ANNUAL SURVEY



June 2018

Fiscal Year 2016-17



Bay Area Water Supply and Conservation Agency FY 2016-17

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JUNE 2018

BAWSCA WATER FACTS AT-A-GLANCE – FY 2016-17

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 | 744,733 | 16 |
| Santa Clara County | 117 | 547,283 | 8 |
| Alameda County | 166 | 509,523 | 2 |
| Total | 468 | 1,801,539 | 26 |

Supply by Source

| | ccf | mgd | af | % |
|-------------------|--------------------|--------|---------|-------|
| San Francisco RWS | 59,399,763 | 121.73 | 136,363 | 65.9% |
| Groundwater | 8,11 <i>5,77</i> 8 | 16.63 | 18,631 | 9.0% |
| Surface Water | 4,852,839 | 9.94 | 11,141 | 5.4% |
| Recycled Water | 3,528,899 | 7.23 | 8,101 | 3.9% |
| Other Sources | 14,271,800 | 29.25 | 32,764 | 15.8% |
| Total | 90,169,079 | 184.78 | 207,000 | 100% |

Demand by Sector

| | ccf | mgd | af | % |
|--------------------------------|------------|----------------|---------|------|
| Residential | 50,969,666 | 104.45 | 117,010 | 57% |
| Commercial/Industrial | 19,031,019 | 39.00 | 43,689 | 21% |
| Government/Institutional/Other | 3,832,422 | 7.85 | 8,798 | 4% |
| Dedicated Irrigation | 8,028,789 | 16.45 | 18,432 | 9% |
| Unaccounted for | 8,307,182 | 1 <i>7</i> .02 | 19,071 | 9% |
| Total | 90,169,079 | 184.78 | 207,000 | 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: Calaveras Dam Spillway Filling Basin, September 13, 2017. Image Courtesy of Leonard Ash, Alameda County Water District.

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Annual Survey

FISCAL YEAR 2016-17

ABOUT BAWSCA

The Bay Area Water Supply and Conservation Agency (BAWSCA) is a special district that provides regional water supply planning, resource development, and conservation program services to enhance the reliability of the 16 cities, 8 water districts, 1 university, and 1 private water provider that provide water to over 1.8 million people and 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.

BAWSCA is the only entity authorized 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 enables the customers of the SF RWS to work with the San Francisco Public Utilities Commission (SFPUC) on an equal basis to ensure that the system is maintained, and to collectively and efficiently meet local responsibilities.

BAWSCA MEMBER AGENCIES

San Mateo County

In San Mateo County, BAWSCA and its member agencies serve a population of approximately 745,000 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.

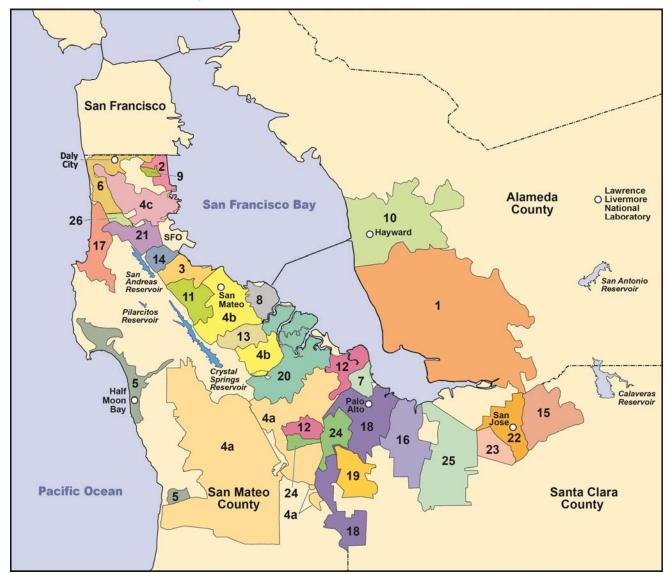
Santa Clara County

In Santa Clara County, BAWSCA and its member agencies serve a population of approximately 547,000 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

In Alameda County, BAWSCA and its member agencies serve a population of approximately 510,000 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
- 2 City of Brisbane
- 3 City of Burlingame
- 4a CWS Bear Gulch
- 4b CWS Mid-Peninsula
- 4c CWS South San Francisco
- 5 Coastside County Water District
- 6 City of Daly City
- 7 City of East Palo Alto
- 8 Estero Municipal Improvement District
- 9 Guadalupe Valley MID
- 10 City of Hayward
- 11 Town of Hillsborough
- 12 City of Menlo Park

- 13 Mid-Peninsula Water District
- 14 City of Millbrae
- 15 City of Milpitas
- 16 City of Mountain View
- 17 North Coast County Water District
- 18 City of Palo Alto
- 19 Purissima Hills Water District
- 20 City of Redwood City
- 21 City of San Bruno
- 22 San Jose Municipal Water System
- 23 City of Santa Clara
- 24 Stanford University
- 25 City of Sunnyvale
- 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 member agencies 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 the SF RWS, which is the major source of supply for BAWSCA member agencies. In FY 2016-17, the BAWSCA member agencies reported SF RWS purchases of 116.4 mgd, 3% higher than the total of 112.6 mgd purchased in FY 2015-16. In addition, BAWSCA member agencies reported 5.3 mgd in supplemental purchases as part of the conjunctive use program. Compared with the prior ten-year average, total purchases in FY 2016-17 were below average by 33.0 mgd. When compared to FY 2007-08, the highest year in the prior ten-year period, FY 2016-17 purchases were lower by 57.9 mgd, a difference of about 33%.

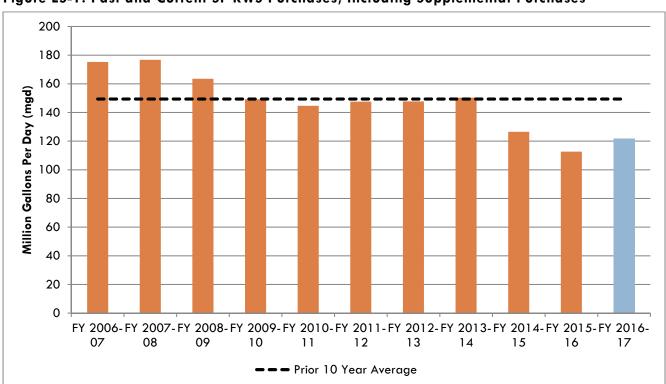


Figure ES-1: Past and Current SF RWS Purchases, Including Supplemental Purchases

Projected Water Purchases from SFPUC

As part of SFPUC's action on the Program Environmental Impact Report (PEIR) for its Water System Improvement Program (WSIP), it 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 2017, BAWSCA notified the SFPUC that the projected BAWSCA member agency purchases in 2018 are expected to be 130 mgd. In FY 2040-41, BAWSCA member agency purchases from the SF RWS are projected to reach 175 mgd.

Water Use Reductions in Response to Statewide Drought

On January 17, 2014, Governor Brown proclaimed a State of Emergency and directed state officials to take all necessary actions to prepare for drought conditions. On January 31, 2014, SFPUC asked all customers of the SF RWS to voluntarily curtail water consumption. 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. This request was extended through calendar year 2016.

On April 1, 2015, Governor Brown issued an executive order directing the State Water Resources Control Board (SWRCB) to implement mandatory water reductions across California to reduce water usage by 25 percent. In accordance with the Executive Order, the SWRCB adopted an emergency regulation for statewide water conservation in May 2015. The regulation established mandatory water use reduction targets, referred to as "conservation standards", for each urban water supplier in California, in order to achieve a statewide 25% reduction in potable water use.

On February 8, 2017, SFPUC lifted its request for voluntary water use reductions due to significant improvement in water supply conditions. On April 7, 2017, Governor Brown lifted the Drought State of Emergency and directed the SWRCB to rescind mandatory conservation standards statewide. The SWRCB formally removed these requirements on April 26, 2017.

The BAWSCA Drought Report, published in August 2017, provides the detailed information on drought actions and monthly water use reductions for the BAWSCA member agencies.

TOTAL WATER SUPPLY AND DEMAND

brackish water desalination (29.25 mgd, 15.8%); and

Current Water Supply by Source

| 2% | e sources of supply used by BAWSCA member agencies are very consistent, typically varying by less than a from one year to the next. Of the total amount of water used by BAWSCA agencies in FY 2016-17, come from the SF RWS and 34.1% came from other sources. These other sources included: |
|----|---|
| | Groundwater (16.63 mgd, 9.0%); |
| | Local surface water, primarily from ACWD's take from Lake Del Valle (9.94 mgd, 5.4%); |
| | Other supplies from the Santa Clara Valley Water District, the State Water Project, and ACWD's |

Recycled water (7.23 mgd, 3.9%).

Figure ES-2: FY 2016-17 Water Use by Source

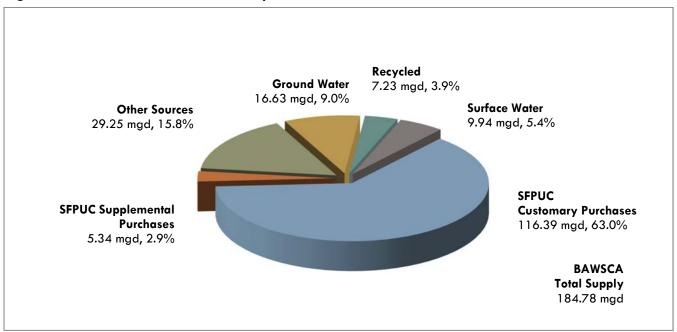
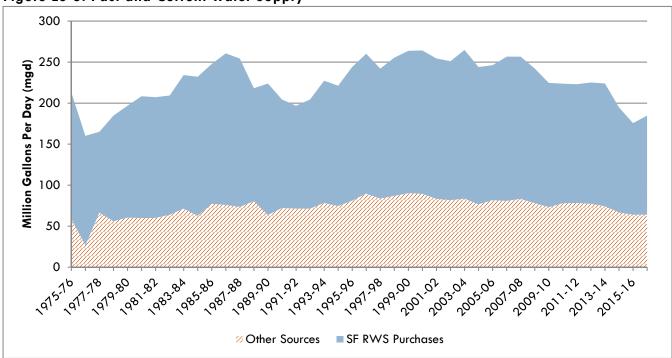


Figure ES-3: Past and Current Water Supply



Current BAWSCA-Wide Total Water Demand

For FY 2016-17, total water demand in the BAWSCA service area, including SFPUC purchases and other ssources, was 184.8 mgd. In comparison, in FY 1996-97, BAWSCA-wide demand reached 260 mgd. When compared to FY 2012-13, the fiscal year immediately preceding the Governor's drought proclamation, water used in the BAWSCA service area was 17% less in FY 2016-17. In FY 2016-17, 32% less water was used in the service area compared to the peak year, FY 1986-87, despite a 29% population increase.

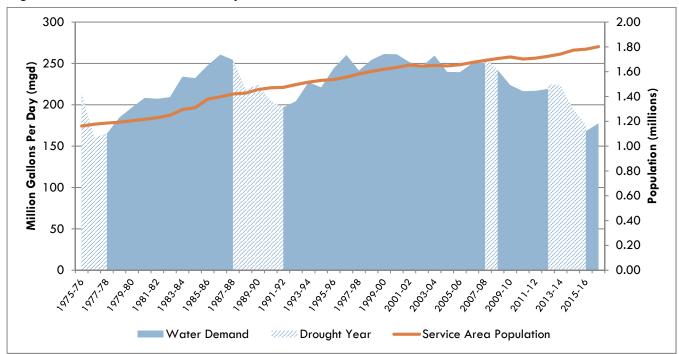


Figure ES-4: Past and Current Population and Water Demand

Projected Water Supplies and Demands

The total normal year water demands of the BAWSCA member agencies are projected to reach 302.9 mgd by FY 2040-41 (Source: FY 2016-17 Annual Survey). Of the total water demand, 7.1 mgd is projected to be met through additional active conservation beyond that already achieved within the BAWSCA service area. SF RWS purchases are anticipated to be 175.3 mgd in FY 2040-41. Recycled water supplies are projected to increase by 241% to 24.7 mgd by FY 2040-41.

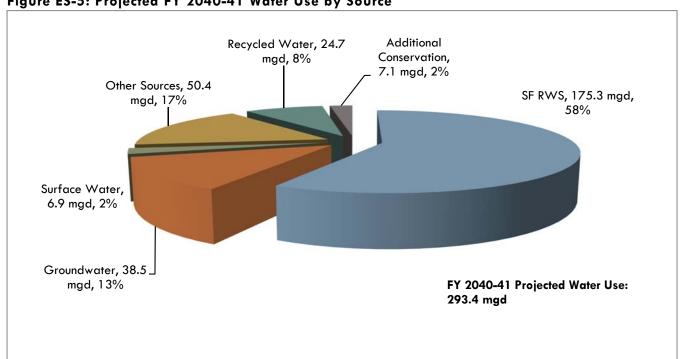


Figure ES-5: Projected FY 2040-41 Water Use by Source

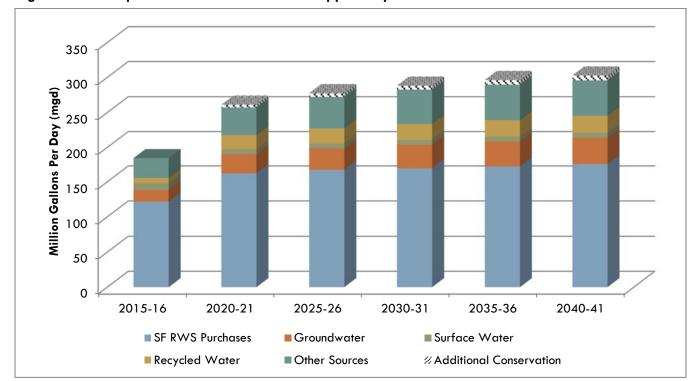


Figure ES-6: Projected Normal Year Water Supplies by Source

Meeting Projected Dry Year Water Demands

BAWSCA's Long-Term Reliable Water Supply Strategy Phase II Final Report (Strategy), completed in 2015, does not project a regional 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, 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 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 and advanced treatment supply project 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 184.8 mgd consumed among BAWSCA agencies in FY 2016-17, the residential sector accounted for 56.5%

(104.5 mgd); commercial and industrial customers for 21.1 (39.0 mgd); government, institutional and other customers for 4.3% (7.9 mgd); dedicated irrigation for 8.9% (16.5 mgd); and non-revenue water for 9.2% (17.0 mgd).

In FY 2016-17, there were 432,438 accounts (service connections) in the entire BAWSCA service area, 88%, or 382,581, of which were residential.

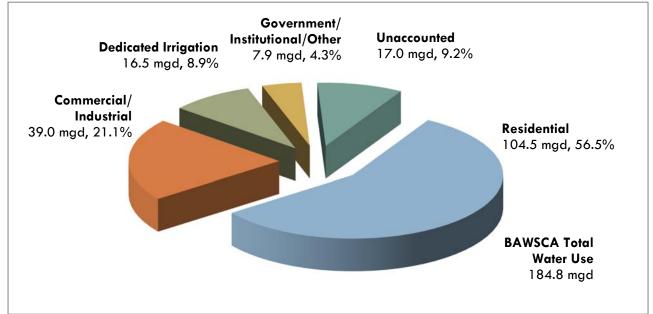
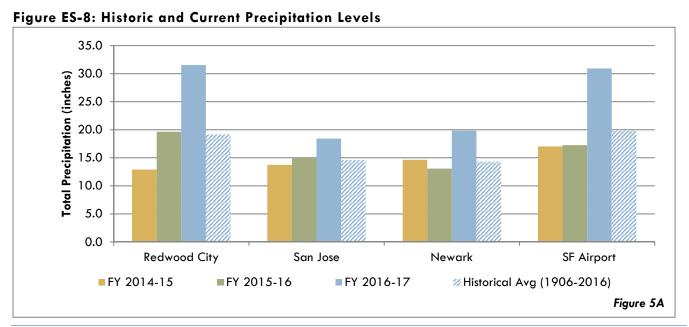


Figure ES-7: FY 2015-16 Water Use by Customer Class

CLIMATE DATA

FY 2016-17 was a particularly wet year, with rainfall totals recorded at 4 representative locations in the BAWSCA service area that were, on average, 48% higher than the historical average from 1948 - 2016. In FY 2014-15 and FY 2015-16 rainfall totals recorded at these locations were below average by 14% and 5% respectively.



POPULATION AND PER CAPITA WATER USE

The population of the BAWSCA service area is estimated to have increased from 1,781,336 to 1,801,539 between FY 2015-16 and FY 2016-17. The BAWSCA service area population is projected to reach 2,231,896 by FY 2040-41.

Average residential per capita consumption (excluding Stanford) in the BAWSCA service area was 58.6 gpcd in FY 2016-17, 5% more than the year before. This is 49% less than the estimated peak residential per capita consumption of 114.9 gpcd in FY 1975-76. In FY 2016-17, CWS - South SF

In FY 2016-17, eleven BAWSCA member agencies had residential water use of less than 55 gallons per capita per day.

had the lowest residential per capita consumption at 39.2 gpcd while Purissima Hills WD had the highest at 209.2 gpcd.

The average gross per capita consumption in the BAWSCA service area was 98.6 gpcd in FY 2016-17, 5% higher than FY 2015-16. At the peak in FY 1986-87, gross per capita consumption was 186.5 gpcd.

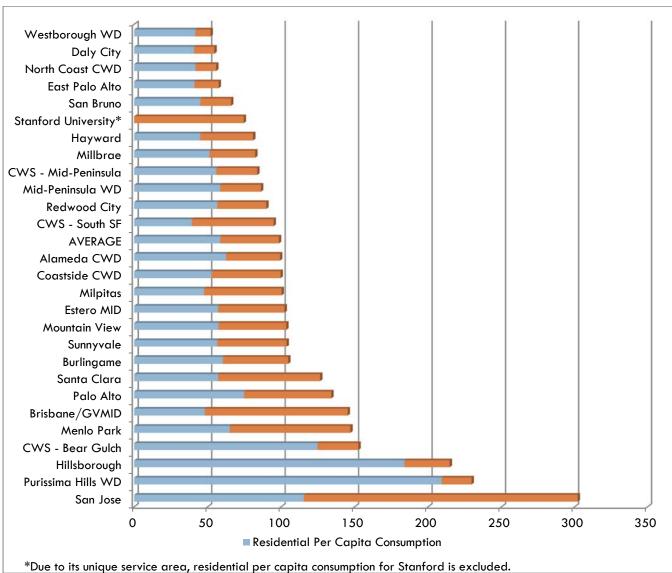


Figure ES-9: BAWSCA Member Agency Per Capita Water Use

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 \$34.00 for 5.0 units in the North Coast CWD service area to a high of \$211.13 for 19.4 units in Hillsborough. The average single family water bill among the BAWSCA member agencies, inclusive of the service charge, was \$71.23.

Five BAWSCA member agencies (Alameda County Water District, East Palo Alto, Millbrae, Santa Clara, and Westborough Water District) had a uniform rate structure in FY 2016-17, 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.

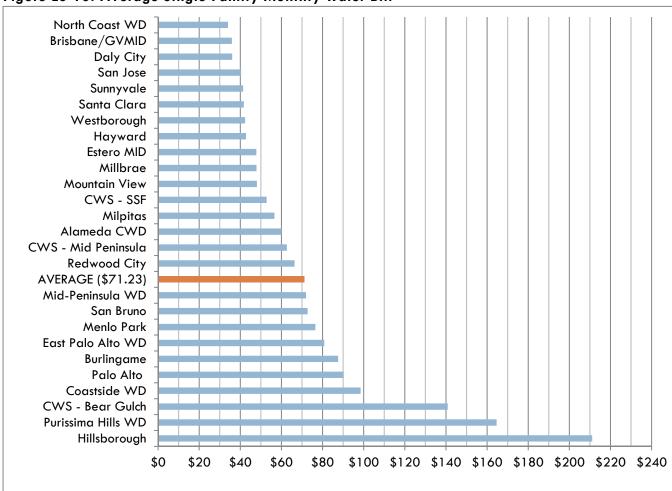


Figure ES-10: Average Single Family Monthly Water Bill

1. BAWSCA Overview

BAY AREA WATER SUPPLY AND CONSERVATION AGENCY

155 Bovet Rd., Suite 650 San Mateo, CA 94402

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

E-Mail: BAWSCA@BAWSCA.org

Goals

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

Composition

BAWSCA is a special district 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 over 1.8 million people and 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 4,156 and a service area of approximately 3 square miles) to quite large (e.g., Alameda County Water District, with a service area population of approximately 350,538 and a service area of 105 square miles).

■ Reliance on the San Francisco Regional Water System

Several of the BAWSCA member agencies are entirely dependent on the SF RWS for water supply. This is particularly the case in San Mateo County, which has limited groundwater or 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, 63% of all water delivered by the BAWSCA member agencies came from the SF RWS in FY 2016-17.

BAWSCA Overview Page 1-1

Customer Mix

Most BAWSCA member agencies serve a mix of single family residential, multi-family residential, commercial, and industrial customers, in varying proportions. 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 and a small residential community. Nearly 90% of all service connections in the BAWSCA service area are residential, with residential use comprising 59% of total potable demand in FY 2016-17.

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, and household income. In FY 2016-17, residential per capita water use was lower than the prior year due to water use reductions in response to the drought. Per capita use in the wholesale service area ranged from a low of 39 gallons per capita per day (gpcd) to a high of 209 gpcd. Average residential use is 59 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 for Stanford University and the San Mateo County Board of Supervisors appoints a director for 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. A standing Board Policy Committee, comprised of board members, advises the CEO and the full board on policy matters. The agency's FY 2016-17 budget was \$3.47M, 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.

Page 1-2 BAWSCA Overview

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

BAWSCA Overview Page 1-3

Table 1: BAWSCA Members Summary - FY 2016-17

| | | Water Pur | | |
|---|------------|-----------|--------|--|
| | Service | Produced | | |
| | Population | SF RWS | Total | Communities Served (all or portions of) |
| San Mateo County | | | | |
| City of Brisbane / Guadalupe Valley Municipal | | | | Brisbane, nearby unincorporated areas, and GVMID, an industrial park and small |
| Improvement District | 4,156 | 0.60 | 0.60 | residential community within the City of Brisbane |
| City of Burlingame | 31,109 | 3.26 | 3.56 | City of Burlingame, and nearby unincorporated areas |
| California Water Service Company | | | | Atherton, Colma, Daly City, Los Altos, Menlo Park, Portola Valley, parts of |
| Bear Gulch District, Mid-Peninsula District, | | | | unincorporated Redwood City, San Carlos, San Mateo, South San Francisco, |
| South San Francisco District | 257,737 | 24.29 | 26.45 | Woodside and nearby unincorporated areas |
| CalWater-BG | 60,513 | 8.44 | 9.24 | |
| CalWater-MP | 135,455 | 11.35 | 11.35 | |
| CalWater-SSF | 61,769 | 4.50 | 5.87 | |
| Coastside County Water District | 16,704 | 1.06 | 1.67 | Half Moon Bay, Princeton by the Sea, Miramar, and El Granada |
| City of Daly City | 109,139 | 3.83 | 6.49 | Daly City and nearby unincorporated areas |
| City of East Palo Alto | 26,181 | 1.51 | 1.51 | City of East Palo Alto, Menlo Park, and nearby unincorporated areas |
| Estero Municipal Improvement District | 37,518 | 3.84 | 3.84 | Foster City and small parts of San Mateo |
| Town of Hillsborough | 10,869 | 2.33 | 2.33 | Hillsborough and nearby unincorporated areas |
| City of Menlo Park | 16,066 | 2.36 | 2.36 | Menlo Park west of Altschul Avenue and east of El Camino Real |
| Mid-Peninsula Water District | 26,924 | 2.32 | 2.32 | Belmont, San Carlos, and nearby unincorporated areas |
| City of Millbrae | 22,848 | 1.88 | 1.91 | Millbrae and nearby unincorporated areas |
| North Coast County Water District | 40,000 | 2.23 | 2.26 | Pacifica and nearby unincorporated areas |
| City of Redwood City | 87,023 | 7.83 | 8.43 | Redwood City, parts of San Carlos and Woodside, and nearby unincorporated area |
| City of San Bruno | 44,409 | 0.79 | 2.93 | San Bruno and nearby unincorporated areas |
| Westborough Water District | 14,050 | 0.73 | 0.73 | Parts of South San Francisco, Daly City, and nearby unincorporated areas |
| Subtotal | 744,733 | 58.87 | 67.41 | |
| Santa Clara County | | | | |
| City of Milpitas | 77,528 | 4.90 | 8.52 | Milpitas and portions of San Jose |
| City of Mountain View | 77,801 | 7.14 | 8.45 | Mountain View and nearby unincorporated areas |
| City of Palo Alto | 66,930 | 8.98 | 9.57 | Palo Alto and nearby unincorporated areas |
| Purissima Hills Water District | 6,150 | 1.41 | 1.41 | Los Altos Hills, parts of Los Altos, and nearby unincorporated areas |
| San Jose Municipal Water District | 13,733 | 4.15 | 4.77 | North San Jose/Alviso and nearby unincorporated areas |
| City of Santa Clara | 123,752 | 1.99 | 18.73 | Santa Clara and nearby unincorporated areas |
| Stanford University | 31,558 | 1.42 | 2.35 | Stanford University |
| City of Sunnyvale | 149,831 | 8.33 | 15.87 | Sunnyvale and nearby unincorporated areas |
| Subtotal | 547,283 | 38.33 | 69.69 | , |
| Alameda County | | | | |
| Alameda County Water District | 350,538 | 6.31 | 34.81 | Union City, Newark, Fremont and nearby unincorporated areas |
| City of Hayward | 158,985 | 12.87 | 12.87 | Hayward and nearby unincorporated areas |
| Subtotal | 509,523 | 19.19 | 47.68 | ., |
| Jobiolai | 1,801,539 | 116.39 | 184.78 | |

BAWSCA Overview

2. Past and Current Purchases from SF RWS

Figure 2A: Past and Current Purchases from SF RWS

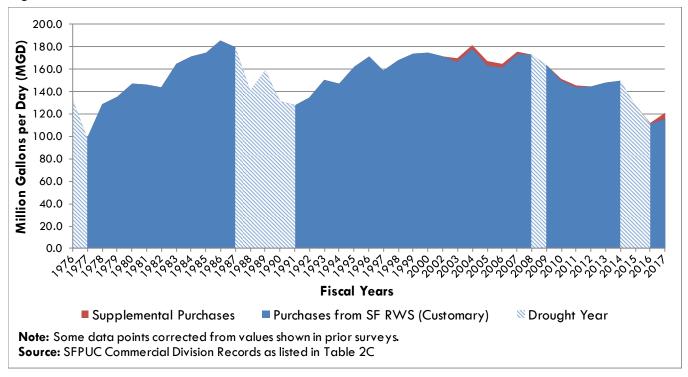


Table 2A: Past and Current Purchases from SF RWS and Relationship to Supply Guarantee (in ccf) (Excluding Supplemental Purchases)

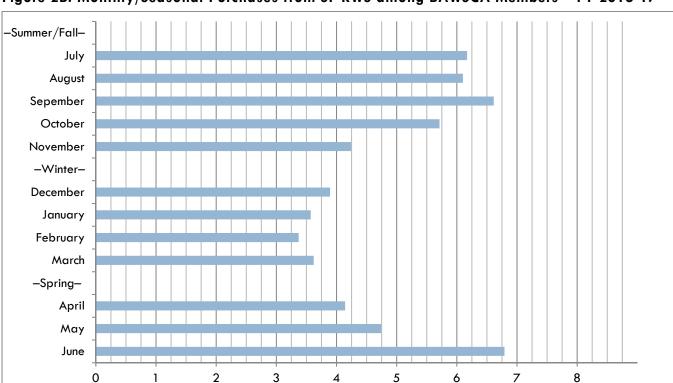
| | Supply | mgd | Predrought | mgd | Actual | Actual | Actual | Actual | Actual | Actual | Actual | Actual | Actual | Actual | Actual | mgd | 2016-17/ 2015-16 | 2016-1 Purchases o |
|------------------------------|-----------------|----------|------------|--------|---|---------------|--------------|--------------|-----------------|--------------|---|---------------|---------------|-----------------|-------------------|--------|---------------------|-----------------------|
| Member | Guarantee | Equiv | FY 1986-87 | Equiv | 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 2014-15 | FY 2015-16 | FY 2016-17 | Equiv | % Change | Guarante |
| an Mateo County | | | | | | | | | | | | | | | | | | |
| Brisbane ** | 224,435 | 0.46 | 171,507 | 0.35 | 148,937 | 182,661 | 179,743 | 123,803 | 275,934 | 280,650 | 287,290 | 302,776 | 280,029 | 257,414 | 294,756 | 0.60 | 14.5 | 61. |
| Burlingame | 2,553,753 | 5.23 | 2,531,707 | 5.19 | 2,209,757 | 2,195,474 | 2,086,616 | 1,920,815 | 1,971,599 | 2,012,282 | 1,952,965 | 2,001,619 | 1,791,539 | 1,505,779 | 1,592,044 | 3.26 | 5.7 | 62. |
| California Water Service *** | 17,320,807 | 35.50 | 17,393,987 | 35.65 | 18,279,882 | 18,414,636 | 17,561,079 | 15,815,998 | 15,668,088 | 16,101,764 | 15,212,752 | 16,361,264 | 13,839,271 | 11,584,178 | 11,851,282 | 24.29 | 2.3 | 68. |
| Coastside CWD | 1,061,453 | 2.18 | 600,257 | 1.23 | 1,006,844 | 1,014,105 | 977,849 | 887,675 | 806,110 | 832,099 | 885,896 | 940,214 | 727,298 | 575,225 | 515,655 | 1.06 | -10.4 | 48. |
| Daly City | 2,094,386 | 4.29 | 2,264,684 | 4.64 | 1,747,221 | 2,187,273 | 2,113,320 | 1,542,719 | 1,405,560 | 1,811,358 | 1,955,442 | 1,713,514 | 1,654,762 | 2,152,800 | 1,867,312 | 3.83 | -13.3 | 89. |
| * East Palo Alto | 1,445,747 | 2.96 | 1,041,989 | 2.14 | 976,874 | 996,587 | 938,045 | 842,883 | 863,282 | 907,662 | 1,008,253 | 723,320 | 768,310 | 690,728 | 734,911 | 1.51 | 6.4 | 50. |
| * Estero MID | 2,878,807 | 5.90 | 2,854,051 | 5.85 | 2,747,662 | 2,691,080 | 2,509,929 | 2,392,839 | 2,274,588 | 1,966,984 | 2,000,497 | 1,942,333 | 1,930,526 | 1,768,029 | 1,874,751 | 3.84 | 6.0 | 65. |
| * Guadalupe Valley MID | 254,436 | 0.52 | 155,074 | 0.32 | 115,901 | 130,485 | 122,888 | 152,798 | | | | Included with | Brisbane | | | | | |
| * Hillsborough | 1,995,644 | 4.09 | 1,996,150 | 4.09 | 1,786,177 | 1,893,039 | 1,743,929 | 1,470,409 | 1,461,935 | 1,580,857 | 1,609,532 | 1,599,812 | 1,226,777 | 1,050,944 | 1,139,003 | 2.33 | 8.4 | 57. |
| Los Trancos | | | 34,848 | 0.07 | | | | | Inc | uded with CW | /S-Bear Gulch | | | | | | | |
| * Menlo Park | 2,174,231 | 4.46 | 1,958,458 | 4.01 | 1,735,075 | 1,857,088 | 1,628,275 | 1,556,801 | 1,533,788 | 1,621,745 | 1,584,636 | 1,724,965 | 1,287,136 | 1,074,516 | 1,153,760 | 2.36 | 7.4 | 53. |
| * Mid-Peninsula WD | 1,898,707 | 3.89 | 1,888,074 | 3.87 | 1,652,208 | 1,583,791 | 1,533,876 | 1,390,831 | 1,404,933 | 1,437,360 | 1,453,047 | 1,408,109 | 1,209,300 | 1,076,654 | 1,134,389 | 2.32 | 5.4 | 59. |
| * Millbrae | 1,538,120 | 3.15 | 1,528,426 | 3.13 | 1,194,450 | 1,199,327 | 1,168,008 | 1,094,867 | 1,075,971 | 1,034,254 | 1,113,147 | 1,134,741 | 991,049 | 899,785 | 918,695 | 1.88 | 2.1 | 59. |
| * North Coast CWD | 1,872,928 | 3.84 | 1,618,649 | 3.32 | 1,418,174 | 1,582,423 | 1,632,364 | 1,471,838 | 1,585,572 | 1,380,360 | 1,192,485 | 1,387,578 | 1,360,780 | 900,293 | 1,089,419 | 2.23 | 21.0 | 58. |
| * Redwood City | 5,333,115 | 10.93 | 5,253,772 | 10.77 | 5,694,374 | 5,711,397 | 5,048,309 | 4,689,257 | 4,462,944 | 4,420,594 | 4,747,255 | 4,407,672 | 3,789,370 | 3,508,414 | 3,820,098 | 7.83 | 8.9 | 71. |
| San Bruno | 1,583,899 | 3.25 | 1,748,600 | 3.58 | 906,722 | 968,953 | 925,521 | 735,442 | <i>775</i> ,910 | 1,017,925 | 946,503 | 779,582 | 584,392 | 637,586 | 383,693 | 0.79 | -39.8 | 24. |
| Skyline | | | 62,726 | 0.13 | 80,966 | 76,864 | | | | Incl | uded with CW | /S-Bear Gulch | | | | | | |
| * Westborough WD | 644,172 | 1.32 | 585,151 | 1.20 | 532,529 | 457,299 | 485,493 | 394,878 | 408,487 | 440,796 | 441,233 | 433,980 | 377,034 | 390,753 | 356,722 | 0.73 | -8.7 | 55. |
| Subtotal | 44,874,640 | 91.96 | 43,688,110 | 89.53 | 42,233,753 | 43,142,482 | 40,655,244 | 36,483,853 | 35,974,701 | 36,846,690 | 36,390,933 | 36,861,479 | 31,817,573 | 28,073,098 | 28,726,490 | 58.87 | 2.3 | 64. |
| Santa Clara County | | | | | | | | | | | | | | | | | | |
| Milpitas | 4,504,533 | 9.23 | 4,370,757 | 8.96 | 3,363,685 | 3,346,012 | 3,373,223 | 3,044,020 | 2,954,096 | 3,060,055 | 3,115,000 | 3,194,000 | 2,503,640 | 2,215,396 | 2,391,431 | 4.90 | 7.9 | 53. |
| Mountain View | 6,079,714 | 12.46 | 6,435,554 | 13.19 | 5,349,361 | 5,074,103 | 4,788,905 | 4,332,561 | 4,162,626 | 4,346,523 | 4,389,474 | 4,373,263 | 3,611,194 | 3,305,780 | 3,485,016 | 7.14 | 5.4 | 57. |
| * Palo Alto | 8,331,697 | 17.07 | 8,009,767 | 16.41 | 6,361,100 | 6,205,790 | 5,677,018 | 5,362,816 | 5,440,236 | 5,561,559 | 5,547,735 | 5,600,519 | 4,723,751 | 4,006,084 | 4,382,560 | 8.98 | 9.4 | 52. |
| * Purissima Hills | 792,832 | 1.62 | 755,077 | 1.55 | 1,112,291 | 1,124,922 | 980,987 | 854,854 | 839,360 | 899,221 | 972,733 | 982,100 | 803,313 | 640,369 | 689,261 | 1.41 | 7.6 | 86. |
| San Jose | 0 | 0.00 | 1,541,153 | 3.16 | 2,321,769 | 2,394,495 | 2,185,349 | 1,998,932 | 2,035,953 | 2,172,405 | 2,173,663 | 2,272,262 | 2,151,905 | 1,997,596 | 2,024,785 | 4.15 | 1.4 | n/ |
| Santa Clara | 0 | 0.00 | 2,429,766 | 4.98 | 2,106,452 | 1,618,029 | 1,307,380 | 1,105,658 | 1,055,675 | 910,029 | 1,118,315 | 1,012,567 | 914,572 | 1,135,829 | 970,987 | 1.99 | -14.5 | n/ |
| Stanford | 1,479,764 | 3.03 | 1,485,396 | 3.04 | 1,112,857 | 1,125,377 | 1,045,886 | 1,043,864 | 1,035,726 | 1,051,794 | 1,024,012 | 1,024,277 | 923,813 | 679,394 | 695,088 | 1.42 | 2.3 | 47. |
| Sunnyvale | 6,138,122 | 12.58 | 7,228,076 | 14.81 | 4,505,138 | 5,072,437 | 5,181,026 | 4,771,741 | 4,043,548 | 4,436,721 | 4,526,510 | 4,046,527 | 3,874,640 | 3,894,246 | 4,066,178 | 8.33 | 4.4 | 66. |
| Subtotal | 27,326,662 | 56.00 | 32,255,546 | 66.10 | 26,232,653 | 25,961,165 | 24,539,774 | 22,514,446 | 21,567,221 | 22,438,307 | 22,867,442 | 22,505,515 | 19,506,828 | 17,874,694 | 18,705,306 | 38.33 | 4.6 | 68. |
| Alameda County | | | | | | | | | | | | | | | | | | |
| Alameda CWD | 6,714,439 | 13.76 | 6,039,273 | 12.38 | 6,667,959 | 6,534,358 | 5,477,714 | 5,102,005 | 3,825,797 | 4,052,940 | 4,371,390 | 5,684,760 | 3,770,320 | 3,037,166 | 3,081,217 | 6.31 | 1.5 | 45. |
| * Hayward 1 | 6,281,522 | 12.87 | 8,504,158 | 17.43 | 8,901,286 | 9,434,134 | 9,105,654 | 8,511,066 | 8,308,740 | 7,610,980 | 7,552,956 | 7,402,067 | 6,634,616 | | 6,281,522 | 12.87 | 5.0 | 100. |
| Residual 1 | 4,588,833 | 9.40 | 1,11,11 | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | , , , | .,, | .,. | .,, | , , , , , , | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | , , , , , , | .,,. | , , | 1, 1, | | | |
| Subtotal | 17,584,794 | 36.04 | 14,543,431 | 29.80 | 15,569,245 | 15,968,492 | 14,583,368 | 13,613,071 | 12,134,537 | 11,663,920 | 11,924,346 | 13,086,827 | 10,404,936 | 9,016,782 | 9,362,739 | 19.19 | 3.8 | 53. |
| Total | 89,786,096 | 19400 | 90,487,087 | 105.44 | 84,035,651 | 85,072,140 | 79,778,386 | 72,611,370 | 69,676,459 | 70,948,917 | 71 102 721 | 72,453,821 | 61,729,337 | | 56,794,535 | | 3.3 | 63. |
| mgd equiv | 184.00 | 134.00 | 185.44 | 100.44 | 172.22 | 174.34 | 163.49 | 148.80 | 142.79 | 145.40 | 145.88 | 148.48 | 126.50 | 112.64 | 116.39 | 110.57 | 3.3 | 03. |
| Total w/o SC&SJ | 89,786,096 | | 86,516,168 | | 79,607,430 | 81,059,616 | 76,285,657 | 69,506,780 | 66,584,830 | 67,866,483 | 67,890,743 | | 58,662,860 | | 53,798,763 | 110.25 | 3.8 | 59. |
| mgd equiv | 184.00 | | 177.30 | | 163.14 | 166.12 | 156.33 | 142.44 | 136.45 | 139.08 | 139.13 | 141.75 | 120.22 | | 110.25 | 110.23 | 3.6 | 39. |
| mga equiv | 104.00 | | 177.30 | | 100.14 | 100.12 | 130.33 | 172,44 | 100.40 | 137.00 | 107.10 | 141./3 | 120.22 | 100.22 | 110.23 | | | |
| * Agencies receiving 100% of | hair supply fro | m the SF | RWS. | ** 1. | nclusive of Gua | dulupa Vallay | MID boginnin | a in EV 2010 | 1 | *** | Inclusive of Be | ar Gulch Mid | Peninsula and | d South San Fra | incisco districts | | | |

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 2016-17). 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 or the specific purchase of water by the City of Menlo Park from the City of East Palo Alto.

Note: Beginning in 2002, Daly City, CWS-South San Francisco, and San Bruno began participating in a pilot conjunctive use program whereby surplus surface water was purchased in lieu of groundwater pumping. Additional surface water supplies are utilized in lieu of groundwater pumping when available. Values shown above exclude supplemental water purchases.

Note: In June 2017, Mountain View transferred 1 mgd of Supply Guarantee to East Palo Alto. The Supply Guarantee in the above table reflects this transfer.



Hundred Cubic Feet (ccf) (millions)

Figure 2B: Monthly/Seasonal Purchases from SF RWS among BAWSCA Members - FY 2016-17

Source: Table 2B

Table 2B: Monthly/Seasonal Purchases from SF RWS Among BAWSCA Members - FY 2016-17 (in ccf) SFPUC Commercial Division Records Data¹

| | | | | | Su | ımmer/Fall | | | | | Winter | | | | Spring | | Yea |
|----------------------|--------------|-----------|---------|------------|-------------|------------|-----------|-----------|---------|---------|------------|-----------|-----------|---------|------------|------------|-------|
| Nember . | July | Aug | Sept | Oct | Nov | Total | Dec | Jan | Feb | March | Total | April | May | June | Total | Total | mg |
| Alameda CWD | 249,470 | 202,471 | 172,856 | 196,906 | 128,757 | 950,460 | 124,019 | 86,763 | 159,221 | 357,073 | 727,076 | 250,869 | 500,357 | 610,960 | 1,362,186 | 3,039,722 | 6.2 |
| Brisbane | 15,978 | 14,384 | 16,706 | 16,544 | 13,184 | 76,796 | 12,653 | 14,064 | 11,028 | 10,162 | 47,907 | 12,011 | 12,750 | 17,730 | 42,491 | 167,194 | 0.3 |
| Burlingame | 163,845 | 154,386 | 180,921 | 147,599 | 113,613 | 760,364 | 112,796 | 106,268 | 96,638 | 99,211 | 414,913 | 115,570 | 115,892 | 171,511 | 402,973 | 1,578,250 | 3.2 |
| CWS - Bear Gulch | 578,472 | 546,115 | 676,212 | 477,075 | 243,567 | 2,521,441 | 202,808 | 175,804 | 89,420 | 98,132 | 566,164 | 162,180 | 292,741 | 557,592 | 1,012,512 | 4,100,117 | 8.4 |
| CWS - Mid Peninsula | 604,945 | 525,827 | 633,441 | 589,553 | 370,011 | 2,723,777 | 404,080 | 329,428 | 342,374 | 331,392 | 1,407,275 | 384,284 | 417,492 | 649,929 | 1,451,705 | 5,582,756 | 11.4 |
| CWS - South SF 2 | 257,582 | 260,571 | 300,684 | 251,914 | 232,894 | 1,303,645 | 234,273 | 203,197 | 194,014 | 206,413 | 837,897 | 217,264 | 199,006 | 280,641 | 696,911 | 2,838,453 | 5.8 |
| Coastside CWD | 68,203 | 64,979 | 73,514 | 58,631 | 65,725 | 331,052 | 38,634 | 21,306 | 19,587 | 18,602 | 98,129 | 17,286 | 36,365 | 41,510 | 95,161 | 524,342 | 1.0 |
| Daly City 2 | 271,584 | 241,220 | 267,840 | 248,135 | 233,265 | 1,262,044 | 225,214 | 256,985 | 215,211 | 217,321 | 914,731 | 250,460 | 218,854 | 246,342 | 715,656 | 2,892,431 | 5.9 |
| East Palo Alto | 73,096 | 66,627 | 73,425 | 61,910 | 54,011 | 329,069 | 54,456 | 55,230 | 48,134 | 51,351 | 209,171 | 58,506 | 61,022 | 77,143 | 196,671 | 734,911 | 1.5 |
| Estero MID | 209,174 | 194,581 | 224,548 | 178,164 | 111,308 | 917,775 | 128,507 | 114,174 | 99,743 | 97,612 | 440,036 | 124,869 | 150,356 | 236,648 | 511,873 | 1,869,684 | 3.8 |
| Guadalupe Valley MID | 12,979 | 11,389 | 13,513 | 12,436 | 9,944 | 60,261 | 10,247 | 8,330 | 5,438 | 7,042 | 31,057 | 8,666 | 7,041 | 10,974 | 26,681 | 117,999 | 0.2 |
| Hayward | 583,462 | 606,896 | 684,081 | 555,452 | 463,774 | 2,893,665 | 458,928 | 447,176 | 364,247 | 458,644 | 1,728,995 | 457,295 | 494,812 | 706,755 | 1,658,862 | 6,281,522 | 12.8 |
| Hillsborough | 158,511 | 151,191 | 177,923 | 139,460 | 58,322 | 685,407 | 53,000 | 36,566 | 36,100 | 36,774 | 162,440 | 48,410 | 72,731 | 156,876 | 278,017 | 1,125,864 | 2.3 |
| Menlo Park | 150,116 | 134,354 | 138,682 | 111,291 | 72,146 | 606,589 | 65,632 | 53,550 | 51,683 | 57,562 | 228,427 | 72,214 | 101,385 | 151,051 | 324,650 | 1,159,666 | 2.3 |
| Mid-Peninsula WD | 113,937 | 131,990 | 120,860 | 110,244 | 77,031 | 554,062 | 71,379 | 73,234 | 70,010 | 70,855 | 285,478 | 75,095 | 94,510 | 127,239 | 296,844 | 1,136,384 | 2.3 |
| Millbrae | 100,456 | 92,253 | 107,423 | 83,651 | 62,383 | 446,166 | 66,274 | 63,828 | 56,281 | 56,674 | 243.057 | 64,910 | 65,305 | 99,257 | 229,472 | 918,695 | 1.8 |
| k Milpitas | 220,524 | 246,874 | 250,888 | 242,688 | 185,725 | 1,146,699 | 157,085 | 185,001 | 176,065 | 137,048 | 655,199 | 176,617 | 159,560 | 223,169 | 559,346 | 2,361,244 | 4.8 |
| Mountain View | 340,851 | 370,375 | 381,680 | 368,766 | 273,877 | 1,735,549 | 218,939 | 229,726 | 204,369 | 183,409 | 836,443 | 243,233 | 224,229 | 335,272 | 802,734 | 3,374,726 | 6.9 |
| North Coast CWD | 94,959 | 98,849 | 96,522 | 97,420 | 89,740 | 477,490 | 87,278 | 82,426 | 83,293 | 75,967 | 328,964 | 83,067 | 88,148 | 101,307 | 272,522 | 1,078,976 | 2.2 |
| Palo Alto | 512,080 | 488,699 | 512,010 | 352,556 | 325,419 | 2,190,764 | 272,303 | 232,670 | 215,597 | 233,864 | 954,434 | 292,191 | 381,625 | 563,546 | 1,237,362 | 4,382,560 | 8.9 |
| Purissima Hills WD | 88,110 | 100,611 | 95,254 | 94,983 | 54,367 | 433,325 | 30,320 | 23,788 | 20,759 | 18,018 | 92,885 | 29,951 | 38,724 | 83,974 | 152,649 | 678,859 | 1.3 |
| Redwood City | 369,199 | 430,401 | 396,878 | 359,113 | 256,221 | 1,811,812 | 244,766 | 242,341 | 232,622 | 231,097 | 950,826 | 266,598 | 328,666 | 406,517 | 1,001,781 | 3,764,419 | 7.7 |
| San Bruno 2 | 125,772 | 122,845 | 120,726 | 108,089 | 105,950 | 583,382 | 91,492 | 97,453 | 90,710 | 87,591 | 367,246 | 90,941 | 92,436 | 125,638 | 309,015 | 1,259,643 | 2.5 |
| * San Jose MWS-North | 192,811 | 209,539 | 219,945 | 216,319 | 166,015 | 1,004,629 | 141,175 | 129,963 | 130,607 | 120,028 | 521,773 | 152,078 | 142,822 | 196,257 | 491,157 | 2,017,559 | 4.13 |
| Santa Clara | 99,098 | 98,119 | 97,912 | 90,823 | 62,436 | 448,388 | 71,246 | 50,640 | 81,061 | 68,562 | 271,509 | 88,645 | 82,579 | 87,805 | 259,029 | 978,926 | 2.0 |
| Stanford University | 75,318 | 71,272 | 74,712 | 66,920 | 50,456 | 338,678 | 39,992 | 42,358 | 40,621 | 45,274 | 168,245 | 48,034 | 59,798 | 80,333 | 188,166 | 695,089 | 1.4 |
| * Sunnyvale | 411,421 | 439,357 | 466,414 | 441,973 | 339,354 | 2,098,519 | 243,019 | 177,853 | 216,951 | 216,858 | 854,681 | 324,440 | 280,956 | 407,428 | 1,012,824 | 3,966,024 | 8.1 |
| Westborough WD | 28,735 | 25,737 | 39,011 | 34,399 | 23,682 | 151,564 | 32,932 | 32,068 | 19,787 | 29,165 | 113,952 | 27,585 | 23,013 | 39,371 | 89.969 | 355,485 | |
| Totals | | 6,101,912 | | | | 28,843,372 | 3,893,447 | 3,572,190 | | | 14,458,909 | 4,143,269 | 4,743,175 | | 15,679,219 | 58,981,500 | _ |
| | Seasonal Cor | nnarisons | | | Summer/Fall | | | | | Wi | nter | | | Spr | ng | Year | |
| | | | | | 2006-07 | 43,945,621 | | | | 2006-07 | 19,334,891 | | | 2006-07 | 22,498,624 | 85,779,136 | |
| | | | | | 2007-08 | 41,833,467 | | | | 2007-08 | 19,711,571 | | | 2007-08 | 23,073,285 | 84,618,323 | |
| | | | | | 2008-09 | 42,129,812 | | | | 2008-09 | 18,732,019 | | | 2008-09 | 19,172,178 | 80,034,009 | |
| | | | | | 2009-10 | 39,394,295 | | | | 2009-10 | 18,057,011 | | | 2009-10 | 16,469,283 | 73,920,589 | |
| | | | | | 2010-11 | 38,044,328 | | | | 2010-11 | 16,817,330 | | | 2010-11 | 16,303,549 | 71,165,207 | |
| | | | | | 2011-12 | 34,889,999 | | | | 2011-12 | 18,786,621 | | | 2011-12 | 16,953,589 | 70,630,209 | |
| | | | | | 2012-13 | 35,927,152 | | | | 2012-13 | 17,236,235 | | | 2012-13 | 19,027,049 | 72,190,436 | |
| | | | | | 2012-13 | 36,602,803 | | | | 2012-13 | 18,958,782 | | | 2012-13 | 17,488,648 | 73,050,233 | |
| | | | | | 2014-15 | 31,404,179 | | | | 2014-15 | 16,571,143 | | | 2014-15 | | | |
| | | | | | | | | | | | | | | | 14,502,045 | 62,477,367 | |
| | | | | | 2015-16 | 25,993,686 | | | | 2015-16 | 14,369,236 | | | 2015-16 | 14,124,948 | 54,487,870 | |
| | | | | | 2016-17 | 28,843,372 | | | | 2015-16 | 14,458,909 | | | 2015-16 | 15,679,219 | 58,981,500 | 120.8 |
| | Since 1983-8 | 4 | | ord Highs: | | 45,402,020 | | | | 1987-88 | 21,979,000 | ļ | | 1986-87 | 25,083,000 | 1986-87 | 185.3 |
| 1 | | | Rad | ord Lows: | 2015-16 | 25,993,686 | | | | 1983-84 | 13,429,000 | | | 1990-91 | 13,464,000 | 2015-16 | 111.6 |

Source: SFPUC Commercial Division Records

² 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. Totals shown include supplemental purchases for Daly City, CWS - South SF, and San Bruno. 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 | 1 <i>57,</i> 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 | 1 <i>7</i> .9 | 20,052 | 57.0 | 1984-85 | 82,759,358 | 169.6 | 189,989 | 4.2 |
| 1945-46 | 8,393,048 | 1 <i>7</i> .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 | <i>-7</i> .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 | | 120,984 | 11.1 | 2005-06 | 80,255,145 | 164.5 | 184,240 | -1.7 |
| 1966-67 | 54,652,405 | | 125,465 | 3.7 | 2006-07 | 85,779,136 | 175.8 | 196,922 | 6.9 |
| 1967-68 | 63,972,592 | | 146,861 | 17.1 | 2007-08 | 84,618,323 | 173.4 | 194,257 | -1.4 |
| 1968-69 | 61,630,346 | | 141,484 | -3.7 | 2008-09 | 80,034,009 | 164.0 | 183,733 | -5.4 |
| 1969-70 | 67,778,741 | | 155,599 | 10.0 | 2009-10 | 73,920,589 | 151.5 | 169,698 | -7.6 |
| 1707-70 | 07,770,741 | 130.7 | 133,377 | 10.0 | 2010-11 | 71,165,207 | 145.8 | | -3.7 |
| | | | | | 2010-11 | 70,630,209 | 144.7 | 163,373 162,145 | -0.8 |
| | | | | | 2011-12 | 72,190,436 | 144.7 | 165,726 | 2.2 |
| | | | | | 2012-13 | 73,050,233 | 147.9 | 167,700 | 1.2 |
| | | | | | 2013-14 | 62,477,367 | | | |
| | | | | | 2014-13 | 54,487,870 | 128.0 111. <i>7</i> | 143,428 125,087 | -1 <i>4</i> .5 -12.8 |
| | | | | | 2013-16 | 58,981,500 | 120.9 | 135,403 | 8.2 |
| | | | | | 2010-1/ | 20,701,300 | 1 20.9 | 133,403 | 5.2 |

^{*} 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 | <i>774,</i> 61 <i>5</i> | 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 |
| 2014-15 | 0 | 0 | 0 | 0 | 0.00 |
| 2015-16 | 38,981 | 146,803 | 83,663 | 269,447 | 0.55 |
| 2016-17 | 668,470 | 1,041,345 | 895,413 | 2,605,228 | 5.34 |

Starting in FY 2002-03, 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.

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, FY 2013-14, or FY 2014-15 due to dry conditions.

Source: BAWSCA FY 2016-17 Annual Survey

3. Total Water Supply and Demand

Table 3A: Historical Total Water Use by BAWSCA Agency (in ccf) Inclusive of unaccounted for water and supplemental purchases

| Member | 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 2014-15 | FY 2015-16 | FY 2016-17 | mge |
|-----------------------------|-----------------|-------------|-------------|-------------|-------------|-------------|---------------|-------------|---------------------|------------------|------------|------------|---|--------|
| San Mateo County | | | | | ' | | | | | | | | | |
| Brisbane / GVMID | 175,335 | 191,963 | 200,437 | 182,661 | 179,743 | 123,803 | 275,934 | 280,650 | 287,290 | 302,776 | 280,029 | 257,414 | 294,756 | 0.6 |
| Burlingame | 2,205,818 | 2,121,360 | 2,209,757 | 2,195,474 | 2,086,616 | 1,920,815 | 2,117,999 | 2,158,682 | 2,099,365 | 2,148,019 | 1,937,939 | 1,652,167 | 1,738,444 | |
| CWS - Bear Gulch | 5,783,871 | 5,925,540 | 6,673,025 | 6,867,205 | 6,413,044 | 5,762,738 | 5,794,705 | 6,004,849 | 6,116,162 | 6,259,793 | 5,267,634 | 4,194,432 | 4,506,722 | |
| CWS - Mid Peninsula | 7,738,445 | 7,945,376 | 8,085,040 | 7,813,188 | 7,621,387 | 7,062,049 | 6,956,546 | 6,905,680 | 6,046,107 | 6,956,723 | 6,016,058 | 5,325,284 | 5,539,001 | 11.3 |
| CWS - South SF | 4,234,118 | 3,886,698 | 4,052,652 | 4,035,772 | 3,927,339 | 3,689,071 | 3,731,044 | 3,682,415 | 3,620,826 | 3,616,258 | 3,270,666 | 2,944,723 | 2,862,074 | 5.8 |
| Coastside CWD | 1,171,523 | 1,111,523 | 1,263,875 | 1,202,915 | 1,055,296 | 986,484 | 894,746 | 896,631 | 996,377 | 997,259 | 877,579 | 817,339 | 812,567 | |
| Cordilleras | , , , , , | , , , , , | ,, | , . , | ,, | | Not BAWS | - | , | | , | , | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| Daly City | 3,697,158 | 3,331,582 | 3,490,594 | 3,731,419 | 3,553,600 | 3,270,878 | 3,093,734 | 3,364,817 | 3,512,566 | 3,349,433 | 2,895,051 | 3,141,794 | 3,167,719 | 6.49 |
| East Palo Alto | 751,516 | 927,742 | 976,874 | 996,587 | 938,629 | 842,883 | 863,282 | 907,662 | 1,010,939 | 720,040 | 766,380 | 690,728 | 730,899 | |
| Estero MID | 2,542,371 | 2,531,846 | 2,747,662 | 2,691,080 | 2,538,289 | 2,392,839 | 2,274,588 | 1,966,984 | 2,000,497 | 1,942,333 | 1,930,526 | 1,768,029 | 1,874,751 | 3.84 |
| Guadalupe Valley MID | 151,270 | 130,538 | 115,901 | 130,485 | 122,888 | 152,798 | 2,27 4,500 | 1,700,704 | | ided with Brisba | | 1,700,027 | 1,074,751 | 3.0- |
| Hillsborough | 1,657,074 | 1,936,854 | 1,630,593 | 1,665,884 | 1,786,177 | 1,893,039 | 1,743,929 | 1,470,409 | 1,609,532 | 1,599,812 | 1,226,777 | 1,050,944 | 1,139,003 | 2.33 |
| Los Trancos | 1,007,074 | 1,700,004 | 1,000,570 | 1,000,004 | 1,700,177 | | ided with CWS | | 1,007,002 | 1,077,012 | 1,220,777 | 1,030,744 | 1,107,000 | 2.00 |
| Menlo Park | 1,713,701 | 1,688,803 | 1,735,075 | 1,857,088 | 1,628,275 | 1,556,801 | 1,533,788 | 1,621,745 | 1,584,636 | 1,729,399 | 1,287,136 | 1,074,516 | 1,153,760 | 2.3 |
| Mid-Peninsula WD | 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 | 1,209,300 | 1,076,654 | 1,134,389 | |
| Millbrae | 1,191,005 | 1,291,729 | 1,194,450 | 1,199,327 | 1,179,720 | 1,101,551 | 1,087,971 | 1,046,254 | 1,125,147 | 1,146,741 | 1,003,049 | 899,785 | 930,695 | |
| North Coast CWD | 1,652,192 | 1,579,110 | 1,538,215 | 1,582,423 | 1,632,364 | 1,471,838 | 1,585,572 | 1,380,360 | 1,192,485 | 1,392,872 | 1,364,900 | 914,081 | 1,105,206 | |
| Redwood City | 5,436,566 | 5,315,929 | 5,701,245 | 5,823,781 | 5,091,014 | 4,891,124 | 4,734,338 | 4,719,085 | 5,057,308 | 4,730,885 | 4,099,699 | 3,790,431 | 4,114,869 | 8.43 |
| San Bruno | 1,171,626 | 1,868,846 | 1,821,102 | 1,908,564 | 1,877,662 | 1,780,704 | 1,771,040 | 1,770,007 | 1,752,095 | 1,747,722 | 1,529,900 | 1,519,903 | 1,429,544 | |
| Skyline | 71,748 | 76,938 | 80,966 | 76,864 | 1,077,002 | 1,7 00,7 04 | 1,771,040 | | uded with CWS | | 1,027,700 | 1,017,700 | 1,427,044 | 2.70 |
| Westborough WD | 531,903 | 459,831 | 532,529 | 457,299 | 485,493 | 394,878 | 408,487 | 440,796 | 441,233 | 433,980 | 377,034 | 390,753 | 356,722 | 0.73 |
| - | | | | ĺ | | · | · | | | | | | · | |
| Subtotal | 43,479,713 | 43,756,856 | 45,702,200 | 46,001,808 | 43,651,411 | 40,685,124 | 40,272,636 | 40,054,386 | 39,905,612 81.78 | 40,482,154 | 35,339,657 | 31,508,977 | 32,891,121 | |
| mgd | 89.10 | 89.67 | 93.66 | 94.27 | 89.46 | 83.38 | 82.53 | 82.08 | 01./0 | 82.96 | 72.42 | 64.57 | 67.40 | |
| Santa Clara County | | | | | | | | | | | | | | |
| Milpitas | 5,320,838 | 5,400,800 | 5,505,034 | 5,548,937 | 5,470,765 | 4,878,858 | 4,835,475 | 4,937,407 | 4,975,000 | 4,908,500 | 4,462,023 | 4,030,280 | 4,159,187 | |
| Mountain View | 5,730,268 | 5,750,554 | 6,116,445 | 5,774,334 | 5,547,956 | 5,080,734 | 5,025,675 | 5,232,110 | 5,234,742 | 5,263,373 | 4,435,583 | 3,854,816 | 4,125,019 | |
| Palo Alto | 6,236,965 | 6,180,611 | 6,778,100 | 6,620,815 | 6,001,341 | 5,715,348 | 5,811,182 | 5,948,461 | 5,750,761 | 5,981,585 | 5,091,582 | 4,356,931 | 4,672,228 | |
| Purissima Hills WD | 980,472 | 964,747 | 1,112,291 | 1,124,922 | 980,987 | 854,854 | 839,360 | 899,221 | 972,733 | 982,100 | 803,313 | 640,369 | 689,261 | 1.41 |
| San Jose | 2,360,722 | 2,362,632 | 2,569,248 | 2,674,031 | 2,437,246 | 2,187,918 | 2,239,892 | 2,356,648 | 2,354,211 | 2,676,663 | 2,521,675 | 2,391,807 | 2,325,602 | |
| Santa Clara | 11,278,162 | 11,540,998 | 12,007,298 | 11,782,654 | 10,852,916 | 10,139,329 | 10,197,067 | 10,575,495 | 10,798,039 | 10,757,505 | 9,768,702 | 8,817,463 | 9,141,873 | |
| Stanford | 1,571,164 | 1,446,902 | 1,576,978 | 1,722,672 | 1,573,920 | 1,545,411 | 1,558,914 | 1,604,702 | 1,624,555 | 1,553,272 | 1,396,374 | 1,073,556 | 1,148,562 | |
| Sunnyvale | 10,609,500 | 10,673,793 | 10,887,010 | 10,695,118 | 10,369,022 | 9,354,936 | 9,132,594 | 8,465,724 | 9,453,326 | 8,994,820 | 7,795,081 | 7,208,816 | 7,744,448 | 15.87 |
| Subtotal | 44,088,091 | 44,321,037 | 46,552,404 | 45,943,483 | 43,234,153 | 39,757,387 | 39,640,158 | 40,019,768 | 41,163,367 | 41,117,818 | 36,274,333 | 32,374,038 | 34,006,180 | 69.69 |
| mgd | 90.35 | 90.83 | 95.40 | 94.15 | 88.60 | 81.48 | 81.24 | 82.01 | 84.36 | 84.26 | 74.34 | 66.34 | 69.69 | |
| Alameda County | | | | | | | | | | | | | | |
| Alameda CWD | 22,450,662 | 23,112,968 | 24,048,399 | 23,829,489 | 22,126,618 | 20,665,490 | 20,921,497 | 21,108,246 | 21,209,862 | 20,274,011 | 16,751,709 | 15,804,948 | 16,986,244 | 34.81 |
| Hayward | 9,030,652 | 8,924,063 | 8,901,286 | 9,434,134 | 9,105,654 | 8,511,066 | 8,308,740 | 7,610,980 | 7,552,956 | 7,402,067 | 6,634,616 | 5,979,616 | 6,281,522 | 12.87 |
| Subtotal | 31,481,314 | 32,037,031 | 32,949,685 | 33,263,623 | 31,232,272 | 29,176,556 | 29,230,237 | 28,719,226 | 28,762,818 | 27,676,078 | 23,386,325 | 21,784,564 | 23,267,766 | |
| mgd | 64.52 | 65.65 | 67.52 | 68.17 | 64.00 | 59.79 | 59.90 | 58.85 | 58.94 | 56.72 | 47.93 | 44.64 | 47.68 | |
| - | | | | | | | | | | | | | | |
| Total | 119,049,118 | 120,114,923 | 125,204,289 | 125,208,913 | 118,117,836 | 109,619,067 | 109,143,031 | 108,793,380 | 109,831,797 | 109,276,050 | 95,000,315 | 85,667,579 | 90,165,067 | 184.78 |
| mgd | 243.97 | 246.15 | 256.58 | 256.59 | 242.06 | 224.64 | 223.67 | 222.95 | 225.08 | 223.94 | 194.69 | 175.56 | 184.78 | |
| % Change | -4.5 | 0.9 | 4.2 | 0.0 | -5.7 | -7.2 | -0.4 | -0.3 | 1.0 | -0.5 | -13.1 | -9.8 | 5.2 | |
| Note: Totals inclusive of s | supplemental pu | ırchases. | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Source: BAWSCA Annua | I Surveys | | | | | | | | | | | | | |

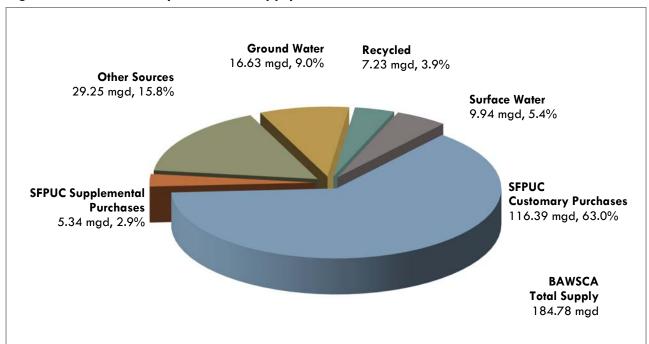
Table 3B: Historical Total Water Use among BAWUA/BAWSCA Agencies*
1975-76 to Present

| 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, <i>75</i> 1 | 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 | 122,510,157 | 251.1 | 281,245 | -1.3 |
| 2003-04 | 129222361 | 244.0 | 296,654 | 5.5 |
| 2004-05 | 119,049,118 | 246.2 | 273,299 | -7.9 |
| 2005-06 | 120,114,923 | 256.6 | 275,746 | 0.9 |
| 2006-07 | 125,204,289 | 256.6 | 287,429 | 4.2 |
| 2007-08 | 125,208,913 | 242.1 | 287,440 | 0.0 |
| 2008-09 | 118,117,836 | 224.6 | 271,161 | -5.7 |
| 2009-10 | 109,619,067 | 223.7 | 251,651 | -7.2 |
| 2010-11 | 109,143,031 | 223.0 | 250,558 | -0.4 |
| 2011-12 | 108,793,380 | 225.1 | 249,755 | -0.3 |
| 2012-13 | 109,831,797 | 223.9 | 252,139 | 1.0 |
| 2013-14 | 109,276,050 | 194.7 | 250,863 | -0.5 |
| 2014-15 | 95,000,315 | 175.6 | 218,091 | -13.1 |
| 2015-16 | 85,667,579 | 184.8 | 196,666 | -9.8 |
| 2016-17 | 90,165,067 | 184.8 | 206,991 | 5.2 |
| *Inclusive | of unaccounted f | or water o | and | |

supplemental purchases (see Table 2D).

Source: BAWUA/BAWSCA Annual Surveys

Figure 3C: Water Use by Source of Supply - FY 2016-17



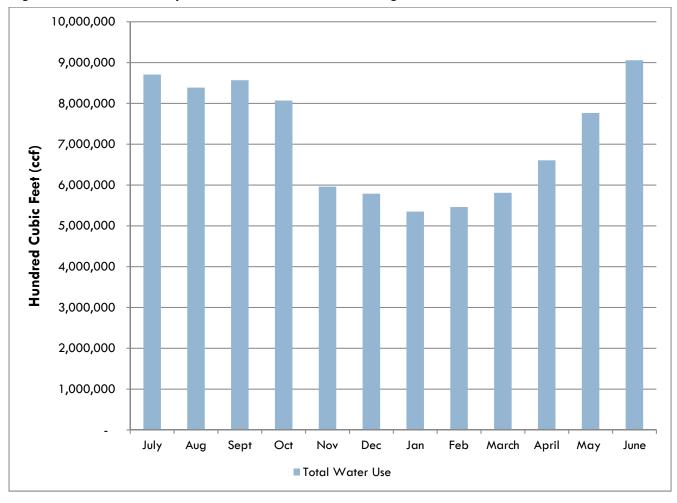


Figure 3D: Total Monthly Water Use for All BAWSCA Agencies - FY 2016-17

Table 3C: Water Use by Source of Supply - FY 2016-17 (in ccf)

| | | SF RWS | Purchases | | Local | Sources (non- | SF RWS) | | | Othe | Sources | ces Totals | | | |
|-----------------------------|-------------------|----------------------|---------------|--------------|--------|---------------|---------|-----------|--------|------------|---------|--------------------|-----------|----------|--|
| | | | % of | Ground | % of | Surface | % of | Recycled | % of | Other | % of | Total | mgd | % of | |
| Member | Customary | Supplemental | Supply | Water | Supply | Water | Supply | Water | Supply | Sources | Supply | Supply | Equiv | Tota | |
| San Mateo County | | | | | | | | | | | | | | | |
| Brisbane / GVMID | 294,756 | 0 | 100.0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0.0% | 294,756 | 0.60 | 0.33% | |
| Burlingame | 1,592,044 | 0 | 91.6% | 0 | 0% | 0 | 0% | 146,400 | 8% | 0 | 0% | 1,738,444 | 3.56 | 1.93% | |
| CWS - Bear Gulch | 4,118,677 | 0 | 91.4% | 0 | 0% | 388,045 | 8.6% | 0 | 0% | 0 | 0.0% | 4,506,722 | 9.24 | 5.00% | |
| CWS - Mid Peninsula | 5,539,001 | 0 | 100.0% | 0 | 0% | 0 | 0.0% | 0 | 0% | 0 | 0% | 5,539,001 | 11.35 | 6.14% | |
| CWS - South SF | 2,193,604 | 668,470 | 76.6% | 0 | 0.0% | 0 | 0% | 0 | 0% | 0 | 0% | 2,862,074 | 5.87 | 3.17% | |
| Coastside CWD | 515,655 | 0 | 63.5% | 10,227 | 1.3% | 286,685 | 35.3% | 0 | 0% | 0 | 0.0% | 812,567 | 1.67 | 0.90% | |
| Daly City | 1,867,312 * | 1,041,345 | 58.9% | 0 | 0.0% | 0 | 0% | 259,062 | 8.2% | 0 | 0.00% | 3,167,719 | 6.49 | 3.51% | |
| East Palo Alto** | 734,911 | 0 | 100.0% | 0 | 0.00% | 0 | 0% | 0 | 0% | 0 | 0% | 734,911 | 1.51 | 0.82% | |
| Estero MID | 1,874,751 | 0 | 100.0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 1,874,751 | 3.84 | 2.08% | |
| Hillsborough | 1,139,003 | 0 | 100.0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 1,139,003 | 2.33 | 1.26% | |
| Menlo Park | 1,153,760 | 0 | 100.0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0.0% | 1,153,760 | 2.36 | 1.28% | |
| Mid-Peninsula WD | 1,134,389 | 0 | 100.0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 1,134,389 | 2.32 | 1.26% | |
| Millbrae | 918,695 | 0 | 98.7% | 0 | 0% | 0 | 0% | 12,000 | 1% | 0 | 0% | 930,695 | 1.91 | 1.03% | |
| North Coast CWD | 1,089,419 | 0 | 98.6% | 0 | 0% | 0 | 0% | 15,787 | 1% | 0 | 0% | 1,105,206 | 2.26 | 1.23% | |
| Redwood City | 3,820,098 | 0 | 92.8% | 0 | 0% | 0 | 0% | 294,771 | 7.2% | 0 | 0% | 4,114,869 | 8.43 | 4.56% | |
| San Bruno | 383,693 | 895,413 | 26.8% | 129,317 | 9.0% | 0 | 0% | 0 | 0% | 21,121 | 1.5% | | 2.93 | 1.59% | |
| Westborough WD | 356,722 | 0 | 100.0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 356,722 | 0.73 | 0.40% | |
| Subtotal | 28,726,490 | 2,605,228 | 95.2% | 139,544 | 0.4% | 674,730 | 2.1% | 728,020 | 2.21% | 21,121 | 0.1% | 32,895,133 | 67.41 | 36.48% | |
| mgd equiv | 58.87 | 5.34 | 75.270 | 0.29 | 0.470 | 1.38 | 2.170 | 1.49 | 2.2170 | 0.04 | 0.170 | 67.41 | 07.41 | 30.407 | |
| Santa Clara County | | | | | | | | | | | | | | | |
| Milpitas | 2,391,431 | 0 | 57.5% | 0 | 0% | 0 | 0% | 361,682 | 8.7% | 1,406,074 | 33.8% | 4,159,187 | 8.52 | 4.61% | |
| Mountain View | 3,485,016 | 0 | 84.5% | 54,628 | 1.3% | 0 | 0% | 193,460 | 5% | 391,915 | 9.5% | 4,125,019 | 8.45 | 4.57% | |
| Palo Alto | 4,382,560 | 0 | 93.8% | 0 | 0% | 0 | 0% | 289,668 | 6.2% | 0 | 0% | 4,672,228 | 9.57 | 5.18% | |
| Purissima Hills WD | 689,261 | 0 | 100.0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 689,261 | 1.41 | 0.76% | |
| San Jose | 2,024,785 | 0 | 87.1% | 0 | 0.0% | 0 | 0% | 300,817 | 12.9% | 0 | 0% | 2,325,602 | 4.77 | 2.58% | |
| Santa Clara | 970,987 | 0 | 10.6% | 4,752,405 | 52.0% | 0 | 0% | 1,497,626 | 16.4% | 1,920,855 | 21.0% | 9,141,873 | 18.73 | 10.14% | |
| Stanford | 695,088 | 0 | 60.5% | 198,507 | 17.3% | 254,967 | 22.2% | 0 | 0% | 0 | 0% | 1,148,562 | 2.35 | 1.27% | |
| Sunnyvale | 4,066,178 | 0 | 52.5% | 61,977 | 0.8% | 0 | 0% | 157,626 | 2.0% | 3,458,667 | 44.7% | 7,744,448 | 15.87 | 8.59% | |
| Subtotal | 18,705,306 | 0 | 55.0% | 5,067,517 | 14.9% | 254,967 | 0.7% | 2,800,879 | 8.2% | 7,177,511 | 21.1% | 34,006,180 | 69.69 | 37.71% | |
| mgd equiv | 38.33 | 0.00 | | 10.38 | | 0.52 | | 5.74 | | 14.71 | | 69.69 | | | |
| Alameda County | | | | | | | | | | | | | | | |
| Alameda CWD | 3,081,217 | 0 | 18.1% | 2,908,717 | 17.1% | 3,923,142 | 23.1% | 0 | 0% | 7,073,168 | 41.6% | 16,986,244 | 34.81 | 18.8% | |
| Hayward | 6,281,522 | 0 | 100.0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0.0% | 6,281,522 | 12.87 | 7.0% | |
| Subtotal | 9,362,739 | 0 | 40.2% | 2,908,717 | 12.5% | 3,923,142 | 16.9% | 0 | 0% | 7,073,168 | 30.4% | 23,267,766 | 47.68 | 25.80% | |
| mgd equiv | 19.19 | 0.00 | 10.270 | 5.96 | 12.070 | 8.04 | | | | 14.50 | | 47.68 | | | |
| Total | 56,794,535 | 2,605,228 | 65.9% | 8,115,778 | 9.0% | 4,852,839 | 5.4% | 3,528,899 | 3.9% | 14,271,800 | 15.8% | 90,169,079 | 184.78 | 100.0% | |
| mgd equiv | 116.39 | 5.34 | 2211,7 | 16.63 | | 9.94 | | 7.23 | 211,0 | 29.25 | | 184.78 | | | |
| *The total recycled water i | noted here is the | ortion that actually | enlaces a set | able supply | | | | | | | | † Purchase of SF R | W/S cups! | v from | |
| **Excludes resale SFPUC su | | mon mar actually t | epiaces a poi | able supply. | | | | | | | | NCCWD. | 110 suppi | , 110111 | |
| Source: BAWSCA FY 2016- | | | | | | | | | | | | | | | |

Table 3D: Total Monthly Water Use - FY 2016-17 (in ccf)

| Member | July | Aug | Sept | Oct | Nov | Dec | Jan | Feb | March | April | May | June | Total | mgd |
|---------------------|-----------|------------------|-----------|-----------|-----------|----------------|----------------|----------------|-----------|------------------------|-----------------|------------|------------|--------|
| San Mateo County | | | | | | | | | | | | | | |
| Brisbane / GVMID | 25,773 | 30,219 | 28,980 | 23,128 | 22,900 | 22,394 | 16,466 | 17,204 | 20,677 | 19,791 | 28,704 | 38,520 | 294,756 | 0.60 |
| Burlingame | 174,995 | 177,179 | 167,668 | 149,338 | 124,710 | 118,006 | 115,388 | 107,280 | 122,444 | 128,241 | 169,884 | 183,311 | 1,738,444 | 3.56 |
| CWS - Bear Gulch | 610,309 | 597,173 | 552,627 | 386,520 | 233,029 | 183,096 | 177,964 | 155,032 | 208,225 | 271,519 | 522,760 | 608,468 | 4,506,722 | 9.24 |
| CWS - Mid Peninsula | 592,291 | 586 , 177 | 550,138 | 467,139 | 373,960 | 354,745 | 352,805 | 320,491 | 367,250 | 390,894 | <i>57</i> 1,038 | 612,073 | 5,539,001 | 11.35 |
| CWS - South SF | 274,856 | 276,888 | 269,233 | 253,391 | 212,570 | 215,917 | 202,812 | 186,362 | 216,352 | 210,747 | 264,497 | 278,449 | 2,862,074 | 5.87 |
| Coastside CWD | 81,738 | 92,206 | 77,099 | 79,265 | 52,099 | 58,529 | 47,527 | 45,615 | 61,270 | 55,254 | 76,537 | 85,428 | 812,567 | 1.67 |
| Daly City | 293,802 | 306,182 | 278,620 | 248,844 | 226,265 | 259,402 | 219,708 | 225,665 | 256,422 | 225,532 | 302,046 | 325,231 | 3,167,719 | 6.49 |
| East Palo Alto | 73,096 | 66,627 | 73,425 | 61,910 | 54,011 | 54,456 | 55,230 | 48,134 | 51,351 | 58,506 | 61,022 | 77,143 | 734,911 | 1.51 |
| Estero MID | 194,581 | 224,548 | 178,164 | 111,308 | 128,507 | 114,174 | 99,743 | 97,612 | 124,869 | 150,356 | 236,648 | 214,241 | 1,874,751 | 3.84 |
| Hillsborough | 151,191 | 177,923 | 139,460 | 58,322 | 53,000 | 36,566 | 36,100 | 36,774 | 48,410 | 72,731 | 156,876 | 171,650 | 1,139,003 | 2.33 |
| Menlo Park | 142,352 | 137,888 | 125,690 | 93,017 | 66,162 | 58,495 | <i>57,</i> 702 | 52,383 | 66,604 | 75,067 | 132,870 | 145,530 | 1,153,760 | 2.36 |
| Mid-Peninsula WD | 120,096 | 119,435 | 110,971 | 98,512 | 75,607 | <i>7</i> 1,811 | 73,026 | 67,762 | 74,845 | <i>7</i> 9,81 <i>7</i> | 117,133 | 125,374 | 1,134,389 | 2.32 |
| Millbrae | 101,456 | 93,253 | 108,423 | 84,651 | 63,383 | 67,274 | 64,828 | <i>57</i> ,281 | 57,674 | 65,910 | 66,305 | 100,257 | 930,695 | 1.91 |
| North Coast CWD | 95,649 | 100,679 | 95,475 | 94,681 | 87,148 | 83,203 | 83,163 | 76,173 | 83,067 | 88,096 | 99,462 | 118,410 | 1,105,206 | 2.26 |
| Redwood City | 487,020 | 450,953 | 405,207 | 287,323 | 251,747 | 244,542 | 235,230 | 232,818 | 270,042 | 340,566 | 441,007 | 468,414 | 4,114,869 | 8.43 |
| San Bruno | 138,773 | 136,916 | 119,401 | 119,575 | 105,041 | 108,297 | 103,043 | 102,577 | 105,544 | 103,024 | 138,805 | 148,548 | 1,429,544 | 2.93 |
| Westborough WD | 25,737 | 39,011 | 34,399 | 23,682 | 32,932 | 32,068 | 19,787 | 29,165 | 27,585 | 23,013 | 39,371 | 29,972 | 356,722 | 0.73 |
| Subtotal | 3,583,715 | 3,613,257 | 3,314,980 | 2,640,606 | 2,163,071 | 2,082,975 | 1,960,522 | 1,858,328 | 2,162,631 | 2,359,064 | 3,424,965 | 3,731,019 | 32,895,133 | 67.41 |
| % of Annual Use | 11% | 11% | 10% | 8% | 7% | 6% | 6% | 6% | 7% | 7% | 10% | 11% | | |
| Santa Clara County | | | | | | | | | | | | | | |
| Milpitas | 427,677 | 425,182 | 465,636 | 354,302 | 351,114 | 293,465 | 282,904 | 239,602 | 293,419 | 273,020 | 354,386 | 398,480 | 4,159,187 | 8.52 |
| Mountain View | 459,468 | 474,326 | 441,081 | 327,194 | 253,918 | 256,043 | 227,902 | 206,701 | 272,437 | 259,635 | 413,838 | 532,476 | 4,125,019 | 8.45 |
| Palo Alto | 544,077 | 514,580 | 538,990 | 375,866 | 347,262 | 293,976 | 254,160 | 236,806 | 255,759 | 315,622 | 406,571 | 588,559 | 4,672,228 | 9.57 |
| Purissima Hills WD | 103,548 | 95,254 | 94,983 | 54,367 | 30,320 | 23,788 | 20,759 | 18,018 | 29,951 | 38,724 | 83,974 | 95,575 | 689,261 | 1.41 |
| San Jose | 223,147 | 295,051 | 230,806 | 231,854 | 153,426 | 165,603 | 135,389 | 131,734 | 154,753 | 159,858 | 206,108 | 237,873 | 2,325,602 | 4.77 |
| Santa Clara | 925,267 | 1,040,507 | 902,837 | 853,770 | 635,989 | 651,656 | 474,280 | 596,791 | 592,859 | 691,363 | 818,369 | 958,185 | 9,141,873 | 18.73 |
| Stanford | 142,214 | 158,295 | 135,149 | 124,282 | 64,146 | 45,900 | 48,812 | 43,935 | 47,938 | 59,922 | 109,091 | 168,878 | 1,148,562 | 2.35 |
| Sunnyvale | 823,037 | 834,837 | 799,157 | 629,230 | 489,361 | 472,267 | 463,043 | 414,601 | 519,606 | 545,339 | 817,040 | 936,930 | 7,744,448 | 15.87 |
| Subtotal | 3,648,435 | 3,838,032 | 3,608,639 | 2,950,865 | 2,325,536 | 2,202,698 | 1,907,249 | 1,888,188 | 2,166,722 | 2,343,483 | 3,209,377 | 3,916,956 | 34,006,180 | 69.69 |
| % of Annual Use | 11% | 11% | 11% | 9% | 7% | 6% | 6% | 6% | 6% | 7% | 9% | 12% | | |
| Alameda County | | | | | | | | | | | | | | |
| Alameda CWD | 1,808,022 | 1,804,546 | 1,712,834 | 1,500,000 | 1,159,927 | 1,127,274 | 1,093,985 | 972,995 | 1,118,717 | 1,174,733 | 1,687,300 | 1,825,896 | 16,986,229 | 34.81 |
| Hayward | 583,462 | 606,896 | 684,081 | 555,452 | 463,774 | 458,928 | 447,176 | 364,247 | 458,644 | 457,295 | 494,812 | 706,755 | 6,281,522 | 12.87 |
| Subtotal | 2,391,484 | 2,411,442 | 2,396,915 | 2,055,452 | 1,623,701 | 1,586,202 | 1,541,161 | 1,337,242 | 1,577,361 | 1,632,028 | 2,182,112 | 2,532,651 | 23,267,751 | 47.68 |
| % of Annual Use | 10% | 10% | 10% | 9% | 7% | 7% | 7% | 6% | 7% | 7% | 9% | 11% | | |
| Total | 9,623,634 | 9,862,731 | 9,320,534 | 7,646,923 | 6,112,308 | 5,871,875 | 5,408,932 | 5,083,758 | 5,906,714 | 6,334,575 | 8,816,454 | 10,180,626 | 90,169,064 | 184.78 |
| | 11% | 11% | 10% | 8% | 7% | 7% | 6% | 6% | 7% | 7% | 10% | 11% | | |
| % of Annual Use | 11% | 11/0 | | | | | | | | | | | | |

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

| Member | FY 2020-21 | FY 2025-26 | FY 2030-31 | FY 2035-36 | FY 2040-41 |
|---------------------|---------------|------------|------------|------------|---------------|
| San Mateo County | | | | | |
| Brisbane / GVMID | 0.78 | 0.95 | 0.95 | 0.94 | 0.94 |
| Burlingame | 4.79 | 4.91 | 5.04 | 5.19 | 5.23 |
| CWS - Bear Gulch | 11.70 | 11.71 | 11.82 | 11.95 | 12.10 |
| CWS - Mid-Peninsula | 15.44 | 15.46 | 15.61 | 15.83 | 16.12 |
| CWS - South SF | 6.27 | 6.29 | 6.36 | 6.46 | 6.58 |
| CWS Total | 33.41 | 33.46 | 33.79 | 34.24 | 34.80 |
| Coastside CWD | 2.19 | 2.19 | 2.19 | 2.19 | 2.19 |
| Daly City | 4.29 | 4.29 | 4.29 | 4.29 | 4.29 |
| East Palo Alto | 3.00 | 4.00 | 4.00 | 4.00 | 4.00 |
| Estero MID | 4.22 | 4.21 | 4.18 | 4.19 | 4.20 |
| Hillsborough | 3.09 | 3.05 | 3.02 | 3.00 | 2.99 |
| Menlo Park | 4.47 | 4.47 | 4.47 | 4.47 | 4.47 |
| Mid-Peninsula WD | 3.06 | 3.18 | 3.26 | 3.35 | 3.42 |
| Millbrae | 2.60 | 2.70 | 2.70 | 2.80 | 3.00 |
| North Coast CWD | 2.91 | 2.97 | 3.03 | 3.09 | 3.20 |
| Redwood City | 9.97 | 10.25 | 10.36 | 10.54 | 10.79 |
| San Bruno | 2.38 | 2.69 | 3.03 | 3.25 | 3.25 |
| Westborough WD | 0.76 | 0.76 | 0.76 | 0.75 | 0.75 |
| Subtotal | 81.92 | 84.08 | 85.07 | 86.29 | 87.52 |
| Santa Clara County | | | | | |
| Milpitas | 9.23 | 9.23 | 9.23 | 9.23 | 9.23 |
| Mountain View | 8.52 | 8.67 | 8.90 | 9.16 | 9.47 |
| Palo Alto | 10.60 | 10.20 | 9.90 | 9.70 | 9.50 |
| Purissima Hills WD | 1. <i>7</i> 8 | 1.75 | 1.72 | 1.71 | 1. <i>7</i> 1 |
| San Jose | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 |
| Santa Clara | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 |
| Stanford | 2.00 | 2.15 | 2.29 | 2.44 | 2.59 |
| Sunnyvale | 9.93 | 10.95 | 10.95 | 10.95 | 10.95 |
| Subtotal | 51.06 | 51.95 | 51.99 | 52.19 | 52.45 |
| Alameda County | | | | | |
| Alameda CWD | 7.68 | 8.26 | 8.84 | 9.42 | 10.00 |
| Hayward | 21.52 | 22.80 | 23.58 | 24.18 | 25.38 |
| Subtotal | 29.20 | 31.06 | 32.42 | 33.60 | 35.38 |
| Total | 162.18 | 167.09 | 169.48 | 172.08 | 175.35 |
| Total w/o SJ & SC | 153.18 | 158.09 | 160.48 | 163.08 | 166.35 |

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

Groundwater Production

| Member | FY 2020-21 | FY 2025-26 | FY 2030-31 | FY 2035-36 | FY 2040-41 |
|---------------------|-----------------|------------|------------|------------|------------|
| San Mateo County | | | | | |
| CWS - South SF | 1.37 | 1.37 | 1.37 | 1.37 | 1.37 |
| Coastside CWD | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Daly City | 2.20 | 2.20 | 2.20 | 2.20 | 2.20 |
| East Palo Alto | 0.10 | 0.20 | 0.20 | 0.20 | 0.20 |
| San Bruno | 1.50 | 1.50 | 1.50 | 1.67 | 2.02 |
| Subtotal | 5.18 | 5.28 | 5.28 | 5.45 | 5.80 |
| Santa Clara County | | | | | |
| Milpitas | 0.60 | 0.73 | 2.15 | 2.46 | 2.78 |
| Mountain View | 0.51 | 0.51 | 0.52 | 0.54 | 0.55 |
| San Jose | 0.85 | 1.71 | 2.61 | 3.56 | 4.55 |
| Santa Clara | 11.86 | 13.92 | 14.46 | 15.01 | 15.43 |
| Sunnyvale | 0.40 | 0.30 | 0.30 | 0.30 | 0.30 |
| Subtotal | 14.22 | 17.16 | 20.03 | 21.87 | 23.61 |
| Alameda County | | | | | |
| Alameda CWD | 9.10 | 9.10 | 9.10 | 9.10 | 9.10 |
| Total | 28.50 | 31.54 | 34.41 | 36.42 | 38.51 |
| Source: BAWSCAFY 20 | 16-17 Annual Sc | urvey | | | |

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

Surface Water Production

| Member | FY 2020-21 | FY 2025-26 | FY 2030-31 | FY 2035-36 | FY 2040-41 |
|---------------------------|------------------|------------|------------|------------|------------|
| San Mateo County | | | | | |
| CWS - Bear Gulch 1 | 1.13 | 1.13 | 1.13 | 1.13 | 1.13 |
| Coastside CWD 2 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 |
| Subtotal | 1.66 | 1.66 | 1.66 | 1.66 | 1.66 |
| Alameda County | | | | | |
| Alameda CWD 3 | 5.20 | 5.20 | 5.20 | 5.20 | 5.20 |
| Total | 6.86 | 6.86 | 6.86 | 6.86 | 6.86 |
| 1 Bear Gulch | | | | | |
| 2 Pilarcitos/Crystal Spri | ngs | | | | |
| 3 Del Valle Reservoir | | | | | |
| | | | | | |
| Source: BAWSCA FY 20 | 016-17 Annual Si | urvey | | | |

Table 3E-4: Demand Projections by Source (in mgd)
Recycled Water

| Member | FY 2020-21 | FY 2025-26 | FY 2030-31 | FY 2035-36 | FY 2040-41 |
|----------------------|-----------------|------------|------------|------------|---------------|
| San Mateo County | | | | | |
| Burlingame | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 |
| Daly City | 6.16 | 6.16 | 6.16 | 6.16 | 6.16 |
| Millbrae | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| North Coast CWD | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 |
| Redwood City | 0.80 | 0.96 | 1.12 | 1.28 | 1.44 |
| Subtotal | 7.37 | 7.53 | 7.69 | 7.86 | 8.02 |
| Santa Clara County | | | | | |
| Milpitas | 1.03 | 1.78 | 1.97 | 2.21 | 2.40 |
| Mountain View | 0.89 | 0.97 | 0.97 | 0.97 | 0.97 |
| Palo Alto | 0.76 | 0.76 | 0.76 | 0.76 | 0.76 |
| San Jose | 1.04 | 1.20 | 1.38 | 1.56 | 1. <i>7</i> 6 |
| Santa Clara | 4.64 | 5.09 | 5.45 | 5.80 | 6.16 |
| Sunnyvale | 1.30 | 1.40 | 1.50 | 1.50 | 1.50 |
| Subtotal | 9.66 | 11.20 | 12.03 | 12.80 | 13.55 |
| Alameda County | | | | | |
| Hayward | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 |
| | | | | | |
| Total | 20.12 | 21.83 | 22.82 | 23.76 | 24.67 |
| Source: BAWSCA FY 20 | 016-17 Annual S | urvey | | | |

Table 3E-5: Demand Projections by Source (in mgd)
Other Sources

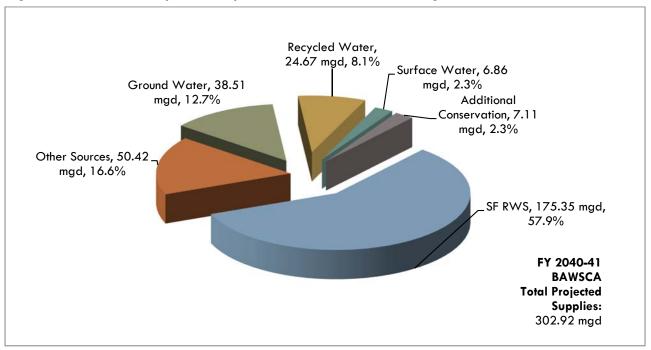
| 0.05 5.25 1.07 4.21 1.29 9.84 21.66 | 0.05 6.50 1.07 4.21 1.32 11.36 24.46 | 0.05 8.30 1.07 4.21 1.35 11.36 26.29 | 11.36 |
|---|--|--|---------------------------------------|
| 5.25 1.07 4.21 1.29 9.84 | 6.50 1.07 4.21 1.32 11.36 | 8.30 1.07 4.21 1.35 11.36 | 8.30 1.07 4.21 1.38 11.36 |
| 1.07 4.21 1.29 9.84 | 1.07 4.21 1.32 11.36 | 1.07 4.21 1.35 11.36 | 1.07 4.21 1.38 11.36 |
| 1.07 4.21 1.29 9.84 | 1.07 4.21 1.32 11.36 | 1.07 4.21 1.35 11.36 | 1.07 4.21 1.38 11.36 |
| 4.21 1.29 9.84 | 4.21 1.32 11.36 | 4.21 1.35 11.36 | 4.21 1.38 11.36 |
| 1.29 9.84 | 1.32 11.36 | 1.35 11.36 | 1.38 11.36 |
| 9.84 | 11.36 | 11.36 | 1.38 11.36 26.32 |
| | | | |
| 21.66 | 24.46 | 26.29 | 26.32 |
| | | | |
| | | | |
| 23.49 | 24.41 | 24.23 | 24.05 |
| 45.20 | 48.92 | 50.57 | 50.42 |
| | | | |
| ater | | | |
| desalination | | | |
| | | | |
| | | | |
| | rater desalination | vater | vater |

Table 3E-6: Demand Projections by Source (in mgd)

Summary

| Source | FY 2020-21 | FY 2025-26 | FY 2030-31 | FY 2035-36 | FY 2040-41 |
|-------------------------|----------------|------------|------------|--------------|--------------|
| SF RWS | 162.18 | 167.09 | 169.48 | 172.08 | 175.35 |
| Groundwater | 28.50 | 31.54 | 34.41 | 36.42 | 38.51 |
| Surface Water | 6.86 | 6.86 | 6.86 | 6.86 | 6.86 |
| Recycled | 20.12 | 21.83 | 22.82 | 23.76 | 24.67 |
| Other | 39. <i>7</i> 1 | 45.20 | 48.92 | 50.57 | 50.42 |
| Additional Conservation | 4.10 | 5.01 | 5.79 | 6.7 1 | <i>7</i> .11 |
| Total | 261.47 | 277.53 | 288.28 | 296.39 | 302.92 |
| Source: BAWSCA FY 2016- | 17 Annual Sur | veys | | | |

Figure 3E: Demand Projections by Source - FY 2040-41 (in mgd)



4. Current Water Use by Customer Class

Figure 4A: Potable Water Use by Customer Class - FY 2016-17

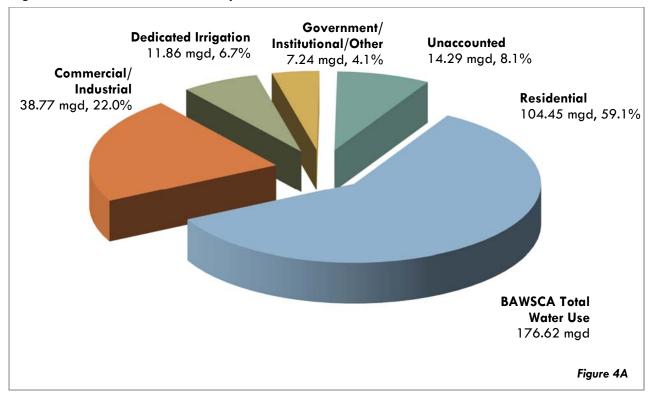


Figure 4B: Total Water Use by Customer Class - FY 2016-17

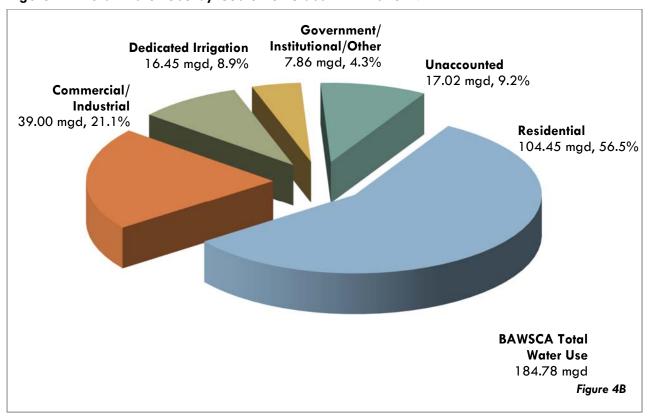


Figure 4C: Potable Water Use by Sector for BAWSCA Agencies - FY 2016-17

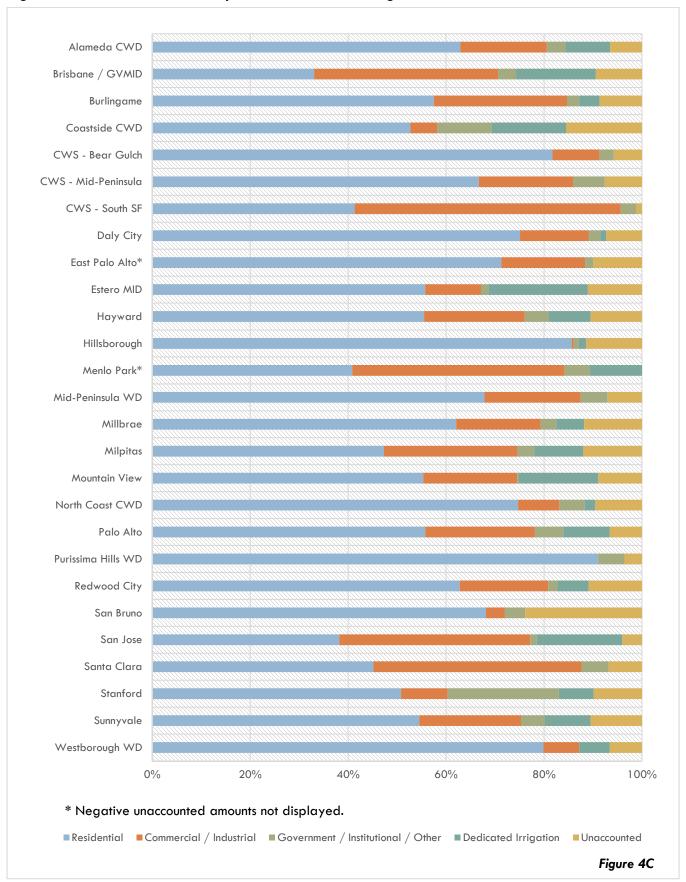


Table 4A: Potable Water Use by Customer Class — FY 2016-17 (in ccf)

| | | | Residential | | | | | n-Residential | | | Total Potable Consumptio | |
|---------------------------|------------------|------------|-------------|----------------|-----------------|---------------|-----------------|-----------------|------------------|-------------|--------------------------|-------|
| | Single | | | | | Comm'l/Ind'l | Gov't/ | | Dedicated | | | |
| Member | Family | Family | Subtotal | Commercial | Industrial | Subtotal | Instit'l/Other | Subtotal | Irrigation† | Unaccounted | | mge |
| San Mateo County | | | | | | | | | | | | |
| Brisbane / GVMID | 78,802 | 18,623 | 97,425 | 110,718 | 0 | 110,718 | 10,803 | 121,521 | 48,045 | 27,765 | 294,756 | 0.60 |
| Burlingame | 615,153 | 300,251 | 915,404 | 223,304 | 209,714 | 433,018 | 39,480 | 472,498 | 66,869 | 137,273 | 1,592,044 | 3.20 |
| CWS - Bear Gulch | 3,571,896 | 111,874 | 3,683,770 | 430,246 | 836 | 431,082 | 118,413 | 549,495 | 10,355 | 263,102 | 4,506,722 | 9.24 |
| CWS - Mid-Peninsula | 2,888,154 | 805,265 | 3,693,419 | 1,051,744 | 18,196 | 1,069,940 | 355,830 | 1,425,770 | 0 | 419,812 | 5,539,001 | 11.3 |
| CWS - South SF | 1,035,542 | 147,258 | 1,182,800 | 1,275,774 | 280,079 | 1,555,853 | 92,621 | 1,648,474 | 0 | 30,800 | 2,862,074 | 5.87 |
| Coastside CWD | 387,019 | 40,939 | 427,958 | 44,685 | 0 | 44,685 | 90,426 | 135,111 | 124,002 | 125,496 | 812,567 | 1.67 |
| Daly City | 1,489,660 | 680,705 | 2,170,365 | 403,689 | 90 | 403,779 | 69,008 | 472,787 | 35,931 | 229,574 | 2,908,657 | 5.90 |
| East Palo Alto* | 523,703 | 0 | 523,703 | 118,482 | 7,392 | 125,874 | 12,304 | 138,178 | 0 | 73,030 | 734,911 | 1.5 |
| Estero MID | 424,148 | 621,079 | 1,045,227 | 178,910 | 34,418 | 213,328 | 27,720 | 241,048 | 381,425 | 207,051 | 1,874,751 | 3.84 |
| Hillsborough | 975,463 | | 975,463 | 4,567 | | 4,567 | 12,364 | 16,931 | 16,965 | 129,644 | 1,139,003 | 2.33 |
| Menlo Park | 377,249 | 132,424 | 509,673 | 205,234 | 335,929 | 541,163 | 63,640 | 604,803 | 133,276 | -93,992 | 1,153,760 | 2.30 |
| Mid-Peninsula WD | 588,160 | 181,441 | 769,601 | 191,629 | 31,106 | 222,735 | 61,447 | 284,182 | 1,200 | 79,406 | 1,134,389 | 2.3 |
| Millbrae | 416,087 | 154,094 | 570,181 | 158,303 | 0 | 158,303 | 29,353 | 187,656 | 52,420 | 108,438 | 918,695 | 1.88 |
| North Coast CWD | 669,810 | 144,117 | 813,927 | 91,672 | 0 | 91,672 | 56,333 | 148,005 | 23,205 | 104,282 | 1,089,419 | 2.23 |
| Redwood City | 1,652,715 | 746,474 | 2,399,189 | 643,958 | 46,185 | 690,143 | 71,983 | 762,126 | 242,454 | 416,329 | 3,820,098 | 7.83 |
| San Bruno* | 974,044 | 0 | 974,044 | 55,469 | 0 | 55,469 | 58,938 | 114,407 | 0 | 341,093 | 1,429,544 | 2.93 |
| Westborough | 248,248 | 36,738 | 284,986 | 26,058 | 0 | 26,058 | 0 | 26,058 | 22,214 | 23,464 | 356,722 | 0.73 |
| Subtotal | 16,915,853 | 4,121,282 | 21,037,135 | 5,214,442 | 963,945 | 6,178,387 | 1,170,663 | 7,349,050 | 1,158,361 | 2,622,567 | 32,167,113 | 65.9 |
| mgd equiv | 34.67 | 8.45 | 43.11 | 10.69 | 1.98 | 12.66 | 2.40 | 15.06 | 2.37 | 5.37 | 65.92 | |
| Santa Clara County | | | | | | | | | | | | |
| Milpitas | 1,101,352 | 695,793 | 1,797,145 | 540,869 | 495,528 | 1,036,397 | 128,539 | 1,164,936 | 378,075 | 457,349 | 3,797,505 | 7.78 |
| Mountain View | 946,328 | 1,229,294 | 2,175,622 | 593,970 | 160,344 | 754,314 | 8,768 | 763,082 | 642,095 | 350,760 | 3,931,559 | 8.00 |
| Palo Alto | 1,788,893 | 655,139 | 2,444,032 | 836,792 | 143,658 | 980,450 | 254,143 | 1,234,593 | 416,259 | 287,676 | 4,382,560 | 8.98 |
| Purissima Hills WD | 627,686 | 0 | 627,686 | | , | 0 | 37,137 | 37,137 | , | 24,438 | 689,261 | 1.4 |
| San Jose** | 90,478 | 682,989 | 773,467 | 167,771 | 621,869 | 789,640 | 26,723 | 816,363 | 353,613 | 81,342 | 2,024,785 | 4.13 |
| Santa Clara | 1,752,068 | 1,700,358 | 3,452,426 | 2,518,780 | 728,751 | 3,247,531 | 423,860 | 3,671,391 | 0 | 520,430 | 7,644,247 | 15.67 |
| Stanford | 143,497 | 209,744 | 353,241 | 416 | 65,620 | 66,036 | 157,835 | 223,871 | 49,315 | 68,661 | 695,088 | 1.42 |
| Sunnyvale | 2,243,999 | 1,891,876 | 4,135,875 | 1,576,363 | 0 | 1,576,363 | 371,966 | 1,948,329 | 706,363 | 796,255 | 7,586,822 | 15.5 |
| Subtotal | 8,694,301 | 7,065,193 | 15,759,494 | 6,234,961 | 2,215,770 | 8,450,731 | 1,408,971 | 9,859,702 | 2,545,720 | 2,586,911 | 30,751,827 | 63.0 |
| mgd equiv | 17.82 | 14.48 | 32.30 | 12.78 | 4.54 | 17.32 | 2.89 | 20.21 | 5.22 | 5.30 | 63.02 | |
| Alameda County | | | | | | | | | | | | |
| Alameda CWD | 7,582,289 | 3,103,909 | 10,686,198 | 2,039,173 | 960,330 | 2,999,503 | 647,774 | 3,647,277 | 1,545,155 | 1,107,614 | 16,986,244 | 34.8 |
| Hayward | 2,133,948 | 1,352,891 | 3,486,839 | 506,289 | 785,213 | 1,291,502 | 305,097 | 1,596,599 | 540,224 | 657,860 | 6,281,522 | 12.87 |
| Subtotal | 9,716,237 | 4,456,800 | 14,173,037 | 2,545,462 | 1,745,543 | 4,291,005 | 952,871 | 5,243,876 | 2,085,379 | 1,765,474 | 23,267,766 | 47.68 |
| mgd equiv | 19.91 | 9.13 | 29.05 | 5.22 | 3.58 | 8.79 | 1.95 | 10.75 | 4.27 | 3.62 | 47.68 | 47.00 |
| | | · . | | | | | | | | | | |
| Total | | 15,643,275 | 50,969,666 | 13,994,865 | 4,925,258 | 18,920,123 | 3,532,505 | 22,452,628 | 5,789,460 | 6,974,951 | 86,186,706 | 176.6 |
| mgd equiv | 72.39 | 32.06 | 104.45 | 28.68 | 10.09 | 38.77 | 7.24 | 46.01 | 11.86 | 14.29 | 176.62 | |
| | ocludos multi fo | mily | | + Dedicated In | rigation refers | to senarately | matered irrigat | ion usage and i | ncludes agricult | ure | | |
| * Single family amount in | iciocies mom-re | 4111117 | | Dedicated ii | ingunon refers | to separately | mererea irrigar | ion osage and i | ilcioaes agricon | 010 | | |

Table 4B: Total Water Use by Customer Class - FY 2016-17 (in ccf)

| | | | Residential | | | | No | n-Residential | | Total Co | | |
|---------------------------|------------------|------------|-------------|----------------|------------------|---------------|-----------------|-----------------|------------------|-------------|------------|--------|
| | Single | | 6 1 | | | Comm'l/Ind'l | Gov't/ | 6 1 | Dedicated | | | |
| Member | Family | Family | Subtotal | Commercial | Industrial | Subtotal | Instit'l/Other | Subtotal | Irrigation† | Unaccounted | | mge |
| San Mateo County | | | | | | | | | | | | |
| Brisbane / GVMID | 78,802 | 18,623 | 97,425 | 110,718 | 0 | 110,718 | 10,803 | 121,521 | 48,045 | 27,765 | 294,756 | 0.60 |
| Burlingame | 615,153 | 300,251 | 915,404 | 223,304 | 209,714 | 433,018 | 39,480 | 472,498 | 213,269 | 137,273 | 1,738,444 | 3.56 |
| CWS - Bear Gulch | 3,571,896 | 111,874 | 3,683,770 | 430,246 | 836 | 431,082 | 118,413 | 549,495 | 10,355 | 263,102 | 4,506,722 | 9.24 |
| CWS - Mid-Peninsula | 2,888,154 | 805,265 | 3,693,419 | 1,051,744 | 18,196 | 1,069,940 | 355,830 | 1,425,770 | 0 | 419,812 | 5,539,001 | 11.35 |
| CWS - South SF | 1,035,542 | 147,258 | 1,182,800 | 1,275,774 | 280,079 | 1,555,853 | 92,621 | 1,648,474 | 0 | 30,800 | 2,862,074 | 5.87 |
| Coastside CWD | 387,019 | 40,939 | 427,958 | 44,685 | 0 | 44,685 | 90,426 | 135,111 | 175,193 | 74,305 | 812,567 | 1.67 |
| Daly City | 1,489,660 | 680,705 | 2,170,365 | 403,689 | 90 | 403,779 | 69,008 | 472,787 | 294,993 | 229,574 | 3,167,719 | 6.49 |
| East Palo Alto* | 523,703 | 0 | 523,703 | 118,482 | 7,392 | 125,874 | 12,304 | 138,178 | 0 | 73,030 | 734,911 | 1.51 |
| Estero MID | 424,148 | 621,079 | 1,045,227 | 178,910 | 34,418 | 213,328 | 27,720 | 241,048 | 381,425 | 207,051 | 1,874,751 | 3.84 |
| Hillsborough | 975,463 | 0 | 975,463 | 4,567 | 0 | 4,567 | 12,364 | 16,931 | 16,965 | 129,644 | 1,139,003 | 2.33 |
| Menlo Park | 377,249 | 132,424 | 509,673 | 205,234 | 335,929 | 541,163 | 63,640 | 604,803 | 133,276 | -93,992 | 1,153,760 | 2.36 |
| Mid-Peninsula WD | 588,160 | 181,441 | 769,601 | 191,629 | 31,106 | 222,735 | 61,447 | 284,182 | 1,200 | 79,406 | 1,134,389 | 2.32 |
| Millbrae | 416,087 | 154,094 | 570,181 | 158,303 | 0 | 158,303 | 29,353 | 187,656 | 52,420 | 120,438 | 930,695 | 1.91 |
| North Coast CWD | 669,810 | 144,117 | 813,927 | 91,672 | 0 | 91,672 | 56,333 | 148,005 | 23,205 | 120,069 | 1,105,206 | 2.26 |
| Redwood City | 1,652,715 | 746,474 | 2,399,189 | 648,845 | 54,637 | 703,482 | 72,007 | 775,489 | 502,184 | 438,007 | 4,114,869 | 8.43 |
| San Bruno* | 974,044 | 0 | 974,044 | 55,469 | 0 | 55,469 | 58,938 | 114,407 | 0 | 341,093 | 1,429,544 | 2.93 |
| Westborough | 248,248 | 36,738 | 284,986 | 26,058 | 0 | 26,058 | 0 | 26,058 | 22,214 | 23,464 | 356,722 | 0.73 |
| Subtotal | 16,915,853 | 4,121,282 | 21,037,135 | 5,219,329 | 972,397 | 6,191,726 | 1,170,687 | 7,362,413 | 1,874,744 | 2,620,841 | 32,895,133 | 67.41 |
| mgd equiv | 34.67 | 8.45 | 43.11 | 10.70 | 1.99 | 12.69 | 2.40 | 15.09 | 3.84 | 5.37 | 67.41 | |
| Santa Clara County | | | | | | | | | | | | |
| Milpitas | 1,101,352 | 695,793 | 1,797,145 | 540,869 | 495,790 | 1,036,659 | 128,539 | 1,165,198 | 730,235 | 466,609 | 4,159,187 | 8.52 |
| Mountain View | 946,328 | 1,229,294 | 2,175,622 | 595,261 | 160,344 | 755,605 | 9,904 | 765,509 | 773,367 | 410,521 | 4,125,019 | 8.45 |
| Palo Alto | 1,788,893 | 655,139 | 2,444,032 | 836,792 | 143,658 | 980,450 | 543,728 | 1,524,178 | 416,340 | 287,678 | 4,672,228 | 9.57 |
| Purissima Hills WD | 627,686 | 0 | 627,686 | 0 | 0 | 0 | 37,137 | 37,137 | 0 | 24,438 | 689,261 | 1.41 |
| San Jose** | 90,478 | 682,989 | 773,467 | 167,771 | 717,873 | 885,644 | 35,895 | 921,539 | 549,254 | 81,342 | 2,325,602 | 4.77 |
| Santa Clara | 1,752,068 | 1,700,358 | 3,452,426 | 2,518,780 | 728,751 | 3,247,531 | 423,860 | 3,671,391 | 0 | 2,018,056 | 9,141,873 | 18.73 |
| Stanford | 143,497 | 209,744 | 353,241 | 416 | 65,620 | 66,036 | 157,835 | 223,871 | 498,566 | 72,884 | 1,148,562 | 2.35 |
| Sunnyvale | 2,243,999 | 1,891,876 | 4,135,875 | 1,576,363 | 0 | 1,576,363 | 371,966 | 1,948,329 | 1,100,904 | 559,340 | 7,744,448 | 15.87 |
| Subtotal | 8,694,301 | 7,065,193 | 15,759,494 | 6,236,252 | 2,312,036 | 8,548,288 | 1,708,864 | 10,257,152 | 4,068,666 | 3,920,868 | 34,006,180 | 69.69 |
| mgd equiv | 17.82 | 14.48 | 32.30 | 12.78 | 4.74 | 17.52 | 3.50 | 21.02 | 8.34 | 8.04 | 69.69 | |
| Alameda County | | | | | | | | | | | | |
| Alameda CWD | 7,582,289 | 3,103,909 | 10,686,198 | 2,039,173 | 960,330 | 2,999,503 | 647,774 | 3,647,277 | 1,545,155 | 1,107,614 | 16,986,244 | 34.81 |
| Hayward | 2,133,948 | 1,352,891 | 3,486,839 | 506,289 | 785 , 213 | 1,291,502 | 305,097 | 1,596,599 | 540,224 | 657,860 | 6,281,522 | 12.87 |
| Subtotal | 9,716,237 | 4,456,800 | 14,173,037 | 2,545,462 | 1,745,543 | 4,291,005 | 952,871 | 5,243,876 | 2,085,379 | 1,765,474 | 23,267,766 | 47.68 |
| mgd equiv | 19.91 | 9.13 | 29.05 | 5.22 | 3.58 | 8.79 | 1.95 | 10.75 | 4.27 | 3.62 | 47.68 | |
| Total | 35,326,391 | 15,643,275 | 50,969,666 | 14,001,043 | 5,029,976 | 19,031,019 | 3,832,422 | 22,863,441 | 8,028,789 | 8,307,182 | 90,169,079 | 184.78 |
| mgd equiv | 72.39 | 32.06 | 104.45 | 28.69 | 10.31 | 39.00 | 7.85 | 46.85 | 16.45 | 17.02 | 184.78 | |
| * Single family amount in | ncludes multi-fo | amily | | † Dedicated Ir | rigation refers | to separately | metered irrigat | ion usage and i | ncludes agricult | ure | | |
| | | | | | | . , | | | | | | |
| Source: BAWSCA FY 20 | 16-17 Annual | Survey | | | | | | | | | | |
| DATES. DATESCATT 20 | . J- I/ AIIIIUUI | 001 TCy | | | | | | | | | | |

Table 4C: Number of Customer Accounts - FY 2016-17

| | | l | Residential | | | | Non- | Residential | | |
|-----------------------------|--|----------|-------------|---------------|--|------------|-----------|-------------|-------------|---------|
| | Single | Multiple | Res | | | Ind/Comm | Gov't, | Non-Res | Dedicated | |
| Member | Family* | Family | Subtotal | Commercial | Industrial | Subtotal | Other | Subtotal | Irrigation† | Tota |
| San Mateo County | | | | | | | | | | |
| Brisbane / GVMID | 1,533 | 117 | 1,650 | 298 | 0 | 298 | 0 | 298 | 92 | 2,040 |
| Burlingame | 6,840 | 740 | 7,580 | 610 | 262 | 872 | 542 | 1,414 | 200 | 9,194 |
| CWS - Bear Gulch | 16,963 | 180 | 17,143 | 1,265 | 1 | 1,266 | 151 | 1,417 | 8 | 18,568 |
| CWS - Mid-Peninsula | 31,251 | 738 | 31,989 | 3,335 | 92 | 3,427 | 372 | 3,799 | 0 | 35,788 |
| CWS - SSF | 14,000 | 171 | 14,171 | 1,880 | 52 | 1,932 | 236 | 2,168 | 0 | 16,339 |
| Coastside CWD | 5,799 | 132 | 5,931 | 318 | 0 | 318 | 1,108 | 1,426 | 77 | 7,434 |
| Daly City | 18,920 | 2,904 | 21,824 | 772 | 6 | 778 | 188 | 966 | 260 | 23,050 |
| East Palo Alto | 3,673 | 0 | 3,673 | 122 | 40 | 162 | 95 | 257 | 0 | 3,930 |
| Estero MID | 4,535 | 2,593 | 7,128 | 197 | 57 | 254 | 253 | 507 | 529 | 8,164 |
| Hillsborough | 4,180 | 0 | 4,180 | 11 | 0 | 11 | 16 | 27 | 66 | 4,273 |
| Menlo Park | 3,392 | 218 | 3,610 | 172 | 246 | 418 | 201 | 619 | 136 | 4,365 |
| Mid-Peninsula WD | 7,301 | 202 | 7,503 | 459 | 48 | 507 | 35 | 542 | 8 | 8,053 |
| Millbrae | 5,744 | 276 | 6,020 | 297 | 0 | 297 | 140 | 437 | 98 | 6,555 |
| North Coast CWD | 11,124 | 300 | 11,424 | 342 | 0 | 342 | 644 | 986 | 89 | 12,499 |
| Redwood City | 19,149 | 1,683 | 20,832 | 1,422 | 48 | 1,470 | 827 | 2,297 | 430 | 23,559 |
| San Bruno | 9,480 | 1,067 | 10,547 | 719 | 3 | 722 | 83 | 805 | 130 | 11,482 |
| Westborough WD | 3,727 | 14 | 3,741 | 47 | 0 | 47 | 0 | 47 | 94 | 3,882 |
| Subtotal | 167,611 | 11,335 | 178,946 | 12,266 | 855 | 13,121 | 4,891 | 18,012 | 2,217 | 199,175 |
| Santa Clara County | | | | | | | | | | |
| Milpitas | 12,393 | 1,865 | 14,258 | 605 | 315 | 920 | 629 | 1,549 | 774 | 16,581 |
| Mountain View | 12,465 | 2,492 | 14,957 | 1,418 | 566 | 1,984 | 33 | 2,017 | 1,013 | 17,987 |
| Palo Alto | 15,315 | 1,918 | 17,233 | 1,53 <i>7</i> | 79 | 1,616 | 961 | 2,577 | 404 | 20,214 |
| Purissima Hills WD | 2,070 | 0 | 2,070 | 0 | 0 | 0 | 121 | 121 | 10 | 2,201 |
| San Jose | 1,155 | 280 | 1,435 | 161 | 281 | 442 | 76 | 518 | 272 | 2,225 |
| Santa Clara | 17,306 | 4,873 | 22,179 | 2,655 | 360 | 3,015 | 520 | 3,535 | 0 | 25,714 |
| Stanford | | | | Not Appli | cable | | | | | |
| Sunnyvale | 23,703 | 1,649 | 25,352 | 1,773 | 0 | 1,773 | 120 | 1,893 | 919 | 28,164 |
| Subtotal | 84,407 | 13,077 | 97,484 | 8,149 | 1,601 | 9,750 | 2,460 | 12,210 | 3,392 | 113,086 |
| Alameda County | | | | | | | | | | |
| Alameda CWD | 72,840 | 3,069 | 75,909 | 3,912 | 1,187 | 5,099 | 1,088 | 6,187 | 2,420 | 84,516 |
| Hayward | 28818 | 1424 | 30,242 | 1,869 | 1,770 | 3,639 | 418 | 4,057 | 1,362 | 35,661 |
| Subtotal | 101,658 | 4,493 | 106,151 | 5,781 | 2,957 | 8,738 | 1,506 | 10,244 | 3,782 | 120,177 |
| Total | 353,676 | 28,905 | 382,581 | 26,196 | 5,413 | 31,609 | 8,857 | 40,466 | 9,391 | 432,438 |
| *Individually metered homes | dividually metered homes, townhouses, and condos | | | | † Dedicated Irrigation refers to separately metered irrigation usage | | | | | |
| mererea nomes, | | | | | | o separate | , merered | | -9- | |

5. Climatological Data

Table 5A: Climatological Data

| Rainfall | | | | |
|----------------------------|-------------------|---------------|-------------|---------------|
| | Pr | ecipitation (| Inches) | |
| | Redwood City* | San Jose | Newark | SF Airpor |
| Historical Avg (1906-201 | 6) | | | |
| | 19.2 | 14.6 | 14.3 | 19.9 |
| Recent Past | | | | |
| FY 2012-13 | 13.9 | 9.4 | 12.2 | 12. |
| FY 2013-14 | 6.6 | 6.3 | 6.9 | 8. |
| FY 2014-15 | 12.9 | 13.7 | 14.6 | 17.0 |
| FY 2015-16 | 19.6 | 14.9 | 13.1 | 1 <i>7</i> .: |
| FY 2016-17 | 31.5 | 18.4 | 19.8 | 30. |
| FY 2016-17 Deviation fro | m Historical Ava | | | |
| | 12.4 | 3.8 | 5.5 | 11.0 |
| | | | | |
| | | | | |
| Temperature | | | | |
| Tomporure to | Average Maxi | mum Tempe | erature (De | egrees F) |
| | Redwood City* | San Jose | Newark | SF Airpor |
| Historical Avg (1948-201 | • | | | |
| Annual | 71.0 | 70.8 | 68.2 | 65.2 |
| Summer** | 81.5 | 81.2 | 77.0 | 72.3 |
| Recent Past | | | | |
| 2012-13 Annual | 70.9 | 71.4 | 68.2 | 65.4 |
| Summer** | 78.1 | 79.1 | 74.9 | 69. |
| 2013-14 Annual | 72.1 | 72.2 | 69.7 | 67.8 |
| Summer** | 79.5 | 79.4 | 75.9 | 72.0 |
| 2014-15 Annual | 72.9 | 72.1 | 70.5 | 69.0 |
| Summer** | 81.3 | 79.6 | 77.5 | 74.9 |
| 2015-16 Annual | 72.2 | 67.6 | 70.5 | 69.0 |
| Summer** | 82.5 | 75.3 | 77.5 | 74.9 |
| 2016-17 Annual | 70.1 | 71.4 | 68.6 | 66. |
| Summer** | <i>7</i> 9.1 | 81.0 | 76.3 | 71.8 |
| FY 2016-17 Deviation Fra | om Historical Avg | | | |
| Annual | -0.9 | 0.6 | 0.4 | 1.0 |
| Summer** | -2.5 | -0.2 | -0.7 | -0.4 |
| *Values for Palo Alto wer | e sometimes used | in cases whe | re Redwoo | d City |
| values were absent or inco | | | | - / |
| **July, August, September | • | | | |
| | | | | |
| Source: Western Regional (| Jimate Center | | | |

Climatological Data Page 5-1

Figure 5A: Total Annual Precipitation

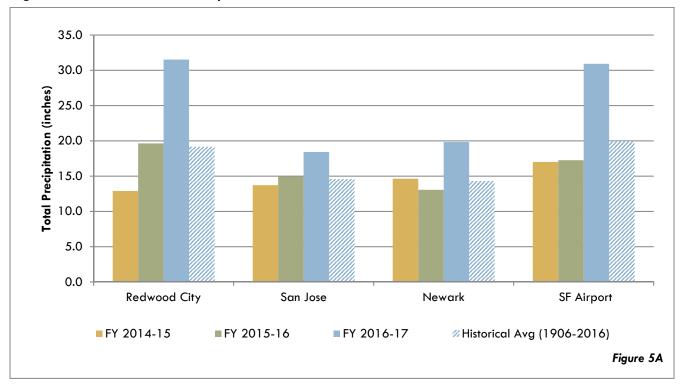
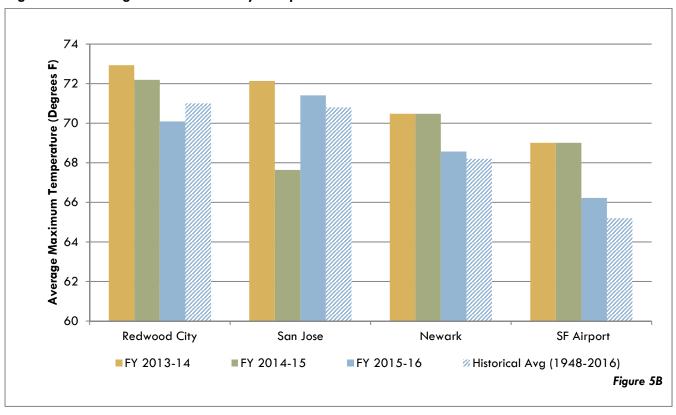


Figure 5B: Average Maximum Daily Temperature



Climatological Data Page 5-2

6. Service Area Populations

Table 6: BAWSCA Service Area Populations

| | FY 2006-07 | FY 2007-08 | FY 2008-09 | FY 2009-10 | Y 2010-11 | FY 2011-12 | FY 2012-13 | FY 2013-14 | FY 2014-15 | FY 2015-16 | FY 2016-17 | FY 2020-21 | FY 2025-26 | FY 2030-31 | FY 2035-36 | FY 2040-41 |
|---------------------|------------|------------|------------|------------------|----------------|-------------|--------------------------|---------------|------------|----------------|----------------|------------|------------|------------|----------------|------------|
| San Mateo County | | | | | | | | | | | | | | | | |
| Brisbane/GVMID | 3,159 | 3,159 | 3,159 | 3,993 | 4,282 | 4,282 | 4,282 | 4,282 | 4,282 | 4,562 | 4,156 | 4,509 | 4,632 | 4,761 | 4,906 | 5,05 |
| Burlingame | 28,100 | 28,100 | 28,867 | 30,493 | 30,282 | 30,282 | 30,282 | 30,282 | 32,993 | 31,109 | 31,109 | 31,109 | 32,793 | 34,477 | 36,162 | 37,84 |
| CWS - Bear Gulch | 55,501 | 55,501 | 57,078 | 55,810 | <i>57,</i> 254 | 57,845 | 58,098 | 58,352 | 59,883 | 59,883 | 60,513 | 61,202 | 62,555 | 63,944 | 65,369 | 66,83 |
| CWS - Mid-Peninsula | 124,279 | 124,279 | 123,260 | 120,350 | 126,850 | 128,445 | 128,037 | 129,037 | 133,679 | 133,679 | 135,455 | 139,642 | 146,125 | 153,178 | 160,856 | 169,21 |
| CWS - South SF | 57,370 | 57,370 | 56,210 | 56,010 | 58,658 | 58,815 | 59,567 | 60,172 | 61,223 | 61,223 | 61,769 | 63,430 | 65,732 | 68,133 | 70,639 | 73,25 |
| Coastside CWD | 17,923 | 18,887 | 19,221 | 20,216 | 20,216 | 17,094 | 16,900 | 16,652 | 16,668 | 16,704 | 16,704 | 16,848 | 16,873 | 16,886 | 18,363 | 19,84 |
| Daly City | 106,160 | 106,361 | 107,099 | 107,773 | 101,920 | 102,043 | 102,820 | 104,462 | 108,510 | 109,139 | 109,139 | 118,000 | 122,700 | 129,700 | 136,900 | 143,90 |
| East Palo Alto | 29,690 | 29,690 | 29,690 | 29,690 | 26,181 | 25,215 | 25,927 | 25,927 | 29,143 | 24,424 | 26,181 | 27,490 | 28,865 | 30,308 | 31,823 | 33,41 |
| Estero MID | 34,385 | 36,000 | 36,100 | 36,100 | 36,100 | 36,100 | 36,567 | 37,000 | 37,088 | 37,165 | 37,518 | 37,200 | 38,035 | 38,661 | 39,079 | 39,44 |
| Guadalupe Valley | 438 | 438 | 438 | | | | Included | with Brisbane | | | _ | | | | | |
| Hillsborough | 10,965 | 10,825 | 10,844 | 11,982 | 10,825 | 10,825 | 10,850 | 10,860 | 10,869 | 10,869 | 10,869 | 10,869 | 10,913 | 10,956 | 11,000 | 11,00 |
| Los Trancos | | | | | Includ | ed with CWS | - Bear Gulch | 1 | | | | | | | | |
| Menlo Park | 10,261 | 10,308 | 14,139 | 14,139 | 14,198 | 14,198 | 14,198 | 16,066 | 15,342 | 16,066 | 16,066 | 18,224 | 21,214 | 24,204 | 27,194 | 30,18 |
| Mid-Peninsula WD | 26,050 | 26,050 | 26,050 | 26,130 | 26,130 | 26,270 | 26,270 | 26,270 | 26,730 | 26,730 | 26,924 | 26,924 | 27,560 | 28,259 | 28,793 | 29,438 |
| Millbrae | 20,718 | 21,387 | 21,387 | 21,387 | 21,532 | 21,532 | 21,532 | 21,532 | 21,532 | 22,848 | 22,848 | 22,848 | 24,192 | 25,571 | 27,076 | 28,657 |
| North Coast CWD | 40,000 | 40,000 | 40,000 | 40,401 | 40,000 | 40,000 | 39,000 | 39,000 | 40,000 | 40,000 | 40,000 | 39,800 | 40,600 | 41,400 | 42,000 | 42,400 |
| Redwood City | 83,895 | 83,895 | 83,895 | 85,098 | 84,557 | 86,647 | 86,647 | 86,427 | 87,059 | 87,023 | 87,023 | 90,518 | 93,765 | 97,128 | 100,614 | 104,247 |
| San Bruno | 40,165 | 40,165 | 40,165 | 41,114 | 41,114 | 41,420 | 41,114 | 43,798 | 43,798 | 44,409 | 44,409 | 45,600 | 48,600 | 51,200 | 53,400 | 55,800 |
| Skyline | 1,812 | 1,658 | | | | Include | ed with CWS | - Bear Gulch | | | | | | | | |
| Westborough WD | 12,000 | 12,000 | 12,000 | 12,690 | 13,300 | 13,259 | 13,259 | 13,259 | 13,260 | 14,050 | 14,050 | 12,791 | 13,101 | 13,411 | 13,721 | 14,020 |
| Subtotal | 702,871 | 706,073 | 709,602 | 713,376 | 713,399 | 714,272 | 715,350 | 723,378 | 742,060 | 739,883 | 744,733 | 767,004 | 798,255 | 832,177 | 867,895 | 904,543 |
| Santa Clara County | | | | | | | | | | | | | | | | |
| Milpitas | 64,998 | 69,419 | 70,817 | 70,817 | 66,790 | 67,804 | 67,894 | 69,783 | 70,800 | <i>75,</i> 521 | 77,528 | 82,300 | 90,400 | 98,100 | 106,000 | 109,100 |
| Mountain View | 73,262 | 73,932 | 74,762 | 75,787 | 75,275 | 73,774 | 73,656 | 75,280 | 76,413 | 75,430 | <i>77</i> ,801 | 79,010 | 82,590 | 86,170 | 89,750 | 93,330 |
| Palo Alto | 62,148 | 63,467 | 63,400 | 65,408 | 64,403 | 64,538 | 66,368 | 66,642 | 66,152 | 68,020 | 66,930 | 68,020 | 70,500 | 73,700 | <i>77</i> ,100 | 84,600 |
| Purissima Hills WD | 6,050 | 6,050 | 6,050 | 6,060 | 6,118 | 6,120 | 6,127 | 6,142 | 6,140 | 6,150 | 6,150 | 6,150 | 6,165 | 6,180 | 6,195 | 6,220 |
| San Jose* | 13,600 | 14,800 | 16,900 | 14,645 | 14,624 | 14,658 | 1 <i>5</i> ,1 <i>7</i> 8 | 15,286 | 15,948 | 9,059 | 13,733 | 20,785 | 32,712 | 45,536 | 59,059 | 59,059 |
| Santa Clara | 114,238 | 114,238 | 117,200 | 118,830 | 118,830 | 118,263 | 119,311 | 118,459 | 120,973 | 120,973 | 123,752 | 128,691 | 135,012 | 141,726 | 148,951 | 156,482 |
| Stanford | 27,715 | 29,026 | 27,397 | 27,491 | 28,218 | 28,792 | 29,401 | 29,635 | 30,486 | 30,943 | 31,558 | 33,094 | 35,173 | 37,373 | 39,704 | 41,76 |
| Sunnyvale | 133,721 | 133,721 | 137,538 | 138,826 | 141,099 | 142,896 | 145,973 | 147,055 | 148,028 | 148,372 | 149,831 | 154,671 | 161,314 | 167,957 | 174,600 | 181,243 |
| Subtotal | 495,732 | 504,653 | 514,064 | 517 , 864 | 515,357 | 516,845 | 523,908 | 528,282 | 534,940 | 534,468 | 547,283 | 572,721 | 613,866 | 656,742 | 701,359 | 731,800 |
| Alameda County | | | | | | | | | | | | | | | | |
| Alameda CWD | 327,652 | 330,786 | 331,293 | 332,000 | 327,000 | 331,000 | 336,000 | 340,000 | 344,000 | 348,000 | 350,538 | 353,300 | 367,600 | 382,511 | 398,723 | 415,63 |
| Hayward | 147,845 | 149,205 | 150,878 | 153,104 | 146,000 | 147,113 | 148,756 | 151,037 | 152,889 | 158,985 | 158,985 | 150,919 | 157,655 | 164,617 | 171,979 | 179,91 |
| Subtotal | 475,497 | 479,991 | 482,171 | 485,104 | 473,000 | 478,113 | 484,756 | 491,037 | 496,889 | 506,985 | 509,523 | 504,219 | 525,255 | 547,128 | 570,702 | 595,55 |
| | | | | | | | | | | | | 1,843,944 | | | | 2,231,896 |

Source: BAWSCA Annual Surveys

7. Current Water Use Per Capita

Figure 7A-1: Residential Per Capita Consumption - FY 2016-17 (in gpcd)

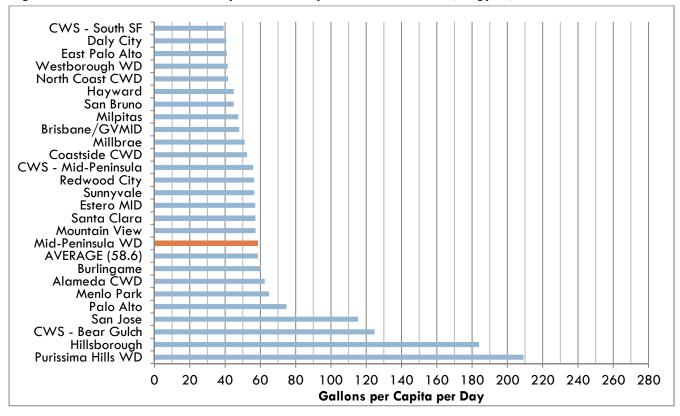
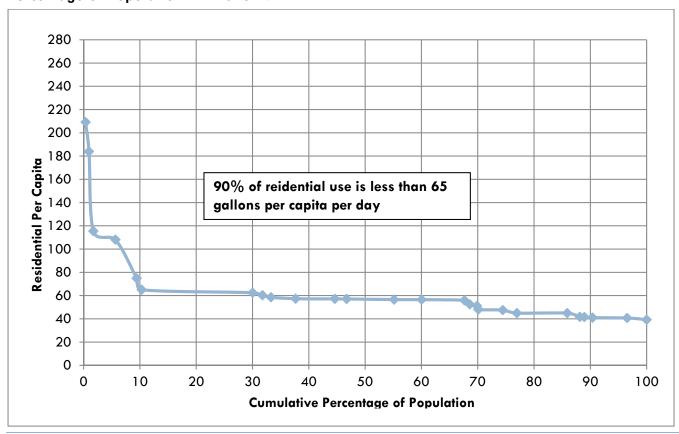


Figure 7A-2: Residential Per Capita Consumption (in gpcd) Distributed by Percentage of Population- FY 2016-17



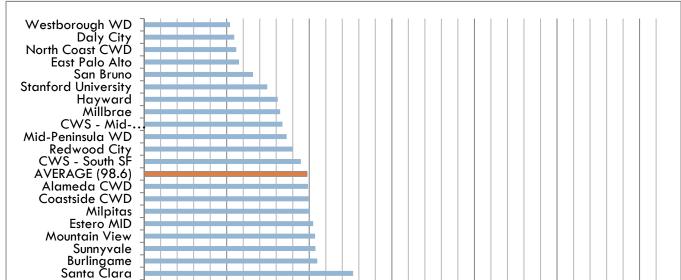


Figure 7B: Gross Per Capita Consumption(in gpcd) - FY 2016-17

50

Palo Alto

0

Brisbane/GVMID Menlo Park CWS - Bear Gulch Hillsborough Purissima Hills WD San Jose



150 Gallons per Capita per Day

200

250

300

100

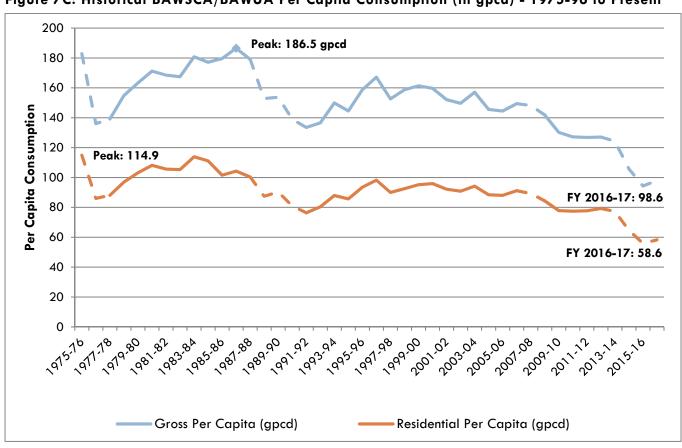


Table 7A: Residential Per Capita Consumption and Single-Family Average Monthly Use Among BAWSCA Members - FY 2016-17

| | | | *Residential | **Single-Family | |
|-----------------------------|---------------------|----------------------|--------------|-----------------|--|
| | Service | Residential | Per Capita | Average | |
| | Area | Consumption* | Consumption | Monthly Use | |
| Member | Population | (ccf) | (gpcd) | (ccf) | |
| CWS - South SF | 61,769 | 1,182,800 | 39.2 | 6.2 | |
| Daly City | 109,139 | 2,170,365 | 40.8 | 6.6 | |
| East Palo Alto*** | 26,181 | 523,703 | 41.0 | 11.9 | |
| Westborough WD | 14,050 | 284,986 | 41.6 | 5.6 | |
| North Coast CWD | 40,000 | 813,927 | 41.7 | 5.0 | |
| Hayward | 158,985 | 3,486,839 | 44.9 | 6.2 | |
| San Bruno | 44,409 | 974,044 | 45.0 | 8.6 | |
| Milpitas | <i>77,</i> 528 | 1,797,145 | 47.5 | 7.4 | |
| Brisbane/GVMID | 4,156 | 97,425 | 48.0 | 4.3 | |
| Millbrae | 22,848 | <i>57</i> 0,181 | 51.1 | 6.0 | |
| Coastside CWD | 16,704 | 427,958 | 52.5 | 5.6 | |
| CWS - Mid-Peninsula | 135,455 | 3,693,419 | 55.9 | 7.7 | |
| Redwood City | 87,023 | 2,399,189 | 56.5 | 7.2 | |
| Sunnyvale | 149,831 | 4,135,875 | 56.6 | 7.9 | |
| Estero MID | 37,518 | 1,045,227 | 57.1 | 7.8 | |
| Santa Clara | 123,752 | 3,452,426 | 57.2 | 8.4 | |
| Mountain View | 77,801 | 2,175,622 | 57.3 | 6.3 | |
| Mid-Peninsula WD | 26,924 | 769,601 | 58.6 | 6.7 | |
| Burlingame | 31,109 | 915,404 | 60.3 | 7.5 | |
| Alameda CWD | 350,538 | 10,686,198 | 62.5 | 8.7 | |
| Menlo Park | 16,066 | 509,673 | 65.0 | 9.3 | |
| Palo Alto | 66,930 | 2,444,032 | 74.8 | 9.7 | |
| San Jose | 13,733 | 773,467 | 115.4 | 6.5 | |
| CWS - Bear Gulch | 60,513 | 3,683,770 | 124.8 | 17.5 | |
| Hillsborough | 10,869 | 975,463 | 183.9 | 19.4 | |
| Purissima Hills WD | 6,150 | 627,686 | 209.2 | 25.3 | |
| Average F | Residential Per Cap | oita Consumption | 58.6 | | |
| | verage Single Fan | | | 8.8 | |
| *Includes multi-family and | d single family acc | ounts. Excludes recy | cled water. | | |
| **Individually metered sin | , | | | | |
| ***East Palo Alto reports n | • | • | | | |
| - | | | | | |
| Notes: Due to its unique se | rvice area, Stanfoi | rd is excluded. | | | |
| Source: BAWSCA FY 2016 | -17 Annual Survey | | | | |

Table 7B: Gross Per Capita Consumption and Single-Family Average Monthly Use Among BAWSCA Members - FY 2016-17

| | | | Gross |
|---------------------------|----------------|--------------------------|-------------|
| | Service | *Total | Per Capita |
| | Area | Consumption | Consumption |
| Member | Population | (ccf) | (gpcpd) |
| Westborough WD | 14,050 | 356,722 | 52.0 |
| Daly City | 109,139 | 2,908,657 | 54.6 |
| North Coast CWD | 40,000 | 1,089,419 | 55.8 |
| East Palo Alto | 26,181 | <i>7</i> 34 , 911 | 57.5 |
| San Bruno | 44,409 | 1,429,544 | 66.0 |
| Stanford University | 31,558 | 1,148,562 | 74.6 |
| Hayward | 158,985 | 6,281,522 | 81.0 |
| Millbrae | 22,848 | 918,695 | 82.4 |
| CWS - Mid-Peninsula | 135,455 | 5,539,001 | 83.8 |
| Mid-Peninsula WD | 26,924 | 1,134,389 | 86.3 |
| Redwood City | 87,023 | 3,820,098 | 90.0 |
| CWS - South SF | 61,769 | 2,862,074 | 95.0 |
| Alameda CWD | 350,538 | 16,986,244 | 99.3 |
| Coastside CWD | 16,704 | 812,567 | 99.7 |
| Milpitas | <i>77,</i> 528 | 3,797,505 | 100.4 |
| Estero MID | <i>37,</i> 518 | 1,874,751 | 102.4 |
| Mountain View | <i>77,</i> 801 | 3,931,559 | 103.6 |
| Sunnyvale | 149,831 | 7,586,822 | 103.8 |
| Burlingame | 31,109 | 1,592,044 | 104.9 |
| Santa Clara | 123,752 | 7,644,247 | 126.6 |
| Palo Alto | 66,930 | 4,382,560 | 134.2 |
| Brisbane/GVMID | 4,156 | 294,756 | 145.3 |
| Menlo Park | 16,066 | 1,153,760 | 147.2 |
| CWS - Bear Gulch | 60,513 | 4,506,722 | 152.6 |
| Hillsborough | 10,869 | 1,139,003 | 214.8 |
| Purissima Hills WD | 6,150 | 689,261 | 229.7 |
| San Jose** | 13,733 | 2,024,785 | 302.1 |
| Totals | 1,801,539 | 86,640,180 | |
| | ,, | Average gpcpd | 98.6 |
| | Med | ian of Agencies | 99.7 |
| *Exclusive of recycled wa | | | |
| **Service area predomina | • | | |

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

| | o to Present) | Water | Gross Per | Residential |
|---------|---------------|---------|------------------------|-------------|
| | Service Area | Usage** | Capita | Per Capita |
| Year | Population* | (mgd) | (gpcd) | (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 | 1 <i>5</i> 8. <i>7</i> | 92.5 |
| 1999-00 | 1,620,307 | 261.5 | 161.4 | 95.2 |
| 2000-01 | 1,634,308 | 261.0 | 1 <i>5</i> 9. <i>7</i> | 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 | 1 <i>57</i> .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 |
| 2014-15 | 1,773,889 | 187.5 | 105.7 | 64.7 |
| 2015-16 | 1,781,530 | 168.1 | 94.3 | 55.9 |
| 2016-17 | 1,801,539 | 177.6 | 98.6 | 58.6 |

^{*}All BAWUA/BAWSCA agencies reporting, including Stanford.

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: BAWUA/BAWSCA Annual Surveys / Historical Data Files

^{**}Water usage totals include unaccounted for water; exclude recycled water.

8. Current Residential Water Bills

Figure 8A: Single Family Water Bills Based on Average Monthly Use Using Rates in Effect for FY 2016-17

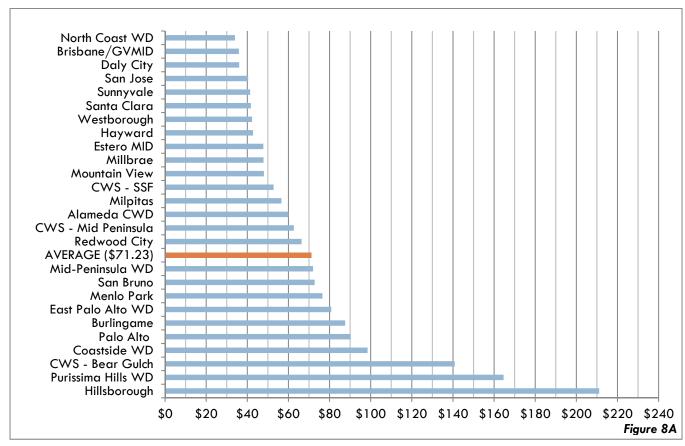


Figure 8B: Historical and Current SF RWS Wholesale Water Rates and BAWSCA Bond Surcharges FY 1985-85 to Present

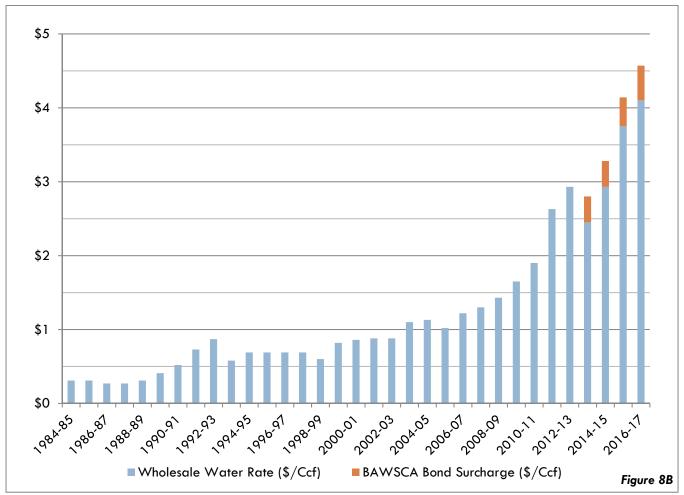


Table 8A: Single Family Water Bills* Based on Average Monthly Use for FY 2016-17, Using Rates in Effect for FY 2016-17

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

| Member | Municipalities Average Monthly Use (ccf) | Special Districts Average Monthly Use (ccf) | All Agencies Average Monthly Bill |
|---------------------|--|---|-----------------------------------|
| North Coast CWD | Ose (ccr) | 5.0 | \$34.00 |
| Brisbane/GVMID | 4.3 | 5.0 | \$34.00 |
| Daly City | 6.6 | | \$35.07 |
| San Jose | 6.5 | | \$40.42 |
| Sunnyvale | 7.9 | | \$40.42 |
| Santa Clara | 8.4 | | \$41.76 |
| Westborough WD | 0.4 | 5.6 | \$41.70 |
| Hayward | 6.2 | 5.0 | \$42.32 |
| Estero MID | 0.2 | 7.8 | \$47.83 |
| Millbrae | 6.0 | 7.0 | \$47.83 |
| Mountain View | 6.3 | | \$47.70 |
| CWS - South SF | 0.5 | 6.2 | \$52.79 |
| Milpitas | 7.4 | 0.2 | \$56.62 |
| Alameda CWD | 7.4 | 8.7 | \$60.03 |
| CWS - Mid-Peninsula | | 7.7 | \$62.62 |
| Redwood City | 7.2 | 7./ | \$66.39 |
| Mid-Peninsula WD | 7.2 | 6.7 | \$71.98 |
| San Bruno | 8.6 | 0.7 | \$71.76 |
| Menlo Park | 9.3 | | \$76.52 |
| East Palo Alto | 11.9 | | \$80.86 |
| Burlingame | 7.5 | | \$87.59 |
| Palo Alto | 9.7 | | \$90.27 |
| Coastside CWD | 7.7 | 5.6 | \$98.49 |
| CWS - Bear Gulch | | 17.5 | \$140.87 |
| Purissima Hills WD | | 25.3 | \$140.67 |
| Hillsborough | 19.4 | 23.3 | \$211.13 |
| Total Average | | 9.6 | \$71.23 |

^{*} 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 2016-17 Annual Survey

Table 8B: Single Family Water Bills* Based on Average Monthly Use for FY 2016-17, Using Rates in Effect for FY 2016-17

Inclusive of Service Charge (1 of 3)

| . | D | | | - | ate | | Total | | | |
|-------------------------------|---------------|------------|------------------|--------|--------------|------|----------|------------|-------------------|--|
| Member/ | Billing Servi | | Rate | | | | Monthly | | | |
| Average Monthly Use (Units) | Cycle | Charge | per ccf | (c | cf) | | Bill | | Remarks | |
| Alameda CWD | Bimonthly | \$49.84 | \$4.05 | | L | | \$60.03 | Effective: | 3/1/2017 | |
| 8.7 | | | | | | | | | Does not include | |
| | | | | | | | | | drought surcharge | |
| Brisbane/Guadalupe Valley MID | Bimonthly | \$22.67 | \$5.19 | 1 | - | 3 | \$35.89 | Effective: | 12/31/2016 | |
| 4.3 | 3/4- | inch meter | \$7.00 | 4 | - | 8 | | | | |
| | | | \$8.69 | 9 | - | 16 | | | | |
| | | | \$11.05 | 17 + | - | | | | | |
| Burlingame | Bimonthly | \$72.72 | \$6.34 | 0.0 | - | 5.4 | \$87.59 | Effective: | 1/1/2017 | |
| 7.5 | Up to 3/4- | inch meter | \$7.11 | 5.4 | - | 10.7 | | | | |
| | | | \$7.88 | 10.7 | - | 21.4 | | | | |
| | | | \$8.66 | 21.4 - | | 32.1 | | | | |
| | | | \$9.43 | 32.1 - | + | | | | | |
| CWS - Bear Gulch | Monthly | \$19.61 | \$6.73 | 1 - | - | 10 | \$140.87 | Effective: | 7/15/2016 | |
| 17.5 | 5/8 x 3/4 | inch meter | \$7.15 | 11 | - | 35 | | | | |
| | | | \$8.56 | 35 + | - | | | | | |
| CWS - Mid Peninsula | Monthly | \$14.70 | \$6.18 | 0 | - | 7 | \$62.62 | Effective: | 1/1/2017 | |
| 7.7 | 5/8 x 3/4 | inch meter | \$6.65 | 8 | - | 12 | | | | |
| | | | \$8.24 | 13+ | - | | | | | |
| CWS - South San Francisco | Monthly | \$14.70 | \$6.18 | 1 - | - | 7 | \$52.79 | Effective: | 1/1/2017 | |
| 6.2 | 5/8 x 3/4 | inch meter | \$6.65 | 8 | - | 12 | | | , , | |
| | | | \$8.24 | 13+ | - | | | | | |
| Coastside CWD | Bimonthly | \$47.45 | \$9.19 | 1 . | - | 4 | \$98.49 | Effective: | 7/1/2016 | |
| 5.6 | | inch meter | \$10.26 | 5 | - | 16 | | | , , | |
| | , | | \$13.23 | 17 | | 30 | | | | |
| | | | \$1 <i>7</i> .53 | 31 + | - | | | | | |
| Daly City | Bimonthly | \$28.20 | \$3.35 | 0 | _ | 14 | \$36.08 | Effective: | 7/1/2016 | |
| 6.6 | Up to 3/4- | | \$7.67 | 15+ | - | | , | | , , | |
| | , | | ** ** | - | | | | | | |
| East Palo Alto | Bimonthly | \$15.34 | \$6.16 | | | | \$80.86 | Effective: | 7/1/2016 | |
| 11.9 | 5/8 | inch meter | | | | | | | · | |
| | , | | | | Ť | | | | | |
| Estero MID | Bimonthly | \$17.25 | \$5.03 | 0 | - | 20 | \$47.83 | Effective: | 1/1/2017 | |
| 7.8 | , | | \$6.06 | 20 + | - | | | | · , | |
| | | | | | † | | | | | |

^{*} Average single family use among BAWSCA agencies varies from 4.3 to 29.5 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 2016-17, Using Rates in Effect for FY 2016-17

Inclusive of Service Charge (2 of 3)

| | | | | Rat | le | Total | | |
|-----------------------------|---------------|------------|-------------------|--------------|-----|----------|-------------|------------|
| Member/ | Billing | Service | Rate | Bloc | | Monthly | | |
| Average Monthly Use (Units) | Cycle | Charge | per ccf | (cc | f) | Bill | | Remarks |
| Hayward | Bimonthly | \$14.00 | \$5.80 | 1 - | 8 | \$42.79 | Effective: | 10/1/2016 |
| 6.2 | 5/8- | inch meter | \$7.14 | 9 - | 25 | | | |
| | | | \$8.41 | 26+ | | | | |
| Hillsborough | Monthly | \$60.00 | \$7.14 | 0 - | 10 | \$211.13 | Effective: | 1/1/2017 |
| 19.4 | Up to 1- | inch meter | \$8.44 | 10 - | 25 | | | |
| | | | \$9.68 | 25 - | 50 | | | |
| | | | \$11.58 | 50 - | 100 | | | |
| | | | \$14.18 | 100+ | | | | |
| Menlo Park | Monthly | \$20.08 | \$5.01 | 0 - | 0 | \$76.52 | Effective: | 7/1/2017 |
| 9.3 | 0 | inch meter | \$6.09 | 0+ | | | | |
| Mid-Peninsula WD | Monthly | \$22.00 | \$5.62 | 0 - | 2 | \$71.98 | Effective: | 7/1/2016 |
| 6.7 | 5/8- | inch meter | \$8.22 | 3 - | 9 | | | |
| | | | \$9.82 | 10 - | 22 | | | |
| | | | \$11.42 | 55+ | | | | |
| Millbrae | Bimonthly | \$30.00 | \$5.45 | | | \$47.90 | Effective: | 7/1/2016 |
| 6.0 | | | | | | | | |
| | | | <u> </u> | | | | | |
| Milpitas | Bimonthly | \$18.00 | \$6.43 | | | \$56.62 | Effective: | 4/1/2016 |
| 7.4 | 5/8- | inch meter | | | | | | |
| Mountain View | Bimonthly | \$12.70 | \$4.76 | 0 - | 3 | \$48.10 | Effective: | 7/1/2016 |
| 6.3 | Single-famil | | \$6.35 | 3 - | 15 | , | | , , |
| | J I | | \$10.16 | 15+ | | | | |
| North Coast CWD | Bimonthly | \$26.76 | \$4.10 | 1 - | 5 | \$34.00 | Effective: | 1/1/2017 |
| 5.0 | Í | | \$6.66 | 6 - | 10 | | | . , |
| | | | \$10.75 | 11 - | 19 | | | |
| | | | \$17.36 | 20+ | | | | |
| Palo Alto | Monthly | \$16.03 | \$6.66 | 0 - | 6 | \$90.27 | Effective: | 7/1/2017 |
| 9.7 | 5/8- | inch meter | \$9.18 | 7+ | | | | |
| Purissima Hills WD | AA a make lee | ¢1500 | ¢ | 1 - | 10 | ¢14445 | Effe estive | 10/21/2014 |
| | Monthly | \$15.00 | \$5.01 | | 10 | φ104.05 | Effective: | 12/31/2016 |
| 25.3 | 3/4- | inch meter | \$6.52 | 11 - 31 - | 30 | | | |
| | | | \$8.46 \$10.39 | 61 - | | | | |
| | | | \$10.39 | 01 - | 100 | | | |

^{*} Average single family use among BAWSCA agencies varies from 4.1 to 23.8 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 2016-17, Using Rates in Effect for FY 2016-17

Inclusive of Service Charge (3 of 3)

| | | | | Rat | | Total | | |
|---|---------------|-------------|-------------|----------|-------|----------|------------|--------------------------|
| Member/ | Billing | Service | Rate | Bloc | | Monthly | | |
| Average Monthly Use (Units) | Cycle | Charge | per ccf | (ccf | | Bill | | Remarks |
| Redwood City | Bimonthly | \$56.98 | \$5.27 | 0 - | 8 | \$66.39 | Effective: | 8/1/2016 |
| 7.2 | | | \$6.32 | 9 - | 20 | | | |
| | | | \$8.77 | 21 - | 40 | | | |
| | | | \$11.57 | 41 + | | | | |
| San Bruno | Bimonthly | \$19.49 | \$7.36 | 0 - | 10 | \$72.76 | Effective: | 7/1/2017 |
| 8.6 | 3/4 i | nch meter | \$8.83 | 11 - | 20 | | | |
| | | | \$11.78 | 21 + | | | | |
| San Jose MWD-N | Bimonthly | \$32.02 | \$3.74 | 0 - | 7 | \$40.42 | Effective: | 7/1/2016 |
| 6.5 | 5/8-i | nch meter | \$4.31 | 7+ | | | | , , |
| | | | | | | | | |
| Santa Clara | Monthly | \$4.16 | \$4.95 | | | \$41.76 | Effective: | 12/31/2016 |
| 8.4 | | | | | | | | Service charge is the |
| | | | | | | | | minimum monthly |
| | | | | | | | | charge, not added |
| | | | | | | | | if usage is greater than |
| | | | | | | | | the minimum charge. |
| Sunnyvale | Bimonthly | \$18.80 | \$3.75 | 0 - | 5 | \$5.25 | Effective: | 7/1/2016 |
| 7.9 | 5/8 x 3/4 i | nch meter | \$4.58 | 6 - | 0 | | | , , |
| | , , , | | \$0.00 | 0 - | 0 | | | |
| | | | \$0.00 | 0+ | | | | |
| Westborough WD | Bimonthly | \$12.70 | \$6.48 | | | \$42.32 | Effective: | 7/1/2016 |
| 5.6 | , , | | | | | <u> </u> | | .,, . |
| | | | | | | | | |
| * Average single family use amo individually metered single fam | - | - | | | | - | | |
| (Table 4A) by the number of si | ngle family a | ccounts (Ta | ble 4B); di | ivided b | y 12. | | | |
| | | | | | | | | |
| | | | | | | | | |
| Summary Billing Information | | | | | | | | |
| | | Average | | | | | | |
| | **Average | Monthly | | | | | | |
| | Monthly | Service | | | | | | |
| | Bill | Charge | | | | | | |
| All BAWSCA Agencies | \$71.23 | \$14.96 | | | | | | |
| Municipal Agencies Only | \$66.37 | \$15.29 | | | | | | |
| Special Districts / Private | \$77.86 | \$14.52 | | | | | | |

** Inclusive of service charge

Source: BAWSCA FY 2016-17 Annual Survey

Table 8C: SF RWS Wholesale Water Rates and BAWSCA Bond Surcharges FY 1984-85 to Present

| | Wholesale Water | BAWSCA Bond |
|---------|-----------------|--------------------|
| Year | Rate (\$/Ccf) | Surcharge (\$/Ccf) |
| 1984-85 | \$ 0.31 | \$ - |
| 1985-86 | \$ 0.31 | \$ - |
| 1986-87 | \$ 0.27 | \$ - |
| 1987-88 | \$ 0.27 | \$ - |
| 1988-89 | \$ 0.31 | \$ - |
| 1989-90 | \$ 0.41 | \$ - |
| 1990-91 | \$ 0.52 | \$ - |
| 1991-92 | \$ 0.73 | \$ - |
| 1992-93 | \$ 0.87 | \$ - |
| 1993-94 | \$ 0.58 | \$ - |
| 1994-95 | \$ 0.69 | \$ - |
| 1995-96 | \$ 0.69 | \$ - |
| 1996-97 | \$ 0.69 | \$ - |
| 1997-98 | \$ 0.69 | \$ - |
| 1998-99 | \$ 0.60 | \$ - |
| 1999-00 | \$ 0.82 | \$ - |
| 2000-01 | \$ 0.86 | \$ - |
| 2001-02 | \$ 0.88 | \$ - |
| 2002-03 | \$ 0.88 | \$ - |
| 2003-04 | \$ 1.10 | \$ - |
| 2004-05 | \$ 1.13 | \$ - |
| 2005-06 | \$ 1.02 | \$ - |
| 2006-07 | \$ 1.22 | \$ - |
| 2007-08 | \$ 1.30 | \$ - |
| 2008-09 | \$ 1.43 | \$ - |
| 2009-10 | \$ 1.65 | \$ - |
| 2010-11 | \$ 1.90 | \$ - |
| 2011-12 | \$ 2.63 | \$ - |
| 2012-13 | \$ 2.93 | \$ - |
| 2013-14 | \$ 2.45 | \$ 0.35 |
| 2014-15 | \$ 2.93 | \$ 0.35 |
| 2015-16 | \$ 3.75 | \$ 0.39 |
| 2016-17 | \$ 4.10 | \$ 0.47 |

*In 2013, BAWSCA issued Revenue Bonds (Series 2013A and 2013B) to prepay the remaining capital cost recovery payments that the BAWSCA member agencies owed the the SFPUC as of June 30, 2013. Beginning in FY 2013-14, BAWSCA began collecting a fixed bond surcharge from each member agency, as a separate item on the monthly water bills from the SFPUC, to make debt service payments on the revenue bonds, reimburse bond administration expenses, and, as necessary, replenish a stabilization fund set up to limit the volatility in annual changes in the payments.

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 | 350,538 |
| Number of Accounts | 84,516 |
| Number of SF RWS Connections | 8 |
| Connections To SF RWS Mains | BDPL 1, 2, 3, 4 and 5 |
| Avg. Day Demand (mgd) | 34.81 |
| Avg. Day Purchases From SF RWS (mgd) | 6.22 |
| % Demand Met With SF RWS Supplies | 18% |
| Maximum Local Water Production (mgd) | 86.5 mgd (Source: ACWD Engineering Report 2011, and includes WTP2, Blending Facility, Desal, and Direct Takeoffs from SFPUC) |
| Alternative Supply Sources | SF RWS, State Water Project (SWP), Local Groundwater |
| Interties With Other Agencies | Milpitas, Hayward |
| Local Storage (mg) | 85.0 maximum capacity – volume in storage is typically 60 to 80% based on seasonal operating conditions |
| Days of Storage | 1.7 - based on maximum capacity storage and average daily demand |

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 2000-2015 period, 39% 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 24% 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 38%) of the distribution system supplies. (Percentage values do not add up to 100% due to rounding).

Water Supply and Demand

| upply by Source | Actual FY 13-14 (ccf) | Actual FY 14-15 (ccf) | Actual FY 15-16 (ccf) | Actual FY 16-17 (ccf) |
|---------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| San Francisco Water | 5,684,759 | 3,770,321 | 3,037,166 | 3,081,217 |
| State Water Project | 7,228,782 | 6,304,439 | 4,766,541 | 3,644,398 |
| Desalinated Water | 3,666,711 | 3,554,813 | 3,328,476 | 3,428,770 |
| Local Groundwater | 3,625,802 | 2,591,578 | 2,267,513 | 2,908,717 |
| Surface Water | 67,954 | 520,561 | 2,405,251 | 3,923,142 |
| Recycled Water | 0 | 0 | 0 | 0 |
| Total | 20,274,008 | 16,751,711 | 15,804,947 | 16,986,243 |
| mgd equivalent | 41.55 | 34.33 | 32.39 | 34.81 |

| Dema | nd l | hv S | Sect | or |
|--------|------|------|------|----|
| Dellia | | | | |

| Residential | 12,967,918 | 10,337,623 | 9,278,709 | 10,686,198 |
|-----------------------|------------|------------|------------|------------|
| Commercial/Industrial | 3,205,437 | 2,983,057 | 2,846,250 | 2,999,503 |
| Other | 878,299 | 658,676 | 553,225 | 647,774 |
| Dedicated Irrigation | 2,269,912 | 1,590,737 | 1,203,688 | 1,545,155 |
| Unaccounted for | 952,441 | 1,181,616 | 1,923,075 | 1,107,614 |
| Total | 20,274,008 | 16,751,711 | 15,804,947 | 16,986,243 |
| mgd equivalent | 41.55 | 34.31 | 32.39 | 34.81 |

| Per Capita Use | | Actual FY 13-14 (gpcpd) | Actual FY 14-15 (gpcpd) | Actual FY 15-16 (gpcpd) | Actual FY 16-17 (gpcpd) |
|----------------|-------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| _ | Residential | 78 | 62 | 55 | 62 55 |
| | Gross | 122 | 100 | 93 | 99 |

Page 9-4 Agency Profiles

Storage Reservoirs

| Designation | Capacity (gallons) | D |
|----------------|-----------------------|---|
| Alameda | 16,250,000 | ٨ |
| Appian | 780,000 | ٨ |
| Avalon | 2,700,000 | C |
| Canyon Heights | 510,000 | P |
| Decoto | 14,550,000 | ٧ |
| Hidden Valley | 2,000,000 | ٧ |

| Designation | Capacity (gallons) |
|------------------|-----------------------|
| Mayhew | 4,300,000 |
| Middlefield | 7,230,000 |
| Ohlone | 1,500,000 |
| Patterson | 14,210,000 |
| Vineyard Heights | 540,000 |
| Whitfield | 20,400,000 |

Total 84,970,000

ACWD Engineering Report, 2011.

Water Treatment Facilities

| Design ation | Capacity ation (mgd) Statu | | |
|-------------------|-------------------------------|--------|--|
| WTP #2 | 22 | Active | |
| Blending Facility | 48 | Active | |

| Designation | Capacity (mgd) | Status |
|---------------------------------|-------------------|----------|
| Mission San Jose WTP | 3.2 | Inactive |
| Newark Desalination Facility | 12.5 | Active |

Total 86.5

Wells

| Name | Capacity (mgd) | Status |
|---------|-------------------|--------|
| Mowry 1 | 1.4 | Active |
| Mowry 2 | 3.2 | Active |
| Mowry 3 | 3.2 | Active |
| Mowry 4 | 3.0 | Active |
| Mowry 6 | 3.3 | Active |
| Mowry 7 | 3.3 | Active |
| Mowry 8 | 3.0 | Active |
| Mowry 9 | 3.3 | Active |

| Name | Capacity (mgd) | Status |
|------|-------------------|--------|
| PT 1 | 3.4 | Active |
| PT 2 | 3.4 | Active |
| PT 3 | 3.4 | Active |
| PT 4 | 3.4 | Active |
| PT 5 | 3.4 | Active |
| PT 6 | 3.4 | Active |
| PT 7 | 3.4 | Active |
| PT 8 | 3.4 | Active |

Total 50.9

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 | 3.4 square miles |
|--------------------------------------|---|
| Service Population* | 4,156 |
| Number of Accounts | 2,040 |
| Number of SF RWS Connections | 5 |
| Connections To SF RWS Mains | Crystal Springs Pipeline #1 and #2 |
| Avg. Day Demand (mgd) | 0.60 |
| Avg. Day Purchases From SF RWS (mgd) | 0.53 |
| % 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. |

^{*}Service population is based on the 2010 U.S. Census data for the City of Brisbane.

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.

Page 9-6 Agency Profiles

| Supply by Source | Actual FY 13-14 (ccf) | Actual FY 14-15 (ccf) | Actual FY 15-16 (ccf) | Actual FY 16-17 (ccf) |
|-----------------------|-------------------------------|-------------------------------|-------------------------------|-----------------------------|
| San Francisco Water | 302,776 | 280,029 | 257,414 | 294,756 |
| Recycled Water | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 |
| Total | 302,776 | 280,029 | 257,414 | 294,756 |
| mgd equivalent | 0.62 | 0.57 | 0.53 | 0.60 |
| Demand by Sector | | | | |
| Residential | 102,695 | 93,420 | 89,940 | 97,425 |
| Commercial/Industrial | 77,363 | 85,018 | 99,719 | 110,718 |
| Other | 13,488 | 4,795 | 3,825 | 10,803 |
| Dedicated Irrigation | 89,577 | 76,522 | 43,195 | 48,045 |
| Unaccounted for | 19,653 | 20,274 | 20,735 | 27,765 |
| Total | 302,776 | 280,029 | 257,414 | 294,756 |
| mgd equivalent | 0.62 | 0.57 | 0.53 | 0.60 |
| Per Capita Use | Actual FY 13-14 (gpcpd) | Actual FY 14-15 (gpcpd) | Actual FY 15-16 (gpcpd) | |
| Residential | 49 | 45 | 40 | 48 |
| Gross | 145 | 134 | 116 | 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

| g | | Capacity |
|-----------------------------|-------|-----------|
| Designation | Туре | (gallons) |
| Glen Park Tank 1 (Brisbane) | Steel | 200,000 |
| Glen Park Tank 2 (Brisbane) | Steel | 200,000 |
| Guadalupe Tank (Brisbane) | Steel | 1,000,000 |
| Crocket Tank (GVMID) | Steel | 500,000 |
| Margaret Tank (GVMID) | Steel | 500,000 |
| Total | | 2,900,000 |

Interties

| Name | No. | Diameter (in.) |
|---------------------------|-----|-------------------|
| 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/

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 | 31,109 |
| Number of Accounts | 9,194 |
| Number of SF RWS Connections | 6 |
| Connections To SF RWS Mains | Crystal Springs #2 and #3, Sunset Pipeline |
| Avg. Day Demand (mgd) | 3.56 |
| Avg. Day Purchases From SF RWS (mgd) | 3.26 |
| % Demand Met With SF RWS Supplies | 92% |
| 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.

Page 9-8 Agency Profiles

| Supply by Source | Actual FY 13-14 (ccf) | Actual FY 14-15 (ccf) | Actual FY 15-16 (ccf) | Actual FY 16-17 (ccf) |
|---------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| San Francisco Water | 2,001,619 | 1,791,539 | 1,505,779 | 1,592,044 |
| Recycled Water | 146,400 | 146,400 | 146,388 | 146,400 |
| Other | 0 | 0 | 0 | 0 |
| Total | 2,001,619 | 1,937,939 | 1,652,167 | 1,738,444 |
| mgd equivalent | 4.40 | 3.97 | 3.39 | 3.56 |

Demand by Sector

| Residential | 1,179,652 | 1,000,212 | 855,442 | 915,404 |
|-----------------------|-----------|-----------|-----------|-----------|
| Commercial/Industrial | 426,610 | 436,073 | 457,266 | 433,018 |
| Other | 135,455 | 36,765 | 35,083 | 39,480 |
| Dedicated Irrigation | 103,322 | 83,796 | 55,755 | 213,269 |
| Unaccounted for | 302,980 | 381,093 | 55,755 | 137,273 |
| Total | 2,001,619 | 1,937,939 | 1,652,167 | 1,738,444 |
| mgd equivalent | 4.40 | 3.97 | 3.39 | 3.56 |

| Per Capita Use | | Actual FY 13-14 (gpcpd) | Actual FY 14-15 (gpcpd) | Actual FY 15-16 (gpcpd) | Actual FY 16-17 (gpcpd) |
|----------------|-------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| | Residential | 80 | 62 | 56 | 60 |
| | Gross | 135 | 111 | 99 | 105 |

Facilities and Distribution

Storage Reservoirs

| Designation | Туре | Capacity (gallons) | Designation | Туре | 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 |

2,941,000 Total

Interties

| Name | No. | Diameter (in.) |
|-------------------------|-----|-------------------|
| CWS – City of San Mateo | 2 | 6 |
| | 1 | 8 |
| Hillsborough | 4 | 6 |
| | | |

| Name | No. | Diameter (in.) |
|----------|-----|-------------------|
| Millbrae | 2 | 6 |
| | 3 | 8 |
| | 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 | 69,857 |
| Number of Accounts | 18,568 |
| 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) | 9.24 |
| Avg. Day Purchases From SF RWS (mgd) | 7.92 |
| % Demand Met With SF RWS Supplies | 91% |
| 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

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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

| Water Supply and Demand | | | | |
|-------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Supply by Source | Actual FY 13-14 (ccf) | Actual FY 14-15 (ccf) | Actual FY 15-16 (ccf) | Actual FY 16-17 (ccf) |
| San Francisco Water | 6,259,793 | 5,077,292 | 3,864,869 | 4,118,677 |
| Local Groundwater | 0 | 0 | 0 | 0 |
| Surface Water | 0 | 190,342 | 329,563 | 388,045 |
| Recycled Water | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 |
| Total | 6,259,793 | 5,267,634 | 4,194,432 | 4,506,722 |
| mgd equivalent | 12.83 | 10.80 | 8.60 | 9.24 |
| Demand by Sector | | | | |
| Residential | 5,213,264 | 4,547,592 | 3,363,149 | 3,683,770 |
| Commercial/Industrial | 553,536 | 514,882 | 426,018 | 431,082 |
| Other | 166,553 | 123,349 | 101,350 | 118,413 |
| Dedicated Irrigation | 9,578 | 11,584 | 10,648 | 10,355 |
| Unaccounted for | 316,862 | 70,287 | 293,267 | 263,102 |
| Total | 6,259,793 | 5,267,634 | 4,194,432 | 4,506,722 |
| mgd equivalent | 12.83 | 10.80 | 8.60 | 9.24 |

| Per Capita Use | Actual FY 13-14 (gpcpd) | Actual FY 14-15 (gpcpd) | Actual FY 15-16 (gpcpd) | Actual FY 16-1 <i>7</i> (gpcpd) |
|----------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------------|
| Residential | 183 | 156 | 115 | 108 |
| Gross | 220 | 180 | 144 | 132 |

Facilities and Distribution

Storage Reservoirs

| Designation | Туре | Capacity (gallons) | Designation | Туре | 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. 01 <i>5-</i> 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 | | | |
| | | | | | 00/100000 |

Total 226,192,000

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 |

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 $^{^{\}ast}$ Reservoir storage capacity has been reduced by 6 feet in compliance with DSOD requirements.

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 | 135,455 |
| Number of Accounts | 35,788 |
| 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) | 11.35 |
| Avg. Day Purchases From SF RWS (mgd) | 11.35 |
| % Demand Met With SF RWS Supplies | 100% |
| 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.

| Supply by Source | Actual FY 13-14 (ccf) | Actual FY 14-15 (ccf) | Actual FY 15-16 (ccf) | Actual FY 16-17 (ccf) |
|-----------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| San Francisco Water | 6,956,723 | 6,016,058 | 5,325,284 | 5,539,001 |
| Local Groundwater | 0 | 0 | 0 | 0 |
| Surface Water | 0 | 0 | 0 | 0 |
| Recycled Water | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 |
| Total | 6,956,723 | 6,016,058 | 5,325,284 | 5,539,001 |
| mgd equivalent | 14.26 | 12.33 | 10.91 | 11.35 |
| Demand by Sector | | | | |
| Residential | 4,843,897 | 4,153,923 | 3,523,247 | 3,693,419 |
| Commercial/Industrial | 1,295,186 | 1,195,269 | 1,080,215 | 1,069,940 |
| Other | 442,095 | 374,940 | 324,881 | 355,830 |
| Unaccounted for | 375,545 | 291,926 | 396,941 | 419,812 |
| Total | 6,956,723 | 6,016,058 | 5,325,284 | 5,539,001 |
| mgd equivalent | 14.26 | 12.33 | 10.91 | 11.35 |

| Per Capita Use | Actual FY 13-14 (gpcpd) | Actual FY 14-15 (gpcpd) | Actual FY 15-16 (gpcpd) | Actual FY 16-17 (gpcpd) |
|----------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Residential | 77 | 64 | 54 | 56 |
| Gross | 110 | 92 | 82 | 84 |

Facilities and Distribution

Storage Reservoirs

| Designation | Туре | Capacity (gallons) | • | | Capacity (gallons) |
|-----------------|---------------------------------|-----------------------|-----------------|-------|-----------------------|
| 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 |

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| Designation | Туре | Capacity (gallons) | Designation | Туре | Capacity (gallons) |
|------------------------|---------------------------------|-----------------------|-----------------|---------------------------------|-----------------------|
| Sta. 025-Tank 2 | Steel | 250,000 | Sta. 033-Tank 2 | Steel | 500,000 |
| Sta. 025-Tank 3 | Steel | 250,000 | _ | | |
| Storage Reservoirs | | | San Mateo Total | | 14,656,000 |
| Designation | Туре | Capacity (gallons) | Designation | Туре | Capacity (gallons) |
| San Carlos | | | San Carlos | | |
| Sta. 103-Tank 1 | Concrete | 0 | Sta. 118-Tank 1 | Steel | 200,000 |
| Sta. 106-Tank 2 | Steel | 0 | Sta. 118-Tank 2 | Steel | 750,000 |
| Sta. 106-Tank 3 | Steel | 500,000 | Sta. 119-Tank 1 | Steel | 400,000 |
| Sta. 109-Tank 1 | Concrete | 50,000 | Sta. 120-Tank 1 | Steel | 500,000 |
| Sta. 109-Tank 2 | Steel | 250,000 | Sta. 122-Tank 1 | Fiberglass- Lined Redwood | 0 |
| Sta. 112-Tank 1 | Steel | 200,000 | Sta. 122-Tank 2 | Fiberglass- Lined Redwood | 0 |
| Sta. 112-Tank 2 | Steel | 500,000 | Sta. 123-Tank 3 | Steel | 250,000 |
| Sta. 112-Tank 3 | Steel | 700,000 | Sta. 123-Tank 4 | Steel | 425,000 |
| Sta. 115-Tank 1 | Steel | 250,000 | Sta. 124-Tank 1 | Steel | 78,000 |
| Sta. 116-Tank 2 | Fiberglass- Lined Redwood | 100,000 | Sta. 125-Tank 1 | Fiberglass- Lined Redwood | 50,000 |
| Sta. 116-Tank 3 | Fiberglass- Lined Redwood | 100,000 | | | |

San Carlos Total
San Mateo and San Carlos Total

5,303,000

19,959,000

Interties

| Name | No. | Diameter (in.) | Name | No. | Diameter (in.) |
|------------------|-----|-------------------|------------------|-----|-------------------|
| San Carlos | | | San Mateo | | |
| Redwood City | 3 | 8, 8, 12 | Burlingame | 3 | 4, 4, 6 |
| Mid-Peninsula WD | 3 | 8, 8, 8 | 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 | 61,769 |
| Number of Accounts | 16,339 |
| 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) | 5.87 |
| Avg. Day Purchases From SF RWS (mgd) | 4.91 |
| % Demand Met With SF RWS Supplies | 77% |
| 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.

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| Supply by Source | Actual FY 13-14 (ccf) | Actual FY 14-15 (ccf) | Actual FY 15-16 (ccf) | Actual FY 16-17 (ccf) |
|-----------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| SF RWS - Customary | 3,144,748 | 2,745,921 | 2,394,025 | 2,193,604 |
| SF RWS - Supplemental | 0 | | 38,981 | 668,470 |
| Local Groundwater | 471,510 | 524,745 | 511,717 | 0 |
| Surface Water | 0 | 0 | 0 | 0 |
| Recycled Water | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 |
| Total | 3,616,258 | 3,270,666 | 2,944,723 | 2,862,074 |
| mgd equivalent | 7.41 | 6.70 | 6.03 | 5.87 |
| Demand by Sector | | | | |
| Residential | 1,432,239 | 1,271,240 | 1,1 <i>57</i> ,906 | 1,182,800 |
| Commercial/Industrial | 1,912,861 | 1,784,482 | 1,627,433 | 1,555,853 |
| Other | 1 <i>7</i> 8,111 | 131,918 | 92,474 | 92,621 |
| Unaccounted for | 93,047 | 83,026 | 66,910 | 30,800 |
| Total | 3,616,258 | 3,270,666 | 2,944,723 | 2,862,074 |

| Per Capita Use | | Actual FY 13-14 (gpcpd) | Actual FY 14-15 (gpcpd)) | Actual FY 15-16 (gpcpd) | Actual FY 16-17 (gpcpd) |
|----------------|-------------|-------------------------------|--------------------------------|-------------------------------|-------------------------------|
| | Residential | 49 | 43 | 39 | 39 |
| | Gross | 123 | 109 | 99 | 95 |

7.41

6.70

6.03

5.87

Facilities and Distribution

mgd equivalent

Storage Reservoirs

| Туре | Capacity (gallons) | Designation | Туре | Capacity (gallons) |
|----------|---|---|---|--|
| Steel | 500,000 | Sta. 013-Res.10, Tank 1 | Steel | 500,000 |
| Steel | 75,000 | Sta. 011-Res. 7, Tank 1 | Steel | 250,000 |
| Concrete | 1,500,000 | Sta. 011-Res. 7, Tank 2 | Steel | 500,000 |
| Concrete | 1,500,000 | Sta. 012-Res. 9, Tank 1 | Steel | 500,000 |
| Steel | 250,000 | Sta. 014-Res. 11, Tank 1 | Steel | 1,000,000 |
| Steel | 250,000 | Sta. 015-Res. 12, Tank 1 | Steel | 1,000,000 |
| Redwood | 50,000 | Sta. 101-Tank 1 | Steel | 250,000 |
| | Steel Steel Concrete Concrete Steel Steel | Type (gallons) Steel 500,000 Steel 75,000 Concrete 1,500,000 Concrete 1,500,000 Steel 250,000 Steel 250,000 | Type (gallons) Designation Steel 500,000 Sta. 013-Res.10, Tank 1 Steel 75,000 Sta. 011-Res. 7, Tank 1 Concrete 1,500,000 Sta. 011-Res. 7, Tank 2 Concrete 1,500,000 Sta. 012-Res. 9, Tank 1 Steel 250,000 Sta. 014-Res. 11, Tank 1 Steel 250,000 Sta. 015-Res. 12, Tank 1 | Type (gallons) Designation Type Steel 500,000 Sta. 013-Res.10, Tank 1 Steel Steel 75,000 Sta. 011-Res. 7, Tank 1 Steel Concrete 1,500,000 Sta. 011-Res. 7, Tank 2 Steel Concrete 1,500,000 Sta. 012-Res. 9, Tank 1 Steel Steel 250,000 Sta. 014-Res. 11, Tank 1 Steel Steel 250,000 Sta. 015-Res. 12, Tank 1 Steel |

Total 8,125,000

Wells

| Name | Capacity (gpm) | Status* |
|---------|-------------------|---------------|
| 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 |
| | | (Active wells |

Total 1,220 (Active wells only)

Interties

| Name | No. | Diameter (in.) |
|-----------|-----|-------------------|
| Brisbane | 1 | 16 |
| San Bruno | 1 | 6 |
| Daly City | 5 | 2, 4, 4, 8, 10 |

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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 | 16,704 |
| Number of Accounts | 7,434 |
| Number of SF RWS Connections | 2 |
| Connections To SF RWS Mains | Crystal Springs Intake and Stone Dam (Pilarcitos Lake) |
| Avg. Day Demand (mgd) | 1.67 |
| Avg. Day Purchases From SF RWS (mgd) | 1.18 |
| % Demand Met With SF RWS Supplies | 71% |
| 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.

| Transi coppi, and communication | Actual FY 13-14 | Actual FY 14-15 | Actual FY 15-16 | Actual FY 16-17 |
|---------------------------------|--------------------|--------------------|--------------------|--------------------|
| Supply by Source | (ccf) | (ccf) | (ccf) | (ccf) |
| San Francisco Water | 940,214 | 940,214 | 575,225 | 515,655 |
| Local Groundwater | 2,674 | 2,674 | 2,006 | 10,227 |
| Surface Water | 54,372 | 54,372 | 240,108 | 286,685 |
| Recycled Water | 0 | 0 | 0 | 0 |
| Total | 997,260 | 997,260 | 81 7, 339 | 812 , 567 |
| mgd equivalent | 2.04 | 2.04 | 1.67 | 1.67 |
| Demand by Sector | | | | |
| Residential | 552,572 | 552,572 | 423,998 | 427,958 |
| Commercial/Industrial | 136,934 | 136,934 | 123,773 | 44,685 |
| Other | 110,274 | 110,274 | 95,609 | 90,426 |
| Dedicated Irrigation | 122,219 | 122,219 | 101,460 | 1 <i>75</i> ,193 |
| Non-Revenue Water | 75,260 | 75,260 | 72,499 | 74,305 |
| Total | 997,259 | 997,259 | 817,339 | 812,567 |

| Per Capita Use | Actual FY 13-14 (gpcpd) | Actual FY 14-15 (gpcpd) | Actual FY 15-16 (gpcpd) | Actual FY 16-17 (gpcpd) |
|----------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Residentia | l 68 | 68 | 52 | 53 |
| Gros | 123 | 123 | 100 | 100 |

2.04

2.04

1.67

1.67

Facilities and Distribution

Treated Water Storage Reservoirs

| riedied Waler Slorage Reservoirs | | | |
|----------------------------------|---------|------------------|--|
| Designation | Туре | 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 | |
| Total | | 8.05 | |

mgd equivalent

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Surface Water Treatment Facilities

| Designation | | Capacity (mgd) |
|---------------|-------|-------------------|
| Nunes WTP | | 4.5 |
| Denniston WTP | | 1.0 |
| | Total | 5.5 |

Wells

| Name | Capacity (gpm)* | Status |
|-------|--------------------|------------------------------------|
| 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 |
| Р3 | | Standby |
| P3A | | Standby |
| P4 | 100 | November 1- March 31 Standby |
| P4A | 200 | November 1- March 31 |
| P5 | 65 | November 1- March 31 |
| Total | 582 | |

*Capacity is dependent on stream flows

City of Daly City

Department of Water and Wastewater Resources 153 Lake Merced Boulevard

Daly City, California 94015-1097

Phone: (650) 991-8200 Fax: (650) 991-8220

Website: http://www.dalycity.org/

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 | 109,139 |
| Number of Accounts | 23,050 |
| 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) | 6.49 |
| Avg. Day Purchases From SF RWS (mgd) | 3.83 |
| % Demand Met With SF RWS Supplies | 59% |
| 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.

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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.

| Supply by Source | Actual FY 13-14 (ccf) | Actual FY 14-15 (ccf)) | Actual FY 15-16 (ccf) | Actual FY 16-17 (ccf) |
|---------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|
| San Francisco Water | 1,713,514 | 1,654,762 | 2,152,800 | 1,867,312 |
| SF RWS Supplemental Water | 0 | 0 | 146,803 | 1,041,345 |
| Local Groundwater | 1,494,788 | 1,231,086 | 750,309 | 0 |
| Recycled Water | 141,131 | 9,203 | 91,882 | 259,062 |
| Total | 3,349,433 | 2,895,051 | 3,141,794 | 3,167,719 |
| mgd equivalent | 6.86 | 5.93 | 6.44 | 6.49 |

Recycled water reflected in this table shows the amount of recycled water that offsets SF RWS water.

Demand by Sector

| Residential | 2,401,406 | 2,229,036 | 2,129,965 | 2,170,365 |
|-----------------------|-----------|----------------|-----------|-----------|
| Commercial/Industrial | 381,955 | 381,225 | 414,229 | 403,779 |
| Other | 123,297 | 148,036 | 107,583 | 69,008 |
| Dedicated Irrigation | 238,144 | <i>7</i> 6,081 | 49,839 | 294,993 |
| Unaccounted for | 204,631 | 60,673 | 440,178 | 229,574 |
| Total | 3,346,447 | 2,895,051 | 3,141,794 | 3,167,719 |
| mgd equivalent | 6.86 | 5.93 | 6.44 | 6.49 |
| | | | | |

| Per Capita Use | Actual FY 13-14 (gpcpd) | Actual FY 14-15 (gpcpd) | Actual FY 15-16 (gpcpd) | Actual FY 16-17 (gpcpd) |
|-----------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Residential | 47 | 42 | 40 | 41 |
| Gross (Less Recycled Water) | 63 | 55 | 57 | 55 |

Facilities and Distribution

Storage Reservoirs

| Designation | Туре | Capacity (gallons) | Designation |
|--------------|----------|-----------------------|-----------------|
| Reservoir 1 | Concrete | 703,000 | Reservoir 5B |
| Reservoir 2 | Concrete | 2,303,000 | Reservoir 6 |
| Reservoir 2B | Concrete | 2,000,000 | Reservoir 6B |
| Reservoir 3 | Concrete | 978,000 | Reservoir 7 |
| Reservoir 4 | Concrete | 1,370,000 | Reservoir 8 |
| Reservoir 5 | Concrete | 1,481,000 | F Bay (Private) |

| Designation | Туре | Capacity (gallons) |
|-----------------|----------|-----------------------|
| Reservoir 5B | Concrete | 10,400,000 |
| Reservoir 6 | Concrete | 1,495,000 |
| Reservoir 6B | Concrete | 1,451,000 |
| Reservoir 7 | Steel | 1,487,000 |
| Reservoir 8 | Steel | 630,000 |
| F Bay (Private) | Steel | 285,000 |
| | | |

Total 24,583,000

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Wells

| Name | Capacity (gpm) | Status |
|-----------|-------------------|----------|
| Westlake | 410 | Active |
| Well 4 | 426 | Active |
| Jeff Well | 340 | Active |
| Vale | 693 | Active |
| A St. | 524 | Inactive |
| JS Well | 550 | Active |

Total 2,943

Interties

| Name | No. | Diameter (in.) |
|-------------|-----|-------------------|
| 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 | 26,181 | |
| Number of Accounts | 3,930 | |
| Number of SF RWS Connections | 3 | |
| Connections To SF RWS Mains | BDPL 1 and 2 | |
| Avg. Day Demand (mgd) | 1.51 | |
| Avg. Day Purchases From SF RWS (mgd) | 1.42 | |
| % Demand Met With SF RWS Supplies | 100% | |
| 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.

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| Supply by Source | Actual FY 13-14 (ccf) | Actual FY 14-15 (ccf | Actual FY 15-16 (ccf) | Actual FY 16-17 (ccf) |
|----------------------------|-----------------------------|----------------------------|-----------------------------|-----------------------------|
| San Francisco Water | 723,320 | 768,310 | 690728 | 734,911 |
| Resale SF RWS (Menlo Park) | -4,280 | -2,536 | 0 | 0 |
| Local Groundwater | 1,000 | 0 | 0 | 0 |
| Recycled Water | 0 | 0 | 0 | 0 |
| Other | 0 | 607 | 0 | 0 |
| Total | 720,040 | <i>7</i> 68 , 916 | 690,728 | <i>7</i> 34 , 911 |
| mgd equivalent | 1.48 | 1.58 | 1.42 | 1.51 |

Demand by Sector

| Residential | 645,589 | 514,992 | 61 <i>5</i> ,001 | 523,703 |
|-----------------------|------------------|--------------------------|------------------|--------------------------|
| Commercial/Industrial | 141,482 | 277,171 | 67,549 | 125,874 |
| Other | 24,366 | 31,276 | 58 | 12,304 |
| Unaccounted for | -91 , 397 | -54,523 | 8,120 | 73,030 |
| Total | 811,437 | <i>7</i> 68 , 916 | 690,728 | <i>7</i> 34 , 911 |
| mgd equivalent | 1.48 | 1.58 | 1.42 | 1.51 |

| Per Capita Use | Actual FY 13-14 (gpcpd) | Actual FY 14-15 (gpcpd) | Actual FY 15-16 (gpcpd) | Actual FY 16-17 (gpcpd) |
|----------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Residentio | al 51 | 36 | 52 | 41 |
| Gro | ss 57 | 54 | 58 | 58 |

Facilities and Distribution

Wells

| AAC112 | Capacity | |
|-------------|----------|---------|
| Name | (gpm) | Status |
| EPACWD Well | 0.2 | Standby |
| Total | 0.2 | |

Interties

| Name | No. | Diameter (in.) |
|------------|-----|-------------------|
| 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 | 37,518 |
| Number of Accounts | 8,164 |
| Number of SF RWS Connections | 1 |
| Connections To SF RWS Mains | Crystal Springs #2 |
| Avg. Day Demand (mgd) | 3.84 |
| Avg. Day Purchases From SF RWS (mgd) | 3.62 |
| % Demand Met With SF RWS Supplies | 100% |
| 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.

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| Supply by Source | Actual FY 13-14 (ccf) | Actual FY 14-15 (ccf) | Actual FY 15-16 (ccf) | Actual FY 16-17 (ccf) |
|---------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| San Francisco Water | 1,942,333 | 1,930,526 | 1,768,029 | 1,874,751 |
| Local Groundwater | 0 | 0 | 0 | 0 |
| Surface Water | 0 | 0 | 0 | 0 |
| Recycled Water | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 |
| Total | 1,942,333 | 1,930,526 | 1,768,029 | 1,874,751 |
| mgd equivalent | 3.98 | 3.96 | 3.62 | 3.84 |

Demand by Sector

| Residential | 1,306,850 | 1,158,140 | 1,007,662 | 1,045,227 |
|-----------------------|-----------|-----------------|------------------|-----------|
| Commercial/Industrial | 238,343 | 225,280 | 217,524 | 213,328 |
| Other | 56,839 | 35,024 | 27,954 | 27,720 |
| Dedicated Irrigation | 545,676 | 469,61 <i>7</i> | 351 <i>,77</i> 2 | 381,425 |
| Unaccounted for | -205,375 | 42,465 | 163,117 | 207,051 |
| Total | 1,942,333 | 1,930,526 | 1,768,029 | 1,874,751 |
| mgd equivalent | 3.98 | 3.96 | 3.62 | 3.84 |

| Per Capita Use | Actual FY 13-14 (gpcpd) | Actual FY 14-15 (gpcpd) | Actual FY 15-16 (gpcpd) | Actual FY 16-17 (gpcpd) |
|----------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Residential | 72 | 64 | 56 | 57 |
| Gross | 108 | 107 | 97 | 102 |

Facilities and Distribution

Storage Reservoirs

| Designation | Туре | Capacity (mg) |
|----------------|-------|------------------|
| Storage Tank 1 | Steel | 4 |
| Storage Tank 2 | Steel | 4 |
| Storage Tank 3 | Steel | 4 |
| Storage Tank 4 | Conc. | 8 |
| Total | | 20 |

Interties

| Name | No. | Diameter (in.) |
|-----------------|-----|-------------------|
| CWS - San Mateo | 1 | 12 |
| Mid-Peninsula | 1 | 12 |

City of Hayward

Utilities & Environmental Services Department 777 B Street

Hayward, California 94541

Phone: (510) 583-4700 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 | 158,985 |
| Number of Accounts | 35,661 |
| Number of SF RWS Connections | 4 (two at each turnout) |
| Connections To SF RWS Mains | BDPL 1 and 2 |
| Avg. Day Demand (mgd) | 12.87 |
| Avg. Day Purchases From SF RWS (mgd) | 12.87 |
| % Demand Met With SF RWS Supplies | 100% |
| Maximum Local Water Production (mgd) | 0 |
| Alternative Supply Sources | Local Groundwater (Emergency Use Only) |
| Interties With Other Agencies | ACWD, EBMUD |
| Local Storage (mg) | 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 water wells, permitted for short term, emergency use, 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

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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 13-14 (ccf) | Actual FY 14-15 (ccf) | Actual FY 15-16 (ccf) | Actual FY 16-17 (ccf) |
|---------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| San Francisco Water | 7,402,067 | 6,634,616 | 5,979,616 | 6,281,522 |
| Local Groundwater | 0 | 0 | 0 | 0 |
| Recycled Water | 0 | 0 | 0 | 0 |
| Total | 7,402,067 | 6,634,616 | 5,979,616 | 6,281,522 |
| mgd equivalent | 1 <i>5</i> .1 <i>7</i> | 13.60 | 12.25 | 12.87 |

Demand by Sector

| Residential | 4,157,114 | 3,609,950 | 3,372,168 | 3,486,839 |
|-----------------------|------------------------|-----------|-----------|-----------|
| Commercial/Industrial | 1,630,978 | 1,452,978 | 1,371,311 | 1,291,502 |
| Other | 383,686 | 306,320 | 277,018 | 305,097 |
| Dedicated Irrigation | 1,012,601 | 744,222 | 556,161 | 540,224 |
| Unaccounted for | 217,688 | 521,146 | 402,958 | 657,860 |
| Total | 7,402,067 | 6,634,616 | 5,979,616 | 6,281,522 |
| mgd equivalent | 1 <i>5</i> .1 <i>7</i> | 13.60 | 12.25 | 12.87 |

| Per Capita Use | | Actual FY 13-14 (gpcpd) | Actual FY 14-15 (gpcpd) | Actual FY 15-16 (gpcpd) | Actual FY 16-17 (gpcpd) |
|----------------|-------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| | Residential | 56 | 48 | 43 | 45 |
| _ | Gross | 100 | 89 | 77 | 81 |

Facilities and Distribution

Storage Reservoirs

| Capacity | | | |
|---------------|----------|-----------|--|
| Designation | Туре | (gallons) | |
| Treeview | Concrete | 3,000,000 | |
| Maitland | Concrete | 1,000,000 | |
| North Walpert | Concrete | 1,500,000 | |
| South Walpert | Steel | 5,300,000 | |
| D Street | Concrete | 1,000,000 | |
| High School | Concrete | 1,000,000 | |
| Garin Hills | Steel | 1,250,000 | |

| Designation | Туре | Capacity (gallons) |
|---------------|----------|-----------------------|
| 250 East | Concrete | 500,000 |
| 250 West | Concrete | 500,000 |
| Highland 500 | Concrete | 3,000,000 |
| Highland 750 | Steel | 4,400,000 |
| Highland 1000 | Steel | 2,200,000 |
| Highland 1285 | Steel | 1,800,000 |
| Highland 1530 | Steel | 2,900,000 |
| | | _ |

Total 29,350,000

Wells

| Name | Capacity (mgd) | Status |
|---------|-------------------|---------------------|
| Well A | 1 <i>.7</i> | Standby (Emergency) |
| Well B* | 2.9 | Standby (Emergency) |

| Name | Capacity (mgd) | Status |
|--------|-------------------|---------------------|
| Well C | 4.6 | Standby (Emergency) |
| Well D | 1.4 | Standby (Emergency) |
| Well E | 3.0 | Standby (Emergency) |

Total 13.6

Interties

| Name | No. | Diameter (in.) |
|--------|-----|-------------------|
| EBMUD* | 2 | 10, 12 |
| ACWD | 2 | 12, 12 |

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

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^{*}Out of service for rehabilitation

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 | 10,869 |
| Number of Accounts | 4,273 |
| Number of SF RWS Connections | 9 Turnouts, 12 meters |
| Connections To SF RWS Mains | Crystal Springs #2, Sunset Pipeline |
| Avg. Day Demand (mgd) | 2.33 |
| Avg. Day Purchases From SF RWS (mgd) | 2.33 |
| % Demand Met With SF RWS Supplies | 100% |
| 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.

| Supply by Source 1 | Actual FY 13-14 (ccf) | Actual FY 14-15 (ccf) | Actual FY 15-16 (ccf) | Actual FY 16-17 (ccf) |
|---------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| San Francisco Water | 1,599,812 | 1,226,777 | 1,050,944 | 1,139,003 |
| Resale SF RWS (CWS) | 0 | 0 | 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 |
| Total | 1,599,812 | 1,226,777 | 1,050,944 | 1,139,003 |
| mgd equivalent | 3.28 | 2.51 | 2.15 | 2.33 |
| Demand by Sector 2 | | | | |

| Residential | 1,459,092 | 1,176,162 | 883,507 | 975,463 |
|-----------------------|-----------|-----------|-----------------|-----------|
| Commercial/Industrial | 0 | 4,826 | 5,637 | 4,567 |
| Institutional/Other | 23,485 | 13,090 | 10,992 | 12,364 |
| Dedicated Irrigation | 22,319 | 23,941 | 1 <i>7</i> ,607 | 16,965 |
| Unaccounted for | 94,916 | 8,758 | 133,201 | 129,644 |
| Total | 1,599,812 | 1,226,777 | 1,050,944 | 1,139,003 |
| mgd equivalent | 3.28 | 2.51 | 2.15 | 2.33 |

| Per Capita Use | | Actual FY 13-14 (gpcpd) | Actual FY 14-15 (gpcpd) | Actual FY 15-16 (gpcpd) | Actual FY 16-17 (gpcpd) |
|----------------|-------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| | Residential | 275 | 222 | 167 | 184 |
| | Gross | 302 | 231 | 198 | 215 |

¹ SFPUC billing is based on monthly meter readings.

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

| orange moon rome | | Capacity |
|---------------------------------------|-------|-----------|
| Designation | Туре | (gallons) |
| Forest View Tank 1 | Steel | 280,000 |
| Forest View Tank 2 | Steel | 675,000 |
| 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 |
| Darrell Tank 1 | Steel | 500,000 |
| Darrell Tank 2 | Steel | 500,000 |
| Darrell Tank 3 | Steel | 1,000,000 |
| · · · · · · · · · · · · · · · · · · · | | |

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

| Designation | Туре | Capacity (gallons) |
|--------------------|-------|-----------------------|
| 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 |
| Total | | 7.917.000 |

Interties

| Name | No. | Diameter (in.) |
|----------------|-----|-------------------|
| 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

Web: http://www.menlopark.org/water

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 | 4,365 | |
| 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 4 via Sharon Park Drive at Lassen; 1 connection to the Palo Alto Pipeline | |
| Avg. Day Demand (mgd) | 2.36 | |
| Avg. Day Purchases From SF RWS (mgd) | 2.36 | |
| % Demand Met With SF RWS Supplies | 100% | |
| 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 all 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 63 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.

Page 9-36 Agency Profiles

| maior soppi) and somana | | | | |
|-------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Supply by Source | Actual FY 13-14 (ccf) | Actual FY 14-15 (ccf) | Actual FY 15-16 (ccf) | Actual FY 16-17 (ccf) |
| San Francisco Water | 1,724,965 | 1,287,136 | 1,074,516 | 1,153,760 |
| Resale SF RWS Purchase | 4,434 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 |
| Total | 1,729,399 | 1,287,136 | 1,074,516 | 1,153,760 |
| mgd equivalent | 3.54 | 2.64 | 2.20 | 2.36 |
| Demand by Sector | | | | |
| Residential | 669,505 | 566,933 | 469,556 | 509,673 |
| Commercial/Industrial | 605,384 | 51 7, 551 | 444,993 | 541,163 |
| Other | 82,272 | 67,003 | 55,167 | 63,640 |
| Dedicated Irrigation | 221,816 | 148,509 | 1,011 | 133,276 |
| Unaccounted for | 150,422 | -12,860 | 103,789 | -93,992 |
| Total | 1,729,399 | 1,287,136 | 1,074,516 | 1,153,760 |
| mgd equivalent | 3.54 | 2.64 | 2.20 | 2.36 |
| Per Capita Use | Actual FY 13-14 (gpcpd) | Actual FY 14-15 (gpcpd) | Actual FY 15-16 (gpcpd) | Actual FY 16-17 (gpcpd) |
| Residential | 85 | 76 | 60 | 65 |
| Gross | 221 | 172 | 137 | 147 |

Facilities and Distribution

Storage Reservoirs

| Designation | Туре | Capacity (mg) |
|-------------|---------|------------------|
| Reservoir 1 | Storage | 2.0 |
| Reservoir 2 | Storage | 3.5 |
| Total | | 5.5 |

Interties

| Name | No. | (in.) |
|------------------|-----|----------|
| 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 | 26,924 |
| Number of Accounts | 8,053 |
| Number of SF RWS Connections | 2 |
| Connections To SF RWS Mains | BDPL 1 and 2, Crystal Springs Bypass Tunnel |
| Avg. Day Demand (mgd) | 2.32 |
| Avg. Day Purchases From SF RWS (mgd) | 2.32 |
| % 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.

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| Supply by Source | Actual FY 13-14 (ccf) | Actual FY 14-15 (ccf) | Actual FY 15-16 (ccf) | Actual FY 16-17 (ccf) |
|---------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| San Francisco Water | 1,408,109 | 1,209,300 | 1,076,654 | 1,134,389 |
| Local Groundwater | 0 | 0 | 0 | 0 |
| Surface Water | 0 | 0 | 0 | 0 |
| Recycled Water | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 |
| Total | 1,408,109 | 1,209,300 | 1,076,654 | 1,134,389 |
| mgd equivalent | 2.89 | 2.48 | 2.21 | 2.32 |

Demand by Sector

| Residential | 993,343 | 834,024 | 732,057 | 769,601 |
|-----------------------|-----------|-----------|-----------|-----------|
| Commercial/Industrial | 258,172 | 234,417 | 219,557 | 222,735 |
| Other | 83,953 | 71,882 | 64,982 | 61,447 |
| Dedicated Irrigation | 0 | 0 | 0 | 1,200 |
| Unaccounted for | 72,641 | 68,977 | 60,058 | 79,406 |
| Total | 1,408,109 | 1,209,300 | 1,076,654 | 1,134,389 |
| mgd equivalent | 2.89 | 2.48 | 2.21 | 2.32 |

| Per Capita Use | Actual FY 13-14 (gpcpd) | Actual FY 14-15 (gpcpd) | Actual FY 15-16 (gpcpd) | Actual FY 16-17 (gpcpd) |
|----------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Residential | 77 | 64 | 56 | 59 |
| Gross | 110 | 93 | 82 | 86 |

Facilities and Distribution

Storage Reservoirs

| o.o.ago nooo.roo | | Capacity |
|------------------|-------|----------|
| Designation | Туре | (mg) |
| Storage Tank 1 | Steel | 2.50 |
| Storage Tank 2 | Steel | 2.50 |
| Storage Tank 3 | Steel | 1.00 |
| Storage Tank 4 | Steel | 1.50 |
| Storage Tank 5 | Steel | 1.00 |
| Storage Tank 6 | Steel | 0.72 |

| Designation | Туре | Capacity (mg) |
|-----------------|-------|------------------|
| Storage Tank 7 | Steel | 0.79 |
| Storage Tank 8 | Steel | 0.79 |
| Storage Tank 9 | Steel | 0.10 |
| Storage Tank 10 | Steel | 0.10 |
| Storage Tank 11 | Steel | 1.50 |
| | | |

Total 12.50

Interties

| Name | No. | Diameter (in.) | Name | |
|--------------|-----|-------------------|----------|--|
| Estero | 1 | 12 | CWS - Se | |
| Redwood City | 1 | 12 | CWS - Se | |

| Name | No. | Diameter (in.) |
|------------------|-----|-------------------|
| CWS - San Carlos | 2 | 8 |
| 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 | 22,848 |
| Number of Accounts | 6,555 |
| Number of SF RWS Connections | 5 |
| Connections To SF RWS Mains | Murchison, Greenhills, Park, 195 ECR, Helen |
| Avg. Day Demand (mgd) | 1.91 |
| Avg. Day Purchases From SF RWS (mgd) | 1.88 |
| % Demand Met With SF RWS Supplies | 99% |
| 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.

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| Waler Joppiy and Demaila | | | | |
|--------------------------|-------------------------------|--------------------------------|-------------------------------|-------------------------------|
| Supply by Source | Actual FY 13-14 (ccf) | Actual FY 14-15 (ccf) | Actual FY 15-16 (ccf) | Actual FY 16-17 (ccf) |
| San Francisco Water | 1,134,741 | 991,049 | 899,785 | 918,695 |
| Local Groundwater | 0 | 0 | 0 | 0 |
| Surface Water | 0 | 0 | 0 | 0 |
| Recycled Water | 12,000 | 12,000 | 0 | 12,000 |
| Other | 0 | 0 | 0 | 0 |
| Total | 1,146,741 | 1,003,049 | 899,785 | 930,695 |
| mgd equivalent | 2.35 | 2.06 | 1.84 | 1.91 |
| Residential | 731,183 | 627,450 | 542,393 | 570,181 |
| Demand by Sector | 721 102 | / 27 / 50 | 5.40.202 | 570 101 |
| Commercial/Industrial | 154,759 | 161,459 | 162,215 | 158,303 |
| Other | 65,130 | 71,796 | 28,293 | 29,353 |
| Dedicated Irrigation | 84,344 | 72,645 | 47,125 | 52,420 |
| Unaccounted for | 111,325 | 69,699 | 119,759 | 120,438 |
| Total | 1,146,741 | 1,003,049 | 899,785 | 930,695 |
| mgd equivalent | 2.35 | 2.06 | 1.84 | 1.91 |
| Per Capita Use | Actual FY 13-14 (gpcpd) | Actual FY 14-15 (gpcpd)) | Actual FY 15-16 (gpcpd) | Actual FY 16-17 (gpcpd) |
| Residential | 70 | 60 | 49 | 51 |

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Facilities and Distribution

Gross (less recycled water)

| Storage | Reservoirs |
|---------|------------|
| 0.0.490 | |

| Designation | Туре | Capacity (mg) |
|----------------|-------|------------------|
| 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 |
| Total | | 2.36 |

Interties

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| Name | No. | Diameter (in.) |
|------------|-----|-------------------|
| Burlingame | 8 | 6, 8, 10, 12 |

81

82

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 | 77,528 |
| Number of Accounts | 16,581 |
| 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) | 8.52 |
| Avg. Day Purchases From SF RWS (mgd) | 4.90 4.54 |
| % Demand Met With SF RWS Supplies | 57% |
| 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.

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| Supply by Source | Actual FY 13-14 (ccf) | Actual FY 14-15 (ccf) | Actual FY 15-16 (ccf) | Actual FY 16-17 (ccf) |
|-----------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| San Francisco Water | 3,194,000 | 2,503,640 | 2,215,396 | 2,391,431 |
| Santa Clara Valley WD | 1,335,500 | 1,548,876 | 1,485,678 | 1,406,074 |
| Recycled Water | 379,000 | 409,507 | 329,206 | 361,682 |
| Other | 0 | 0 | 0 | 0 |
| Total | 4,908,500 | 4,462,023 | 4,030,280 | 4,159,187 |
| mgd equivalent | 9.19 | 9.14 | 8.26 | 8.52 |

Demand by Sector

| Residential | 2,103,513 | 1,943,194 | 1,718,291 | 1,797,145 |
|-----------------------|-----------|-----------|-----------|-----------|
| Commercial/Industrial | 1,166,300 | 1,200,415 | 1,106,090 | 1,036,659 |
| Other | 131,419 | 538,925 | 109,428 | 128,539 |
| Dedicated Irrigation | 558,749 | 581,420 | 637,919 | 730,235 |
| Unaccounted for | 526,843 | 198,069 | 458,552 | 466,609 |
| Total | 4,908,028 | 4,462,023 | 4,030,280 | 4,159,187 |
| mgd equivalent | 9.19 | 9.14 | 8.26 | 8.52 |

| Per Capita Use | Actual FY 13-14 (gpcpd) | Actual FY 14-15 (gpcpd) | Actual FY 15-16 (gpcpd) | Actual FY 16-17 (gpcpd) |
|-----------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Residential | 62 | 56 | 47 | 48 |
| Gross (Less Recycled Water) | 133 | 117 | 100 | 100 |

Facilities and Distribution

Storage Reservoirs

| Designation | Туре | 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 |

Total 16.26

| Wells | |
|-------|--|
|-------|--|

| Name | Capacity (mgd) | Status | |
|-----------|-------------------|--------|--|
| Pinewood* | 1. <i>7</i> | Active | |
| Total | 1.7 | | |

^{*}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 | <i>77</i> ,801 |
| Number of Accounts | 17,987 |
| Number of SF RWS Connections | 3 turnouts/ 9 meters |
| Connections To SF RWS Mains | BDPL 3 and 4 |
| Avg. Day Demand (mgd) | 8.45 |
| Avg. Day Purchases From SF RWS (mgd) | 6.77 |
| % Demand Met With SF RWS Supplies | 84% |
| 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's 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's system distributes water to three pressure zones via 176 miles of main, with inter-zonal connections that allow water to flow from adjacent zones. Mountain View has four water storage facilities.

Mountain View has 3 active wells (4 currently out of service). The wells influence each other, resulting in varied maximum and simultaneous flows. They are not currently operated at their maximum capacity due to various maintenance and operational issues.

| Water | Supp | v and | Demand |
|-------|------|-------|--------|
| | | | |

| Supply by Source | Actual FY 13-14 (ccf) | Actual FY 14-15 (ccf) | Actual FY 15-16 (ccf) | Actual FY 16-17 (ccf) |
|-----------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| San Francisco Water | 4,373,263 | 3,611,194 | 3,305,780 | 3,485,016 |
| Santa Clara Valley WD | 529,137 | 400,146 | 298,782 | 391,915 |
| Local Groundwater | 209,370 | 245,464 | 48,897 | 54,628 |
| Recycled Water | 151,603 | 178,779 | 201,357 | 193,460 |
| Total | 5,263,373 | 4,435,583 | 3,854,816 | 4,125,019 |
| mgd equivalent | 10.79 | 9.09 | 7.90 | 8.45 |

Demand by Sector

| Residential | 2,752,779 | 2,331,572 | 2,082,952 | 2,175,622 |
|-----------------------|-----------|-----------|-----------------|-----------|
| Commercial/Industrial | 901,854 | 836,989 | 783,051 | 755,605 |
| Other | 7,445 | 7,947 | 7,066 | 9,904 |
| Dedicated Irrigation | 1,256,417 | 1,030,128 | <i>75</i> 6,193 | 773,367 |
| Unaccounted for* | 344,878 | 228,947 | 225,554 | 410,521 |
| Total | 5,263,373 | 4,435,583 | 3,854,816 | 4,125,019 |
| mgd equivalent | 10.79 | 9.09 | <i>7</i> .90 | 8.45 |

| Per Capita Use | | Actual FY 13-14 (gpcpd) | Actual FY 14-15 (gpcpd) | Actual FY 15-16 (gpcpd) | Actual FY 16-17 (gpcpd) |
|----------------|-------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| | Residential | 75 | 63 | 57 | 57 |
| | Gross | 139 | 114 | 99 | 104 |

Facilities and Distribution

Storage Reservoirs

| Designation | Туре | Capacity (gallons) | Designation | Туре | Capacity (gallons) |
|-------------|----------|-----------------------|-------------|----------|-----------------------|
| Miramonte | Concrete | 1,000,000 | Whisman | Concrete | 6,000,000 |
| Miramonte | Concrete | 2,300,000 | Graham | Concrete | 8,000,000 |

Total 17,300,000

Wells

| | Capacity | | Capacity | | |
|---------|----------|--------|--------------|-------------|--------|
| Name | (mgd) | Status | Name | (mgd) | Status |
| Well 10 | 1.2 | oos | Well 21 | 1.1 | oos |
| Well 17 | 0.2 | oos | Well 22 | 1.1 | Active |
| Well 19 | 0.7 | Active | Well 23* | 1.3 | Active |
| Well 20 | 1.5 | oos | Total | <i>7</i> .1 | |
| • | | | - | | |

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Interties

| Name | No. | Diameter (in.) |
|-----------|-----|----------------|
| Palo Alto | 3 | 6 |
| Sunnyvale | 4 | 6, 8, 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

| 1101110 | |
|--------------------------------------|---|
| Area Size | 13.6 square miles |
| Service Population | 40,000 |
| Number of Accounts | 12,499 |
| Number of SF RWS Connections | 1 |
| Connections To SF RWS Mains | San Andreas 3 |
| Avg. Day Demand (mgd) | 2.26 |
| Avg. Day Purchases From SF RWS (mgd) | 1.84 |
| % Demand Met With SF RWS Supplies | 99% |
| 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.

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| Supply by Source | Actual FY 13-14 (ccf) | Actual FY 14-15 (ccf) | Actual FY 15-16 (ccf) | Actual FY 16-17 (ccf) |
|--------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| San Francisco Water | 1,387,578 | 1,360,780 | 900,293 | 1,089,419 |
| Westborough CWD (SF RWS) | 0 | 0 | 0 | 0 |
| Recycled Water | 5,294 | 4,120 | 13,788 | 15,787 |
| Other | 0 | 0 | 0 | 0 |
| Total | 1,392,872 | 1,364,900 | 914,081 | 1,105,206 |
| mgd equivalent | 2.85 | 2.80 | 1.87 | 2.26 |

Demand by Sector

| Residential | 1,031,692 | 911,508 | 828,122 | 813,927 |
|-----------------------|-----------|-----------|---------|-----------|
| Commercial/Industrial | 96,158 | 99,795 | 91,672 | 91,672 |
| Other | 82,973 | 62,064 | 47,161 | 56,333 |
| Dedicated Irrigation | 35,833 | 24,484 | 22,785 | 23,205 |
| Unaccounted for | 146,216 | 267,049 | -75,659 | 120,069 |
| Total | 1,380,360 | 1,364,900 | 914,081 | 1,105,206 |
| mgd equivalent | 2.85 | 2.80 | 1.87 | 2.26 |

| Per Capita Use | | Actual FY 13-14 (gpcpd) | Actual FY 14-15 (gpcpd) | Actual FY 15-16 (gpcpd) | Actual FY 16-17 (gpcpd) |
|----------------|-------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| | Residential | 54 | 47 | 42 | 42 |
| | Gross | 73 | 70 | 46 | 56 |

Facilities and Distribution

Potable Storage Reservoirs

| Designation | Capacity (gallons) | |
|---------------|--------------------|--|
| 13 Reservoirs | 23,550,000 | |
| Total | 23.550.000 | |

Water Treatment Facilities:

Surface Water

Recycled Water

| Designation | Capacity (mgd) | Designation | Capacity (mgd) |
|---------------|----------------|------------------|----------------|
| San Pedro WTP | 0.5 | Central District | 0.3 |
| | | | |

Interties

| Name | No. | Diameter (in.) | Name | No. | Diameter (in.) |
|-----------|-----|-------------------|-------------|-----|-------------------|
| San Bruno | 2 | 10 | Westborough | 3 | 8, 10, 10 |
| Daly City | 2 | 6, 8 | _ | | |

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 | 66,930 |
| Number of Accounts | 20,214 |
| Number of SF RWS Connections | 5 |
| Connections To SF RWS Mains | Palo Alto Pipeline, BDPL 3 and 4 |
| Avg. Day Demand (mgd) | 9.57 |
| Avg. Day Purchases From SF RWS (mgd) | 8.98 |
| % Demand Met With SF RWS Supplies | 94% |
| 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

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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 13-14 (ccf) | Actual FY 14-15 (ccf) | Actual FY 15-16 (ccf) | Actual FY 16-17 (ccf) |
|---------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| San Francisco Water | 5,600,519 | 4,723,751 | 4,006,084 | 4,382,560 |
| Local Groundwater | 0 | 0 | 0 | 0 |
| Recycled Water | 381,066 | 367,831 | 350,847 | 289,668 |
| Other | 0 | 0 | 0 | 0 |
| Total | 5,981,585 | 5,091,582 | 4,356,931 | 4,672,228 |
| mgd equivalent | 12.26 | 10.43 | 8.93 | 9.57 |

Demand by Sector

| Residential | 3,146,731 | 2,649,876 | 2,253,313 | 2,444,032 |
|-----------------------|-----------------|-----------|------------------|-----------|
| Commercial/Industrial | 1,023,362 | 998,760 | 954,961 | 980,450 |
| Other | 538,971 | 645,761 | 583,581 | 543,728 |
| Dedicated Irrigation | <i>7</i> 18,281 | 506,450 | 368 <i>,</i> 711 | 416,340 |
| Unaccounted for | 554,240 | 290,735 | 196,365 | 287,678 |
| Total | 5,981,585 | 5,091,582 | 4,356,931 | 4,672,228 |
| mgd equivalent | 12.26 | 10.43 | 8.93 | 9.57 |
| | | | | |

| Per Capita Use | Actual FY 13-14 (gpcpd) | Actual FY 14-15 (gpcpd) | Actual FY 15-16 (gpcpd) | Actual FY 16-17 (gpcpd) |
|-----------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Residential | 97 | 82 | 68 | 75 |
| Gross (Less Recycled Water) | 172 | 146 | 121 | 134 |

Facilities and Distribution

Storage Reservoirs

| Designation | nation Type | |
|--------------|-------------|-----------|
| Mayfield | Concrete | 4,000,000 |
| Boronda | Concrete | 1,500,000 |
| Corte Madera | Steel | 1,500,000 |
| Dahl | Steel | 1,000,000 |

| Designation | Туре | Capacity (gallons) |
|-------------|-------|-----------------------|
| El Camino | Steel | 2,500,000 |
| Montebello | Steel | 1,500,000 |
| Park | Steel | 1,000,000 |
| Total | | 13,000,000 |

Wells

| Name | Capacity (mgd) | Status |
|----------------|-------------------|------------------------|
| 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

| Name | No. | Diameter (in.) |
|--------------------|-----|-------------------|
| East Palo Alto | 1 | 6 |
| Mountain View | 2 | 6, 6 |
| Stanford | 2 | 8, 8 |
| Purissima Hills WD | 2 | 8, 12 |

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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 | 6,150 |
| Number of Accounts | 2,201 |
| Number of SF RWS Connections | 2 |
| Connections To SF RWS Mains | BDPL 3 and 4 |
| Avg. Day Demand (mgd) | 1.31 |
| Avg. Day Purchases From SF RWS (mgd) | 1.31 |
| % 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.

| Supply by Source | Actual FY 13-14 (ccf) | Actual FY 14-15 (ccf) | Actual FY 15-16 (ccf) | Actual FY 16-17 (ccf) |
|---------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| San Francisco Water | 982,100 | 803,313 | 640,369 | 689,261 |
| Recycled Water | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 |
| Total | 982,100 | 803,313 | 640,369 | 689,261 |
| Mgd equivalent | 2.01 | 1.65 | 1.31 | 1.41 |

Demand by Sector

| Residential | 885,184 | 732,811 | 591,604 | 627,686 |
|-----------------------|---------|---------|---------|---------|
| Commercial/Industrial | 0 | 0 | 0 | 0 |
| Other | 59,871 | 44,713 | 24,255 | 37,137 |
| Dedicated Irrigation | 5,339 | 4,305 | 5,061 | 0 |
| Unaccounted for | 31,706 | 21,484 | 19,449 | 24,438 |
| Total | 982,100 | 803,313 | 640,369 | 689,261 |
| Mgd equivalent | 2.01 | 1.65 | 1.31 | 1.41 |

| Per Capita Use | | Actual FY 13-14 (gpcpd) | Actual FY 14-15 (gpcpd) | Actual FY 15-16 (gpcpd) | Actual FY 16-17 (gpcpd) |
|----------------|------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Resider | tial | 295 | 245 | 197 | 209 |
| G | oss | 328 | 268 | 213 | 230 |

Facilities and Distribution

Storage Reservoirs

| Sidiage Reserv | Capacity | |
|----------------|---------------|-----------|
| Designation | Туре | (gallons) |
| MC Tank 1 | Steel | 130,000 |
| MC Tank 2 | Steel | 1,000,000 |
| LC Tank 1 | Steel | 100,000 |
| LC Tank 2 | Cor-ten Steel | 900,000 |
| HH Tank | Concrete | 3,100,000 |
| E Tank | Steel | 500,000 |

| Designation | Туре | Capacity (gallons) |
|-------------|---------------|-----------------------|
| A Tank 1 | Redwood | 200,000 |
| A Tank 2 | Cor-ten Steel | 250,000 |
| N Tank 1 | Cor-ten Steel | 200,000 |
| N Tank 2 | Cor-ten Steel | 3,000,000 |
| PM Tank | Cor-ten Steel | 500,000 |
| Total | | 9,880,000 |

Interties

| Name | No. | (in.) |
|-------------------|-----|--------|
| CWS - Los Altos | 2 | 8, 12 |
| City of Palo Alto | 2 | 12, 12 |

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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/departments/public-works/water

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 | 87,02387,023 | | |
| Number of Accounts | 23,559 | | |
| Number of SF RWS Connections | 13 | | |
| Connections To SF RWS Mains | Bay Crossing 1 and 2, BDPL 1, 2, and 5, BDPL 3 and 4 | | |
| Avg. Day Demand (mgd) | 8.43 | | |
| Avg. Day Purchases From SF RWS (mgd) | 7.83 | | |
| % Demand Met With SF RWS Supplies | 93% | | |
| Maximum Local Water Production (mgd) | 0 | | |
| Alternative Supply Sources | Recycled water for landscape irrigation, industrial, and dual pumped uses | | |
| 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.

| Supply by Source | Actual FY 13-14 (ccf) | Actual FY 14-15 (ccf) | Actual FY 15-16 (ccf) | Actual FY 16-17 (ccf) |
|---------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| San Francisco Water | 4,407,672 | 3,789,370 | 3,508,414 | 3,820,098 |
| Recycled Water | 323,213 | 310,329 | 282,017 | 294,771 |
| Other | 0 | 0 | 0 | 0 |
| Total | 4,730,885 | 4,099,699 | 3,790,431 | 4,114,869 |
| mgd equivalent | 9.70 | 8.40 | 7.77 | 8.43 |

Demand by Sector

| Residential | 2,666,567 | 2,245,955 | 2,245,955 | 2,399,189 |
|-----------------------|-----------|----------------|----------------|-----------|
| Commercial/Industrial | 766,108 | 748,298 | 748,298 | 703,482 |
| Other | 82,618 | <i>7</i> 3,591 | <i>7</i> 3,591 | 72,007 |
| Dedicated Irrigation | 579,350 | 473,004 | 473,004 | 502,184 |
| Unaccounted for | 5,056 | 249,583 | 249,583 | 438,007 |
| Total | 4,099,699 | 3,790,431 | 3,790,431 | 4,114,869 |
| mgd equivalent | 8.40 | 7.77 | 7.77 | 8.43 |

| Per Capita Use | Actual FY 14-15 (gpcpd) | Actual FY 15-16 (gpcpd) | Actual FY 15-16 (gpcpd) | Actual FY 16-17 (gpcpd) |
|-----------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Residential | 63 | 53 | 53 | 57 |
| Gross (Less Recycled Water) | 89 | 83 | 83 | 90 |

Facilities and Distribution

Storage Reservoirs

| Sidiage Reservoirs | Capacity | |
|--------------------|----------|------|
| Designation | Туре | (mg) |
| Easter Cross | Steel | 0.10 |
| Easter Bowl | Steel | 1.20 |
| Glenloch | Steel | 0.09 |
| Wilmington South | Steel | 0.25 |
| Cambridge | Steel | 0.65 |

| Designation | Туре | (mg) |
|----------------|-------|------|
| Lakeview | Steel | 1.00 |
| Main City Zone | Steel | 8.00 |
| Main City Zone | Steel | 3.75 |
| Redwood Shores | Steel | 3.20 |
| Redwood Shores | Steel | 3.00 |

Total 21.24

Interties

| Name | No. | Diameter (in.) |
|---------------------|-----|-------------------|
| BCWD | 1 | 12 |
| BCWD and CWS | 1 | 12 |
| Oakwood / El Camino | 1 | 6 |
| MPW | 1 | 6 |
| Alameda / Edgewood | 1 | Fire Hose |

| Name | No. | Diameter (in.) |
|-----------------------|-----|-------------------|
| Douglas / Fairoaks | 1 | 6 |
| CWS — Bear Gulch | 2 | 6 |
| Bransten / Industrial | 1 | 8 |
| San Carlos | 2 | 6, Fire Hose |
| Eaton | 1 | Fire Hose |

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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

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 | 44,409 | | |
| Number of Accounts | 11,482 | | |
| 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) | 2.93 | | |
| Avg. Day Purchases From SF RWS (mgd) | 1.31 | | |
| % Demand Met With SF RWS Supplies | 27% | | |
| 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.

| Supply by Source | Actual FY 13-14 (ccf) | Actual FY 14-15 (ccf) | Actual FY 15-16 (ccf) | Actual FY 16-17 (ccf) |
|-------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| SF RWS - Customary | <i>77</i> 9,582 | 584,392 | 637,586 | 383,693 |
| SF RWS - Supplemental | 0 | 0 | 83,663 | 895,413 |
| Local Groundwater | 948,253 | 922,147 | 777,032 | 129,317 |
| Surface Water | 0 | 0 | 0 | 0 |
| Recycled Water | 0 | 0 | 0 | 0 |
| Other (North Coast CWD) | 19,88 <i>7</i> | 23,361 | 21,622 | 21,121 |
| Total | 1,747,722 | 1,529,900 | 1,519,903 | 1,429,544 |
| mgd equivalent | 3.58 | 3.14 | 3.11 | 2.93 |

Demand by Sector

| Residential | 1,169,527 | 1,041,912 | 1,022,388 | 974,044 |
|-----------------------|-----------|-----------|------------------|-----------|
| Commercial/Industrial | 325,988 | 304,363 | 285,374 | 55,469 |
| Other | 98,441 | 61,674 | 60,761 | 58,938 |
| Unaccounted for | 153,766 | 121,951 | 1 <i>5</i> 1,380 | 341,093 |
| Total | 1,747,722 | 1,529,900 | 1,519,903 | 1,429,544 |
| mgd equivalent | 3.58 | 3.14 | 3.11 | 2.93 |

| Per Capita Use | Actual FY 13-14 (gpcpd) | | Actual FY 14-15 (gpcpd) | Actual FY 15-16 (gpcpd) | Actual FY 16-17 (gpcpd) |
|----------------|-------------------------------|----|-------------------------------|-------------------------------|-------------------------------|
| R | esidential | 55 | 49 | 47 | 45 |
| | Gross | 82 | 72 | 70 | 66 |

Facilities and Distribution

Storage Reservoirs

| Designation | Туре | Capacity (gallons) |
|-----------------|----------|-----------------------|
| 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 |

Total 8,300,000

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Wells

| Name | Capacity (mgd) | Status |
|-----------|-------------------|--------|
| 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 |

Total 2.52

Interties

| Name | No. | Diameter (in.) |
|-------------|-----|-------------------|
| 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 | 13,733 |
| Number of Accounts | 2,225 |
| Number of SF RWS Connections | 2 |
| Connections To SF RWS Mains | BDPL 3 and 4 |
| Avg. Day Demand (mgd) | 4.77 Potable and Recycled |
| Avg. Day Purchases From SF RWS (mgd) | 4.15 |
| % Demand Met With SF RWS Supplies | 87% |
| 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.

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| Supply by Source | Actual FY 13-14 (ccf) | Actual FY 14-15 (ccf) | Actual FY 15-16 (ccf) | Actual FY 16-17 (ccf) |
|---------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| San Francisco Water | 2,272,262 | 2,151,905 | 1,997,596 | 2,024,785 |
| Local Groundwater | 0 | 16,913 | 29,465 | 0 |
| Recycled Water | 404,401 | 352,857 | 364,746 | 0 |
| Other | 0 | 0 | 0 | 300,817 |
| Total | 2,676,663 | 2,521,675 | 2,391,807 | 2,325,602 |
| mgd equivalent | 5.49 | 5.1 <i>7</i> | 4.90 | 4.77 |

Demand by Sector

| Residential | 686,611 | 1,018,955 | 930,564 | 773,467 |
|-----------------------|-----------|--------------|-----------|-----------|
| Commercial/Industrial | 1,168,458 | 923,177 | 875,508 | 885,644 |
| Other | 56,133 | 40,372 | 38,774 | 35,895 |
| Dedicated Irrigation | 777,405 | 476,737 | 456,091 | 549,254 |
| Unaccounted for | -11,944 | 62,434 | 90,871 | 81,342 |
| Total | 2,676,663 | 2,521,675 | 2,391,807 | 2,325,602 |
| mgd equivalent | 5.49 | 5.1 <i>7</i> | 4.90 | 4.77 |

| Per Capita Use | Actual FY 13-14 (gpcpd) | Actual FY 14-15 (gpcpd) | Actual FY 15-16 (gpcpd) | Actual FY 16-17 (gpcpd) |
|-----------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Residential | 92 | 131 | 211 | 115 |
| Gross (Less Recycled Water) | 305 | 279 | 459 | 302 |

Facilities and Distribution

Storage Reservoirs

| Designation | Туре | Capacity (mg) |
|----------------|-------|---------------|
| Storage Tank 1 | Steel | 3 |
| Storage Tank 2 | Steel | 3 |
| | | |

Total

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 |
| | | | Total | 8.0 | |

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 | 123,752 |
| Number of Accounts | 25,714 |
| Number of SF RWS Connections | 2 |
| Connections To SF RWS Mains | BDPL 3 and 4 |
| Avg. Day Demand (mgd) | 18.73 |
| Avg. Day Purchases From SF RWS (mgd) | 1.99 |
| % Demand Met With SF RWS Supplies | 11% |
| 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 eithe 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 26 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.

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| Supply by Source | Actual FY 13-14 (ccf) | Actual FY 14-15 (ccf) | Actual FY 15-16 (ccf) | Actual FY 16-17 (ccf) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| San Francisco Water | 1,012,567 | 914,572 | 1,135,829 | 970,987 |
| Santa Clara Valley WD | 1,870,035 | 1,470,999 | 1,901,738 | 1,920,855 |
| Local Groundwater | 6,287,164 | 5,816,028 | 4,291,577 | 4,752,405 |
| Recycled Water | 1,587,740 | 1,567,103 | 1,488,319 | 1,497,626 |
| Other | 0 | 0 | 0 | 0 |
| Total | 10,757,506 | 9,768,702 | 8,817,463 | 9,141,873 |
| mgd equivalent | 22.05 | 20.02 | 18.07 | 18.73 |
| Demand by Sector | | | | |
| Residential | 4,730,865 | 4,076,317 | 3,500,320 | 3,452,426 |
| Commercial/Industrial | 4,377,915 | 4,151,499 | 3,876,460 | 3,247,531 |
| Other | 1,156,381 | 1,043,433 | 941,284 | 423,860 |
| Dedicated Irrigation | 0 | 0 | 0 | 0 |
| Unaccounted for | 492,344 | 497,453 | 499,399 | 2,018,056 |
| Total | 10,757,943 | 9,768,702 | 8,817,463 | 9,141,873 |
| mgd equivalent | 22.05 | 20.02 | 18.07 | 18.73 |
| Per Capita Use | Actual FY 13-14 (ccf) | Actual FY 14-15 (ccf) | Actual FY 15-16 (ccf) | Actual FY 16-17 (ccf) |
| Residential | 82 | 67 | 58 | 57 |
| Gross (Less Recycled Water) | 159 | 139 | 124 | 127 |

Facilities and Distribution

Storage Reservoirs

| Designation | Туре | Capacity (mg) |
|------------------|-------|------------------|
| Northside Tank 1 | Steel | 4.7 |
| Northside Tank 2 | Steel | 4.7 |
| Serra | Steel | 13.2 |
| Downtown | Steel | 4.2 |
| Total | | 26.8 |

Wells

| ****** | Cammaitu | | |
|------------|-------------------|--------|--|
| 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 7 | 1. <i>7</i> | 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 |

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Stanford University

327 Bonair Siding

Stanford, California 94305-7272

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

Web: https://suwater.stanford.edu

Service Area

The Stanford Sustainability & Energy Management Department supplies water to the campus area and nearby Stanford unincorporated lands.

System

Profile

| Area Size | 3.1 square miles |
|--|--|
| Service Population | 31,558* |
| 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) | 2.35 |
| Avg. Day Purchases From SF RWS (mgd) | 1.42 |
| % Demand Met With SF RWS Supplies | 61% (100% of domestic water) |
| Average Day Local Water Production (mgd) | 0.93 |
| 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.

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 (irrigation) 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

^{**} In FY-08-09, Stanford completed a recycled water plant that treats wastewater from the former Cogeneration Facility cooling tower blow-down for reuse for toilet and urinal flushing in new buildings. The plant was decommissioned in 2015 with the construction of the Stanford Energy System Innovations (SESI) Central Energy Facility. Source water for the recycled water system was lost but the infrastructure remains and can resume using recycled water once another source is established.

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 13-14 (ccf) | Actual FY 14-15 (ccf) | Actual FY 15-16 (ccf) | Actual FY 16-17 (ccf) |
|---------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| San Francisco Water | 1,024,277 | 923,813 | 679,394 | 695,088 |
| Local Groundwater | 497,660 | 313,982 | 300,686 | 198,507 |
| Surface Water | 31,335 | 158,579 | 93,476 | 254,967 |
| Other | 0 | 0 | 0 | 0 |
| Total | 1,553,272 | 1,396,374 | 1,073,556 | 1,148,562 |
| mgd equivalent | 3.18 | 2.86 | 2.20 | 2.35 |

Note: The sources of water contributing to the non-potable irrigation water system have been tracked through various methods in order to fit within the format of the Annual Survey. Prior to the 2014-2015 Annual Survey, the volume entering storage was subtracted from total surface water diverted and water used from storage. In the 2014-2015 Annual Survey, water added to storage was subtracted from the metered groundwater or surface water source to better account for the source contributing to storage. Prior to the 2015-2016 Annual Survey, all water coming from storage was assumed to be surface water. In order to better reflect the sources of water used in the non-potable irrigation system, beginning in the 2015-2016 Annual Survey the source of stored water is being accounted for by tracking the volume of groundwater that enters and is used from storage. Assumptions for this new method include a starting point of zero groundwater in the non-potable irrigation system storage as of July 2013, surface water entering storage first, and groundwater used from storage first.

Demand by Sector

| Residential | 421,060 | 360,634 | 347,058 | 353,241 |
|-----------------------|------------------|-----------|-----------|------------------|
| Commercial/Industrial | 259,044 | 239,727 | 87,498 | 66,036 |
| Other | 276,377 | 263,966 | 140,481 | 1 <i>57</i> ,835 |
| Dedicated Irrigation | 596, 7 91 | 532,045 | 442,795 | 498,566 |
| Unaccounted for | 0 | 2 | 55,724 | 72,884 |
| Total | 1,553,272 | 1,396,374 | 1,073,556 | 1,148,562 |
| mgd equivalent | 3.18 | 2.86 | 2.20 | 2.35 |

Notes: The new SESI Central Energy Facility uses 70% less water than the former Cogeneration Facility, which caused the commercial/industrial demand to decrease beginning in April 2015.

In 2014-2015 Annual Survey the Multi-Family Residential consumption was under reported due to metering issues at 1 MFR complex.

Due to the differing bill period schedules of SFPUC and Stanford, reporting for the Annual Surveys between 2011 and 2015 included the difference between Production and total Consumption within the customer categories. The difference between Production and Consumption totals includes both the different bill period schedules of SFPUC and Stanford, and actual unaccounted for water. Beginning in the 2015-2016 Annual Survey the full difference is reported in the "Unaccounted for" category.

| Per Capita Use | Actual FY 13-14 (gpcpd) | Actual FY 14-15 (gpcpd) | Actual FY 15-16 (gpcpd) | Actual FY 16-17 (gpcpd) |
|----------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Residential | n/a | n/a | n/a | n/a |
| Gross | 107 | 94 | <i>7</i> 1 | 75 |

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

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Facilities and Distribution

Storage Reservoirs

| Designation | Туре | Capacity (gallons) |
|-------------|------|-----------------------|
| Foothill 1 | | 2,000,000 |
| Foothill 2 | | 6,000,000 |
| San Juan | * | 0 |
| Total | | 8,000,000 |

| Wells | | |
|---------|-------------------|----------|
| Name | Capacity (gpm) | Status |
| Well 1 | 500 | Active |
| Well 2 | 500 | Active |
| Well 3R | 1200 | Active |
| Well 4R | 400 | Inactive |
| Well 5 | 500 | Standby |
| Total | 3100** | |

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

^{*}Currently out of service

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 | 149,831 |
| Number of Accounts | 28,164 |
| Number of SF RWS Connections | 6 |
| Connections To SF RWS Mains | BDPL 3 and 4 |
| Avg. Day Demand (mgd) | 15.87 |
| Avg. Day Purchases From SF RWS (mgd) | 8.33 |
| % Demand Met With SF RWS Supplies | 53% |
| 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.

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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 13-14 (ccf) | Actual FY 14-15 (ccf) | Actual FY 15-16 (ccf) | Actual FY 16-17 (ccf) |
|-----------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| San Francisco Water | 4,046,527 | 3,874,640 | 3,894,246 | 4,066,178 |
| Santa Clara Valley WD | 4,495,704 | 3,276,953 | 2,858,242 | 3,458,667 |
| Local Groundwater | 452,589 | 506,472 | 65,632 | 61,977 |
| Surface Water | 0 | 0 | 0 | 0 |
| Recycled Water | 0 | 137,016 | 390,696 | 157,626 |
| Other | 0 | 0 | 0 | 0 |
| Total | 8,994,820 | <i>7,</i> 795,081 | 7,208,816 | 7,744,448 |
| mgd equivalent | 18.43 | 15.97 | 14.77 | 1 <i>5</i> .8 <i>7</i> |

Demand by Sector

| Residential | 5,729,468 | 4,885,613 | 3,907,240 | 4,135,875 |
|-----------------------|-----------|-------------------|-----------|----------------|
| Commercial/Industrial | 1,859,237 | 1,710,519 | 1,508,808 | 1,576,363 |
| Other | 132,172 | 1,821,591 | 2,221,230 | 371,966 |
| Dedicated Irrigation | 1,705,099 | 857,993 | 629,772 | 1,100,904 |
| Unaccounted for | -431,156 | 229,884 | 450,574 | 559,340 |
| Total | 8,994,820 | <i>7,</i> 795,081 | 7,208,816 | 7,744,448 |
| mgd equivalent | 18.43 | 15.97 | 14.77 | 1 <i>5</i> .87 |

| Per Capita Use | Actual FY 13-14 (gpcpd) | Actual FY 14-15 (gpcpd) | Actual FY 15-16 (gpcpd) | Actual FY 16-17 (gpcpd) |
|-----------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Residential | 80 | 68 | 54 | 57 |
| Gross (Less Recycled Water) | 125 | 106 | 94 | 104 |

Facilities and Distribution

Storage Reservoirs

| Designation | Туре | Capacity (gallons) |
|-----------------|-------|-----------------------|
| Wolfe-Evelyn | Steel | 5,000,000 |
| Mary-Carson 1 | Steel | 5,000,000 |
| Mary-Carson 2 | Steel | 5,000,000 |
| Wright Avenue 1 | Steel | 5,000,000 |
| Wright Avenue 2 | Steel | 5,000,000 |

| Туре | Capacity (gallons) |
|-------|-------------------------|
| Steel | 500,000 |
| | Steel Steel Steel Steel |

Total 27,500,000

Wells

| Name | Capacity (mgd) | Status |
|---------------|-------------------|-----------|
| 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 |

Total 11.1

Interties

| Name | No. | Diameter (in.) |
|---------------|-----|-------------------|
| 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 |
| | | |

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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 | 14,050 |
| Number of Accounts | 3,882 |
| Number of SF RWS Connections | 1 |
| Connections To SF RWS Mains | San Andreas 1, 2, and 3 |
| Avg. Day Demand (mgd) | 0.73 |
| Avg. Day Purchases From SF RWS (mgd) | 0.73 |
| % 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.

| Supply by Source | Actual FY 13-14 (ccf) | Actual FY 14-15 (ccf) | Actual FY 15-16 (ccf) | Actual FY 16-17 (ccf) |
|-----------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| San Francisco Water | 433,980 | 377,034 | 390,753 | 356,722 |
| Local Groundwater | 0 | 0 | 0 | 0 |
| Surface Water | 0 | 0 | 0 | 0 |
| Recycled Water | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 |
| Total | 433,980 | 377,034 | 390,753 | 356,722 |
| mgd equivalent | 0.89 | 0.77 | 0.80 | 0.73 |
| Demand by Sector | 313,148 | 302,544 | 288,276 | 284,986 |
| Commercial/Industrial | 26,092 | 21,572 | 19,729 | 26,058 |
| Other | 0 | 0 | 0 | 0 |
| Dedicated Irrigation | 54,316 | 35,974 | 19,690 | 22,214 |
| Unaccounted for | 40,424 | 16,944 | 63,058 | 23,464 |
| Total | 433,980 | 377,034 | 390,753 | 356,722 |
| mgd equivalent | 0.89 | 0.77 | 0.80 | 0.73 |
| Per Capita Use | Actual FY 13-14 (gpcpd) | Actual FY 14-15 (gpcpd) | Actual FY 15-16 (gpcpd) | Actual FY 16-17 (gpcpd) |

48

67

42

57

47

58

42

52

Facilities and Distribution

Storage Reservoirs

| ororage motor cont | | Capacity |
|--------------------|-------|----------|
| Designation | Type | (mg) |
| SS Tank 1 | Steel | 1.5 |
| SS Tank 2 | Steel | 2.5 |
| SS Tank 3 | Steel | 2.0 |
| CH Reservoir | Steel | 0.5 |
| Total | | 6.5 |

Residential

Gross

Interties

| Name | No. | Diameter (in.) |
|-------------|-----|-------------------|
| North Coast | 1 | 8 |
| Daly City | 1 | 12 |

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