conjunctive use program whereby surplus SF RWS water was purchased (at a reduced rate) in lieu of pumping that same amount of water from the groundwater basin. Daly City has continued with the program on a longer term basis.

This program increases storage levels in the groundwater basin during times surplus water is available thereby making groundwater available to the regional system during dry periods when SF RWS water may be in short supply. As shown above, in FY 2007-08 and FY 2008-09 Daly City made little or no supplemental purchases; indicative of relatively dry years. Daly City's supplemental purchases increased in FY 2010-11; indicative of a wetter year. No supplemental purchases were made in FY 2011-12, FY 2012-13, or FY 2013-14 due to dry conditions.

**Source:** BAWSCA FY 2013-14 Annual Survey



### 3. Total Water Supply and Demand

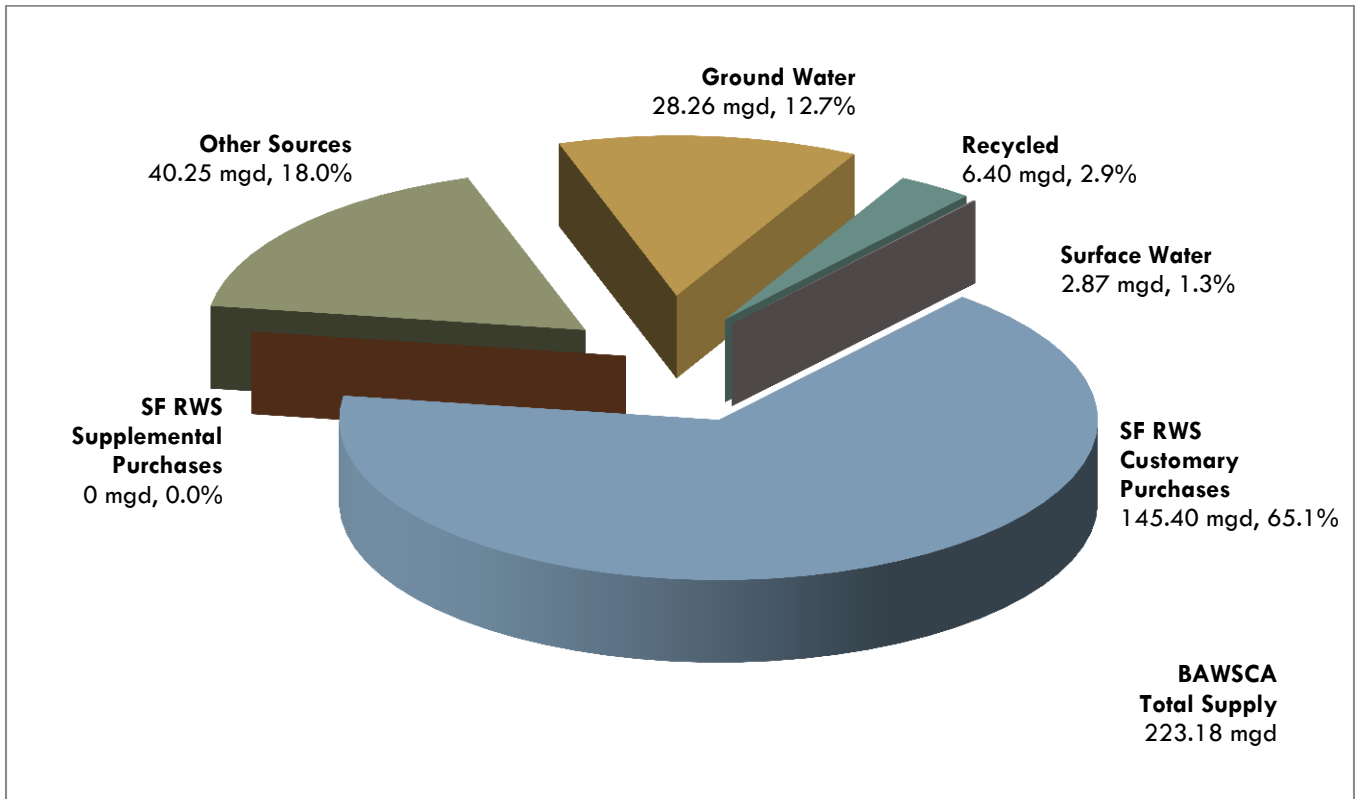




**Table 3B: Historical Total Water Use among BAWUA/BAWSCA Agencies\***

1975-76 to Present				
Year	ccf	mgd	acre feet	% Change
1975-76	103,703,209	212.5	238,070	
1976-77	78,114,973	160.1	179,327	-24.7
1977-78	80,544,118	165.1	184,904	3.1
1978-79	90,148,396	184.7	206,952	11.9
1979-80	96,016,043	196.8	220,423	6.5
1980-81	101,655,080	208.3	233,368	5.9
1981-82	101,114,973	207.2	232,128	-0.5
1982-83	102,072,193	209.2	234,326	0.9
1983-84	114,223,262	234.1	262,221	11.9
1984-85	113,288,770	232.2	260,075	-0.8
1985-86	120,854,314	247.7	277,443	6.7
1986-87	127,159,730	260.6	291,919	5.2
1987-88	124,103,553	254.3	284,903	-2.4
1988-89	106,443,629	218.1	244,361	-14.2
1989-90	109,228,602	223.8	250,754	2.6
1990-91	99,723,401	204.4	228,933	-8.7
1991-92	96,016,663	196.8	220,424	-3.7
1992-93	99,696,012	204.3	228,871	3.8
1993-94	110,889,985	227.2	254,568	11.2
1994-95	107,889,859	221.1	247,681	-2.7
1995-96	119,077,619	244.0	273,365	10.4
1996-97	126,956,796	260.2	291,453	6.6
1997-98	118,081,751	242.0	271,078	-7.0
1998-99	124,630,030	255.4	286,111	5.5
1999-00	128,677,573	263.7	295,403	3.2
2000-01	128,905,099	264.2	295,925	0.2
2001-02	124,144,929	254.4	284,998	-3.7
2002-03	120,903,117	247.8	277,555	-2.6
2003-04	127,998,331	262.3	293,844	5.9
2004-05	117,674,592	241.2	270,144	-8.1
2005-06	118,364,630	242.6	271,728	0.6
2006-07	124,199,560	254.5	285,123	4.9
2007-08	125,436,068	257.1	287,962	1.0
2008-09	117,909,838	241.6	270,684	-6.0
2009-10	108,291,581	221.9	248,603	-8.2
2010-11	107,799,083	220.9	247,473	-0.5
2011-12	108,903,828	223.2	250,009	1.0
2012-13	109,831,797	225.1	252,139	0.9
2013-14	109,276,050	223.9	250,863	-0.5
*Inclusive of unaccounted for water; excludes supplemental purchases (see Table 2D).				
<b>Source:</b> BAWUA/BAWSCA Annual Surveys				

Figure 3C: Water Use by Source of Supply – FY 2013-14





**Table 3C: Water Use by Source of Supply – FY 2013-14 (in ccf)**

Member	SF RWS Purchases			Local Sources (non-SF RWS)				Other Sources				Totals		
	Customary	Supplemental	% of Supply	Ground Water	% of Supply	Surface Water	% of Supply	Recycled Water	% of Supply	Other Sources	% of Supply	Total Supply	mgd Equiv	% of Total
<b>San Mateo County</b>														
Brisbane / GVMID	302,776	0	100.0%	0	0%	0	0%	0	0%	0	0.0%	302,776	0.62	0.28%
Burlingame	2,001,619	0	93.2%	0	0%	0	0%	146,400	7%	0	0%	2,148,019	4.40	1.97%
CWS - Bear Gulch	6,259,793	0	100.0%	0	0%	0	0.0%	0	0%	0	0.0%	6,259,793	12.83	5.73%
CWS - Mid Peninsula	6,956,723	0	100.0%	0	0%	0	0.0%	0	0%	0	0%	6,956,723	14.26	6.37%
CWS - South SF	3,144,748	0	87.0%	471,510	13.0%	0	0%	0	0%	0	0%	3,616,258	7.41	3.31%
Coastside CWD	940,214	0	94.3%	2,674	0.3%	54,372	5.5%	0	0%	0	0.0%	997,259	2.04	0.91%
Daly City	1,713,514 *	0	51.2%	1,494,788	44.6%	0	0%	141,131	4.2%	0	0.00%	3,349,433	6.86	3.07%
East Palo Alto	719,040 **	0	99.9%	1,000	0.14%	0	0%	0	0%	0	0%	720,040	1.48	0.66%
Estero MID	1,942,333	0	100.0%	0	0%	0	0%	0	0%	0	0%	1,942,333	3.98	1.78%
Hillsborough	1,599,812	0	100.0%	0	0%	0	0%	0	0%	0	0%	1,599,812	3.28	1.46%
Menlo Park	1,729,399	0	100.0%	0	0%	0	0%	0	0%	0	0.0%	1,729,399	3.54	1.58%
Mid-Peninsula WD	1,408,109	0	100.0%	0	0%	0	0%	0	0%	0	0%	1,408,109	2.89	1.29%
Millbrae	1,134,741	0	99.0%	0	0%	0	0%	12,000	1%	0	0%	1,146,741	2.35	1.05%
North Coast CWD	1,387,578	0	99.6%	0	0%	0	0%	5,294	0%	0	0%	1,392,872	2.85	1.27%
Redwood City	4,407,672	0	93.2%	0	0%	0	0%	323,213	6.8%	0	0%	4,730,885	9.70	4.33%
San Bruno	779,582	0	44.6%	948,253	54.3%	0	0%	0	0%	19,887	1.1% †	1,747,722	3.58	1.60%
Westborough WD	433,980	0	100.0%	0	0%	0	0%	0	0%	0	0%	433,980	0.89	0.40%
<b>Subtotal</b>	<b>36,861,633</b>	<b>0</b>	<b>91.1%</b>	<b>2,918,225</b>	<b>7.2%</b>	<b>54,372</b>	<b>0.1%</b>	<b>628,038</b>	<b>1.55%</b>	<b>19,887</b>	<b>0.0%</b>	<b>40,482,154</b>	<b>82.96</b>	<b>37.05%</b>
<b>mgd equiv</b>	<b>75.54</b>	<b>0.00</b>		<b>5.98</b>		<b>0.11</b>		<b>1.29</b>		<b>0.04</b>		<b>82.96</b>		
<b>Santa Clara County</b>														
Milpitas	3,194,000	0	65.1%	0	0%	0	0%	379,000	7.7%	1,335,500	27.2%	4,908,500	10.06	4.49%
Mountain View	4,373,263	0	83.1%	209,370	4.0%	0	0%	151,603	3%	529,137	10.1%	5,263,373	10.79	4.82%
Palo Alto	5,600,519	0	93.6%	0	0%	0	0%	381,066	6.4%	0	0%	5,981,585	12.26	5.47%
Purissima Hills WD	982,100	0	100.0%	0	0%	0	0%	0	0%	0	0%	982,100	2.01	0.90%
San Jose	2,272,262	0	84.9%	0	0.0%	0	0%	404,401	15.1%	0	0%	2,676,663	5.49	2.45%
Santa Clara	1,012,567	0	9.4%	6,287,164	58.4%	0	0%	1,587,740	14.8%	1,870,035	17.4%	10,757,505	22.05	9.84%
Stanford	1,024,277	0	65.9%	497,660	32.0%	31,335	2.0%	0	0%	0	0%	1,553,272	3.18	1.42%
Sunnyvale	4,046,527	0	45.0%	452,589	5.0%	0	0%	0	0.0%	4,495,704	50.0%	8,994,820	18.43	8.23%
<b>Subtotal</b>	<b>22,505,515</b>	<b>0</b>	<b>54.7%</b>	<b>7,446,783</b>	<b>18.1%</b>	<b>31,335</b>	<b>0.1%</b>	<b>2,903,810</b>	<b>7.1%</b>	<b>8,230,376</b>	<b>20.0%</b>	<b>41,117,818</b>	<b>84.26</b>	<b>37.63%</b>
<b>mgd equiv</b>	<b>46.12</b>	<b>0.00</b>		<b>15.26</b>		<b>0.06</b>		<b>5.95</b>		<b>16.87</b>		<b>84.26</b>		
<b>Alameda County</b>														
Alameda CWD	5,684,760	0	28.0%	3,625,801	17.9%	29,621	0.1%	0	0%	10,933,829	53.9%	20,274,011	41.55	18.6%
Hayward	7,402,067	0	100.0%	0	0%	0	0%	0	0%	0	0.0%	7,402,067	15.17	6.8%
<b>Subtotal</b>	<b>13,086,827</b>	<b>0</b>	<b>47.3%</b>	<b>3,625,801</b>	<b>13.1%</b>	<b>29,621</b>	<b>0.1%</b>	<b>0</b>	<b>0%</b>	<b>10,933,829</b>	<b>39.5%</b>	<b>27,676,078</b>	<b>56.72</b>	<b>25.33%</b>
<b>mgd equiv</b>	<b>26.82</b>	<b>0.00</b>		<b>7.43</b>		<b>0.06</b>				<b>22.41</b>		<b>56.72</b>		
<b>Total</b>	<b>72,453,975</b>	<b>0</b>	<b>66.3%</b>	<b>13,990,808</b>	<b>12.8%</b>	<b>115,328</b>	<b>0.1%</b>	<b>3,531,848</b>	<b>3.2%</b>	<b>19,184,092</b>	<b>17.6%</b>	<b>109,276,050</b>	<b>223.94</b>	<b>100.0%</b>
<b>mgd equiv</b>	<b>148.48</b>	<b>0.00</b>		<b>28.67</b>		<b>0.24</b>		<b>7.24</b>		<b>39.31</b>		<b>223.94</b>		
*The total recycled water noted here is the portion that actually replaces a potable supply.											† Purchase of SF RWS supply from NCCWD.			
**Excludes SF RWS water conveyed to Menlo Park (4,280)														
Source: BAWSCA FY 2013-14 Annual Survey														

**Table 3D-1: Demand Projections by Source (in mgd)****Purchases from SF RWS**

<b>Member</b>	<b>FY 2015-16</b>	<b>FY 2020-21</b>	<b>FY 2025-26</b>	<b>FY 2030-31</b>	<b>FY 2035-36</b>	<b>FY 2040-41</b>
<b>San Mateo County</b>						
Brisbane / GVMID	0.63	0.78	0.95	0.94	0.94	0.94
Burlingame	4.75	4.88	4.94	5.03	5.13	5.34
CWS - Bear Gulch	11.26	12.48	12.55	12.66	12.90	13.18
CWS - Mid-Peninsula	13.85	14.11	14.13	14.20	14.41	14.69
CWS - South SF	5.96	6.36	6.40	6.47	6.63	6.82
<b>CWS Total</b>	<b>31.07</b>	<b>32.94</b>	<b>33.07</b>	<b>33.34</b>	<b>33.94</b>	<b>34.68</b>
Coastside CWD	1.76	1.70	1.73	1.77	2.03	2.03
Daly City	2.88	2.93	2.89	2.83	2.82	2.91
East Palo Alto	1.83	1.96	1.96	1.96	1.96	1.96
Estero MID	4.00	4.06	4.02	3.99	4.00	4.01
Hillsborough	3.07	3.09	3.05	3.02	3.00	2.99
Menlo Park	3.13	3.35	3.29	3.24	3.22	3.23
Mid-Peninsula WD	3.04	3.18	3.22	3.23	3.27	3.30
Millbrae	2.36	2.56	2.63	2.71	2.82	2.93
North Coast CWD	2.99	3.04	3.03	3.01	2.99	2.98
Redwood City	8.94	8.94	8.26	7.72	7.83	7.98
San Bruno	2.06	2.38	2.69	3.03	3.25	3.25
Westborough WD	0.83	0.81	0.79	0.77	0.76	0.74
<b>Subtotal</b>	<b>73.34</b>	<b>76.60</b>	<b>76.52</b>	<b>76.59</b>	<b>77.96</b>	<b>79.27</b>
<b>Santa Clara County</b>						
Milpitas	7.07	7.69	8.25	8.80	8.80	8.80
Mountain View	8.93	8.93	8.93	8.93	8.97	9.34
Palo Alto	11.73	13.18	12.84	13.32	13.90	14.52
Purissima Hills WD	1.82	1.78	1.75	1.72	1.71	1.71
San Jose	4.50	4.50	4.50	4.50	4.50	4.50
Santa Clara	4.50	4.50	4.50	4.50	4.50	4.50
Stanford	2.10	2.10	2.20	2.40	2.70	3.00
Sunnyvale	8.93	8.93	8.93	8.93	8.93	8.93
<b>Subtotal</b>	<b>49.58</b>	<b>51.61</b>	<b>51.90</b>	<b>53.10</b>	<b>54.01</b>	<b>55.30</b>
<b>Alameda County</b>						
Alameda CWD	7.68	7.68	7.68	7.68	7.68	7.68
Hayward	17.48	21.52	22.80	23.58	24.18	25.38
<b>Subtotal</b>	<b>25.16</b>	<b>29.20</b>	<b>30.48</b>	<b>31.26</b>	<b>31.86</b>	<b>33.06</b>
<b>Total</b>	<b>148.08</b>	<b>157.41</b>	<b>158.90</b>	<b>160.95</b>	<b>163.83</b>	<b>167.63</b>
<b>Total w/o SJ &amp; SC</b>	<b>139.08</b>	<b>148.41</b>	<b>149.90</b>	<b>151.95</b>	<b>154.83</b>	<b>158.63</b>
<b>Source: BAWSCA FY 2013-14 Annual Survey</b>						



**Table 3D-2: Demand Projections by Source (in mgd)**

**Groundwater Production**

Member	FY 2015-16	FY 2020-21	FY 2025-26	FY 2030-31	FY 2035-36	FY 2040-41
<b>San Mateo County</b>						
CWS - South SF	1.37	1.37	1.37	1.37	1.37	1.37
Coastside CWD	0.11	0.11	0.11	0.11	0.11	0.11
Daly City	3.43	3.43	3.43	3.43	3.43	3.43
San Bruno	1.50	1.50	1.50	1.50	1.50	1.50
<b>Subtotal</b>	<b>6.41</b>	<b>6.41</b>	<b>6.41</b>	<b>6.41</b>	<b>6.41</b>	<b>6.41</b>
<b>Santa Clara County</b>						
Mountain View	0.23	0.23	0.24	0.25	0.26	0.26
San Jose	1.91	2.73	3.39	4.10	4.95	4.95
Santa Clara	9.49	9.70	9.71	9.76	10.13	10.45
Sunnyvale	0.14	0.41	0.35	0.30	0.30	0.30
<b>Subtotal</b>	<b>11.77</b>	<b>13.07</b>	<b>13.69</b>	<b>14.41</b>	<b>15.64</b>	<b>15.96</b>
<b>Alameda County</b>						
Alameda CWD	7.68	7.68	7.68	7.92	8.75	8.63
<b>Total</b>	<b>25.86</b>	<b>27.16</b>	<b>27.78</b>	<b>28.74</b>	<b>30.80</b>	<b>31.00</b>
<i>Source: BAWSCA FY 2013-14 Annual Survey</i>						

**Table 3D-3: Demand Projections by Source (in mgd)**

**Surface Water Production**

Member	FY 2015-16	FY 2020-21	FY 2025-26	FY 2030-31	FY 2035-36	FY 2040-41
<b>San Mateo County</b>						
CWS - Bear Gulch 1	1.13	1.13	1.13	1.13	1.13	1.13
Coastside CWD 2	0.68	0.68	0.68	0.68	0.68	0.68
<b>Subtotal</b>	<b>1.81</b>	<b>1.81</b>	<b>1.81</b>	<b>1.81</b>	<b>1.81</b>	<b>1.81</b>
<b>Santa Clara County</b>						
Stanford 3	0.00	0.00	0.00	0.00	0.00	0.00
<b>Alameda County</b>						
Alameda CWD 4	6.33	6.33	6.33	6.33	6.33	6.33
<b>Total</b>	<b>8.14</b>	<b>8.14</b>	<b>8.14</b>	<b>8.14</b>	<b>8.14</b>	<b>8.14</b>
1 Bear Gulch						
2 Pilarcitos/Crystal Springs						
3 Stanford Lake (irrigation only)						
4 Del Valle Reservoir						
<i>Source: BAWSCA FY 2013-14 Annual Survey</i>						

**Table 3D-4: Demand Projections by Source (in mgd)**

**Recycled Water**

Member	FY 2015-16	FY 2020-21	FY 2025-26	FY 2030-31	FY 2035-36	FY 2040-41
<b>San Mateo County</b>						
Burlingame	0.00	0.00	0.00	0.00	0.00	0.00
Daly City	0.06	0.06	0.06	0.06	0.06	0.06
Millbrae	0.01	0.03	0.03	0.03	0.03	0.03
North Coast CWD	0.04	0.04	0.04	0.04	0.04	0.04
Redwood City	0.88	1.14	1.30	1.44	1.44	1.44
<b>Subtotal</b>	<b>0.99</b>	<b>1.27</b>	<b>1.43</b>	<b>1.57</b>	<b>1.57</b>	
<b>Santa Clara County</b>						
Milpitas	0.99	1.19	1.38	1.57	1.77	1.77
Mountain View	0.18	0.41	0.61	1.15	1.44	1.44
Palo Alto	0.50	0.50	0.50	0.50	0.50	0.50
San Jose	1.10	1.36	1.66	2.01	2.33	2.33
Santa Clara	3.20	3.30	3.40	3.50	3.50	3.60
Sunnyvale	0.30	1.30	1.40	1.50	1.50	1.50
<b>Subtotal</b>	<b>6.27</b>	<b>8.06</b>	<b>8.95</b>	<b>10.23</b>	<b>11.04</b>	
<b>Alameda County</b>						
Hayward	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>7.26</b>	<b>9.33</b>	<b>10.38</b>	<b>11.80</b>	<b>12.61</b>	
<i>Source: BAWSCA FY 2013-14 Annual Survey</i>						

**Table 3D-5: Demand Projections by Source (in mgd)**

**Other Sources**

Member	FY 2015-16	FY 2020-21	FY 2025-26	FY 2030-31	FY 2035-36	FY 2040-41
<b>Santa Clara County</b>						
Milpitas 1	2.21	2.19	1.09	0.66	0.94	1.47
Mountain View 1	1.18	1.18	1.18	1.18	1.18	1.18
Santa Clara 1	4.10	4.08	4.08	4.08	4.08	4.1
Sunnyvale 1	8.54	8.93	9.84	11.36	11.36	11.36
<b>Subtotal</b>	<b>16.03</b>	<b>16.38</b>	<b>16.19</b>	<b>17.28</b>	<b>17.56</b>	<b>18.11</b>
<b>Alameda County</b>						
Alameda CWD 2	22.89	23.92	25.17	26.77	26.77	26.77
<b>Total</b>	<b>38.92</b>	<b>40.30</b>	<b>41.36</b>	<b>44.05</b>	<b>44.33</b>	<b>44.88</b>
1 Purchases from SCVWD						
2 Purchases from State Water Project and desalination						
<i>Source: BAWSCA FY 2013-14 Annual Survey</i>						

## 4. Current Water Use by Customer Class



Figure 4A: Water Use by Customer Class – FY 2013-14

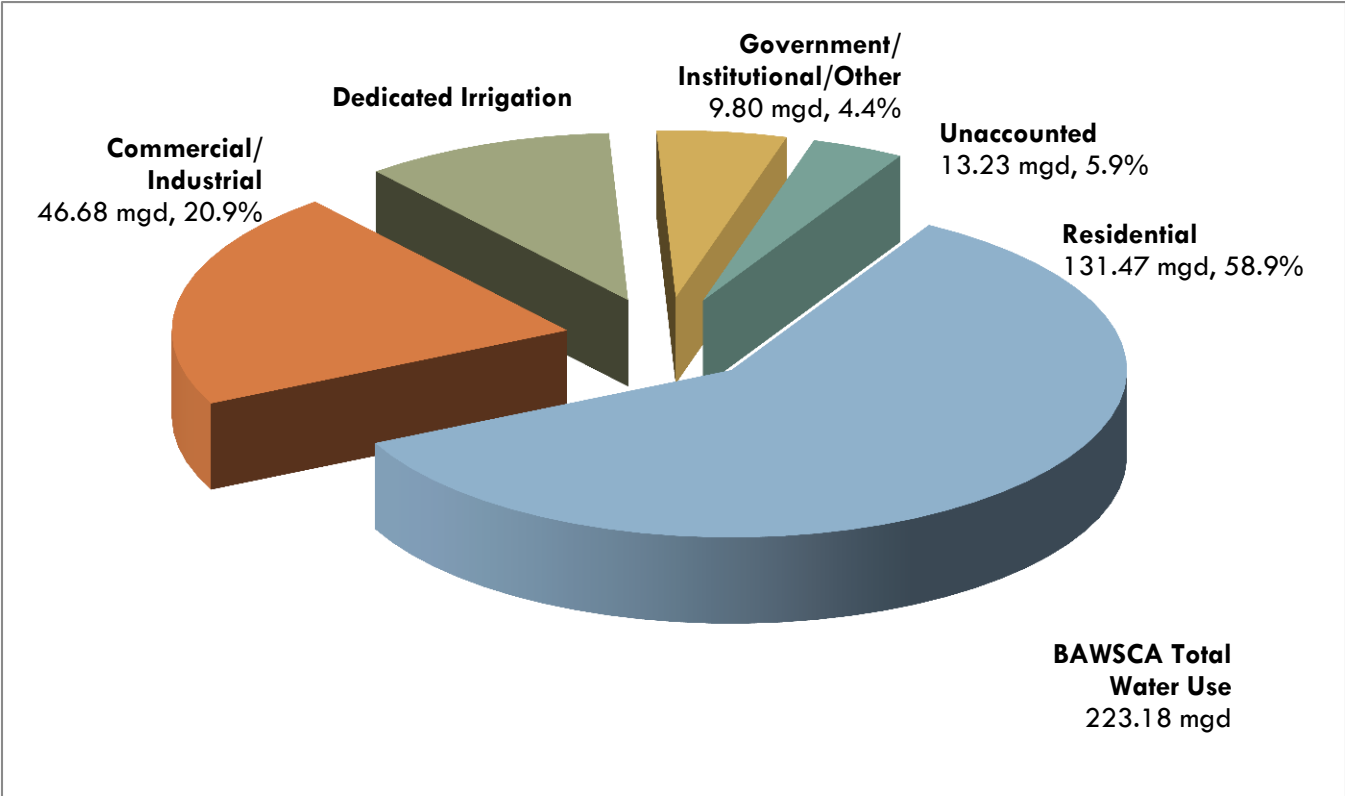
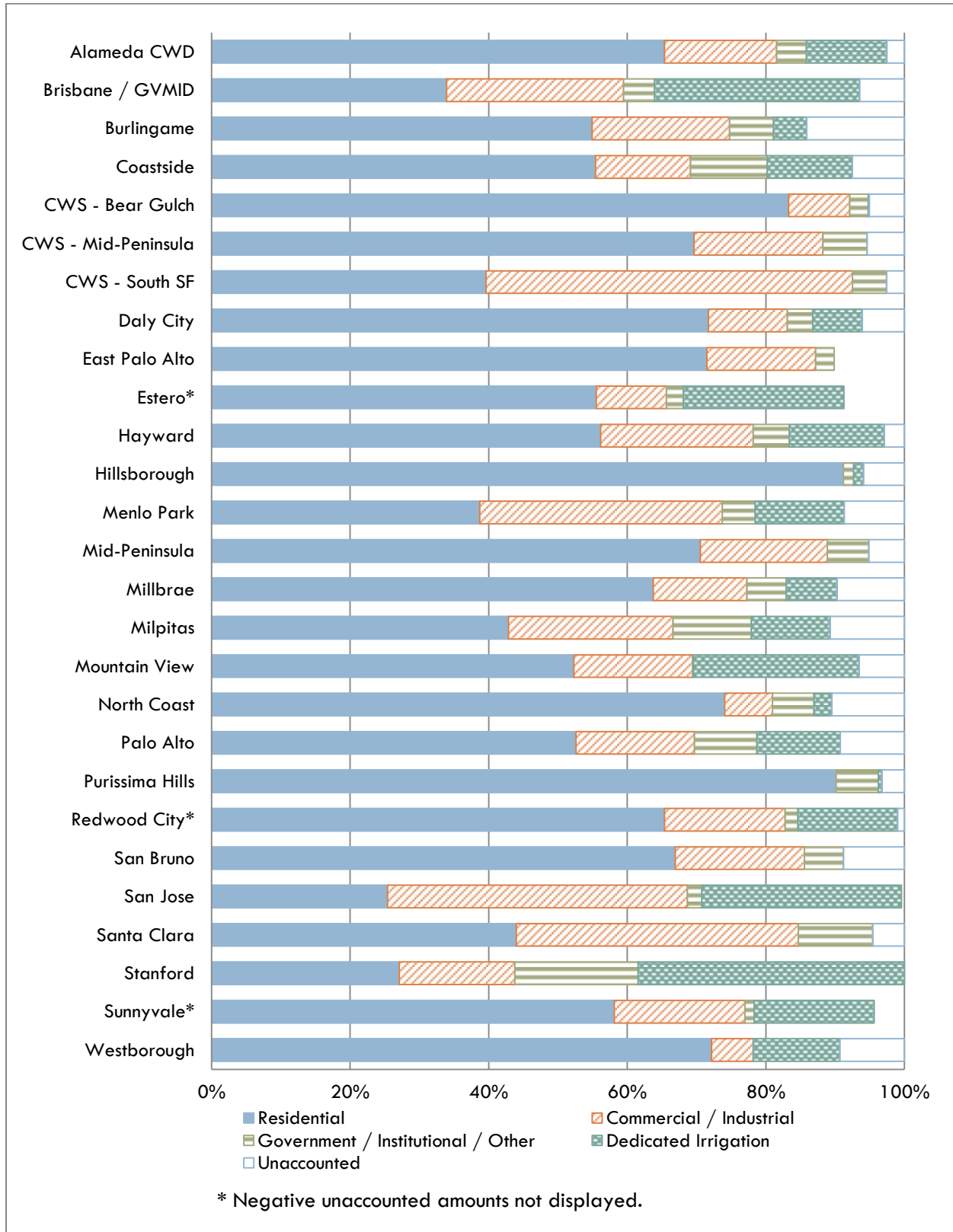


Figure 4B: Water Use by Sector for BAWSCA Agencies – FY 2013-14



**Table 4A: Water Use by Customer Class – FY 2013-14 (in ccf)**

Member	Residential			Non-Residential					Dedicated Irrigation†	Unaccounted	Total Consumption	
	Single Family	Multiple Family	Subtotal	Commercial	Industrial	Comm'l/Ind'l Subtotal	Gov't/Instit'l/Other	Subtotal			mgd	mgd
<b>San Mateo County</b>												
Brisbane / GVMID	84,810	17,885	102,695	77,363	0	77,363	13,488	90,851	89,577	19,653	302,776	0.62
Burlingame	836,205	343,447	1,179,652	156,200	270,410	426,610	135,455	562,065	103,322	302,980	2,148,019	4.40
CWS - Bear Gulch	5,113,049	100,215	5,213,264	551,588	1,948	553,536	166,553	720,089	9,578	316,862	6,259,793	12.83
CWS - Mid-Peninsula	3,957,707	886,190	4,843,897	1,272,323	22,863	1,295,186	442,095	1,737,281	0	375,545	6,956,723	14.26
CWS - South SF	1,273,186	159,053	1,432,239	1,571,735	341,126	1,912,861	178,111	2,090,972	0	93,047	3,616,258	7.41
Coastside CWD	507,226	45,346	552,572	136,934	0	136,934	110,274	247,208	122,219	75,260	997,259	2.04
Daly City	1,674,262	727,144	2,401,406	381,920	35	381,955	123,297	505,252	238,144	204,631	3,349,433	6.86
East Palo Alto*	645,589	0	645,589	126,995	14,487	141,482	24,366	165,848	0	-91,397	720,040	1.48
Estero MID	599,372	707,478	1,306,850	210,293	28,050	238,343	56,839	295,182	545,676	-205,375	1,942,333	3.98
Hillsborough	1,459,092	0	1,459,092	0	0	0	23,485	23,485	22,319	94,916	1,599,812	3.28
Menlo Park	517,640	151,865	669,505	299,597	305,787	605,384	82,272	687,656	221,816	150,422	1,729,399	3.54
Mid-Peninsula WD	779,127	214,216	993,343	218,774	39,398	258,172	83,953	342,125	0	72,641	1,408,109	2.89
Millbrae	554,519	176,664	731,183	154,759	0	154,759	65,130	219,889	84,344	111,325	1,146,741	2.35
North Coast CWD	844,942	186,750	1,031,692	96,158	0	96,158	82,973	179,131	35,833	146,216	1,392,872	2.85
Redwood City	2,286,478	805,641	3,092,119	814,853	9,380	824,233	86,470	910,703	681,737	46,326	4,730,885	9.70
San Bruno*	1,169,527	0	1,169,527	325,988	0	325,988	98,441	424,429	0	153,766	1,747,722	3.58
Westborough*	272,196	40,952	313,148	26,092	0	26,092	0	26,092	54,316	40,424	433,980	0.89
<b>Subtotal</b>	<b>22,574,927</b>	<b>4,562,846</b>	<b>27,137,773</b>	<b>6,421,572</b>	<b>1,033,484</b>	<b>7,455,056</b>	<b>1,773,202</b>	<b>9,228,258</b>	<b>2,208,881</b>	<b>1,907,242</b>	<b>40,482,154</b>	<b>82.96</b>
<b>mgd equiv</b>	<b>46.26</b>	<b>9.35</b>	<b>55.61</b>	<b>13.16</b>	<b>2.12</b>	<b>15.28</b>	<b>3.63</b>	<b>18.91</b>	<b>4.53</b>	<b>3.91</b>	<b>82.96</b>	
<b>Santa Clara County</b>												
Milpitas	1,448,879	654,634	2,103,513	575,874	590,426	1,166,300	553,095	1,719,395	558,749	526,843	4,908,500	10.06
Mountain View	1,327,492	1,425,287	2,752,779	679,114	222,740	901,854	7,445	909,299	1,256,417	344,878	5,263,373	10.79
Palo Alto	2,417,094	729,637	3,146,731	834,575	188,787	1,023,362	538,971	1,562,333	718,281	554,240	5,981,585	12.26
Purissima Hills WD	885,184	0	885,184	0	0	0	59,871	59,871	5,339	31,706	982,100	2.01
San Jose	119,034	567,577	686,611	150,480	1,017,978	1,168,458	56,133	1,224,591	777,405	-11,944	2,676,663	5.49
Santa Clara	2,531,952	2,198,913	4,730,865	3,061,555	1,316,360	4,377,915	1,156,381	5,534,296	0	492,344	10,757,505	22.05
Stanford	204,466	216,594	421,060	0	259,044	259,044	276,377	535,421	596,791	0	1,553,272	3.18
Sunnyvale	3,229,138	2,500,330	5,729,468	1,859,237	0	1,859,237	132,172	1,991,409	1,705,099	-431,156	8,994,820	18.43
<b>Subtotal</b>	<b>12,163,239</b>	<b>8,292,972</b>	<b>20,456,211</b>	<b>7,160,835</b>	<b>3,595,335</b>	<b>10,756,170</b>	<b>2,780,445</b>	<b>13,536,615</b>	<b>5,618,081</b>	<b>1,506,911</b>	<b>41,117,818</b>	<b>84.26</b>
<b>mgd equiv</b>	<b>24.93</b>	<b>16.99</b>	<b>41.92</b>	<b>14.67</b>	<b>7.37</b>	<b>22.04</b>	<b>5.70</b>	<b>27.74</b>	<b>11.51</b>	<b>3.09</b>	<b>84.26</b>	
<b>Alameda County</b>												
Alameda CWD	9,634,024	3,616,714	13,250,738	2,257,349	1,025,512	3,282,861	873,524	4,156,385	2,354,869	512,019	20,274,011	41.55
Hayward	2,697,099	1,460,015	4,157,114	576,983	1,053,995	1,630,978	383,686	2,014,664	1,012,601	217,688	7,402,067	15.17
<b>Subtotal</b>	<b>12,331,123</b>	<b>5,076,729</b>	<b>17,407,852</b>	<b>2,834,332</b>	<b>2,079,507</b>	<b>4,913,839</b>	<b>1,257,210</b>	<b>6,171,049</b>	<b>3,367,470</b>	<b>729,707</b>	<b>27,676,078</b>	<b>56.72</b>
<b>mgd equiv</b>	<b>25.27</b>	<b>10.40</b>	<b>35.67</b>	<b>5.81</b>	<b>4.26</b>	<b>10.07</b>	<b>2.58</b>	<b>12.65</b>	<b>6.90</b>	<b>1.50</b>	<b>56.72</b>	
<b>Total</b>	<b>47,069,289</b>	<b>17,932,547</b>	<b>65,001,836</b>	<b>16,416,739</b>	<b>6,708,326</b>	<b>23,125,065</b>	<b>5,810,857</b>	<b>28,935,922</b>	<b>11,194,432</b>	<b>4,143,860</b>	<b>109,276,050</b>	<b>223.94</b>
<b>mgd equiv</b>	<b>96.46</b>	<b>36.75</b>	<b>133.21</b>	<b>33.64</b>	<b>13.75</b>	<b>47.39</b>	<b>11.91</b>	<b>59.30</b>	<b>22.94</b>	<b>8.49</b>	<b>223.94</b>	
* Single family amount includes multi-family			† Dedicated Irrigation refers to separately metered irrigation usage									
Source: BAWSCA FY 2013-14 Annual Survey												

Table 4B: Number of Customer Accounts – FY 2013-14

Member	Residential			Commercial	Industrial	Ind/Comm Subtotal	Non-Residential		Dedicated Irrigation†	Total
	Single Family*	Multiple Family	Res Subtotal				Gov't, Other	Non-Res Subtotal		
<b>San Mateo County</b>										
Brisbane / GVMID	1,482	117	1,599	279	0	279	0	279	86	1,964
Burlingame	6,839	738	7,577	502	263	765	604	1,369	191	9,137
CWS - Bear Gulch	16,909	85	16,994	1,351	1	1,352	151	1,503	8	18,505
CWS - Mid-Peninsula	31,193	668	31,861	3,382	94	3,476	343	3,819	0	35,680
CWS - SSF	13,932	160	14,092	1,903	60	1,963	223	2,186	0	16,278
Coastside CWD	6,236	127	6,363	1,387	0	1,387	83	1,470	66	7,899
Daly City	18,623	2,833	21,456	680	2	682	103	785	251	22,492
East Palo Alto	3,443	66	3,509	258	20	278	47	325	133	3,967
Estero MID	4,536	2,587	7,123	177	58	235	236	471	522	8,116
Hillsborough	4,181	0	4,181	0	0	0	28	28	58	4,267
Menlo Park	3,390	210	3,600	163	251	414	55	469	131	4,200
Mid-Peninsula WD	7,135	204	7,339	477	52	529	97	626	0	7,965
Millbrae	5,753	268	6,021	301	0	301	146	447	83	6,551
North Coast CWD	11,132	303	11,435	315	0	315	530	845	81	12,361
Redwood City	19,047	1,666	20,713	1,527	17	1,544	778	2,322	413	23,448
San Bruno	9,631	999	10,630	584	3	587	129	716	128	11,474
Westborough WD	3,721	14	3,735	49	0	49	0	49	89	3,873
<b>Subtotal</b>	167,183	11,045	178,228	13,335	821	14,156	3,553	17,709	2,240	198,177
<b>Santa Clara County</b>										
Milpitas	12,423	1,869	14,292	595	333	928	826	1,754	591	16,637
Mountain View	12,209	2,479	14,688	1,445	602	2,047	23	2,070	1,023	17,781
Palo Alto	15,248	1,942	17,190	1,437	100	1,537	949	2,486	360	20,036
Purissima Hills WD	2,068	0	2,068	0	0	0	106	106	10	2,184
San Jose	1,141	188	1,329	122	250	372	56	428	343	2,100
Santa Clara	17,152	4,860	22,012	2,610	395	3,005	512	3,517	0	25,529
Stanford				Not Applicable						
Sunnyvale	23,662	1,761	25,423	2,781	0	2,781	168	2,949	838	29,210
<b>Subtotal</b>	83,903	13,099	97,002	8,990	1,680	10,670	2,640	13,310	3,165	113,477
<b>Alameda County</b>										
Alameda CWD	72,061	2,431	74,492	3,816	1,182	4,998	966	5,964	2,331	82,787
Hayward	27,932	1,226	29,158	1,575	1,171	2,746	234	2,980	1,312	33,450
<b>Subtotal</b>	99,993	3,657	103,650	5,391	2,353	7,744	1,200	8,944	3,643	116,237
<b>Total</b>	351,079	27,801	378,880	27,716	4,854	32,570	7,393	39,963	9,048	427,891
*Individually metered homes, townhouses, and condos				† Dedicated Irrigation refers to separately metered irrigation usage						
<b>Source: BAWSCA FY 2013-14 Annual Survey</b>										



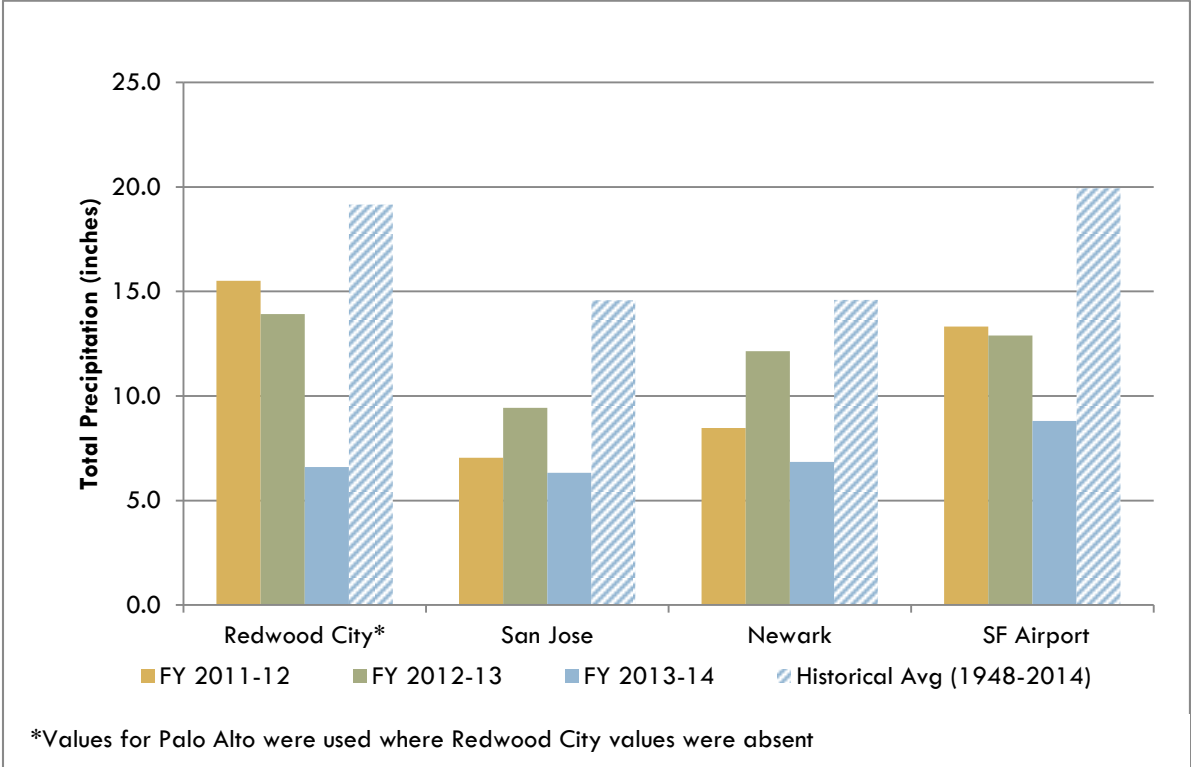
# 5. Climatological Data



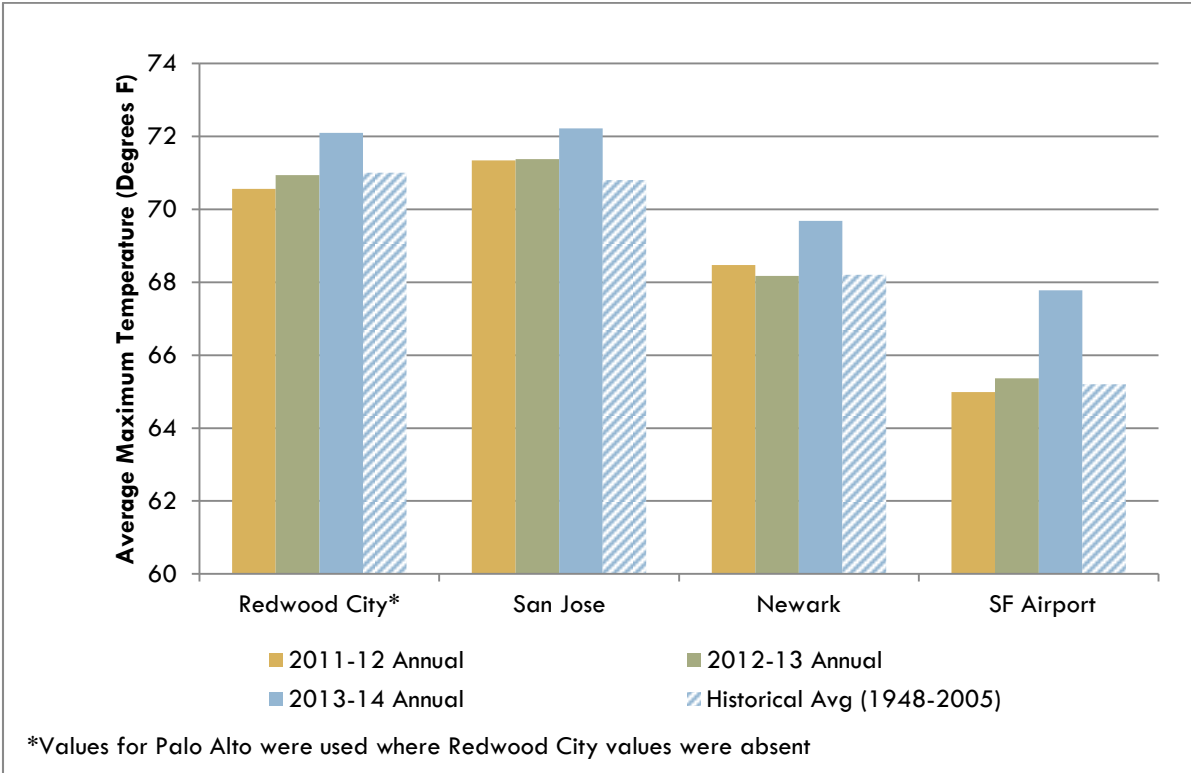
Table 5A: Climatological Data

<b>Rainfall</b>					
<b>Precipitation (Inches)</b>					
	<b>Redwood City*</b>	<b>San Jose</b>	<b>Newark</b>	<b>SF Airport</b>	
<b>Historical Avg (1948-2014)</b>					
	19.2	14.6	14.6	19.9	
<b>Recent Past</b>					
FY 2009-10	21.5	17.2	15.8	21.4	
FY 2010-11	19.4	15.6	15.3	22.9	
FY 2011-12	15.5	7.1	8.5	13.3	
FY 2012-13	13.9	9.4	12.2	12.9	
FY 2013-14	6.6	6.3	6.9	8.8	
<b>FY 2013-14 Deviation from Historical Avg</b>					
	-12.6	-8.3	-7.8	-11.1	
<b>Temperature</b>					
<b>Average Maximum Temperature (Degrees F)</b>					
	<b>Redwood City*</b>	<b>San Jose</b>	<b>Newark</b>	<b>SF Airport</b>	
<b>Historical Avg (1948-2005)</b>					
Annual	71.0	70.8	68.2	65.2	
Summer**	81.5	81.2	77.0	72.3	
<b>Recent Past</b>					
2009-10 Annual	68.8	69.7	67.9	65.2	
Summer**	81.1	81.7	77.9	73.4	
2010-11 Annual	68.7	69.8	67.1	65.0	
Summer**	78.1	80.2	75.6	73.2	
2011-12 Annual	70.6	71.3	68.5	65.0	
Summer**	79.8	80.9	76.7	71.3	
2012-13 Annual	70.9	71.4	68.2	65.4	
Summer**	78.1	79.1	74.9	69.1	
2013-14 Annual	72.1	72.2	69.7	67.8	
Summer**	79.5	79.4	75.9	72.0	
<b>FY 2013-14 Deviation From Historical Avg</b>					
Annual	1.1	1.4	1.5	2.6	
Summer**	-2.0	-1.8	-1.1	-0.2	
*Values for Palo Alto were sometimes used in cases where Redwood City values were absent or incomplete.					
**July, August, September					
<b>Source:</b> Western Regional Climate Center					

**Figure 5A: Total Annual Precipitation**



**Figure 5B: Average Maximum Daily Temperature**



## 6. Service Area Populations



**Table 6: BAWSCA Service Area Populations**

	FY 2003-04	FY 2004-05	FY 2005-06	FY 2006-07	FY 2007-08	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2015-16	FY 2020-21	FY 2025-26	FY 2030-31	FY 2035-36	FY 2040-41
<b>San Mateo County</b>																	
Brisbane/GVMID	3,159	3,159	3,159	3,159	3,159	3,159	3,993	4,282	4,282	4,282	4,282	4,394	4,509	4,632	4,761	4,906	5,056
Burlingame	28,000	28,000	28,000	28,100	28,100	28,867	30,493	30,282	30,282	30,282	30,282	31,313	32,781	34,303	35,954	37,713	39,530
CWS - Bear Gulch	62,545	55,340	55,820	55,501	55,501	57,078	55,810	57,254	57,845	58,098	58,352	57,733	59,305	60,965	62,719	64,573	66,535
CWS - Mid-Peninsula	122,675	123,190	123,890	124,279	124,279	123,260	120,350	126,850	128,445	128,037	129,037	130,382	134,004	137,824	141,853	146,101	150,580
CWS - South SF	55,223	56,739	56,900	57,370	57,370	56,210	56,010	58,658	58,815	59,567	60,172	60,581	62,384	64,277	66,265	68,353	70,548
Coastside CWD	17,000	17,200	17,372	17,923	18,887	19,221	20,216	20,216	17,094	16,900	16,652	20,515	20,736	20,991	21,256	23,427	23,247
Daly City	104,450	104,450	104,661	106,160	106,361	107,099	107,773	101,920	102,043	102,820	104,462	104,044	107,053	110,283	113,688	117,467	121,385
East Palo Alto	31,500	31,500	25,696	29,690	29,690	29,690	29,690	26,181	25,215	25,927	25,927	30,042	31,423	33,453	35,726	38,045	40,514
Estero MID	34,385	34,385	34,385	34,385	36,000	36,100	36,100	36,100	36,100	36,567	37,000	37,100	37,900	38,500	38,900	39,200	39,500
Guadalupe Valley	438	438	438	438	438	438		Included with Brisbane									
Hillsborough	10,825	10,850	10,965	10,965	10,825	10,844	11,982	10,825	10,825	10,850	10,860	10,869	10,913	10,956	11,000	11,000	11,000
Los Trancos	1,009						Included with CWS - Bear Gulch										
Menlo Park	10,125	10,125	10,213	10,261	10,308	14,139	14,139	14,198	14,198	14,198	16,066	16,224	16,620	17,052	17,510	18,035	18,569
Mid-Peninsula WD	26,050	26,050	26,050	26,050	26,050	26,050	26,130	26,130	26,270	26,270	26,270	26,730	27,230	28,130	28,630	29,130	29,130
Millbrae	20,718	20,718	20,718	20,718	21,387	21,387	21,387	21,532	21,532	21,532	21,532	22,600	23,600	24,700	25,700	26,700	26,700
North Coast CWD	41,028	40,000	40,000	40,000	40,000	40,000	40,401	40,000	40,000	39,000	39,000	39,800	40,600	41,400	42,000	42,400	42,800
Redwood City	83,000	83,093	83,492	83,895	83,895	83,895	85,098	84,557	86,647	86,647	86,427	87,696	89,756	91,815	93,875	95,935	97,995
San Bruno	40,165	40,165	40,165	40,165	40,165	40,165	41,114	41,114	41,420	41,114	43,798	45,600	48,600	51,200	53,400	55,800	58,200
Skyline	1,650	1,210	1,812	1,812	1,658		Included with CWS - Bear Gulch										
Westborough WD	12,000	12,000	12,000	12,000	12,000	12,000	12,690	13,300	13,259	13,259	13,259	14,050	14,060	14,040	14,020	14,020	14,020
<b>Subtotal</b>	<b>705,945</b>	<b>698,612</b>	<b>695,736</b>	<b>702,871</b>	<b>706,073</b>	<b>709,602</b>	<b>713,376</b>	<b>713,399</b>	<b>714,272</b>	<b>715,350</b>	<b>723,378</b>	<b>739,673</b>	<b>761,474</b>	<b>784,521</b>	<b>807,257</b>	<b>832,805</b>	<b>855,309</b>
<b>Santa Clara County</b>																	
Milpitas	64,000	64,998	64,998	64,998	69,419	70,817	70,817	66,790	67,804	67,894	69,783	70,900	73,700	76,500	79,100	81,600	83,900
Mountain View	71,841	71,820	72,033	73,262	73,932	74,762	75,787	75,275	73,774	73,656	75,280	76,758	80,082	83,408	86,732	90,057	93,382
Palo Alto	60,246	59,900	62,148	62,148	63,467	63,400	65,408	64,403	64,538	66,368	66,642	66,642	68,994	70,869	75,788	75,788	78,456
Purissima Hills WD	6,000	6,000	6,000	6,050	6,050	6,050	6,060	6,118	6,120	6,127	6,142	6,150	6,165	6,180	6,195	6,220	6,240
San Jose	12,000	13,623	12,400	13,600	14,800	16,900	14,645	14,624	14,658	15,178	15,286	26,569	39,884	53,200	66,515	79,830	79,830
Santa Clara	108,119	103,200	110,771	114,238	114,238	117,200	118,830	118,830	118,263	119,311	118,459	125,397	131,732	136,660	141,587	146,917	156,482
Stanford	24,700	24,700	27,715	27,715	29,026	27,397	27,491	28,218	28,792	29,401	29,635	29,683	30,533	31,461	32,439	33,471	34,561
Sunnyvale	131,127	133,086	133,544	133,721	133,721	137,538	138,826	141,099	142,896	145,973	147,055	147,500	148,860	150,225	152,585	154,445	156,305
<b>Subtotal</b>	<b>478,033</b>	<b>477,327</b>	<b>489,609</b>	<b>495,732</b>	<b>504,653</b>	<b>514,064</b>	<b>517,864</b>	<b>515,357</b>	<b>516,845</b>	<b>523,908</b>	<b>528,282</b>	<b>549,599</b>	<b>579,950</b>	<b>608,503</b>	<b>640,941</b>	<b>668,328</b>	<b>689,156</b>
<b>Alameda County</b>																	
Alameda CWD	323,200	324,838	324,800	327,652	330,786	331,293	332,000	327,000	331,000	336,000	340,000	344,000	357,000	372,000	387,000	404,000	416,000
Hayward	144,500	146,027	146,398	147,845	149,205	150,878	153,104	146,000	147,113	148,756	151,037	150,919	157,655	164,617	171,979	179,916	188,170
<b>Subtotal</b>	<b>467,700</b>	<b>470,865</b>	<b>471,198</b>	<b>475,497</b>	<b>479,991</b>	<b>482,171</b>	<b>485,104</b>	<b>473,000</b>	<b>478,113</b>	<b>484,756</b>	<b>491,037</b>	<b>494,919</b>	<b>514,655</b>	<b>536,617</b>	<b>558,979</b>	<b>583,916</b>	<b>604,170</b>
<b>Total</b>	<b>1,651,678</b>	<b>1,646,804</b>	<b>1,656,543</b>	<b>1,674,100</b>	<b>1,690,717</b>	<b>1,705,837</b>	<b>1,716,344</b>	<b>1,701,756</b>	<b>1,709,230</b>	<b>1,724,014</b>	<b>1,742,697</b>	<b>1,784,191</b>	<b>1,856,079</b>	<b>1,929,641</b>	<b>2,007,177</b>	<b>2,085,049</b>	<b>2,148,635</b>

Source: BAWSCA Annual Surveys

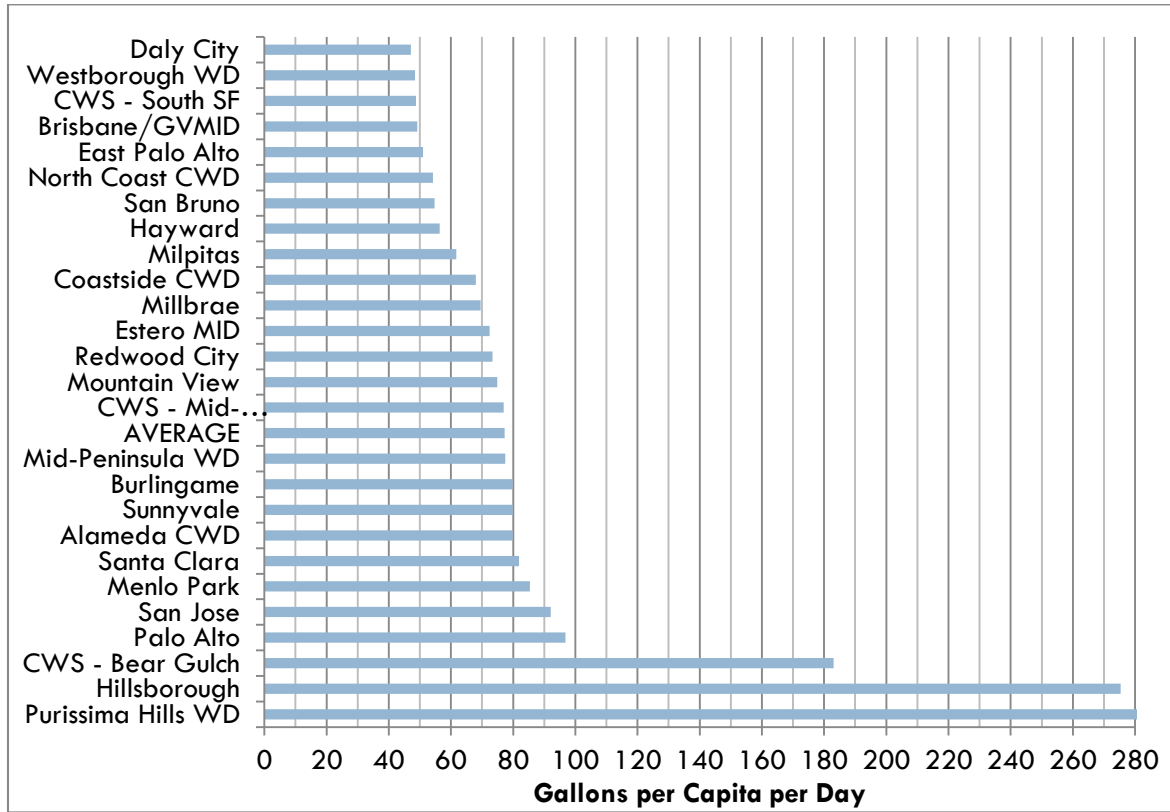




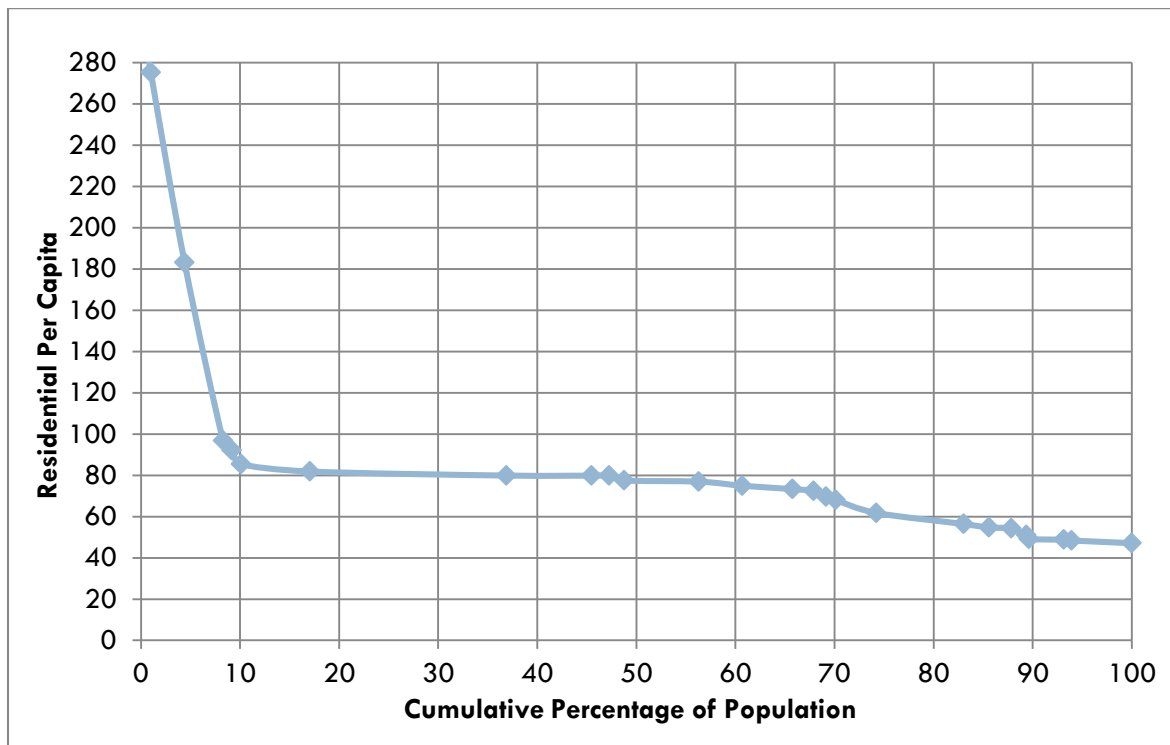
## 7. Current Water Use Per Capita



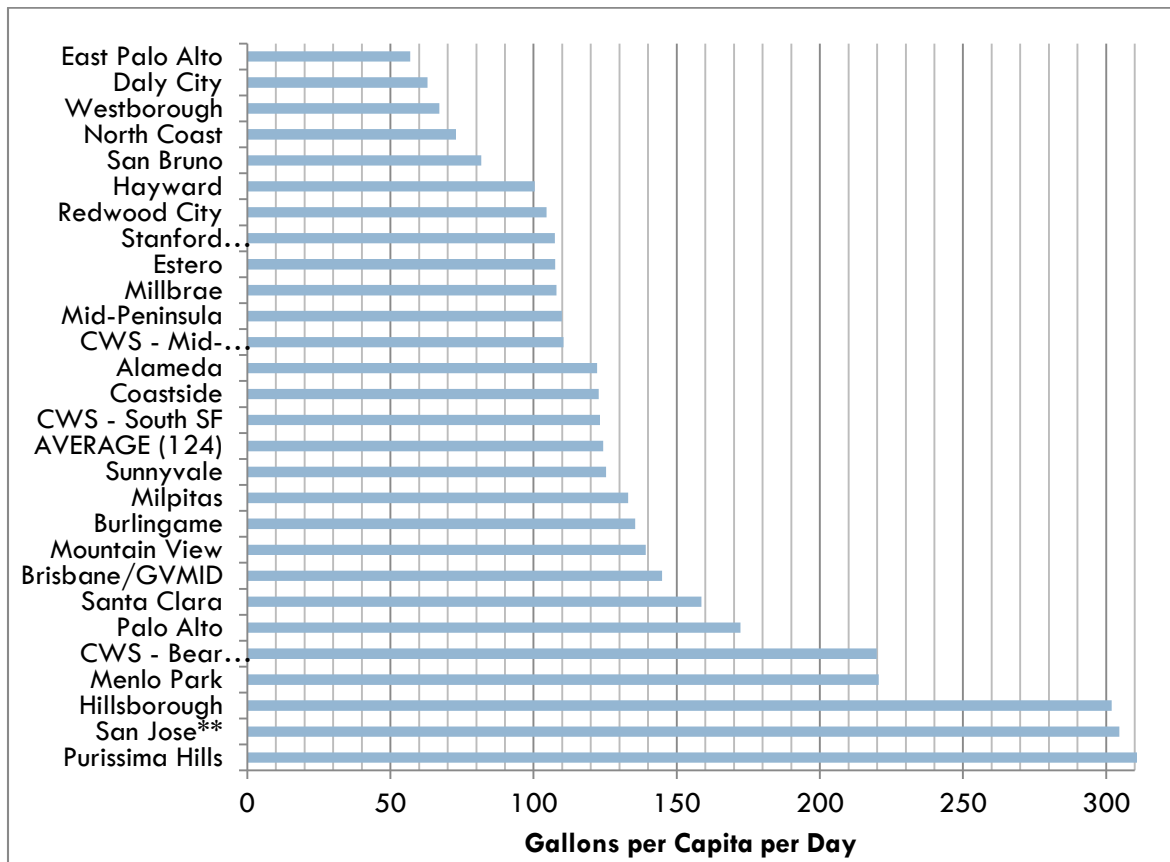
**Figure 7A-1: Residential Per Capita Consumption - FY 2013-14 (in gpcd)**



**Figure 7A-2: Residential Per Capita Consumption (in gpcd) Distributed by Percentage of Population- FY 2013-14**



**Figure 7B: Gross Per Capita Consumption(in gpcd) – FY 2013-14**



**Table 7A: Residential Per Capita Consumption and Single-Family Average Monthly Use Among BAWSCA Members - FY 2013-14**

			<b>*Residential Per Capita Consumption</b>	<b>**Single-Family Average Monthly Use</b>
	<b>Service Area</b>	<b>Residential Consumption*</b>		
<b>Member</b>	<b>Population</b>	<b>(ccf)</b>	<b>(gpcd)</b>	<b>(ccf)</b>
Daly City	104,462	2,401,406	47.1	7.5
Westborough WD	13,259	313,148	48.4	***n/a
CWS - South SF	60,172	1,432,239	48.8	7.6
Brisbane/GVMID	4,282	102,695	49.2	4.8
East Palo Alto	25,927	645,589	51.0	***n/a
North Coast CWD	39,000	1,031,692	54.2	6.3
San Bruno	43,798	1,169,527	54.7	***n/a
Hayward	151,037	4,157,114	56.4	8.0
Milpitas	69,783	2,103,513	61.8	9.7
Coastside CWD	16,652	552,572	68.0	6.8
Millbrae	21,532	731,183	69.6	8.0
Estero MID	37,000	1,306,850	72.4	11.0
Redwood City	86,427	3,092,119	73.3	10.0
Mountain View	75,280	2,752,779	74.9	9.1
CWS - Mid-Peninsula	129,037	4,843,897	76.9	10.6
Mid-Peninsula WD	26,270	993,343	77.5	9.1
Burlingame	30,282	1,179,652	79.8	10.2
Sunnyvale	147,055	5,729,468	79.8	11.4
Alameda CWD	340,000	13,250,738	79.9	11.1
Santa Clara	118,459	4,730,865	81.8	12.3
Menlo Park	16,066	669,505	85.4	12.7
San Jose	15,286	686,611	92.1	8.7
Palo Alto	66,642	3,146,731	96.8	13.2
CWS - Bear Gulch	58,352	5,213,264	183.1	25.2
Hillsborough	10,860	1,459,092	275.4	29.1
Purissima Hills WD	6,142	885,184	295.4	35.7
<b>Agency Totals</b>	<b>1,713,062</b>	<b>64,580,776</b>		
<b>Average Residential Per Capita Consumption</b>			<b>77.3</b>	
<b>Average Single Family Monthly Use</b>				<b>11.9</b>
*Includes multi-family and single family accounts.				
**Individually metered single family homes, townhouses, and condos.				
***East Palo Alto, San Bruno, and Westborough WD report multi-family with single family use.				
<b>Notes:</b> Due to its unique service area, Stanford is excluded.				
<b>Source:</b> BAWSCA FY 2013-14 Annual Survey				

**Table 7B: Gross Per Capita Consumption and Single-Family Average Monthly Use Among BAWSCA Members - FY 2013-14**

<b>California Water Service (CWS) is separated into its three service areas.</b>			
	<b>Service Area</b>	<b>*Total Consumption (ccf)</b>	<b>Gross Per Capita Consumption (gpcpd)</b>
<b>Member</b>	<b>Population</b>		
East Palo Alto	25,927	720,040	56.9
Daly City	104,462	3,208,302	62.9
Westborough WD	13,259	433,980	67.1
North Coast CWD	39,000	1,387,578	72.9
San Bruno	43,798	1,747,722	81.8
Hayward	151,037	7,402,067	100.4
Redwood City	86,427	4,407,672	104.5
Stanford University	29,635	1,553,272	107.4
Estero MID	37,000	1,942,333	107.6
Millbrae	21,532	1,134,741	108.0
Mid-Peninsula WD	26,270	1,408,109	109.8
CWS - Mid-Peninsula	129,037	6,956,723	110.5
Alameda CWD	340,000	20,274,011	122.2
Coastside CWD	16,652	997,259	122.7
CWS - South SF	60,172	3,616,258	123.2
Sunnyvale	147,055	8,994,820	125.3
Milpitas	69,783	4,529,500	133.0
Burlingame	30,282	2,001,619	135.5
Mountain View	75,280	5,111,770	139.2
Brisbane/GVMID	4,282	302,776	144.9
Santa Clara	118,459	9,169,765	158.6
Palo Alto	66,642	5,600,519	172.2
CWS - Bear Gulch	58,352	6,259,793	219.8
Menlo Park	16,066	1,729,399	220.6
Hillsborough	10,860	1,599,812	301.9
San Jose**	15,286	2,272,262	304.6
Purissima Hills WD	6,142	982,100	327.7
<b>Totals</b>	<b>1,742,697</b>	<b>105,744,203</b>	
		<b>Average gpcpd</b>	<b>124.3</b>
		<b>Median of Agencies</b>	<b>122.7</b>
*Exclusive of recycled water; inclusive of unaccounted for water.			
**Service area predominantly commercial/industrial.			
<b>Source: BAWSCA FY 2013-14 Annual Survey</b>			

**Table 7C: Historical BAWUCA/BAWUCA Per Capita Data (1975-76 to Present)**

Year	Service Area Population*	Water Usage** (mgd)	Gross Per Capita (gpcd)	Residential Per Capita (gpcd)
1975-76	1,162,143	212.5	182.9	114.9
1976-77	1,176,655	160.1	136.0	86.0
1977-78	1,186,121	165.1	139.2	88.1
1978-79	1,192,776	184.7	154.9	96.9
1979-80	1,205,079	196.8	163.3	103.2
1980-81	1,216,827	208.3	171.2	108.1
1981-82	1,229,452	207.2	168.5	105.6
1982-83	1,248,928	209.2	167.5	105.3
1983-84	1,294,730	234.1	180.8	113.9
1984-85	1,310,389	232.2	177.2	111.1
1985-86	1,378,899	247.7	179.6	101.5
1986-87	1,397,010	260.6	186.5	104.3
1987-88	1,420,326	254.3	179.1	100.4
1988-89	1,427,372	218.1	152.8	87.5
1989-90	1,456,522	224.0	153.8	90.3
1990-91	1,470,633	204.4	139.0	81.0
1991-92	1,474,042	196.8	133.5	76.4
1992-93	1,496,205	204.3	136.6	80.4
1993-94	1,516,040	227.2	149.9	88.0
1994-95	1,529,829	221.1	144.5	85.7
1995-96	1,536,586	244.0	158.8	93.5
1996-97	1,556,641	260.2	167.1	98.2
1997-98	1,581,970	241.5	152.7	90.0
1998-99	1,602,708	254.4	158.7	92.5
1999-00	1,620,307	261.5	161.4	95.2
2000-01	1,634,308	261.0	159.7	95.9
2001-02	1,653,618	251.5	152.1	92.2
2002-03	1,645,338	246.3	149.7	90.8
2003-04	1,651,678	259.4	157.1	94.2
2004-05	1,646,804	239.7	145.6	88.4
2005-06	1,656,543	239.4	144.5	88.1
2006-07	1,674,100	250.2	149.4	91.1
2007-08	1,690,931	250.7	148.2	89.3
2008-09	1,705,837	242.0	141.9	84.4
2009-10	1,719,028	223.8	130.2	77.8
2010-11	1,701,756	216.4	127.2	77.4
2011-12	1,709,230	216.8	126.8	77.7
2012-13	1,724,014	219.1	127.1	79.3
2013-14	1,742,697	216.7	124.3	77.3

\*All BAWUCA/BAWUCA agencies reporting, including Stanford.

\*\*Water usage totals include unaccounted for water; exclude recycled water.

**Note:** Population figures shown above may not always match those figures shown in past annual surveys due to corrected data. Also, to conform with standardized reporting of gross per capita use, recycled water use has been removed from total water usage data starting in FY 1997-98.

**Source:** BAWUCA/BAWUCA Annual Surveys / Historical Data Files

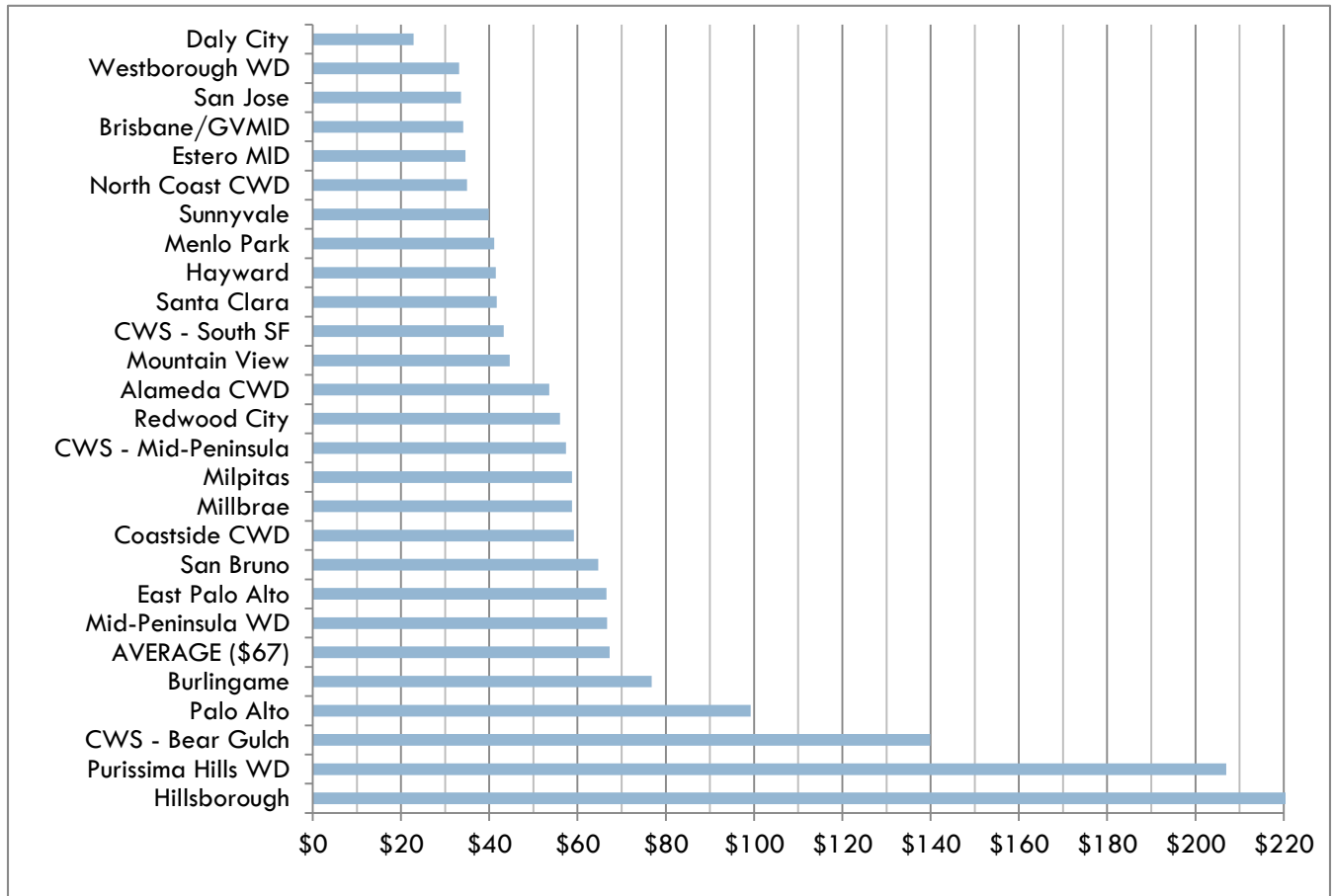




## 8. Current Residential Water Bills



**Figure 8A: Single Family Water Bills Based on Average Monthly Use Using Rates in Effect for FY 2013-14**



**Table 8A: Single Family Water Bills\* Based on Average Monthly Use for FY 2013-14, Using Rates in Effect for FY 2013-14**

**Inclusive of all BAWSCA agencies except Stanford; California Water Service is separated into its three service areas.**

		<b>Special</b>	<b>All</b>
	<b>Municipalities</b>	<b>Districts</b>	<b>Agencies</b>
	<b>Average</b>	<b>Average</b>	<b>Average</b>
	<b>Monthly Use</b>	<b>Monthly Use</b>	<b>Monthly</b>
<b>Member</b>	<b>(ccf)</b>	<b>(ccf)</b>	<b>Bill</b>
Daly City	7.5		\$22.82
Westborough WD		6.1	\$33.17
San Jose	8.7		\$33.59
Brisbane/GVMID	4.8		\$34.10
Estero MID		11.0	\$34.57
North Coast CWD		6.3	\$34.97
Sunnyvale	0.0		\$39.92
Menlo Park	12.7		\$41.13
Hayward	11.1		\$41.45
Santa Clara	12.3		\$41.70
CWS - South SF		7.6	\$43.28
Mountain View	9.1		\$44.63
Alameda CWD		11.4	\$53.55
Redwood City	10.0		\$55.99
CWS - Mid-Peninsula		10.6	\$57.39
Millbrae	8.0		\$58.78
Milpitas	9.7		\$58.78
Coastside CWD		6.8	\$59.15
San Bruno	10.1		\$64.70
East Palo Alto	15.6		\$66.55
Mid-Peninsula WD		9.1	\$66.71
Burlingame	10.2		\$76.82
Palo Alto	13.2		\$99.26
CWS - Bear Gulch		25.2	\$139.94
Purissima Hills WD		35.7	\$206.96
Hillsborough	29.1		\$239.24
<b>Total Averages</b>	<b>10.8</b>	<b>13.0</b>	<b>\$67.27</b>

\* Inclusive of any service charge.

**Note:** Differences in average monthly bills may reflect local capital improvements or maintenance expenditures, the size of the rate base, the extent to which revenue is generated through connections, and other factors.

**Source:** BAWSCA FY 2013-14 Annual Survey

**Table 8B: Single Family Water Bills\* Based on Average Monthly Use for FY 2013-14, Using Rates in Effect for FY 2013-14 Inclusive of Service Charge (1 of 3)**

Member/ Average Monthly Use (Units)	Billing Cycle	Service Charge	Rate per ccf	Rate Blocks (ccf)	Total Monthly Bill	Effective:	Remarks
<b>Alameda CWD</b> 11.1	Bimonthly	\$31.95	\$3.37		\$53.55		02/01/2014
<b>Brisbane/Guadalupe Valley MID</b> 4.8	Bimonthly	\$22.67 3/4" meter	\$0.00 \$5.19 \$7.00 \$8.69 \$11.05	0 - 1 1 - 3 4 - 8 9 - 16 17 +	\$34.10	Effective:	10/15/2012
<b>Burlingame</b> 10.2	Bimonthly	\$71.94 5/8" and 3/4" meter	\$0.00 \$5.44 \$5.75 \$6.63 \$7.77	0.0 - 2.7 2.7 - 12.1 12.1 - 24.1 24.1 - 40.2 40.2 +	\$76.82	Effective:	01/01/2013 First 2000 gallons per billing period included in bimonthly service charge
<b>CWS - Bear Gulch</b> 25.2	Monthly	\$14.20 5/8 x 3/4 inch meter	\$4.81 \$5.11 \$6.11	0 - 10 11 - 35 36 +	\$139.94	Effective:	05/01/2013
<b>CWS - Mid Peninsula</b> 10.6	Monthly	\$10.50 5/8 x 3/4 inch meter	\$4.26 \$4.77 \$5.90	0 - 7 8 - 12 13 +	\$57.39	Effective:	05/01/2013
<b>CWS - South San Francisco</b> 7.6	Monthly	\$10.50 5/8 x 3/4 inch meter	\$4.26 \$4.77 \$5.90	0 - 7 8 - 12 13 +	\$43.28	Effective:	05/01/2013
<b>Coastside CWD</b> 6.8	Bimonthly	\$36.82 5/8 inch service	\$6.01 \$6.62 \$8.61 \$10.65	1 - 8 9 - 25 26 - 40 41 +	\$59.15	Effective:	07/01/2013
<b>Daly City</b> 7.5	Bimonthly	\$29.20 5/8" & 3/4"	\$0 \$5.51 \$5.63 \$5.77 \$5.88 \$6.03 \$6.16 \$6.29 \$6.42 \$6.57 \$6.70	0 - 6 7 - 10 11 - 14 15 - 20 21 - 50 51 - 70 71 - 100 101 - 200 201 - 500 501 - ## 1001 +	\$22.82	Effective:	07/01/2013 First 6 units included in bimonthly service charge
<b>East Palo Alto</b> 15.6	Bimonthly	\$13.73 5/8", 3/4 and 1" meter	\$3.82		\$66.55	Effective:	07/01/2013
<b>Estero MID</b> 11.0	Bimonthly	\$15.80 3/4"	\$2.35 \$3.13 \$4.70	0 - 10 10 - 20 20 - 0	\$34.57	Effective:	07/01/2013

\* Average single family use among BAWSCA agencies varies from 4.8 to 35.7 units per month. 1 unit = 1 ccf. Includes individually metered single family homes, townhouses, and condos. It is calculated by dividing single family water use (Table 4A) by the number of single family accounts (Table 4B); divided by 12.

**Table 8B: Single Family Water Bills\* Based on Average Monthly Use for FY 2013-14, Using Rates in Effect for FY 2013-14 Inclusive of Service Charge (2 of 3)**

Member/ Average Monthly Use (Units)	Billing Cycle	Service Charge	Rate per ccf	Rate Blocks (ccf)	Total Monthly Bill	Effective:	Remarks
<b>Hayward</b>	Bimonthly	\$12.00	\$4.40	1 - 8	\$41.45	Effective:	10/01/2013
8.0		5/8" meter	\$5.35	9 - 25			
			\$6.60	26 - 60			
			\$7.15	61 +			
<b>Hillsborough</b>	Bimonthly	\$90.00	\$6.32	0 - 20	\$239.24	Effective:	01/01/2014
29.1		Up to 1" meter	\$7.47	20 - 50			
			\$8.57	50 - 100			
			\$10.25	100 - 200			
			\$12.55	200 +			
<b>Menlo Park</b>	Bimonthly	\$14.46	\$2.30	0 - 5	\$41.13	Effective:	07/01/2013
12.7		5/8" Meter Size	\$2.90	6 - 10			
			\$3.47	11 - 25			
			\$4.63	26 +			
<b>Mid-Peninsula WD</b>	Monthly	\$16.91	\$3.85	0 - 2	\$66.71	Effective:	06/30/2014
9.1		5/8" meter	\$5.93	3 - 10			
			\$7.11	11 - 25			
			\$8.30	26 +			
<b>Millbrae</b>	Bimonthly	\$30.00	\$5.45		\$58.78	Effective:	07/01/2013
8.0		3/4" meter					
<b>Milpitas</b>	Bimonthly	\$26.82	\$2.30	0 - 10	\$35.76	Effective:	07/01/2013
9.7		5/8" meter	\$3.22	> 10 - 20			
			\$4.34	> 20 - 30			
			\$4.86	> 30 +			
<b>Mountain View</b>	Bimonthly	\$10.80	\$3.54	0 - 3	\$44.63	Effective:	07/01/2013
9.1		5/8" and 3/4" meters	\$4.72	3 - 15			
			\$7.55	15 +			
<b>North Coast CWD</b>	Bimonthly	\$26.76	\$2.72	0 - 5	\$34.97	Effective:	01/01/2014
6.3		5/8" meter	\$6.03	6 - 16			
			\$8.63	17 - 28			
			\$15.83	29 +			
<b>Palo Alto</b>	Monthly	\$14.67	\$4.99	0 - 6	\$99.26	Effective:	07/01/2013
13.2		5/8 inch meter	\$7.58	6 +			
			\$0.00	0 - 0			
<b>Purissima Hills WD</b>	Monthly	\$15.00	\$3.21	1 - 10	\$174.94	Effective:	4/11/2012
35.7		3/4" Meter	\$4.66	11 - 30			
			\$6.11	31 - 60			
			\$7.56	61 - 100			
			\$9.01	101 - 200			
			\$9.95	201 - 0			

\* Average single family use among BAWSCA agencies varies from 4.8 to 35.7 units per month. 1 unit = 1 ccf. Includes individually metered single family homes, townhouses, and condos. It is calculated by dividing single family water use (Table 4A) by the number of single family accounts (Table 4B); divided by 12.

**Table 8B: Single Family Water Bills\* Based on Average Monthly Use for FY 2013-14, Using Rates in Effect for FY 2013-14 Inclusive of Service Charge (3 of 3)**

Member/ Average Monthly Use (Units)	Billing Cycle	Service Charge	Rate per ccf	Rate Blocks (ccf)	Total Monthly Bill	Effective:	Remarks
<b>Redwood City</b> 10.0	Bimonthly	\$47.96	\$3.20	0 - 10	\$55.99	Effective:	08/01/2013
			\$4.05	11 - 25			
			\$6.63	26 - 50			
			\$9.37	51 +			
<b>San Bruno</b> 10.1	Bimonthly	\$16.60	\$5.56	0 - 10	\$64.70	Effective:	07/01/2013
	3/4 inch meter size		\$6.67	11 - 20			
			\$8.90	21 +			
<b>San Jose MWD-N</b> 8.7	Bimonthly	\$22.54	\$2.57	0 - 14	\$33.59	Effective:	07/01/2013
	5/8 inch meter		\$2.95	15 - 28			
			\$3.26	29 - 42			
			\$3.59	42 +			
<b>Santa Clara</b> 12.3	Monthly	\$3.39	\$3.39		\$41.70	Effective:	07/01/2013
	5/8 inch meter						Service charge is the minimum monthly charge, not added if usage is greater than the minimum charge.
<b>Sunnyvale</b> 11.4	Bimonthly	\$15.66	\$2.30	0 - 8	\$39.92	Effective:	7/1/14
	5/8" X 3/4" meter		\$4.06	9 - 30			
			\$5.85	31 - 90			
			\$7.61	91 +			
<b>Westborough WD</b> 6.1	Bimonthly	\$12.70	\$4.40		\$33.17	Effective:	07/01/2013
* Average single family use among BAWSCA agencies varies from 4.8 to 35.7 units per month. 1 unit = 1 ccf. Includes individually metered single family homes, townhouses, and condos. It is calculated by dividing single family water use (Table 4A) by the number of single family accounts (Table 4B); divided by 12.							
<b>Summary Billing Information</b>							
		<b>Average</b>					
	<b>**Average</b>	<b>Monthly</b>					
	<b>Monthly</b>	<b>Service</b>					
	<b>Bill</b>	<b>Charge</b>					
All BAWSCA Agencies	\$65.16	\$14.31					
Municipal Agencies Only	\$61.99	\$15.73					
Special Districts / Private	\$69.47	\$12.36					
** Inclusive of service charge							
<b>Source:</b> BAWSCA FY 2013-14 Annual Survey							





## 9. Agency Profiles



## Alameda County Water District

43885 South Grimmer Boulevard  
Fremont, California 94538-6348

Phone: (510) 668-4200 Fax: (510) 656-3426

Web: <http://www.acwd.org>

### Service Area

Alameda County Water District (ACWD) supplies water to the cities of Fremont, Newark, and Union City.

### System

#### Profile

Area Size	104.8 sq. miles
Service Population	340,000
Number of Accounts	82,787
Number of SF RWS Connections	8
Connections To SF RWS Mains	BDPL 1, 2, 3, 4 and 5
Avg. Day Demand (mgd)	41.55
Avg. Day Purchases From SF RWS (mgd)	11.65
% Demand Met With SF RWS Supplies	28.0%
Maximum Local Water Production (mgd)	65.852 (7/16/10, Production facilities + direct SF RWS TOs + NUMMI)
Alternative Supply Sources	SF RWS, State Water Project (SWP), Local Groundwater
Interties With Other Agencies	Milpitas, Hayward
Local Storage (mg)	85.8 maximum capacity – volume in storage is typically 60 to 80% based on seasonal operating conditions
Days of Storage	1.8 – based on maximum capacity storage and average daily demand 42 mg of new treated water storage planned available by 2014

### Summary

ACWD currently has three primary sources of water supply: (1) the State Water Project (SWP), (2) San Francisco's Regional Water System and (3) local supplies. The SWP and San Francisco Regional Water Supplies are imported into the District service area through the South Bay Aqueduct and Hetch-Hetchy Aqueduct, respectively. Local supplies include fresh groundwater from the Niles Cone Groundwater Basin (underlying the District service area), desalinated brackish groundwater from portions of the groundwater basin previously impacted by seawater intrusion, and surface water from the Del Valle Reservoir. The primary source of recharge for the Niles Cone Groundwater Basin is from percolation of runoff from the Alameda Creek watershed. To a lesser degree, a portion of ACWD's SWP supplies are also used for local groundwater percolation. Infiltration of rainfall and applied water also contribute to local groundwater recharge.

Before being supplied to ACWD's customers, the source water supplies are treated to meet and surpass all state and federal drinking water standards. ACWD operates two surface water treatment plants that treat SWP and local surface water from Del Valle Reservoir. The Newark Desalination Facility treats brackish groundwater to remove salts and other impurities, and the Blending Facility blends high quality San Francisco water with local fresh groundwater (with higher hardness) to provide a blended supply with lower overall hardness.

Over the 2000-2010 period, 36% of the District's distribution system water supply was from the State Water Project. This water was either purified at one of ACWD's two water treatment plants or used to recharge local aquifers. Water from the San Francisco Regional System provided approximately 25% of the distribution system water supply and local supplies from Del Valle Reservoir and groundwater (recharged from runoff from the Alameda Creek Watershed and infiltration of rainfall and applied water) accounted for the balance (about 39%) of the distribution system supplies.

### Water Supply and Demand

Supply by Source	Actual FY 10-11 (ccf)	Actual FY 11-12 (ccf)	Actual FY 12-13 (ccf)	Actual FY 13-14 (ccf)
San Francisco Water	3,825,797	4,052,940	4,371,390	5,684,760
State Water Project	6,287,015	7,979,757	7,278,440	7,267,115
Desalinated Water	2,876,869	3,881,551	3,516,711	3,666,714
Local Groundwater	5,279,012	4,558,022	3,886,230	3,625,801
Surface Water	2,652,804	635,976	2,157,091	29,621
Recycled Water	0	0	0	0
Other	0	0	0	0
<b>Total</b>	<b>20,921,497</b>	<b>21,108,246</b>	<b>21,209,862</b>	<b>20,274,011</b>
<b>mgd equivalent</b>	<b>42.87</b>	<b>43.26</b>	<b>43.47</b>	<b>41.55</b>

**Note:** FY 10-11 San Francisco amount is from a different source than previous years' values and should be considered provisional. (Source: SFPUC memo "Minimum Annual water Purchases for Fiscal year ended June 30, 2011", August 10, 2011)

### Demand by Sector

Residential	12,754,448	12,774,687	13,656,723	13,250,738
Commercial/Industrial	3,125,418	2,770,570	3,265,490	3,282,861
Other	634,653	845,841	931,510	873,524
Dedicated Irrigation	2,013,377	2,742,603	2,506,906	2,354,869
Unaccounted for	2,393,601	1,974,545	849,233	512,019
<b>Total</b>	<b>20,921,497</b>	<b>21,108,246</b>	<b>21,209,862</b>	<b>20,274,011</b>
<b>mgd equivalent</b>	<b>42.87</b>	<b>43.26</b>	<b>43.47</b>	<b>41.55</b>

Per Capita Use	Actual FY 10-11 (gpcpd)	Actual FY 11-12 (gpcpd)	Actual FY 12-13 (gpcpd)	Actual FY 13-14 (gpcpd)
Residential	80	79	83	80
Gross	128	131	129	122

**Storage Reservoirs**

Designation	Capacity (gallons)	Designation	Capacity (gallons)
Alameda	16,250,000	Mayhew	4,450,000
Appian	780,000	Middlefield	7,230,000
Avalon	2,750,000	Ohlone	1,500,000
Canyon Heights	500,000	Patterson	14,400,000
Decoto	14,800,000	Vineyard Heights	500,000
Hidden Valley	2,000,000	Whitfield	20,000,000
		<b>Total</b>	<b>85,160,000</b>

ACWD Engineering Report, 1995. (Mayhew and Canyon Heights updated to reflect changed conditions)

**Water Treatment Facilities**

Designation	Capacity (mgd)	Status	Designation	Capacity (mgd)	Status
WTP #2	22	Active	Mission San Jose WTP	4	Active
Blending Facility	48	Active	Newark Desalination Facility	12.5	Active
			<b>Total</b>	<b>86.5</b>	

**Wells**

Name	Capacity (mgd)	Status	Name	Capacity (mgd)	Status
Mowry 1	1.4	Active	PT 1	3.4	Active
Mowry 2	3.2	Active	PT 2	3.4	Active
Mowry 3	3.2	Active	PT 3	3.4	Active
Mowry 4	3.0	Active	PT 4	3.4	Active
Mowry 6	3.3	Active	PT 5	3.4	Active
Mowry 7	3.3	Active	PT 6	3.4	Active
Mowry 8	3.0	Active	PT 7	3.4	Active
Mowry 9	3.3	Active	PT 8	3.4	Inactive
			<b>Total</b>	<b>50.9</b>	

**Interties**

Name	No.	Diameter* (in.)
Hayward	1	12
Hayward	2	**
Milpitas	1	8
Milpitas	2	8

\*Diameter of main connected

\*\*3.6 mgd connection to Hayward's SF RWS Line



## City of Brisbane / Guadalupe Valley Municipal Improvement District

50 Park Lane  
Brisbane, CA 94005

Phone: (415) 508-2130 Fax: (415) 467-5547

Web: <http://www.ci.brisbane.ca.us/html/cityDept/pw/water.asp>

### Service Area

The City of Brisbane, located in north San Mateo County, operates both the City of Brisbane Water District and the Guadalupe Valley Municipal Improvement District (GVMID), an area within the Brisbane city limits composed of an industrial park development and a small residential enclave.

### System

#### Profile

Area Size	3.5 square miles
Service Population	4,282
Number of Accounts	1,964
Number of SF RWS Connections	5
Connections To SF RWS Mains	Crystal Springs Pipeline #1 and #2
Avg. Day Demand (mgd)	0.62
Avg. Day Purchases From SF RWS (mgd)	0.62
% Demand Met With SF RWS Supplies	100.0%
Maximum Local Water Production (mgd)	0
Alternative Supply Sources	None
Interties With Other Agencies	CWS South San Francisco, Daly City
Local Storage (mg)	2.9
Days of Storage	3 – Combined storage. All zones can meet the 8 hr criteria either separately or by pumping from zones with excess capacity.

#### Summary

The City of Brisbane's only source of potable water is supplied through 3 turnouts off the Crystal Springs #1 and #2 Pipelines. The Brisbane distribution system is comprised of 4 pressure zones, and is operated as a combined system with GVMID Water District.

The GVMID's only source of potable water is supplied through 2 turnouts off the Crystal Springs #1 and #2 Pipelines. The GVMID distribution system is comprised of 4 pressure zones, and is operated as a combined system with the City of Brisbane Water District.

**Water Supply and Demand**

<b>Supply by Source</b>	<b>Actual FY 10-11 (ccf)</b>	<b>Actual FY 11-12 (ccf)</b>	<b>Actual FY 12-13 (ccf)</b>	<b>Actual FY 13-14 (ccf)</b>
San Francisco Water	275,934	280,650	287,290	302,776
Guadalupe Valley - SF RWS	0	0	0	0
Recycled Water	0	0	0	0
Other	0	0	0	0
<b>Total</b>	<b>275,934</b>	<b>280,650</b>	<b>287,290</b>	<b>302,776</b>
<b>mgd equivalent</b>	<b>0.57</b>	<b>0.58</b>	<b>0.57</b>	<b>0.62</b>

**Demand by Sector**

Residential	105,722	105,270	104,478	102,695
Commercial/Industrial	75,936	72,552	74,985	77,363
Other	3,850	4,477	6,998	13,488
Dedicated Irrigation	79,473	81,645	89,170	89,577
Unaccounted for	10,953	16,706	11,659	19,653
<b>Total</b>	<b>275,934</b>	<b>280,650</b>	<b>287,290</b>	<b>302,776</b>
<b>mgd equivalent</b>	<b>0.57</b>	<b>0.58</b>	<b>0.59</b>	<b>0.62</b>

<b>Per Capita Use</b>	<b>Actual FY 10-11 (gpcpd)</b>	<b>Actual FY 11-12 (gpcpd)</b>	<b>Actual FY 12-13 (gpcpd)</b>	<b>Actual FY 13-14 (gpcpd)</b>
Residential	51	50	50	49
Gross	132	134	137	145

**Note:** Beginning in FY 2009-10, Brisbane and GVMID source, demand, and per capita use data is reported together as a combined Brisbane/GVMID District.

**Facilities and Distribution****Storage Reservoirs**

<b>Designation</b>	<b>Type</b>	<b>Capacity (gallons)</b>
Crocker Tank	Concrete	1,000,000
Glen Park Tank 1	Steel	200,000
Glen Park Tank 2	Steel	200,000
Guadalupe Tank	Steel	1,000,000
Margaret Tank	Steel	500,000
<b>Total</b>		<b>2,900,000</b>

**Interties**

<b>Name</b>	<b>No.</b>	<b>Diameter (in.)</b>
CWS - South San Francisco	1	16
Daly City	2	6, 12
GVMID	3	12, 12, 12



## City of Burlingame

501 Primrose Road

Burlingame, California 94010-3997

Phone: (650) 558-7230 Fax (650) 685-9310

Web: [http://www.burlingame.org/p\\_w/water/water\\_system.htm](http://www.burlingame.org/p_w/water/water_system.htm)

### Service Area

The City of Burlingame is located in central San Mateo County. Burlingame's water system serves the entire area within its city limits, portions of the unincorporated Burlingame Hills area, and a few properties in San Mateo and Hillsborough.

### System

#### Profile

Area Size	5.5 square miles
Service Population	30,282
Number of Accounts	9,137
Number of SF RWS Connections	6
Connections To SF RWS Mains	Crystal Springs #2 and #3, Sunset Pipeline
Avg. Day Demand (mgd)	4.40
Avg. Day Purchases From SF RWS (mgd)	4.10
% Demand Met With SF RWS Supplies	93.2%
Maximum Local Water Production (mgd)	0
Alternative Supply Sources	None
Interties With Other Agencies	California Water Service Company (CWS) – City of San Mateo, Town of Hillsborough, City of Millbrae
Local Storage (mg)	2,941
Days of Storage	1.2 days in six out of eight zones on maximum day, the remaining two zones have 0.2 days.

#### Summary

The City of Burlingame receives all of its water supply from six SF RWS turnouts located along El Camino Real. Water is pumped from the turnouts to five storage tanks and to two reservoirs located at higher elevations in the City's distribution system.

Burlingame's water system is divided into two sections. Water for the hills area is supplied by water pumped into tanks and reservoirs; and water for the lower elevation area is supplied directly from the SF RWS turnouts.

For emergency water supply, Burlingame has connections to California Water Service Company, which serves the City of San Mateo, and connections to the Town of Hillsborough and the City of Millbrae water systems.

**Water Supply and Demand**

Supply by Source	Actual FY 10-11 (ccf)	Actual FY 11-12 (ccf)	Actual FY 12-13 (ccf)	Actual FY 13-14 (ccf)
San Francisco Water	1,971,599	2,012,282	1,952,965	2,001,619
Recycled Water	146,400	146,400	146,400	146,400
Other	0	0	0	0
<b>Total</b>	<b>2,117,999</b>	<b>2,158,682</b>	<b>2,099,365</b>	<b>2,001,619</b>
<b>mgd equivalent</b>	<b>4.34</b>	<b>4.42</b>	<b>4.30</b>	<b>4.40</b>

**Demand by Sector**

Residential	1,164,546	1,167,336	1,178,972	1,179,652
Commercial/Industrial	489,755	496,385	496,130	426,610
Other	38,213	36,454	152,075	135,455
Dedicated Irrigation	108,991	118,114	125,393	103,322
Unaccounted for	316,494	340,393	146,795	302,980
<b>Total</b>	<b>2,117,999</b>	<b>2,158,682</b>	<b>2,099,365</b>	<b>2,001,619</b>
<b>mgd equivalent</b>	<b>4.34</b>	<b>4.42</b>	<b>4.30</b>	<b>4.40</b>

Per Capita Use	Actual FY 10-11 (gpcpd)	Actual FY 11-12 (gpcpd)	Actual FY 12-13 (gpcpd)	Actual FY 13-14 (gpcpd)
Residential	79	79	80	80
Gross	143	136	132	135

**Facilities and Distribution**

**Storage Reservoirs**

Designation	Type	Capacity (gallons)	Designation	Type	Capacity (gallons)
Alcazar Tanks	Dual, Circular, Steel	100,000	Hillside Reservoir	Rectangular, Concrete	1,500,000
Donnelly Tanks	Dual, Circular, Steel	100,000	Mills Tank	Circular, Prestressed Concrete	1,071,000
			Skyview Reservoir	Rectangular, Concrete	170,000
<b>Total</b>					<b>2,941,000</b>

**Interties**

Name	No.	Diameter (in.)	Name	No.	Diameter (in.)
CWS – City of San Mateo	2	6	Millbrae	2	6
	1	8		3	8
Hillsborough	4	6		1	10
				2	12

## California Water Service - Bear Gulch District

3525 Alameda De Las Pulgas  
Menlo Park, California 94025

Phone: (650) 561-9709 Fax (650) 561-9723

Web: <http://www.calwater.com>

### Service Area

The Bear Gulch District is located in southern San Mateo County, and serves the communities of Atherton, Portola Valley, Woodside, parts of Menlo Park, parts of unincorporated Redwood City, and adjacent unincorporated portions of San Mateo County including: West Menlo Park, Ladera, North Fair Oaks, and Menlo Oaks.

Cal Water acquired the Los Trancos County Water District in 2005, and acquired both Skyline County Water District and Woodside Mutual Water Company in 2009, incorporating them into the Bear Gulch District. These systems serve rural communities along Highway 35 between Page Mill Road and Highway 92.

### System

**Note:** Skyline system totals are included in the Profile and Summary numbers. Skyline's portion of the total is shown in parentheses.

#### Profile

Area Size	45.3 square miles
Service Population	58,352
Number of Accounts	18,505
Number of SF RWS Connections	8
Connections To SF RWS Mains	BDPL 1 and 2, BDPL 3 and 4, Palo Alto Pipeline, (Bay Crossing 1 and 2)
Avg. Day Demand (mgd)	
Avg. Day Purchases From SF RWS (mgd)	
% Demand Met With SF RWS Supplies	
Maximum Local Water Production (mgd)	6.028 (0.028)
Alternative Supply Sources	Local Surface Water, Local Groundwater-(Skyline system only)
Interties With Other Agencies	Redwood City, Menlo Park, (None)
Local Storage (mg)	11.3 Treated, 215 Untreated
Days of Storage	0.92 - 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. Could increase use of Bear Gulch reservoir in an emergency to meet partial demand.

#### Summary

The Bear Gulch District receives 85% to 95% of its daily supply from the SF RWS, with the balance supplied by surface water runoff from California Water Service Company's own watershed. The water is stored in the 215 million gallon Bear Gulch Reservoir, and treated at the 6 mgd Station 2 Filter Plant before distribution. The Skyline system is not hydraulically connected

to the Bear Gulch system and receives 100% of its supply from the SF RWS. The Woodside Mutual system has been connected to the main Bear Gulch system for several years and has been served by Cal Water since this time.

The distribution systems consist of 57 pressure zones, 77 booster pumps, 35 storage tanks and reservoirs, 2,278 hydrants, and 289 miles of main. District water tanks provide storage for slightly more than 11 mg of potable water.

### Water Supply and Demand

Supply by Source	Actual FY 10-11 (ccf)	Actual FY 11-12 (ccf)	Actual FY 12-13 (ccf)	Actual FY 13-14 (ccf)
San Francisco Water	5,232,104	5,755,767	5,814,767	6,259,793
Local Groundwater	0	0	0	0
Surface Water	562,601	249,082	301,395	0
Recycled Water	0	0	0	0
Other	0	0	0	0
<b>Total</b>	<b>5,794,705</b>	<b>6,004,849</b>	<b>6,116,162</b>	<b>6,259,793</b>
<b>mgd equivalent</b>	<b>11.88</b>	<b>12.31</b>	<b>12.53</b>	<b>12.83</b>

### Demand by Sector

Residential	4,731,054	4,915,720	5,099,148	5,213,264
Commercial/Industrial	571,942	579,629	579,757	553,536
Other	137,649	134,950	156,803	166,553
Dedicated Irrigation	0	0	12,328	9,578
Unaccounted for	354,060	374,550	268,126	316,862
<b>Total</b>	<b>5,794,705</b>	<b>6,004,849</b>	<b>6,116,162</b>	<b>6,259,793</b>
<b>mgd equivalent</b>	<b>11.88</b>	<b>12.31</b>	<b>12.53</b>	<b>12.83</b>

Per Capita Use	Actual FY 10-11 (gpcpd)	Actual FY 11-12 (gpcpd)	Actual FY 12-13 (gpcpd)	Actual FY 13-14 (gpcpd)
Residential	169	174	180	77
Gross	187	213	216	220

**Facilities and Distribution**

**Storage Reservoirs**

Designation	Type	Capacity (gallons)	Designation	Type	Capacity (gallons)
Bear Gulch Reservoir*	Earth	215,000,000	Sta. 028-Tank 1	Steel	200,000
Sta. 002-Tank 1	Steel	250,000	Sta. 029-Tank 1	Fiberglass -Lined Redwood	100,000
Sta. 002-Tank 2	Steel	500,000	Sta. 029-Tank 2	Fiberglass -Lined Redwood	100,000
Sta. 005-Tank 6	Fiberglass -Lined Redwood	100,000 (inactive)	Sta. 029-Tank 3	Steel	150,000
Sta. 005-Tank 8	Steel	250,000	Sta. 030-Tank 1	Steel	1,000,000
Sta. 005-Tank 9	Steel	1,000,000	Sta. 031-Tank 2	Steel	165,000
Sta. 006-Tank 1	Steel	200,000	Sta. 032-Tank 1	Steel	250,000
Sta. 007-Tank 5	Fiberglass -Lined Redwood	100,000	Sta. 033-Tank 1	Steel	10,000
Sta. 015-Tank 1	Fiberglass -Lined Redwood	30,000	Sta. 034-Tank 1	Concrete	50,000
Sta. 016-Res.1	Steel	1,000,000	Sta. 036-Tank 1	Steel	125,000
Sta. 017-Tank 1	Steel	250,000	Sta. 037-Tank 1	Steel	55,000
Sta. 019-Tank 1	Steel	500,000	Sta. 038-Tank 1	Steel	212,000
Sta. 019-Tank 2	Steel	500,000	Sta. 039-Tank 1	Steel	282,000
Sta. 021-Tank 1	Steel	1,000,000	Sta. 041-Tank 1	Steel	189,000
Sta. 021-Tank 2	Steel	1,000,000	Sta. 041-Tank 2	Steel	192,000
Sta. 022-Tank 1	Steel	450,000	Sta. 042-Tank 1	Steel	60,000
Sta. 025-Tank 1	Fiberglass -Lined Redwood	100,000	Sta. 042-Tank 2	Steel	60,000
Sta. 027-Tank 4	Steel	750,000			
<b>Total</b>					226,192,000

\* Reservoir storage capacity has been reduced by 6 feet in compliance with DSOD requirements.

**Surface Water Treatment Facilities**

Designation	Capacity (mgd)
Station 2 Filter Plant	6

**Interties**

Name	No.	Diameter (in.)
Redwood City	2	6
Menlo Park	3	6



## California Water Service - Mid-Peninsula District

341 North Delaware Street  
 San Mateo, California 94401-1727  
 Phone: (650) 558-7800 Fax: (650) 342-6865  
 Web: <http://www.calwater.com>

### Service Area

California Water Service's Mid-Peninsula District is located in central San Mateo County and serves the communities of San Carlos, San Mateo, parts of unincorporated Redwood City, and adjacent unincorporated portions of San Mateo County, including The Highlands and Palomar Park.

### System

#### Profile

Area Size	17 square miles
Service Population	
Number of Accounts	35,680
Number of SF RWS Connections	6
Connections To SF RWS Mains	Bay Crossing 1 and 2, BDPL 1 and 2, Crystal Springs #2, Sunset Pipeline
Avg. Day Demand (mgd)	
Avg. Day Purchases From SF RWS (mgd)	
% Demand Met With SF RWS Supplies	
Maximum Local Water Production (mgd)	0
Alternative Supply Sources	None
Interties With Other Agencies	Mid-Peninsula WD, Redwood City, Belmont, Burlingame, Hillsborough, and Estero MID
Local Storage (mg)	19.9
Days of Storage	1.44 - All zones can meet the 8 hr criteria either separately or by pumping from zones with excess capacity.

### Summary

The Mid-Peninsula District receives all of its water from the SF RWS. Water is delivered to the San Carlos area via 3 SF RWS turnouts located off BDPL 1 and 2. San Mateo is supplied from 5 turnouts located off the Crystal Springs Pipeline #2 and Sunset Supply Lines. The distribution system includes 22 pressure zones in San Carlos, 18 in San Mateo, 62 booster pumps, 38 storage tanks, 2,832 hydrants, and 363 miles of main.

**Water Supply and Demand**

<b>Supply by Source</b>	<b>Actual FY 10-11 (ccf)</b>	<b>Actual FY 11-12 (ccf)</b>	<b>Actual FY 12-13 (ccf)</b>	<b>Actual FY 13-14 (ccf)</b>
San Francisco Water	6,956,546	6,905,680	6,046,107	6,956,723
Local Groundwater	0	0	0	0
Surface Water	0	0	0	0
Recycled Water	0	0	0	0
Other	0	0	0	0
<b>Total</b>	<b>6,956,546</b>	<b>6,905,680</b>	<b>6,046,107</b>	<b>6,956,723</b>
<b>mgd equivalent</b>	<b>14.26</b>	<b>14.15</b>	<b>12.39</b>	<b>14.26</b>

**Demand by Sector**

Residential	4,881,337	4,958,993	4,922,016	4,843,897
Commercial/Industrial	1,243,203	1,278,832	1,274,219	1,295,186
Other	343,253	332,187	401,387	442,095
Unaccounted for	488,753	335,668	-551,515	375,545
<b>Total</b>	<b>6,956,546</b>	<b>6,905,680</b>	<b>6,046,107</b>	<b>6,956,723</b>
<b>mgd equivalent</b>	<b>14.26</b>	<b>14.15</b>	<b>12.39</b>	<b>14.26</b>

<b>Per Capita Use</b>	<b>Actual FY 10-11 (gpcpd)</b>	<b>Actual FY 11-12 (gpcpd)</b>	<b>Actual FY 12-13 (gpcpd)</b>	<b>Actual FY 13-14 (gpcpd)</b>
Residential	79	79	79	77
Gross	112	110	97	110

**Facilities and Distribution****Storage Reservoirs**

<b>Designation</b>	<b>Type</b>	<b>Capacity (gallons)</b>	<b>Designation</b>	<b>Type</b>	<b>Capacity (gallons)</b>
San Mateo			San Mateo		
Sta. 006-Res. 1	Brick	2,290,000	Sta. 027-Tank 1	Steel	2,500,000
Sta. 017-Tank 1	Steel	500,000	Sta. 027-Tank 2	Steel	2,500,000
Sta. 017-Tank 2	Steel	500,000	Sta. 029-Tank 1	Steel	1,000,000
Sta. 017-Tank 3	Steel	500,000	Sta. 030-Tank 1	Steel	500,000
Sta. 023-Tank 1	Steel	1,000,000	Sta. 031-Tank 1	Steel	216,000
Sta. 024-Tank 1	Steel	500,000	Sta. 032-Tank 1	Steel	250,000
Sta. 024-Tank 2	Steel	500,000	Sta. 032-Tank 2	Steel	500,000
Sta. 025-Tank 1	Fiberglass- Lined Redwood	100,000	Sta. 033-Tank 1	Steel	300,000



Designation	Type	Capacity (gallons)
Sta. 025-Tank 2	Steel	250,000
Sta. 025-Tank 3	Steel	250,000

Designation	Type	Capacity (gallons)
Sta. 033-Tank 2	Steel	500,000

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**Storage Reservoirs**

**San Mateo Total** 14,656,000

Designation	Type	Capacity (gallons)
San Carlos		
Sta. 103-Tank 1	Concrete	0
Sta. 106-Tank 2	Steel	0
Sta. 106-Tank 3	Steel	500,000
Sta. 109-Tank 1	Concrete	50,000
Sta. 109-Tank 2	Steel	250,000
Sta. 112-Tank 1	Steel	200,000
Sta. 112-Tank 2	Steel	500,000
Sta. 112-Tank 3	Steel	700,000
Sta. 115-Tank 1	Steel	250,000
Sta. 116-Tank 2	Fiberglass-Lined Redwood	100,000
Sta. 116-Tank 3	Fiberglass-Lined Redwood	100,000

Designation	Type	Capacity (gallons)
San Carlos		
Sta. 118-Tank 1	Steel	200,000
Sta. 118-Tank 2	Steel	750,000
Sta. 119-Tank 1	Steel	400,000
Sta. 120-Tank 1	Steel	500,000
Sta. 122-Tank 1	Fiberglass-Lined Redwood	0
Sta. 122-Tank 2	Fiberglass-Lined Redwood	0
Sta. 123-Tank 3	Steel	250,000
Sta. 123-Tank 4	Steel	425,000
Sta. 124-Tank 1	Steel	78,000
Sta. 125-Tank 1	Fiberglass-Lined Redwood	50,000

**San Carlos Total** 5,303,000

**San Mateo and San Carlos Total** 19,959,000

**Interties**

Name	No.	Diameter (in.)
San Carlos		
Redwood City	3	8, 8, 12
Mid-Peninsula WD	3	8, 8, 8

Name	No.	Diameter (in.)
San Mateo		
Burlingame	3	4, 4, 6
Hillsborough WD	2	6, 6, 6
Mid-Peninsula WD	2	6, 6, 6
Estero MID	1	12



## California Water Service - South San Francisco District

341 North Delaware Street  
 San Mateo, California 94401-1727  
 Phone: (650) 588-7800 Fax: (650) 588-1341  
 Web: <http://www.calwater.com>

### Service Area

The South San Francisco District, located in north San Mateo County, serves South San Francisco, Colma, a small portion of Daly City, and Broadmoor, an unincorporated area located between Colma and Daly City.

### System

#### Profile

Area Size	11.2 square miles
Service Population	
Number of Accounts	16,278
Number of SF RWS Connections	11
Connections To SF RWS Mains	Crystal Springs #2, San Andreas 1, 2, and 3, Sunset Pipeline
Avg. Day Demand (mgd)	
Avg. Day Purchases From SF RWS (mgd)	
% Demand Met With SF RWS Supplies	
Maximum Local Water Production (mgd)	1.37
Alternative Supply Sources	Ground Water Wells
Interties With Other Agencies	Brisbane, San Bruno, Daly City, San Francisco
Local Storage (mg)	8.125
Days of Storage	1.08 - 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. Could increase well output in an emergency to meet partial demand.

### Summary

The South San Francisco District normally receives over 80% of its water from the SF RWS from 11 turnouts off the San Andreas and Crystal Spring pipelines, with the remaining water pumped from 8 local district wells. Cal Water had been participating in a Conjunctive Use Pilot Program during which the South San Francisco District had received 100% of its supply from the SF RWS. However, in 2007 Cal Water began operating its well again. The distribution system includes 15 pressure zones, 8 wells, 25 booster pumps, 14 storage reservoirs, 1,436 hydrants, and 160 miles of main.

**Water Supply and Demand**

Supply by Source	Actual FY 10-11 (ccf)	Actual FY 11-12 (ccf)	Actual FY 12-13 (ccf)	Actual FY 13-14 (ccf)
San Francisco Water	3,479,438	3,440,317	3,351,878	3,144,748
Local Groundwater	251,606	242,098	268,948	471,510
Surface Water	0	0	0	0
Recycled Water	0	0	0	0
Other	0	0	0	0
<b>Total</b>	<b>3,731,044</b>	<b>3,682,415</b>	<b>3,620,826</b>	<b>3,616,258</b>
<b>mgd equivalent</b>	<b>7.65</b>	<b>7.55</b>	<b>7.42</b>	<b>7.41</b>

**Demand by Sector**

Residential	1,520,681	1,491,132	1,478,039	1,432,239
Commercial/Industrial	1,847,381	1,863,982	1,895,035	1,912,861
Other	153,331	139,056	167,479	178,111
Unaccounted for	209,651	188,245	80,273	93,047
<b>Total</b>	<b>3,731,044</b>	<b>3,682,415</b>	<b>3,620,826</b>	<b>3,616,258</b>
<b>mgd equivalent</b>	<b>7.65</b>	<b>7.55</b>	<b>7.42</b>	<b>7.41</b>

Per Capita Use	Actual FY 10-11 (gpcpd)	Actual FY 11-12 (gpcpd)	Actual FY 12-13 (gpcpd)	Actual FY 13-14 (gpcpd)
Residential	53	52	51	49
Gross	130	128	125	123

**Facilities and Distribution**

**Storage Reservoirs**

Designation	Type	Capacity (gallons)	Designation	Type	Capacity (gallons)
Sta. 001-Tank 1	Steel	500,000	Sta. 013-Res.10, Tank 1	Steel	500,000
Sta. 001-Tank 2	Steel	75,000	Sta. 011-Res. 7, Tank 1	Steel	250,000
Sta. 005-Res. 2	Concrete	1,500,000	Sta. 011-Res. 7, Tank 2	Steel	500,000
Sta. 008-Res. 1	Concrete	1,500,000	Sta. 012-Res. 9, Tank 1	Steel	500,000
Sta. 004-Res. 4, Tank 3	Steel	250,000	Sta. 014-Res. 11, Tank 1	Steel	1,000,000
Sta. 004-Res. 4, Tank 4	Steel	250,000	Sta. 015-Res. 12, Tank 1	Steel	1,000,000
Sta. 009-Tank 3	Redwood	50,000	Sta. 101-Tank 1	Steel	250,000
<b>Total</b>					<b>8,125,000</b>

**Wells**

<b>Name</b>	<b>Capacity (gpm)</b>	<b>Status*</b>
Well 02	60	Inactive
Well 14	90	Inactive
Well 15	95	Active
Well 17	200	Inactive
Well 18	340	Inactive
Well 19	160	Active
Well 20	150	Active
Well 21	220	Active
Well 22	295	Active
Well 23	300	Active
<b>Total</b>	1,220	(Active wells only)

**Interties**

<b>Name</b>	<b>No.</b>	<b>Diameter (in.)</b>
Brisbane	1	16
San Bruno	1	6
Daly City	5	2, 4, 4, 8, 10



## Coastside County Water District

766 Main Street  
 Half Moon Bay, California 94019-1995  
 Phone: (650) 726-4405 Fax: (650) 726-5245  
 Web: <http://www.coastsidewater.org>

### Service Area

Coastside County Water District provides water to the City of Half Moon Bay and several unincorporated coastal communities in San Mateo County, including El Granada, Miramar, and Princeton by the Sea (Pillar Point Harbor).

### System

#### Profile

Area Size	14 square miles
Service Population	16,652
Number of Accounts	7,899
Number of SF RWS Connections	2
Connections To SF RWS Mains	Crystal Springs Intake and Stone Dam (Pilarcitos Lake)
Avg. Day Demand (mgd)	2.04
Avg. Day Purchases From SF RWS (mgd)	1.93
% Demand Met With SF RWS Supplies	94.3%
Maximum Local Water Production (mgd)	0.5
Alternative Supply Sources	During a drought, local production is extremely low due to dependency on surface stream flows and a small watershed.
Interties With Other Agencies	None
Local Storage (mg)	8.0
Days of Storage	Approximately 3.0 days

#### Summary

Coastside County Water District has four water sources: Pilarcitos Lake, Crystal Springs Reservoir, Pilarcitos Well Field, and the Denniston (well and surface water) Project. Water purchased from the SF RWS is supplied from two different sources: Pilarcitos Lake and Upper Crystal Springs Reservoir.

The Crystal Springs Water Supply Project, completed in 1994, consists of an intake tunnel under the reservoir, a pump station, and an eight-mile pipeline terminating at the Nunes Water Treatment Plant. Water is taken from Upper Crystal Springs Reservoir, when not available from Pilarcitos Lake or demand is greater than Pilarcitos Lake can supply. Deliveries taken from Upper Crystal Springs Reservoir and Pilarcitos Lake are limited by the capacity of the Nunes Treatment Plant, in addition to the design and capacity of the conveyance system.

The District maintains a distribution system that includes 7 pressure zones, 6 pump stations, 2 water treatment plants, 11 treated storage tanks, 637 hydrants, 10 miles of transmission (supply) pipeline, and 80 miles of distribution pipeline.

**Water Supply and Demand**

Supply by Source	Actual FY 10-11 (ccf)	Actual FY 11-12 (ccf)	Actual FY 12-13 (ccf)	Actual FY 13-14 (ccf)
San Francisco Water	806,110	832,099	885,895	940,214
Local Groundwater	4,278	0	896	2,674
Surface Water	11,671	64,532	109,586	54,372
Recycled Water	0	0	0	0
<b>Total</b>	<b>894,746</b>	<b>896,631</b>	<b>996,377</b>	<b>997,260</b>
<b>mgd equivalent</b>	<b>1.83</b>	<b>1.84</b>	<b>2.04</b>	<b>2.04</b>

**Demand by Sector**

Residential	544,408	534,063	554,030	552,572
Commercial/Industrial	214,891	219,616	211,793	136,934
Other	30,916	37,073	35,408	110,274
Dedicated Irrigation	79,953	61,515	111,778	122,219
Non-Revenue Water	24,578	44,364	83,368	75,260
<b>Total</b>	<b>894,746</b>	<b>896,631</b>	<b>996,377</b>	<b>997,259</b>
<b>mgd equivalent</b>	<b>1.83</b>	<b>1.84</b>	<b>2.04</b>	<b>2.04</b>

Per Capita Use	Actual FY 10-11 (gpcpd)	Actual FY 11-12 (gpcpd)	Actual FY 12-13 (gpcpd)	Actual FY 13-14 (gpcpd)
Residential	55	64	67	68
Gross	90	107	121	123

**Facilities and Distribution**

**Treated Water Storage Reservoirs**

Designation	Type	Capacity (mg)
Denniston	Steel	1.50
El Granada 1	Steel	0.20
El Granada 2	Steel	0.15
El Granada 3	Steel	0.25
Miramar	Steel	1.00
Carter Hill	Steel	0.40
Carter Hill	Steel	0.60
Carter Hill	Steel	1.50
Miramontes	Steel	0.40
Alves	Steel	2.00
Hazen's	Redwood	0.05
<b>Total</b>		<b>8.05</b>



**Surface Water Treatment Facilities**

<b>Designation</b>	<b>Capacity (mgd)</b>
Nunes WTP	4.5
Denniston WTP	1.0
<b>Total</b>	<b>5.5</b>

**Wells**

<b>Name</b>	<b>Capacity (gpm)*</b>	<b>Status</b>
D1	25	Active
D2		Standby
D3	37	Active
D4	35	Active
D5	35	Active
D9	45	Active
P1	40	November 1- March 31
P2		Standby
P3		Standby
P3A		Standby
P4	100	November 1- March 31 Standby
P4A	200	November 1- March 31
P5	65	November 1- March 31
<b>Total</b>	<b>582</b>	

\*Capacity is dependent on stream flows



## City of Daly City

Department of Water and Wastewater  
 153 Lake Merced Boulevard  
 Daly City, California 94015-1097

Phone: (650) 991-8203 Fax: (650) 991-8220

Websites:

Water Department: [http://www.dalycity.org/city\\_services/depts/wwr/water.htm](http://www.dalycity.org/city_services/depts/wwr/water.htm)

Conservation Info: [http://www.ci.daly-city.ca.us/city\\_services/depts/wwr/water\\_conserve.html](http://www.ci.daly-city.ca.us/city_services/depts/wwr/water_conserve.html)

### Service Area

The City of Daly City Department of Water and Wastewater serves the City of Daly City and some unincorporated portions of San Mateo County.

### System

#### Profile

Area Size	7.4 square miles
Service Population	104,462
Number of Accounts	22,545
Number of SF RWS Connections	11
Connections To SF RWS Mains	Crystal Springs #1 and #2, San Andreas #2, and the Sunset Pipeline
Avg. Day Demand (mgd)	6.86
Avg. Day Purchases From SF RWS (mgd)	3.51
% Demand Met With SF RWS Supplies	51.2%
Maximum Local Water Production (mgd)	3.43
Alternative Supply Sources	Local Groundwater, Recycled Water
Interties With Other Agencies	GVMID, Brisbane, Cal Water, North Coast CWD, and Westborough CWD
Local Storage (mg)	24.58
Days of Storage	3.37 – Length of storage based on loss of all sources of supply. Can meet the 8 hr criteria either separately or by pumping from zones with excess capacity. Well water, normally used as a supplemental supply, could meet partial demands in an emergency.

#### Summary

The City of Daly City is supplied by two sources of water: surface water from the SF RWS regional water system, local groundwater from five municipal wells in active operation, and a third source, recycled water produced by the North San Mateo County Sanitation District, a subsidiary of the City of Daly City, that provides turf irrigation to three local golf courses, an athletic field and landscape medians.

Daly City is connected to the SF RWS with eleven turnouts off the Crystal Springs #1 and #2, San Andreas #2 and Sunset Pipelines. Additionally, Daly City has emergency intertie supply connections with Guadalupe Valley Municipal Improvement District, Brisbane Water, California Water Service, North Coast County Water District and Westborough County Water District.

Blending of the SF RWS supply and local groundwater is required because a small portion of the well water exceeds the nitrate MCL. Blending the two supply sources reduces the overall nitrate concentration below the MCL while the well water acts as a buffer for corrosion control.

Daly City entered into a pilot conjunctive use aquifer recharge program in October 2002 with the SFPUC to promote the goal of enhancing regional water resource management. Daly City agreed to accept an increased amount of surplus SF RWS system water at a reduced rate and not pump groundwater from the Westside Basin. This action provided the opportunity to observe the response of the basin from recharge that takes place as a result of the reduction in groundwater pumping.

The Phase One demonstration project continued until November 2003 and assessed the feasibility of a proposed program to increase groundwater levels in the Westside Basin, reduce the potential for seawater intrusion, develop increased SF RWS system yield from the overall surface and groundwater system, and potentially improve conditions at Lake Merced. Initial results from the project showed that groundwater levels increased within the basin. The second phase of the aquifer recharge study began in March 2004 and continued until May 2007. A third phase began May 15, 2009 and ended in March 2011. Currently Daly City and the SFPUC are developing an agreement to implement a long term conjunctive use program based on the analysis of the pilot program.

The City's distribution system includes 12 storage reservoirs, one of which is owned by a private entity, with a combined capacity of 24.58 million gallons that could, in an emergency, supply the annual average daily demand for just over 3.37 days. All reservoirs contain a mixture of SF RWS and groundwater, with the exception of Reservoirs #8 and #5 which are supplied solely by SF RWS connections. During this fiscal year, a two million gallon storage tank was constructed in the Bayshore Area to replace an undersized reservoir to enhance fire flows to the area. The system also contains 18 pumping stations, 23 pressure zones, 2 regulating control valves, 41 pressure-reducing valves, 21 pressure relief valves, 185 miles of main and 1,468 fire hydrants.

Daly City's Tertiary Recycled Water Facility (through its subsidiary, the North San Mateo County Sanitation District) began delivering full Title 22 compliant public contact irrigation water in August 2004 to the Olympic Club. Soon after, water deliveries included the Lake Merced Golf Club and Daly City's Westlake Park. During the 2005 irrigation season, deliveries included the San Francisco Golf Club. A study was conducted to examine the feasibility of adding service to Harding Park Golf Course. The study indicated the project was feasible, and construction is currently underway and is anticipated to be complete by the fall of 2012.

Since its initiation, some 2,386,590 ccf have been delivered for irrigation use, lessening the demand on local groundwater, and to a small degree, offsetting SF RWS system water with the conversion of potable water to recycled water at Harding Park.

**Water Supply and Demand**

<b>Supply by Source</b>	<b>Actual FY 10-11 (ccf)</b>	<b>Actual FY 11-12 (ccf)</b>	<b>Actual FY 12-13 (ccf)</b>	<b>Actual FY 13-14 (ccf)</b>
San Francisco Water	1,405,560	1,811,358	1,955,442	1,713,514
SF RWS Supplemental Water	1,061,951	0	0	0
City of Brisbane - SF RWS	0	0	0	0
Local Groundwater	622,159	1,553,455	1,557,057	1,494,788
Recycled Water	4,064	4	67	141,131
Other (Transfer to North Coast)	0	0	0	0
<b>Total</b>	<b>3,093,734</b>	<b>3,364,817</b>	<b>3,512,566</b>	<b>3,349,433</b>
<b>mgd equivalent</b>	<b>6.34</b>	<b>6.89</b>	<b>7.20</b>	<b>6.86</b>

Recycled water reflected in this table shows the amount of recycled water that offsets SF RWS water. For example, total recycled water distributed in 08/09 equals 244,492 ccf.

**Demand by Sector**

Residential	2,461,182	2,441,327	2,450,378	2,401,406
Commercial/Industrial	373,022	388,425	366,905	381,955
Other	156,218	112,215	133,174	123,297
Dedicated Irrigation	62,006	83,170	179,064	238,144
Unaccounted for	41,306	339,680	383,045	204,631
<b>Total</b>	<b>3,093,734</b>	<b>3,364,817</b>	<b>3,512,566</b>	<b>3,346,447</b>
<b>mgd equivalent</b>	<b>6.34</b>	<b>6.89</b>	<b>7.20</b>	<b>6.86</b>

<b>Per Capita Use</b>	<b>Actual FY 10-11 (gpcpd)</b>	<b>Actual FY 11-12 (gpcpd)</b>	<b>Actual FY 12-13 (gpcpd)</b>	<b>Actual FY 13-14 (gpcpd)</b>
Residential	50	49	49	47
Gross (Less Recycled Water)	62	68	70	63

**Facilities and Distribution****Storage Reservoirs**

<b>Designation</b>	<b>Type</b>	<b>Capacity (gallons)</b>	<b>Designation</b>	<b>Type</b>	<b>Capacity (gallons)</b>
Reservoir 1	Concrete	703,000	Reservoir 5B	Concrete	10,400,000
Reservoir 2	Concrete	2,303,000	Reservoir 6	Concrete	1,495,000
Reservoir 2B	Concrete	2,000,000	Reservoir 6B	Concrete	1,451,000
Reservoir 3	Concrete	978,000	Reservoir 7	Steel	1,487,000
Reservoir 4	Concrete	1,370,000	Reservoir 8	Steel	630,000
Reservoir 5	Concrete	1,481,000	F Bay (Private)	Steel	285,000
			<b>Total</b>		<b>24,583,000</b>

**Wells**

<b>Name</b>	<b>Capacity (gpm)</b>	<b>Status</b>
Westlake	410	Active
Well 4	426	Active
Jeff Well	340	Active
Vale	693	Active
A St.	524	Inactive
JS Well	550	Active
<b>Total</b>	<b>2,943</b>	

**Interties**

<b>Name</b>	<b>No.</b>	<b>Diameter (in.)</b>
GVMID	1	12
Brisbane	2	8, 8
CWS	5	2, 4, 4, 8, 10
North Coast	2	6, 8
Westborough	1	12

## City of East Palo Alto

2415 University Ave.

East Palo Alto, CA 94303

Web: <http://www.ci.east-palo-alto.ca.us>

American Water Enterprises

2415 University Avenue, 2nd Floor

East Palo Alto, CA 94303

Phone: (650) 322-2083 Fax: (650) 325-5038

### Service Area

Located in southeast San Mateo County, the City of East Palo Alto is a residential community with some commercial and industrial development.

### System

#### Profile

Area Size	2.5 square miles
Service Population	25,927
Number of Accounts	3,853 1.86
Number of SF RWS Connections	3
Connections To SF RWS Mains	BDPL 1 and 2
Avg. Day Demand (mgd)	1.49
Avg. Day Purchases From SF RWS (mgd)	1.48
% Demand Met With SF RWS Supplies	99.3%
Maximum Local Water Production (mgd)	0
Alternative Supply Sources	None
Interties With Other Agencies	Palo Alto, Menlo Park, O'Connor Tract Water Coop, Palo Alto Park Mutual - only to 2 Mutual companies and not in EPA's direction
Local Storage (mg)	0
Days of Storage	0 – No storage: cannot sustain a loss of water independent of its interties. 3.6 mg of storage identified but approval/funding has yet to be secured.

#### Summary

The City of East Palo Alto receives all of its potable water supply from three SF RWS turnouts off BDPL 1 and 2. The third 72" pipe line is also in place, but not hooked up. All three turnouts are located in the northern portion of the district, and water is distributed directly to all of the customers within the district's one pressure zone. The City's water utility is operated and managed by a private contractor, American Water Enterprises. East Palo Alto sells a small amount of (SF RWS-supplied) water to Menlo Park under an existing agreement. Recently, Menlo Park is isolating its Distribution lines from that of East Palo Alto by cutting off and capping lines from the existing system.

There are no storage facilities or alternate potable water supply sources within the City. The City has one emergency well currently not certified for potable use.

**Water Supply and Demand**

<b>Supply by Source</b>	<b>Actual FY 10-11 (ccf)</b>	<b>Actual FY 11-12 (ccf)</b>	<b>Actual FY 12-13 (ccf)</b>	<b>Actual FY 13-14 (ccf)</b>
San Francisco Water	917,414	951,828	1,012,810	723,320
Resale SF RWWS (Menlo Park)	-54,132	-44,166	-4,557	-4,280
Local Groundwater	0	0	2,686	1,000
Recycled Water	0	0	0	0
Other	0	0	0	0
<b>Total</b>	<b>863,282</b>	<b>907,662</b>	<b>1,010,939</b>	<b>720,040</b>
<b>mgd equivalent</b>	<b>1.77</b>	<b>1.86</b>	<b>2.07</b>	<b>1.48</b>

**Demand by Sector**

Residential	662,347	671,437	653,028	645,589
Commercial/Industrial	153,249	181,956	153,188	141,482
Other	20,586	0	19,402	24,366
Unaccounted for	27,100	54,269	185,321	-91,397
<b>Total</b>	<b>863,282</b>	<b>907,662</b>	<b>1,010,939</b>	<b>811,437</b>
<b>mgd equivalent</b>	<b>1.77</b>	<b>1.86</b>	<b>2.07</b>	<b>1.48</b>

<b>Per Capita Use</b>	<b>Actual FY 10-11 (gpcpd)</b>	<b>Actual FY 11-12 (gpcpd)</b>	<b>Actual FY 12-13 (gpcpd)</b>	<b>Actual FY 13-14 (gpcpd)</b>
Residential	52	55	52	51
Gross	68	74	80	57

**Facilities and Distribution****Wells**

<b>Name</b>	<b>Capacity (gpm)</b>	<b>Status</b>
EPACWD Well	0.2	Standby
<b>Total</b>	<b>0.2</b>	

**Interties**

<b>Name</b>	<b>No.</b>	<b>Diameter (in.)</b>
Palo Alto	1	6
O'Connor	1	6
Menlo Park	> 1	6



## Estero Municipal Improvement District

610 Foster City Boulevard

Foster City, California 94404-2299

Phone (650) 286-3270 Fax (650) 345-4626

Web: <http://www.fostercity.org/Services/water/index.cfm>

### Service Area

Estero Municipal Improvement District is located in central San Mateo County immediately adjacent to the Bay, and serves the City of Foster City and a part of the City of San Mateo, an area predominantly residential with a broad cross-section of commercial and light industrial development.

### System

#### Profile

Area Size	4 square miles
Service Population	37,000
Number of Accounts	8,076
Number of SF RWS Connections	1
Connections To SF RWS Mains	Crystal Springs #2
Avg. Day Demand (mgd)	3.98
Avg. Day Purchases From SF RWS (mgd)	3.98
% Demand Met With SF RWS Supplies	100.0%
Maximum Local Water Production (mgd)	0
Alternative Supply Sources	None
Interties With Other Agencies	CWS - San Mateo, Mid-Peninsula Water District
Local Storage (mg)	20
Days of Storage	2.0 - EMID can meet the 8 hr. criteria on maximum day

#### Summary

Estero Municipal Improvement District's sole source of supply is SF RWS through a turnout located on Crystal Springs Road in the City of San Mateo. Water from the turnout fills storage tanks located in the northwest corner of the district.

The distribution system consists of 2 water pressure reducing stations, 4 storage tanks, 1 pump station, and 1 pressure zone.

EMID has connections in the southern half of the district to CWS - San Mateo and the Mid-Peninsula Water District for emergency water supply.

**Water Supply and Demand**

<b>Supply by Source</b>	<b>Actual FY 10-11 (ccf)</b>	<b>Actual FY 11-12 (ccf)</b>	<b>Actual FY 12-13 (ccf)</b>	<b>Actual FY 13-14 (ccf)</b>
San Francisco Water	2,274,588	1,966,984	2,000,497	1,942,333
Local Groundwater	0	0	0	0
Surface Water	0	0	0	0
Recycled Water	0	0	0	0
Other	0	0	0	0
<b>Total</b>	<b>2,274,588</b>	<b>1,966,984</b>	<b>2,000,497</b>	<b>1,942,333</b>
<b>mgd equivalent</b>	<b>4.66</b>	<b>4.03</b>	<b>4.10</b>	<b>3.98</b>

**Demand by Sector**

Residential	1,395,754	1,366,887	1,372,204	1,306,850
Commercial/Industrial	250,039	260,004	241,330	238,343
Other	12,590	11,687	51,058	56,839
Dedicated Irrigation	535,361	478,538	518,825	545,676
Unaccounted for	80,844	-150,132	-182,920	-205,375
<b>Total</b>	<b>2,274,588</b>	<b>1,966,984</b>	<b>2,000,497</b>	<b>1,942,333</b>
<b>mgd equivalent</b>	<b>4.66</b>	<b>4.03</b>	<b>4.10</b>	<b>3.98</b>

<b>Per Capita Use</b>	<b>Actual FY 10-11 (gpcpd)</b>	<b>Actual FY 11-12 (gpcpd)</b>	<b>Actual FY 12-13 (gpcpd)</b>	<b>Actual FY 13-14 (gpcpd)</b>
Residential	79	78	77	72
Gross	129	112	112	108

**Facilities and Distribution****Storage Reservoirs**

<b>Designation</b>	<b>Type</b>	<b>Capacity (mg)</b>
Storage Tank 1	Steel	4
Storage Tank 2	Steel	4
Storage Tank 3	Steel	4
Storage Tank 4	Conc.	8
<b>Total</b>		<b>20</b>

**Interties**

<b>Name</b>	<b>No.</b>	<b>Diameter (in.)</b>
CWS - San Mateo	1	12
Mid-Peninsula	1	12

## City of Hayward

Public Works Department - Utilities Division  
 777 B Street  
 Hayward, California 94541  
 Phone: (510) 583-4727 Fax: (510) 583-3610  
 Web: www.hayward-ca.gov

### 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	151,037
Number of Accounts	33,450
Number of SF RWS Connections	4 (two at each turnout)
Connections To SF RWS Mains	BDPL 1 and 2
Avg. Day Demand (mgd)	15.17
Avg. Day Purchases From SF RWS (mgd)	15.17
% Demand Met With SF RWS Supplies	100.0%
Maximum Local Water Production (mgd)	0
Alternative Supply Sources	Local Groundwater (Emergency Use Only)
Interties With Other Agencies	ACWD, EBMUD
Local Storage (mg)	29.4
Days of Storage	1.7 - 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 SF RWS 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 SF RWS 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 10-11 (ccf)	Actual FY 11-12 (ccf)	Actual FY 12-13 (ccf)	Actual FY 13-14 (ccf)
San Francisco Water	8,308,740	7,610,980	7,552,956	7,402,067
Local Groundwater	0	0	0	0
Recycled Water	0	0	0	0
Other - EBMUD & ACWD (Temporary supplies)	0	0	0	0
<b>Total</b>	<b>8,308,740</b>	<b>7,610,980</b>	<b>7,552,956</b>	<b>7,402,067</b>
<b>mgd equivalent</b>	<b>17.03</b>	<b>15.60</b>	<b>15.48</b>	<b>15.17</b>

### Demand by Sector

Residential	4,283,746	4,273,560	4,213,609	4,157,114
Commercial/Industrial	1,588,060	1,532,401	1,491,773	1,630,978
Other	410,912	379,585	475,964	383,686
Dedicated Irrigation	936,250	954,253	997,089	1,012,601
Unaccounted for*	1,089,772	471,181	374,521	217,688
<b>Total</b>	<b>8,308,740</b>	<b>7,610,980</b>	<b>7,552,956</b>	<b>7,402,067</b>
<b>mgd equivalent</b>	<b>17.03</b>	<b>15.60</b>	<b>15.48</b>	<b>15.17</b>

Per Capita Use	Actual FY 10-11 (gpcpd)	Actual FY 11-12 (gpcpd)	Actual FY 12-13 (gpcpd)	Actual FY 13-14 (gpcpd)
Residential	60	60	58	56
Gross	117	106	104	100

\*Staff believes that unaccounted for water is not representative of true system losses, but rather reflects in part aging meter stock. A water loss study was recently completed, and correction actions are underway including replacement of under-performing meters and comprehensive leak detection (as reflected in reduced FY11-12 unaccounted for amount).

### 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	2,200,000
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
			<b>Total</b>		<b>29,350,000</b>

**Wells**

<b>Name</b>	<b>Capacity (mgd)</b>	<b>Status</b>
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)
<b>Total</b>	13.6	

**Interties**

<b>Name</b>	<b>No.</b>	<b>Diameter (in.)</b>
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 SF RWS and EBMUD.



## Town of Hillsborough

Water Department

1600 Floribunda Avenue

Hillsborough, California 94010-6498

Phone: (650) 375-7402 Fax: (650) 375-7444

Web: <http://www.hillsborough.net/depts/pw/water/default.asp>

### Service Area

The Town of Hillsborough, located in central San Mateo County, is a single family residential community zoned for residential estates. The Town's service area includes the Town of Hillsborough and portions of unincorporated San Mateo County.

### System

#### Profile

Area Size	6.25 square miles
Service Population	10,860
Number of Accounts	4,267
Number of SF RWS Connections	9 Turnouts, 12 meters
Connections To SF RWS Mains	Crystal Springs #2, Sunset Pipeline
Avg. Day Demand (mgd)	3.28
Avg. Day Purchases From SF RWS (mgd)	3.28
% Demand Met With SF RWS Supplies	100.0%
Maximum Local Water Production (mgd)	0
Alternative Supply Sources	None
Interties With Other Agencies	Burlingame, CWS - San Mateo
Local Storage (mg)	8.29 (max capacity)
Days of Storage	2.2 - All zones can meet the 8 hr criteria either separately or by pumping from zones with excess capacity.

#### Summary

The Town of Hillsborough purchases all of its water from the SF RWS via 12 meters in 9 turnouts located off San Francisco's Sunset and Crystal Springs #2 supply lines, which provide potable water to customers in 5 pressure zones.

The Town owns and operates its own water utility. The distribution system consists of 16 pressure zones, 14 pump stations, 18 storage tanks, and 107 miles of mains.

There are no wells or alternate sources within the district.

**Water Supply and Demand**

<b>Supply by Source <sup>1</sup></b>	<b>Actual FY 10-11 (ccf)</b>	<b>Actual FY 11-12 (ccf)</b>	<b>Actual FY 12-13 (ccf)</b>	<b>Actual FY 13-14 (ccf)</b>
San Francisco Water	1,461,935	1,587,057	1,609,532	1,599,812
Resale SF RWS (CWS)	0	- 6,200	0	0
Local Groundwater	0	0	0	0
Surface Water	0	0	0	0
Recycled Water	0	0	0	0
Other	0	0	0	0
<b>Total</b>	<b>1,461,935</b>	<b>1,580,857</b>	<b>1,609,532</b>	<b>1,599,812</b>
<b>mgd equivalent</b>	<b>3.00</b>	<b>3.24</b>	<b>3.30</b>	<b>3.28</b>

**Demand by Sector <sup>2</sup>**

Residential	1,383,901	1,349,520	1,417,783	1,459,092
Commercial/Industrial	3,485	5,421	7,000	0
Institutional/Other	10,019	10,455	13,517	23,485
Dedicated Irrigation	20,038	20,878	5,563	22,319
Unaccounted for	44,493	194,583	155,669	94,916
<b>Total</b>	<b>1,461,935</b>	<b>1,580,857</b>	<b>1,609,532</b>	<b>1,599,812</b>
<b>mgd equivalent</b>	<b>3.00</b>	<b>3.24</b>	<b>3.30</b>	<b>3.28</b>

<b>Per Capita Use</b>	<b>Actual FY 10-11 (gpcpd)</b>	<b>Actual FY 11-12 (gpcpd)</b>	<b>Actual FY 12-13 (gpcpd)</b>	<b>Actual FY 13-14 (gpcpd)</b>
Residential	262	255	268	275
Gross	277	300	304	302

**1** SFPUC billing is based on monthly meter readings.

**2** Hillsborough retail sales are based on bi-monthly reading of customers' meters.

**Note:** Some minor population and water supply errors were discovered in FYs 08-10, and have not been corrected here. These errors are not significant, and corrected data can be provided by the Town of Hillsborough on request.

**Facilities and Distribution****Storage Reservoirs**

<b>Designation</b>	<b>Type</b>	<b>Capacity (gallons)</b>
Forest View Tank 1	Steel	675,000
Forest View Tank 2	Steel	280,000
Skyfarm II Tank 1	Steel	65,000
Skyfarm II Tank 2	Steel	65,000
Skyfarm III Tank 1	Steel	700,000
Skyfarm III Tank 2	Steel	700,000
Crocker Reservoir	Concrete Lined	375,000
Darrell Tank 1	Steel	500,000



<b>Designation</b>	<b>Type</b>	<b>Capacity (gallons)</b>
Darrell Tank 2	Steel	500,000
Darrell Tank 3	Steel	1,000,000
El Arroyo Tank 1	Steel	516,000
El Arroyo Tank 2	Steel	516,000
Major Hayes Tank	Steel	250,000
Vista Tank	Steel	350,000
Marlborough Tank 1	Steel	250,000
Marlborough Tank 2	Steel	350,000
Tournament Tank 1	Steel	600,000
Tournament Tank 2	Steel	600,000
<b>Total</b>		<b>8,292,000</b>

**Interties**

<b>Name</b>	<b>No.</b>	<b>Diameter (in.)</b>
CWS -San Mateo	4	2*, 6, 6, 8
Burlingame	3	6, 8, 10

\*2-inch galvanized steel pipe is considered non-functional as an intertie.



## City of Menlo Park

Menlo Park Municipal Water Department

701 Laurel Street

Menlo Park, California 94025-3483

Phone: (650) 330-6750 E-mail: [water@menlopark.org](mailto:water@menlopark.org)

Web: <http://www.menlopark.org/131/water-district>

### Service Area

The City of Menlo Park, a balanced mix of residential, commercial and industrial users, is located in southern San Mateo County.

### System

#### Profile

Area Size	4 square miles
Service Population	16,066
Number of Accounts	4,200
Number of SF RWS Connections	5
Connections To SF RWS Mains	3 connections to BDPL 1 and 2 via Ivy Drive at Hill, Chilco and Madera; 1 connection to BDPL via Sharon Park Drive at Lassen; 1 connection to the Palo Alto Pipeline
Avg. Day Demand (mgd)	3.54
Avg. Day Purchases From SF RWS (mgd)	3.54
% Demand Met With SF RWS Supplies	99.7%
Maximum Local Water Production (mgd)	0
Alternative Supply Sources	None
Interties With Other Agencies	CWS - Bear Gulch District, Redwood City, East Palo Alto, O'Conner Tract Water Coop, Palo Alto Park Mutual Water Co.
Local Storage (mg)	5.5 mg
Days of Storage	0.65

#### Summary

The City of Menlo Park purchases most of its water directly from the SF RWS, and the remainder from East Palo Alto, whose source is also SF RWS. One SF RWS turnout serves the Sharon Heights area along Sand Hill Road and Highway 280, and four turnouts serve portions of the City north and east of El Camino Real near Highway 101 and Willow Road. The distribution system includes one pump station, two storage reservoirs, and 59 miles of mains.

The two reservoirs supply the Sharon Heights area. No storage exists in the areas supplied north and east of El Camino Real. However, this area has emergency interties with California Water Service (CWS), Redwood City, O'Connor Tract Water Coop, East Palo Alto and Palo Alto Park Mutual Water Co. CWS is the primary emergency source of water for Menlo Park.

**Water Supply and Demand**

<b>Supply by Source</b>	<b>Actual FY 10-11 (ccf)</b>	<b>Actual FY 11-12 (ccf)</b>	<b>Actual FY 12-13 (ccf)</b>	<b>Actual FY 13-14 (ccf)</b>
San Francisco Water	1,482,232	1,571,933	1,580,278	1,724,965
Resale SF RWS Purchase	51,556	49,812	4,358	4,434
Other	0	0	0	0
<b>Total</b>	<b>1,533,788</b>	<b>1,621,745</b>	<b>1,584,636</b>	<b>1,729,399</b>
<b>mgd equivalent</b>	<b>3.14</b>	<b>3.32</b>	<b>3.25</b>	<b>3.54</b>

**Demand by Sector**

Residential	679,844	684,431	687,547	669,505
Commercial/Industrial	517,973	562,070	511,026	605,384
Other	67,525	86,337	81,601	82,272
Dedicated Irrigation	163,080	105,176	181,100	221,816
Unaccounted for	105,366	183,731	123,362	150,422
<b>Total</b>	<b>1,533,788</b>	<b>1,621,745</b>	<b>1,584,636</b>	<b>1,729,399</b>
<b>mgd equivalent</b>	<b>3.14</b>	<b>3.32</b>	<b>3.25</b>	<b>3.54</b>

<b>Per Capita Use</b>	<b>Actual FY 10-11 (gpcpd)</b>	<b>Actual FY 11-12 (gpcpd)</b>	<b>Actual FY 12-13 (gpcpd)</b>	<b>Actual FY 13-14 (gpcpd)</b>
Residential	98	99	99	85
Gross	221	234	229	221

**Facilities and Distribution****Storage Reservoirs**

<b>Designation</b>	<b>Type</b>	<b>Capacity (mg)</b>
Reservoir 1	Storage	2.0
Reservoir 2	Storage	3.5
<b>Total</b>		<b>5.5</b>

**Interties**

<b>Name</b>	<b>No.</b>	<b>Diameter (in.)</b>
CWS – Bear Gulch	3	6, 8, 10
East Palo Alto	1	12
O'Conner Tract	1	6
Redwood City	1	6
Palo Alto Park	1	6

## Mid-Peninsula Water District

Three Dairy Lane

Belmont, California 94002-0129

Phone: (650) 591-8941 Fax: (650) 591-4998

Web: <http://www.midpeninsulawater.org>

### Service Area

The Mid-Peninsula Water District, located in central San Mateo County, serves the city of Belmont, portions of San Carlos, and unincorporated county areas. The predominant land use is residential.

### System

#### Profile

Area Size	5 square miles
Service Population	26,270
Number of Accounts	7,965
Number of SF RWS Connections	2
Connections To SF RWS Mains	BDPL 1 and 2, Crystal Springs Bypass Tunnel
Avg. Day Demand (mgd)	2.89
Avg. Day Purchases From SF RWS (mgd)	2.89
% Demand Met With SF RWS Supplies	100.0%
Maximum Local Water Production (mgd)	0
Alternative Supply Sources	None
Interties With Other Agencies	Estero MID, Redwood City, CWS - San Mateo, CWS - San Carlos
Local Storage (mg)	12.5
Days of Storage	3.6 - All zones can meet the 8 hr criteria either separately or by pumping from zones with excess capacity.

#### Summary

The District's sole source of potable water is delivered via two SF RWS turnouts. Local water storage is not feasible, and groundwater of adequate quantity and quality is not available.

The system contains 9 pressure zones. The easternmost zone, east of El Camino Real, is gravity fed from the SF RWS connection. Water is pumped to storage reservoirs at higher elevations to feed the remaining pressure zones. The District operates and maintains a complex distribution system that includes 20 pumps, 11 water tanks, 13 regulating valves, 813 hydrants, and 105 miles of water mains.

The District also has redundancy built into the entire distribution system, enabling either of the two SF RWS transmission mains to supply water to all customers of the District. The District has the ability to transfer water between pressure zones in either a pump-up or flow-down mode in emergency conditions.

**Water Supply and Demand**

<b>Supply by Source</b>	<b>Actual FY 10-11 (ccf)</b>	<b>Actual FY 11-12 (ccf)</b>	<b>Actual FY 12-13 (ccf)</b>	<b>Actual FY 13-14 (ccf)</b>
San Francisco Water	1,404,933	1,437,360	1,453,047	1,408,109
Local Groundwater	0	0	0	0
Surface Water	0	0	0	0
Recycled Water	0	0	0	0
Other	0	0	0	0
<b>Total</b>	<b>1,404,933</b>	<b>1,437,360</b>	<b>1,453,047</b>	<b>1,408,109</b>
<b>mgd equivalent</b>	<b>2.88</b>	<b>2.95</b>	<b>2.98</b>	<b>2.89</b>

**Demand by Sector**

Residential	852,584	1,016,212	1,004,087	993,343
Commercial/Industrial	207,261	182,696	259,889	258,172
Other	70,228	70,228	86,613	83,953
Unaccounted for	274,860	168,224	102,458	72,641
<b>Total</b>	<b>1,404,933</b>	<b>1,437,360</b>	<b>1,453,047</b>	<b>1,408,109</b>
<b>mgd equivalent</b>	<b>2.88</b>	<b>2.95</b>	<b>2.98</b>	<b>2.89</b>

<b>Per Capita Use</b>	<b>Actual FY 10-11 (gpcpd)</b>	<b>Actual FY 11-12 (gpcpd)</b>	<b>Actual FY 12-13 (gpcpd)</b>	<b>Actual FY 13-14 (gpcpd)</b>
Residential	67	79	78	77
Gross	110	112	113	110

**Facilities and Distribution****Storage Reservoirs**

<b>Designation</b>	<b>Type</b>	<b>Capacity (mg)</b>	<b>Designation</b>	<b>Type</b>	<b>Capacity (mg)</b>
Storage Tank 1	Steel	2.50	Storage Tank 7	Steel	0.79
Storage Tank 2	Steel	2.50	Storage Tank 8	Steel	0.79
Storage Tank 3	Steel	1.00	Storage Tank 9	Steel	0.10
Storage Tank 4	Steel	1.50	Storage Tank 10	Steel	0.10
Storage Tank 5	Steel	1.00	Storage Tank 11	Steel	1.50
Storage Tank 6	Steel	0.72			
<b>Total</b>					<b>12.50</b>

**Interties**

<b>Name</b>	<b>No.</b>	<b>Diameter (in.)</b>	<b>Name</b>	<b>No.</b>	<b>Diameter (in.)</b>
Estero	1	12	CWS - San Carlos	2	8
Redwood City	1	12	CWS - San Mateo	3	8

## City of Millbrae

Public Works - Engineering  
 621 Magnolia Avenue  
 Millbrae, California 94030

Phone: (650) 259-2339 Fax: (650) 697-8158

Web: <http://www.ci.millbrae.ca.us>

### Service Area

The City of Millbrae is a residential community with a small commercial business sector located in north San Mateo County. Millbrae owns and operates its water utility, with a service area that includes Capuchino High School in San Bruno.

### System

#### Profile

Area Size	3.2 square miles
Service Population	21,532
Number of Accounts	6,538
Number of SF RWS Connections	5
Connections To SF RWS Mains	Murchison, Greenhills, Park, 195 ECR, Helen
Avg. Day Demand (mgd)	2.35
Avg. Day Purchases From SF RWS (mgd)	2.33
% Demand Met With SF RWS Supplies	99.0%
Maximum Local Water Production (mgd)	0
Alternative Supply Sources	None
Interties With Other Agencies	Burlingame
Local Storage (mg)	2.36
Days of Storage	0.8 – 3 of 4 (Zones 1 - 3) zones receive water from Harry Tracy Plant. Meets 8 hr. coverage for City's 3 upper zones. Planned projects will provide interties among zones to provide storage to Zone 4. These projects are pending completion of a Master Plan.

#### Summary

The City of Millbrae's only source of water is the SF RWS, delivered through 5 turnouts. Hetch Hetchy water purchased from the SF RWS meets all drinking water standards and is treated with fluoride.

Four storage tanks near the Harry Tracy WTP are filled early in the morning and are slowly drawn throughout the day to satisfy customer demand. Water filtered by the Harry Tracy Treatment Plant (San Andreas Reservoir) supplies water in the higher elevations, while the Crystal Springs #2 and #3 deliver water to the lower elevations.

The distribution system includes 11 pressure zones, 6 pumps (3 each at 2 stations), 5 storage tanks (only 4 are in operation), 568 hydrants, and 69.7 miles of water mains.

**Water Supply and Demand**

<b>Supply by Source</b>	<b>Actual FY 10-11 (ccf)</b>	<b>Actual FY 11-12 (ccf)</b>	<b>Actual FY 12-13 (ccf)</b>	<b>Actual FY 13-14 (ccf)</b>
San Francisco Water	1,075,971	1,034,254	1,113,147	1,134,741
Local Groundwater	0	0	0	0
Surface Water	0	0	0	0
Recycled Water	12,000	12,000	12,000	12,000
Other	0	0	0	0
<b>Total</b>	<b>1,087,971</b>	<b>1,046,254</b>	<b>1,125,147</b>	<b>1,146,741</b>
<b>mgd equivalent</b>	<b>2.23</b>	<b>2.14</b>	<b>2.31</b>	<b>2.35</b>

**Demand by Sector**

Residential	722,239	720,074	737,836	731,183
Commercial/Industrial	174,237	155,280	160,643	154,759
Other	52,766	50,359	54,788	65,130
Dedicated Irrigation	80,918	65,551	88,356	84,344
Unaccounted for	57,811	54,990	83,524	111,325
<b>Total</b>	<b>1,087,971</b>	<b>1,046,254</b>	<b>1,125,147</b>	<b>1,146,741</b>
<b>mgd equivalent</b>	<b>2.23</b>	<b>2.14</b>	<b>2.31</b>	<b>2.35</b>

<b>Per Capita Use</b>	<b>Actual FY 10-11 (gpcpd)</b>	<b>Actual FY 11-12 (gpcpd)</b>	<b>Actual FY 12-13 (gpcpd)</b>	<b>Actual FY 13-14 (gpcpd)</b>
Residential	69	69	70	70
Gross (less recycled water)	104	98	106	108

**Facilities and Distribution**

**Storage Reservoirs**

<b>Designation</b>	<b>Type</b>	<b>Capacity (mg)</b>
Storage Tank 1	Steel	1.00
Storage Tank 2	Steel	0.50
Storage Tank 3	Steel	0.50
Storage Tank 4	Steel	0.11
Storage Tank 5	Steel	0.25
<b>Total</b>		<b>2.36</b>

**Interties**

<b>Name</b>	<b>No.</b>	<b>Diameter (in.)</b>
Burlingame	8	6, 8, 10, 12



## City of Milpitas

Public Works Department, Engineering Division  
 455 East Calaveras Boulevard  
 Milpitas, California 95035-5411

Phone: (408) 586-3300 Fax: (408) 586-3305

Web: <http://www.ci.milpitas.ca.gov/>

### Service Area

The City of Milpitas is located in northeastern Santa Clara County.

### System

#### Profile

Area Size	13.6 square miles
Service Population	69,783
Number of Accounts	16,637
Number of SF RWS Connections	4 - Sunnyhills (Washington), Calaveras, Main (Hammond), and Gibraltar Tank (intertie).
Connections To SF RWS Mains	BDPL 3 and 4
Avg. Day Demand (mgd)	10.06
Avg. Day Purchases From SF RWS (mgd)	6.55
% Demand Met With SF RWS Supplies	65.1%
Maximum Local Water Production (mgd)	0
Alternative Supply Sources	Santa Clara Valley Water District (SCVWD), South Bay Water Recycling (SBWR), Pinewood Well
Interties With Other Agencies	Alameda County Water District (ACWD), San Jose Water Company (SJWC)
Local Storage (mg)	16.3
Days of Storage	1.4 - All 6 zones can meet the 8 hr criteria, ranging from 9 hours to 31 hours at maximum day.

#### Summary

The City of Milpitas owns and operates its own water utility. The northern and eastern areas are supplied primarily by the SF RWS, while the remaining areas are supplied by SCVWD. With some exceptions, residents receive SF RWS water, while industrial and commercial areas receive SCVWD water. The City does not blend SF RWS and SCVWD waters under normal operations, but they can be blended during emergency situations.

The City's distribution system consists of 5 turnouts, 9 pressure regulator valves, 4 emergency pressure regulator valves, 5 pumping stations, 5 storage tanks, and 1 well.

The City has emergency interties with ACWD to the north and SJWC to the south. The City has one well, Pinewood Well, which can provide water to one SF RWS-supplied zone during emergencies. Another well is under construction to supplement water supply during emergencies.

Since 1997, the City has been receiving non-potable recycled water from South Bay Water Recycling (SBWR) Program.

**Water Supply and Demand**

Supply by Source	Actual FY 10-11 (ccf)	Actual FY 11-12 (ccf)	Actual FY 12-13 (ccf)	Actual FY 13-14 (ccf)
San Francisco Water	2,954,096	3,060,055	3,115,000	3,194,000
Santa Clara Valley WD	1,535,019	1,496,482	1,443,000	1,335,500
Recycled Water	346,360	380,870	417,000	379,000
Other	0	0	0	0
<b>Total</b>	<b>4,835,475</b>	<b>4,937,407</b>	<b>4,975,000</b>	<b>4,908,500</b>
<b>mgd equivalent</b>	<b>9.91</b>	<b>10.12</b>	<b>10.20</b>	<b>9.19</b>

**Demand by Sector**

Residential	2,077,097	2,123,434	2,173,280	2,103,513
Commercial/Industrial	1,182,529	1,248,205	1,329,861	1,166,300
Other	146,290	139,195	150,055	131,419
Dedicated Irrigation	914,238	973,301	1,034,743	558,749
Unaccounted for	515,321	453,272	287,061	526,843
<b>Total</b>	<b>4,835,475</b>	<b>4,937,407</b>	<b>4,975,000</b>	<b>4,908,028</b>
<b>mgd equivalent</b>	<b>9.91</b>	<b>10.12</b>	<b>10.20</b>	<b>9.19</b>

Per Capita Use	Actual FY 10-11 (gpcpd)	Actual FY 11-12 (gpcpd)	Actual FY 12-13 (gpcpd)	Actual FY 13-14 (gpcpd)
Residential	60	61	66	62
Gross (Less Recycled Water)	140	132	138	133

**Facilities and Distribution****Storage Reservoirs**

Designation	Type	Capacity (mg)
SFPUC – Gibraltar	Prestressed Concrete	5.00
SFPUC – Ayer	Prestressed Concrete	5.60
SFPUC – Tularcitos	Steel	0.31
SFPUC – Minnis	Steel	0.35
SCVWD – Gibraltar	Prestressed Concrete	5.00
<b>Total</b>		<b>16.26</b>

**Wells**

Name	Capacity (mgd)	Status
Pinewood*	1.7	Active
<b>Total</b>	<b>1.7</b>	

\*Emergency use

**Interties**

Name	No.	Diameter (in.)
SCVWD*	41	6 - 24
SJWC	1	6
ACWD	2	8

\*Emergency and Isolation Valves included.

## City of Mountain View

Public Services Division  
231 North Whisman Road  
Mountain View, California 94043

Phone: (650) 903-6329 Fax: (650) 962-8079

Web: <http://www.mountainview.gov>

### Service Area

The City of Mountain View is located in north Santa Clara County on the Peninsula, between the cities of Sunnyvale and Palo Alto.

### System

#### Profile

Area Size	12 square miles
Service Population	75,280
Number of Accounts	17,781
Number of SF RWS Connections	2 turnouts/ 6 meters
Connections To SF RWS Mains	BDPL 3 and 4
Avg. Day Demand (mgd)	10.79
Avg. Day Purchases From SF RWS (mgd)	8.96
% Demand Met With SF RWS Supplies	83.1%
Maximum Local Water Production (mgd)	2.4
Alternative Supply Sources	Local Groundwater, SCVWD, Recycled
Interties With Other Agencies	Palo Alto, Sunnyvale, SCVWD, CWS
Local Storage (mg)	17.0
Days of Storage	Note: With loss of SF RWS supply only, City can utilize wells, SCVWD or storage within zones or excess capacity from other zones to meet 8-hour outage or Minimum Winter Demand.

### Summary

The City of Mountain View primary water supplier is the SF RWS. The Santa Clara Valley Water District supplies treated water and Mountain View supplies groundwater. California Water Service also provides water to a small part of Mountain View. Mountain View system distributes water to three pressure zones via 158 miles of main, with inter-zonal connections that allow water to flow from one adjacent zone to another. Mountain View has four water storage facilities.

Mountain View has 2 active wells (six currently out of service). The wells influence each other, resulting in varied maximum and simultaneous flows. They have not been operated at their maximum due to various maintenance and operational issues.

**Water Supply and Demand**

<b>Supply by Source</b>	<b>Actual FY 10-11 (ccf)</b>	<b>Actual FY 11-12 (ccf)</b>	<b>Actual FY 12-13 (ccf)</b>	<b>Actual FY 13-14 (ccf)</b>
San Francisco Water	4,162,626	4,346,523	4,389,474	4,373,263
Santa Clara Valley WD	449,211	490,793	546,917	529,137
Local Groundwater	217,273	158,302	134,195	209,370
Recycled Water	196,565	236,492	164,156	151,603
<b>Total</b>	<b>5,025,675</b>	<b>5,232,110</b>	<b>5,234,742</b>	<b>5,263,373</b>
<b>mgd equivalent</b>	<b>10.30</b>	<b>10.72</b>	<b>10.73</b>	<b>10.79</b>

**Demand by Sector**

Residential	2,673,190	2,683,868	2,715,045	2,752,779
Commercial/Industrial	944,984	959,579	948,869	901,854
Other	1,893	3,576	6,156	7,445
Dedicated Irrigation	1,194,849	1,158,060	1,295,694	1,256,417
Unaccounted for*	210,759	427,027	268,978	344,878
<b>Total</b>	<b>5,025,675</b>	<b>5,232,110</b>	<b>5,234,742</b>	<b>5,263,373</b>
<b>mgd equivalent</b>	<b>10.30</b>	<b>10.72</b>	<b>10.73</b>	<b>10.79</b>

<b>Per Capita Use</b>	<b>Actual FY 10-11 (gpcpd)</b>	<b>Actual FY 11-12 (gpcpd)</b>	<b>Actual FY 12-13 (gpcpd)</b>	<b>Actual FY 13-14 (gpcpd)</b>
Residential	73	75	74	75
Gross	137	139	140	139

**Facilities and Distribution**

**Storage Reservoirs**

<b>Designation</b>	<b>Type</b>	<b>Capacity (gallons)</b>	<b>Designation</b>	<b>Type</b>	<b>Capacity (gallons)</b>
Miramonte	Concrete	700,000	Whisman	Concrete	6,000,000
Miramonte	Concrete	2,300,000	Graham	Concrete	8,000,000
<b>Total</b>					<b>17,000,000</b>

**Wells**

<b>Name</b>	<b>Capacity (mgd)</b>	<b>Status</b>	<b>Name</b>	<b>Capacity (mgd)</b>	<b>Status</b>
Well 10	1.2	OOS	Well 21	1.1	Active
Well 17	0.2	OOS	Well 22	1.1	Active
Well 19	0.7	Active	Well 23*	1.3	Active
Well 20	1.5	Active	<b>Total</b>	<b>7.1</b>	

**Interties**

<b>Name</b>	<b>No.</b>	<b>Diameter (in.)</b>
Palo Alto	2	6
Sunnyvale	3	6, 8, 8
SCVWD	1	24



## North Coast County Water District

2400 Francisco Boulevard  
Pacifica, California 94044-6039

Phone: (650) 355-3462 Fax: (650) 355-0735

Web: <http://www.nccwd.com>

### Service Area

The North Coast County Water District serves the northern coastal areas of San Mateo County. The District's boundaries are nearly the same as those of the City of Pacifica.

### System

#### Profile

Area Size	13.6 square miles
Service Population	39,000
Number of Accounts	12,361
Number of SF RWS Connections	1
Connections To SF RWS Mains	San Andreas 3
Avg. Day Demand (mgd)	2.85
Avg. Day Purchases From SF RWS (mgd)	2.84
% Demand Met With SF RWS Supplies	99.6%
Maximum Local Water Production (mgd)	0
Alternative Supply Sources	Local Surface Water
Interties With Other Agencies	San Bruno, Daly City, Westborough CWD
Local Storage (mg)	23.35
Days of Storage	7.12 – 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. San Pedro Creek could meet limited demand in an emergency.

#### Summary

100% of NCCWD water comes from one SF RWS connection at San Andreas. There is a main pump station located on the site of the Harry Tracy WTP, which pumps all the water through a 4 mile pipeline into the Milagra Ridge storage tank located in the Central District area.

The northern portion of the system is supplied by pumping water from the Milagra Ridge Tank site to the Christian Hill tank, then distributing it to the customers via gravity. The southern District's distribution hub, at Royce Tank Site, is supplied via gravity by the Milagra Ridge Tank. Overall, the system is divided into 34 pressure zones, each separated by pressure reducing valves. At average daily demands, there is enough storage to supply the District with water for up to 7.2 days at typical demands and storage. A small amount of water is conveyed to San Bruno annually as a public customer.

The District's only other water source is the San Pedro Creek. Water rights to the creek are limited to 500 gpm between December 1 and April 30, and to 210 gpm during May. This water requires filtering and minimal treatment at the San Pedro WTP adjacent to the creek before distribution. The San Pedro facility is on line and filters creek water, as allowed by the District's water rights, for non-potable uses.

**Water Supply and Demand**

<b>Supply by Source</b>	<b>Actual FY 10-11 (ccf)</b>	<b>Actual FY 11-12 (ccf)</b>	<b>Actual FY 12-13 (ccf)</b>	<b>Actual FY 13-14 (ccf)</b>
San Francisco Water	1,585,572	1,380,360	1,192,485	1,387,578
Westborough CWD (SF RWS)	0	0	0	0
Recycled Water	0	0	0	5,294
Other	0	0	0	0
<b>Total</b>	<b>1,585,572</b>	<b>1,380,360</b>	<b>1,192,485</b>	<b>1,392,872</b>
<b>mgd equivalent</b>	<b>3.25</b>	<b>2.83</b>	<b>2.44</b>	<b>2.85</b>

**Demand by Sector**

Residential	1,313,305	1,027,665	1,226,220	1,031,692
Commercial/Industrial	117,043	94,585	113,605	96,158
Other	92,445	67,375	9,344	82,973
Dedicated Irrigation	34,797	26,807	45,037	35,833
Unaccounted for	27,982	163,928	-201,721	146,216
<b>Total</b>	<b>1,585,572</b>	<b>1,380,360</b>	<b>1,192,485</b>	<b>1,380,360</b>
<b>mgd equivalent</b>	<b>3.25</b>	<b>2.83</b>	<b>2.44</b>	<b>2.85</b>

<b>Per Capita Use</b>	<b>Actual FY 10-11 (gpcpd)</b>	<b>Actual FY 11-12 (gpcpd)</b>	<b>Actual FY 12-13 (gpcpd)</b>	<b>Actual FY 13-14 (gpcpd)</b>
Residential	67	53	64	54
Gross	81	71	63	73

**Facilities and Distribution****Potable Storage Reservoirs**

<b>Designation</b>	<b>Capacity (gallons)</b>
13 Reservoirs	23,550,000
<b>Total</b>	<b>23,550,000</b>

**Water Treatment Facilities:****Surface Water**

<b>Designation</b>	<b>Capacity (mgd)</b>
San Pedro WTP	0.5

**Recycled Water**

<b>Designation</b>	<b>Capacity (mgd)</b>
Central District	0.3

**Interties**

<b>Name</b>	<b>No.</b>	<b>Diameter (in.)</b>
San Bruno	2	10
Daly City	2	6, 8

<b>Name</b>	<b>No.</b>	<b>Diameter (in.)</b>
Westborough	3	8, 10, 10



## City of Palo Alto

250 Hamilton Avenue

Palo Alto, California 94301-2593

Phone: (650) 329-2119 Fax: (650) 326-1507

Web: <http://www.cityofpaloalto.org>

### Service Area

Located in north Santa Clara County, Palo Alto is the only municipality in California that operates six utilities - electric and fiber, water, gas, waste water collection and treatment, storm drainage and refuse. The utility's service area includes approximately 40 residential accounts (about 100 people) outside of the City's boundaries (in Los Altos Hills and Portola Valley).

### System

#### Profile

Area Size	26 square miles
Service Population	66,642
Number of Accounts	20,036
Number of SF RWS Connections	5
Connections To SF RWS Mains	Palo Alto Pipeline, BDPL 3 and 4
Avg. Day Demand (mgd)	12.26
Avg. Day Purchases From SF RWS (mgd)	11.48
% Demand Met With SF RWS Supplies	93.6%
Maximum Local Water Production (mgd)	15.05 – 8 emergency wells
Alternative Supply Sources	Recycled Water, Local Groundwater
Interties With Other Agencies	East Palo Alto CWD, Mountain View, Purissima Hills WD, Stanford University
Local Storage (mg)	13
Days of Storage	1.13 – Currently, Palo Alto water system can independently supply 8 hr under maximum day demands for emergency use

#### Summary

The City of Palo Alto's primary source of water is the SF RWS, via 5 turnouts, 3 off the Palo Alto Pipeline and 2 off BDPLs 3 and 4, that in most years provide 100% of Palo Alto's potable water supply. Palo Alto has 9 pressure zones, 7 storage tanks, 5 booster pump stations in the Foothills which pump water to the higher elevation pressure zones, and 2 booster pump stations to support pressure zones 1 and 2.

To improve the capacity of the local water distribution system to provide water during an emergency event, Palo Alto initiated the Emergency Water Supply and Storage Project. The Project included the rehabilitation of 5 existing wells, construction of 3 new wells, and construction of a new 2.5 million gallon emergency water storage reservoir. Palo Alto now has adequate storage and pumping capacity to provide emergency back up during an interruption of SF RWS service. The wells may also be available to meet limited dry year requirements.

Palo Alto replaces potable water with recycled water to irrigate a golf course and a city park, to fill a duck pond, and some uses at the water quality control plant. Recycled water use that does

not replace potable water includes the Emily Renzel Marsh enhancement project and additional process uses at the water quality control plant.

### Water Supply and Demand

Supply by Source	Actual FY 10-11 (ccf)	Actual FY 11-12 (ccf)	Actual FY 12-13 (ccf)	Actual FY 13-14 (ccf)
San Francisco Water	5,440,236	5,561,559	5,547,735	5,600,519
Local Groundwater	0	0	0	0
Recycled Water	370,946	386,902	203,026	381,066
Other	0	0	0	0
<b>Total</b>	<b>5,811,182</b>	<b>5,948,461</b>	<b>5,750,761</b>	<b>5,981,585</b>
<b>mgd equivalent</b>	<b>11.91</b>	<b>12.19</b>	<b>11.79</b>	<b>12.26</b>

### Demand by Sector

Residential	3,131,309	3,202,280	3,183,737	3,146,731
Commercial/Industrial	1,154,560	1,108,469	1,077,104	1,023,362
Other	660,210	663,238	315,539	538,971
Dedicated Irrigation	417,066	475,788	540,230	718,281
Unaccounted for	448,037	498,686	634,151	554,240
<b>Total</b>	<b>5,811,182</b>	<b>5,948,461</b>	<b>5,750,761</b>	<b>5,981,585</b>
<b>mgd equivalent</b>	<b>11.91</b>	<b>12.19</b>	<b>11.79</b>	<b>12.26</b>

Per Capita Use	Actual FY 10-11 (gpcpd)	Actual FY 11-12 (gpcpd)	Actual FY 12-13 (gpcpd)	Actual FY 13-14 (gpcpd)
Residential	100	102	98	97
Gross (Less Recycled Water)	185	177	171	172

### Facilities and Distribution

#### Storage Reservoirs

Designation	Type	Capacity (gallons)	Designation	Type	Capacity (gallons)
Mayfield	Concrete	4,000,000	El Camino	Steel	2,500,000
Boronda	Concrete	1,500,000	Montebello	Steel	1,500,000
Corte Madera	Steel	1,500,000	Park	Steel	1,000,000
Dahl	Steel	1,000,000	<b>Total</b>		<b>13,000,000</b>

**Wells**

<b>Name</b>	<b>Capacity (mgd)</b>	<b>Status</b>
Eleanor Pardee	1.44	New – Operational
Library	0.86	New – Operational
El Camino Park	1.44	New – Operational
Fernando	1.01	Existing – Operational
Hale	2.09	Existing – Operational
Matadero	1.01	Existing – Operational
Peers	2.45	Existing – Operational
Rinconada	4.75	Existing – Operational

**Total** 15.05

**Note:** All wells are designated Emergency/Standby at this time.

**Interties**

<b>Name</b>	<b>No.</b>	<b>Diameter (in.)</b>
East Palo Alto	1	6
Mountain View	2	6, 6
Stanford	2	8, 8
Purissima Hills WD	2	8, 12



## Purissima Hills Water District

26375 Fremont Road

Los Altos Hills, California 94022-2699

Phone: (650) 948-1217 Fax: (650) 948-0961

### Service Area

The Purissima Hills Water District provides service to two-thirds of the Town of Los Altos Hills, a rural community adjacent to the City of Palo Alto, and unincorporated county land on the southern boundary. The District serves predominantly single-family homes on minimum one-acre lots. The largest customer is Foothill College.

### System

#### Profile

Area Size	4,600 acres
Service Population	6,142
Number of Accounts	2,184
Number of SF RWS Connections	2
Connections To SF RWS Mains	BDPL 3 and 4
Avg. Day Demand (mgd)	2.01
Avg. Day Purchases From SF RWS (mgd)	2.01
% Demand Met With SF RWS Supplies	100.0%
Maximum Local Water Production (mgd)	0
Alternative Supply Sources	None
Interties With Other Agencies	CWS - Los Altos, City of Palo Alto
Local Storage (mg)	9.88
Days of Storage	All 4 distribution zones can meet the 8 hr criteria either separately or by pumping from zones with excess capacity

#### Summary

Purissima Hills Water District receives 100% of its water supply from two San Francisco/Hetch Hetchy turnouts located along the Foothill Expressway on the northern edge of the District. The SF RWS supply is gravity-fed through 18" transmission mains to the Deer Creek Pump Station and McCann Tanks at 250 feet above sea level.

All services within the District are gravity fed from tanks in the respective zones. The distribution system consists of 4 pressure zones, 11 tanks, 5 pumping stations, 15 pumps, and 80 miles of pipe.

**Water Supply and Demand**

<b>Supply by Source</b>	<b>Actual FY 10-11 (ccf)</b>	<b>Actual FY 11-12 (ccf)</b>	<b>Actual FY 12-13 (ccf)</b>	<b>Actual FY 13-14 (ccf)</b>
San Francisco Water	839,360	899,221	972,733	982,100
Recycled Water	0	0	0	0
Other	0	0	0	0
<b>Total</b>	<b>839,360</b>	<b>899,221</b>	<b>972,733</b>	<b>982,100</b>
<b>Mgd equivalent</b>	<b>1.72</b>	<b>1.84</b>	<b>1.84</b>	<b>2.01</b>

**Demand by Sector**

Residential	785,453	800,026	868,180	885,184
Commercial/Industrial	0	0	0	0
Other	54,309	46,231	71,493	59,871
Dedicated Irrigation	5,306	6,375	4,629	5,339
Unaccounted for	-5,708	46,589	28,431	31,706
<b>Total</b>	<b>839,360</b>	<b>899,221</b>	<b>972,733</b>	<b>982,100</b>
<b>Mgd equivalent</b>	<b>1.72</b>	<b>1.84</b>	<b>1.84</b>	<b>2.01</b>

<b>Per Capita Use</b>	<b>Actual FY 10-11 (gpcpd)</b>	<b>Actual FY 11-12 (gpcpd)</b>	<b>Actual FY 12-13 (gpcpd)</b>	<b>Actual FY 13-14 (gpcpd)</b>
Residential	263	268	290	295
Gross	281	301	325	328

**Facilities and Distribution****Storage Reservoirs**

<b>Designation</b>	<b>Type</b>	<b>Capacity (gallons)</b>	<b>Designation</b>	<b>Type</b>	<b>Capacity (gallons)</b>
MC Tank 1	Steel	130,000	A Tank 1	Redwood	200,000
MC Tank 2	Steel	1,000,000	A Tank 2	Cor-ten Steel	250,000
LC Tank 1	Steel	100,000	N Tank 1	Cor-ten Steel	200,000
LC Tank 2	Cor-ten Steel	900,000	N Tank 2	Cor-ten Steel	3,000,000
HH Tank	Concrete	3,100,000	PM Tank	Cor-ten Steel	500,000
E Tank	Steel	500,000	<b>Total</b>		<b>9,880,000</b>

**Interties**

<b>Name</b>	<b>No.</b>	<b>Diameter (in.)</b>
CWS - Los Altos	2	8, 12
City of Palo Alto	2	12, 12

## City of Redwood City

Community Development Department

1400 Broadway

Redwood City, California 94063-2505

Phone: (650) 780-7464 Fax: (650) 780-7445

Web: <http://www.redwoodcity.org/publicworks/water/index.html>

### Service Area

Redwood City is located in south San Mateo County. The City of Redwood City owns and operates its own water utility, and supplies water beyond its City limits, to portions of the Town of Woodside, the City of San Carlos, and unincorporated areas of the County.

### System

#### Profile

Area Size	35 square miles
Service Population	86,427
Number of Accounts	23,448
Number of SF RWS Connections	13
Connections To SF RWS Mains	Bay Crossing 1 and 2, BDPL 1 and 2, BDPL 3 and 4
Avg. Day Demand (mgd)	9.70
Avg. Day Purchases From SF RWS (mgd)	9.03
% Demand Met With SF RWS Supplies	93.2%
Maximum Local Water Production (mgd)	0
Alternative Supply Sources	Recycled water for landscape irrigation
Interties With Other Agencies	CWS -Bear Gulch, CWS - Mid- Peninsula, Mid-Peninsula WD, Menlo Park
Local Storage (mg)	21.24
Days of Storage	2.2 days storage. - 4 of 14 pressure zones have no storage facilities. The 4 zones without storage have emergency interties with other water agencies.

#### Summary

The City of Redwood City purchases all of its potable water from the SF RWS via 13 active meter connections. 7 of the turnouts are located off Bay Division Pipelines 1 and 2, 1 turnout is off BDPL 1, 2, and 3, and 5 turnouts are off BDPL 3 and 4.

The distribution system consists of 14 separate pressure zones, 10 pump stations and 264.5 miles of water mains. Pumps are located at 7 of the 11 storage sites. In addition, there are permanent generators at the Glenloch, Peninsula 1, and Peninsula 2 tanks, and 2 portable generators on stand-by.

The City has a total of 11 emergency interties with California Water Service of San Carlos, Mid-Peninsula Water District, and the City of Menlo Park.

**Water Supply and Demand**

<b>Supply by Source</b>	<b>Actual FY 10-11 (ccf)</b>	<b>Actual FY 11-12 (ccf)</b>	<b>Actual FY 12-13 (ccf)</b>	<b>Actual FY 13-14 (ccf)</b>
San Francisco Water	4,462,944	4,420,594	4,747,255	4,407,672
Recycled Water	271,394	298,491	310,053	323,213
Other	0	0	0	0
<b>Total</b>	<b>4,734,338</b>	<b>4,719,085</b>	<b>5,057,308</b>	<b>4,730,885</b>
<b>mgd equivalent</b>	<b>9.70</b>	<b>9.67</b>	<b>10.36</b>	<b>9.70</b>

**Demand by Sector**

Residential	3,069,860	3,106,595	3,078,065	3,092,119
Commercial/Industrial	814,880	1,036,811	816,841	824,233
Other	68,262	87,977	82,373	86,470
Dedicated Irrigation	580,333	595,713	601,418	681,737
Unaccounted for	201,003	-108,011	478,611	46,326
<b>Total</b>	<b>4,734,338</b>	<b>4,719,085</b>	<b>5,057,308</b>	<b>4,730,885</b>
<b>mgd equivalent</b>	<b>9.70</b>	<b>9.67</b>	<b>10.36</b>	<b>9.70</b>

<b>Per Capita Use</b>	<b>Actual FY 10-11 (gpcpd)</b>	<b>Actual FY 11-12 (gpcpd)</b>	<b>Actual FY 12-13 (gpcpd)</b>	<b>Actual FY 13-14 (gpcpd)</b>
Residential	74	73	73	73
Gross (Less Recycled Water)	115	105	112	105

**Facilities and Distribution****Storage Reservoirs**

<b>Designation</b>	<b>Type</b>	<b>Capacity (mg)</b>	<b>Designation</b>	<b>Type</b>	<b>Capacity (mg)</b>
Easter Cross	Steel	0.10	Lakeview	Steel	1.00
Easter Bowl	Steel	1.20	Main City Zone	Steel	8.00
Glenloch	Steel	0.09	Main City Zone	Steel	3.75
Wilmington South	Steel	0.25	Redwood Shores	Steel	3.20
Cambridge	Steel	0.65	Redwood Shores	Steel	3.00
<b>Total</b>					<b>21.24</b>

**Interties**

<b>Name</b>	<b>No.</b>	<b>Diameter (in.)</b>	<b>Name</b>	<b>No.</b>	<b>Diameter (in.)</b>
BCWD	1	12	Douglas / Fair Oaks	1	6
BCWD and CWS	1	12	CWS – Bear Gulch	2	6
Oakwood / El Camino	1	6	Bransten / Industrial	1	8
MPW	1	6	San Carlos	2	6, Fire Hose
Alameda / Edgewood	1	Fire Hose	Eaton	1	Fire Hose



## City of San Bruno

Public Works - Water Division  
567 El Camino Real  
San Bruno, California 94066

Phone: (650) 616-7065 Fax: (650) 794-1443

Web: [http://www.sanbruno.ca.gov/city\\_services/public\\_works/utilities/water.html](http://www.sanbruno.ca.gov/city_services/public_works/utilities/water.html)

### Service Area

The City of San Bruno is located in north San Mateo County. San Bruno is a residential community with regional commercial and light industrial development. The Public Works Water Division's service area includes the City of San Bruno and unincorporated areas of the County.

### System

#### Profile

Area Size	6.1 square miles
Service Population	43,798
Number of Accounts	11,474
Number of SF RWS Connections	5
Connections To SF RWS Mains	Crystal Springs # 2 and #3, San Andreas 1, 2, and 3, Sunset Pipeline
Avg. Day Demand (mgd)	3.58
Avg. Day Purchases From SF RWS (mgd)	1.60
% Demand Met With SF RWS Supplies	44.6%
Maximum Local Water Production (mgd)	1.90
Alternative Supply Sources	Local Groundwater
Interties With Other Agencies	North Coast CWD, CWS - South San Francisco
Local Storage (mg)	8.3
Days of Storage	2.5 - 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 could meet partial demand in an emergency.

### Summary

The City of San Bruno receives its water through 5 San Francisco Public Utilities Commission turnouts and from 5 deep-water wells. The City also purchases water from the North Coast County Water District. The Public Works Water Division maintains a distribution system that includes 13 pressure zones, 21 pumps, 8 water tanks, 900 hydrants, and 100 miles of mains.

SF RWS water is filtered by the Harry Tracy plant (San Andreas Reservoir) and supplied to upper elevation areas of the community. Crystal Springs Supply Lines #2 or #3 deliver to the lower elevations. The groundwater is blended with water from SF RWS; the combined water supply meets all MCLs.

**Water Supply and Demand**

<b>Supply by Source</b>	<b>Actual FY 10-11 (ccf)</b>	<b>Actual FY 11-12 (ccf)</b>	<b>Actual FY 12-13 (ccf)</b>	<b>Actual FY 13-14 (ccf)</b>
San Francisco Water	754,219	1,017,925	946,503	779,582
Local Groundwater	995,130	730,179	782,464	948,253
Surface Water	0	0	0	0
Recycled Water	0	0	0	0
Other (North Coast CWD)	21,691	21,903	23,128	19,887
<b>Total</b>	<b>1,771,040</b>	<b>1,770,007</b>	<b>1,752,095</b>	<b>1,747,722</b>
<b>mgd equivalent</b>	<b>3.63</b>	<b>3.63</b>	<b>3.59</b>	<b>3.58</b>

**Demand by Sector**

Residential	1,208,430	1,200,059	1,220,423	1,169,527
Commercial/Industrial	322,180	331,601	359,328	325,988
Other	78,314	73,321	81,418	98,441
Unaccounted for	162,116	165,026	90,926	153,766
<b>Total</b>	<b>1,771,040</b>	<b>1,770,007</b>	<b>1,752,095</b>	<b>1,747,722</b>
<b>mgd equivalent</b>	<b>3.63</b>	<b>3.63</b>	<b>3.59</b>	<b>3.58</b>

<b>Per Capita Use</b>	<b>Actual FY 10-11 (gpcpd)</b>	<b>Actual FY 11-12 (gpcpd)</b>	<b>Actual FY 12-13 (gpcpd)</b>	<b>Actual FY 13-14 (gpcpd)</b>
Residential	60	59	61	55
Gross	88	88	87	82

**Facilities and Distribution****Storage Reservoirs**

<b>Designation</b>	<b>Type</b>	<b>Capacity (gallons)</b>
Storage Tank 1	Steel	2,500,000
Storage Tank 3	Concrete	2,000,000
Storage Tank 4	Steel	1,000,000
Storage Tank 6	Steel	400,000
Storage Tank 6A	Steel	1,000,000
Storage Tank 7	Steel	400,000
Storage Tank 9	Steel	500,000
Storage Tank 10	Steel	500,000
<b>Total</b>		<b>8,300,000</b>

**Wells**

<b>Name</b>	<b>Capacity (mgd)</b>	<b>Status</b>
Well 15**	0.26	Active
Well 16**	0.72	Active
Well 17*	0.40	Active
Well 18**	0.29	Active
Well 20**	0.85	Active
<b>Total</b>	<b>2.52</b>	

**Interties**

<b>Name</b>	<b>No.</b>	<b>Diameter (in.)</b>
North Coast	2	21
CWS	1	8



## City of San Jose

### San Jose Municipal Water System - North

3025 Tuers Road

San Jose, California 95121

Phone: (408) 277-4218 Fax: (408) 277-4954

Web: <http://www.sjmuniwater.com>

#### Service Area

Located in north central Santa Clara County, the North San Jose/Alviso service area is predominantly industrial with some residential and commercial land use.

#### System

##### Profile

Area Size	5.3 square miles
Service Population	15,286
Number of Accounts	2,100
Number of SF RWS Connections	2
Connections To SF RWS Mains	BDPL 3 and 4
Avg. Day Demand (mgd)	5.49 Potable and Recycled
Avg. Day Purchases From SF RWS (mgd)	4.66
% Demand Met With SF RWS Supplies	84.9%
Maximum Local Water Production (mgd)	0
Alternative Supply Sources	Ground Water and Recycled Water
Interties With Other Agencies	City of Santa Clara
Local Storage (mg)	6.0
Days of Storage	1.3 – Length of storage based on loss of all sources of supply. Can meet the required 8 hr. coverage with storage alone. Well water, normally used supplementally, could supply peak demand in an emergency

#### Summary

The North San Jose/Alviso water service area in the City of San Jose is supplied primarily by the SF RWS through two turnouts off the Bay Division Pipelines 3 and 4.

The SF RWS turnouts are equipped with emergency connections for a portable chlorinator.

The North San Jose/Alviso service area has two storage tanks and four wells capable of meeting average and peak flow demands that supplement the SF RWS supply during high flow periods. An intertie with the City of Santa Clara can be activated within 2 hours.

Other communities in the San Jose Municipal Water System are supplied primarily by water purchased from the Santa Clara Valley Water District, with supplemental supplies coming from local groundwater.

**Water Supply and Demand**

Supply by Source	Actual FY 10-11 (ccf)	Actual FY 11-12 (ccf)	Actual FY 12-13 (ccf)	Actual FY 13-14 (ccf)
San Francisco Water	2,035,953	2,172,405	2,173,663	2,272,262
Local Groundwater	0	0	0	0
Recycled Water	203,939	184,243	180,548	404,401
Other	0	0	0	0
<b>Total</b>	<b>2,239,892</b>	<b>2,356,648</b>	<b>2,354,211</b>	<b>2,676,663</b>
<b>mgd equivalent</b>	<b>4.59</b>	<b>4.83</b>	<b>4.82</b>	<b>5.49</b>

**Demand by Sector**

Residential	512,812	518,433	537,869	686,611
Commercial/Industrial	968,424	1,024,970	976,696	1,168,458
Other	65,557	57,770	68,588	56,133
Dedicated Irrigation	658,438	708,909	738,567	777,405
Unaccounted for	34,661	46,566	32,491	-11,944
<b>Total</b>	<b>2,239,892</b>	<b>2,356,648</b>	<b>2,354,211</b>	<b>2,676,663</b>
<b>mgd equivalent</b>	<b>4.59</b>	<b>4.83</b>	<b>4.82</b>	<b>5.49</b>

Per Capita Use	Actual FY 10-11 (gpcpd)	Actual FY 11-12 (gpcpd)	Actual FY 12-13 (gpcpd)	Actual FY 13-14 (gpcpd)
Residential	72	72	73	92
Gross (Less Recycled Water)	285	304	293	305

**Facilities and Distribution**

**Storage Reservoirs**

Designation	Type	Capacity (mg)
Storage Tank 1	Steel	3
Storage Tank 2	Steel	3
<b>Total</b>		<b>6</b>

**Wells**

Name	Capacity (mgd)	Status	Name	Capacity (mgd)	Status
Well 1	2.0	Standby	Well 3	2.0	Standby
Well 2	2.0	Active	Well 4	2.0	Active
<b>Total</b>	<b>8.0</b>				

**Interties**

Name	No.	Diameter (in.)
Santa Clara	1	8

## City of Santa Clara

1500 Warburton Avenue  
 Santa Clara, California 95050-3792  
 Phone: (408) 615-2000 Fax: (408) 247-0784  
 Web: <http://santaclaraca.gov/waterandsewer>

### 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	118,459
Number of Accounts	25,529
Number of SF RWS Connections	2
Connections To SF RWS Mains	BDPL 3 and 4
Avg. Day Demand (mgd)	22.05
Avg. Day Purchases From SF RWS (mgd)	2.08
% Demand Met With SF RWS Supplies	9.4%
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)	26.8
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 SF RWS and SCVWD. Two SF RWS 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 Plan is available for landscape irrigation and certain industrial uses, distributed within Santa Clara by about 20 miles of pipeline.

**Water Supply and Demand**

<b>Supply by Source</b>	<b>Actual FY 10-11 (ccf)</b>	<b>Actual FY 11-12 (ccf)</b>	<b>Actual FY 12-13 (ccf)</b>	<b>Actual FY 13-14 (ccf)</b>
San Francisco Water	1,055,675	910,029	1,085,829	1,012,567
Santa Clara Valley WD	1,942,379	1,974,197	1,864,441	1,870,035
Local Groundwater	6,065,354	6,343,450	6,340,376	6,287,164
Recycled Water	1,133,659	1,347,819	1,404,586	1,587,740
Other	0	0	0	0
<b>Total</b>	<b>10,197,067</b>	<b>10,575,495</b>	<b>10,695,232</b>	<b>10,757,506</b>
<b>mgd equivalent</b>	<b>20.90</b>	<b>21.67</b>	<b>21.92</b>	<b>22.05</b>

**Demand by Sector**

Residential	4,421,763	4,729,713	4,782,059	4,730,865
Commercial/Industrial	4,134,909	4,336,681	4,272,833	4,377,915
Other	498,376	1,001,974	1,065,318	1,156,381
Dedicated Irrigation	645,506	0	0	0
Unaccounted for	496,513	507,127	575,022	492,344
<b>Total</b>	<b>10,197,067</b>	<b>10,575,495</b>	<b>10,695,232</b>	<b>10,757,943</b>
<b>mgd equivalent</b>	<b>20.90</b>	<b>21.67</b>	<b>21.92</b>	<b>22.05</b>

<b>Per Capita Use</b>	<b>Actual FY 10-11 (ccf)</b>	<b>Actual FY 11-12 (ccf)</b>	<b>Actual FY 12-13 (ccf)</b>	<b>Actual FY 13-14 (ccf)</b>
Residential	76	82	82	82
Gross (Less Recycled Water)	176	160	160	159

**Facilities and Distribution****Storage Reservoirs**

<b>Designation</b>	<b>Type</b>	<b>Capacity (mg)</b>
Northside Tank 1	Steel	4.7
Northside Tank 2	Steel	4.7
Serra	Steel	13.2
Downtown	Steel	4.2
<b>Total</b>		<b>26.8</b>



**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



## Stanford University

327 Bonair Siding

Stanford, California 94305-7272

Phone: (650) 723-9747 Fax: (650) 723-3191

Web: [http://lbre.stanford.edu/sem/Environmental\\_WaterEfficiency](http://lbre.stanford.edu/sem/Environmental_WaterEfficiency)

### 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	29,635 *
Number of Accounts	n/a
Number of SF RWS Connections	3
Connections To SF RWS Mains	BDPL 3 and 4, 1 turnout off Palo Alto pipeline
Avg. Day Demand (mgd)	3.18
Avg. Day Purchases From SF RWS (mgd)	2.10 **
% Demand Met With SF RWS Supplies	65.9% (100% of drinking water)
Average Day Local Water Production (mgd)	1.08
Alternative Supply Sources	Local groundwater, surface water, recycled water***
Interties With Other Agencies	Palo Alto
Local Storage (mg)	8
Days of Storage	2.5 to 4 – 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.

\*\*The 2.10 mgd reported is Stanford's FY 2013-14 consumption for the campus, Stanford's service area, in unincorporated Santa Clara Co. In 2013, Stanford University was requested to supply domestic water through the emergency intertie at Roth Way to the Stanford Hospital, located in the Palo Alto service area. The request was to assist Palo Alto and the Hospital due to insufficient water pressure in that location of Palo Alto's water system. During the FY13-14 reporting period water served through the emergency intertie was a total of 59,878,148 gallons (July 2013 through June 2014) or 0.16 mgd on average which will be included in Palo Alto's Average Day Purchases from SF RWS.

\*\*\* 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 SF RWS, groundwater, non-potable surface water from the local watershed, and recycled water.

SF RWS 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 more than 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 SF RWS water.

**Water Supply and Demand**

Supply by Source	Actual FY 10-11 (ccf)	Actual FY 11-12 (ccf)	Actual FY 12-13 (ccf)	Actual FY 13-14 (ccf)
San Francisco Water	1,035,726	1,051,794	1,029,129	1,024,277
Local Groundwater	79,250	103,484	135,286	497,660
Surface Water	443,935	449,424	460,140	31,335
Other	0	0	0	0
<b>Total</b>	<b>1,558,911</b>	<b>1,604,702</b>	<b>1,624,555</b>	<b>1,553,272</b>
<b>mgd equivalent</b>	<b>3.19</b>	<b>3.29</b>	<b>3.33</b>	<b>3.18</b>

**Demand by Sector**

Residential	454,185	418,791	417,190	421,060
Commercial/Industrial	285,387	260,661	223,325	259,044
Other	308,690	272,539	281,363	276,377
Dedicated Irrigation	523,185	640,643	683,873	596,791
Unaccounted for	-12,536	12,068	18,804	0
<b>Total</b>	<b>1,558,911</b>	<b>1,604,702</b>	<b>1,624,555</b>	<b>1,553,272</b>
<b>mgd equivalent</b>	<b>3.19</b>	<b>3.29</b>	<b>3.33</b>	<b>3.18</b>

Per Capita Use	Actual FY 10-11 (gpcpd)	Actual FY 11-12 (gpcpd)	Actual FY 12-13 (gpcpd)	Actual FY 13-14 (gpcpd)
Residential	n/a	n/a	n/a	n/a
Gross	113	114	113	107

**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
<b>Total</b>		<b>8,000,000</b>

\*Currently out of service

**Wells**

Name	Capacity (gpm)	Status
Well 1	500	Active
Well 2	500	Active
Well 3R	1200	Active
Well 4R	400	Inactive
Well 5	500	Standby
<b>Total</b>	<b>3100**</b>	

**Interties**

Name	No.	Diameter (in.)
Roth Way	1	8
Sandhill	1	8

\*\*Actual total well capacity will be less than total indicated. Simultaneous pumping of wells will affect the individual well pumping rates. Wells are periodically taken out of service for maintenance

## City of Sunnyvale

Environmental Services Department  
 P.O. Box 3707  
 Sunnyvale, California 94088-3707

Phone: (408) 730-7510 Fax: (408) 736-1611

Web: <http://sunnyvale.ca.gov/Departments/EnvironmentalServices/Water.aspx>

### 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	147,055
Number of Accounts	29,210
Number of SF RWS Connections	6
Connections To SF RWS Mains	BDPL 3 and 4
Avg. Day Demand (mgd)	18.43
Avg. Day Purchases From SF RWS (mgd)	8.29
% Demand Met With SF RWS Supplies	52.4%
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 SF RWS 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 SF RWS 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 SF RWS 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 10-11 (ccf)	Actual FY 11-12 (ccf)	Actual FY 12-13 (ccf)	Actual FY 13-14 (ccf)
San Francisco Water	4,043,548	4,436,721	4,526,510	4,046,527
Santa Clara Valley WD	4,060,999	3,794,468	4,879,185	4,495,704
Local Groundwater	455,241	102,614	47,631	452,589
Surface Water	0	0	0	0
Recycled Water	572,805	131,921	0	0
Other	0	0	0	0
<b>Total</b>	<b>9,132,593</b>	<b>8,465,724</b>	<b>9,453,326</b>	<b>8,994,820</b>
<b>mgd equivalent</b>	<b>18.72</b>	<b>17.35</b>	<b>19.37</b>	<b>18.43</b>

### Demand by Sector

Residential	5,624,780	5,563,923	5,924,513	5,729,468
Commercial/Industrial	1,822,936	1,774,634	1,771,618	1,859,237
Other	155,028	116,875	159,311	132,172
Dedicated Irrigation	993,163	1,395,086	1,514,208	1,705,099
Unaccounted for	536,687	-384,794	83,676	-431,156
<b>Total</b>	<b>9,132,594</b>	<b>8,465,724</b>	<b>9,453,326</b>	<b>8,994,820</b>
<b>mgd equivalent</b>	<b>18.72</b>	<b>17.35</b>	<b>19.37</b>	<b>18.43</b>

Per Capita Use	Actual FY 10-11 (gpcpd)	Actual FY 11-12 (gpcpd)	Actual FY 12-13 (gpcpd)	Actual FY 13-14 (gpcpd)
Residential	82	80	83	80
Gross (Less Recycled Water)	133	120	133	125

### 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
			<b>Total</b>		<b>27,500,000</b>

**Wells**

<b>Name</b>	<b>Capacity (mgd)</b>	<b>Status</b>
Westmoor	0.8	Active
Serra	0.9	Active
Ortega	2.0	Active
Raynor	2.7	Active
Hamilton (1).	2.0	Active
Hamilton (2).	2.0	Active
Losse		Standby
Central	0.7	Inactive
Schroeder		Destroyed
<b>Total</b>	11.1	

**Interties**

<b>Name</b>	<b>No.</b>	<b>Diameter (in.)</b>
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





## Westborough County Water District

2263 Westborough Boulevard  
 South San Francisco, California 94080-5406  
 Phone: (650) 589-1435 Fax: (650) 589-5167  
 Web: <http://www.westboroughwater.com>

### Service Area

The Westborough Water District is located within the City of South San Francisco in north San Mateo County. The District provides both water and sewer service, and has an agreement with the North San Mateo County Sanitation District for sewage disposal and facility maintenance.

### System

#### Profile

Area Size	1 square mile
Service Population	13,259
Number of Accounts	3,873
Number of SF RWS Connections	1
Connections To SF RWS Mains	San Andreas 1, 2, and 3
Avg. Day Demand (mgd)	0.89
Avg. Day Purchases From SF RWS (mgd)	0.89
% Demand Met With SF RWS Supplies	100.0%
Maximum Local Water Production (mgd)	0
Alternative Supply Sources	None
Interties With Other Agencies	North Coast CWD, Daly City
Local Storage (mg)	6.5
Days of Storage	6.5 – All zones can meet the required 8 hr. coverage.. During emergencies, District also has access to an additional 3.5 mg in storage owned by North Coast WD.

### Summary

The Westborough Water District receives its entire water supply from the San Francisco Public Utilities Commission through a single 6” turnout located on Westborough Boulevard. This water is distributed to 3 Skyline storage tanks located at the north end of the district, from which the Skyline Pump Station pumps water to the Christen Hill Reservoir for gravity distribution to Zone 3, and the Main Water Pump Station pumps water to Zones 1 and 2.

The Christen Hill Reservoir is shared with the North Coast County Water District.

The WCWD distribution system includes 3 storage tanks, 2 pumping stations, 5 pumps, and 24 miles of mains. In addition to the Christen Hill Reservoir intertie with NCCWD, the district has an intertie with Daly City.

**Water Supply and Demand**

<b>Supply by Source</b>	<b>Actual FY 10-11 (ccf)</b>	<b>Actual FY 11-12 (ccf)</b>	<b>Actual FY 12-13 (ccf)</b>	<b>Actual FY 13-14 (ccf)</b>
San Francisco Water	408,487	440,796	441,233	433,980
Local Groundwater	0	0	0	0
Surface Water	0	0	0	0
Recycled Water	0	0	0	0
Other	0	0	0	0
<b>Total</b>	<b>408,487</b>	<b>440,796</b>	<b>441,233</b>	<b>433,980</b>
<b>mgd equivalent</b>	<b>0.84</b>	<b>0.90</b>	<b>0.90</b>	<b>0.89</b>

**Demand by Sector**

Residential	281,030	306,708	320,606	313,148
Commercial/Industrial	68,245	52,482	28,504	26,092
Other	0	0	0	0
Dedicated Irrigation	43,983	45,387	53,498	54,316
Unaccounted for	15,229	36,219	38,625	40,424
<b>Total</b>	<b>408,487</b>	<b>440,796</b>	<b>441,233</b>	<b>433,980</b>
<b>mgd equivalent</b>	<b>0.84</b>	<b>0.90</b>	<b>0.90</b>	<b>0.89</b>

<b>Per Capita Use</b>	<b>Actual FY 10-11 (gpcpd)</b>	<b>Actual FY 11-12 (gpcpd)</b>	<b>Actual FY 12-13 (gpcpd)</b>	<b>Actual FY 13-14 (gpcpd)</b>
Residential	43	47	50	48
Gross	63	68	68	67

**Facilities and Distribution****Storage Reservoirs**

<b>Designation</b>	<b>Type</b>	<b>Capacity (mg)</b>
SS Tank 1	Steel	1.5
SS Tank 2	Steel	2.5
SS Tank 3	Steel	2.0
CH Reservoir	Steel	0.5
<b>Total</b>		<b>6.5</b>

**Interties**

<b>Name</b>	<b>No.</b>	<b>Diameter (in.)</b>
North Coast	1	8
Daly City	1	12