

ANNUAL SURVEY



March
2023

Fiscal Year 2021-22

BAWSCA
Bay Area Water Supply & Conservation Agency

Bay Area Water Supply and Conservation Agency FY 2021-22

- EXECUTIVE SUMMARY
- BAWSCA OVERVIEW
- PAST AND CURRENT PURCHASES FROM SFPUC
- TOTAL WATER SUPPLY AND DEMAND
- CURRENT WATER USE BY CUSTOMER CLASS
- CLIMATOLOGICAL DATA
- SERVICE AREA POPULATIONS
- CURRENT WATER USE PER CAPITA
- CURRENT RESIDENTIAL WATER BILLS
- AGENCY PROFILES

MARCH 2023

BAWSCA WATER FACTS AT-A-GLANCE – FY 2021-22

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	753,119	16
Santa Clara County	117	596,724	8
Alameda County	166	505,446	2
Total	468	1,855,289	26

Supply by Source

	ccf	mgd	af	%
San Francisco RWS	62,515,676	128.11	143,516	66.2%
Groundwater	9,986,643	20.47	22,926	10.6%
Surface Water	1,621,131	3.32	3,722	1.7%
Recycled Water	3,982,647	8.16	9,143	4.2%
Other Sources	16,259,012	33.32	37,325	17.2%
Total	94,365,109	193.38	216,632	100%

Demand by Sector

	ccf	mgd	af	%
Residential	54,315,598	111.31	124,691	57.6%
Commercial/Industrial	19,123,778	39.19	43,902	20.3%
Government/Institutional/Other	4,410,782	9.04	10,126	4.7%
Dedicated Irrigation	9,941,934	20.37	22,824	10.5%
Non-Revenue Water	6,573,017	13.47	15,090	7.0%
Total	94,365,109	193.38	216,632	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

TABLE OF CONTENTS

Executive Summary

About BAWSCA	ES-1
BAWSCA Member Agencies	ES-1
Annual Survey Overview	ES-3
Purchases from SF RWS	ES-3
Total Water Demand and Supply	ES-4
Current Water Use by Class of Customer	ES-7
Climate Data	ES-8
Population and Per Capita Water Use	ES-8
Single Family Water and Rate Structures	ES-9

1. BAWSCA Overview

Goals	1-1
Composition	1-1
Governance	1-2
Organization and Budget	1-2
Organizational Challenges	1-2
BAWSCA Members Summary – FY 2021-22 (Table 1)	1-4

2. Past and Current Purchases from SF RWS

Past and Current Purchases from SF RWS and Relationship to the Supply Guarantee (Table 2A)	2-2
Monthly/Seasonal Purchases from SF RWS Among BAWSCA Members – FY 2021-22 (Table 2B)	2-4
Historical SF RWS Wholesale Water Purchases by BAWUA/BAWSCA Agencies (Table 2C)	2-5
SF RWS In Lieu Water to Participating BAWSCA Agencies (Table 2D)	2-6

3. Total Water Supply and Demand

Historical BAWSCA Water Use by Agency (Table 3A)	3-1
Historical Water Use Among BAWUA/BAWSCA Agencies (Table 3B)	3-2
Water Use by Source of Supply – FY 2021-22 (Table 3C)	3-5
Total Monthly Water Use – FY 2021-22 (Table 3D)	3-6
Demand Projections by Source – Purchases from SFPUC (Table 3E-1)	3-7
Demand Projections by Source – Groundwater Production (Table 3E-2)	3-8
Demand Projections by Source – Surface Water Production (Table 3E-3)	3-8
Demand Projections by Source – Recycled Water (Table 3E-4)	3-9
Demand Projections by Source – Other Sources (Table 3E-5)	3-9
Demand Projections by Source – Summary (Table 3E-6)	3-10

4. Current Water Use by Customer Class

Potable Water Use by Customer Class – FY 2021-22 (Table 4A)	4-3
Total Water Use by Customer Class – FY 2021-22 (Table 4B)	4-4
Number of Customer Accounts – FY 2021-22 (Table 4C)	4-5

5. Climatological Data

Climatological Data (Table 5A)5-1

6. Service Area Populations

BAWSCA Service Area Populations (Table 6)6-1

7. Current Water Use Per Capita

Residential Per Capita Consumption and Single-Family Average Monthly Use Among BAWSCA Members – FY 2021-22 (Table 7A).....7-3

Gross Per Capita Consumption and Single-Family Average Monthly Use Among BAWSCA Members – FY 2021-22 (Table 7B).....7-4

Historical BAWUA/BAWSCA Per Capita Data (Table 7C).....7-5

8. Current Residential Water Bills and Wholesale Water Rates

Single-Family Water Bills Based on Average Monthly Use for FY 2021-22, Using Rates in Effect for FY 2021-22 (Table 8A)8-3

Single Family Water Bills Based on Average Monthly Use for FY 2021-22, Using Rates in Effect for FY 2021-22; Inclusive of Service Charge (Table 8B)8-4

Past and Current SF RWS Wholesale Water Rates and Bond Surcharges for FY 2021-22, Using Rates in Effect for FY 2021-22 (Table 8C)8-7

9. Agency Profiles

Alameda County Water District.....9-3

City of Brisbane / Guadalupe Valley Municipal Improvement District9-6

City of Burlingame.....9-8

California Water Service - Bear Gulch District9-10

California Water Service - Mid-Peninsula District9-13

California Water Service - South San Francisco District9-16

Coastside County Water District.....9-19

City of Daly City9-22

City of East Palo Alto9-26

Estero Municipal Improvement District.....9-28

City of Hayward.....9-30

Town of Hillsborough.....9-33

City of Menlo Park9-36

Mid-Peninsula Water District.....9-38

City of Millbrae.....9-40

City of Milpitas.....9-42

City of Mountain View9-45

North Coast County Water District9-48

City of Palo Alto.....9-50

Purissima Hills Water District9-53

City of Redwood City.....9-55

City of San Bruno.....9-57

San Jose Municipal Water System - North.....9-60

City of Santa Clara.....9-62

Stanford University9-65

City of Sunnyvale.....9-68

Westborough County Water District 9-71

LIST OF CHARTS AND GRAPHS

Past and Current Purchases from SF RWS (Figure 2A)2-1

Monthly/Seasonal Purchases from SF RWS
 by BAWSCA Members – FY 2021-22 (Figure 2B)2-3

Water Use by Source of Supply – FY 2021-22 (Figure 3C)3-3

Total Monthly Water Use for All BAWSCA Agencies – FY 2021-22 (Figure 3D)3-4

Demand Projections by Source – FY 2045-46 (Figure 3E) 3-10

Potable Water Use by Customer Class – FY 2021-22 (Figure 4A)4-1

Total Water Use by Customer Class – FY 2021-22 (Figure 4B)4-1

Potable Water Use by Sector for BAWSCA Agencies – FY 2021-22 (Figure 4C).....4-2

Total Annual Precipitation (Figure 5A)5-2

Average Maximum Daily Temperature (Figure 5B).....5-2

Residential Per Capita Consumption – FY 2021-22 (Figure 7A-1).....7-1

Residential Per Capita Consumption Distributed
 by Percentage of Population – FY 2021-22 (Figure 7A-2)7-1

Gross Per Capita Consumption – FY 2021-22 (Figure 7B).....7-2

Historical BAWSCA/BAWUA Per Capita Consumption – 1975-76 to Present (Figure 7C)7-2

Single Family Water Bills Based on Average Monthly Use
 Using Rates in Effect for FY 2021-22 (Figure 8A)8-1

Past and Current SF RWS Wholesale Water Rates and
 BAWSCA Bond Surcharges (Figure 8A)8-2

Annual Survey

FISCAL YEAR 2021-22

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 company 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 a united 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 754,000 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 (GVMD), 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 596,000 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 505,000 within a service area of approximately 166 square miles. BAWSCA member agencies that serve Alameda County include Alameda County Water District and the City of Hayward.

BAWSCA Members Map



Legend

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

Sources: BAWSCA, San Mateo County General Plan

ANNUAL SURVEY OVERVIEW

Since 1996, BAWSCA and its predecessor organization, the Bay Area Water Users Association, has conducted an annual survey of its member agencies 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:

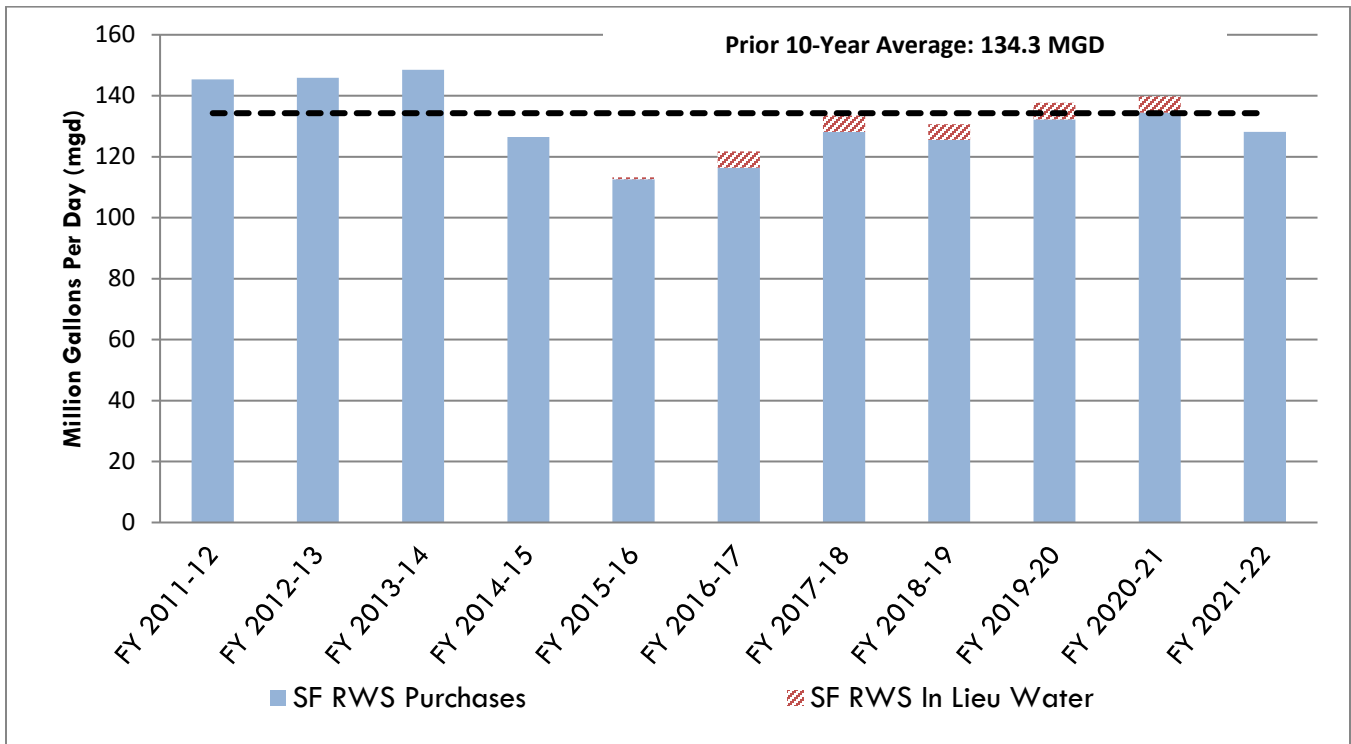
- Current water supply from each source
- Current and projected water purchases from SF RWS
- Projected water supplies and demands
- Consumption by customer class
- Current and projected population
- Per capita water use
- Single family water bills and rate structures
- BAWSCA member agency profiles

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 2021-22, the BAWSCA member agencies reported SF RWS purchases of 128.11 mgd, 5% lower than the total of 134.45 mgd purchased in FY 2020-21. BAWSCA member agencies reported no In Lieu Water deliveries in FY 2021-22 due to dry conditions. Compared with the prior ten-year average, total purchases in FY 2021-22 were below average by 6.16 mgd. When compared to FY 2013-14, the highest year in the prior ten-year period, FY 2021-22 purchases were lower by 20.4 mgd, a difference of about 16%.

Figure ES-1: Past and Current SF RWS Purchases, Including In lieu Water (if applicable)



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. In June 2021, BAWSCA notified the SFPUC that the projected BAWSCA member agency purchases in FY 2035-36 are projected to be about 155 mgd. In FY 2045-46, BAWSCA member agency purchases from the SF RWS are projected to reach 171 mgd.

TOTAL WATER SUPPLY AND DEMAND

Current Water Supply by Source

The sources of supply used by BAWSCA member agencies are very consistent, with supply breakdown by source typically varying by less than 2% from one year to the next. Of the total amount of water used by BAWSCA agencies in FY 2021-22, 66.2% came from the SF RWS and 33.8% came from other sources. These other sources included:

- Groundwater (20.47 mgd, 10.6%);
- Local surface water, primarily from ACWD’s take from Lake Del Valle (3.32 mgd, 1.7%);
- Other supplies from the Santa Clara Valley Water District, the State Water Project, and ACWD’s brackish water desalination (33.32 mgd, 17.2%); and
- Recycled water (8.16 mgd, 4.2%).

Figure ES-2: FY 2021-22 Water Use by Source

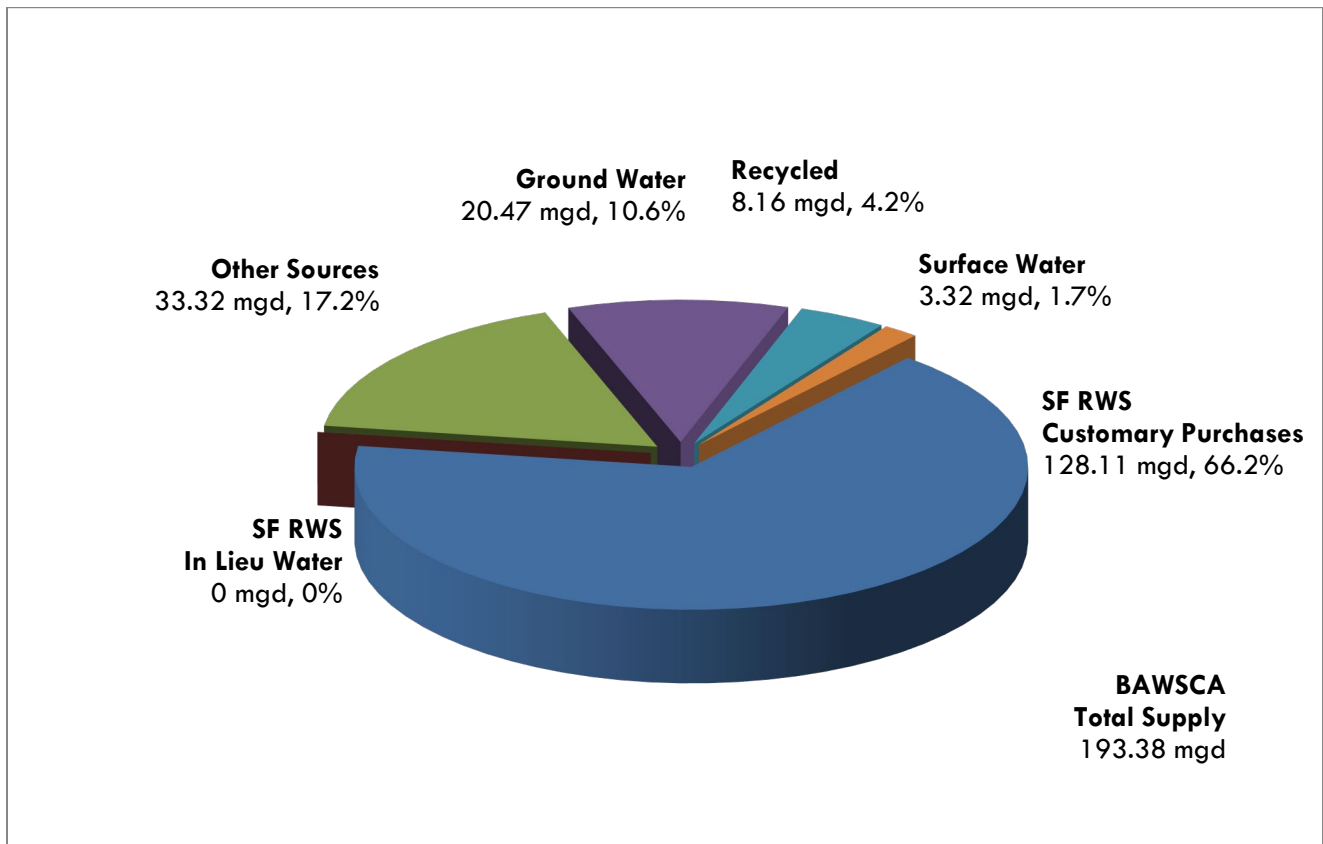
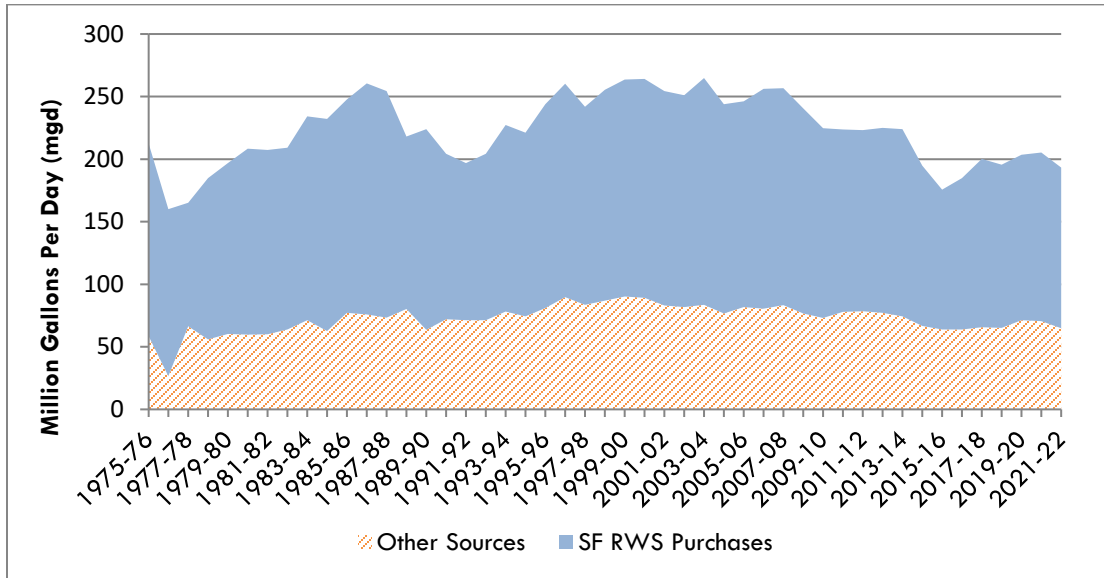


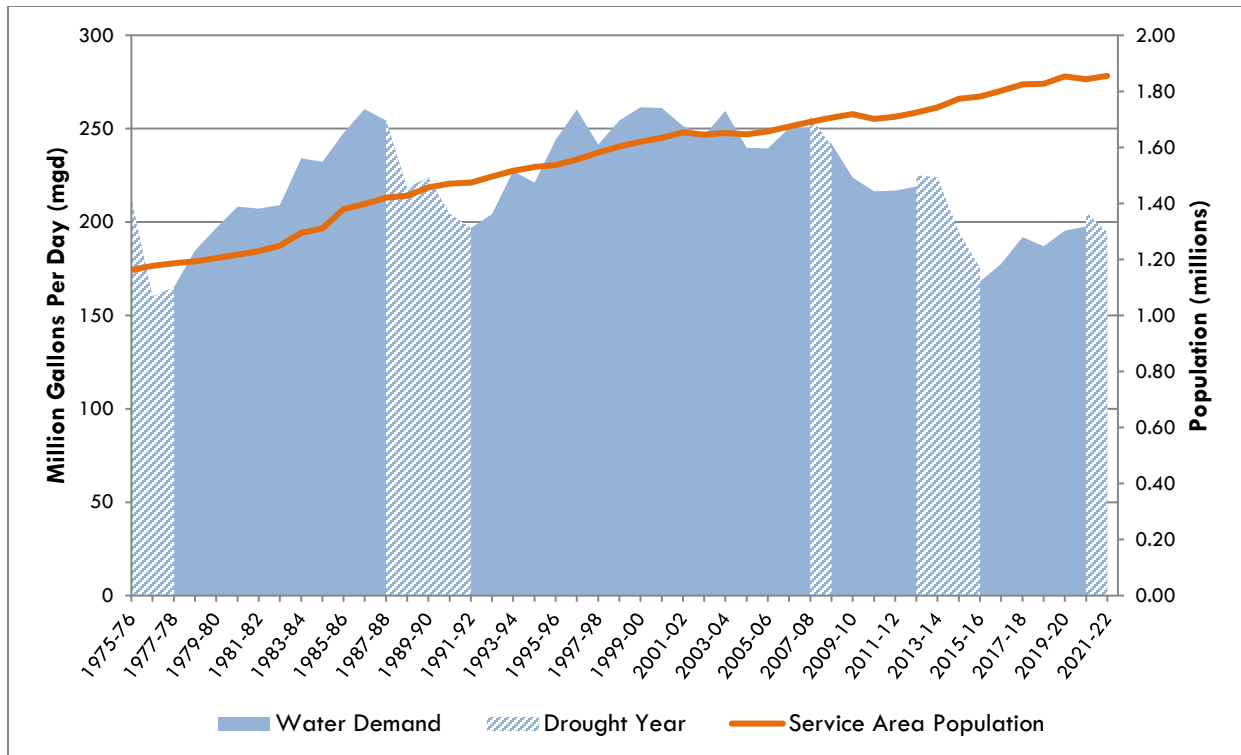
Figure ES-3: Past and Current Water Supply



Current BAWSCA-Wide Total Water Demand

For FY 2021-22, total water demand in the BAWSCA service area, including SFPUC purchases and other sources, was 193.38 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 most recent statewide drought declaration, water used in the BAWSCA service area was 16% less in FY 2021-22. In FY 2021-22, 26% less water was used in the service area compared to the peak year, FY 1986-87, despite a 33% 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 265.40 mgd by FY 2045-46 (Source: BAWSCA FY 2021-22 Annual Survey). Of the total water demand, 2.84 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 170.62 mgd in FY 2045-46. Recycled water supplies are projected to increase to 17.02 mgd by FY 2045-46.

Figure ES-5: Projected FY 2045-46 Water Use by Source

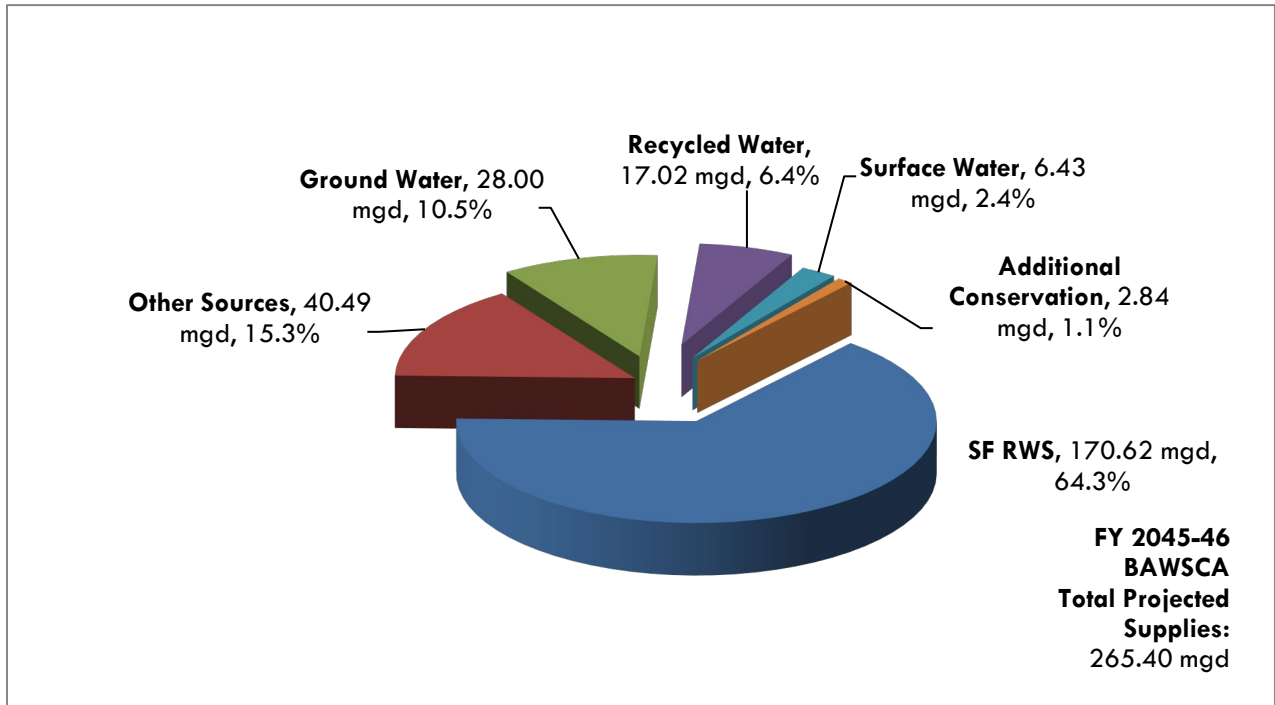
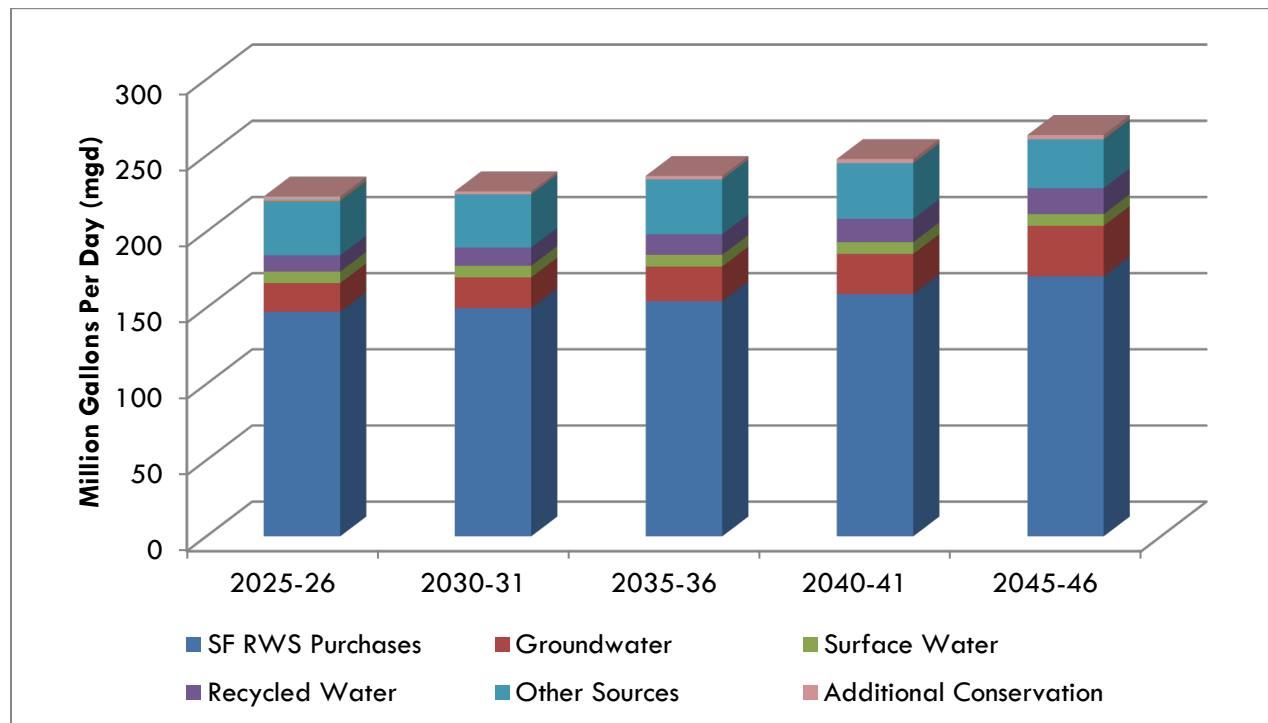


Figure ES-6: Projected Normal Year Water Supplies by Source



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.

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.

Tier 2 Plan

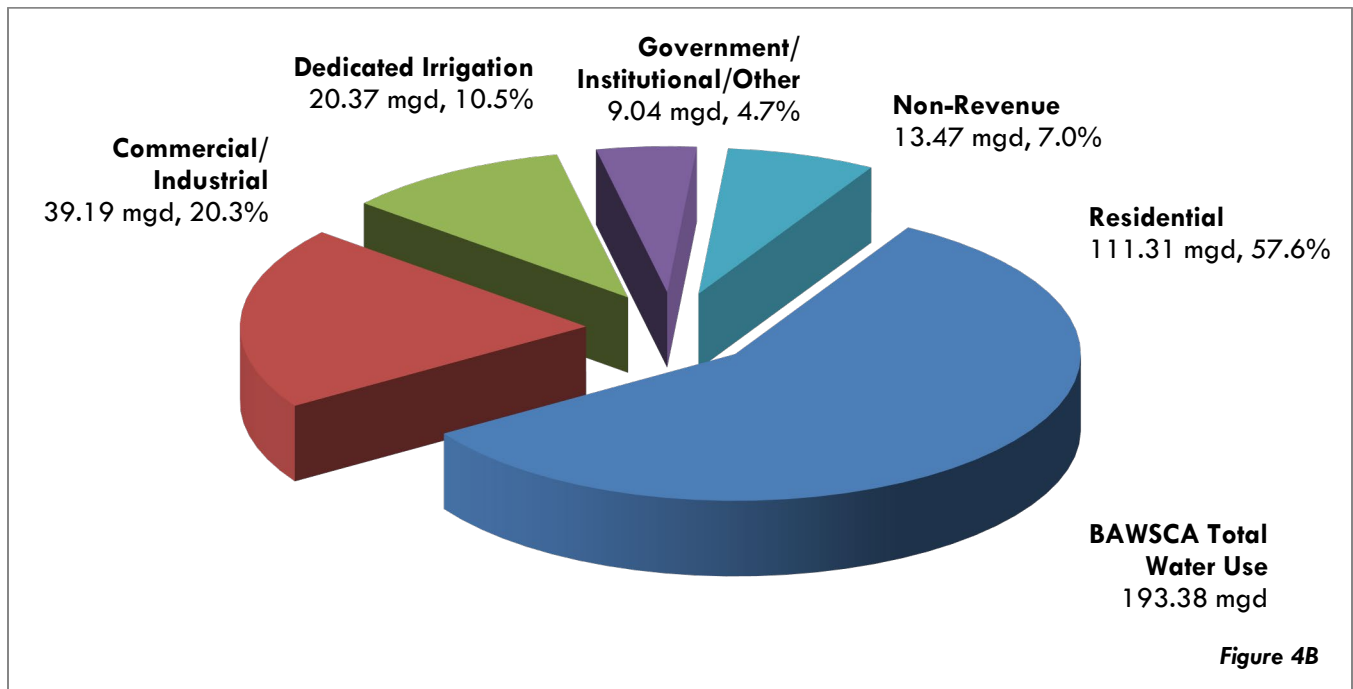
Shortages on the Regional Water System are governed by two plans. The Tier 1 Plan apportions water between the San Francisco retail customers and Wholesale Customers collectively. The Tier 2 Plan is the methodology for allocating water among the Wholesale Customers. The Tier 1 and Tier 2 Plan apply to shortages on the Regional Water System of no greater than 20%. The existing Tier 2 Plan was adopted in 2011 and implemented for the first time in 2021. The Plan expired in 2018 but has been extended by one year, each year by the BAWSCA Board of Directors. Negotiations to update the Tier 2 Plan began in January 2022 and will be ongoing at least through FY 22-23.

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 194.60 mgd consumed among BAWSCA agencies in FY 2021-22 the residential sector accounted for 57.2% (111.31 mgd); commercial and industrial customers for 20.1% (39.19 mgd); government, institutional and other customers for 4.7% (9.06 mgd); dedicated irrigation for 10.5% (20.37 mgd); and non-revenue water for 7.5% (14.67 mgd).

In FY 2021-22, there were 438,387 accounts (service connections) in the entire BAWSCA service area, 89%, or 389,098, of which were residential.

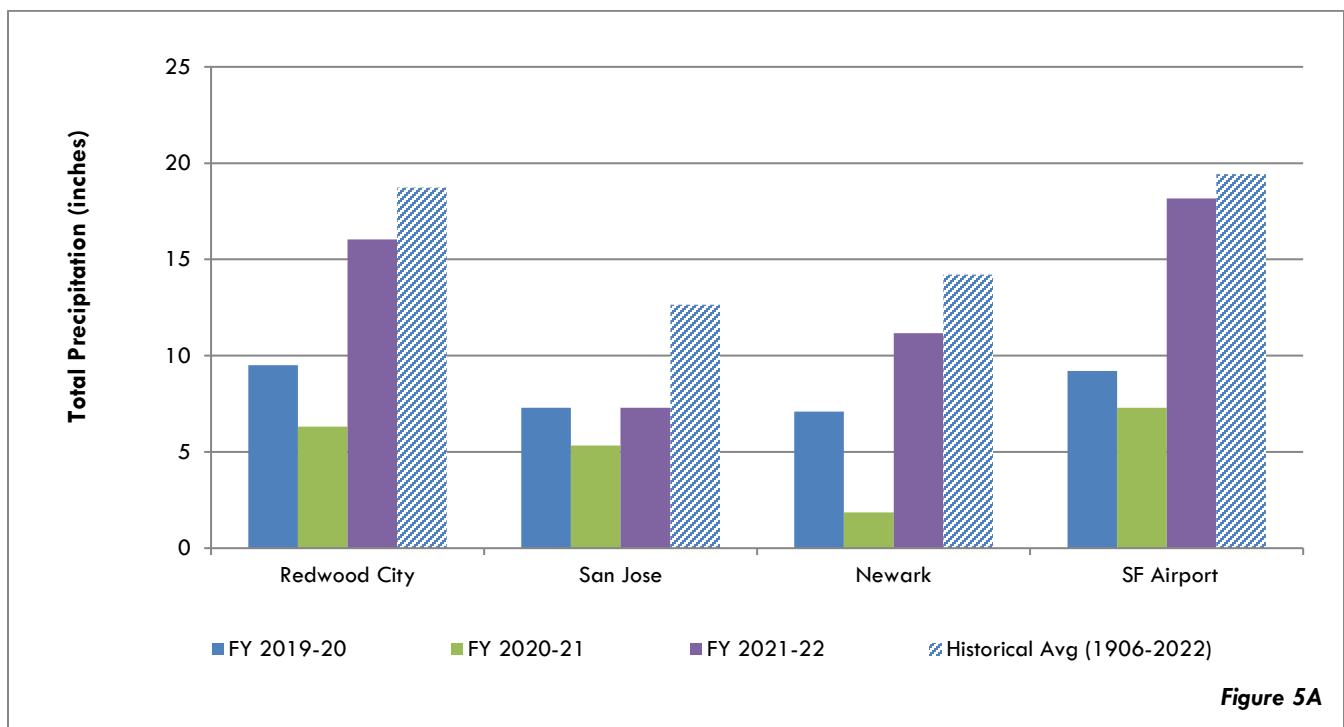
Figure ES-7: FY 2021-22 Water Use by Customer Class



CLIMATE DATA

FY 2021-22 was a dry year, with rainfall totals recorded at 4 representative locations in the BAWSCA service area that were, on average, 19% lower than the historical average from 1906 - 2022. In FY 2019-20 and FY 2020-21, rainfall totals recorded at these locations were 49% above average and 68% below average, respectively.

Figure ES-8: Historic and Current Precipitation Levels



POPULATION AND PER CAPITA WATER USE

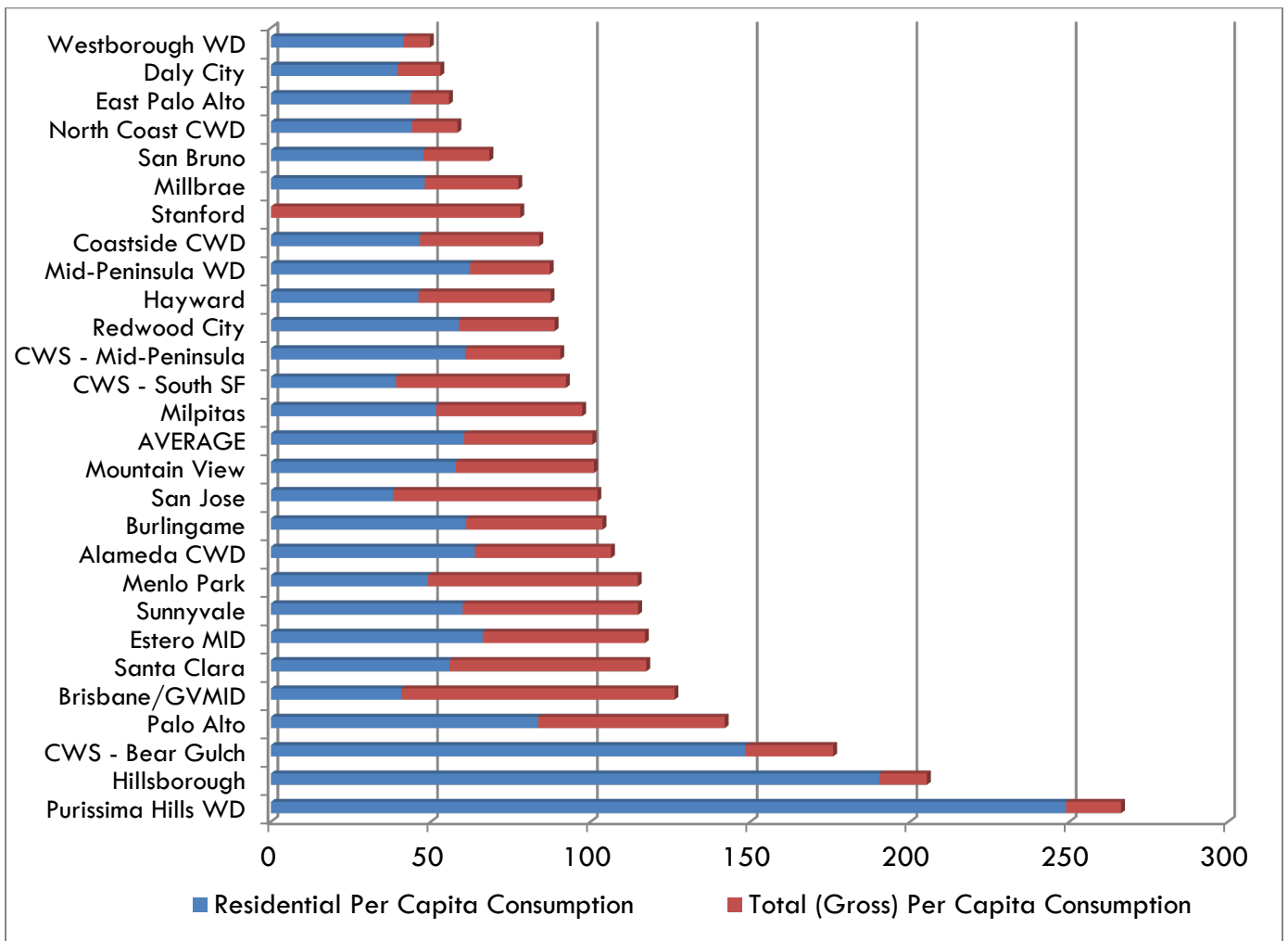
The population of the BAWSCA service area is estimated to have increased from 1,842,939 to 1,855,289 between FY 2020-21 and FY 2021-22. The BAWSCA service area population is projected to reach 2,419,955 by FY 2045-46.

Average residential per capita consumption (excluding Stanford) in the BAWSCA service area was 60.27 gpcd in FY 2021-22, 5% less than the year before. This is 48% less than the estimated peak residential per capita consumption of 114.9 gpcd in FY 1975-76. In FY 2021-22, City of San Jose had the lowest residential per capita consumption at 38.16 gpcd while Purissima Hills WD had the highest at 248.9 gpcd.

In FY 2021-22, sixteen BAWSCA member agencies had residential water use of less than 60 gallons per capita per day.

The average gross per capita consumption in the BAWSCA service area was 99.8 gpcd in FY 2021-22, 7% lower than FY 2020-21. 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



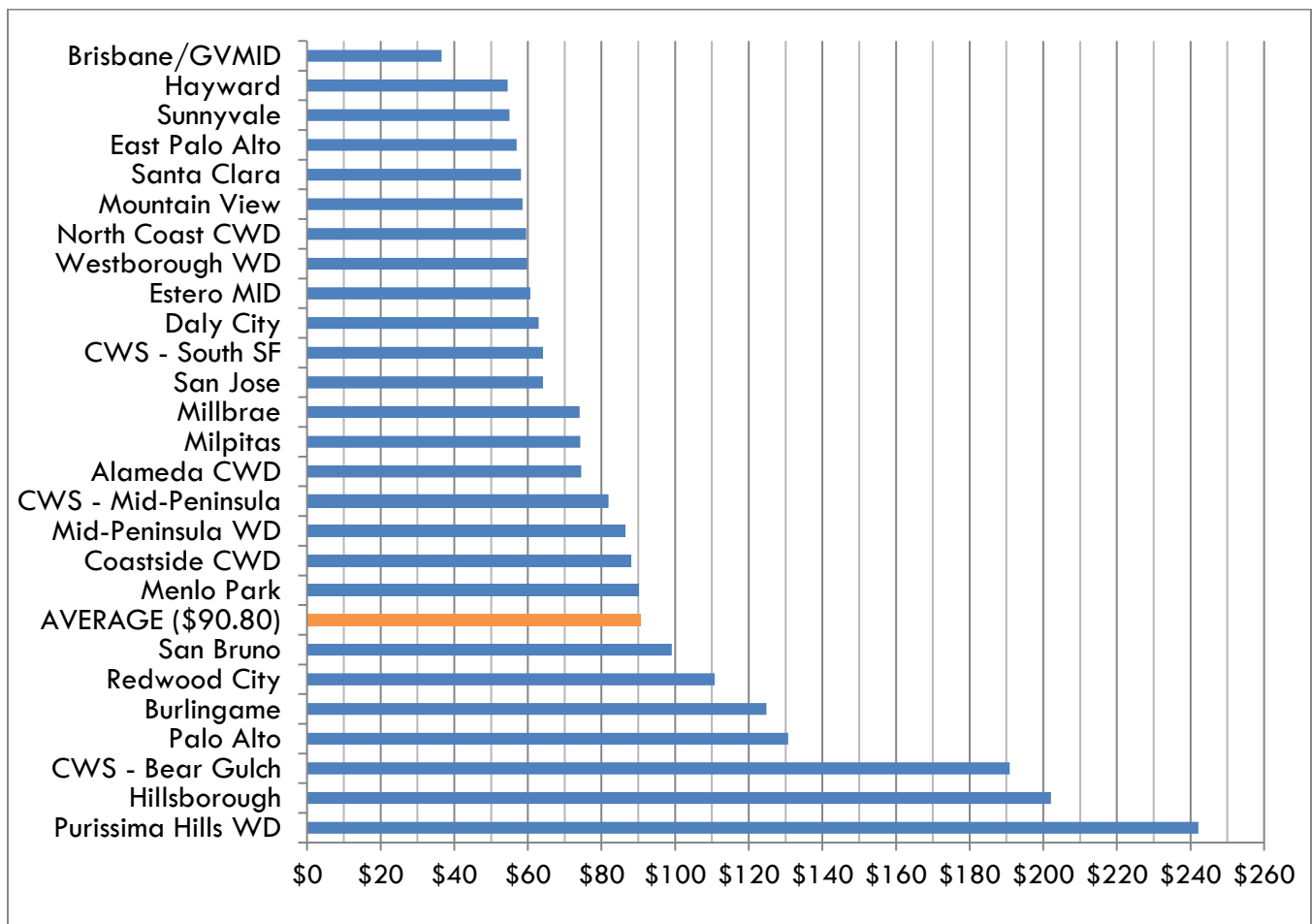
Due to its unique service area, residential per capita consumption for Stanford University is excluded.

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 \$36.53 for 4.4 units in the Brisbane/GVMID service area to a high of \$242.17 for 29.7 units in Purissima Hills WD. The average single-family water bill among the BAWSCA member agencies, inclusive of the service charge, was \$90.80.

Seven BAWSCA member agencies (Alameda County Water District, East Palo Alto, Millbrae, Milpitas, San Jose, Santa Clara, and Westborough Water District) had a uniform rate structure in FY 2021-20, 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
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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, 1 university, and 1 private water company 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 (AB 1823) 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 4,851 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 345,000 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, 66% of all water delivered by the BAWSCA member agencies came from the SF RWS in FY 2021-22.

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 57% of total potable demand in FY 2021-22.

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 2021-22, residential per capita water use was lower than the prior year mainly due to persistent drought conditions. Per capita use in the wholesale service area ranged from a low of 38 gallons per capita per day (gpcd) to a high of 249 gpcd. Average residential use is 60 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 eight. A standing Board Policy Committee, comprised of board members, advises the CEO and the full board on policy matters. The agency's FY 2021-22 budget was \$4.78M, funded through individual agency assessments. In addition, BAWSCA plans and administers water conservation programs throughout the region funded by the agencies that choose to participate.

Organizational Challenges

BAWSCA's strategic challenges include:

- Developing and implementing the Long-Term Reliable Water Supply Strategy to ensure that water supply needs for the BAWSCA members will be adequately met in times of drought and in the future.

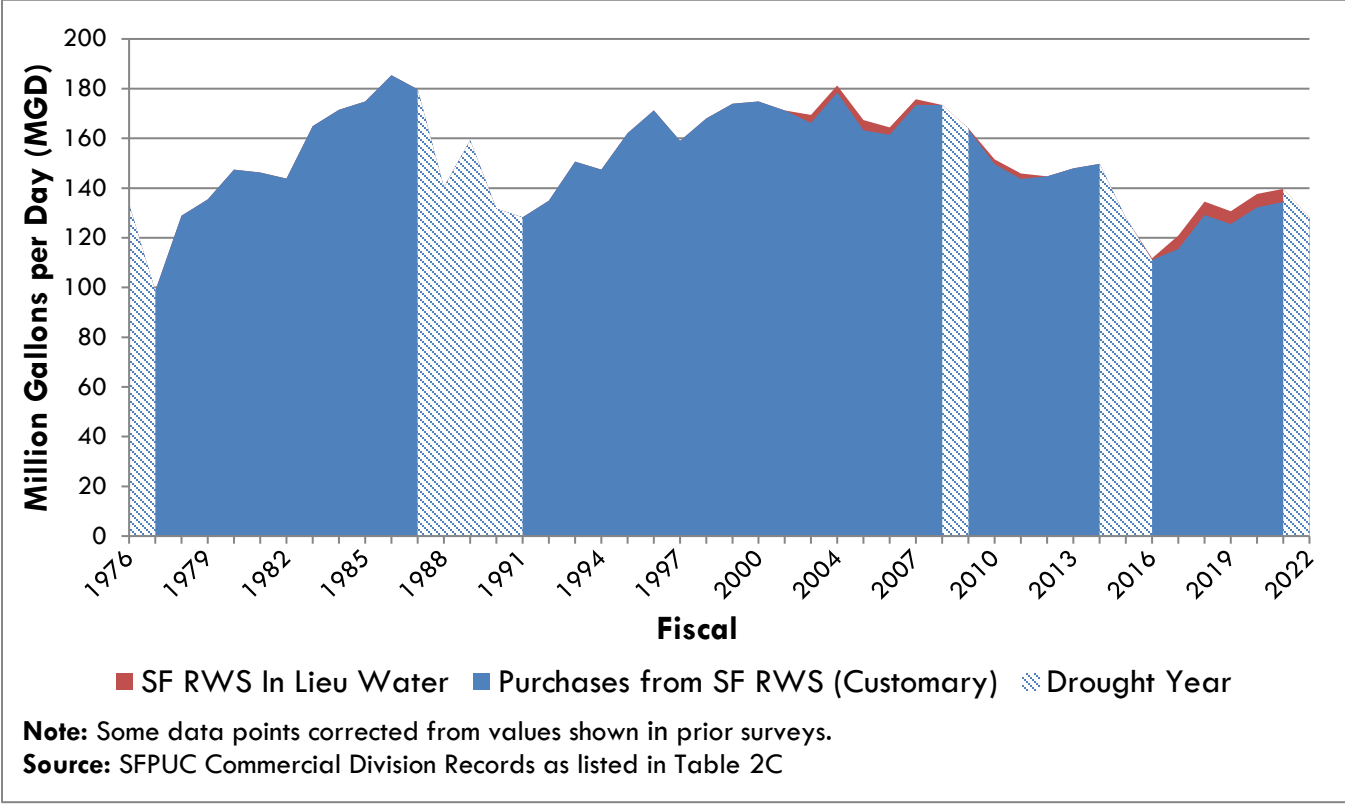
- Monitoring the SFPUC to ensure it completes its capital improvement program for rebuilding the regional water system promptly and cost-effectively with the cost fairly allocated between San Francisco retail and BAWSCA member agencies.
- Administering the 2009 water supply agreement between San Francisco 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.

Table 1: BAWSCA Members Summary – FY 2021-22

	Service Population	Water Purchased / Produced (mgd)		Communities Served (all or portions of)
		SF RWS*	Total	
San Mateo County				
City of Brisbane / Guadalupe Valley Municipal Improvement District	4,851	0.61	0.61	Brisbane, nearby unincorporated areas, and GVMID, an industrial park and small residential community within the City of Brisbane
City of Burlingame	32,407	3.36	3.46	City of Burlingame, and nearby unincorporated areas
California Water Service Company	262,095	28.81	29.04	Atherton, Colma, Daly City, Los Altos, Menlo Park, Portola Valley, parts of unincorporated Redwood City, San Carlos, San Mateo, South San Francisco, Woodside and nearby unincorporated areas
CalWater-BG	60,903	10.48	10.71	
CalWater-MP	137,490	12.45	12.45	
CalWater-SSF	63,702	5.88	5.88	
Coastside County Water District	18,839	0.96	1.58	Half Moon Bay and nearby unincorporated areas
City of Daly City	107,197	3.64	6.31	Daly City and nearby unincorporated areas
City of East Palo Alto	25,935	1.43	1.44	City of East Palo Alto, Menlo Park, and nearby unincorporated areas
Estero Municipal Improvement District	33,056	3.87	3.87	Foster City and small parts of San Mateo
Town of Hillsborough	11,397	2.34	2.34	Hillsborough and nearby unincorporated areas
City of Menlo Park	21,340	2.45	2.45	Menlo Park west of Altschul Avenue and east of El Camino Real. Portions of Redwood City & Town of Portola Valley
Mid-Peninsula Water District	29,260	2.40	2.40	Belmont, a portion of San Carlos, and nearby unincorporated areas
City of Millbrae	22,277	1.85	1.85	Millbrae and nearby unincorporated areas
North Coast County Water District	37,533	2.19	2.22	Pacifica and nearby unincorporated areas
City of Redwood City	89,037	7.90	8.54	Redwood City, parts of San Carlos and Woodside, and nearby unincorporated areas
City of San Bruno	44,409	1.04	3.03	San Bruno and nearby unincorporated areas
Westborough Water District	13,486	0.62	0.67	South San Francisco
Subtotal	753,119	63.47	69.83	
Santa Clara County				
City of Milpitas	80,839	4.61	8.74	Milpitas
City of Mountain View	81,764	7.34	8.65	Mountain View and nearby unincorporated areas
City of Palo Alto	67,973	9.65	10.63	Palo Alto and nearby unincorporated areas
Purissima Hills Water District	6,150	1.64	1.64	Los Altos Hills and unincorporated areas
San Jose Municipal Water District	40,514	4.11	5.09	North San Jose/Alviso and nearby unincorporated areas
City of Santa Clara	130,746	3.11	18.64	Santa Clara and nearby unincorporated areas
Stanford University	32,235	1.46	2.52	Stanford University
City of Sunnyvale	156,503	9.20	16.90	Sunnyvale and nearby unincorporated areas
Subtotal	596,724	41.12	72.79	
Alameda County				
Alameda County Water District	344,855	9.48	36.70	Union City, Newark, Fremont and nearby unincorporated areas
City of Hayward	160,591	14.05	14.07	Hayward and nearby unincorporated areas
Subtotal	505,446	23.53	50.76	
Total All Agencies	1,855,289	128.1	193.38	
*Includes SF RWS In Lieu Water (if applicable)				
Source: BAWSCA FY 2021-22 Annual Survey				

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 In Lieu Water)**

Member	Supply Guarantee	mgd Equiv	Predrought FY 1986-87	mgd Equiv	Actual FY 2011-12	Actual FY 2012-13	Actual FY 2013-14	Actual FY 2014-15	Actual FY 2015-16	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Actual FY 2019-20	Actual FY 2020-21	Actual FY 2021-22	mgd Equiv	2021-22/2020-21	2021-22 Purchases as % of Guarantee
																	% Change	
San Mateo County																		
* Brisbane **	224,435	0.46	171,507	0.35	280,650	287,290	302,776	280,029	257,414	294,756	334,217	323,917	310,127	303,604	298,906	0.61	-1.5	62.4
* Burlingame	2,553,753	5.23	2,531,707	5.19	2,012,282	1,952,965	2,001,619	1,791,539	1,505,779	1,592,044	1,695,956	1,669,182	1,696,711	1,604,743	1,640,372	3.36	2.2	36.1
California Water Service *	17,320,807	35.50	17,393,987	35.65	16,101,764	15,212,752	16,361,264	13,839,271	11,584,178	11,851,282	13,457,975	12,894,379	14,150,396	14,394,881	14,056,876	28.81	-2.3	81.2
Coastside CWD	1,061,453	2.18	600,257	1.23	832,099	885,896	940,214	727,298	575,225	515,655	464,037	547,861	496,627	705,680	468,075	0.96	-33.7	14.5
Daly City	2,094,386	4.29	2,264,684	4.64	1,811,358	1,955,442	1,713,514	1,654,762	2,152,800	1,867,312	1,717,837	1,804,183	1,939,670	1,722,950	1,776,082	3.64	3.1	44.5
* East Palo Alto	1,689,714	3.46	1,041,989	2.14	907,662	1,008,253	723,320	768,310	690,728	734,911	772,528	763,315	764,033	743,205	699,368	1.43	-5.9	21.7
* Estero MID	2,878,807	5.90	2,854,051	5.85	1,966,984	2,000,497	1,942,333	1,930,526	1,768,029	1,874,751	2,068,753	1,969,663	2,115,607	2,101,104	1,887,409	3.87	-10.2	39.7
* Guadalupe Valley MID	254,436	0.52	155,074	0.32	Included with Brisbane													
* Hillsborough	1,995,644	4.09	1,996,150	4.09	1,580,857	1,609,532	1,599,812	1,226,777	1,050,944	1,139,003	1,234,547	1,124,778	1,280,605	1,314,680	1,141,504	2.34	-13.2	57.2
Los Trancos			34,848	0.07														
* Menlo Park	2,174,231	4.46	1,958,458	4.01	1,621,745	1,584,636	1,724,965	1,287,136	1,074,516	1,153,760	1,393,425	1,383,605	1,442,176	1,379,039	1,195,123	2.45	-13.3	55.0
* Mid-Peninsula WD	1,898,707	3.89	1,888,074	3.87	1,437,360	1,453,047	1,408,109	1,209,300	1,076,654	1,134,389	1,221,454	1,220,573	1,295,922	1,273,998	1,172,923	2.40	-7.9	61.8
* Millbrae	1,538,120	3.15	1,528,426	3.13	1,034,254	1,113,147	1,134,741	991,049	899,785	918,695	992,853	949,277	927,939	906,122	900,514	1.85	-0.6	58.5
* North Coast CWD	1,872,928	3.84	1,618,649	3.32	1,380,360	1,192,485	1,387,578	1,360,780	900,293	1,089,419	1,169,151	1,119,762	1,157,526	1,172,219	1,068,893	2.19	-8.8	57.1
* Redwood City	5,333,115	10.93	5,253,772	10.77	4,420,594	4,747,255	4,407,672	3,789,370	3,508,414	3,820,098	4,130,668	3,943,761	4,276,459	4,137,728	3,855,958	7.90	-6.8	72.3
San Bruno	1,583,899	3.25	1,748,600	3.58	1,017,925	946,503	779,582	584,392	637,586	383,693	419,589	420,116	465,406	444,989	507,220	1.04	14.0	32.0
Skyline			62,726	0.13														
* Westborough WD	644,172	1.32	585,151	1.20	440,796	441,233	433,980	377,034	390,753	356,722	383,996	379,833	400,616	373,994	301,090	0.62	-19.5	46.7
Subtotal	45,118,607	92.46	43,688,110	89.53	36,846,690	36,390,933	36,861,479	31,817,573	28,073,098	28,726,490	31,456,987	30,514,206	32,719,820	32,578,936	30,970,313	63.47	-4.9	68.6
Santa Clara County																		
Milpitas	4,504,533	9.23	4,370,757	8.96	3,060,055	3,115,000	3,194,000	2,503,640	2,215,396	2,391,431	2,538,687	2,585,031	2,886,833	2,647,856	2,251,779	4.61	-15.0	50.0
Mountain View	6,079,714	12.46	6,435,554	13.19	4,346,523	4,389,474	4,373,263	3,611,194	3,305,780	3,485,016	3,617,700	3,519,587	3,740,804	3,855,612	3,581,200	7.34	-7.1	58.9
* Palo Alto	8,087,730	16.57	8,009,767	16.41	5,561,559	5,547,735	5,600,519	4,723,751	4,006,084	4,382,560	4,859,576	4,600,990	4,757,199	4,953,805	4,709,184	9.65	-4.9	58.2
* Purisima Hills	792,832	1.62	755,077	1.55	899,221	972,733	982,100	803,313	640,369	689,261	814,270	770,703	851,999	925,721	799,210	1.64	-13.7	100.8
San Jose	0	0.00	1,541,153	3.16	2,172,405	2,173,663	2,272,262	2,151,905	1,997,596	2,024,785	2,208,892	2,084,721	2,077,874	2,039,631	2,004,207	4.11	-1.7	n/a
Santa Clara	0	0.00	2,429,766	4.98	910,029	1,118,315	1,012,567	914,572	1,135,829	970,987	1,039,840	1,474,198	1,596,791	1,576,338	1,515,536	3.11	-3.9	n/a
Stanford	1,479,764	3.03	1,485,396	3.04	1,051,794	1,024,012	1,024,277	923,813	679,394	695,088	725,276	697,159	699,352	659,830	714,224	1.46	8.2	48.3
Sunnyvale	6,138,122	12.58	7,228,076	14.81	4,436,721	4,526,510	4,046,527	3,874,640	3,894,246	4,066,178	4,435,240	4,394,289	4,552,465	4,686,275	4,490,366	9.20	-4.2	73.2
Subtotal	27,082,695	55.50	32,255,546	66.10	22,438,307	22,867,442	22,505,515	19,506,828	17,874,694	18,705,306	20,239,481	20,126,678	21,163,317	21,345,068	20,065,706	41.12	-6.0	74.1
Alameda County																		
Alameda CWD	6,714,439	13.76	6,039,273	12.38	4,052,940	4,371,390	5,684,760	3,770,320	3,037,166	3,081,217	3,716,845	3,798,529	3,840,640	4,585,161	4,625,134	9.48	0.9	68.9
* Hayward 1	6,821,848	13.98	8,504,158	17.43	7,610,980	7,552,956	7,402,067	6,634,616	5,979,616	6,281,522	7,101,954	6,821,848	6,794,224	7,098,330	6,854,523	14.05	-3.4	100.5
Residual 1	4,048,507	8.30																
Subtotal	17,584,794	36.04	14,543,431	29.80	11,663,920	11,924,346	13,086,827	10,404,936	9,016,782	9,362,739	10,818,799	10,620,377	10,634,864	11,683,491	11,479,657	23.53	-1.7	65.3
Total	89,786,096	184.00	90,487,087	185.44	70,948,917	71,182,721	72,453,821	61,729,337	54,964,574	56,794,535	62,515,266	61,261,261	64,518,001	65,607,495	62,515,676	128.11	-4.7	69.6
mgd equiv	184.00		185.44		145.40	145.88	148.48	126.50	112.64	116.39	128.11	125.54	132.22	134.45	128.11		-4.7	
Total w/o SC&SJ	89,786,096		86,516,168		67,866,483	67,890,743	69,168,992	58,662,860	51,831,149	53,798,763	59,266,535	57,702,342	60,843,336	61,991,526	58,995,933	120.90	-4.8	65.7
mgd equiv	184.00		177.30		139.08	139.13	141.75	120.22	106.22	110.25	121.46	118.25	124.69	127.04	120.90		-4.8	
* Agencies receiving 100% of their supply from the SF RWS (16 total). ** Inclusive of Guadalupe Valley MID beginning in FY 2010-11. *** Inclusive of Bear Gulch, Mid-Peninsula, and South San Francisco districts.																		
1 Hayward has a unique contract that does not place quantified limits on their purchases from SF RWS. For reporting purposes here, the "supply guarantee" shown for Hayward is their current year purchase (FY 2017-18). The "Residual" total is a calculated number to bring the total to 184 mgd.																		
Note: Some agencies purchase SF RWS water which is then conveyed to a neighboring agency. The receiving agency is credited with this purchase; the transferring agency debited. This does not include the specific purchase of water by the City of San Bruno from North Coast County Water District.																		
Note: Beginning in FY 2015-16, Daly City, CWS-South San Francisco, and San Bruno began participating in the Regional Groundwater Storage and Recovery Program whereby surplus surface water is delivered in lieu of groundwater pumping. Additional surface water supplies are utilized in lieu of groundwater pumping when available. Values shown above exclude In Lieu Water deliveries.																		
Note: In June 2017, Mountain View transferred 1 mgd of Supply Guarantee to East Palo Alto. In July 2018, Palo Alto transferred 0.5 mgd of lsg to East Palo Alto. The Supply Guarantee in the above table reflects these transfers.																		
Source: BAWSCA Annual Surveys																		

Figure 2B: Monthly/Seasonal Purchases from SF RWS among BAWSCA Members – FY 2021-22

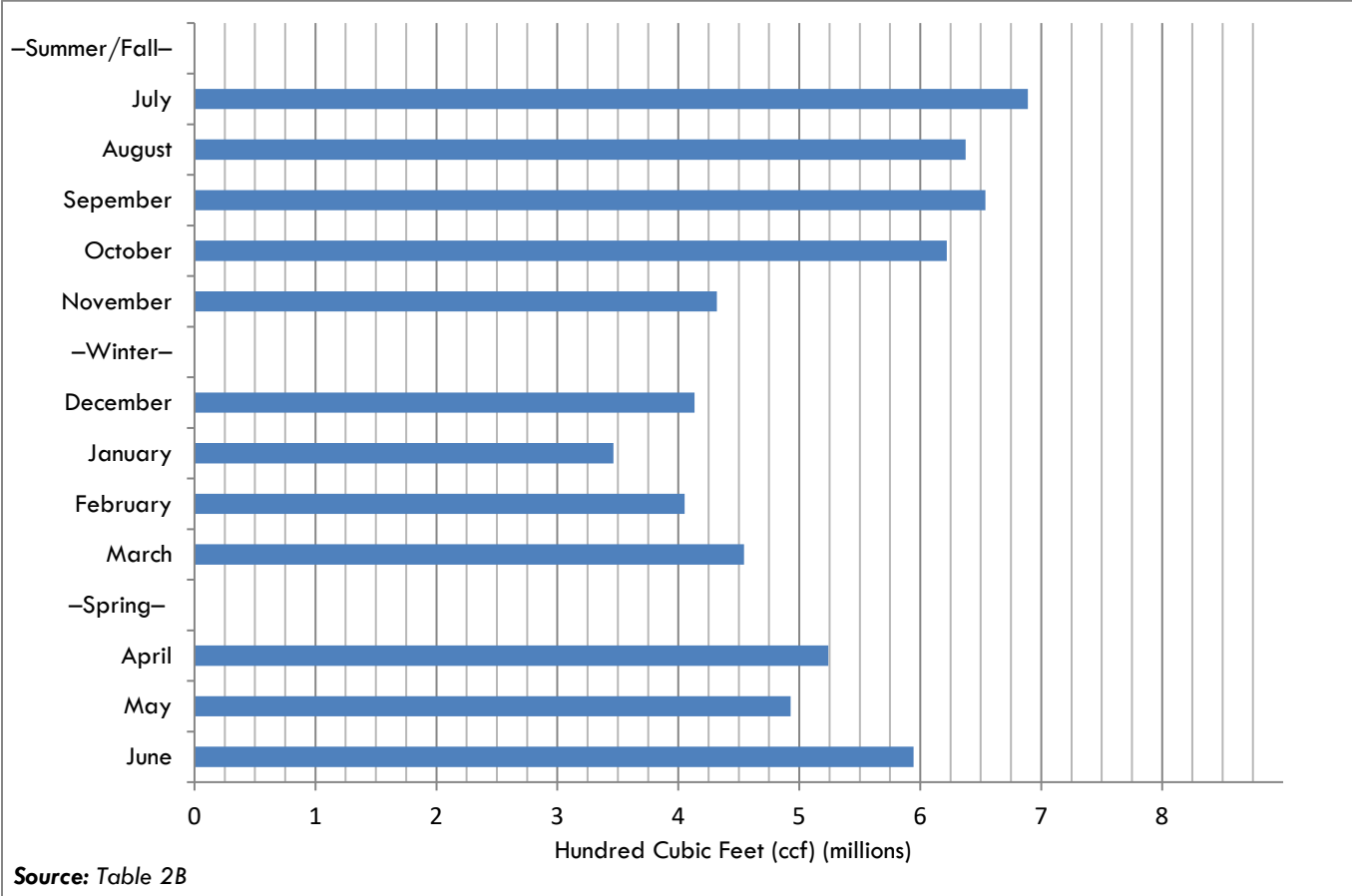


Table 2B: Monthly/Seasonal Purchases from SF RWS Among BAWSCA Members – FY 2021-22 (in ccf) SFPUC Commercial Division Records Data

SFPUC Commercial Division Records Data ¹																			
Member	Summer/Fall						Winter				Spring			Year					
	July	Aug	Sept	Oct	Nov	Total	Dec	Jan	Feb	March	Total	April	May	June	Total	mgd			
* Alameda CWD	450,956	377,929	383,526	356,343	176,418	1,745,172	330,555	185,003	254,080	334,260	1,103,898	618,380	534,044	574,115	1,726,540	4,575,609	9.38		
Brisbane	20,001	19,523	20,571	21,206	17,056	98,357	15,762	16,819	13,904	15,159	61,644	19,765	15,752	17,781	53,298	213,299	0.44		
Burlingame	157,474	159,550	157,438	143,804	121,912	740,178	105,564	98,899	97,791	106,333	408,587	138,894	136,000	171,564	446,458	1,595,223	3.27		
* CWS - Bear Gulch	668,416	568,869	663,248	719,121	239,925	2,859,579	230,440	251,033	271,748	360,265	1,113,485	363,478	365,435	510,709	1,239,622	5,212,686	10.68		
CWS - Mid Peninsula	688,689	594,259	625,785	616,797	413,354	2,938,884	418,230	114,443	672,760	442,354	1,647,787	505,028	451,610	531,577	1,488,215	6,074,885	12.45		
* CWS - South SF 2	295,162	257,232	263,553	274,243	220,405	1,310,595	225,613	193,925	198,015	223,626	841,179	246,436	232,298	244,994	723,729	2,875,503	5.89		
* Coastside CWD	86,247	83,579	97,329	61,443	57,937	386,535	12,573	12,637	4,157	6,286	35,653	11,907	18,193	39,011	69,111	491,299	1.01		
* Daly City 2	213,132	170,486	134,980	148,375	119,738	786,710	120,445	140,639	133,679	145,544	540,307	170,045	145,282	163,762	479,089	1,806,106	3.70		
East Palo Alto	72,021	63,246	65,217	66,016	47,255	313,755	49,420	52,530	48,426	55,708	206,084	65,252	53,530	60,647	179,429	699,268	1.43		
Esterlo MID	219,768	198,533	202,692	187,690	113,624	922,307	118,048	114,705	105,481	130,379	468,613	166,797	150,127	179,565	496,489	1,887,409	3.87		
Guadalupe Valley MID	8,741	11,600	8,228	8,228	6,725	43,965	5,317	6,144	4,091	4,537	20,089	6,715	5,791	7,638	20,144	84,198	0.17		
Hayward	733,713	635,427	710,720	610,667	465,807	3,156,334	506,952	455,529	455,293	558,768	1,976,542	532,964	514,874	673,809	1,721,647	6,854,523	14.05		
Hillsborough	166,862	149,277	156,801	143,970	59,609	676,520	49,126	36,510	46,495	71,080	203,211	86,335	80,112	112,479	278,926	1,158,656	2.37		
Menlo Park	157,839	136,194	132,362	128,655	70,813	625,863	72,663	62,122	71,944	85,256	291,985	114,294	97,175	129,419	340,888	1,258,736	2.58		
Mid-Peninsula WD	127,838	117,477	129,386	111,536	82,934	569,171	76,410	69,496	81,640	84,705	312,251	94,986	92,985	112,103	300,074	1,181,496	2.42		
Millbrae	87,545	88,365	85,652	76,837	67,309	405,709	60,167	59,638	55,896	60,851	236,552	58,882	58,153	66,569	183,604	825,865	1.69		
* Milpitas	285,437	242,963	225,133	225,889	201,774	1,181,196	155,402	144,845	140,063	153,718	594,028	178,995	180,605	197,584	557,184	2,332,408	4.78		
* Mountain View	389,141	394,307	364,017	353,009	294,048	1,794,522	230,062	225,954	200,654	236,319	892,989	293,640	291,732	327,642	913,014	3,600,525	7.38		
* North Coast CWD	112,793	105,538	120,006	115,812	84,889	539,038	103,700	95,805	74,292	64,490	338,287	68,760	66,110	78,440	213,310	1,090,635	2.24		
Palo Alto	565,167	495,424	508,549	478,810	283,707	2,331,657	291,370	262,802	270,761	333,869	1,158,802	403,953	340,266	474,506	1,218,725	4,709,184	9.65		
Purissima Hills WD	103,501	109,949	100,991	96,922	65,075	476,438	37,492	29,477	27,953	47,237	142,158	55,203	56,582	80,738	192,523	811,119	1.66		
Redwood City	408,067	379,346	418,136	365,028	279,018	1,849,595	250,808	224,260	264,984	312,421	1,052,473	285,523	298,133	376,951	960,607	3,862,674	7.92		
* San Bruno 2	110,269	68,455	58,340	60,392	53,223	350,679	35,553	29,116	27,064	26,806	118,538	33,345	27,251	40,452	101,048	570,266	1.17		
* San Jose MWS-North	190,101	204,246	190,232	190,090	171,371	946,040	135,071	128,659	120,702	139,582	524,014	166,859	161,695	176,431	504,985	1,975,039	4.05		
* Santa Clara	143,730	154,912	148,581	146,310	140,185	733,718	129,602	133,453	113,710	100,544	477,309	112,451	110,570	110,564	333,585	1,544,612	3.17		
* Stanford University	67,182	68,290	70,018	78,836	51,444	335,770	47,267	48,164	46,369	52,570	194,370	51,192	63,576	69,316	184,084	714,224	1.46		
* Sunnyvale	325,476	491,957	463,154	416,172	384,199	2,080,958	297,854	261,216	226,949	364,438	1,150,547	359,739	353,026	391,977	1,104,742	4,336,157	8.89		
Westborough WD	34,561	27,813	33,492	16,781	29,802	142,449	22,948	8,935	23,881	25,242	81,006	29,452	28,053	25,196	82,701	306,156	0.63		
Totals	6,889,827	6,374,746	6,538,137	6,219,479	4,319,503	30,341,692	4,134,413	3,462,758	4,052,782	4,542,344	16,192,298	5,239,270	4,928,960	5,945,540	16,113,770	62,647,759	128.38		
	Seasonal Comparisons						Summer/Fall				Winter				Spring			Year	
						2011-12	34,889,999				2011-12	18,786,621			2011-12	16,953,589	70,630,209	144.74	
						2012-13	35,927,152				2012-13	17,236,235			2012-13	19,027,049	72,190,436	147.94	
						2013-14	36,602,803				2013-14	18,958,782			2013-14	17,488,648	73,050,233	149.70	
						2014-15	31,404,179				2014-15	16,571,143			2014-15	14,502,045	62,477,367	128.04	
						2015-16	25,993,686				2015-16	14,369,236			2015-16	14,124,948	54,487,870	111.66	
						2016-17	28,843,372				2016-17	14,458,909			2016-17	15,679,219	58,981,500	120.87	
						2017-18	32,895,226				2017-18	16,837,505			2017-18	15,914,209	65,646,941	134.53	
						2018-19	31,934,491				2018-19	15,621,040			2018-19	16,008,279	63,563,810	130.26	
						2019-20	31,520,643				2019-20	17,425,736			2019-20	15,522,330	64,468,709	132.12	
						2020-21	32,243,028				2020-21	16,700,713			2020-21	16,904,050	65,847,791	134.94	
						2021-22	30,341,692				2021-22	16,192,298			2021-22	16,113,770	62,647,759	128.38	
						Since 1983-84	Record Highs:	2003-04	45,402,020		1987-88	21,979,000			1986-87	25,083,000	1986-87	185.31	
						Record Lows:	2015-16	25,993,686		1983-84	13,429,000			1990-91	13,464,000	2015-16	111.66		

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

² Beginning in FY 2015-16, these agencies began participating in the Regional Groundwater Storage and Recovery Program 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 SF RWS In Lieu Water delivered to Daly City, CWS - South SF, and San Bruno (if applicable). See Table 2D.

* Agency has other sources besides SF RWS.

Source: SFPUC Commercial Division Records

**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		1980-81	72,463,235	148.5	166,353	8.9
1931-32	1,366,310	2.8	3,137	-9.7	1981-82	71,828,877	147.2	164,896	-0.9
1932-33	1,317,513	2.7	3,025	-3.6	1982-83	70,950,535	145.4	162,880	-1.2
1933-34	1,268,717	2.6	2,913	-3.7	1983-84	79,441,176	162.8	182,372	12.0
1934-35	1,171,123	2.4	2,689	-7.7	1984-85	82,759,358	169.6	189,989	4.2
1935-36	1,219,920	2.5	2,801	4.2	1985-86	83,149,733	170.4	190,886	0.5
1936-37	1,659,091	3.4	3,809	36.0	1986-87	90,176,471	184.8	207,017	8.5
1937-38	2,439,840	5.0	5,601	47.1	1987-88	88,273,396	180.9	202,648	-2.1
1938-39	3,122,995	6.4	7,169	28.0	1988-89	67,241,979	137.8	154,366	-23.8
1939-40	4,391,711	9.0	10,082	40.6	1989-90	78,221,257	160.3	179,571	16.3
1940-41	3,562,166	7.3	8,178	-18.9	1990-91	64,509,358	132.2	148,093	-17.5
1941-42	3,757,353	7.7	8,626	5.5	1991-92	61,191,176	125.4	140,476	-5.1
1942-43	4,196,524	8.6	9,634	11.7	1992-93	64,899,733	133.0	148,989	6.1
1943-44	5,562,834	11.4	12,771	32.6	1993-94	72,707,219	149.0	166,913	12.0
1944-45	8,734,625	17.9	20,052	57.0	1994-95	71,596,604	146.7	164,363	-1.5
1945-46	8,393,048	17.2	19,268	-3.9	1995-96	79,502,660	162.9	182,513	11.0
1946-47	9,076,203	18.6	20,836	8.1	1996-97	83,211,705	170.5	191,028	4.7
1947-48	9,612,968	19.7	22,068	5.9	1997-98	77,305,829	158.4	177,470	-7.1
1948-49	9,710,561	19.9	22,292	1.0	1998-99	82,214,786	168.5	188,739	6.4
1949-50	9,564,171	19.6	21,956	-1.5	1999-00	84,647,794	173.5	194,325	3.0
1950-51	11,223,262	23.0	25,765	17.3	2000-01	85,327,533	174.9	195,885	0.8
1951-52	12,784,759	26.2	29,350	13.9	2001-02	83,562,066	171.2	191,832	-2.1
1952-53	14,590,240	29.9	33,495	14.1	2002-03	82,654,243	169.4	189,748	-1.1
1953-54	17,176,470	35.2	39,432	17.7	2003-04	88,480,297	181.3	203,123	7.0
1954-55	21,763,368	44.6	49,962	26.7	2004-05	81,672,866	167.4	187,495	-7.7
1955-56	23,324,866	47.8	53,547	7.2	2005-06	80,255,145	164.5	184,240	-1.7
1956-57	25,911,095	53.1	59,484	11.1	2006-07	85,779,136	175.8	196,922	6.9
1957-58	22,690,507	46.5	52,090	-12.4	2007-08	84,618,323	173.4	194,257	-1.4
1958-59	27,814,170	57.0	63,853	22.6	2008-09	80,034,009	164.0	183,733	-5.4
1959-60	30,937,165	63.4	71,022	11.2	2009-10	73,920,589	151.5	169,698	-7.6
1960-61	32,010,694	65.6	73,486	3.5	2010-11	71,165,207	145.8	163,373	-3.7
1961-62	34,255,347	70.2	78,639	7.0	2011-12	70,630,209	144.7	162,145	-0.8
1962-63	38,256,683	78.4	87,825	11.7	2012-13	72,190,436	147.9	165,726	2.2
1963-64	44,161,095	90.5	101,380	15.4	2013-14	73,050,233	149.7	167,700	1.2
1964-65	47,430,480	97.2	108,885	7.4	2014-15	62,477,367	128.0	143,428	-14.5
1965-66	52,700,533	108.0	120,984	11.1	2015-16	54,487,870	111.7	125,087	-12.8
1966-67	54,652,405	112.0	125,465	3.7	2016-17	58,981,500	120.9	135,403	8.2
1967-68	63,972,592	131.1	146,861	17.1	2017-18	65,646,941	134.5	150,705	11.3
1968-69	61,630,346	126.3	141,484	-3.7	2018-19	63,563,810	130.3	145,922	-3.2
1969-70	67,778,741	138.9	155,599	10.0	2019-20	64,468,709	132.1	148,000	1.4
1970-71	64,753,340	132.7	148,653	-4.5	2020-21	65,847,791	134.9	151,166	2.1
1971-72	69,486,629	142.4	159,519	7.3	2021-22	62,647,759	128.4	143,819	-4.9
1972-73	65,046,121	133.3	149,325	-6.4					
1973-74	68,705,880	140.8	157,727	5.6					
1974-75	71,145,722	145.8	163,328	3.6					
1975-76	75,147,059	154.0	172,514	5.6					
1976-77	65,143,717	133.5	149,549	-13.3					
1977-78	48,113,636	98.6	110,454	-26.1					
1978-79	62,899,064	128.9	144,396	30.7					
1979-80	66,558,824	136.4	152,798	5.8					

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

Note: The above totals are inclusive of SF RWS In Lieu Water. See Table 2D.

Source: SFPUC Commercial Division Records

Table 2D: SF RWS In Lieu Water Deliveries to Participating BAWSCA Agencies (in ccf)

Year	CWS-South			Total ccf	Total mgd
	San Francisco	Daly City	San Bruno		
2002-03	144,508	933,975	459,969	1,538,452	3.15
2003-04	167,334	774,615	482,564	1,424,513	2.92
2004-05	0	1,348,045	674,241	2,022,286	4.14
2005-06	0	1,479,323	0	1,479,323	3.03
2006-07	0	1,160,313	0	1,160,313	2.38
2007-08	0	0	0	0	0.00
2008-09	0	165,750	0	165,750	0.34
2009-10	0	904,856	0	904,856	1.85
2010-11	0	1,061,951	0	1,061,951	2.18
2011-12	0	0	0	0	0.00
2012-13	0	0	0	0	0.00
2013-14	0	0	0	0	0.00
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
2017-18	668,470	1,060,963	890,214	2,619,647	5.37
2018-19	668,470	1,055,309	793,401	2,517,180	5.16
2019-20	670,301	1,057,033	922,606	2,649,940	5.43
2020-21	668,470	1,040,352	883,411	2,592,233	5.31
2021-22	0	0	0	0	0.00

Starting in FY 2002-03, Cal Water (South San Francisco), Daly City, and San Bruno participated in the Conjunctive Use Pilot 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. During the Pilot Program, SF RWS water delivered in lieu of groundwater pumping was referred to as Supplemental Water. 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.

Beginning in FY 2015-16, the participating BAWSCA agencies and the SFPUC began the Regional Groundwater Storage and Recovery Program. 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. During normal and wet years, In Lieu Water is provided to the participating agencies.

Source: BAWSCA FY 2021-22 Annual Survey

3. Total Water Supply and Demand

Table 3A: Historical Total Water Use by BAWSCA Agency (in ccf). Inclusive of non-revenue water and In Lieu Water deliveries

Member	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	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	mgd
San Mateo County															
Brisbane / GVMID	179,743	123,803	275,934	280,650	287,290	302,776	280,029	257,414	294,756	334,217	323,917	310,127	303,604	298,906	0.61
Burlingame	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	1,842,356	1,815,582	1,750,350	1,653,540	1,687,626	3.46
CWS - Bear Gulch	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	5,165,363	5,033,422	5,566,308	5,836,065	5,227,682	10.71
CWS - Mid Peninsula	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	6,083,059	5,991,673	6,292,879	6,336,593	6,074,256	12.45
CWS - South SF	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	3,042,831	2,945,508	2,961,510	2,890,693	2,868,442	5.88
Coastside CWD	1,055,296	986,484	894,746	896,631	996,377	997,259	877,579	817,339	812,567	902,206	872,781	891,158	886,215	771,845	1.58
Cordilleras	Not BAWSCA Member														
Daly City	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	3,055,121	3,046,110	3,139,345	2,877,565	3,080,007	6.31
East Palo Alto	938,629	842,883	863,282	907,662	1,010,939	720,040	766,380	690,728	730,899	772,528	763,315	764,448	748,457	704,834	1.44
Estero MID	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	2,068,753	1,969,663	2,115,607	2,101,104	1,887,409	3.87
Guadalupe Valley MID	122,888	152,798	Included with Brisbane												
Hillsborough	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	1,234,547	1,124,778	1,280,605	1,314,680	1,141,504	2.34
Los Trancos															
Menlo Park	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	1,393,425	1,383,605	1,442,176	1,379,039	1,195,123	2.45
Mid-Peninsula WD	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	1,221,454	1,220,573	1,295,922	1,273,998	1,172,923	2.40
Millbrae	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	992,865	949,289	939,939	906,122	900,514	1.85
North Coast CWD	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	1,169,151	1,142,039	1,177,652	1,194,417	1,084,637	2.22
Redwood City	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	4,462,425	4,246,670	4,651,110	4,498,987	4,169,575	8.54
San Bruno	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	1,488,555	1,374,751	1,511,466	1,506,577	1,480,750	3.03
Skyline	Included with CWS-Bear Gulch														
Westborough WD	485,493	394,878	408,487	440,796	441,233	433,980	377,034	390,753	356,722	383,996	379,833	400,616	373,994	327,131	0.67
Subtotal	43,651,411	40,685,124	40,272,636	40,054,386	39,905,612	40,482,154	35,339,657	31,508,977	32,891,121	35,612,852	34,583,510	36,491,218	36,081,650	34,073,163	69.83
mgd	89.46	83.38	82.53	82.08	81.78	82.96	72.42	64.57	67.40	72.98	70.87	74.78	73.94	69.83	
Santa Clara County															
Milpitas	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	4,407,989	4,459,591	4,583,002	4,589,507	4,265,384	8.74
Mountain View	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	4,293,493	4,220,597	4,477,254	4,559,155	4,221,774	8.65
Palo Alto	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	5,252,489	4,969,831	5,137,657	5,452,454	5,185,748	10.63
Purissima Hills WD	980,987	854,854	839,360	899,221	972,733	982,100	803,313	640,369	689,261	814,270	770,703	851,999	925,721	799,210	1.64
San Jose	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	2,626,952	2,513,187	2,499,664	2,534,036	2,481,508	5.09
Santa Clara	10,175,656	10,139,329	10,197,067	10,695,253	10,757,568	10,757,505	9,768,682	8,817,463	9,141,873	9,957,730	9,523,015	9,617,423	9,454,016	9,095,223	18.64
Stanford	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	1,264,778	1,228,167	1,221,078	1,198,813	1,227,293	2.52
Sunnyvale	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	8,333,441	8,237,461	8,731,750	8,857,476	8,244,518	16.90
Subtotal	42,556,893	39,757,387	39,640,158	40,139,526	41,122,896	41,117,818	36,274,313	32,374,038	34,006,180	36,951,300	35,922,552	37,119,827	37,571,178	35,520,658	72.79
mgd	87.21	81.48	81.24	82.26	84.27	84.26	74.34	66.34	69.69	75.72	73.62	76.07	77.00	72.79	
Alameda County															
Alameda CWD	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	18,057,620	18,066,739	18,900,527	19,469,820	17,906,331	36.70
Hayward	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	7,101,954	6,821,848	6,794,224	7,098,330	6,864,956	14.07
Subtotal	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	25,159,574	24,888,587	25,694,751	26,568,150	24,771,287	50.76
mgd	64.00	59.79	59.90	58.85	58.94	56.72	47.39	44.64	47.68	51.56	51.00	52.66	54.45	50.76	
Total	117,440,576	109,619,067	109,143,031	108,913,138	109,791,326	109,276,050	95,000,295	85,667,579	90,165,067	97,723,725	95,394,628	99,394,628	100,220,978	94,365,109	193.38
mgd	240.67	224.64	223.67	223.20	225.00	223.94	194.69	175.56	184.78	200.27	195.49	203.51	205.38	193.38	
% Change	-6.2	-6.7	-0.4	-0.2	0.8	-0.5	-13.1	-9.8	5.2	8.4	-2.4	4.1	0.9	-5.8	
Note: Totals inclusive of SF RWS In Lieu Water.															
Source: BAWSCA Annual 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	118,081,751	242.0	271,078	-7.0
1998-99	124,630,030	255.4	286,111	5.5
1999-00	128,677,573	263.7	295,403	3.2
2000-01	128,905,099	264.2	295,925	0.2
2001-02	124,144,929	254.4	284,998	-3.7
2002-03	122,510,157	251.1	281,245	-1.3
2003-04	129,222,361	264.8	296,654	5.5
2004-05	119,049,118	244.0	273,299	-7.9
2005-06	120,114,923	246.2	275,746	0.9
2006-07	125,003,151	256.2	286,968	4.1
2007-08	125,208,913	256.6	287,440	0.2
2008-09	117,440,576	240.7	269,606	-6.2
2009-10	109,619,067	224.6	251,651	-6.7
2010-11	109,143,031	223.7	250,558	-0.4
2011-12	108,913,138	223.2	250,030	-0.2
2012-13	109,791,326	225.0	252,046	0.8
2013-14	109,276,050	223.9	250,863	-0.5
2014-15	95,000,295	194.7	218,091	-13.1
2015-16	85,667,579	175.6	196,666	-9.8
2016-17	90,165,067	184.8	206,991	5.2
2017-18	97,723,725	200.3	224,343	8.4
2018-19	95,394,628	195.5	218,996	-2.4
2019-20	99,305,796	203.5	227,975	4.1
2020-21	100,220,978	205.4	230,076	0.9
2021-22	94,365,109	193.4	216,632	-5.8
*Inclusive of non-revenue water and SF RWS In Lieu Water (see Table 2D).				
Source: BAWUA/BAWSCA Annual Surveys				

Figure 3C: Water Use by Source of Supply – FY 2021-22

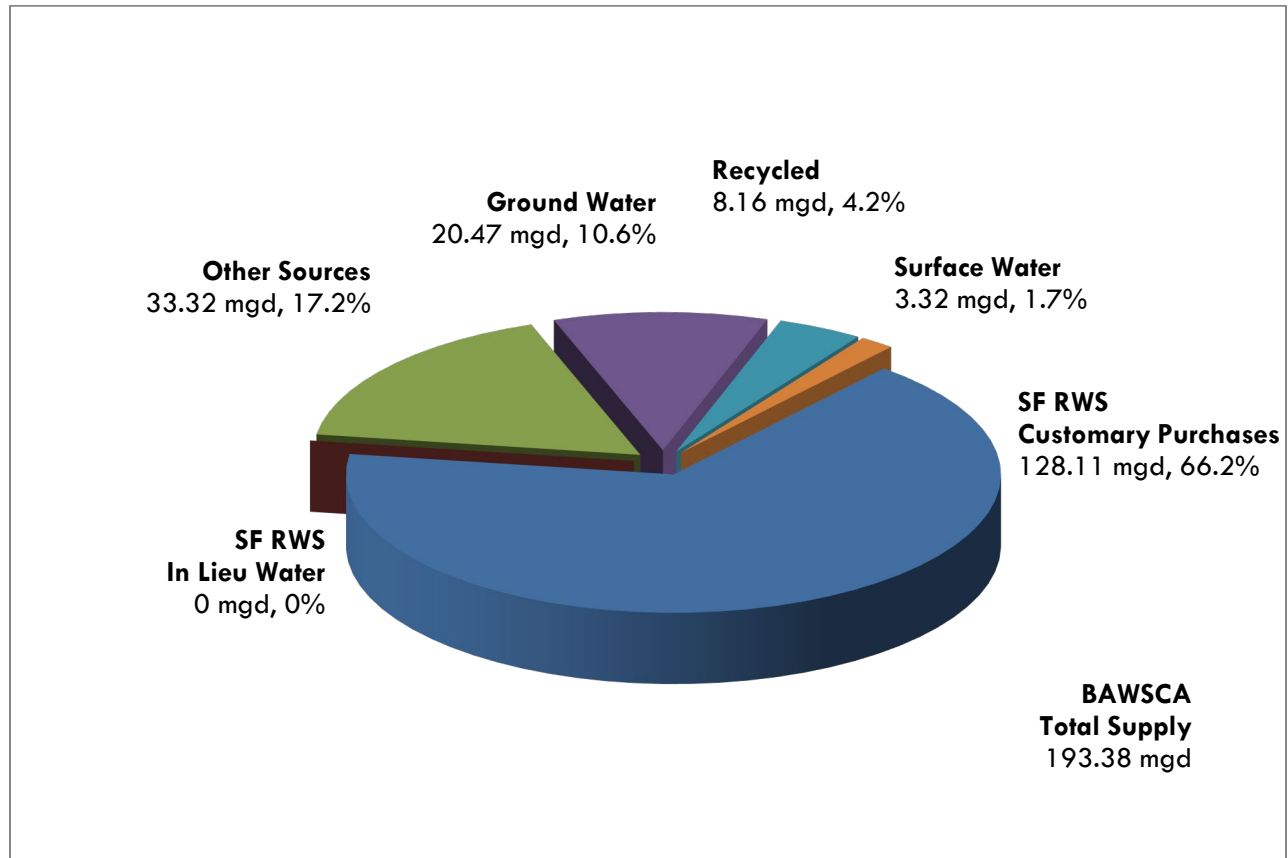


Figure 3D: Total Monthly Water Use for All BAWSCA Agencies – FY 2021-22

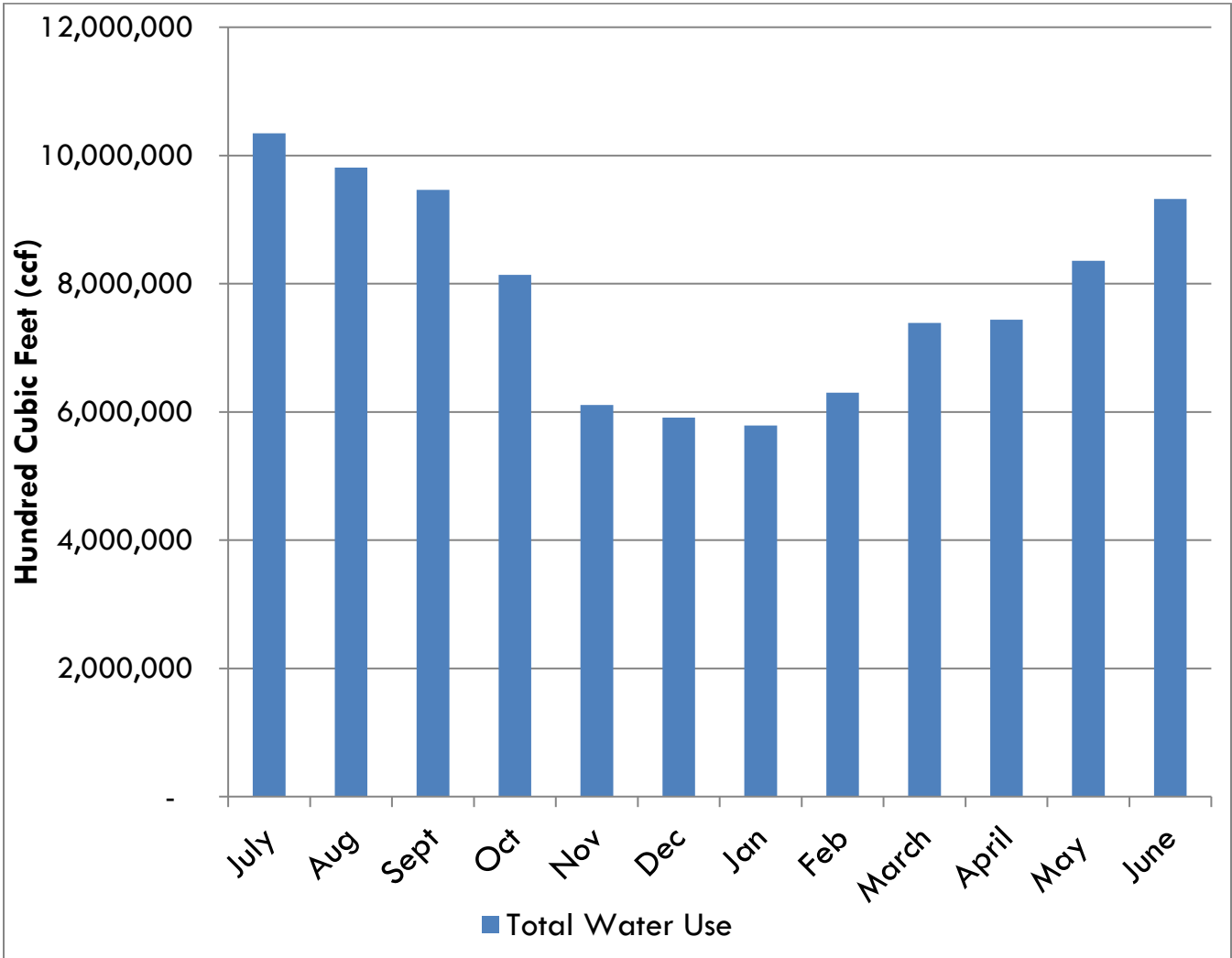


Table 3C: Water Use by Source of Supply – FY 2021-22 (in ccf)

Member	SF RWS Purchases			Local Sources (non-SF RWS)				Other Sources				Totals		
	Customary	SF RWS In Lieu Water	% of Supply	Ground Water	% of Supply	Surface Water	% of Supply	Recycled Water	% of Supply	Other Sources	% of Supply	Total Supply	mgd Equip	% of Total
San Mateo County														
Brisbane / GVMID	298,906	0	100.0%	0	0%	0	0%	0	0%	0	0%	298,906	0.61	0.32%
Burlingame	1,640,372	0	97.2%	0	0%	0	0%	47,254	3%	0	0%	1,687,626	3.46	1.79%
CWS - Bear Gulch	5,114,178	0	97.8%	0	0%	113,504	2.2%	0	0%	0	0%	5,227,682	10.71	5.54%
CWS - Mid Peninsula	6,074,256	0	100.0%	0	0%	0	0%	0	0%	0	0%	6,074,256	12.45	6.44%
CWS - South SF	2,868,442	0	100.0%	0	0%	0	0%	0	0%	0	0%	2,868,442	5.88	3.04%
Coastside CWD	468,075	0	60.6%	12,340	1.6%	291,430	37.8%	0	0%	0	0%	771,845	1.58	0.82%
Daly City	1,776,082 *	0	57.7%	996,438	32%	0	0%	307,487	10.0%	0	0%	3,080,007	6.31	3.26%
East Palo Alto**	699,368	0	99.2%	5,466	1%	0	0%	0	0%	0	0%	704,834	1.44	0.75%
Estero MID	1,887,409	0	100.0%	0	0%	0	0%	0	0%	0	0%	1,887,409	3.87	2.00%
Hillsborough	1,141,504	0	100.0%	0	0%	0	0%	0	0%	0	0%	1,141,504	2.34	1.21%
Menlo Park	1,195,123	0	100.0%	0	0%	0	0%	0	0%	0	0%	1,195,123	2.45	1.27%
Mid-Peninsula WD	1,172,923	0	100.0%	0	0%	0	0%	0	0%	0	0%	1,172,923	2.40	1.24%
Millbrae	900,514	0	100.0%	0	0%	0	0%	0	0%	0	0%	900,514	1.85	0.95%
North Coast CWD	1,068,893	0	98.5%	0	0%	0	0%	15,744	1%	0	0%	1,084,637	2.22	1.15%
Redwood City	3,855,958	0	92.5%	0	0%	0	0%	313,616	7.5%	0	0%	4,169,575	8.54	4.42%
San Bruno	507,220	0	34.3%	961,490	64.9%	0	0%	0	0%	12,040	0.8% †	1,480,750	3.03	1.57%
Westborough WD	301,090	0	92.0%	0	0%	0	0%	0	0%	26,041	8%	327,131	0.67	0.35%
Subtotal	30,970,313	0	90.9%	1,975,733	5.8%	404,935	1.2%	684,102	2.01%	38,081	0.1%	34,073,163	69.83	36.11%
mgd equiv	63.47	0.00		4.05		0.83		1.40		0.08		69.83		
Santa Clara County														
Milpitas	2,251,779	0	52.8%	0	0%	0	0%	423,744	9.9%	1,589,861	37.3%	4,265,384	8.74	4.52%
Mountain View	3,581,200	0	84.8%	46,002	1.1%	0	0%	188,938	4%	405,634	9.6%	4,221,774	8.65	4.47%
Palo Alto	4,709,184	0	90.8%	0	0%	0	0%	476,564	9.2%	0	0%	5,185,748	10.63	5.50%
Purissima Hills WD	799,210	0	100.0%	0	0%	0	0%	0	0%	0	0%	799,210	1.64	0.85%
San Jose	2,004,207	0	80.8%	14,866	0.6%	0	0%	462,435	18.6%	0	0%	2,481,508	5.09	2.63%
Santa Clara	1,515,536	0	16.7%	4,447,151	48.9%	0	0%	1,602,429	17.6%	1,530,108	16.8%	9,095,223	18.64	9.64%
Stanford***	714,224	0	58.2%	0	0%	0	0%	0	0%	513,069	42%	1,227,293	2.52	1.30%
Sunnyvale	4,490,366	0	54.5%	58,775	0.7%	0	0%	134,003	1.6%	3,561,374	43.2%	8,244,518	16.90	8.74%
Subtotal	20,065,706	0	56.5%	4,566,794	12.9%	0	0.0%	3,288,113	9.3%	7,600,046	21.4%	35,520,658	72.79	37.64%
mgd equiv	41.12	0.00		9.36		0.00		6.74		15.57		72.79		
Alameda County														
Alameda CWD	4,625,134	0	25.8%	3,444,116	19.2%	1,216,196	6.8%	0	0%	8,620,885	48.1%	17,906,331	36.70	19.0%
Hayward	6,854,523	0	99.8%	0	0%	0	0%	10,433	0%	0	0.0%	6,864,956	14.07	7.3%
Subtotal	11,479,657	0	46.3%	3,444,116	13.9%	1,216,196	4.9%	10,433	0%	8,620,885	34.8%	24,771,287	50.76	26.25%
mgd equiv	23.53	0.00		7.06		2.49				17.67		50.76		
Total	62,515,676	0	66.2%	9,986,643	10.6%	1,621,131	1.7%	3,982,647	4.2%	16,259,012	17.2%	94,365,109	193.38	100.0%
mgd equiv	128.11	0.00		20.47		3.32		8.16		33.32		193.38		
*The total recycled water noted here is the portion that actually replaces a potable supply.											† Purchase of SF RWS supply from NCCWD.			
**Excludes resale SFPUC supply sold.														
***"Other Sources" is made up of purchases from SCVWD, local surface water, local groundwater, and stormwater capture used for irrigation (non-potable supplies).														
Source: BAWSCA FY 2021-22 Annual Survey														

Table 3D: Total Monthly Water Use – FY 2021-22 (in ccf)

Member	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June	Total	mgd
San Mateo County														
Brisbane / GVMID	31,123	28,799	29,931	23,727	21,079	22,963	17,995	19,696	26,480	21,543	25,419	30,151	298,906	0.61
Burlingame	163,476	161,365	147,731	125,841	109,495	102,831	101,722	110,263	146,452	152,907	189,393	176,149	1,687,626	3.46
CWS - Bear Gulch	683,966	659,855	628,765	475,589	221,970	195,994	219,651	319,212	391,371	384,110	498,872	548,328	5,227,682	10.71
CWS - Mid Peninsula	647,299	628,954	587,125	524,964	397,820	388,911	402,927	418,821	483,068	466,639	545,176	582,553	6,074,256	12.45
CWS - South SF	276,017	271,864	256,876	243,004	205,824	203,488	207,755	212,079	241,270	234,095	255,394	260,776	2,868,442	5.88
Coastside CWD	88,142	82,754	79,866	66,992	48,757	51,390	47,086	52,955	59,947	58,917	62,580	72,460	771,845	1.58
Daly City	262,199	251,892	263,103	235,157	211,081	230,772	228,114	252,253	269,019	256,286	303,730	316,402	3,080,007	6.31
East Palo Alto	72,391	63,748	65,795	66,454	47,579	49,665	52,923	48,933	56,436	65,842	53,995	61,073	704,834	1.44
Estero MID	219,768	198,533	202,692	187,690	113,624	118,048	114,705	105,481	130,379	166,797	150,127	179,565	1,887,409	3.87
Hillsborough	149,277	156,801	143,970	59,609	49,126	36,510	46,495	71,080	86,335	80,112	112,479	149,710	1,141,504	2.34
Menlo Park	147,907	139,602	125,112	105,865	73,227	64,520	63,581	80,251	75,063	103,257	85,620	131,118	1,195,123	2.45
Mid-Peninsula WD	124,937	122,680	114,261	101,940	75,982	74,686	76,961	77,824	92,666	96,138	105,376	109,472	1,172,923	2.40
Millbrae	87,545	88,365	85,652	76,837	62,309	60,167	59,638	55,896	64,480	71,862	72,057	115,706	900,514	1.85
North Coast CWD	94,406	111,577	95,512	79,111	92,903	79,896	80,537	78,915	85,149	81,714	97,344	107,573	1,084,637	2.22
Redwood City	427,557	467,150	406,304	309,020	256,635	229,805	267,749	324,633	319,893	321,978	408,325	430,527	4,169,575	8.54
San Bruno	139,202	140,073	136,844	120,066	112,707	112,466	107,243	107,818	130,567	104,557	136,022	133,185	1,480,750	3.03
Westborough WD	27,813	33,492	29,279	29,802	27,129	18,297	23,881	25,242	29,452	28,053	25,196	29,495	327,131	0.67
Subtotal	3,643,025	3,607,503	3,398,818	2,831,667	2,127,246	2,040,409	2,118,962	2,361,352	2,688,027	2,694,806	3,127,104	3,434,244	34,073,163	69.83
% of Annual Use	11%	11%	10%	8%	6%	6%	6%	7%	8%	8%	9%	10%		
Santa Clara County														
Milpitas	450,147	428,523	411,052	371,604	300,169	283,743	273,326	288,811	342,653	343,728	376,563	395,065	4,265,384	8.74
Mountain View	473,326	435,492	416,676	346,718	262,994	255,183	228,431	275,409	342,131	342,168	395,691	447,555	4,221,774	8.65
Palo Alto	623,472	551,141	544,560	510,711	315,992	323,123	295,548	300,456	366,890	439,863	389,519	524,473	5,185,748	10.63
Purissima Hills WD	109,949	100,991	96,922	65,075	37,492	29,477	27,953	47,237	55,203	56,582	80,738	91,592	799,210	1.64
San Jose	323,521	198,997	313,052	185,496	181,047	134,714	140,992	145,020	200,468	173,829	250,019	234,353	2,481,508	5.09
Santa Clara	980,012	941,913	871,998	840,049	620,946	638,859	544,615	600,493	687,920	717,731	793,394	857,293	9,095,223	18.64
Stanford	161,577	142,010	150,004	127,111	61,159	56,590	52,377	62,126	79,601	90,071	97,721	146,946	1,227,293	2.52
Sunnyvale	900,302	851,389	781,597	682,603	544,631	504,621	502,273	565,566	658,749	667,910	748,770	836,108	8,244,518	16.90
Subtotal	4,022,306	3,650,456	3,585,861	3,129,366	2,324,430	2,226,310	2,065,514	2,285,117	2,733,615	2,831,882	3,132,415	3,533,385	35,520,658	72.79
% of Annual Use	11%	10%	10%	9%	7%	6%	6%	6%	8%	8%	9%	10%		
Alameda County														
Alameda CWD	1,945,631	1,918,134	1,768,377	1,563,884	1,190,862	1,137,264	1,148,555	1,196,422	1,407,665	1,379,347	1,577,834	1,672,256	17,906,331	36.70
Hayward	733,713	635,427	710,720	610,667	465,807	506,952	455,529	455,293	558,768	532,964	519,707	679,409	6,864,956	14.07
Subtotal	2,679,344	2,553,561	2,479,097	2,174,551	1,656,669	1,644,216	1,604,084	1,651,715	1,966,533	1,912,311	2,097,541	2,351,665	24,771,287	50.76
% of Annual Use	11%	10%	10%	9%	7%	7%	6%	7%	8%	8%	8%	9%		
Total	10,344,675	9,811,520	9,463,776	8,135,584	6,108,345	5,910,935	5,788,561	6,298,184	7,388,175	7,438,999	8,357,060	9,319,294	94,365,109	193.38
% of Annual Use	11%	10%	10%	9%	6%	6%	6%	7%	8%	8%	9%	10%		
Note: Totals inclusive of SF RWS In Lieu Water (if applicable).														
Source: BAWSCA FY 2021-22 Annual Survey														

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

Member	FY 2025-26	FY 2030-31	FY 2035-36	FY 2040-41	FY 2045-46
San Mateo County					
Brisbane / GVMID	0.97	0.97	0.97	0.97	0.98
Burlingame	4.13	4.21	4.30	4.43	4.56
CWS - Bear Gulch	10.67	10.58	10.61	10.56	10.58
CWS - Mid-Peninsula	12.86	12.96	13.19	13.36	13.63
CWS - South SF	5.36	5.31	5.44	5.77	6.15
CWS Total	28.89	28.85	29.24	29.69	30.35
Coastside CWD	1.40	1.38	1.36	1.33	1.33
Daly City	5.84	5.75	5.74	5.77	5.80
East Palo Alto	1.88	1.95	2.11	2.52	2.93
Estero MID	4.42	4.51	4.60	4.72	4.94
Hillsborough	3.18	3.33	3.31	3.29	3.27
Menlo Park	3.42	3.35	3.53	3.73	3.94
Mid-Peninsula WD	2.86	2.84	2.88	2.89	2.93
Millbrae	2.29	2.50	2.46	2.82	3.20
North Coast CWD	2.34	2.30	2.26	2.26	2.27
Redwood City	8.49	8.59	8.81	8.92	9.11
San Bruno	3.14	3.25	3.25	3.25	3.25
Westborough WD	0.87	0.86	0.85	0.85	0.85
Subtotal	74.10	74.64	75.69	77.43	79.71
Santa Clara County					
Milpitas	6.60	6.76	7.04	7.28	7.53
Mountain View	9.06	9.50	9.96	10.44	10.94
Palo Alto	10.23	10.40	10.59	10.84	11.09
Purissima Hills WD	2.09	2.09	2.12	2.13	2.15
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	1.70	1.90	2.10	2.30	2.50
Sunnyvale	9.15	9.29	10.70	11.43	12.09
Subtotal	47.82	48.94	51.49	53.42	55.30
Alameda County					
Alameda CWD	9.80	13.80	13.80	13.80	13.80
Hayward	17.77	18.39	19.44	20.50	21.81
Subtotal	27.57	32.19	33.24	34.30	35.61
Total	149.49	155.76	160.42	165.15	170.62
Total w/o SJ & SC	140.50	146.77	151.42	156.15	161.63
Source: BAWSCA FY 2021-22 Annual Survey					

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

Groundwater Production

Member	FY 2025-26	FY 2030-31	FY 2035-36	FY 2040-41	FY 2045-46
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	0.00	0.00	0.00	0.00	0.00
East Palo Alto	0.02	0.02	0.02	0.02	0.02
San Bruno	0.39	0.70	1.12	1.53	1.53
Subtotal	1.79	2.10	2.52	2.92	2.93
Santa Clara County					
Milpitas	0.00	0.00	0.00	0.00	0.00
Mountain View	0.25	0.25	0.25	0.25	0.25
San Jose	0.20	0.62	2.00	4.68	4.89
Santa Clara	8.81	9.59	10.27	10.75	11.23
Sunnyvale	0.10	0.10	0.10	0.10	0.10
Subtotal	9.36	10.56	12.62	15.78	16.47
Alameda County					
Alameda CWD	8.60	8.60	8.60	8.60	8.60
Total	19.75	21.26	23.74	27.30	28.00
<i>Source: BAWSCA FY 2021-22 Annual Survey</i>					

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

Surface Water Production

Member	FY 2025-26	FY 2030-31	FY 2035-36	FY 2040-41	FY 2045-46
San Mateo County					
CWS - Bear Gulch 1	0.75	0.75	0.75	0.75	0.75
Coastside CWD 2	0.52	0.52	0.52	0.49	0.48
Subtotal	1.27	1.27	1.27	1.24	1.23
Alameda County					
Alameda CWD 3	5.20	5.20	5.20	5.20	5.20
Total	6.47	6.47	6.47	6.44	6.43
1 Bear Gulch					
2 Pilarcitos Creek and Denniston Creek					
3 Del Valle Reservoir					
<i>Source: BAWSCA FY 2021-22 Annual Survey</i>					

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

Recycled Water

Member	FY 2025-26	FY 2030-31	FY 2035-36	FY 2040-41	FY 2045-46
San Mateo County					
Daly City	1.51	1.51	1.51	1.51	1.51
Menlo Park	0.13	0.33	0.33	0.33	0.35
NCCWD	0.02	0.02	0.02	0.02	0.02
Redwood City	1.15	1.27	1.50	1.52	1.53
Subtotal	2.80	3.13	3.36	3.37	3.40
Santa Clara County					
Milpitas	1.10	1.10	1.10	1.10	1.10
Mountain View	0.40	0.40	0.40	0.40	0.40
Palo Alto	0.28	0.28	0.28	0.28	0.28
San Jose	1.06	1.11	1.31	1.76	1.78
Santa Clara	4.08	4.90	5.88	7.06	8.46
Sunnyvale	0.80	0.90	1.00	1.10	1.30
Subtotal	7.72	8.69	9.97	11.69	13.32
Alameda County					
Hayward	0.20	0.20	0.20	0.30	0.30
Total	10.72	12.01	13.52	15.36	17.02

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

Other Sources

Member	FY 2025-26	FY 2030-31	FY 2035-36	FY 2040-41	FY 2045-46
Santa Clara County					
Milpitas 1	3.96	4.12	4.21	4.34	4.48
Mountain View 1	1.05	1.05	1.05	1.05	1.05
Santa Clara 1	4.07	4.07	4.07	4.07	4.07
Stanford	1.06	1.11	1.17	1.23	1.29
Sunnyvale 1	7.84	7.96	9.40	9.96	10.64
Subtotal	17.98	18.31	19.90	20.65	21.53
Alameda County					
Alameda CWD 2	16.30	11.93	11.77	11.90	18.96
Total	34.28	30.24	31.67	32.55	40.49
1 Purchases from SCVWD					
2 Purchases from State Water Project and desalination					
<i>Source: BAWSCA FY 2021-22 Annual Survey</i>					

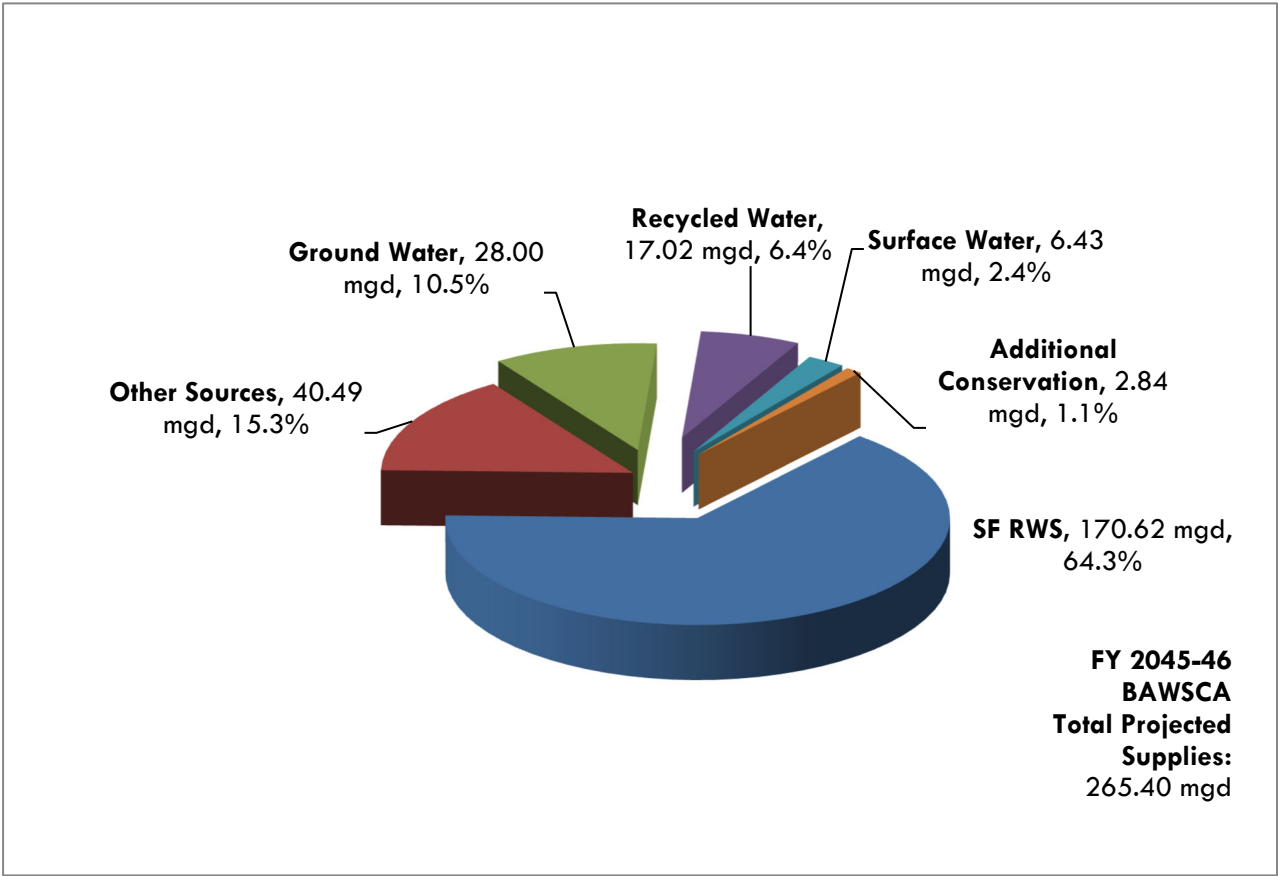
Table 3E-6: Demand Projections by Source (in mgd)

Summary

Demand Projections By Source (in mgd)					
Summary					
Source	FY 2025-26	FY 2030-31	FY 2035-36	FY 2040-41	FY 2045-46
SF RWS	149.49	155.76	160.42	165.15	170.62
Groundwater	19.75	21.26	23.74	27.30	28.00
Surface Water	6.47	6.47	6.47	6.44	6.43
Recycled	10.72	12.01	13.52	15.36	17.02
Other	34.28	30.24	31.67	32.55	40.49
Additional Conservation	1.06	1.88	2.33	2.65	2.84
Total	221.78	227.62	238.15	249.45	265.40

Source: BAWSCA FY 2021-22 Annual Surveys

Figure 3E: Demand Projections by Source – FY 2045-46 (in mgd)



4. Current Water Use by Customer Class

Figure 4A: Potable Water Use by Customer Class – FY 2021-22

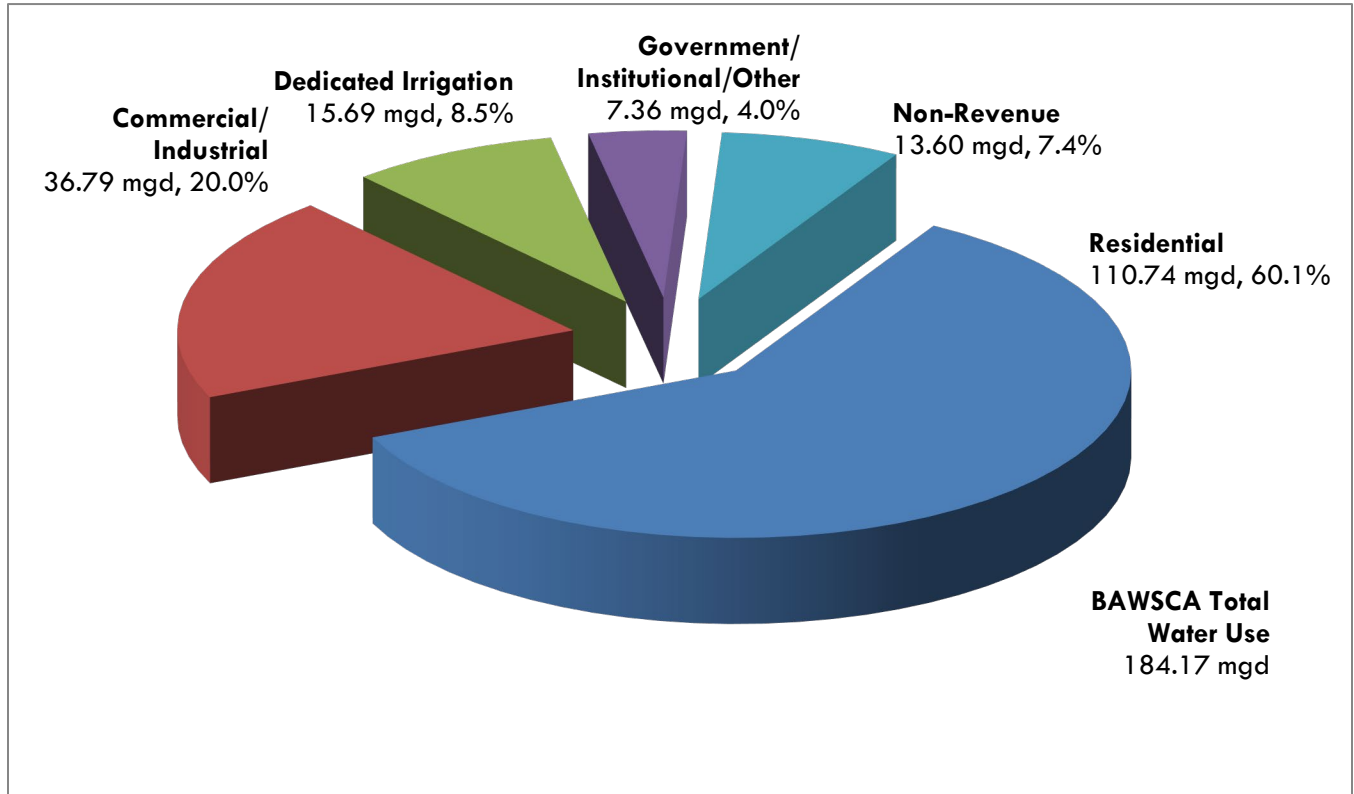


Figure 4B: Total Water Use by Customer Class – FY 2021-22

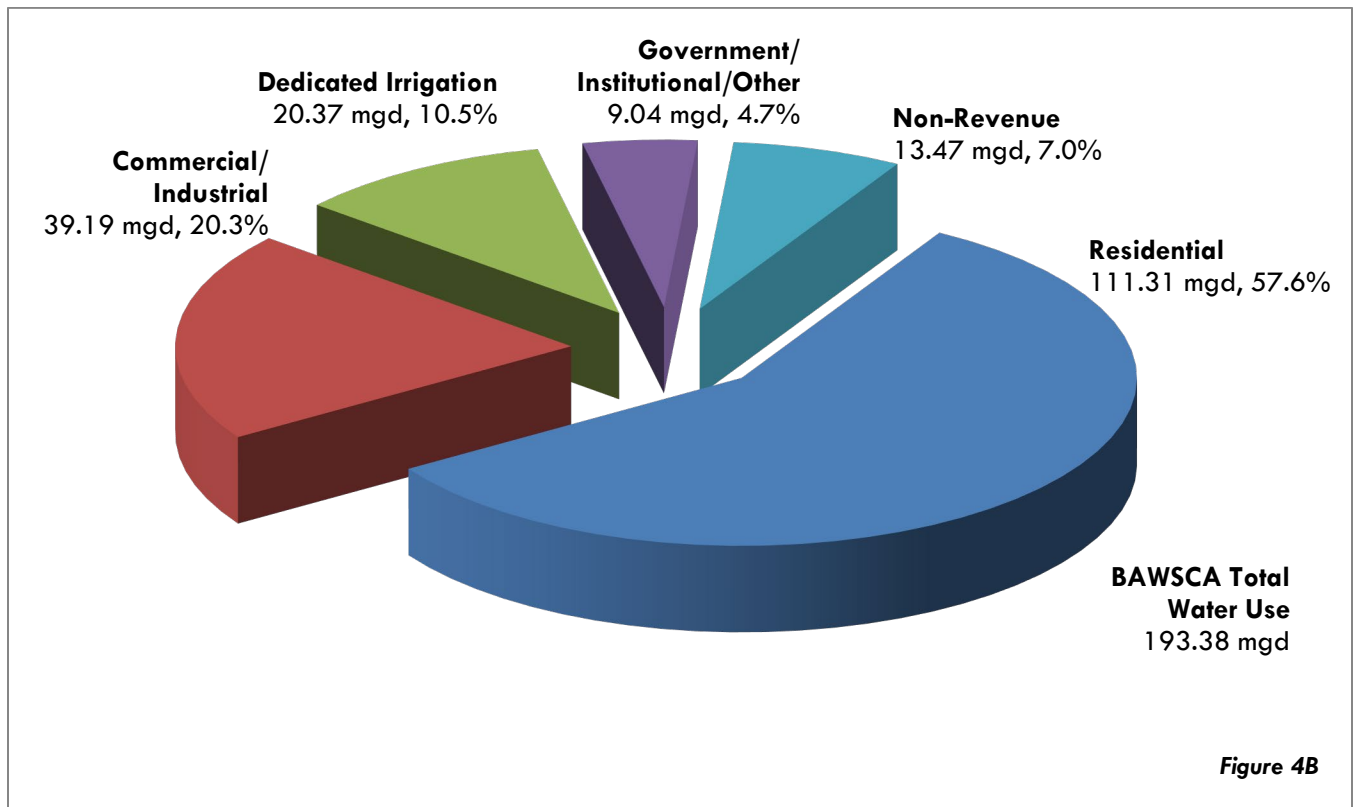


Figure 4B

Figure 4C: Potable Water Use by Sector for BAWSCA Agencies – FY 2021-22

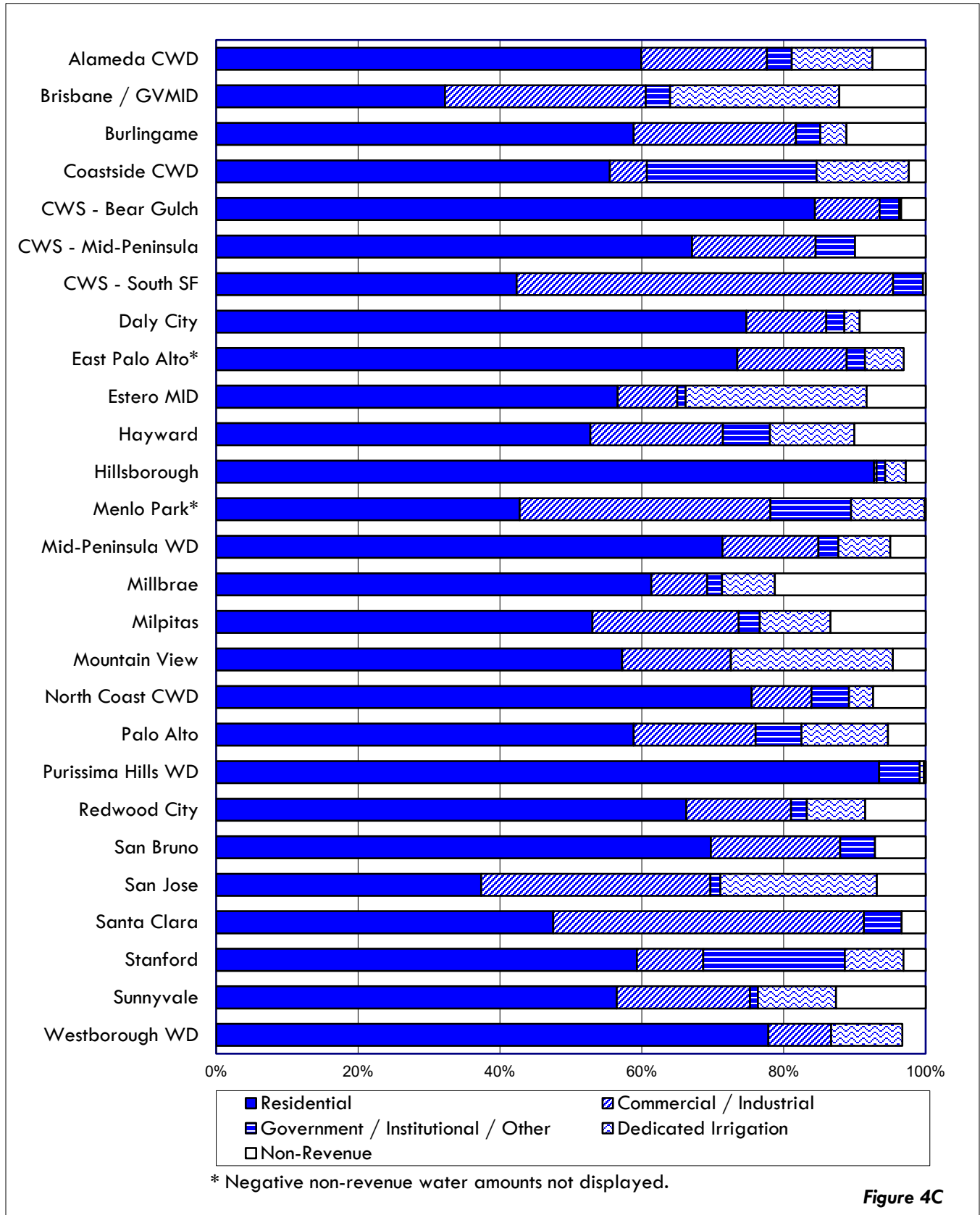


Figure 4C

Table 4A: Potable Water Use by Customer Class – FY 2021-22 (in ccf)

Member	Residential			Non-Residential					Dedicated Irrigation†	Non-Revenue Water‡	Total Potable Consumption		
	Single Family	Multiple Family	Subtotal	Commercial	Industrial	Comm'l/Ind'l Subtotal	Gov't/ Instit'l/Other	Subtotal			mgd	mgd	
San Mateo County													
Brisbane / GVMID	80,705	15,758	96,463	84,474	0	84,474	10,285	94,759	71,269	36,415	298,906	0.61	
Burlingame	657,999	307,594	965,593	289,424	85,394	374,818	56,562	431,380	60,482	182,918	1,640,372	3.36	
CWS - Bear Gulch	4,288,841	122,356	4,411,197	476,691	1,073	477,764	144,171	621,935	13,694	180,856	5,227,682	10.71	
CWS - Mid-Peninsula	3,208,963	866,597	4,075,560	1,042,967	14,281	1,057,248	337,275	1,394,523	0	604,173	6,074,256	12.45	
CWS - South SF	1,049,885	164,732	1,214,617	1,287,021	235,167	1,522,188	120,794	1,642,982	0	10,843	2,868,442	5.88	
Coastside CWD	388,790	39,412	428,202	40,365	0	40,365	184,481	224,846	100,379	18,418	771,845	1.58	
Daly City	1,472,983	598,394	2,071,377	309,873	3,173	313,046	70,286	383,332	59,754	258,057	2,772,520	5.68	
East Palo Alto*	552,003	0	552,003	111,439	4,449	115,888	19,384	135,272	40,838	-23,279	704,834	1.44	
Estero MID	443,275	624,904	1,068,179	134,085	24,623	158,708	21,665	180,373	482,115	156,742	1,887,409	3.87	
Hillsborough	1,058,579	0	1,058,579	3,998	0	3,998	13,917	17,915	33,112	31,898	1,141,504	2.34	
Menlo Park	383,769	127,490	511,259	242,643	179,865	422,508	135,806	558,314	124,289	1,261	1,195,123	2.45	
Mid-Peninsula WD	646,820	190,017	836,837	128,857	29,900	158,757	33,109	191,866	85,783	58,437	1,172,923	2.40	
Millbrae	407,617	144,774	552,391	70,805	0	70,805	18,731	89,536	67,232	191,355	900,514	1.85	
North Coast CWD	668,351	138,555	806,906	90,075	0	90,075	56,286	146,361	36,555	79,071	1,068,893	2.19	
Redwood City	1,774,287	780,580	2,554,867	532,920	36,317	569,237	86,685	655,922	316,751	328,418	3,855,958	7.90	
San Bruno*	1,032,586	0	1,032,586	269,983	0	269,983	72,182	342,165	0	105,999	1,480,750	3.03	
Westborough	234,610	37,949	272,559	30,987	0	30,987	0	30,987	35,092	-11,507	327,131	0.67	
Subtotal	18,350,063	4,159,112	22,509,175	5,146,607	614,242	5,760,849	1,381,618	7,142,468	1,527,345	2,210,074	33,389,062	68.42	
mgd equiv	37.61	8.52	46.13	10.55	1.26	11.81	2.83	14.64	3.13	4.53	68.42		
Santa Clara County													
Milpitas	1,172,370	864,527	2,036,897	419,633	372,697	792,330	114,066	906,396	382,435	515,912	3,841,640	7.87	
Mountain View	1,061,476	1,245,536	2,307,012	514,071	104,304	618,375	1,711	620,086	919,062	186,676	4,032,836	8.26	
Palo Alto	2,069,573	701,727	2,771,300	676,125	132,727	808,852	304,535	1,113,387	573,881	250,616	4,709,184	9.65	
Purissima Hills WD	746,898	0	746,898	0	0	0	45,485	45,485	4,814	2,013	799,210	1.64	
San Jose	83,263	671,231	754,495	140,935	510,985	651,920	28,774	680,694	444,662	139,222	2,019,073	4.14	
Santa Clara	1,766,722	1,793,859	3,560,581	2,613,054	666,130	3,279,184	399,705	3,678,889	0	253,325	7,492,795	15.36	
Stanford	164,076	259,447	423,523	871	66,001	66,872	142,408	209,280	59,001	22,420	714,224	1.46	
Sunnyvale	2,392,756	2,185,878	4,578,634	1,525,048	0	1,525,048	90,000	1,615,048	891,977	1,024,856	8,110,515	16.62	
Subtotal	9,457,135	7,722,205	17,179,340	5,889,737	1,852,844	7,742,581	1,126,684	8,869,264	3,275,833	2,395,040	31,719,477	65.00	
mgd equiv	19.38	15.83	35.21	12.07	3.80	15.87	2.31	18.18	6.71	4.91	65.00		
Alameda County													
Alameda CWD	7,488,034	3,244,599	10,732,633	2,015,736	1,150,933	3,166,669	626,996	3,793,665	2,037,116	1,342,917	17,906,331	36.70	
Hayward	2,402,249	1,212,541	3,614,790	499,219	780,829	1,280,048	456,427	1,736,475	814,846	688,412	6,854,523	14.05	
Subtotal	9,890,283	4,457,140	14,347,423	2,514,955	1,931,762	4,446,717	1,083,423	5,530,140	2,851,962	2,031,329	24,760,854	50.74	
mgd equiv	20.27	9.13	29.40	5.15	3.96	9.11	2.22	11.33	5.84	4.16	50.74		
Total	37,697,481	16,338,457	54,035,938	13,551,298	4,398,849	17,950,147	3,591,725	21,541,872	7,655,139	6,636,443	89,869,392	184.17	
mgd equiv	77.25	33.48	110.74	27.77	9.01	36.79	7.36	44.15	15.69	13.60	184.17		
*Single family amount includes multi-family. Percentage breakdown from prior FY was used to generate an estimated breakdown by customer class for East Palo Alto				† Dedicated Irrigation refers to separately metered irrigation usage and includes agriculture (except for CCWD)									
				‡ Non-Revenue water calculated as difference between total production and total consumption.									
Source: BAWSCA FY 2021-22 Annual Survey													

Table 4B: Total Water Use by Customer Class – FY 2021-22 (in ccf)

Member	Residential			Non-Residential					Dedicated Irrigation†	Non-Revenue Water‡	Total Consumption		
	Single Family	Multiple Family	Subtotal	Commercial	Industrial	Comm'l/Ind'l Subtotal	Gov't/Insti'l/Other	Subtotal			mgd	mgd	
San Mateo County													
Brisbane / GVMID	80,705	15,758	96,463	84,474	0	84,474	10,285	94,759	71,269		36,415	298,906	0.61
Burlingame	657,999	307,594	965,593	289,424	85,394	374,818	56,562	431,380	60,482		230,172	1,687,626	3.46
CWS - Bear Gulch	4,288,841	122,356	4,411,197	476,691	1,073	477,764	144,171	621,935	13,694		180,856	5,227,682	10.71
CWS - Mid-Peninsula	3,208,963	866,597	4,075,560	1,042,967	14,281	1,057,248	337,275	1,394,523	0		604,173	6,074,256	12.45
CWS - South SF	1,049,885	164,732	1,214,617	1,287,021	235,167	1,522,188	120,794	1,642,982	0		10,843	2,868,442	5.88
Coastside CWD	388,790	39,412	428,202	40,365	0	40,365	184,481	224,846	100,379		18,418	771,845	1.58
Daly City	1,472,983	598,394	2,071,377	309,873	3,173	313,046	70,286	383,332	59,754		565,544	3,080,007	6.31
East Palo Alto*	552,003	0	552,003	111,439	4,449	115,888	19,384	135,272	40,838		-23,279	704,834	1.44
Estero MID	443,275	624,904	1,068,179	134,085	24,623	158,708	21,665	180,373	482,115		156,742	1,887,409	3.87
Hillsborough	1,058,579	0	1,058,579	3,998	0	3,998	13,917	17,915	33,112		31,898	1,141,504	2.34
Menlo Park	383,769	127,490	511,259	242,643	179,865	422,508	135,806	558,314	124,289		1,261	1,195,123	2.45
Mid-Peninsula WD	646,820	190,017	836,837	128,857	29,900	158,757	33,109	191,866	85,783		58,437	1,172,923	2.40
Millbrae	407,617	144,774	552,391	70,805	0	70,805	18,731	89,536	67,232		191,355	900,514	1.85
North Coast CWD	668,351	138,555	806,906	90,075	0	90,075	56,286	146,361	52,299		79,071	1,084,637	2.22
Redwood City	1,774,287	780,580	2,554,867	536,612	39,772	576,384	86,787	663,171	619,822		331,715	4,169,575	8.54
San Bruno*	1,032,586	0	1,032,586	269,983	0	269,983	72,182	342,165	0		105,999	1,480,750	3.03
Westborough	234,610	37,949	272,559	30,987	0	30,987	0	30,987	35,092		-11,507	327,131	0.67
Subtotal	18,350,063	4,159,112	22,509,175	5,150,299	617,697	5,767,996	1,381,720	7,149,717	1,846,160		2,568,112	34,073,163	69.83
mgd equiv	37.61	8.52	46.13	10.55	1.27	11.82	2.83	14.65	3.78		5.26	69.83	
Santa Clara County													
Milpitas	1,172,370	864,527	2,036,897	419,633	372,697	792,330	114,066	906,396	805,639		516,452	4,265,384	8.74
Mountain View	1,061,476	1,245,536	2,307,012	514,799	104,304	619,103	1,778	620,881	1,085,804		208,077	4,221,774	8.65
Palo Alto	2,069,573	701,727	2,771,300	676,125	132,727	808,852	651,370	1,460,222	703,610		250,616	5,185,748	10.63
Purissima Hills WD	746,898	0	746,898	0	0	0	45,485	45,485	4,814		2,013	799,210	1.64
San Jose	83,263	671,231	754,495	140,935	709,028	849,963	28,957	878,920	708,871		139,222	2,481,508	5.09
Santa Clara	1,766,722	2,073,519	3,840,241	3,194,564	1,052,333	4,246,897	859,031	5,105,928	0		149,054	9,095,223	18.64
Stanford	164,076	259,447	423,523	871	66,001	66,872	154,952	221,824	554,495		27,451	1,227,293	2.52
Sunnyvale	2,392,756	2,185,878	4,578,634	1,525,048	0	1,525,048	90,000	1,615,048	1,370,146		680,690	8,244,518	16.90
Subtotal	9,457,135	8,001,865	17,459,000	6,471,975	2,437,090	8,909,065	1,945,639	10,854,704	5,233,379		1,973,576	35,520,658	72.79
mgd equiv	19.38	16.40	35.78	13.26	4.99	18.26	3.99	22.24	10.72		4.04	72.79	
Alameda County													
Alameda CWD	7,488,034	3,244,599	10,732,633	2,015,736	1,150,933	3,166,669	626,996	3,793,665	2,037,116		1,342,917	17,906,331	36.70
Hayward	2,402,249	1,212,541	3,614,790	499,219	780,829	1,280,048	456,427	1,736,475	825,279		688,412	6,864,956	14.07
Subtotal	9,890,283	4,457,140	14,347,423	2,514,955	1,931,762	4,446,717	1,083,423	5,530,140	2,862,395		2,031,329	24,771,287	50.76
mgd equiv	20.27	9.13	29.40	5.15	3.96	9.11	2.22	11.33	5.87		4.16	50.76	
Total	37,697,481	16,618,117	54,315,598	14,137,229	4,986,550	19,123,778	4,410,782	23,534,561	9,941,934		6,573,017	94,365,109	193.38
mgd equiv	77.25	34.06	111.31	28.97	10.22	39.19	9.04	48.23	20.37		13.47	193.38	
* Single family amount includes multi-family				† Dedicated Irrigation refers to separately metered irrigation usage and includes agriculture (except for CCWD)									
				‡ Non-Revenue water calculated as difference between total production and total consumption.									
Source: BAWSCA FY 2021-22 Annual Survey													

Table 4C: Number of Customer Accounts – FY 2021-22

Member	Residential			Commercial	Industrial	Ind/Comm Subtotal	Non-Residential		Dedicated Irrigation†	Total
	Single Family*	Multiple Family	Res Subtotal				Gov't, Other	Non-Res Subtotal		
San Mateo County										
Brisbane / GVMID	1,537	120	1,657	291	0	291	0	291	93	2,041
Burlingame	6,483	1,226	7,709	922	0	922	210	1,132	0	8,841
CWS - Bear Gulch	16,973	187	17,160	1,248	1	1,249	169	1,418	8	18,586
CWS - Mid-Peninsula	31,366	761	32,127	3,378	86	3,464	367	3,831	0	35,958
CWS - SSF	14,058	185	14,243	1,949	51	2,000	234	2,234	0	16,477
Coastside CWD	5,837	111	5,948	311	0	311	1,319	1,630	80	7,658
Daly City	20,097	1,893	21,990	830	0	830	222	1,052	163	23,205
East Palo Alto	3,668	0	3,668	145	28	173	145	318	53	4,039
Estero MID	4,535	2,652	7,187	183	54	237	264	501	532	8,220
Hillsborough	4,191	0	4,191	10	0	10	17	27	84	4,302
Menlo Park	3,361	205	3,566	178	218	396	352	748	139	4,453
Mid-Peninsula WD	7,299	204	7,503	414	48	462	131	593	91	8,187
Millbrae	5,739	280	6,019	282	0	282	138	420	99	6,538
North Coast CWD	11,201	301	11,502	351	0	351	326	677	94	12,273
Redwood City	19,360	1,717	21,077	1,719	53	1,772	945	2,717	666	24,460
San Bruno	9,493	1,068	10,561	726	3	729	83	812	130	11,503
Westborough WD	3,762	14	3,776	40	0	40	57	97	91	3,964
Subtotal	168,960	10,924	179,884	12,977	542	13,519	4,979	18,498	2,323	200,705
Santa Clara County										
Milpitas	12,426	1,754	14,180	526	224	750	546	1,296	662	16,138
Mountain View	13,040	2,292	15,332	1,124	321	1,445	53	1,498	1,062	17,892
Palo Alto	15,111	2,104	17,215	1,386	57	1,443	943	2,386	442	20,043
Purissima Hills WD	2,098	0	2,098	0	0	0	114	114	10	2,222
San Jose	1,158	281	1,439	176	289	465	45	510	388	2,337
Santa Clara	16,942	4,933	21,875	2,629	341	2,970	526	3,496	0	25,371
Stanford				Not Applicable						
Sunnyvale	23,749	1,774	25,523	1,909	0	1,909	172	2,081	941	28,545
Subtotal	84,524	13,138	97,662	7,750	1,232	8,982	2,399	11,381	3,505	112,548
Alameda County										
Alameda CWD	74,583	4,625	79,208	4,043	1,197	5,240	1,394	6,634	2,342	88,184
Hayward	31,097	1,252	32,349	1,650	1,220	2,870	249	3,119	1,447	36,915
Subtotal	105,680	5,877	111,557	5,693	2,417	8,110	1,643	9,753	3,789	125,099
Total	359,164	29,939	389,103	26,420	4,191	30,611	9,021	39,632	9,617	438,352
*Individually metered homes, townhouses, and condos				† Dedicated Irrigation refers to separately metered irrigation usage						
Source: BAWSCA FY 2021-22 Annual Survey										

5. Climatological Data

Table 5A: Climatological Data

Rainfall					
Precipitation (Inches)					
	Redwood City*	San Jose	Newark	SF Airport	
Historical Avg (1906-2022)					
	18.7	12.7	14.2	19.4	
Recent Past					
FY 2016-17	31.5	18.4	19.8	30.9	
FY 2017-18	11.6	9.2	9.9	14.1	
FY 2018-19	20.3	16.4	16.1	23.3	
FY 2019-20	9.5	7.3	7.1	9.2	
FY 2020-21	6.3	5.3	1.9	7.3	
FY 2021-22	16.0	7.3	11.2	18.2	
FY 2021-22 Deviation from Historical Avg					
	-2.7	-5.4	-3.1	-1.3	
Temperature					
Average Maximum Temperature (Degrees F)					
	Redwood City*	San Jose	Newark	SF Airport	
Historical Avg (1948-2022)					
Annual	71.1	70.4	69.2	65.5	
Summer**	81.5	80.2	77.1	72.4	
Recent Past					
2016-17 Annual	70.1	71.4	68.6	66.2	
Summer**	79.1	81.0	76.3	71.8	
2017-18 Annual	71.8	73.5	69.9	67.7	
Summer**	82.1	83.9	79.1	75.0	
2018-19 Annual	70.1	71.3	68.2	66.0	
Summer**	79.0	81.1	76.2	70.3	
2019-20 Annual	71.5	72.8	68.1	68.5	
Summer**	81.4	82.3	76.4	75.7	
2020-21 Annual	71.7	72.9	69.9	68.6	
Summer**	82.1	83.3	78.3	75.6	
2021-22 Annual	71.1	72.9	72.1	67.0	
Summer**	79.8	81.2	80.3	72.9	
FY 2021-22 Deviation From Historical Avg					
Annual	0.0	2.5	2.9	1.5	
Summer**	-1.7	1.0	3.2	0.6	
*Values for Palo Alto were sometimes used in cases where Redwood City values were absent or incomplete.					
**July, August, September					
Source: Western Regional Climate Center					

Figure 5A: Total Annual Precipitation

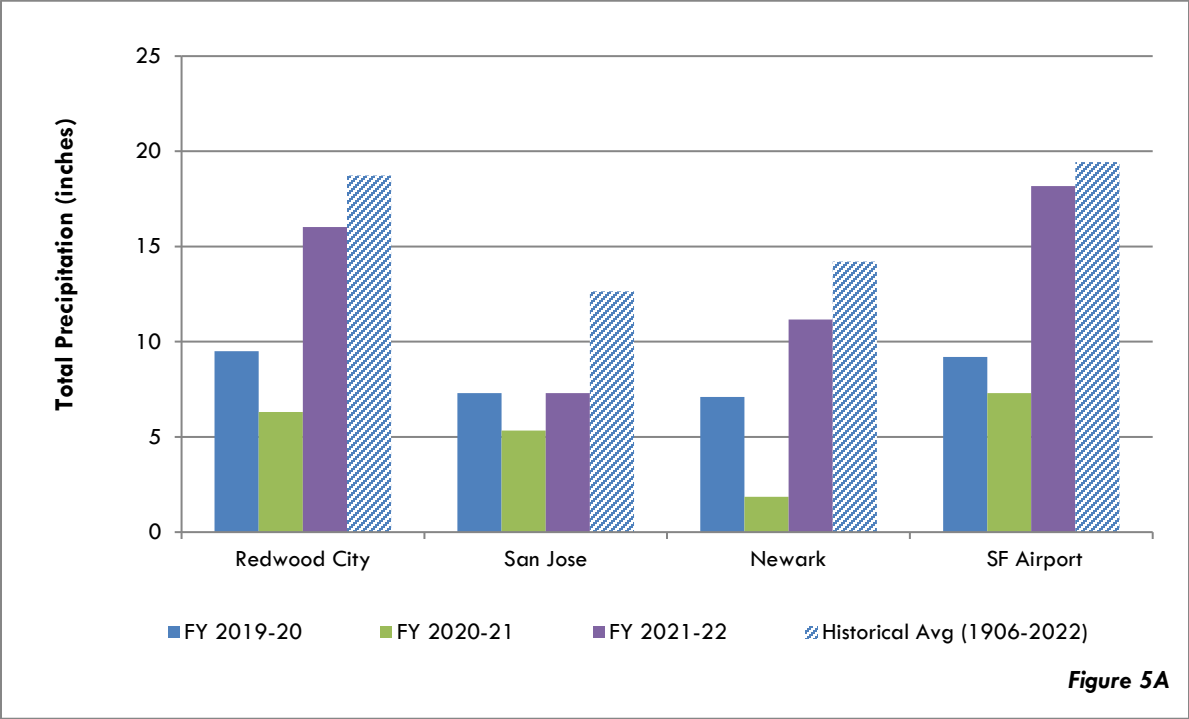


Figure 5A

Figure 5B: Average Maximum Daily Temperature

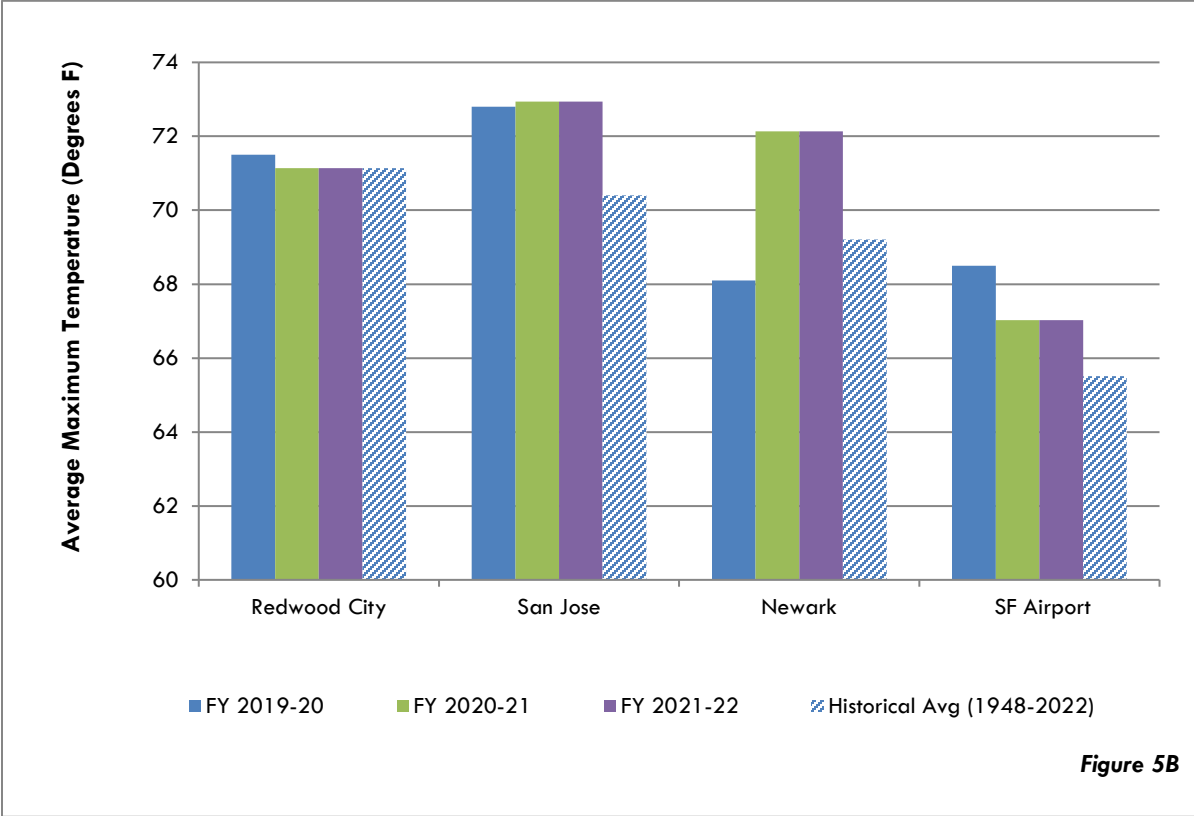


Figure 5B

6. Service Area Populations

Table 6: BAWSCA Service Area Populations

												Projections				
	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2025-26	FY 2030-31	FY 2035-36	FY 2040-41	FY 2045-46
San Mateo County																
Brisbane/GVMID	4,282	4,282	4,282	4,282	4,562	4,156	4,573	4,587	4,657	4,598	4,851	5,134	5,417	5,702	5,987	6,272
Burlingame	30,282	30,282	30,282	32,993	31,109	31,109	31,109	31,109	31,109	32,407	32,407	34,592	36,024	37,457	38,889	40,322
CWS - Bear Gulch	57,845	58,098	58,352	59,883	59,883	60,513	60,719	60,827	60,827	60,814	60,903	60,907	61,255	61,778	62,302	62,835
CWS - Mid-Peninsula	128,445	128,037	129,037	133,679	133,679	135,455	135,943	138,419	137,217	137,487	137,490	139,142	142,138	144,913	147,802	150,974
CWS - South SF	58,815	59,567	60,172	61,223	61,223	61,769	62,039	62,894	62,894	63,319	63,702	65,539	66,028	66,759	69,100	71,550
Coastside CWD	17,094	16,900	16,652	16,668	16,704	16,704	16,776	16,811	18,738	18,789	18,839	18,991	19,234	19,371	19,472	19,573
Daly City	102,043	102,820	104,462	108,510	109,139	109,139	109,139	109,139	106,638	106,638	107,197	118,000	122,000	129,000	136,000	143,000
East Palo Alto	25,215	25,927	25,927	29,143	24,424	26,181	26,181	26,181	26,181	25,935	25,935	27,315	28,589	30,062	31,646	33,230
Estero MID	36,100	36,567	37,000	37,088	37,165	37,518	37,687	37,687	37,687	37,687	33,056	36,932	37,602	38,848	40,107	41,366
Guadalupe Valley	Included with Brisbane															
Hillsborough	10,825	10,850	10,860	10,869	10,869	10,869	10,869	10,869	10,869	11,397	11,397	11,940	12,783	12,783	12,783	12,783
Menlo Park	14,198	14,198	16,066	15,342	16,066	16,066	17,071	17,648	18,224	19,297	21,340	23,383	25,166	27,675	30,184	33,174
Mid-Peninsula WD	26,270	26,270	26,270	26,730	26,730	26,924	26,924	26,924	26,924	27,560	29,260	31,059	31,369	32,416	33,499	34,496
Millbrae	21,532	21,532	21,532	21,532	22,848	22,848	22,848	23,168	22,832	22,848	22,277	22,846	26,774	26,657	27,081	27,505
North Coast CWD	40,000	39,000	39,000	40,000	40,000	40,000	40,000	40,000	38,546	38,331	37,533	38,790	39,380	39,600	40,510	41,330
Redwood City	86,647	86,647	86,427	87,059	87,023	87,023	87,023	87,023	90,518	89,037	89,037	93,765	97,128	100,614	104,247	107,947
San Bruno	41,420	41,114	43,798	43,798	44,409	44,409	44,409	44,409	44,409	44,409	44,409	45,600	48,600	51,200	53,400	55,800
Skyline	Included with CWS - Bear Gulch															
Westborough WD	13,259	13,259	13,259	13,260	14,050	14,050	12,703	12,703	12,703	13,466	13,486	13,587	13,688	13,790	14,089	14,388
Subtotal	714,272	715,350	723,378	742,060	739,883	744,733	746,013	750,398	750,973	754,019	753,119	787,522	813,175	838,625	867,098	896,545
Santa Clara County																
Milpitas	67,804	67,894	69,783	70,800	75,521	77,528	78,106	74,865	77,961	77,961	80,839	90,400	98,100	106,000	113,200	120,356
Mountain View	73,774	73,656	75,280	76,413	75,430	77,801	79,027	79,492	79,772	82,814	81,764	91,810	98,080	104,350	110,630	116,900
Palo Alto	64,538	66,368	66,642	66,152	68,020	66,930	67,320	67,709	67,082	66,573	67,973	72,297	75,445	78,593	81,741	84,889
Purissima Hills WD	6,120	6,127	6,142	6,140	6,150	6,150	6,150	6,150	6,150	6,822	6,150	6,150	6,165	6,180	6,195	6,220
San Jose**	14,658	15,178	15,286	15,948	9,059	13,733	16,084	16,032	35,468	37,991	40,514	48,082	60,695	85,043	101,637	103,960
Santa Clara	118,263	119,311	118,459	120,973	120,973	123,752	129,604	129,604	129,604	130,746	130,746	137,215	142,425	151,715	159,500	167,285
Stanford*	28,792	29,401	29,635	30,486	30,943	31,558	32,218	32,578	32,075	13,629	32,235	34,234	36,374	38,642	40,717	42,857
Sunnyvale	142,896	145,973	147,055	148,028	148,372	149,831	153,389	155,567	156,503	153,827	156,503	154,671	161,314	167,957	174,600	181,243
Subtotal	516,845	523,908	528,282	534,940	534,468	547,283	561,898	561,997	584,615	570,363	596,724	634,859	678,598	738,480	788,220	823,710
Alameda County																
Alameda CWD	331,000	336,000	340,000	344,000	348,000	350,538	356,000	356,160	356,823	358,246	344,855	354,000	363,000	371,000	382,000	419,000
Hayward	147,113	148,756	151,037	152,889	158,985	158,985	160,500	160,500	160,500	160,311	160,591	181,700	202,600	225,800	251,800	280,700
Subtotal	478,113	484,756	491,037	496,889	506,985	509,523	516,500	516,660	517,323	518,557	505,446	535,700	565,600	596,800	633,800	699,700
Total	1,709,230	1,724,014	1,742,697	1,773,889	1,781,336	1,801,539	1,824,411	1,829,055	1,852,911	1,842,939	1,855,289	1,958,081	2,057,373	2,173,905	2,289,118	2,419,955
*San Jose population adjusted in FY 2015-16 based on State methodology required for calculating service area population for the 2015 Urban Water Management Plan. Population listed may not represent an accurate population estimate for the North San Jose sub-area of the San Jose Municipal Water System and does not include recent new multi-family development.																
**In FY 2019-20 San Jose engaged a consultant (Brown & Caldwell) to conduct a population study of the entire Muni Water Service Area (north and south). The methodology employed by the consultant relies on more granular data than previous population estimations. The new methodology was reviewed and approved by the Dept. of Water Resources, as this will impact UWMP/SBX7-7 reporting.																
*Stanford FY 2020-21 service year population lower than normal due to many faculty, staff, and students being off campus due to COVID-19.																
Source: BAWSCA Annual Surveys																

7. Current Water Use Per Capita

Figure 7A-1: Residential Per Capita Consumption - FY 2021-22 (in gpcd)

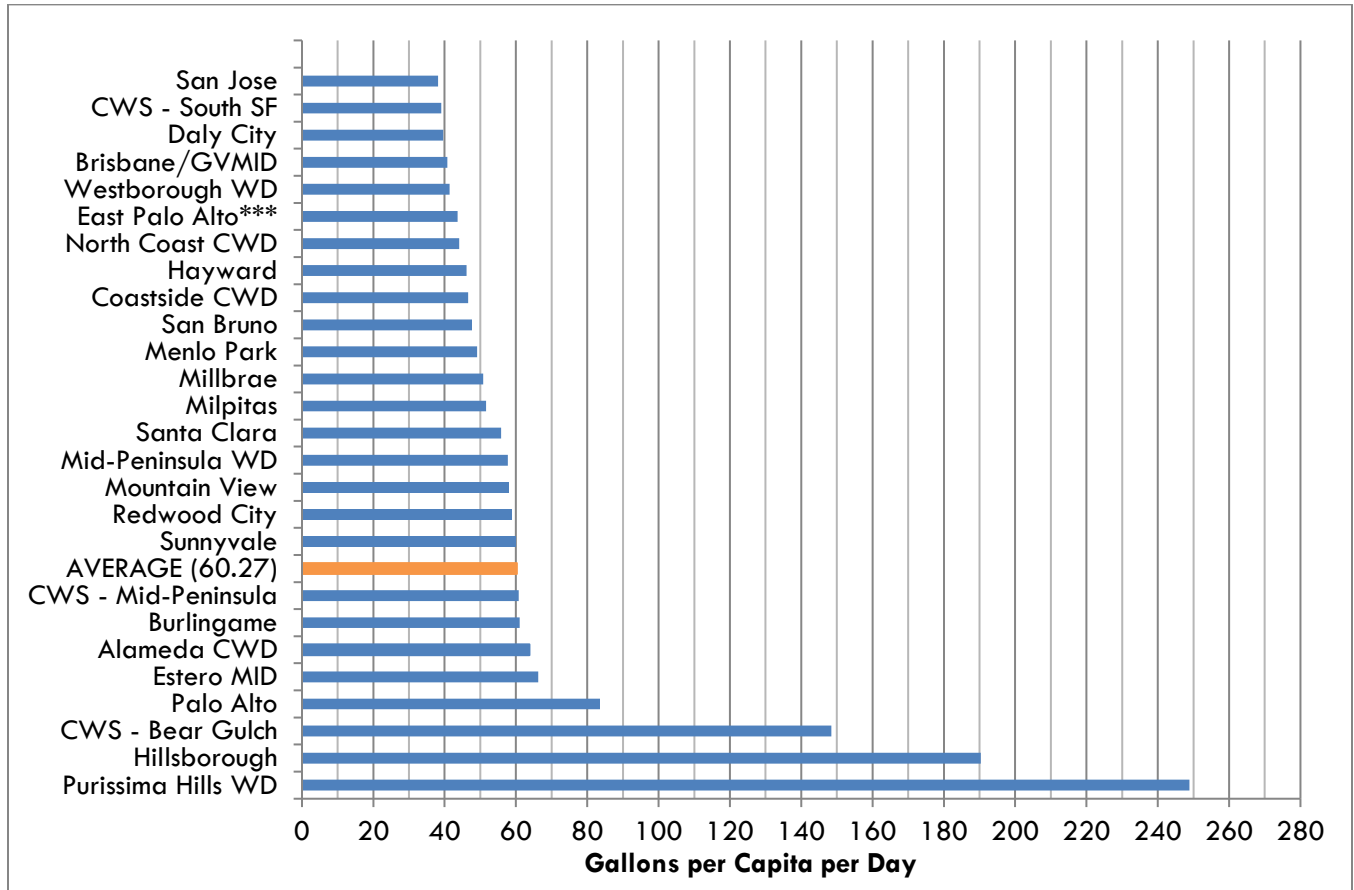


Figure 7A-2: Residential Per Capita Consumption (in gpcd) Distributed by Percentage of Population- FY 2021-22

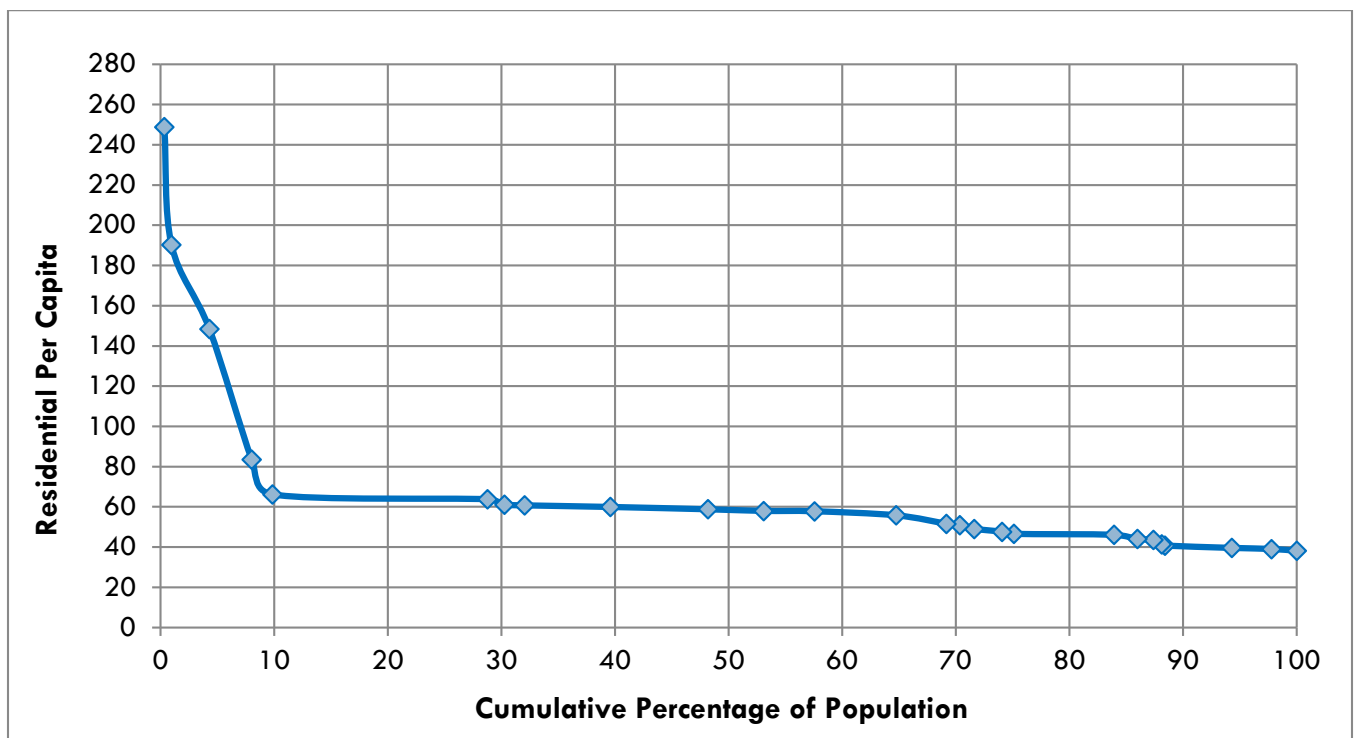


Figure 7B: Gross Per Capita Consumption(in gpcd) – FY 2021-22

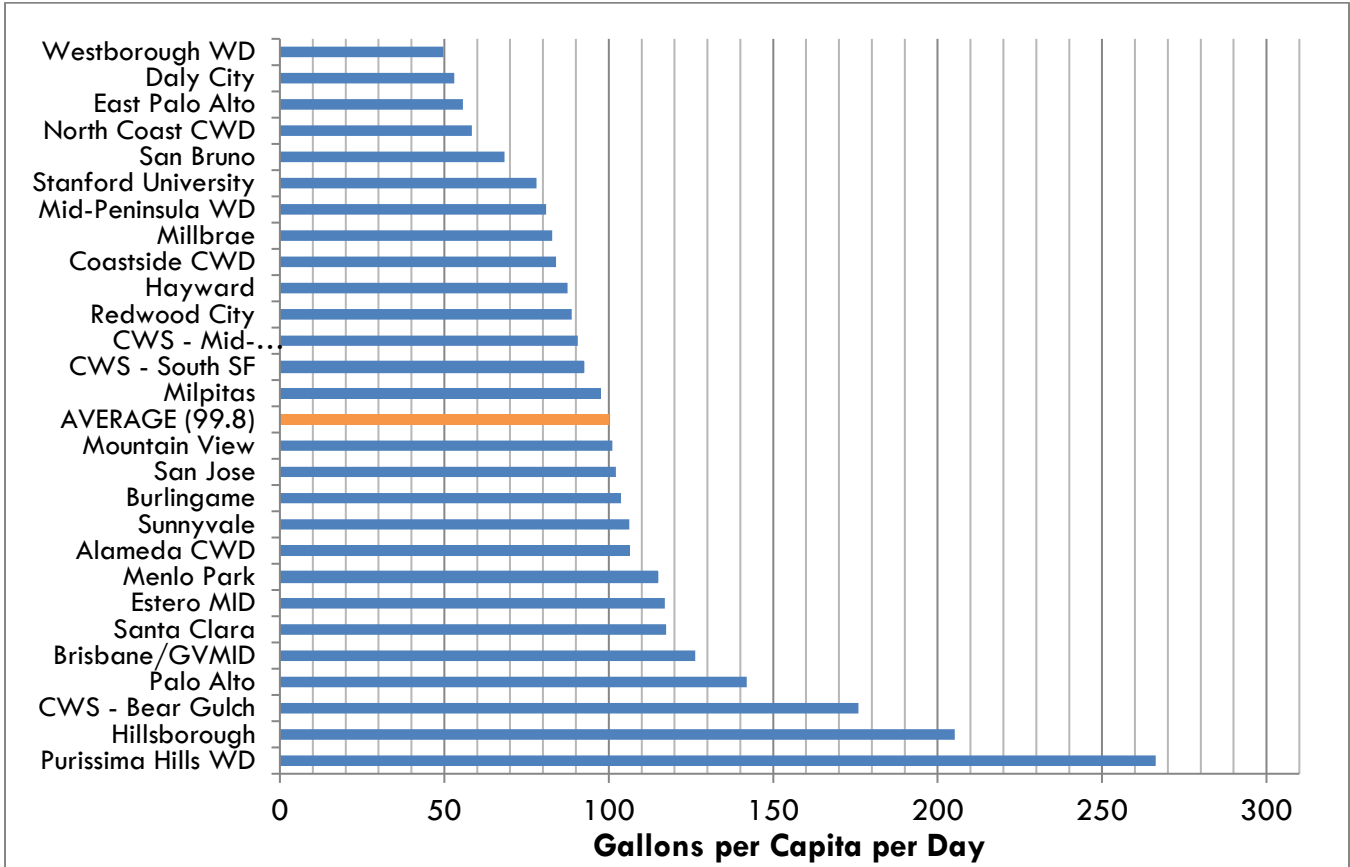


Figure 7C: Historical BAWSCA/BAWUA Per Capita Consumption (in gpcd) - 1975-96 to Present

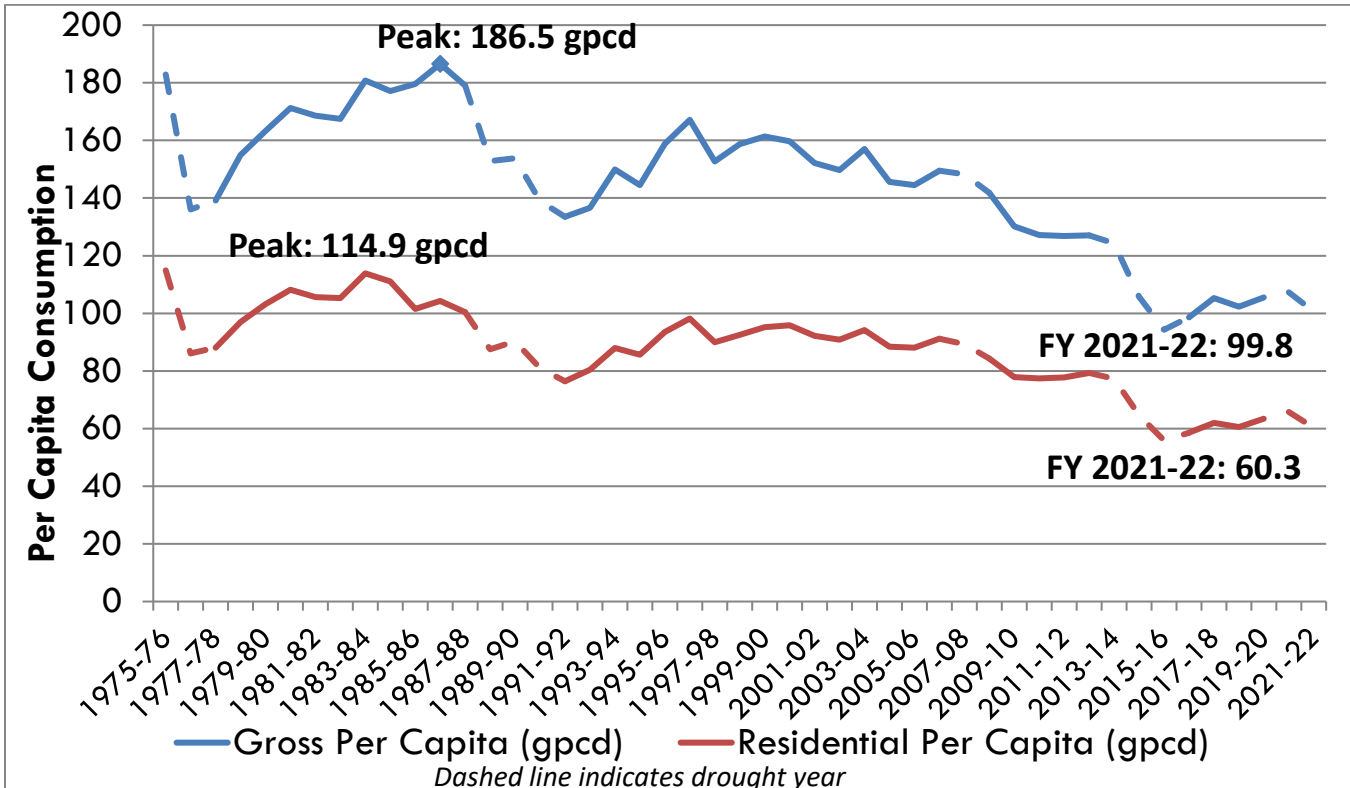


Table 7A: Residential Per Capita Consumption and Single-Family Average Monthly Use Among BAWSCA Members - FY 2021-22

			*Residential Per Capita Consumption	**Single-Family Average Monthly Use
	Service Area	Residential Consumption*		
Member	Population	(ccf)	(gpcd)	(ccf)
San Jose	40,514	754,495	38	6.0
CWS - South SF	63,702	1,214,617	39	6.2
Daly City	107,197	2,071,377	40	6.1
Brisbane/GVMID	4,851	96,463	41	4.4
Westborough WD	13,486	272,559	41	5.2
East Palo Alto***	25,935	552,003	44	12.5
North Coast CWD	37,533	806,906	44	5.0
Hayward	160,591	3,614,790	46	6.4
Coastside CWD	18,839	428,202	47	5.6
San Bruno	44,409	1,032,586	48	9.1
Menlo Park	21,340	511,259	49	9.5
Millbrae	22,277	552,391	51	5.9
Milpitas	80,839	2,036,897	52	7.9
Santa Clara	130,746	3,560,581	56	8.7
Mountain View	81,764	2,307,012	58	6.8
Mid-Peninsula WD	29,260	836,837	59	7.4
Redwood City	89,037	2,554,867	59	7.6
Sunnyvale	156,503	4,578,634	60	8.4
CWS - Mid-Peninsula	137,490	4,075,560	61	8.5
Burlingame	32,407	965,593	61	8.5
Alameda CWD	344,855	10,732,633	64	8.4
Estero MID	33,056	1,068,179	66	8.1
Palo Alto	67,973	2,771,300	84	11.4
CWS - Bear Gulch	60,903	4,411,197	148	21.1
Hillsborough	11,397	1,058,579	190	21.0
Purissima Hills WD	6,150	746,898	249	29.7
Agency Totals	1,823,054	53,612,415		
Average Residential Per Capita Consumption			60.27	
Average Single Family Monthly Use				9.4
*Includes multi-family and single family accounts. Excludes recycled water.				
**Individually metered single family homes, townhouses, and condos.				
***East Palo Alto reports multi-family with single family use.				
Notes: Due to its unique service area, Stanford is excluded.				
Source: BAWSCA FY 2021-22 Annual Survey				

Table 7B: Gross Per Capita Consumption Among BAWSCA Members - FY 2021-22

			Gross
	Service	*Total	Per Capita
	Area	Consumption	Consumption
Member	Population	(ccf)	(gpcpd)
Westborough WD	13,486	327,131	49.7
Daly City	107,197	2,772,520	53.0
East Palo Alto	25,935	704,834	55.7
North Coast CWD	37,533	1,068,893	58.4
San Bruno	44,409	1,480,750	68.3
Stanford University	32,235	1,227,293	78.0
Mid-Peninsula WD	29,260	1,172,923	82.1
Millbrae	22,277	900,514	82.8
Coastside CWD	18,839	771,845	84.0
Hayward	160,591	6,854,523	87.5
Redwood City	89,037	3,855,958	88.8
CWS - Mid-Peninsula	137,490	6,074,256	90.5
CWS - South SF	63,702	2,868,442	92.3
Milpitas	80,839	3,841,640	97.4
Mountain View	81,764	4,032,836	101.1
San Jose**	40,514	2,019,073	102.1
Burlingame	32,407	1,640,372	103.7
Sunnyvale	156,503	8,110,515	106.2
Alameda CWD	344,855	17,906,331	106.4
Menlo Park	21,340	1,195,123	114.8
Estero MID	33,056	1,887,409	117.0
Santa Clara	130,746	7,492,795	117.4
Brisbane/GVMID	4,851	298,906	126.3
Palo Alto	67,973	4,709,184	142.0
CWS - Bear Gulch	60,903	5,227,682	175.9
Hillsborough	11,397	1,141,504	205.3
Purissima Hills WD	6,150	799,210	266.3
Totals	1,855,289	90,382,461	
		Average gpcpd	99.8
		Median of Agencies	97.4
*Exclusive of recycled water; inclusive of unaccounted for water.			
**Service area predominantly commercial/industrial.			
Source: BAWSCA FY 2021-22 Annual Survey			

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

Year	Service Area Population*	Water Usage** (mgd)	Gross Per Capita (gpcd)	Residential Per Capita (gpcd)
1975-76	1,162,143	212.5	182.9	114.9
1976-77	1,176,655	160.1	136.0	86.0
1977-78	1,186,121	165.1	139.2	88.1
1978-79	1,192,776	184.7	154.9	96.9
1979-80	1,205,079	196.8	163.3	103.2
1980-81	1,216,827	208.3	171.2	108.1
1981-82	1,229,452	207.2	168.5	105.6
1982-83	1,248,928	209.2	167.5	105.3
1983-84	1,294,730	234.1	180.8	113.9
1984-85	1,310,389	232.2	177.2	111.1
1985-86	1,378,899	247.7	179.6	101.5
1986-87	1,397,010	260.6	186.5	104.3
1987-88	1,420,326	254.3	179.1	100.4
1988-89	1,427,372	218.1	152.8	87.5
1989-90	1,456,522	224.0	153.8	90.3
1990-91	1,470,633	204.4	139.0	81.0
1991-92	1,474,042	196.8	133.5	76.4
1992-93	1,496,205	204.3	136.6	80.4
1993-94	1,516,040	227.2	149.9	88.0
1994-95	1,529,829	221.1	144.5	85.7
1995-96	1,536,586	244.0	158.8	93.5
1996-97	1,556,641	260.2	167.1	98.2
1997-98	1,581,970	241.5	152.7	90.0
1998-99	1,602,708	254.4	158.7	92.5
1999-00	1,620,307	261.5	161.4	95.2
2000-01	1,634,308	261.0	159.7	95.9
2001-02	1,653,618	251.5	152.1	92.2
2002-03	1,645,338	246.3	149.7	90.8
2003-04	1,651,678	259.4	157.1	94.2
2004-05	1,646,804	239.7	145.6	88.4
2005-06	1,656,543	239.4	144.5	88.1
2006-07	1,674,100	250.2	149.4	91.1
2007-08	1,690,931	250.7	148.2	89.3
2008-09	1,705,837	242.0	141.9	84.4
2009-10	1,719,028	223.8	130.2	77.8
2010-11	1,701,756	216.4	127.2	77.4
2011-12	1,709,230	216.8	126.8	77.7
2012-13	1,724,014	219.1	127.1	79.3
2013-14	1,742,697	216.7	124.3	77.3
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
2017-18	1,825,063	192.0	105.2	62.0
2018-19	1,827,189	187.1	102.3	60.5
2019-20	1,852,911	195.5	105.5	63.4
2020-21	1,842,939	197.7	107.3	65.8
2021-22	1,855,289	185.2	99.8	60.3

*All BAWUA/BAWSCA agencies reporting, including Stanford.

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

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

Source: BAWUA/BAWSCA Annual Surveys / Historical Data Files

8. Current Residential Water Bills

Figure 8A: Single Family Water Bills Based on Average Monthly Use Using Rates in Effect for FY 2021-22

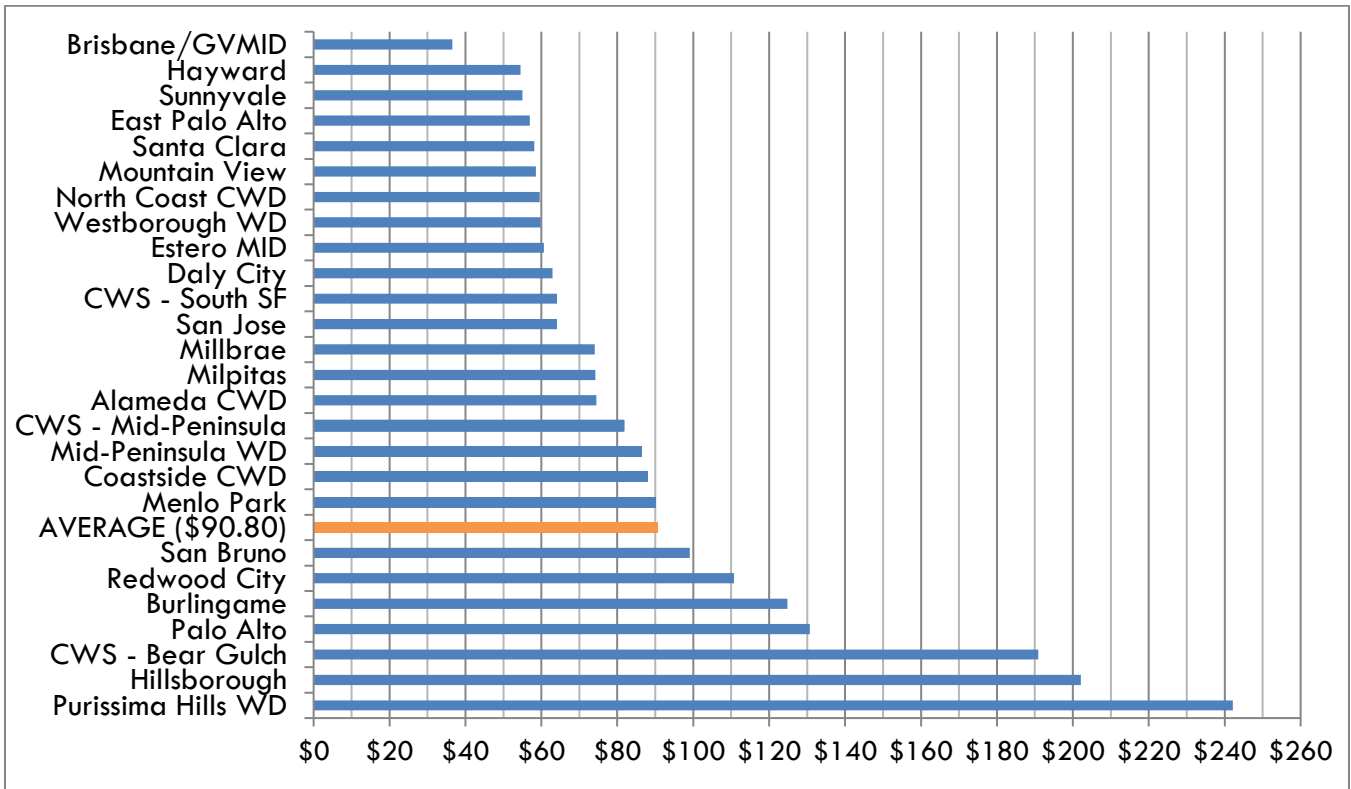


Figure 8B: Historical and Current SF RWS Wholesale Water Rates and BAWSCA Bond Surcharges FY 1985-85 to Present

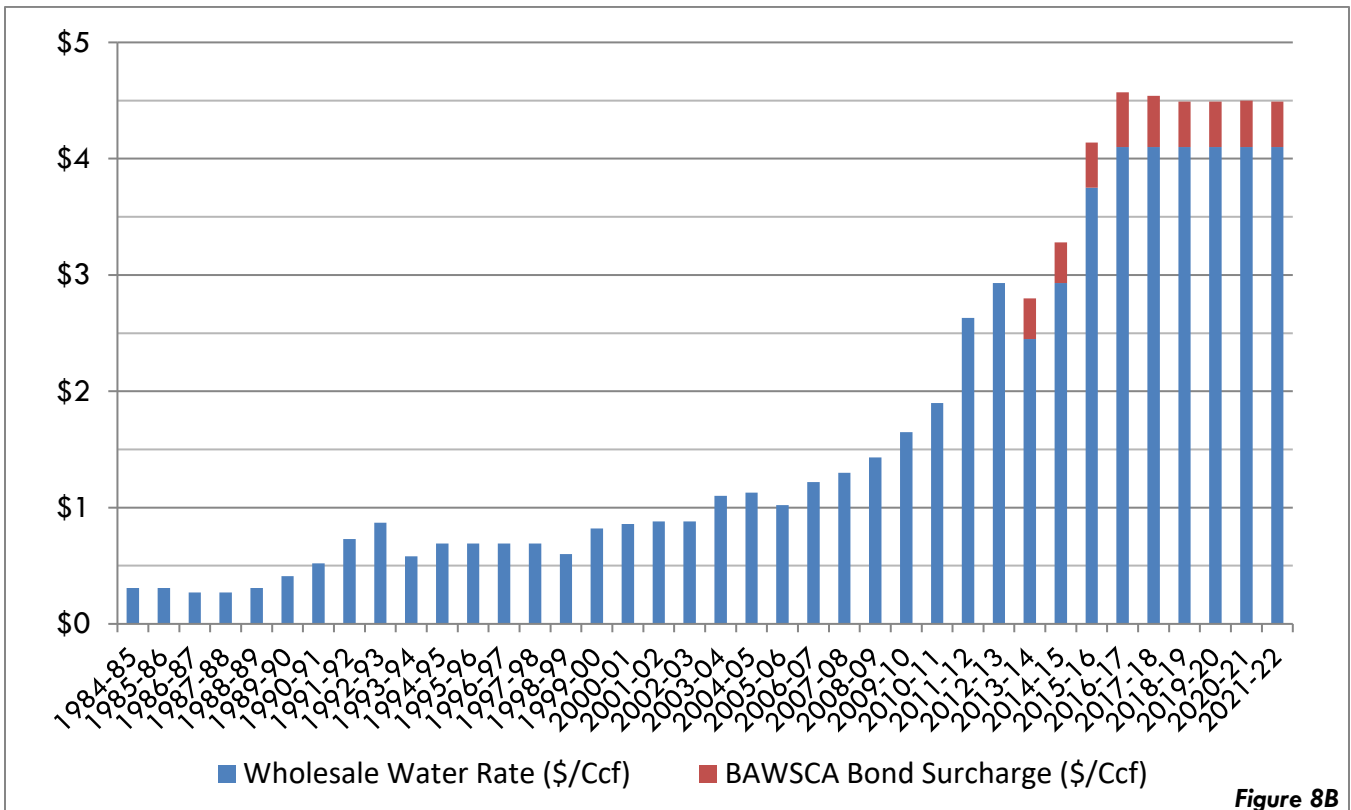


Figure 8B

Table 8A: Single Family Water Bills* Based on Average Monthly Use for 2021-22, Using Rates in Effect for FY 2021-22.

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
Brisbane/GVMID	4.4		\$36.53
Hayward	6.4		\$54.52
Sunnyvale	8.4		\$55.03
East Palo Alto	12.5		\$56.93
Santa Clara	8.7		\$58.14
Mountain View	6.8		\$58.53
North Coast CWD		5.0	\$59.56
Westborough WD		5.2	\$59.83
Estero MID		8.1	\$60.62
Daly City	6.1		\$62.96
CWS - South SF		6.2	\$64.08
San Jose	6.0		\$64.09
Millbrae	5.9		\$74.06
Milpitas	7.9		\$74.27
Alameda CWD		8.4	\$74.51
CWS - Mid-Peninsula		8.5	\$81.65
Mid-Peninsula WD		7.4	\$86.51
Coastside CWD		5.6	\$88.14
Menlo Park	9.5		\$90.18
San Bruno	9.1		\$99.08
Redwood City	7.6		\$110.76
Burlingame	8.5		\$124.82
Palo Alto	11.4		\$130.70
CWS - Bear Gulch		21.1	\$190.91
Hillsborough	21.0		\$202.14
Purissima Hills WD		29.7	\$242.17
	8.8	10.5	\$90.80
* 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 2021-22 Annual Survey			

Table 8B: Single Family Water Bills* Based on Average Monthly Use for FY 2021-22, Using Rates in Effect for FY 2021-22**Inclusive of Service Charge (1 of 3)**

Member/ Average Monthly Use (Units)	Billing Cycle	Service Charge	Rate per ccf	Rate Blocks (ccf)			Total Monthly Bill	Effective:	Remarks
Alameda CWD 8.4	2	\$58.94	\$5.38				\$74.51	Effective:	3/1/2022
Brisbane/Guadalupe Valley MID 4.4	2	\$22.67	\$5.19	1	-	3	\$36.53	Effective:	2012-10-15
			\$7.00	4	-	8			
			\$8.69	9	-	16			
			\$11.05	17	+				
Burlingame 8.5	2	\$84.03	\$9.79	0.0	-	4000.0	\$124.82	Effective:	2022-01-01
			\$10.98	4001.0	-	8000.0			
			\$12.18	8001.0	-	16000.0			
			\$13.38	16001.0	-	24000.0			
			\$14.58	24001.0	+				
CWS - Bear Gulch 21.1	1	\$31.70	\$6.83	1	-	12	\$190.91	Effective:	08/01/2022
			\$8.53	13	-	29			
			\$12.80	29	+				
CWS - Mid Peninsula 8.5	1	\$23.33	\$6.55	0	-	7	\$81.65	Effective:	08/01/2022
			\$8.18	8	-	10			
			\$12.27	10	+				
CWS - South San Francisco 6.2	1	\$23.33	\$6.55	1	-	7	\$64.08	Effective:	08/01/2022
			\$8.18	8	-	10			
			\$12.27	10	+				
Coastside CWD 5.6	1	\$31.87	\$10.14	1	-	4	\$88.14	Effective:	2022-1-1
			\$14.83	5	-	8			
			\$17.94	9	+				
Daly City 6.1	2	\$49.69	\$6.24	0	-	13	\$62.96	Effective:	7/1/2021
			\$8.26	14	26				
			\$8.68	27	+				
East Palo Alto 12.5	1	\$17.79	\$7.66				\$56.93	Effective:	2022-1-1
Estero MID 8.1	2	\$24.80	\$5.92	0	-	20	\$60.62	Effective:	1969-12-31
			\$6.55	20	+				

* Average single family use among BAWSCA agencies varies from 4.4 to 29.7 units per month. 1 unit = 1 ccf. Includes individually metered single family homes, townhouses, and condos. It is calculated by dividing single family water use (Table 4A) by the number of single family accounts (Table 4B); divided by 12.

**Table 8B: Single Family Water Bills* Based on Average Monthly Use for FY 2021-22, Using Rates in Effect for FY 2021-22
Inclusive of Service Charge (2 of 3)**

Hayward	2	\$31.28	\$6.04	1	-	8	\$54.52	Effective:	10/1/2021
6.4	5/8" meter		\$7.18	9	-	18			
			\$8.82	18	+				
Hillsborough	2	\$141.48	\$6.16	0	-	20	\$202.14	Effective:	2021-01-01
21.0	Up to 3/4" Meter		\$7.82	20	-	44			
			\$10.74	44	-	70			
			\$16.40	70	+				
Menlo Park	1	\$27.58	\$5.09	0	-	8	\$90.18	Effective:	7/1/2021
9.5	5/8" and 3/4"		\$6.82	8	+				
	capital surcharge		\$1.21						
Mid-Peninsula WD	1	\$28.00	\$5.86	0	-	2	\$86.51	Effective:	2019-07-01
7.4	5/8"		\$8.69	3	-	9			
			\$10.60	10	-	22			
			\$12.50	55	+				
Millbrae	2	\$25.00	\$10.40				\$74.06	Effective:	2022-1-1
5.9									
Milpitas	2	\$32.17	\$7.40				\$74.27	Effective:	2021-07-01
7.9	5/8"								
Mountain View	2	\$15.75	\$5.32	0	-	3	\$58.53	Effective:	2021-07-01
6.8	All single-family accounts		\$7.09	3	-	15			
			\$11.34	15	+				
North Coast CWD	2	\$53.48	\$6.60	0	-	5	\$59.56	Effective:	1/1/2021
5.0			\$7.86	6	-	10			
			\$13.53	11	-	19			
			\$22.72	20	+				
Palo Alto	1	\$20.25	\$6.66	0	-	6	\$130.70	Effective:	2019-07-01
11.4	5/8" Meter		\$10.07	7	+	7			
Purissima Hills WD	1	\$32.18	\$5.70	1	-	10	\$242.17	Effective:	1969-12-31
29.7	3/4" meter		\$7.67	11	-	29			
			\$10.89	30	-	58			
			\$14.14	59	-	9999			
			\$0.00	0	+				

* 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 2021-22, Using Rates in Effect for FY 2021-22

Inclusive of Service Charge (3 of 3)

Redwood City	2	\$59.04	\$6.13	0	-	8	\$110.76	Effective:	2018-07-01
7.6			\$7.35	9	-	20			
			\$10.20	21	-	40			
			\$13.45	41	+				
San Bruno	2	\$26.66	\$9.46	0	-	10	\$99.08	Effective:	7/1/2021
9.1	3/4 inch meter size		\$11.32	11	-	20			
			\$15.05	21	+				
San Jose MWD-N	2	\$61.78	\$5.54				\$64.09	Effective:	2021-07-01
6.0	5/8" and 3/4" meters.								
Santa Clara	1	\$19.63	\$6.69				\$58.14	Effective:	2021-07-01
8.7	5/8" and 3/4" meters.								Service charge is minimum
Sunnyvale	2	\$28.52	\$4.46	0	-	5	\$55.03	Effective:	2021-07-01
8.4	5/8 x 3/4" meter		\$5.44	6	+				
Westborough WD	2	\$44.00	\$7.28				\$59.83	Effective:	2022-1-1
5.2									

* Average single family use among BAWSCA agencies varies from 4.5 to 28.8 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.

Summary Billing Information		Average							
	**Average	Monthly	Service						
	Monthly	Bill	Charge						
All BAWSCA Agencies	\$90.80	\$24.40							
Municipal Agencies Only	\$86.39	\$24.29							
Special Districts / Private	\$96.81	\$24.54							
** Inclusive of service charge									
Source: BAWSCA FY 2021-22 Annual Survey									

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

Year	Wholesale Water Rate (\$/Ccf)	BAWSCA Bond 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
2017-18	\$ 4.10	\$ 0.44
2018-19	\$ 4.10	\$ 0.39
2019-20	\$ 4.10	\$ 0.39
2020-21	\$ 4.10	\$ 0.40
2021-22	\$ 4.10	\$ 0.39

*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

The Alameda County Water District (ACWD) service area includes the cities of Fremont, Newark, Union City, and southern portions of the City of Hayward. Currently, ACWD provides retail water service predominantly within the Cities of Fremont, Newark, and Union City, and a small number of parcels outside of ACWD's service area through agreements.

Profile

Area Size	104.8 sq. miles
Service Population	344,855
Number of Accounts	88,184
Number of SF RWS Connections	8
Connections to SF RWS Mains	BDPL 1, 2, 3, 4 and 5
Avg. Day Demand (mgd)	36.70
Avg. Day Purchases from SF RWS (mgd)	9.48
% Demand Met with SF RWS Supplies	25.83%
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 is currently operating one surface

water treatment plant that can treat SWP imports 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 FY 10/11 - 19/20 period, 37% 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 21% 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 42%) of the distribution system supplies.

Water Supply and Demand

Supply by Source	Actual FY 18-19 (ccf)	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)
San Francisco Water	3,798,529	3,840,640	4,585,161	4,625,134
State Water Project	6,030,448	5,546,495	7,336,376	5,412,329
Desalinated Water	2,907,621	3,764,574	3,733,289	3,208,556
Local Groundwater	3,347,726	3,427,942	3,583,690	3,444,116
Surface Water	1,982,415	2,320,887	231,304	1,216,196
Recycled Water	0	0	0	0
Total	18,066,739	18,900,527	19,469,820	17,906,331
mgd equivalent	37.02	38.73	39.90	36.70

Demand by Sector

Residential	10,500,526	11,131,726	11,654,792	10,732,633
Commercial/Industrial	3,067,959	3,013,144	3,055,890	3,166,669
Other	683,769	548,262	501,310	626,996
Dedicated Irrigation	1,909,035	2,358,131	2,478,129	2,037,116
Non-Revenue Water	1,905,450	1,849,275	1,779,699	1,342,917
Total	18,066,739	18,900,527	19,469,820	17,906,331
mgd equivalent	37.02	38.73	39.90	36.70

Per Capita Use	Actual FY 18-19 (gpcpd)	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)
Residential	60	64	67	64
Gross	92	108	111	106

Storage Reservoirs

Designation	Capacity (gallons)	Designation	Capacity (gallons)
Alameda	16,250,000	Mayhew	4,300,000
Appian	780,000	Middlefield	7,230,000
Avalon	2,700,000	Ohlone	1,500,000
Canyon Heights	510,000	Patterson	14,210,000
Decoto	14,550,000	Vineyard Heights	540,000
Hidden Valley	2,000,000	Whitfield	20,400,000
		Total	84,970,000

ACWD Engineering Report, 2011.

Water Treatment Facilities

Designation	Capacity (mgd)	Status	Designation	Capacity (mgd)	Status
WTP #2	22	Active	Mission San Jose WTP	3.2	Inactive
Blending Facility	48	Active	Newark Desalination Facility	12.5	Active
		70	Total	85.7	

Wells

Name	Capacity (mgd)	Status	Name	Capacity (mgd)	Status
Mowry 1	1.4	Active	PT 1	3.4	Active
Mowry 2	3.2	Active	PT 2	3.4	Active
Mowry 3	3.2	Active	PT 3	3.4	Active
Mowry 4	3.0	Active	PT 4	3.4	Active
Mowry 6	3.3	Active	PT 5	3.4	Active
Mowry 7	3.3	Active	PT 6	3.4	Active
Mowry 8	3.0	Active	PT 7	3.4	Active
Mowry 9	3.3	Active	PT 8	3.4	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.brisbaneca.org>

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*	4,851
Number of Accounts	2,041
Number of SF RWS Connections	5
Connections to SF RWS Mains	Crystal Springs Pipeline #1 and #2
Avg. Day Demand (mgd)	0.61
Avg. Day Purchases from SF RWS (mgd)	0.61
% Demand Met with SF RWS Supplies	100%
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 2020 U.S. Census data for the City of Brisbane and annual estimated growth based on “Persons per Residential Connection” population method. *

Summary

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

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

Water Supply and Demand

Supply by Source	Actual FY 18-19 (ccf)	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)
San Francisco Water	323,917	310,127	303,604	298,906
Recycled Water	0	0	0	0
Other	0	0	0	0
Total	323,917	310,127	303,604	298,906
mgd equivalent	0.66	0.64	0.62	0.61

Demand by Sector

Residential	97,494	104,373	108,582	96,463
Commercial/Industrial	103,510	98,224	74,204	84,474
Other	21,611	1,711	27,929	10,285
Dedicated Irrigation	66,422	79,980	80,437	71,269
Non-Revenue Water	34,880	25,839	12,452	36,415
Total	323,917	310,127	303,604	298,906
mgd equivalent	0.66	0.64	0.62	0.61

Per Capita Use	Actual FY 18-19 (gpcpd)	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (ccf)
Residential	44	46	48	41
Gross	119	136	134	126

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**

Designation	Type	Capacity (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)	Prestressed Concrete	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 / Brisbane	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	32,407
Number of Accounts	8,841
Number of SF RWS Connections	6
Connections to SF RWS Mains	Crystal Springs #2 and #3, Sunset Pipeline
Avg. Day Demand (mgd)	3.46
Avg. Day Purchases from SF RWS (mgd)	3.36
% Demand Met with SF RWS Supplies	97%
Maximum Local Water Production (mgd)	0
Alternative Supply Sources	None
Interties with Other Agencies	California Water Service Company (CWS) – City of San Mateo, Town of Hillsborough, City of Millbrae
Local Storage (mg)	2,941
Days of Storage	1.2 days in six out of eight zones on maximum day, the remaining two zones have 0.2 days.

Summary

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

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

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

Water Supply and Demand

Supply by Source	Actual FY 18-19 (ccf)	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)
San Francisco Water	1,669,182	1,696,711	1,604,743	1,640,372
Recycled Water	146,400	53,639	48,797	47,254
Other	0	0	0	0
Total	1,815,582	1,750,350	1,653,540	1,687,626
mgd equivalent	3.72	3.59	3.39	3.46

Demand by Sector

Residential	985,397	1,036,364	1,080,357	965,593
Commercial/Industrial	464,483	415,308	303,111	374,818
Other	50,398	30,133	26,508	56,562
Dedicated Irrigation	230,919	166,580	112,609	60,482
Non-Revenue Water	84,385	101,966	130,955	230,172
Total	1,815,582	1,750,350	1,653,540	1,687,626
mgd equivalent	3.72	3.59	3.39	3.46

Per Capita Use	Actual FY 18-19 (gpcpd)	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)
Residential	65	68	68	61
Gross	99	112	101	104

Facilities and Distribution**Storage Reservoirs**

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

Interties

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

California Water Service - Bear Gulch District

3525 Alameda De Las Pulgas
Menlo Park, California 94025

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

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

Service Area

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

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

System

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

Profile

Area Size	45.3 square miles
Service Population	60,903
Number of Accounts	18,575
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)	10.71
Avg. Day Purchases from SF RWS (mgd)	10.45
% Demand Met with SF RWS Supplies	97.5%
Maximum Local Water Production (mgd)	6.028
Alternative Supply Sources	Local Surface Water, Local Groundwater- (Skyline system only - inactive)
Interties with Other Agencies	Redwood City, Menlo Park, (None)
Local Storage (mg)	11.3 Treated, 215 Untreated
Days of Storage	0.92 - Length of storage based on loss of all sources of supply. All zones can meet the 8 hr criteria either separately or by pumping from zones with excess capacity. Could increase use of Bear Gulch reservoir in an emergency to meet partial demand.

Summary

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

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

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

Water Supply and Demand

Supply by Source	Actual FY 18-19 (ccf)	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)
San Francisco Water	4,625,668	5,566,308	5,836,065	5,114,178
Local Groundwater	0	0	0	0
Surface Water	407,754	0	0	113,504
Recycled Water	0	0	0	0
Other	0	0	0	0
Total	5,033,422	5,566,308	5,836,065	5,227,682
mgd equivalent	10.32	11.41	11.96	10.71

Demand by Sector

Residential	4,133,091	4,542,847	4,874,275	4,411,197
Commercial/Industrial	495,877	490,604	454,253	477,764
Other	141,270	148,110	142,077	144,171
Dedicated Irrigation	11,325	11,433	11,195	13,694
Non-Revenue Water	251,859	373,314	354,265	180,856
Total	5,033,422	5,566,308	5,836,065	5,227,682
mgd equivalent	10.32	11.41	11.96	10.71

Per Capita Use	Actual FY 18-19 (gpcpd)	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)
Residential	139	153	164	148
Gross	161	187	197	176

Facilities and Distribution

Storage Reservoirs

Designation	Type	Capacity (gallons)	Designation	Type	Capacity (gallons)
Bear Gulch Reservoir*	Earth	215,000,000			
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. 033-Tank 1	Steel	10,000
Sta. 007-Tank 5	Fiberglass-Lined Redwood	100,000	Sta. 034-Tank 1	Steel	75,000
Sta. 015-Tank 1	Fiberglass-Lined Redwood	30,000	Sta. 036-Tank 1	Steel	125,000
Sta. 016-Res.1	Steel	1,000,000	Sta. 037-Tank 1	Steel	55,000
Sta. 017-Tank 1	Steel	250,000	Sta. 038-Tank 1	Steel	212,000
Sta. 019-Tank 1	Steel	500,000	Sta. 039-Tank 1	Steel	282,000
Sta. 019-Tank 2	Steel	500,000	Sta. 041-Tank 1	Steel	189,000
Sta. 021-Tank 1	Steel	1,000,000	Sta. 041-Tank 2	Steel	192,000
Sta. 021-Tank 2	Steel	1,000,000	Sta. 042-Tank 1	Steel	60,000
Sta. 022-Tank 1	Steel	450,000	Sta. 042-Tank 2	Steel	60,000
Sta. 025-Tank 1	Fiberglass-Lined Redwood	100,000	Sta. 047-Tank 1	Steel	80,376
Sta. 027-Tank 4	Steel	750,000	Sta. 047-Tank 2	Steel	80,376
Sta. 028-Tank 1	Steel	200,000			
			Total		226,177,752

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

Surface Water Treatment Facilities

Designation	Capacity (mgd)
Station 2 Filter Plant	6

Interties

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

California Water Service - Mid-Peninsula District

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

Service Area

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

System

Profile

Area Size	17 square miles
Service Population	137,490
Number of Accounts	35,958
Number of SF RWS Connections	8
Connections to SF RWS Mains	Bay Crossing 1 and 2, BDPL 1 and 2, Crystal Springs #2, Sunset Pipeline
Avg. Day Demand (mgd)	12.45
Avg. Day Purchases from SF RWS (mgd)	12.45
% 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.

Water Supply and Demand

Supply by Source	Actual FY 18-19 (ccf)	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)
San Francisco Water	5,991,673	6,292,879	6,336,593	6,074,256
Local Groundwater	0	0	0	0
Surface Water	0	0	0	0
Recycled Water	0	0	0	0
Other	0	0	0	0
Total	5,991,673	6,292,879	6,336,593	6,074,256
mgd equivalent	12.28	12.90	12.99	12.45

Demand by Sector

Residential	4,037,865	4,361,377	4,490,547	4,075,560
Commercial/Industrial	1,158,540	1,169,019	1,063,339	1,057,248
Other	376,023	382,057	345,231	337,275
Non-Revenue Water	419,245	380,426	237,164	604,173
Total	5,991,673	6,292,879	6,336,593	6,074,256
mgd equivalent	12.28	12.90	12.99	12.45

Per Capita Use	Actual FY 18-19 (gpcpd)	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)
Residential	61	65	67	61
Gross	89	94	94	91

Facilities and Distribution**Storage Reservoirs**

Designation	Type	Capacity (gallons)	Designation	Type	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

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

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

San Mateo Total 14,656,000

Storage Reservoirs

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

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

San Carlos Total 5,303,000

San Mateo and San Carlos Total 19,959,000

Interties

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

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

California Water Service - South San Francisco District

341 North Delaware Street

San Mateo, California 94401-1727

Phone: (650) 588-7800 Fax: (650) 588-1341

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

Service Area

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

System

Profile

Area Size	11.2 square miles
Service Population	63,702
Number of Accounts	16,477
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)	5.88
Avg. Day Purchases from SF RWS (mgd)	5.88
% Demand Met with SF RWS Supplies	100%
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. Currently, Cal Water's wells are offline due to participation in the SFPUC in lieu program. Approximately 20% of the demand can be met by groundwater pumping when SFPUC RWS surface supply is limited. The distribution system includes 15 pressure zones, 8 wells, 25 booster pumps, 14 storage reservoirs, 1,436 hydrants, and 160 miles of main.

Water Supply and Demand

Supply by Source	Actual FY 18-19 (ccf)	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)
SF RWS - Customary	2,277,038	2,291,209	2,222,223	2,868,442
SF RWS - Supplemental	668,470	670,301	668,470	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	2,945,508	2,961,510	2,890,693	2,868,442
mgd equivalent	6.04	6.07	5.92	5.88

Demand by Sector

Residential	1,226,738	1,278,910	1,107,523	1,214,617
Commercial/Industrial	1,361,300	1,557,250	1,401,125	1,522,188
Other	125,602	143,993	144,881	120,794
Non-Revenue Water	231,868	-18,643	237,164	10,843
Total	2,945,508	2,961,510	2,890,693	2,868,442
mgd equivalent	6.04	6.07	5.92	5.88

Per Capita Use	Actual FY 18-19 (gpcpd)	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)
Residential	40	42	36	39
Gross	89	96	94	92

Facilities and Distribution**Storage Reservoirs**

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

Wells

Name	Capacity (gpm)	Status*
Well 02	60	Inactive
Well 14	90	Destroyed
Well 15	95	Destroyed
Well 17	200	Destroyed
Well 18	340	Inactive
Well 19	160	Active
Well 20	150	Active
Well 21	220	Active
Well 22	295	Active
Well 23	300	Active
Well 24	380	Active
Total	1,505	(Active wells only)

Interties

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

Coastside County Water District

766 Main Street

Half Moon Bay, California 94019-1995

Phone: (650) 726-4405 Fax: (650) 726-5245

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

Service Area

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

System

Profile

Area Size	14 square miles
Service Population	18,839
Number of Accounts	7,658
Number of SF RWS Connections	2
Connections to SF RWS Mains	Upper Crystal Springs Reservoir Intake and Pilarcitos Reservoir at Stone Dam
Avg. Day Demand (mgd)	1.58
Avg. Day Purchases from SF RWS (mgd)	0.96
% Demand Met with SF RWS Supplies	60.64%
Avg. 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 days

Summary

Coastside County Water District has four water sources; (1) Pilarcitos Reservoir at Stone Dam, (2) Upper Crystal Springs Reservoir, (3) the Pilarcitos Creek Infiltration Well Field, and (4) the Denniston (groundwater and surface water) Project. Water purchased from the SF RWS is supplied from two different raw water sources: Pilarcitos Reservoir at Stone Dam and Upper Crystal Springs Reservoir.

Raw water from Upper Crystal Springs Reservoir, Pilarcitos Reservoir at Stone Dam and the Pilarcitos Creek Infiltration Wells terminate at the Nunes Water Treatment Plant. Raw water from Denniston Creek and the Denniston Well Field terminate at the Denniston Water Treatment Plant.

Water Supply and Demand

Supply by Source	Actual FY 18-19 (ccf)	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)
San Francisco Water	547,861	496,627	705,680	468,075
Local Groundwater	10,508	12,272	12,099	12,340
Surface Water	314,412	382,259	168,436	291,430
Recycled Water	0	0	0	0
Total	872,781	891,158	886,215	771,845
mgd equivalent	1.79	1.83	1.82	1.58

Demand by Sector

Residential	446,167	486,477	499,242	428,202
Commercial/Industrial	48,065	46,340	41,741	40,365
Other	266,457	255,259	163,455	184,481
Dedicated Irrigation	41,335	48,645	144,202	100,379
Non-Revenue Water	70,757	54,437	37,575	18,418
Total	872,781	891,158	886,215	771,845
mgd equivalent	1.79	1.83	1.82	1.58

Per Capita Use	Actual FY 18-19 (gpcpd)	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)
Residential	54	53	54	47
Gross	78	97	97	84

Facilities and Distribution**Treated Water Storage Reservoirs**

Designation	Type	Capacity (mg)
Denniston	Steel	1.50
El Granada 1	Steel	0.20
El Granada 2	Steel	0.15
El Granada 3	Steel	0.25
Miramar	Steel	1.00
Carter Hill	Steel	0.40
Carter Hill	Steel	0.60
Carter Hill	Steel	1.50
Miramontes	Steel	0.40
Alves	Steel	2.00
Total		8.00

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		Inactive
D3		Inactive
D4		Inactive
D5		Inactive
D9	45	Active
P1*	85	November 1 - March 31
P2*		Inactive
P3*	70	Active
P3A*	40	Active
P4*	80	November 1 - March 31 Standby
P4A*	240	November 1 - March 31
P5*	50	November 1 - March 31
Total	635	

*Surface water infiltration wells

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	107,197
Number of Accounts	23,205
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)	6.31
Avg. Day Purchases from SF RWS (mgd)	3.64
% Demand Met with SF RWS Supplies	57.66%
Maximum Local Water Production (mgd)	3.43
Alternative Supply Sources	Local Groundwater, Recycled Water
Interties with Other Agencies	GVMID, Brisbane, Cal Water, North Coast CWD, and Westborough CWD
Local Storage (mg)	24.58
Days of Storage	3.37 – Length of storage based on loss of all sources of supply. Can meet the 8 hr criteria either separately or by pumping from zones with excess capacity. Well water, normally used as a supplemental supply, could meet partial demands in an emergency.

Summary

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

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

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

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

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

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

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

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

Water Supply and Demand

Supply by Source	Actual FY 18-19 (ccf)	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)
San Francisco Water	1,804,183	1,939,670	1,722,950	1,776,082
SF RWS Supplemental Water	1,055,309	1,057,033	1,040,352	0
Local Groundwater	0	0	0	996,438
Recycled Water	186,618	142,642	114,263	307,487
Total	3,046,110	3,139,345	2,877,565	3,080,007
mgd equivalent	6.24	6.43	5.90	6.31

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

Demand by Sector

Residential	2,228,808	2,262,234	2,271,580	2,071,377
Commercial/Industrial	405,051	355,825	270,645	313,046
Other	25,502	26,541	69,456	70,286
Dedicated Irrigation	61,466	57,605	69,989	59,754
Non-Revenue Water	325,283	437,140	195,895	565,544
Total	3,046,110	3,139,345	2,877,565	3,080,007
mgd equivalent	6.24	6.43	5.90	6.31

Per Capita Use	Actual FY 18-19 (gpcpd)	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)
Residential	42	43	44	40
Gross (Less Recycled Water)	51	57	53	53

Facilities and Distribution**Storage Reservoirs**

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

Wells

Name	Capacity (gpm)	Status
Westlake	410	Active
Well 4	426	Active
Jeff Well	340	Active
Vale	693	Inactive
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>

Veolia North America

2415 University Avenue

East Palo Alto, CA 94303

Phone: (650) 322-2083

Service Area

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

System

Profile

Area Size	2.5 square miles
Service Population	25,935
Number of Accounts	4,039
Number of SF RWS Connections	3
Connections to SF RWS Mains	BDPL 1 and 2
Avg. Day Demand (mgd)	1.44
Avg. Day Purchases from SF RWS (mgd)	1.43
% Demand Met with SF RWS Supplies	99.22%
Maximum Local Water Production (mgd)	0
Alternative Supply Sources	Gloria Way Well
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" pipeline 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, Veolia North America.

Gloria Way Well is East Palo Alto's storage facility and is certified for alternate potable water supply sources within the City. The City has one emergency well currently not certified for potable use.

Water Supply and Demand

Supply by Source	Actual FY 18-19 (ccf)	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)
San Francisco Water	763,315	764,033	743,205	699,368
Resale SF RWS (Menlo Park)	0	0	0	0
Local Groundwater	0	415	5,252	5,466
Recycled Water	0	0	0	0
Other	0	0	0	0
Total	763,315	764,448	748,457	704,834
mgd equivalent	1.56	1.57	1.53	1.44

Demand by Sector

Residential	487,190	486,705	552,003	552,003
Commercial/Industrial	265,076	264,811	115,888	115,888
Other	11,049	11,038	19,386	19,384
Dedicated Irrigation	0	0	0	40,838
Non-Revenue Water	0	1,894	61,180	-23,279
Total	763,315	764,448	748,457	704,834
mgd equivalent	1.56	1.57	1.53	1.44

Per Capita Use	Actual FY 18-19 (gpcpd)	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)
Residential	38	38	44	44
Gross	60	60	59	56

Facilities and Distribution**Wells**

Name	Capacity (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	8	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	33,056
Number of Accounts	8,220
Number of SF RWS Connections	1
Connections to SF RWS Mains	Crystal Springs #2
Avg. Day Demand (mgd)	3.87
Avg. Day Purchases from SF RWS (mgd)	3.87
% 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.

Water Supply and Demand

Supply by Source	Actual FY 18-19 (ccf)	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)
San Francisco Water	1,969,663	2,115,607	2,101,104	1,887,409
Local Groundwater	0	0	0	0
Surface Water	0	0	0	0
Recycled Water	0	0	0	0
Other	0	0	0	0
Total	1,969,663	2,115,607	2,101,104	1,887,409
mgd equivalent	4.04	4.34	4.31	3.87

Demand by Sector

Residential	1,096,526	1,133,931	1,205,764	1,068,179
Commercial/Industrial	221,853	201,896	146,934	157,708
Other	28,313	28,642	22,514	21,665
Dedicated Irrigation	520,452	554,625	565,250	482,115
Non-Revenue Water	102,519	196,513	160,642	156,742
Total	1,969,663	2,115,607	2,101,104	1,887,409
mgd equivalent	4.04	4.34	4.31	3.87

Per Capita Use	Actual FY 18-19 (gpcpd)	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)
Residential	59	62	66	66
Gross	101	115	114	117

Facilities and Distribution**Storage Reservoirs**

Designation	Type	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

Public Works & Utilities 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	160,591
Number of Accounts	36,915
Number of SF RWS Connections	4 (two at each turnout)
Connections to SF RWS Mains	BDPL 1 and 2
Avg. Day Demand (mgd)	14.07
Avg. Day Purchases from SF RWS (mgd)	14.05
% Demand Met with SF RWS Supplies	99.85%
Maximum Local Water Production (mgd)	0
Alternative Supply Sources	Local Groundwater (Emergency Use Only)
Interties with Other Agencies	ACWD, EBMUD
Local Storage (mg)	31.3
Days of Storage	2.2 - 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. The wells have not been put to use in the past.

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-foot elevation pressure zone from SF RWS with sufficient pressure under most conditions. The Hayward Fault generally runs along, and just to the east of Mission Boulevard. Storage is located in the eastern portion of the City, east of Mission Blvd. The Decoto and/or Hesperian pump stations boost pressure in the 250

zone when necessary. All five emergency wells are located west of Mission Blvd., as are three of the City's five emergency interties.

Water Supply and Demand

Supply by Source	Actual FY 18-19 (ccf)	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)
San Francisco Water	6,821,848	6,794,224	7,098,330	6,854,523
Local Groundwater	0	0	0	0
Recycled Water*	361,987	0	0	10,433
Total	7,183,835	6,794,224	7,098,330	6,864,956
mgd equivalent	14.72	13.92	14.55	14.07

*Recycled water delivery includes volumes of secondary treated water delivered to Russell City Energy Center (RCEC) in FY 18-19. In FY 21-22, the City began tertiary-treated recycled water deliveries to its Phase 1 commercial and industrial irrigation customers.

Demand by Sector

Residential	3,696,052	3,726,969	3,900,465	3,614,790
Commercial/Industrial	1,647,709	1,627,967	1,289,268	1,280,048
Other	629,273	558,187	488,247	456,427
Dedicated Irrigation	807,220	923,004	959,411	825,279
Non-Revenue Water	41,594	-41,903	460,939	688,412
Total	6,821,848	6,794,224	7,098,330	6,864,956
mgd equivalent	13.98	13.92	14.55	14.07

Per Capita Use	Actual FY 18-19 (gpcpd)	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)
Residential	47	48	49	46
Gross	87	87	89	87

Facilities and Distribution

Storage Reservoirs

Designation	Type	Capacity (gallons)	Designation	Type	Capacity (gallons)
Treeview	Concrete	3,000,000	250 East	Concrete	500,000
Maitland	Concrete	1,000,000	250 West	Concrete	500,000
North Walpert	Concrete	1,500,000	Highland 500	Concrete	3,000,000
South Walpert	Steel	5,300,000	Highland 750	Steel	4,400,000
D Street	Concrete	1,000,000	Highland 1000	Steel	2,200,000
High School	Concrete	1,000,000	Highland 1285	Steel	1,800,000
Garin Hills South	Steel	1,250,000	Highland 1530 East	Steel	2,900,000
New Garin Hills	Steel	750,000	Highland 1530	Steel	1,200,000
Total					31,300,000

Wells

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

*Out of service and not functional.

Interties

Name	N o.	Diameter (in.)
EBMUD*	2	10, 12
ACWD	2	12, 12
Regional Water System	1	36

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

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	11,397
Number of Accounts	4,302
Number of SF RWS Connections	9 Turnouts, 12 meters
Connections to SF RWS Mains	Crystal Springs #2, Sunset Pipeline
Avg. Day Demand (mgd)	2.34
Avg. Day Purchases from SF RWS (mgd)	2.34
% 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.

Water Supply and Demand

Supply by Source ¹	Actual FY 18-19 (ccf)	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)
San Francisco Water	1,124,778	1,280,605	1,314,680	1,141,504
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	1,124,778	1,280,605	1,314,680	1,141,504
mgd equivalent	2.31	2.62	2.69	2.34

Demand by Sector ²

Residential	1,041,123	1,144,715	1,218,782	1,058,579
Commercial/Industrial	5,418	19,896	4,193	3,998
Institutional/Other	13,670	15,751	16,094	13,917
Dedicated Irrigation	20,300	23,524	28,830	33,112
Non-Revenue Water	44,267	68,946	46,781	31,898
Total	1,124,778	1,280,605	1,314,680	1,141,504
mgd equivalent	2.31	2.62	2.69	2.34

Per Capita Use	Actual FY 18-19 (gpcpd)	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)
Residential	196	216	219	190
Gross	204	242	236	205

1 SFPUC billing is based on monthly meter readings.

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

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

Facilities and Distribution**Storage Reservoirs**

Designation	Type	Capacity (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

Designation	Type	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
 701 Laurel Street
 Menlo Park, California 94025-3483
 Phone: (650) 330-6750 E-mail: water@menlopark.org
 Web: <http://www.menlopark.gov>

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	9 square miles
Service Population	21,340
Number of Accounts	4,453
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)	2.45
Avg. Day Purchases from SF RWS (mgd)	2.45
% Demand Met with SF RWS Supplies	100%
Maximum Local Water Production (mgd)	0
Alternative Supply Sources	One well for emergency purposes only
Interties with Other Agencies	CWS - Bear Gulch District, Redwood City, East Palo Alto, O'Connor Tract Water Coop
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. 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. Menlo Park also serves a handful of customers in City of Redwood City and the Town of Portola Valley via 4 connections. 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, and East Palo Alto. CWS and the emergency well are the primary emergency sources of water for Menlo Park.

Water Supply and Demand

Supply by Source	Actual FY 18-19 (ccf)	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)
San Francisco Water	1,576,137	1,442,176	1,379,039	1,195,123
Resale SF RWS Purchase	0	0	0	0
Other	0	0	0	0
Total	1,576,137	1,442,176	1,379,039	1,195,123
mgd equivalent	3.23	2.96	2.83	2.45

Demand by Sector

Residential	525,857	597,601	600,474	511,259
Commercial/Industrial	531,748	488,095	436,302	422,508
Other	83,394	114,087	128,222	135,806
Dedicated Irrigation	158,041	188,177	155,024	124,289
Non-Revenue Water	277,097	54,216	59,017	1,261
Total	1,576,137	1,442,176	1,379,039	1,195,123
mgd equivalent	3.23	2.96	2.83	2.45

Per Capita Use	Actual FY 18-19 (gpcpd)	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)
Residential	61	67	64	49
Gross	150	162	146	115

Facilities and Distribution**Storage Reservoirs**

Designation	Type	Capacity (mg)
Reservoir 1	Storage	2.0
Reservoir 2	Storage	3.5
Total		5.5

Interties

Name	No.	Diameter (in.)
CWS – Bear Gulch	3	6, 8, 10
East Palo Alto	8	8, 8, 10, 10, 10, 12, 12, 12
O'Connor Tract	1	6
Redwood City	1	Hydrant to hydrant

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	29,709
Number of Accounts	8,187
Number of SF RWS Connections	2
Connections to SF RWS Mains	BDPL 1 and 2, Crystal Springs Bypass Tunnel
Avg. Day Demand (mgd)	2.40
Avg. Day Purchases from SF RWS (mgd)	2.40
% Demand Met with SF RWS Supplies	100%
Maximum Local Water Production (mgd)	0
Alternative Supply Sources	None
Interties with Other Agencies	Estero MID, Redwood City, CWS - San Mateo, CWS - San Carlos
Local Storage (mg)	12.5
Days of Storage	3.6 - All zones can meet the 8 hr criteria either separately or by pumping from zones with excess capacity.

Summary

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

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

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

Water Supply and Demand

Supply by Source	Actual FY 18-19 (ccf)	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)
San Francisco Water	1,220,573	1,295,922	1,273,998	1,172,923
Local Groundwater	0	0	0	0
Surface Water	0	0	0	0
Recycled Water	0	0	0	0
Other	0	0	0	0
Total	1,220,573	1,295,922	1,273,998	1,172,923
mgd equivalent	2.50	2.66	2.61	2.40

Demand by Sector

Residential	818,122	916,630	953,609	836,837
Commercial/Industrial	214,662	195,733	166,362	158,757
Other	35,620	38,161	34,506	33,109
Dedicated Irrigation	79,886	102,741	93,605	85,783
Non-Revenue Water	72,283	42,657	25,916	58,437
Total	1,220,573	1,295,922	1,273,998	1,172,923
mgd equivalent	2.50	2.66	2.61	2.40

Per Capita Use	Actual FY 18-19 (gpcpd)	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)
Residential	62	70	71	58
Gross	87	98	95	81

Facilities and Distribution**Storage Reservoirs**

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

Interties

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

City of Millbrae

Public Works - Engineering
 621 Magnolia Avenue
 Millbrae, California 94030

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

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

Service Area

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

System

Profile

Area Size	3.2 square miles
Service Population	22,277
Number of Accounts	6,538
Number of SF RWS Connections	5
Connections to SF RWS Mains	Murchison, Greenhills, Park, 195 ECR, Helen
Avg. Day Demand (mgd)	1.85
Avg. Day Purchases from SF RWS (mgd)	1.85
% Demand Met with SF RWS Supplies	100%
Maximum Local Water Production (mgd)	0
Alternative Supply Sources	None
Interties with Other Agencies	Burlingame
Local Storage (mg)	2.36
Days of Storage	2.0 – 3 of 4 (Zones 1- 3) zones receive water from Harry Tracy Plant. Meets 8 hr. coverage for City's 3 upper zones. Planned projects will provide interties among zones to provide storage to Zone 4. These projects are pending completion of a Master Plan.

Summary

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

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

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

Water Supply and Demand

Supply by Source	Actual FY 18-19 (ccf)	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)
San Francisco Water	949,277	927,939	906,122	900,514
Local Groundwater	0	0	0	0
Surface Water	0	0	0	0
Recycled Water	12	12,000	0	0
Other	0	0	0	0
Total	949,289	939,939	906,122	900,514
mgd equivalent	1.95	1.93	1.86	1.85

Demand by Sector

Residential	598,836	603,740	625,079	552,391
Commercial/Industrial	169,181	146,136	66,540	70,805
Other	37,590	27,096	61,427	18,731
Dedicated Irrigation	63,924	69,292	78,444	67,232
Non-Revenue Water	79,758	93,675	74,632	191,355
Total	949,289	939,939	906,122	900,514
mgd equivalent	1.95	1.93	1.86	1.85

Per Capita Use	Actual FY 18-19 (gpcpd)	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)
Residential	53	54	56	51
Gross (less recycled water)	77	83	81	83

Facilities and Distribution

Storage Reservoirs

Designation	Type	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

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

City of Milpitas

Public Works Department
 455 East Calaveras Boulevard
 Milpitas, California 95035-5411
 Phone: (408) 586-2600 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	80,839
Number of Accounts	16,138
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)	8.74
Avg. Day Purchases from SF RWS (mgd)	4.61
% Demand Met with SF RWS Supplies	52.79%
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, 11 pressure regulator valves, 6 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. Two wells are under construction to supplement water supply during emergencies.

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

Water Supply and Demand

Supply by Source	Actual FY 18-19 (ccf)	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)
San Francisco Water	2,585,031	2,886,833	2,647,856	2,251,779
Santa Clara Valley WD	1,385,528	1,226,711	1,526,474	1,589,861
Recycled Water	489,032	469,458	415,177	423,744
Other	0	0	0	0
Total	4,459,591	4,583,002	4,589,507	4,265,384
mgd equivalent	9.14	9.39	9.41	8.74

Demand by Sector

Residential	1,977,850	1,946,099	2,152,431	2,036,897
Commercial/Industrial	1,060,313	846,889	891,128	792,330
Other	144,921	111,402	103,921	114,066
Dedicated Irrigation	943,171	901,527	753,134	805,639
Non-Revenue Water	333,336	777,085	688,893	516,452
Total	4,459,591	4,583,002	4,589,507	4,265,384
mgd equivalent	9.14	9.39	9.41	8.74

Per Capita Use	Actual FY 18-19 (gpcpd)	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)
Residential	54	51	57	52
Gross (Less Recycled Water)	109	108	110	97

Facilities and Distribution**Storage Reservoirs**

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

Wells

Name	Capacity (mgd)	Status
Pinewood*	1.7	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	81,764
Number of Accounts	17,892
Number of SF RWS Connections	3 turnouts/ 9 meters
Connections to SF RWS Mains	BDPL 3 and 4
Avg. Day Demand (mgd)	8.65
Avg. Day Purchases from SF RWS (mgd)	7.34
% Demand Met with SF RWS Supplies	84.83%
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 4 active wells (3 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 Supply and Demand

Supply by Source	Actual FY 18-19 (ccf)	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)
San Francisco Water	3,519,587	3,740,804	3,855,612	3,581,200
Santa Clara Valley WD	435,348	463,239	453,691	405,634
Local Groundwater	105,363	112,912	57,895	46,002
Recycled Water	160,299	160,299	191,957	188,938
Total	4,220,597	4,477,254	4,559,155	4,221,774
mgd equivalent	8.65	9.18	9.34	8.65

Demand by Sector

Residential	2,275,480	2,428,520	2,536,456	2,307,012
Commercial/Industrial	782,463	732,085	540,433	619,103
Other	1,446	3,190	3,392	1,778
Dedicated Irrigation	970,445	1,156,950	1,195,722	1,085,804
Non-Revenue Water*	190,763	156,509	283,152	208,077
Total	4,220,597	4,477,254	4,559,155	4,221,774
mgd equivalent	8.65	9.18	9.34	8.65

Per Capita Use	Actual FY 18-19 (gpcpd)	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)
Residential	59	62	63	58
Gross	104	111	108	101

Facilities and Distribution

Storage Reservoirs

Designation	Type	Capacity (gallons)	Designation	Type	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

Name	Capacity (mgd)	Status	Name	Capacity (mgd)	Status
Well 19	0.7	Active	Well 21	1.1	OOS
			Well 22	1.1	Active
			Well 23	1.3	Active
Total				4.2	

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

Area Size	13.6 square miles
Service Population	37,533
Number of Accounts	12,273
Number of SF RWS Connections	1
Connections to SF RWS Mains	San Andreas 3
Avg. Day Demand (mgd)	2.22
Avg. Day Purchases from SF RWS (mgd)	2.19
% Demand Met with SF RWS Supplies	98.5%
Maximum Local Water Production (mgd)	0
Alternative Supply Sources	Local Surface Water; Recycled Water
Interties with Other Agencies	San Bruno, Daly City, Westborough CWD
Local Storage (mg)	18.25
Days of Storage	5.8 days – 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 potable 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 Christen 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 31 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 5.8 days at typical demands and storage. A small amount of water is conveyed to San Bruno annually as a public customer.

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

Water Supply and Demand

Supply by Source	Actual FY 18-19 (ccf)	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)
San Francisco Water	1,119,762	1,157,526	1,172,219	1,068,893
Recycled Water	22,277	28,510	22,198	15,744
Other	0	0	0	0
Total	1,142,039	1,186,036	1,194,417	1,084,637
mgd equivalent	2.34	2.43	2.45	2.22

Demand by Sector

Residential	826,999	856,032	915,799	806,906
Commercial/Industrial	93,884	95,952	82,724	90,075
Other	58,796	54,608	56,475	75,292
Dedicated Irrigation	28,819	55,668	51,256	52,299
Non-Revenue Water	133,541	123,776	88,163	60,065
Total	1,142,039	1,186,036	1,194,417	1,084,637
mgd equivalent	2.34	2.43	2.45	2.22

Per Capita Use

	Actual FY 18-19 (gpcpd)	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)
Residential	42	45	49	44
Gross	53	62	63	58

Facilities and Distribution

Potable Storage Reservoirs

Designation	Capacity (gallons)
11 Reservoirs	18,250,000
Total	18,250,000

Water Treatment Facilities:

Surface Water

Designation	Capacity (mgd)
San Pedro WTP	0.5

Recycled Water

Designation	Capacity (mgd)
Central District	0.3

Interties

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

Name	No.	Diameter (in.)
Westborough	3	8, 10, 10

City of Palo Alto

250 Hamilton Avenue

Palo Alto, California 94301-2593

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

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

Service Area

Located in north Santa Clara County, Palo Alto is the only municipality in California that operates six utilities - electric and fiber, water, gas, wastewater 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	67,973
Number of Accounts	20,043
Number of SF RWS Connections	5
Connections to SF RWS Mains	Palo Alto Pipeline, BDPL 3 and 4
Avg. Day Demand (mgd)	10.63
Avg. Day Purchases from SF RWS (mgd)	9.65
% Demand Met with SF RWS Supplies	90.8%
Maximum Local Water Production (mgd)	15.05 – 8 emergency wells
Alternative Supply Sources	Recycled Water, Local Groundwater
Interties with Other Agencies	East Palo Alto CWD, Mountain View, Purissima Hills WD, Stanford University
Local Storage (mg)	13
Days of Storage	1.13 – Currently, Palo Alto water system can independently supply 8 hr under maximum day demands for emergency use

Summary

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

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

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

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

Water Supply and Demand

Supply by Source	Actual FY 18-19 (ccf)	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)
San Francisco Water	4,600,990	4,757,199	4,953,805	4,709,184
Local Groundwater	0	0	0	0
Recycled Water	368,841	380,458	498,649	476,934
Other	0	0	0	0
Total	4,969,831	5,137,657	5,452,454	5,186,118
mgd equivalent	10.18	10.53	11.17	10.63

Demand by Sector

Residential	2,758,658	2,946,443	3,097,067	2,771,300
Commercial/Industrial	866,038	837,673	734,025	808,852
Other	674,653	710,137	694,338	651,375
Dedicated Irrigation	480,699	556,858	744,143	703,976
Non-Revenue Water	189,517	86,546	182,881	250,615
Total	4,969,831	5,137,657	5,452,454	5,186,118
mgd equivalent	10.18	10.53	11.17	10.63

Per Capita Use	Actual FY 18-19 (gpcpd)	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)
Residential	84	90	95	84
Gross (Less Recycled Water)	145	145	152	142

Facilities and Distribution

Storage Reservoirs

Designation	Type	Capacity (gallons)	Designation	Type	Capacity (gallons)
Mayfield	Concrete	4,000,000	El Camino	Steel	2,500,000
Boronda	Concrete	1,500,000	Montebello	Steel	1,500,000
Corte Madera	Steel	1,500,000	Park	Steel	1,000,000
Dahl	Steel	1,000,000	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

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	2,222
Number of SF RWS Connections	2
Connections to SF RWS Mains	BDPL 3 and 4
Avg. Day Demand (mgd)	1.64
Avg. Day Purchases from SF RWS (mgd)	1.64
% Demand Met with SF RWS Supplies	100%
Maximum Local Water Production (mgd)	0
Alternative Supply Sources	None
Interties with Other Agencies	CWS - Los Altos, City of Palo Alto
Local Storage (mg)	9.88
Days of Storage	All 4 distribution zones can meet the 8 hr criteria either separately or by pumping from zones with excess capacity

Summary

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

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

Water Supply and Demand

Supply by Source	Actual FY 18-19 (ccf)	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)
San Francisco Water	770,703	851,999	925,721	799,210
Recycled Water	0	0	0	0
Other	0	0	0	0
Total	770,703	851,999	925,721	799,210
Mgd equivalent	1.58	1.75	1.90	1.64

Demand by Sector

Residential	672,238	746,898	823,222	746,898
Commercial/Industrial	0	0	2	0
Other	54,239	42,089	45,488	45,485
Dedicated Irrigation	4,508	4,814	5,089	4,814
Non-Revenue Water	39,718	58,198	51,920	2,013
Total	770,703	851,999	925,721	799,210
Mgd equivalent	1.58	1.75	1.90	1.64

Per Capita Use	Actual FY 18-19 (gpcpd)	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)
Residential	224	249	274	249
Gross	240	284	308	266

Facilities and Distribution**Storage Reservoirs**

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

Interties

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

City of Redwood City

Public Works Services Department
 1400 Broadway
 Redwood City, California 94063-2505
 Phone: (650) 780-7464 Fax: (650) 780-7445
 Web: <http://www.redwoodcity.org/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	89,037
Number of Accounts	24,460
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)	8.54
Avg. Day Purchases from SF RWS (mgd)	7.90
% Demand Met with SF RWS Supplies	92.48%
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. Seven of the turnouts are located off Bay Division Pipelines 1, 2 and 5; one turnout is off BDPL 1, 2, 3, and 5; and five turnouts are off BDPL 3 and 4.

The distribution system consists of 25 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 10 emergency interties with California Water Service Bear Gulch and Mid-Peninsula Districts, Mid-Peninsula Water District, and the City of Menlo Park.

Water Supply and Demand

Supply by Source	Actual FY 18-19 (ccf)	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)
San Francisco Water	3,943,761	4,276,459	4,137,728	3,855,958
Recycled Water	302,909	374,651	361,259	313,616
Other	0	0	0	0
Total	4,246,670	4,651,110	4,498,987	4,169,575
mgd equivalent	8.70	9.53	9.22	8.54

Demand by Sector

Residential	2,569,896	2,723,209	2,860,045	2,554,867
Commercial/Industrial	701,754	647,016	532,901	576,384
Other	79,627	98,527	76,287	86,787
Dedicated Irrigation	594,772	721,453	701,616	619,822
Non-Revenue Water	300,621	460,905	328,138	331,715
Total	4,246,670	4,651,110	4,498,987	4,169,575
mgd equivalent	8.70	9.53	9.22	8.54

Per Capita Use	Actual FY 18-19 (gpcpd)	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)
Residential	61	62	66	59
Gross (Less Recycled Water)	91	97	95	89

Facilities and Distribution**Storage Reservoirs**

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

Interties

Name	No.	Diameter (in.)
CWS – Bear Gulch	2	6, 6
CWS – Mid-Peninsula	4	8, 8, 8, 12
CWS – Mid-Peninsula	2	Hydrant to Hydrant
Menlo Park	1	Hydrant to Hydrant
Mid-Pen WD	1	12

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: <https://www.sanbruno.ca.gov/456/Water>

Service Area

The City of San Bruno is primarily an urban residential community located in San Mateo County with low density residential land uses in the west hillside areas and high density residential, commercial, and institutional land uses in the east towards San Francisco Bay.

System

Profile

Area Size	6.1 square miles
Service Population	44,409
Number of Accounts	11,503
Number of SF RWS Connections	5
Connections to SF RWS Mains	Crystal Springs # 2 and #3, San Andreas 1, 2, and 3, Sunset Pipeline
Avg. Day Demand (mgd)	3.03
Avg. Day Purchases from SF RWS (mgd)	1.04
% Demand Met with SF RWS Supplies	34.25%
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 water supply comes from three different sources – surface water purchased from San Francisco Public Utilities Commission (SFPUC), surface water purchased from North Coast County Water District (NCCWD), and ground water produced from the City's wells.

The San Bruno Water system consists of 5 surface water supply turnouts, 4 active groundwater wells, 8 storage tanks, 13 pressure zones, 8 booster pump stations, 31 pressure regulating stations, most of which are equipped with pressure reducing valves that regulate water from high pressure zones to lower pressure zones and approximately 116 miles of water mains ranging in sizes from 2 to 18 inches diameter.

Water Supply and Demand

Supply by Source	Actual FY 18-19 (ccf)	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)
SF RWS - Customary	420,116	465,406	444,989	507,220
SF RWS - Supplemental	793,401	922,606	883,411	0
Local Groundwater	139,612	110,306	165,404	961,490
Surface Water	0	0	0	0
Recycled Water	0	0	0	0
Other (North Coast CWD)	21,622	13,148	12,773	12,040
Total	1,374,751	1,511,466	1,506,577	1,480,750
mgd equivalent	2.82	3.10	3.09	3.03

Demand by Sector

Residential	1,032,586	1,041,885	988,676	1,032,586
Commercial/Industrial	269,983	266,655	235,600	269,983
Other	72,182	90,312	82,914	72,182
Non-Revenue Water	0	112,614	199,387	105,999
Total	1,374,751	1,511,466	1,506,577	1,480,750
mgd equivalent	2.82	3.10	3.09	3.03

Per Capita Use	Actual FY 18-19 (gpcpd)	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)
Residential	48	48	46	48
Gross	63	70	70	68

Facilities and Distribution

Storage Reservoirs

Designation	Type	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

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	40,514
Number of Accounts	2,377
Number of SF RWS Connections	2
Connections to SF RWS Mains	BDPL 3 and 4
Avg. Day Demand (mgd)	5.09 Potable and Recycled
Avg. Day Purchases from SF RWS (mgd)	4.11
% Demand Met with SF RWS Supplies	80.7%
Maximum Local Water Production (mgd)	0
Alternative Supply Sources	Ground Water and Recycled Water
Interties with Other Agencies	City of Santa Clara
Local Storage (mg)	6.0
Days of Storage	1.3 – Length of storage based on loss of all sources of supply. Can meet the required 8 hr. coverage with storage alone. Well water, normally used supplementally, could supply peak demand in an emergency

Summary

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

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

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

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

Water Supply and Demand

Supply by Source	Actual FY 18-19 (ccf)	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)
San Francisco Water	2,084,721	2,077,874	2,039,631	2,004,207
Local Groundwater	7,335	15,871	15,197	14,866
Recycled Water	421,131	405,919	479,208	462,435
Other	0	0	0	0
Total	2,513,187	2,499,664	2,534,036	2,481,508
mgd equivalent	5.15	5.12	5.19	5.09

Demand by Sector

Residential	808,653	793,634	808,654	754,495
Commercial/Industrial	985,465	880,647	834,956	849,963
Other	27,188	33,518	32,500	28,957
Dedicated Irrigation	717,498	745,523	715,964	708,871
Non-Revenue Water	-25,617	46,343	141,962	138,222
Total	2,513,187	2,499,664	2,534,036	2,481,508
mgd equivalent	5.15	5.12	5.19	5.09

Per Capita Use	Actual FY 18-19 (gpcpd)	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)
Residential	103	46	44	38
Gross (Less Recycled Water)	322	121	111	102

Facilities and Distribution

Storage Reservoirs

Designation	Type	Capacity (mg)
Storage Tank 1	Steel	3
Storage Tank 2	Steel	3
Total		6

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	130,746
Number of Accounts	25,371
Number of SF RWS Connections	2
Connections to SF RWS Mains	BDPL 3 and 4
Avg. Day Demand (mgd)	18.64
Avg. Day Purchases from SF RWS (mgd)	3.11
% Demand Met with SF RWS Supplies	16.6%
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, Recycled Water
Interties with Other Agencies	Santa Clara Valley WD
Local Storage (mg)	28.8
Days of Storage	1 – Length of storage based on loss of all sources of supply. All zones can meet the 8 hr criteria either separately or by pumping from zones with excess capacity. Well water, normally used supplementally, could supply peak demand in an emergency.

* Average daily demand includes recycled water

Summary

The City of Santa Clara purchases water from SF RWS and SCVWD. Two SF RWS turnouts off BDPL 3 and 4 supply the Northside tank and booster station, which distributes water to the northernmost pressure zone of the City. Water from SCVWD is delivered to the southwest portion of the City through the Santa Clara Distributary.

Water from 19 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 Regional Wastewater Facility (RWF) is available for landscape irrigation and certain industrial uses, distributed within Santa Clara by about 33 miles of pipeline.

Water Supply and Demand

Supply by Source	Actual FY 18-19 (ccf)	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)
San Francisco Water	1,474,198	1,596,791	1,576,338	1,515,536
Santa Clara Valley WD	1,966,444	1,806,417	1,769,252	1,530,108
Local Groundwater	4,322,193	4,562,700	4,562,565	4,447,151
Recycled Water	1,760,160	1,651,515	1,545,861	1,602,429
Other	0	0	0	0
Total	9,522,995	9,617,423	9,454,016	9,095,223
mgd equivalent	19.52	19.71	19.37	18.64

Demand by Sector

Residential	3,762,834	4,033,373	4,127,523	3,840,241
Commercial/Industrial	4,261,898	4,517,414	2,426,325	4,246,897
Other	1,038,369	624,105	2,401,508	859,031
Dedicated Irrigation	0	0	0	0
Non-Revenue Water	459,893	442,531	498,660	149,054
Total	9,522,995	9,617,423	9,454,016	9,095,223
mgd equivalent	19.52	19.71	19.37	18.64

Per Capita Use	Actual FY 18-19 (ccf)	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)
Residential	58	62	62	56
Gross (Less Recycled Water)	144	126	124	117

Facilities and Distribution**Storage Reservoirs**

Designation	Type	Capacity (mg)
Northside Tank 1	Steel	4.7
Northside Tank 2	Steel	4.7
Serra Tank 1	Steel	4.6
Serra Tank 2	Steel	4.4
Serra Tank 3	Steel	4.2
Downtown	Steel	4.2
Corporation Yard Tank	Steel	2.0
Total		28.8

Wells

Name	Capacity (mgd)	Status	Name	Capacity (mgd)	Status
Well 2-02	2.7	Active	Well 16-02	1.6	Inactive
Well 3-02	2.6	Active	Well 17-02	2.9	Active
Well 4	1.4	Active	Well 18-02	1.9	Active
Well 5-02	2.3	Inactive	Well 21	2.6	Inactive
Well 7	1.7	Active	Well 22-02	1.7	Active
Well 8	1.6	Active	Well 23	2.6	Inactive
Well 9-02	1.5	Active	Well 24	2.2	Active
Well 10	2.4	Active	Well 25	1.3	Active
Well 11	2.5	Inactive	Well 26	1.4	Inactive
Well 12	2.1	Active	Well 28	2.8	Active
Well 13-02	2.4	Active	Well 29	2.7	Active
Well 15	1.2	Active	Well 30	2.0	Active
			Well 34	1.4	Active
			Total	55.5	

Interties

Name	No.	Diameter (in.)
SCVWD	1	10

Stanford University

315 Bonair Siding

Stanford, California 94305-7272

Phone: (650) 725-8030 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	32,235*
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)	2.52
Avg. Day Purchases from SF RWS (mgd)	1.46
% Demand Met with SF RWS Supplies	58% (100% of domestic water)
Average Day Local Water Production (mgd)	1.1
Alternative Supply Sources	Local groundwater, surface water, stormwater, construction dewatering, 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.

** 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.

Summary

Stanford has five sources of water supply: purchased potable water from the SF RWS, groundwater, non-potable surface water from the local watershed, stormwater/runoff capture, 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 historically supplied by Stanford’s surface water diversions and supplemented by ground water.

The extent of ground water use depends on the amount of rainfall and resulting surface water supply availability. Starting in FY 2017-18 Annual Surveys, additional tracking of captured construction dewatering water for use as irrigation water is also included (other, non-potable alternative water supply). The lake water system can also be supplied as needed by SF RWS water.

Water Supply and Demand

Supply by Source	Actual FY 18-19 (ccf)	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)
San Francisco Water	697,159	699,352	659,830	714,224
Local Groundwater	0	0	0	0
Recycled Water	0	0	0	1,199
Surface Water	0	0	0	0
Other	531,006	521,726	538,983	513,069
Total	1,228,165	1,221,078	1,198,813	1,227,293
mgd equivalent	2.52	2.50	2.46	2.52

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. 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. In the FY 2017-18 and FY 2018-19 Annual Survey, additional tracking of captured construction dewatering water for use as irrigation water is also included (other, non-potable alternative water supply).

Demand by Sector

Residential	380,398	381,216	383,290	281,216
Commercial/Industrial	63,374	73,482	72,869	72,962
Other	169,600	160,343	123,189	154,952
Dedicated Irrigation	572,128	540,451	540,451	540,451
Non-Revenue Water	42,667	65,587	79,014	78,911
Total	1,228,167	1,221,078	1,198,813	1,227,293
mgd equivalent	2.52	2.50	2.46	2.52

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. 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 "Non-Revenue Water" category.

Per Capita Use	Actual FY 18-19 (gpcpd)	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)
Residential	n/a	n/a	n/a	n/a
Gross	77	78	180	78

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

Facilities and Distribution

Storage Reservoirs

Designation	Type	Capacity (gallons)
Foothill 1		2,000,000
Foothill 2		6,000,000
Reservoir 3 (Formally San Juan*)		1,500,000
Total		9,500,000

*Rehabilitated reservoir was brought into service in November 2019.

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

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	156,503
Number of Accounts	28,545
Number of SF RWS Connections	6
Connections to SF RWS Mains	BDPL 3 and 4
Avg. Day Demand (mgd)	16.90
Avg. Day Purchases from SF RWS (mgd)	9.20
% Demand Met with SF RWS Supplies	54.5%
Maximum Local Water Production (mgd)	0.12
Alternative Supply Sources	Local Groundwater
Interties with Other Agencies	CWS, SCVWD, Mountain View, Cupertino
Local Storage (mg)	27.5
Days of Storage	More Than 1 Day – Length of storage based on loss of all sources of supply. With loss of SF RWS supply only, City can utilize wells, SCVWD or excess capacity from other zones to meet 8 hour outage.

Summary

Sunnyvale's water utility receives water supplied from SF RWS via 6 turnouts off BDPL 3 and 4 in the northern section of the City. The SCVWD connections are located in the far southwest corner of the City. Water from SCVWD is primarily served from the District's Rinconada WTP. A few formerly unincorporated County of Santa Clara pockets are currently served by CWS, backed up by interties with the City.

Groundwater is provided by 7 active wells, with 1 well on stand-by status. Water from these wells meets all current drinking water standards without treatment. The wells are used to meet peaking requirements and to supply water for fire and other emergencies. Due to the overall cost of producing well water, including pump tax, power, operation and maintenance expenses, and amortization, it is cost-effective for the City to maximize use of water from SF RWS and SCVWD.

The City has 10 ground storage tanks, with a minimum of 1 storage tank in every zone, and additional tanks located at water plants in the City.

The potable distribution system is completely interconnected and includes 3 pressure zones, 21 booster pumps, 3,310 fire hydrants, more than 10,000 manual and automatic valves, and 280 miles of mains. Recycled non-potable water is used for irrigation services.

Water Supply and Demand

Supply by Source	Actual FY 18-19 (ccf)	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)
San Francisco Water	4,394,289	4,552,465	4,686,275	4,490,365
Santa Clara Valley WD	3,560,568	3,883,226	4,051,093	3,561,374
Local Groundwater	40,358	40,733	36,312	58,775
Surface Water	0	0	0	0
Recycled Water	242,246	255,326	83,796	134,003
Other	0	0	0	0
Total	8,237,461	8,731,750	8,857,476	8,244,518
mgd equivalent	16.08	17.89	18.15	16.90

Demand by Sector

Residential	4,715,659	4,825,227	5,120,577	4,578,634
Commercial/Industrial	1,728,835	1,585,185	1,495,257	1,525,048
Other	142,209	98,796	100,508	90,000
Dedicated Irrigation	1,427,092	1,466,128	1,689,040	1,370,146
Non-Revenue Water	223,666	756,414	452,095	680,690
Total	8,237,461	8,731,750	8,857,476	8,244,518
mgd equivalent	16.88	17.89	18.15	16.90

Per Capita Use	Actual FY 18-19 (gpcpd)	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)
Residential	63	63	67	60
Gross (Less Recycled Water)	107	111	115	106

Facilities and Distribution

Storage Reservoirs

Designation	Type	Capacity (gallons)	Designation	Type	Capacity (gallons)
Wolfe-Evelyn	Steel	5,000,000	Central 1	Steel	500,000
Mary-Carson 1	Steel	5,000,000	Central 2	Steel	500,000
Mary-Carson 2	Steel	5,000,000	Hamilton 1	Steel	500,000
Wright Avenue 1	Steel	5,000,000	Hamilton 2	Steel	500,000
Wright Avenue 2	Steel	5,000,000	Hamilton 3	Steel	500,000
			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

Westborough Water District

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

Service Area

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

System

Profile

Area Size	1 square mile
Service Population	13,486
Number of Accounts	3,964
Number of SF RWS Connections	1
Connections to SF RWS Mains	San Andreas 1, 2, and 3
Avg. Day Demand (mgd)	0.67
Avg. Day Purchases from SF RWS (mgd)	0.62
% Demand Met with SF RWS Supplies	92%
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 WWD distribution system includes 3 storage tanks, 2 pumping stations, 5 pumps, and 24 miles of mains. In addition to the Christen Hill Reservoir intertie with NCCWD, the district has an intertie with Daly City.

Water Supply and Demand

Supply by Source	Actual FY 18-19 (ccf)	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)
San Francisco Water	379,833	400,616	373,994	301,090
Local Groundwater	0	0	0	0
Surface Water	0	0	0	0
Recycled Water	0	0	0	0
Other	0	0	0	26,041
Total	379,833	400,616	373,994	327,131
mgd equivalent	0.78	0.82	0.77	0.67

Demand by Sector

Residential	281,152	293,470	298,605	272,559
Commercial/Industrial	34,958	33,950	28,811	30,987
Other	0	0	9	0
Dedicated Irrigation	39,384	36,286	43,134	35,092
Non-Revenue Water	24,339	36,910	3,435	-11,507
Total	379,833	400,616	373,994	327,131
mgd equivalent	0.78	0.82	0.77	0.67

Per Capita Use	Actual FY 18-19 (gpcpd)	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)
Residential	45	47	45	41
Gross	57	65	57	50

Facilities and Distribution**Storage Reservoirs**

Designation	Type	Capacity (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

Interties

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