

ANNUAL SURVEY



April
2024

Fiscal Year 2022-23

BAWSCA
Bay Area Water Supply & Conservation Agency

Bay Area Water Supply and Conservation Agency FY 2022-23

- 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

APRIL 2024

BAWSCA WATER FACTS AT-A-GLANCE – FY 2022-23

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	760,542	16
Santa Clara County	117	603,093	8
Alameda County	166	506,954	2
Total	468	1,870,589	26

Supply by Source

	ccf	mgd	af	%
San Francisco RWS	57,535,047	117.91	132,082	66.8%
Groundwater	8,998,241	18.44	20,657	10.4%
Surface Water	2,827,560	5.79	6,491	3.3%
Recycled Water	3,463,149	7.10	7,950	4.0%
Other Sources	13,368,288	27.40	30,689	15.5%
Total	86,192,285	176.64	197,870	100%

Demand by Sector

	ccf	mgd	af	%
Residential	49,918,061	102.30	114,596	57.9%
Commercial/Industrial	18,162,254	37.22	41,695	21.1%
Government/Institutional/Other	4,006,730	8.21	9,198	4.6%
Dedicated Irrigation	7,630,849	15.64	17,518	8.9%
Non-Revenue Water	6,474,391	13.27	14,863	7.5%
Total	86,192,285	176.64	197,870	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

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Annual Survey

FISCAL YEAR 2022-23

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 760,000 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.

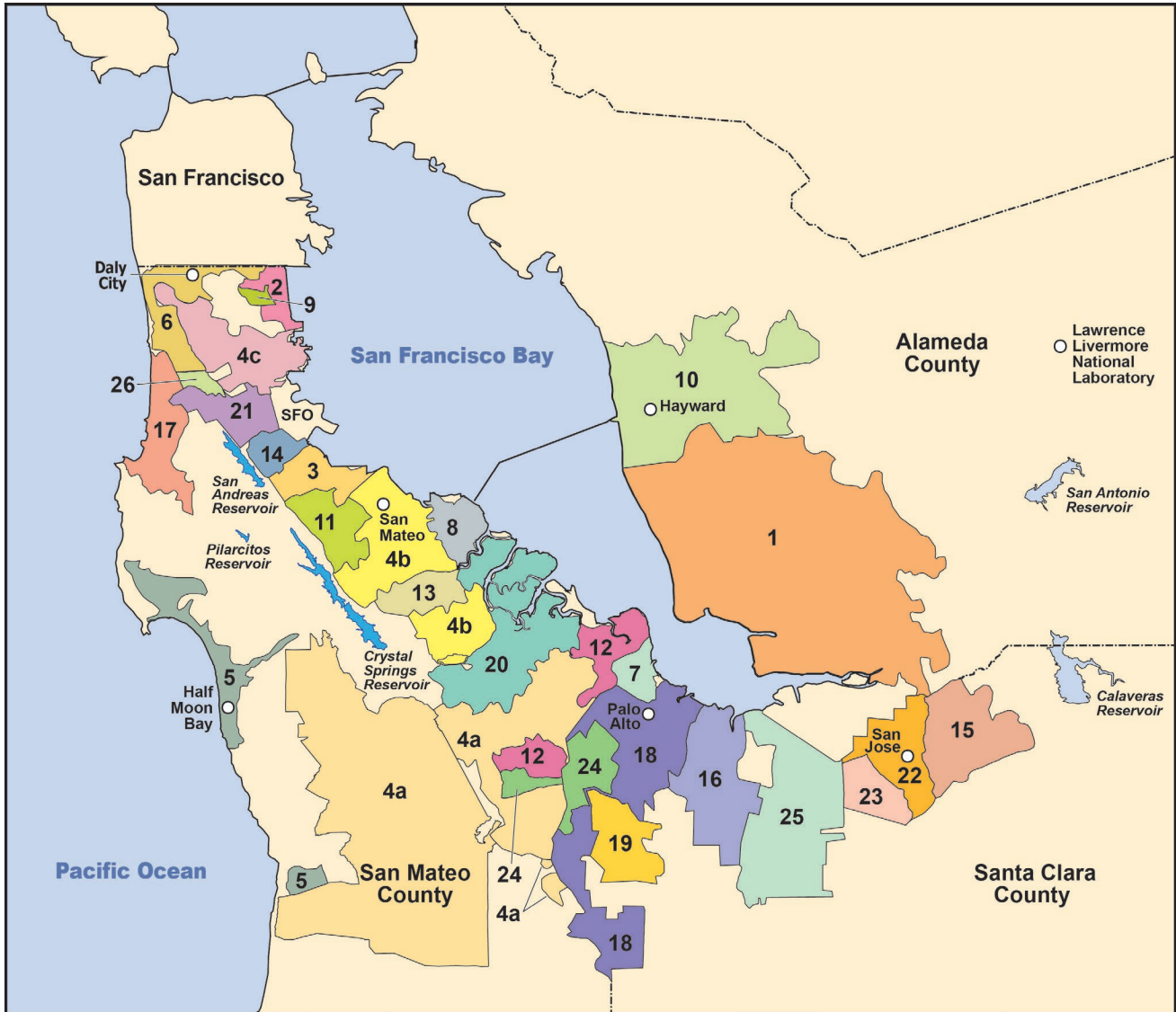
Santa Clara County

In Santa Clara County, BAWSCA and its member agencies serve a population of approximately 603,000 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 506,000 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:

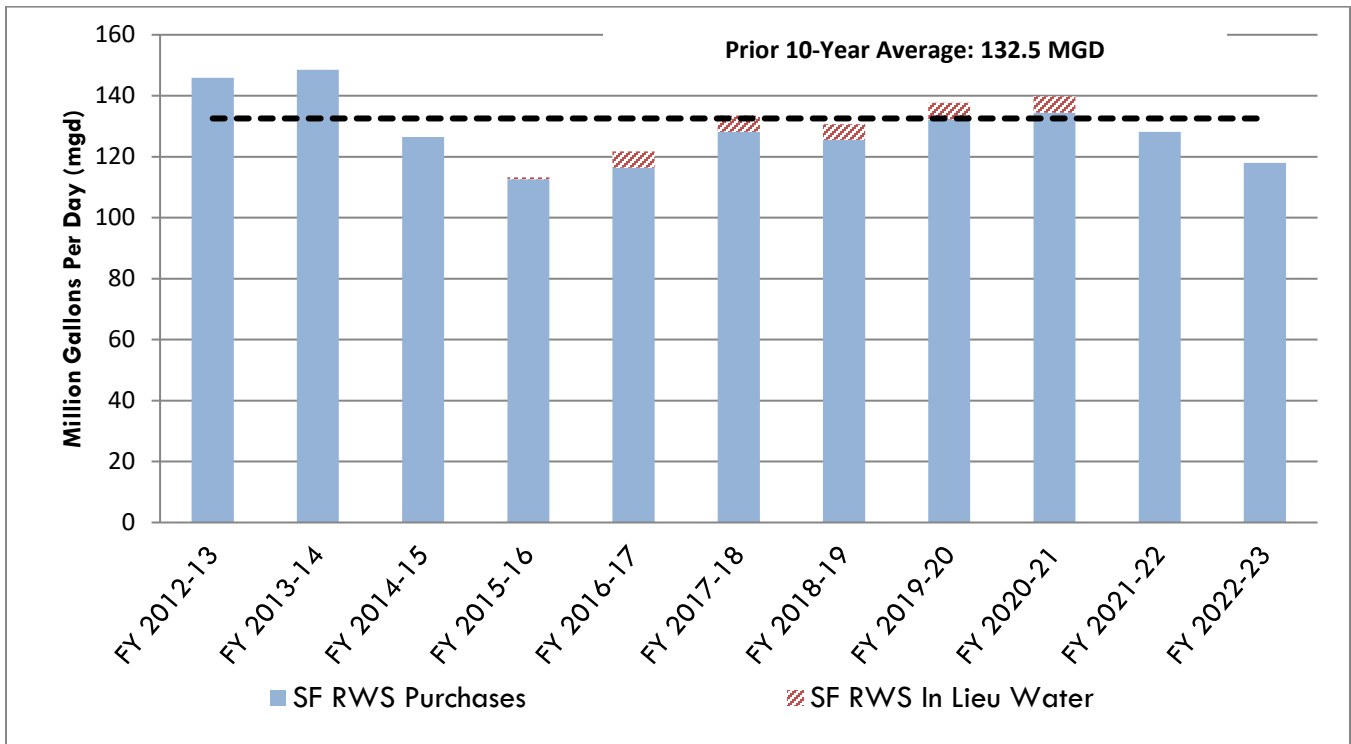
- Current water supply from each source
- Current and projected water purchases from SF RWS
- Projected water supplies and demands
- Consumption by customer class
- Current and projected population
- Per capita water use
- Single family water bills and rate structures
- BAWSCA member agency profiles

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 2022-23, the BAWSCA member agencies reported SF RWS purchases of 117.91 mgd, 8% lower than the total of 128.11 mgd purchased in FY 2021-22. BAWSCA member agencies reported no In Lieu Water deliveries in FY 2022-23 due to dry conditions. Compared with the prior ten-year average, total purchases in FY 2022-23 were below average by 14.64 mgd. When compared to FY 2013-14, the highest year in the prior ten-year period, FY 2022-23 purchases were lower by 30.6 mgd, a difference of about 21%.

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 2022, BAWSCA notified the SFPUC that the projected BAWSCA member agency purchases in FY 2035-36 are projected to be about 160 mgd. In FY 2045-46, BAWSCA member agency purchases from the SF RWS are projected to reach 170 mgd.

TOTAL WATER SUPPLY AND DEMAND

Current Water Supply by Source

The sources of supply used by BAWSCA member agencies are very consistent on a percentage basis, 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 2022-23, 66.8% came from the SF RWS and 33.2% came from other sources. These other sources included:

- Groundwater (18.44 mgd, 10.4%);
- Local surface water, primarily from ACWD’s take from Lake Del Valle (5.79 mgd, 3.3%);
- Other supplies from the Santa Clara Valley Water District, the State Water Project, and ACWD’s brackish water desalination (27.40 mgd, 15.5%); and
- Recycled water (7.10 mgd, 4.0%).

Figure ES-2: FY 2022-23 Water Use by Source

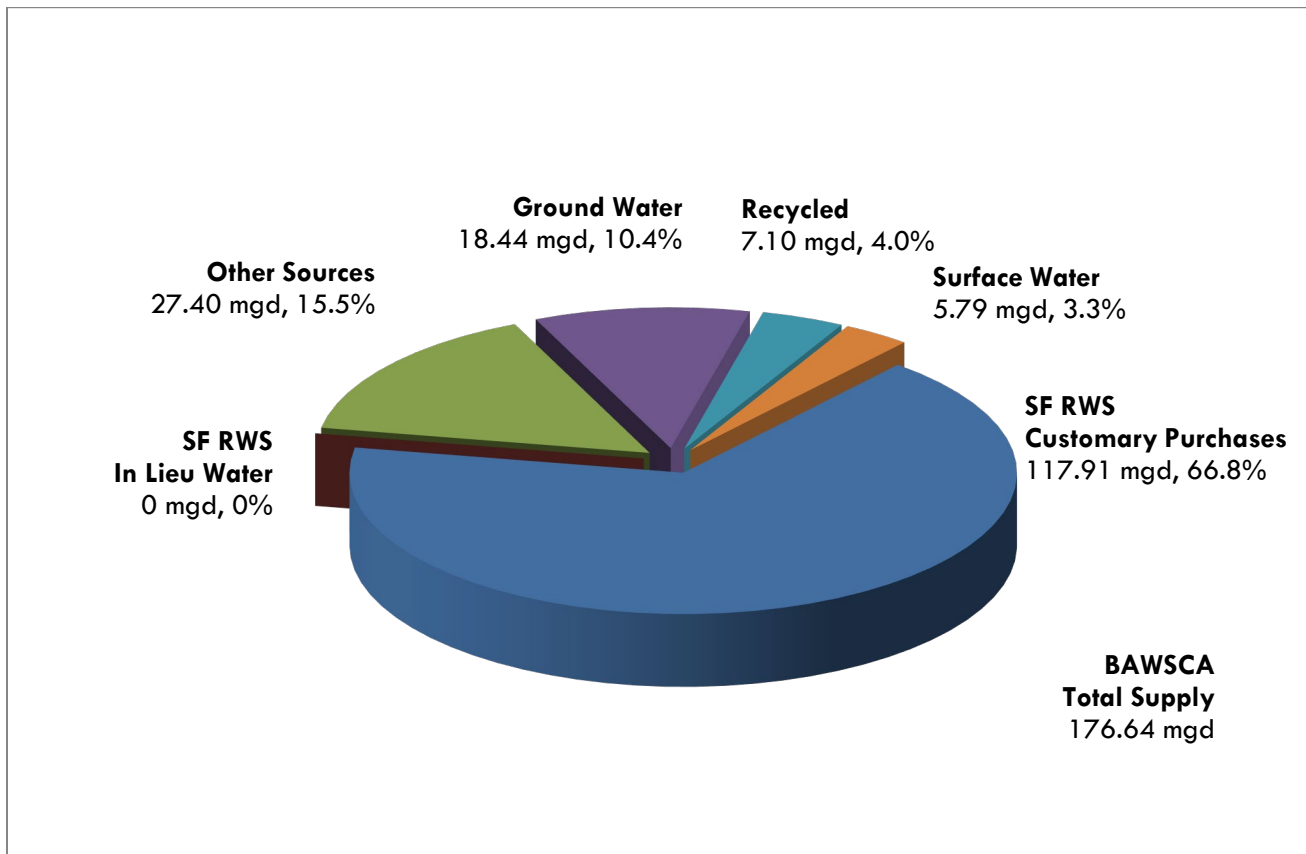
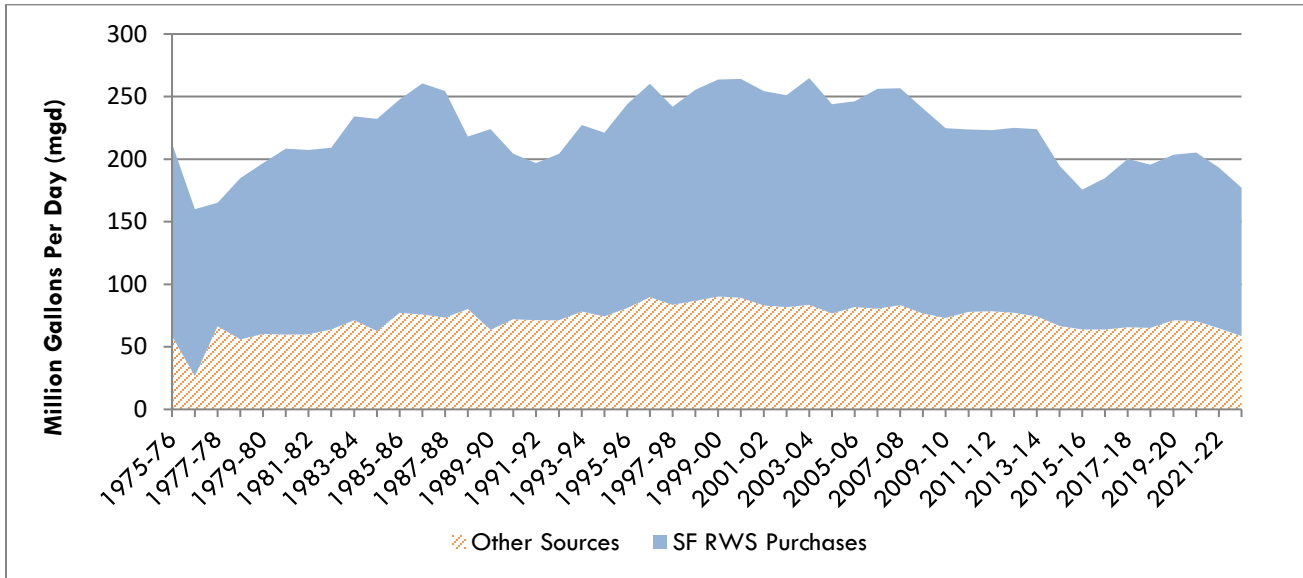


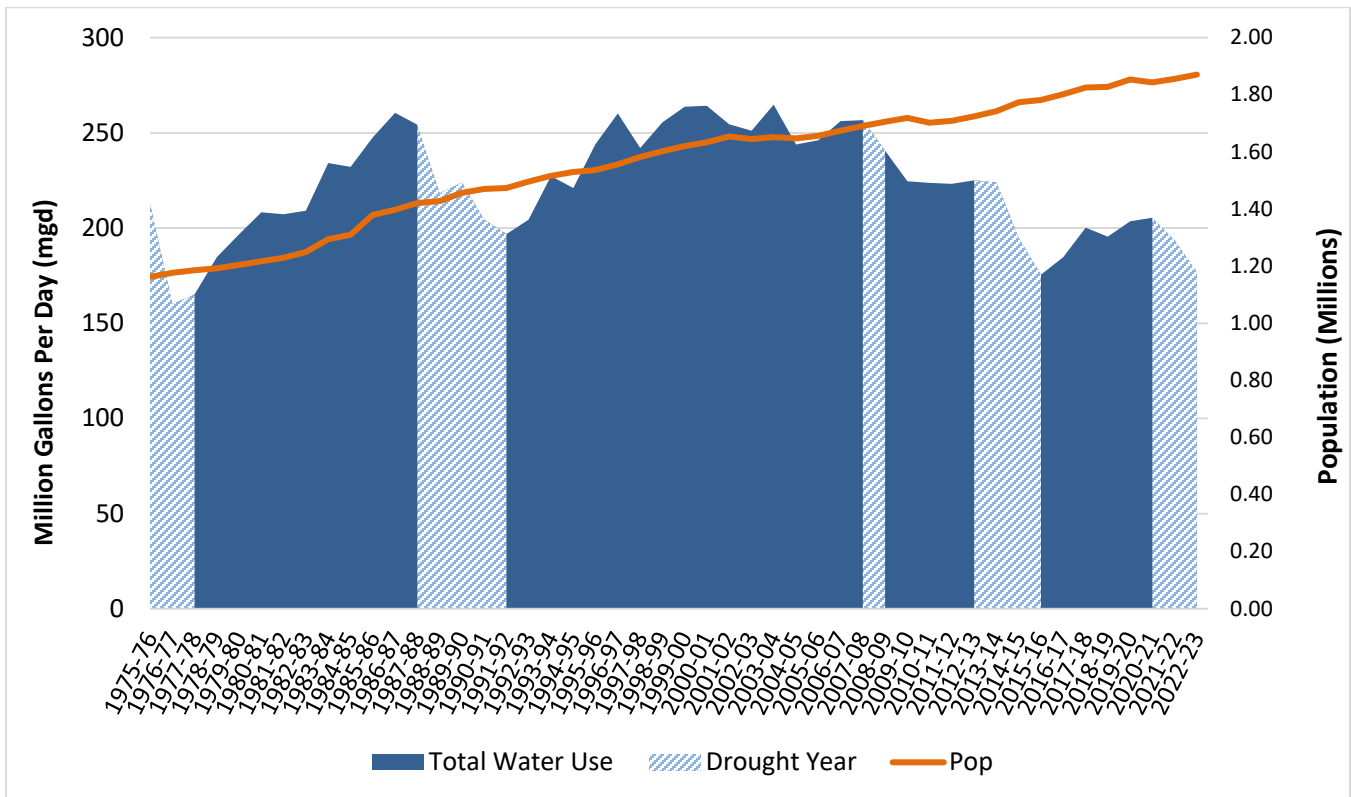
Figure ES-3: Past and Current Water Supply



Current BAWSCA-Wide Total Water Demand

For FY 2022-23, total water demand in the BAWSCA service area, including SFPUC purchases and other sources, was 176.64 mgd. In comparison, in FY 1996-97, BAWSCA-wide demand reached 260 mgd. When compared to FY 2012-13, water used in the BAWSCA service area was 21% less in FY 2022-23. In FY 2022-23, 32% less water was used in the service area compared to the peak year, FY 1986-87, despite a 34% 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 267.22 mgd by FY 2045-46 (Source: BAWSCA FY 2022-23 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 170.49 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

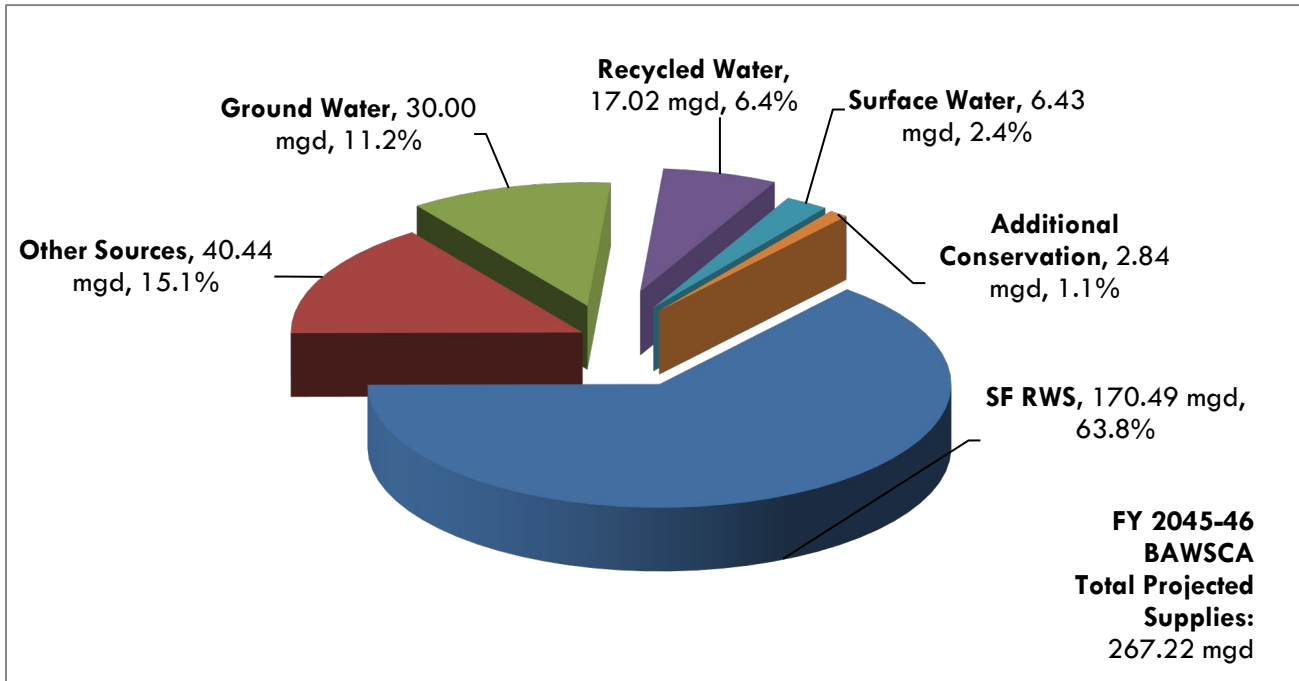
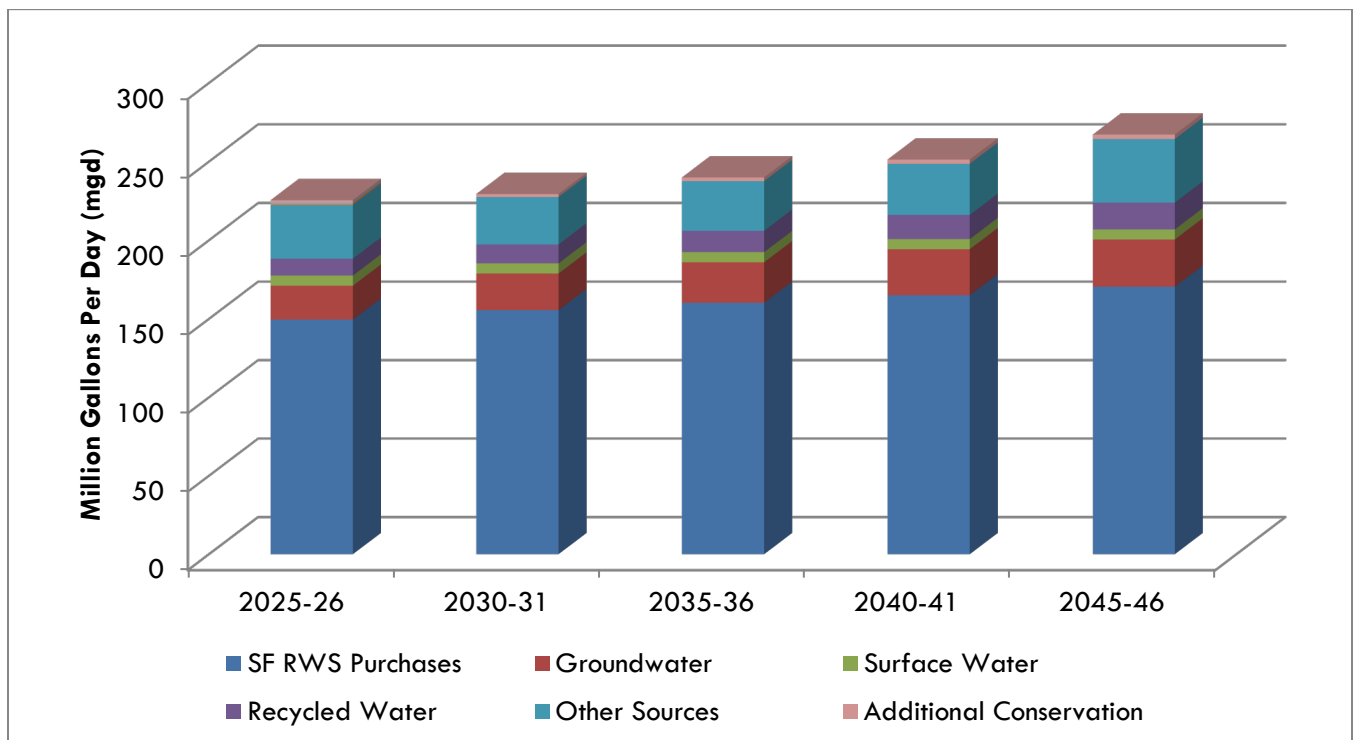


Figure ES-6: Projected Normal Year Water Supplies by Source



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.

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 Drought Response Implementation Plan

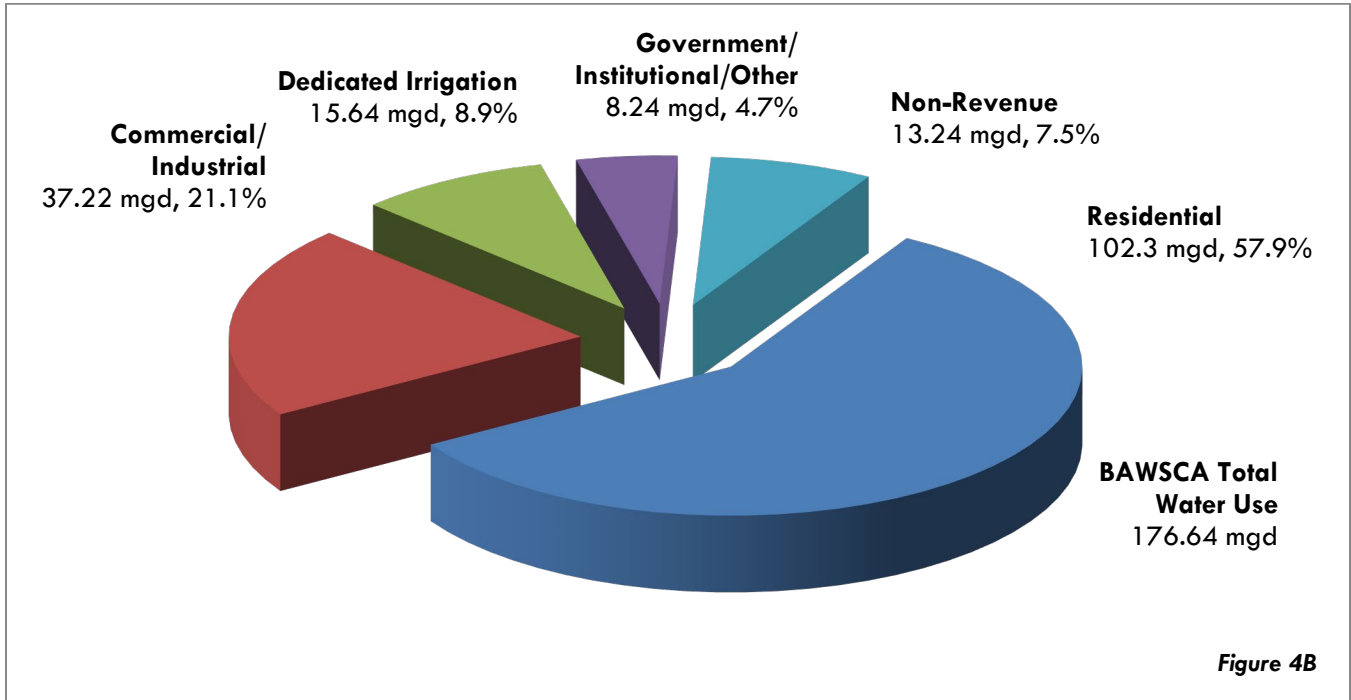
Shortages on the Regional Water System are governed by two plans. The Tier 1 Plan apportions water between the San Francisco retail customers and Wholesale Customers collectively. The Tier 2 Plan is the methodology for allocating water among the Wholesale Customers. The Tier 1 and Tier 2 Plan apply to 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 23-24.

CURRENT WATER USE BY CLASS OF CUSTOMER

As with the source of supply, BAWSCA's demand by customer class is relatively consistent over time on a percentage basis. Of the 176.64 mgd consumed among BAWSCA agencies in FY 2022-23 the residential sector accounted for 57.9% (102.30 mgd); commercial and industrial customers for 21.1% (37.22 mgd); government, institutional and other customers for 4.6% (8.21 mgd); dedicated irrigation for 8.9% (15.64 mgd); and non-revenue water for 7.5% (13.27 mgd).

In FY 2022-23, there were 439,947 accounts (service connections) in the entire BAWSCA service area, 88%, or 388,934, of which were residential.

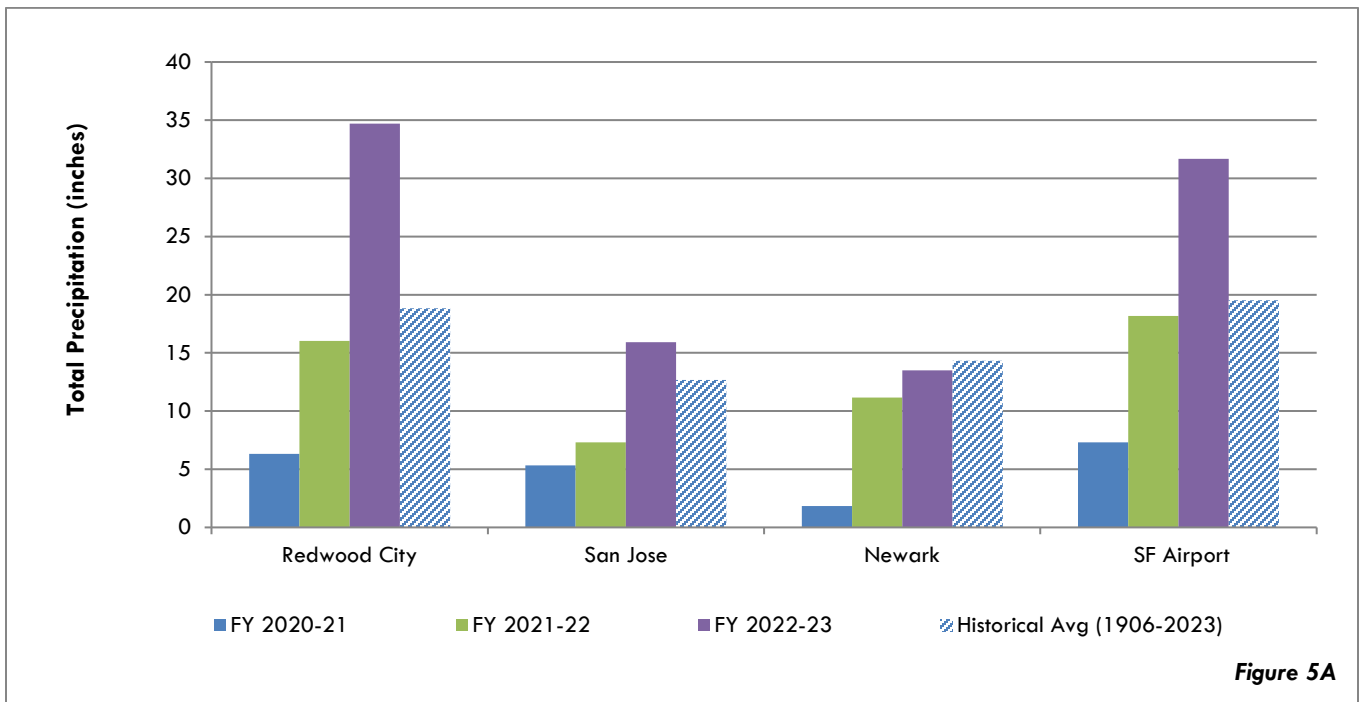
Figure ES-7: FY 2022-23 Water Use by Customer Class



CLIMATE DATA

FY 2022-23 was a wet year due to several storms in the winter months, with rainfall totals recorded at 4 representative locations in the BAWSCA service area that were, on average, 47% higher than the historical average from 1906 - 2023. In FY 2020-21 and FY 2021-22, rainfall totals recorded at these locations were 68% below average and 19% below average, respectively.

Figure ES-8: Historic and Current Precipitation Levels



POPULATION AND PER CAPITA WATER USE

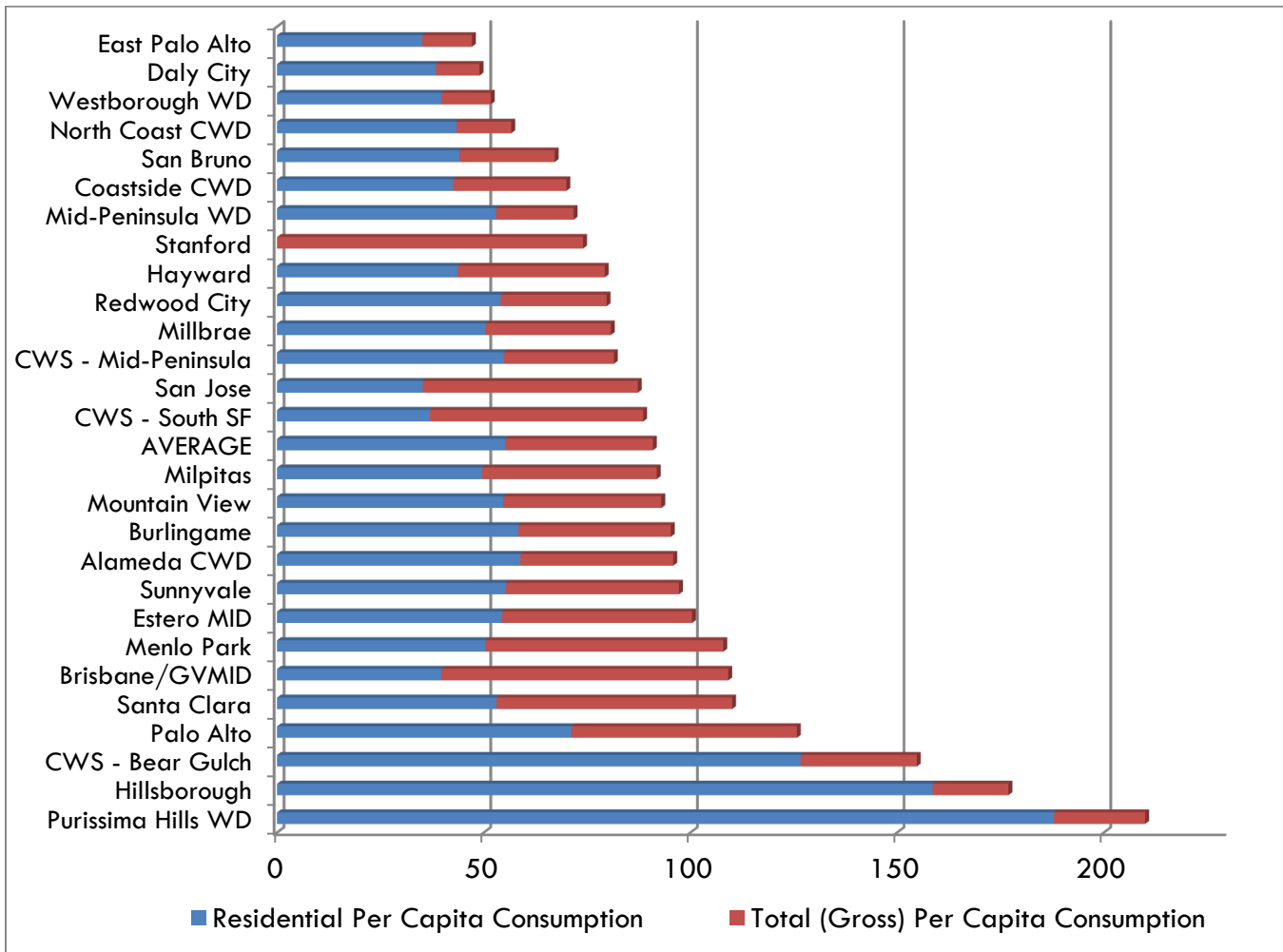
The population of the BAWSCA service area is estimated to have increased from 1,855,289 to 1,870,589 between FY 2021-22 and FY 2022-23. The BAWSCA service area population is projected to reach 2,405,387 by FY 2045-46.

Average residential per capita consumption (excluding Stanford) in the BAWSCA service area was 55.11 gpcd in FY 2022-23, 8% less than the year before. This is 52% less than the estimated peak residential per capita consumption of 114.9 gpcd in FY 1975-76. In FY 2022-23, East Palo Alto had the lowest residential per capita consumption at 35.03 gpcd while Purissima Hills WD had the highest at 187.90 gpcd.

In FY 2022-23, twenty-two BAWSCA member agencies had residential water use of less than 60 gallons per capita per day (gpcd), fourteen of which were below the service area average of 55 gpcd.

The average gross per capita consumption in the BAWSCA service area was 90.6 gpcd in FY 2022-23, 9% lower than FY 2021-22. 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.

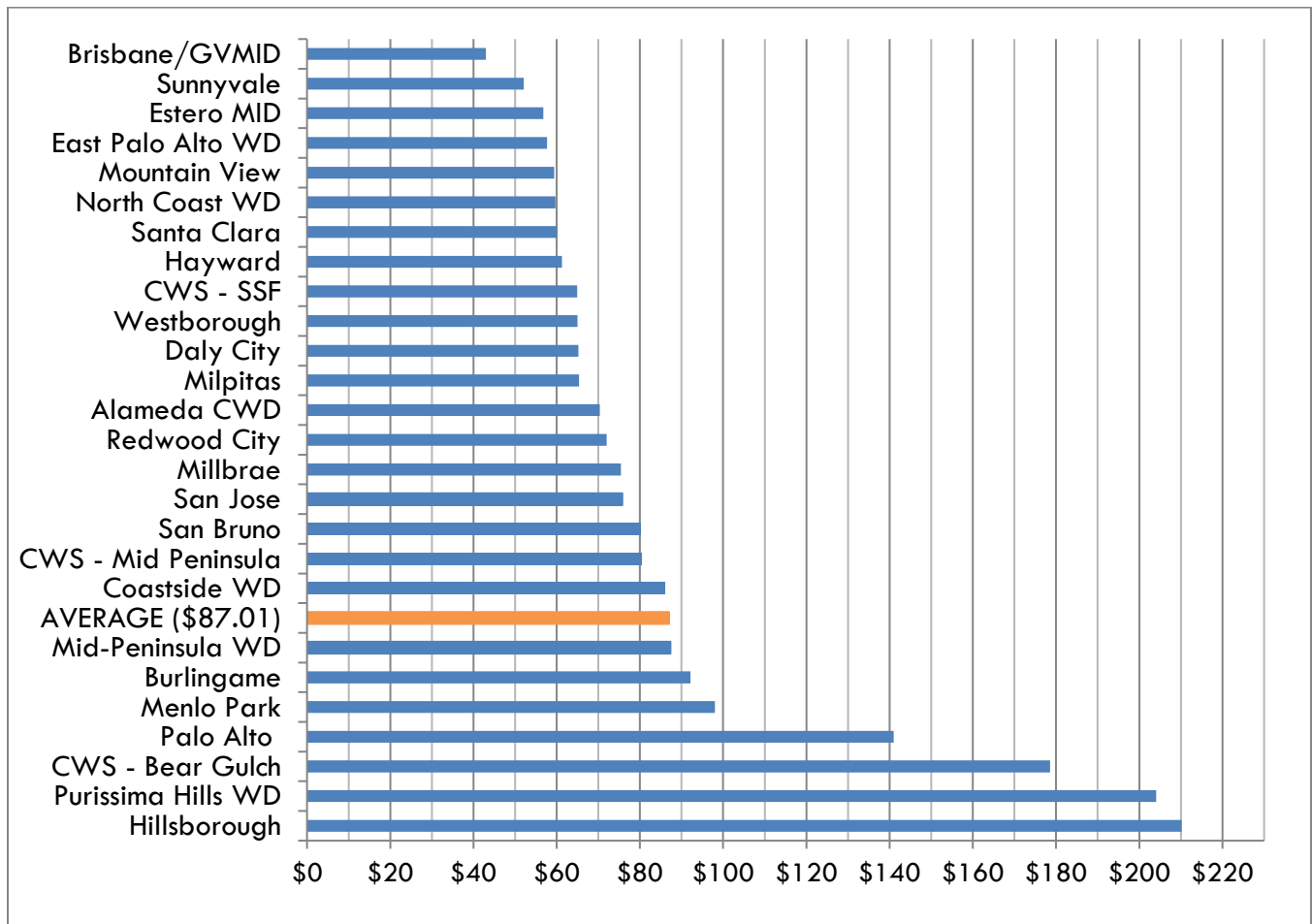
The small residential population base for Brisbane/GVMID artificially inflates the Gross Per Capita Consumption.

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 \$43.02 for 4.2 units in the Brisbane/GVMID service area to a high of \$210.18 for 17.8 units in Town of Hillsborough. The average single-family water bill among the BAWSCA member agencies, inclusive of the service charge, was \$87.01.

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 2022-23, 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

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E-Mail: BAWSCA@BAWSCA.org

Goals

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 344,000 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, 67% of all water delivered by the BAWSCA member agencies came from the SF RWS in FY 2022-23.

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, primarily serves 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 58% of total potable demand in FY 2022-23.

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 2022-23, residential per capita water use was the lowest since FY 2015-16 during the height of the prior drought. Per capita use in the wholesale service area ranged from a low of 37 gallons per capita per day (gpcd) to a high of 188 gpcd. Average residential use is 55 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 2022-23 budget was \$4.75M, 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.

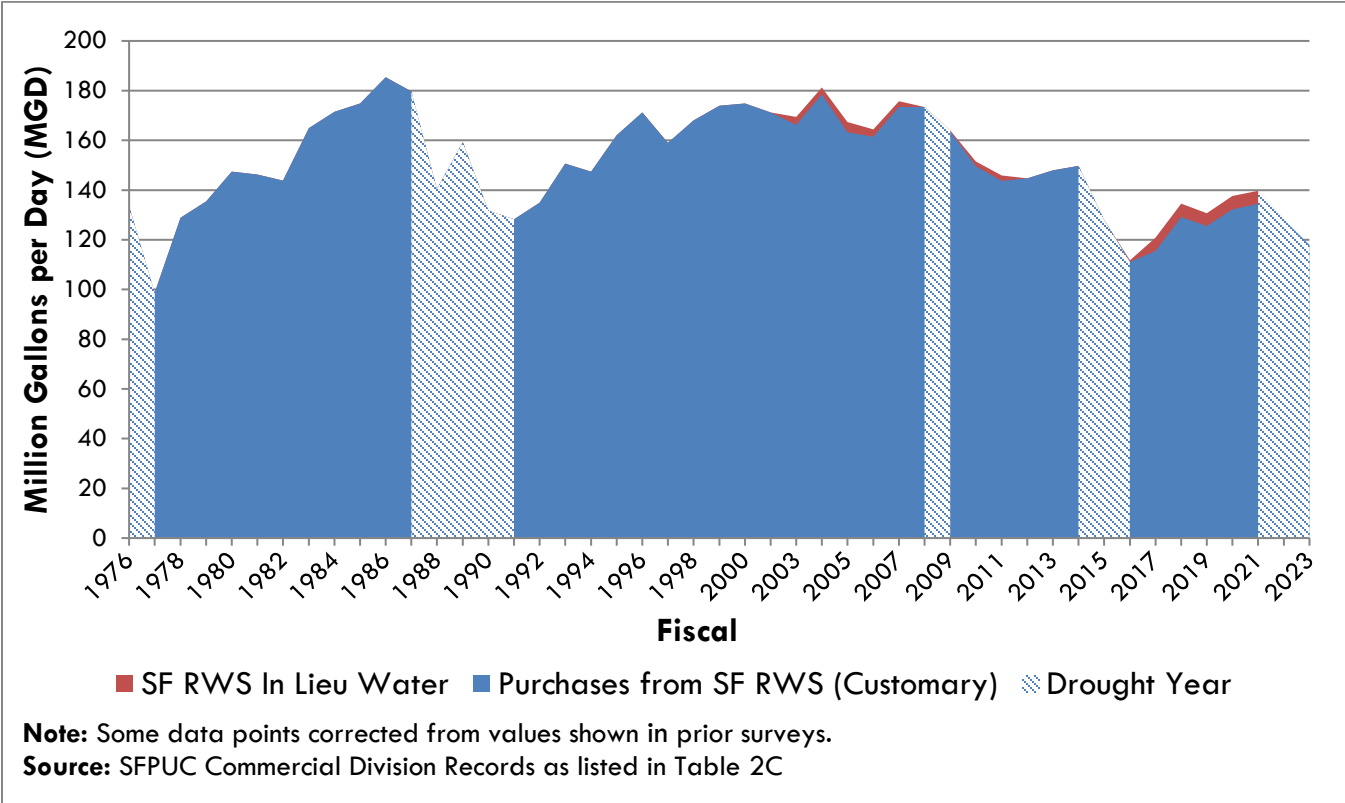
- Monitoring the SFPUC to ensure it operates and maintains the regional water system; including planning and implementing a capital plan to ensure that San Francisco can meet its long term legal and contractual obligations to the wholesale customers in a cost-effective manner with costs fairly allocated between San Francisco retail and BAWSCA member agencies.
- Administering the 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 2022-23

BAWSCA Members Summary - FY 2022-23				
	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	0.53	0.53	Brisbane, nearby unincorporated areas, and GVMID, an industrial park and small residential community within the City of Brisbane
City of Burlingame	31,080	2.96	2.96	City of Burlingame, and nearby unincorporated areas
California Water Service Company	262,704	26.25	26.33	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	60,982	9.44	9.44	
CalWater-MP	137,660	11.22	11.22	
CalWater-SSF	64,062	5.60	5.67	
Coastside County Water District	18,890	0.71	1.32	Half Moon Bay and nearby unincorporated areas
City of Daly City	107,000	3.14	5.78	Daly City and nearby unincorporated areas
City of East Palo Alto	29,519	1.38	1.39	City of East Palo Alto, Menlo Park, and nearby unincorporated areas
Estero Municipal Improvement District	37,443	3.76	3.76	Foster City and small parts of San Mateo
Town of Hillsborough	11,592	2.05	2.05	Hillsborough and nearby unincorporated areas
City of Menlo Park	20,319	2.19	2.19	Menlo Park west of Altschul Avenue and east of El Camino Real. Portions of Redwood City & Town of Portola Valley
Mid-Peninsula Water District	30,159	2.16	2.16	Belmont, a portion of San Carlos, and nearby unincorporated areas
City of Millbrae	21,579	1.74	1.74	Millbrae and nearby unincorporated areas
North Coast County Water District	37,082	2.10	2.13	Pacifica and nearby unincorporated areas
City of Redwood City	90,928	7.25	7.74	Redwood City, parts of San Carlos and Woodside, and nearby unincorporated areas
City of San Bruno	43,910	1.22	2.95	San Bruno and nearby unincorporated areas
Westborough Water District	13,486	0.70	0.70	South San Francisco
Subtotal	760,542	58.13	63.73	
Santa Clara County				
City of Milpitas	81,067	4.57	8.15	Milpitas
City of Mountain View	81,501	6.72	7.95	Mountain View and nearby unincorporated areas
City of Palo Alto	68,624	8.63	9.56	Palo Alto and nearby unincorporated areas
Purissima Hills Water District	6,245	1.31	1.31	Los Altos Hills and unincorporated areas
San Jose Municipal Water District	43,036	3.72	4.45	North San Jose/Alviso and nearby unincorporated areas
City of Santa Clara	132,476	2.88	17.63	Santa Clara and nearby unincorporated areas
Stanford University	33,827	1.39	2.50	Stanford University
City of Sunnyvale	156,317	7.92	15.31	Sunnyvale and nearby unincorporated areas
Subtotal	603,093	37.15	66.86	
Alameda County				
Alameda County Water District	344,000	9.71	32.97	Union City, Newark, Fremont and nearby unincorporated areas
City of Hayward	162,954	12.91	13.07	Hayward and nearby unincorporated areas
Subtotal	506,954	22.62	46.04	
Total All Agencies	1,870,589	117.9	176.64	
*Includes SF RWS In Lieu Water (if applicable)				
Source: BAWSCA FY 2022-23 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	mgd	Predrought	mgd	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	mgd	2021-22/ 2020-21	2022-23 Purchases as % of Guarantee
	Guarantee	Equiv	FY 1986-87	Equiv	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 2022-23	Equiv	% Change	Guarantee
San Mateo County																		
* Brisbane **	224,435	0.46	171,507	0.35	287,290	302,776	280,029	257,414	294,756	334,217	323,917	310,127	303,604	298,906	258,323	0.53	-13.6	53.9
* Burlingame	2,553,753	5.23	2,531,707	5.19	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	1,444,244	2.96	-12.0	56.6
California Water Service *	17,320,807	35.50	17,393,987	35.65	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	12,809,434	26.25	-8.9	74.0
Coastside CWD	1,061,453	2.18	600,257	1.23	885,896	940,214	727,298	575,225	515,655	464,037	547,861	496,627	705,680	468,075	346,993	0.71	-25.9	32.7
Daly City	2,094,386	4.29	2,264,684	4.64	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	1,530,084	3.14	-13.9	73.1
* East Palo Alto	1,689,714	3.46	1,041,989	2.14	1,008,253	723,320	768,310	690,728	734,911	772,528	763,315	764,033	743,205	699,368	672,814	1.38	-3.8	39.8
* Estero MID	2,878,807	5.90	2,854,051	5.85	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	1,833,938	3.76	-2.8	63.7
* 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	1,609,532	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	1,000,717	2.05	-12.3	50.1
Los Trancos			34,848	0.07														
* Menlo Park	2,174,231	4.46	1,958,458	4.01	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	1,070,006	2.19	-10.5	49.2
* Mid-Peninsula WD	1,898,707	3.89	1,888,074	3.87	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	1,055,377	2.16	-10.0	55.6
* Millbrae	1,538,120	3.15	1,528,426	3.13	1,113,147	1,134,741	991,049	899,785	918,695	992,853	949,277	927,939	906,122	900,514	850,047	1.74	-5.6	55.3
* North Coast CWD	1,872,928	3.84	1,618,649	3.32	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	1,024,588	2.10	-4.1	54.7
* Redwood City	5,333,115	10.93	5,253,772	10.77	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	3,536,397	7.25	-8.3	66.3
San Bruno	1,583,899	3.25	1,748,600	3.58	946,503	779,582	584,392	637,586	383,693	419,589	420,116	465,406	444,989	507,220	593,241	1.22	17.0	37.5
Skyline			62,726	0.13														
* Westborough WD	644,172	1.32	585,151	1.20	441,233	433,980	377,034	390,753	356,722	383,996	379,833	400,616	373,994	301,090	339,960	0.70	12.9	52.8
Subtotal	45,118,607	92.46	43,688,110	89.53	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	28,366,163	58.13	-8.4	62.9
Santa Clara County																		
Milpitas	4,504,533	9.23	4,370,757	8.96	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	2,230,517	4.57	-0.9	49.5
Mountain View	6,079,714	12.46	6,435,554	13.19	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	3,279,562	6.72	-8.4	53.9
* Palo Alto	8,087,730	16.57	8,009,767	16.41	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	4,210,400	8.63	-10.6	52.1
* Purissima Hills	792,832	1.62	755,077	1.55	972,733	982,100	803,313	640,369	689,261	814,270	770,703	851,999	925,721	799,210	639,836	1.31	-19.9	80.7
San Jose	0	0.00	1,541,153	3.16	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	1,817,070	3.72	-9.3	n/a
Santa Clara	0	0.00	2,429,766	4.98	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	1,407,256	2.88	-7.1	n/a
Stanford	1,479,764	3.03	1,485,396	3.04	1,024,012	1,024,277	923,813	679,394	695,088	725,276	697,159	699,352	659,830	714,224	677,245	1.39	-5.2	45.8
Sunnyvale	6,138,122	12.58	7,228,076	14.81	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	3,866,964	7.92	-13.9	63.0
Subtotal	27,082,695	55.50	32,255,546	66.10	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	18,128,850	37.15	-9.7	66.9
Alameda County																		
Alameda CWD	6,714,439	13.76	6,039,273	12.38	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	4,738,636	9.71	2.5	70.6
* Hayward 1	6,821,848	13.98	8,504,158	17.43	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	6,301,398	12.91	-8.1	92.4
Residual 1	4,048,507	8.30																
Subtotal	17,584,794	36.04	14,543,431	29.80	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	11,040,035	22.62	-3.8	62.8
Total	89,786,096	184.00	90,487,087	185.44	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	57,535,047	117.91	-8.0	64.1
mgd equiv	184.00		185.44		145.88	148.48	126.50	112.64	116.39	128.11	125.54	132.22	134.45	128.11	117.91		-8.0	
Total w/o SC&SJ	89,786,096		86,516,168		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	54,310,721	111.30	-7.9	60.5
mgd equiv	184.00		177.30		139.13	141.75	120.22	106.22	110.25	121.46	118.25	124.69	127.04	120.90	111.30		-7.9	

* 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 0.9 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 2022-23

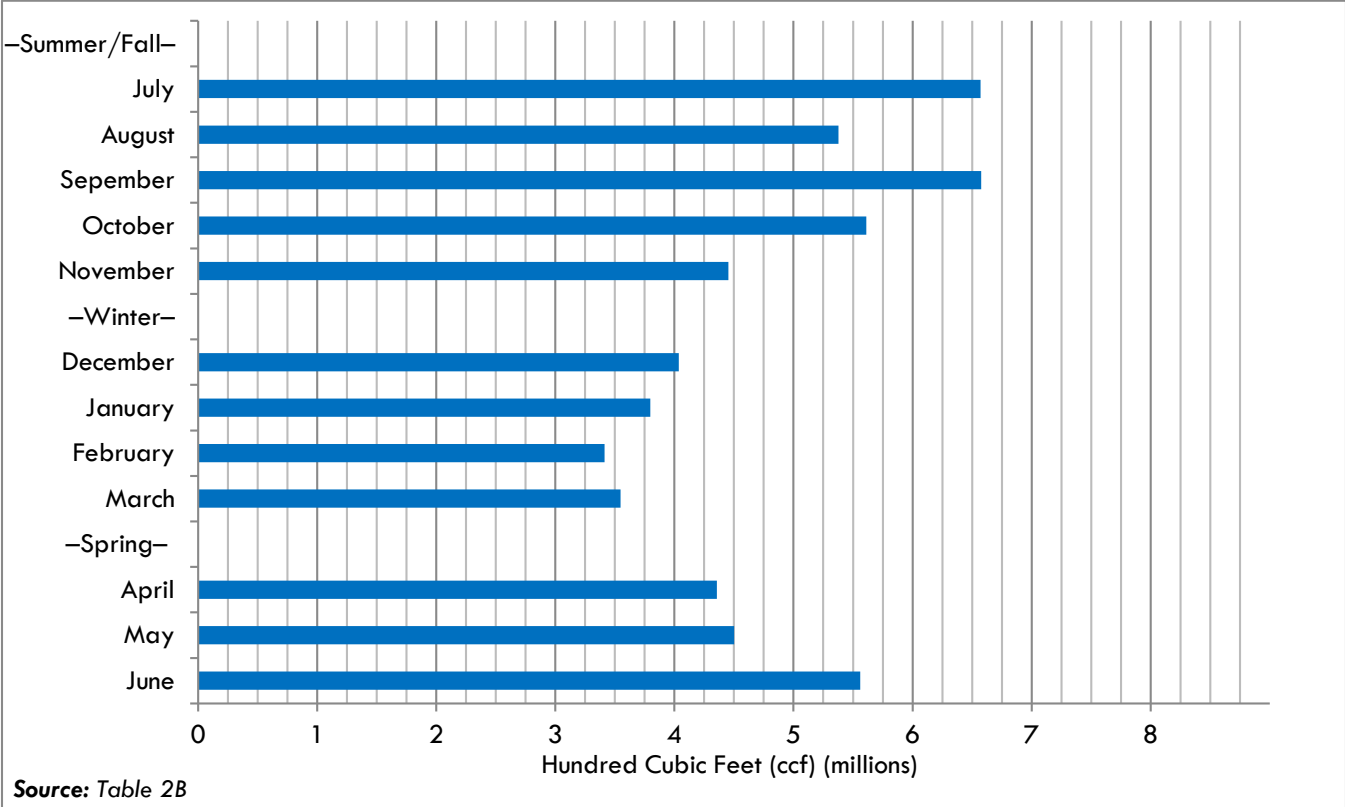


Table 2B: Monthly/Seasonal Purchases from SF RWS Among BAWSCA Members – FY 2022-23 (in ccf) SFPUC Commercial Division Records Data

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	Total	mgd
* Alameda CWD	458,946	334,061	419,635	391,934	267,143	1,871,718	347,959	343,574	295,575	340,532	1,327,640	771,944	595,621	493,383	1,860,948	5,060,306	10.37
Brisbane	20,588	17,168	16,436	16,629	16,814	87,635	13,133	14,355	12,161	12,079	51,728	14,893	13,396	19,347	47,635	186,999	0.38
Burlingame	158,513	150,234	172,872	162,584	127,631	771,835	114,902	112,011	101,293	111,294	439,500	111,854	117,567	146,976	376,397	1,587,732	3.25
* CWS - Bear Gulch	623,777	530,098	683,475	522,036	342,755	2,702,142	248,234	212,564	178,340	182,517	821,656	227,783	363,476	533,282	1,124,542	4,648,339	9.53
CWS - Mid Peninsula	620,892	483,632	660,718	488,479	430,391	2,684,112	394,670	381,014	339,407	341,725	1,456,816	380,813	406,640	557,482	1,344,935	5,485,862	11.24
* CWS - South SF 2	295,939	231,892	296,086	244,672	223,854	1,292,444	212,325	195,620	185,280	204,087	797,312	184,843	196,647	250,366	631,856	2,721,612	5.58
* Coastside CWD	57,694	49,302	84,118	40,212	48,251	279,577	17,508	12,454	3,007	4,461	37,430	3,748	26,401	18,518	48,667	365,674	0.75
* Daly City 2	187,714	135,457	180,539	148,610	132,739	785,059	123,893	100,860	102,764	106,827	434,345	116,775	104,624	110,235	331,634	1,551,038	3.18
East Palo Alto	68,155	56,845	67,923	57,795	50,829	301,546	46,119	55,287	47,146	47,837	196,389	54,329	54,716	66,556	175,601	673,536	1.38
Estero MID	210,942	190,457	212,735	162,983	132,664	909,781	108,404	105,440	95,542	93,094	402,480	103,636	128,547	171,025	403,208	1,715,469	3.52
Guadalupe Valley MID	9,563	7,080	7,106	6,871	7,824	38,444	5,312	5,483	4,077	4,172	19,043	5,217	4,934	6,796	16,947	74,434	0.15
Hayward	723,982	516,509	700,278	550,889	475,319	2,966,977	462,782	446,664	406,399	453,995	1,769,840	451,616	477,616	477,616	1,406,848	6,143,665	12.59
Hillsborough	149,710	135,665	160,304	113,399	82,898	641,976	50,075	35,472	30,379	32,733	148,659	34,149	68,725	114,439	217,313	1,007,949	2.07
Menlo Park	142,121	122,249	135,613	153,982	79,215	633,181	118,032	66,897	58,454	60,070	303,453	67,361	88,673	118,413	274,447	1,211,081	2.48
Mid-Peninsula WD	122,334	91,942	126,103	103,376	82,471	526,226	82,114	67,895	61,471	64,796	276,275	130,919	79,211	109,114	319,245	1,121,746	2.30
Millbrae	75,690	64,654	76,201	65,857	51,007	333,409	49,973	49,850	44,745	46,684	191,251	50,214	49,639	65,510	165,362	690,022	1.41
* Milpitas	204,823	216,328	221,466	214,376	168,218	1,025,211	152,070	163,300	152,157	149,934	617,461	179,284	163,701	207,594	550,578	2,193,250	4.49
* Mountain View	369,816	336,942	355,535	342,616	277,000	1,681,908	231,099	213,831	189,152	196,343	830,426	227,809	237,946	310,055	775,810	3,288,144	6.74
* North Coast CWD	85,920	68,120	80,479	84,743	75,540	394,801	71,016	96,054	72,949	68,531	308,550	81,222	96,315	108,689	286,227	989,577	2.03
Palo Alto	546,455	437,467	530,930	426,928	310,274	2,252,053	254,353	250,619	213,050	216,248	934,270	257,997	328,651	437,428	1,024,075	4,210,399	8.63
Purissima Hills WD	91,592	79,096	88,326	85,954	66,804	411,771	36,899	27,343	20,118	20,577	104,936	22,177	41,430	65,250	128,857	645,564	1.32
Redwood City	386,676	339,995	413,044	340,824	268,719	1,749,257	232,895	245,704	205,766	217,796	902,160	227,022	271,987	371,454	870,463	3,521,880	7.22
* San Bruno 2	41,949	46,952	53,787	35,959	33,413	212,060	35,595	38,394	38,464	50,732	163,185	39,829	27,247	67,421	134,497	509,743	1.04
* San Jose MWS-North	219,269	165,856	191,333	194,632	161,522	932,612	142,369	115,329	116,154	120,746	494,598	133,942	130,475	159,315	423,732	1,850,941	3.79
* Santa Clara	114,796	111,812	116,883	129,446	115,660	588,597	114,356	121,863	107,402	106,394	450,015	118,420	107,070	119,342	344,832	1,383,444	2.84
* Stanford University	74,621	59,222	75,133	79,510	54,244	342,731	41,679	35,562	42,088	42,473	161,802	46,716	56,099	69,084	171,899	676,432	1.39
* Sunnyvale	479,682	366,188	421,416	414,202	338,902	2,020,389	287,609	261,697	267,184	224,423	1,040,913	286,978	243,216	357,174	887,368	3,948,671	8.09
Westborough WD	29,495	32,533	28,439	32,245	31,934	154,646	40,364	21,732	21,726	27,075	110,896	25,058	21,096	28,358	74,513	340,055	0.70
Totals	6,571,654	5,377,756	6,576,914	5,611,741	4,454,035	28,592,100	4,035,737	3,796,867	3,412,249	3,548,178	14,793,031	4,356,549	4,501,666	5,560,222	14,418,436	57,803,567	118.46
	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	
				2022-23	28,592,100		2022-23	14,793,031				2022-23	14,418,436		57,803,567	118.46	
	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	2022-23	57,803,567	118.5	132,699	-12.2
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
2022-23	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 2022-23 Annual Survey

Table 2E: SF RWS Drought Declarations (Periods of Drought from 1975 – Present)

Years	SFPUC Water Shortage Emergency Declaration	Additional Details
1976-1977	N/A	•1977 was the driest year on record in California.
1987-1991	N/A	•1987-1991 comprised the second driest period in California's recorded climate history.
2007-2009	N/A	•First statewide proclamation of drought emergency in California's history.
2014-2017	January 31, 2014	<ul style="list-style-type: none"> •SFPUC formally issues a request for voluntary water reduction by 10%. •SFPUC issued a one-time waiver of the minimum purchase requirements.* •April 4, 2017 - SFPUC decalres there was no longer a need for voluntary reductions in water use.
2021-2023	November 23, 2021	<ul style="list-style-type: none"> •SFPUC calls for a voluntary 10% water use reduction for all retail customers. •SFPUC issues waiver of minimum purchase requirements during drought.* •May 24, 2022 - SFPUC adopts systemwide water use reduction of 11% compared to FY 19-20 water use. •April 11, 2023 - SFPUC lifts water shortage emergency declaration and drought surcharge. SFPUC continues to encourage voluntary systemwid water use reduction of 11%.
Notes:		
*Mountain View, Sunnyvale, Milpitas, and Alameda County Water District.		
*Minmum Purchase Requirement waiver years: FY 2014-15, 2015-16, 2016-17, and 2021-22.		
Source: BAWSCA 2014-2017 Drought Report		

3. Total Water Supply and Demand

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

Member	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	FY 2022-23	mgd	
San Mateo County																
Brisbane / GVMID	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	258,323	0.53	
Burlingame	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	1,444,244	2.96	
CWS - Bear Gulch	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	4,605,197	9.44	
CWS - Mid Peninsula	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	5,472,830	11.22	
CWS - South SF	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	2,768,049	5.67	
Coastside CWD	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	644,994	1.32	
Cordilleras								Not BAWSCA Member								
Daly City	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	2,822,660	5.78	
East Palo Alto	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	678,615	1.39	
Estero MID	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	1,833,938	3.76	
Guadalupe Valley MID	152,798							Included with Brisbane								
Hillsborough	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	1,000,717	2.05	
Los Trancos																
Menlo Park	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	1,070,006	2.19	
Mid-Peninsula WD	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	1,055,377	2.16	
Millbrae	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	850,047	1.74	
North Coast CWD	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	1,040,739	2.13	
Redwood City	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	3,776,172	7.74	
San Bruno	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	1,438,582	2.95	
Skyline								Included with CWS-Bear Gulch								
Westborough WD	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	339,960	0.70	
Subtotal	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	31,100,450	63.73	
mgd	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	63.73		
Santa Clara County																
Milpitas	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	3,975,347	8.15	
Mountain View	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	3,879,095	7.95	
Palo Alto	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	4,664,961	9.56	
Purissima Hills WD	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	639,836	1.31	
San Jose	2,187,918	2,239,892	2,356,648	2,354,211	2,676,663	2,521,675	2,391,807	2,325,602	2,626,252	2,513,187	2,499,664	2,534,036	2,481,508	2,172,564	4.45	
Santa Clara	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	8,604,882	17.63	
Stanford	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	1,221,384	2.50	
Sunnyvale	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	7,468,737	15.31	
Subtotal	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	32,626,806	66.86	
mgd	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	66.86		
Alameda County																
Alameda CWD	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	16,086,991	32.97	
Hayward	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	6,378,038	13.07	
Subtotal	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	22,465,029	46.04	
mgd	59.79	59.90	58.85	58.94	56.72	47.93	44.64	47.68	51.56	51.00	52.66	54.45	50.76	46.04		
Total	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	86,192,285	176.64	
mgd	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	176.64		
% Change	-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	-14.0		
Note: Totals inclusive of SF RWS In Lieu Water.																
Source: BAWSCA Annual Surveys																

Table 3B: Historical Total Water Use by 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
2022-23	86,192,285	176.6	197,870	-8.7

*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 2022-23

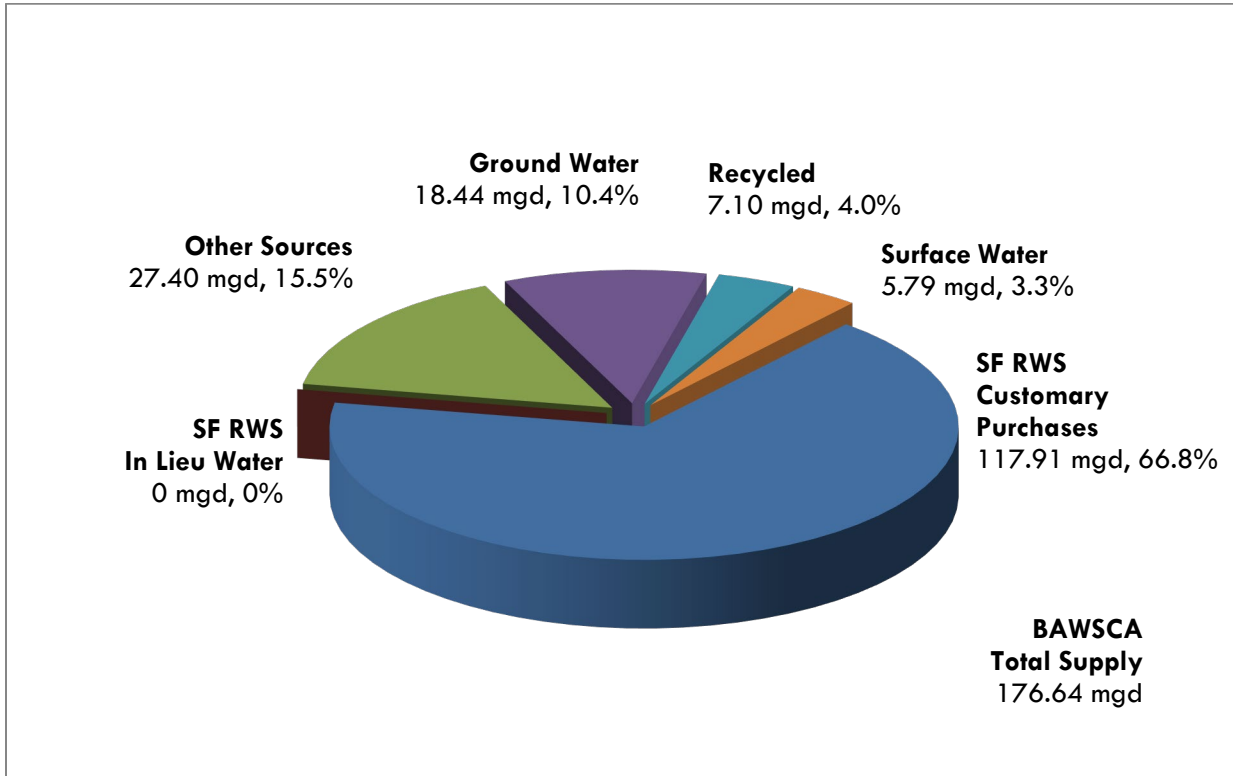
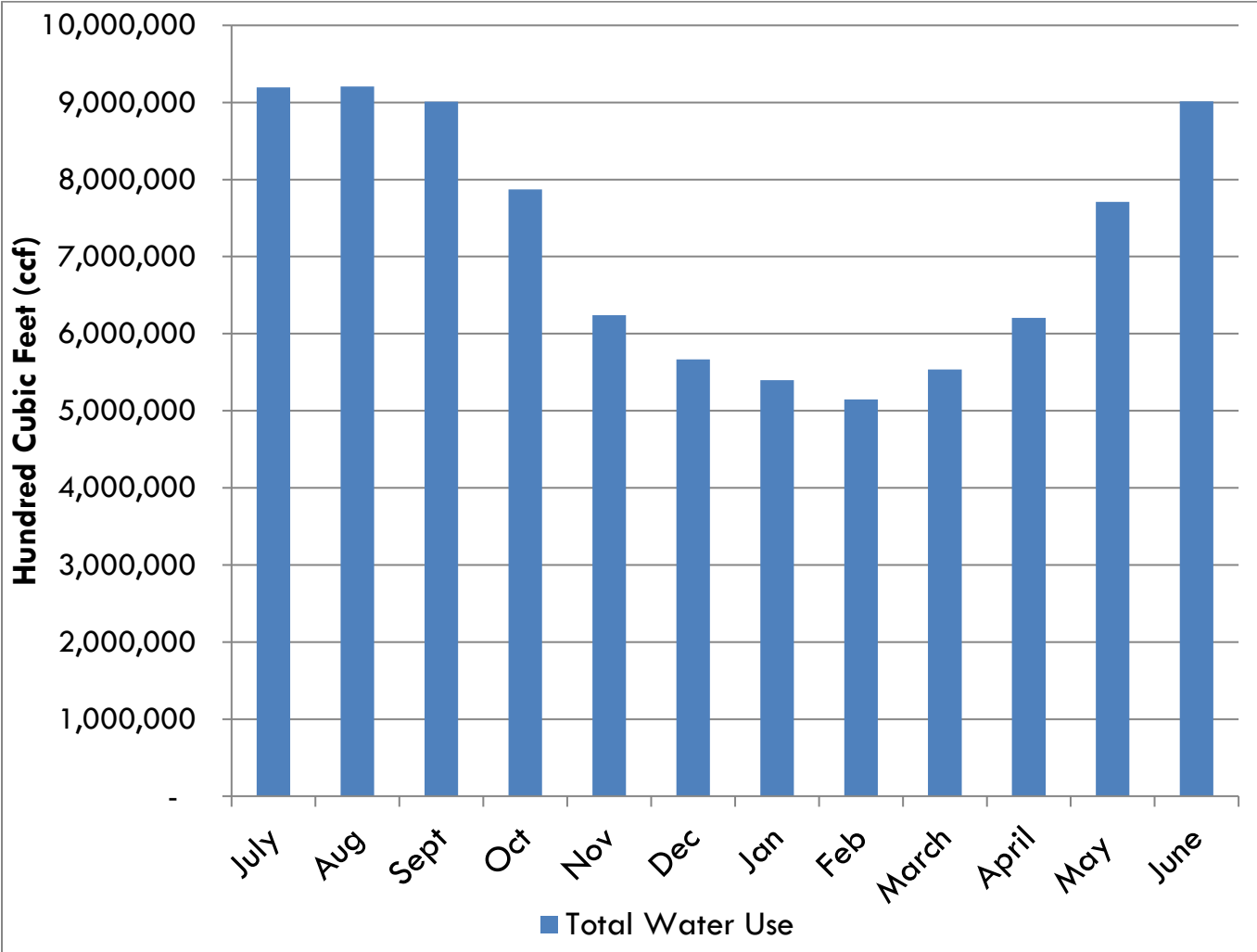


Figure 3D: Total Monthly Water Use for All BAWSCA Agencies – FY 2022-23



Inclusive of SF RWS In-Lieu Water (if applicable) and Non-Revenue Water

Table 3C: Water Use by Source of Supply – FY 2022-23 (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 Equiv	% of Total
San Mateo County														
Brisbane / GVMID	258,323	0	100.0%	0	0%	0	0%	0	0%	0	0%	258,323	0.53	0.30%
Burlingame	1,444,244	0	100.0%	0	0%	0	0%	0	0%	0	0%	1,444,244	2.96	1.68%
CWS - Bear Gulch	4,605,197	0	100.0%	0	0%	0	0.0%	0	0%	0	0%	4,605,197	9.44	5.34%
CWS - Mid Peninsula	5,472,830	0	100.0%	0	0%	0	0%	0	0%	0	0%	5,472,830	11.22	6.35%
CWS - South SF	2,731,407	0	98.7%	36,642	1%	0	0%	0	0%	0	0%	2,768,049	5.67	3.21%
Coastside CWD	346,993	0	53.8%	9,118	1.4%	288,883	44.8%	0	0%	0	0%	644,994	1.32	0.75%
Daly City	1,530,084 *	0	54.2%	1,026,284	36%	0	0%	266,292	9.4%	0	0%	2,822,660	5.78	3.27%
East Palo Alto**	672,814	0	99.1%	5,801	1%	0	0%	0	0%	0	0%	678,615	1.39	0.79%
Estero MID	1,833,938	0	100.0%	0	0%	0	0%	0	0%	0	0%	1,833,938	3.76	2.13%
Hillsborough	1,000,717	0	100.0%	0	0%	0	0%	0	0%	0	0%	1,000,717	2.05	1.16%
Menlo Park	1,070,006	0	100.0%	0	0%	0	0%	0	0%	0	0%	1,070,006	2.19	1.24%
Mid-Peninsula WD	1,055,377	0	100.0%	0	0%	0	0%	0	0%	0	0%	1,055,377	2.16	1.22%
Millbrae	850,047 **	0	100.0%	0	0%	0	0%	0	0%	0	0%	850,047	1.74	0.99%
North Coast CWD	1,024,588	0	98.4%	0	0%	0	0%	16,151	2%	0	0%	1,040,739	2.13	1.21%
Redwood City	3,536,397	0	93.7%	0	0%	0	0%	239,775	6.3%	0	0%	3,776,172	7.74	4.38%
San Bruno	593,241	0	41.2%	845,341	58.8%	0	0%	0	0%	0	0%	1,438,582	2.95	1.67%
Westborough WD	339,960	0	100.0%	0	0%	0	0%	0	0%	0	0%	339,960	0.70	0.39%
Subtotal	28,366,163	0	91.2%	1,923,186	6.2%	288,883	0.9%	522,218	1.68%	0	0.0%	31,100,450	63.73	36.08%
mgd equiv	58.13	0.00		3.94		0.59		1.07		0.00		63.73		
Santa Clara County														
Milpitas	2,230,517	0	56.1%	0	0%	0	0%	342,451	8.6%	1,402,379	35.3%	3,975,347	8.15	4.61%
Mountain View	3,279,562	0	84.5%	50,108	1.3%	0	0%	183,487	5%	365,939	9.4%	3,879,095	7.95	4.50%
Palo Alto	4,210,400	0	90.3%	0	0%	0	0%	454,561	9.7%	0	0%	4,664,961	9.56	5.41%
Purissima Hills WD	639,836	0	100.0%	0	0%	0	0%	0	0%	0	0%	639,836	1.31	0.74%
San Jose	1,817,070	0	83.6%	15,394	0.7%	0	0%	340,100	15.7%	0	0%	2,172,564	4.45	2.52%
Santa Clara	1,407,256	0	16.4%	4,269,622	49.6%	0	0%	1,490,135	17.3%	1,437,869	16.7%	8,604,882	17.63	9.98%
Stanford***	677,245	0	55.4%	0	0%	0	0%	0	0%	544,139	45%	1,221,384	2.50	1.42%
Sunnyvale	3,866,964	0	51.8%	54,637	0.7%	0	0%	53,557	0.7%	3,493,579	46.8%	7,468,737	15.31	8.67%
Subtotal	18,128,850	0	55.6%	4,389,761	13.5%	0	0.0%	2,864,291	8.8%	7,243,905	22.2%	32,626,806	66.86	37.85%
mgd equiv	37.15	0.00		9.00		0.00		5.87		14.85		66.86		
Alameda County														
Alameda CWD	4,738,636	0	29.5%	2,685,294	16.7%	2,538,677	15.8%	0	0%	6,124,384	38.1%	16,086,991	32.97	18.7%
Hayward	6,301,398	0	98.8%	0	0%	0	0%	76,640	1%	0	0.0%	6,378,038	13.07	7.4%
Subtotal	11,040,035	0	49.1%	2,685,294	12.0%	2,538,677	11.3%	76,640	0%	6,124,384	27.3%	22,465,029	46.04	26.06%
mgd equiv	22.62	0.00		5.50		5.20				12.55		46.04		
Total	57,535,047	0	66.8%	8,998,241	10.4%	2,827,560	3.3%	3,463,149	4.0%	13,368,288	15.5%	86,192,285	176.64	100.0%
mgd equiv	117.91	0.00		18.44		5.79		7.10		27.40		176.64		
*The total recycled water noted here is the portion that actually replaces a potable supply.														
**City of Burlingame transferred water to Millbrae while they made improvements on their water tank. This water was included in customary purchases for Millbrae.														
***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 2022-23 Annual Survey														

Table 3D: Total Monthly Water Use – FY 2022-23 (in ccf)

Member	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June	Total	mgd
San Mateo County														
Brisbane / GVMID	24,248	23,541	23,500	24,638	18,445	19,837	16,238	16,251	20,111	18,162	26,143	27,209	258,323	0.53
Burlingame	135,154	157,578	148,162	113,422	103,217	101,245	90,828	93,954	100,936	105,719	133,231	160,800	1,444,244	2.96
CWS - Bear Gulch	615,697	590,417	533,311	488,587	293,072	212,086	189,151	181,428	194,577	299,403	460,969	546,499	4,605,197	9.44
CWS - Mid Peninsula	571,300	582,340	523,706	509,494	404,470	371,479	357,496	331,292	360,643	414,275	501,595	544,740	5,472,830	11.22
CWS - South SF	261,622	259,019	266,055	244,877	203,693	192,660	197,185	185,234	241,403	216,420	246,420	253,461	2,768,049	5.67
Coastside CWD	63,712	72,616	68,258	59,434	48,433	48,660	38,968	36,267	38,512	48,552	57,215	64,367	644,994	1.32
Daly City	272,891	319,824	284,193	249,833	220,917	190,549	191,143	191,753	207,908	225,890	221,765	245,994	2,822,660	5.78
East Palo Alto	68,377	57,295	69,220	57,897	51,681	47,176	55,584	47,377	47,978	54,501	54,916	66,613	678,615	1.39
Estero MID	224,310	202,488	224,765	171,002	140,684	116,424	112,440	103,524	102,094	113,636	139,547	183,024	1,833,938	3.76
Hillsborough	135,665	160,304	113,399	82,898	50,075	35,472	30,379	32,733	34,149	68,725	114,439	142,479	1,000,717	2.05
Menlo Park	132,973	131,088	99,777	78,910	75,116	64,286	62,292	58,313	63,054	77,665	105,214	121,318	1,070,006	2.19
Mid-Peninsula WD	104,602	122,218	103,645	97,376	76,617	75,499	65,556	66,168	68,390	77,598	93,949	103,759	1,055,377	2.16
Millbrae	79,725	91,484	80,269	65,209	61,651	60,609	55,203	64,018	61,126	61,480	79,245	90,028	850,047	1.74
North Coast CWD	85,099	106,936	86,094	70,575	90,645	90,283	71,678	74,385	76,247	85,339	99,074	104,384	1,040,739	2.13
Redwood City	384,820	457,144	377,129	291,543	243,410	250,343	207,943	223,293	228,629	279,101	396,067	436,751	3,776,172	7.74
San Bruno	137,634	135,044	124,542	123,694	107,801	108,054	108,511	102,394	112,184	101,558	131,320	145,846	1,438,582	2.95
Westborough WD	32,533	28,439	32,245	31,934	40,364	21,732	21,726	27,075	25,058	21,096	28,358	29,400	339,960	0.70
Subtotal	3,330,362	3,497,775	3,158,270	2,761,322	2,230,291	2,006,393	1,872,321	1,835,458	1,982,999	2,269,120	2,889,467	3,266,672	31,100,450	63.73
% of Annual Use	11%	11%	10%	9%	7%	6%	6%	6%	6%	7%	9%	11%		
Santa Clara County														
Milpitas	415,543	419,038	405,157	348,958	293,045	278,701	266,602	249,402	297,156	279,837	344,788	377,120	3,975,347	8.15
Mountain View	428,491	425,545	410,015	332,353	262,626	240,327	216,379	221,422	252,396	277,906	371,733	439,901	3,879,095	7.95
Palo Alto	599,520	490,295	577,951	470,887	343,860	286,117	264,772	224,776	227,041	286,844	377,730	515,168	4,664,961	9.56
Purissima Hills WD	79,096	88,326	85,954	66,805	36,899	27,343	20,118	20,577	22,177	41,430	65,250	85,864	639,836	1.31
San Jose	253,958	201,853	295,281	170,132	182,648	127,651	136,514	122,764	152,285	133,025	196,723	199,730	2,172,564	4.45
Santa Clara	815,318	904,883	865,448	856,090	608,782	618,273	580,306	559,453	541,941	652,628	679,632	922,128	8,604,882	17.63
Stanford	142,224	125,411	150,438	119,461	74,193	48,513	64,366	88,447	58,129	74,251	110,357	165,594	1,221,384	2.50
Sunnyvale	724,640	822,708	766,689	681,668	541,119	483,210	462,000	444,673	478,162	558,443	716,486	788,939	7,468,737	15.31
Subtotal	3,458,790	3,478,059	3,556,932	3,046,354	2,343,172	2,110,135	2,011,057	1,931,514	2,029,287	2,304,364	2,862,700	3,494,443	32,626,806	66.86
% of Annual Use	11%	11%	11%	9%	7%	6%	6%	6%	6%	7%	9%	11%		
Alameda County														
Alameda CWD	1,666,216	1,699,935	1,582,782	1,505,356	1,189,247	1,085,575	1,068,182	970,971	1,067,673	1,176,136	1,470,910	1,604,008	16,086,991	32.97
Hayward	738,540	530,813	710,398	559,485	476,977	463,384	446,998	407,067	454,770	454,878	486,893	647,835	6,378,038	13.07
Subtotal	2,404,756	2,230,749	2,293,180	2,064,841	1,666,224	1,548,959	1,515,180	1,378,038	1,522,443	1,631,014	1,957,802	2,251,844	22,465,029	46.04
% of Annual Use	11%	10%	10%	9%	7%	7%	7%	6%	7%	7%	9%	10%		
Total	9,193,908	9,206,582	9,008,382	7,872,517	6,239,687	5,665,487	5,398,557	5,145,009	5,534,729	6,204,498	7,709,969	9,012,960	86,192,285	176.64
% of Annual Use	11%	11%	10%	9%	7%	7%	6%	6%	6%	7%	9%	10%		
Note: Totals inclusive of SF RWS In Lieu Water (if applicable).														
Source: BAWSCA FY 2022-23 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	0.80	0.84	0.86	0.87	0.89
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	30.36
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	73.94	74.50	75.57	77.33	79.63
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	10.00	13.76	13.76	13.76	13.76
Hayward	17.77	18.39	19.44	20.50	21.81
Subtotal	27.77	32.15	33.20	34.26	35.57
Total	149.53	155.59	160.26	165.01	170.49
Total w/o SJ & SC	140.54	146.59	151.27	156.02	161.50
Source: BAWSCA FY 2022-23 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	2.00	2.00	2.00	2.00	2.00
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	3.79	4.10	4.52	4.92	4.93
Santa Clara County					
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	8.40	8.60	8.60	8.60	8.60
Total	21.55	23.26	25.74	29.30	30.00
<i>Source: BAWSCA FY 2022-23 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 2022-23 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
<i>Source: BAWSCA FY 2022-23 Annual Survey</i>					

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	16.25	11.88	11.72	11.85	18.91
Total	34.23	30.19	31.62	32.50	40.44
1 Purchases from SCVWD					
2 Purchases from State Water Project and desalination					
<i>Source: BAWSCA FY 2022-23 Annual Survey</i>					

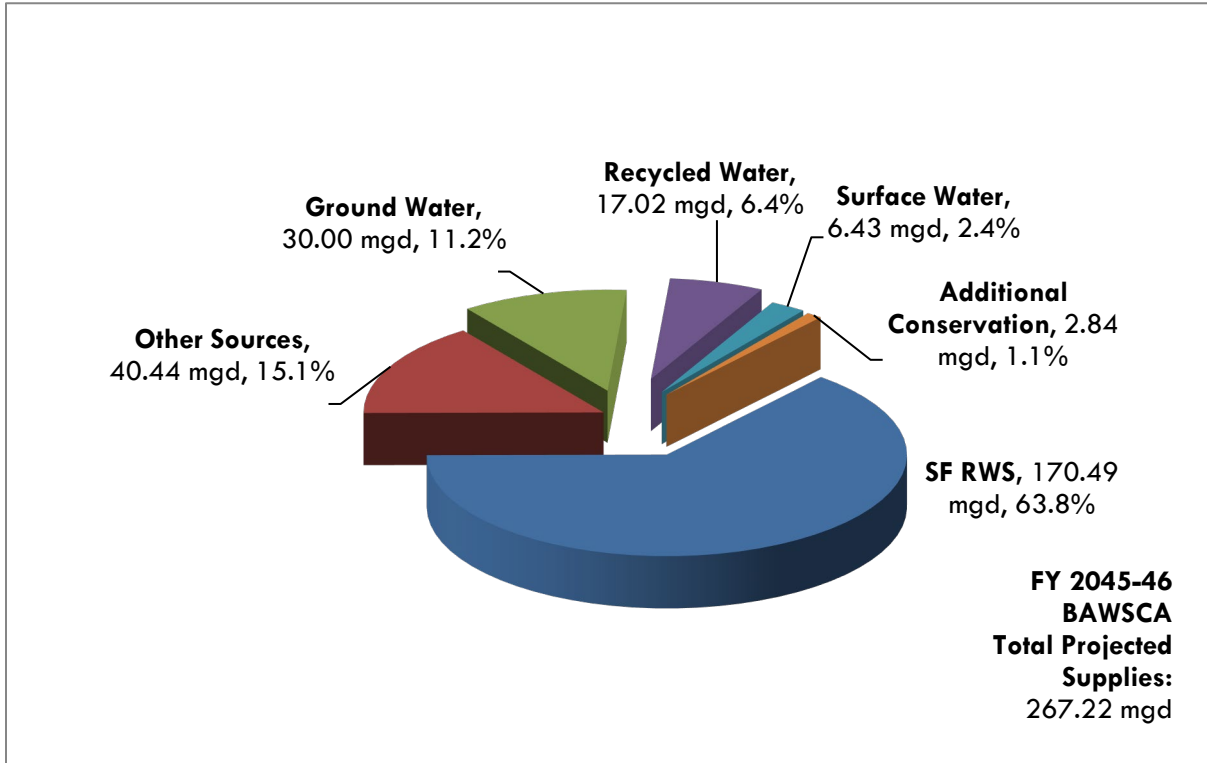
Table 3E-6: Demand Projections by Source (in mgd)

Summary

Source	FY 2025-26	FY 2030-31	FY 2035-36	FY 2040-41	FY 2045-46
SFPUC	149.53	155.59	160.26	165.01	170.49
Groundwater	21.55	23.26	25.74	29.30	30.00
Surface Water	6.47	6.47	6.47	6.44	6.43
Recycled	10.72	12.01	13.52	15.36	17.02
Other	34.23	30.19	31.62	32.50	40.44
Conservation/Active	1.01	1.88	2.32	2.69	2.84
Total	223.52	229.40	239.94	251.31	267.22

Source: BAWSCA FY 2022-23 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 2022-23

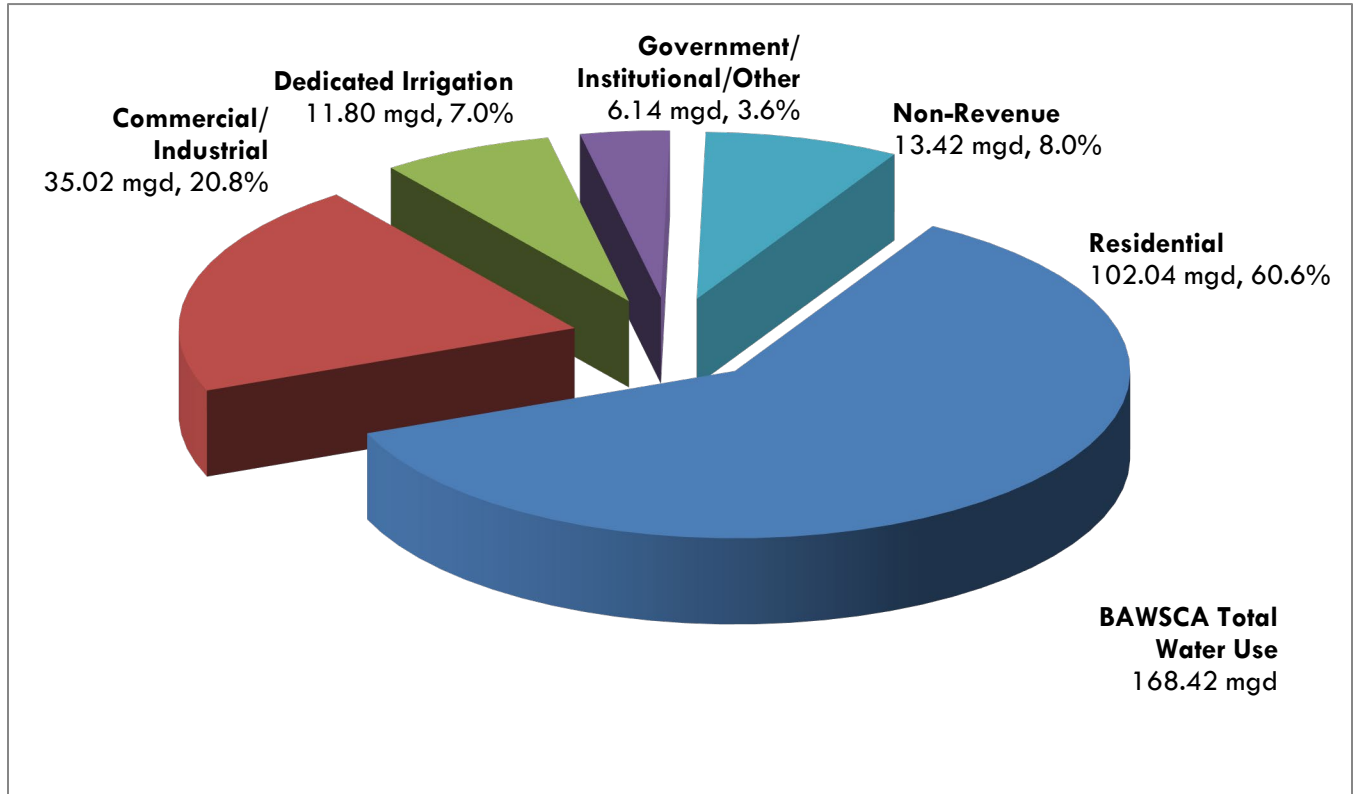


Figure 4B: Total Water Use by Customer Class – FY 2022-23

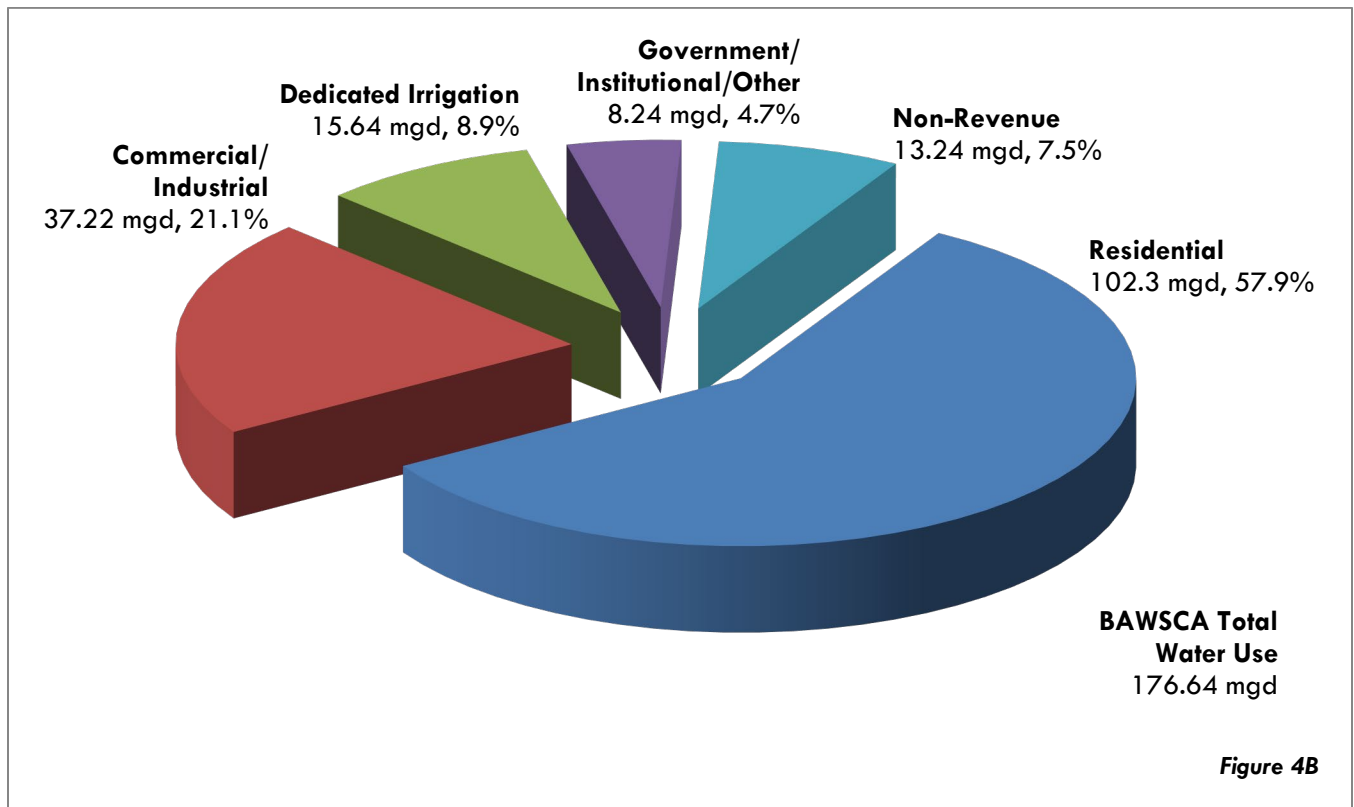


Figure 4B

Figure 4C: Potable Water Use by Sector for BAWSCA Agencies – FY 2022-23

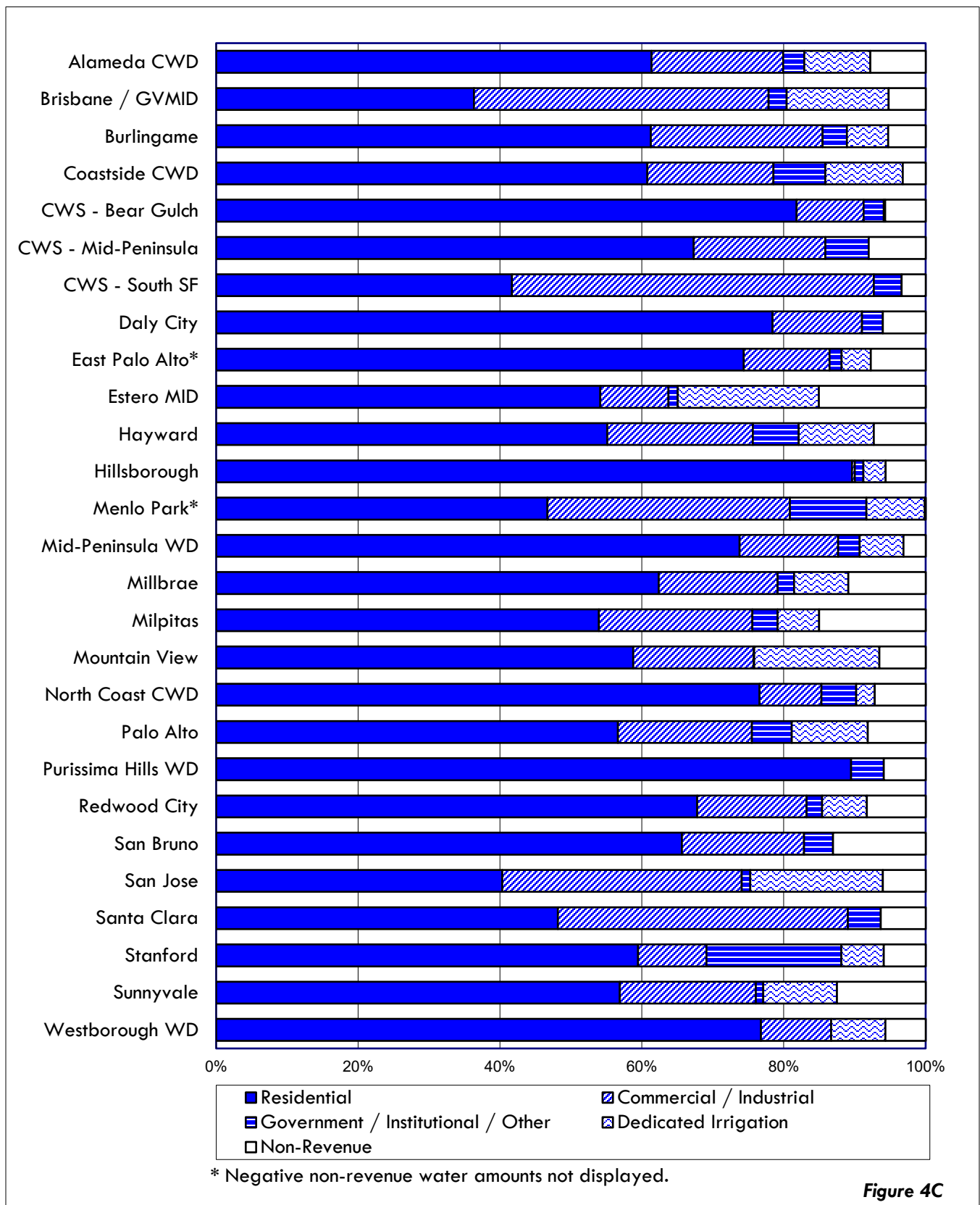


Figure 4C

Table 4A: Potable Water Use by Customer Class – FY 2022-23 (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/Insti'l/Other	Subtotal			Minus Recycled Water†	mgd
San Mateo County												
Brisbane / GVMID	77,826	16,058	93,884	107,234	0	107,234	6,599	113,833	37,145	13,461	258,323	0.53
Burlingame	572,020	312,637	884,658	349,921	0	349,921	49,217	399,138	84,272	76,177	1,444,244	2.96
CWS - Bear Gulch	3,646,834	120,435	3,767,269	434,908	669	435,577	129,827	565,404	10,482	262,042	4,605,197	9.44
CWS - Mid-Peninsula	2,840,176	844,053	3,684,229	1,001,589	13,694	1,015,283	334,645	1,349,928	0	438,673	5,472,830	11.22
CWS - South SF	978,468	175,432	1,153,900	1,195,333	216,669	1,412,002	108,126	1,520,128	0	94,021	2,768,049	5.67
Coastside CWD	353,798	38,173	391,972	114,555	0	114,555	47,234	161,789	70,519	20,714	644,994	1.32
Daly City	1,363,548	641,349	2,004,897	321,701	0	321,701	75,828	397,529	0	153,942	2,556,368	5.24
East Palo Alto*	504,563	0	504,563	79,282	2,784	82,066	11,551	93,617	28,006	52,429	678,615	1.39
Esterro MID	390,753	601,924	992,677	158,614	17,819	176,433	23,880	200,313	364,998	275,950	1,833,938	3.76
Hillsborough	896,796	0	896,796	3,949	0	3,949	12,201	16,150	31,453	56,318	1,000,717	2.05
Menlo Park	368,920	130,629	499,549	194,296	171,391	365,687	115,441	481,128	88,219	1,110	1,070,006	2.19
Mid-Peninsula WD	580,771	197,735	778,506	124,301	22,396	146,697	31,950	178,647	65,383	32,841	1,055,377	2.16
Millbrae	386,510	143,630	530,140	142,691	0	142,691	19,564	162,255	65,013	92,639	850,047	1.74
North Coast CWD	641,111	143,472	784,583	89,498	0	89,498	50,309	139,807	26,790	73,408	1,024,588	2.10
Redwood City	1,611,743	785,815	2,397,558	513,208	32,341	545,549	77,754	623,303	223,060	292,476	3,536,397	7.25
San Bruno*	944,436	0	944,436	247,539	0	247,539	58,940	306,479	0	187,667	1,438,582	2.95
Westborough	225,626	35,436	261,062	33,612	0	33,612	0	33,612	26,047	19,239	339,960	0.70
Subtotal	16,383,900	4,186,779	20,570,678	5,112,231	477,763	5,589,994	1,153,066	6,743,060	1,121,387	2,143,107	30,578,232	62.66
mgd equiv	33.58	8.58	42.16	10.48	0.98	11.46	2.36	13.82	2.30	4.39	62.66	
Santa Clara County												
Milpitas	1,075,654	884,590	1,960,244	431,121	354,519	785,640	128,725	914,365	212,530	545,757	3,632,896	7.44
Mountain View	943,953	1,228,920	2,172,873	516,261	110,353	626,614	2,815	629,429	652,566	240,740	3,695,608	7.57
Palo Alto	1,776,049	608,402	2,384,451	693,002	101,927	794,929	237,028	1,031,957	450,160	343,832	4,210,400	8.63
Purissima Hills WD	572,579	0	572,579	0	0	0	29,477	29,477	0	37,780	639,836	1.31
San Jose	80,893	657,805	738,698	132,798	485,932	618,730	21,926	640,656	342,662	110,448	1,832,464	3.76
Santa Clara	1,701,486	1,726,217	3,427,703	2,271,901	635,384	2,907,285	330,592	3,237,877	0	449,168	7,114,747	14.58
Stanford	130,683	272,040	402,723	887	64,423	65,310	128,710	194,020	40,615	39,887	677,245	1.39
Sunnyvale	2,115,167	2,103,227	4,218,393	1,420,780	0	1,420,780	79,468	1,500,248	769,855	926,684	7,415,180	15.20
Subtotal	8,396,464	7,481,201	15,877,664	5,466,749	1,752,538	7,219,287	958,741	8,178,028	2,468,388	2,694,296	29,218,376	59.88
mgd equiv	17.21	15.33	32.54	11.20	3.59	14.79	1.96	16.76	5.06	5.52	59.88	
Alameda County												
Alameda CWD	6,751,097	3,121,032	9,872,128	1,908,542	1,077,387	2,985,929	476,954	3,462,883	1,499,927	1,252,052	16,086,991	32.97
Hayward	2,295,452	1,177,146	3,472,598	475,574	817,731	1,293,305	409,088	1,702,393	666,106	460,301	6,301,398	12.91
Subtotal	9,046,549	4,298,178	13,344,726	2,384,116	1,895,118	4,279,234	886,042	5,165,276	2,166,033	1,712,354	22,388,389	45.88
mgd equiv	18.54	8.81	27.35	4.89	3.88	8.77	1.82	10.59	4.44	3.51	45.88	
Total	33,826,912	15,966,157	49,793,069	12,963,096	4,125,419	17,088,515	2,997,850	20,086,365	5,755,807	6,549,756	82,184,997	168.42
mgd equiv	69.32	32.72	102.04	26.57	8.45	35.02	6.14	41.16	11.80	13.42	168.42	
*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)								
Source: BAWSCA FY 2022-23 Annual Survey				‡ Non-Revenue water calculated as difference between total production and total consumption.								
				‡ Total Potable Consumption minus recycled water.								

Table 4B: Total Water Use by Customer Class – FY 2022-23 (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	77,826	16,058	93,884	107,234	0	107,234	6,599	113,833	37,145	13,461	258,323	0.53
Burlingame	572,020	312,637	884,658	349,921	0	349,921	49,217	399,138	84,272	76,177	1,444,244	2.96
CWS - Bear Gulch	3,646,834	120,435	3,767,269	434,908	669	435,577	129,827	565,404	10,482	262,042	4,605,197	9.44
CWS - Mid-Peninsula	2,840,176	844,053	3,684,229	1,001,589	13,694	1,015,283	334,645	1,349,928	0	438,673	5,472,830	11.22
CWS - South SF	978,468	175,432	1,153,900	1,195,333	216,669	1,412,002	108,126	1,520,128	0	94,021	2,768,049	5.67
Coastside CWD	353,798	38,173	391,972	114,555	0	114,555	47,234	161,789	70,519	20,714	644,994	1.32
Daly City	1,363,548	641,349	2,004,897	321,701	0	321,701	75,828	397,529	0	420,234	2,822,660	5.78
East Palo Alto*	504,563	0	504,563	79,282	2,784	82,066	11,551	93,617	28,006	52,429	678,615	1.39
Estero MID	390,753	601,924	992,677	158,614	17,819	176,433	23,880	200,313	364,998	275,950	1,833,938	3.76
Hillsborough	896,796	0	896,796	3,949	0	3,949	12,201	16,150	31,453	56,318	1,000,717	2.05
Menlo Park	368,920	130,629	499,549	194,296	171,391	365,687	115,441	481,128	88,219	1,110	1,070,006	2.19
Mid-Peninsula WD	580,771	197,735	778,506	124,301	22,396	146,697	31,950	178,647	65,383	32,841	1,055,377	2.16
Millbrae	386,510	143,630	530,140	142,691	0	142,691	19,564	162,255	65,013	92,639	850,047	1.74
North Coast CWD	641,111	143,472	784,583	89,498	0	89,498	65,419	154,917	41,900	59,339	1,040,739	2.13
Redwood City	1,611,743	785,815	2,397,558	516,809	38,362	555,171	77,826	632,997	451,770	293,847	3,776,172	7.74
San Bruno*	944,436	0	944,436	247,539	0	247,539	58,940	306,479	0	187,667	1,438,582	2.95
Westborough	225,626	35,436	261,062	33,612	0	33,612	0	33,612	26,047	19,239	339,960	0.70
Subtotal	16,383,900	4,186,779	20,570,678	5,115,832	483,784	5,599,616	1,168,248	6,767,864	1,365,207	2,396,701	31,100,450	63.73
mgd equiv	33.58	8.58	42.16	10.48	0.99	11.48	2.39	13.87	2.80	4.91	63.73	
Santa Clara County												
Milpitas	1,075,654	884,590	1,960,244	431,121	354,519	785,640	135,753	921,393	547,953	545,757	3,975,347	8.15
Mountain View	943,953	1,228,920	2,172,873	522,306	110,353	632,659	2,942	635,601	806,800	263,821	3,879,095	7.95
Palo Alto	1,776,049	608,402	2,384,451	693,002	101,927	794,929	592,658	1,387,587	549,094	343,829	4,664,961	9.56
Purissima Hills WD	572,579	0	572,579	0	0	0	29,477	29,477	0	37,780	639,836	1.31
San Jose	80,893	657,805	738,698	132,798	613,856	746,654	22,620	769,274	554,144	110,448	2,172,564	4.45
Santa Clara	1,701,486	1,851,209	3,552,695	2,803,014	1,034,419	3,837,433	821,334	4,658,767	0	393,421	8,604,882	17.63
Stanford	130,683	272,040	402,723	887	64,423	65,310	283,297	348,607	425,485	44,569	1,221,384	2.50
Sunnyvale	2,115,167	2,103,227	4,218,393	1,420,780	0	1,420,780	79,468	1,500,248	1,139,508	610,588	7,468,737	15.31
Subtotal	8,396,464	7,606,193	16,002,656	6,003,907	2,279,497	8,283,404	1,967,549	10,250,953	4,022,984	2,350,213	32,626,806	66.86
mgd equiv	17.21	15.59	32.79	12.30	4.67	16.98	4.03	21.01	8.24	4.82	66.86	
Alameda County												
Alameda CWD	6,751,097	3,121,032	9,872,128	1,908,542	1,077,387	2,985,929	476,954	3,462,883	1,499,927	1,252,052	16,086,991	32.97
Hayward	2,295,452	1,177,146	3,472,598	475,574	817,731	1,293,305	409,088	1,702,393	742,732	460,316	6,378,038	13.07
Subtotal	9,046,549	4,298,178	13,344,726	2,384,116	1,895,118	4,279,234	886,042	5,165,276	2,242,658	1,712,368	22,465,029	46.04
mgd equiv	18.54	8.81	27.35	4.89	3.88	8.77	1.82	10.59	4.60	3.51	46.04	
Total	33,826,912	16,091,149	49,918,061	13,503,855	4,658,399	18,162,254	4,021,840	22,184,094	7,630,849	6,459,281	86,192,285	176.64
mgd equiv	69.32	32.98	102.30	27.67	9.55	37.22	8.24	45.46	15.64	13.24	176.64	
* 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 2022-23 Annual Survey												

Table 4C: Number of Customer Accounts – FY 2022-23

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	1,551	120	1,671	295	0	295	10	305	93	2,069
Burlingame	6,961	1,195	8,156	832	0	832	189	1,021	146	9,323
CWS - Bear Gulch	16,972	188	17,160	1,253	1	1,254	166	1,420	8	18,588
CWS - Mid-Peninsula	31,349	761	32,110	3,347	85	3,432	355	3,787	0	35,897
CWS - SSF	14,050	188	14,238	1,943	49	1,992	232	2,224	0	16,462
Coastside CWD	5,800	113	5,913	393	0	393	1,306	1,699	82	7,694
Daly City	20,419	1,835	22,254	786	0	786	506	1,292	0	23,546
East Palo Alto	3,668	0	3,668	145	28	173	145	318	53	4,039
Estero MID	4,542	2,712	7,254	188	54	242	266	508	506	8,268
Hillsborough	4,191	0	4,191	10	0	10	17	27	84	4,302
Menlo Park	3,390	206	3,596	185	219	404	222	626	144	4,366
Mid-Peninsula WD	7,298	205	7,503	410	47	457	84	541	84	8,128
Millbrae	5,810	299	6,109	300	0	300	154	454	112	6,675
North Coast CWD	11,135	300	11,435	346	0	346	1,296	1,642	93	13,170
Redwood City	19,372	1,701	21,073	1,722	53	1,775	948	2,723	453	24,249
San Bruno	10,500	0	10,500	568	0	568	138	706	0	11,206
Westborough WD	3,755	14	3,769	39	0	39	57	96	92	3,957
Subtotal	170,763	9,837	180,600	12,762	536	13,298	6,091	19,389	1,950	201,939
Santa Clara County										
Milpitas	12,424	1,914	14,338	612	299	911	773	1,684	668	16,690
Mountain View	13,107	2,291	15,398	1,151	316	1,467	54	1,521	1,069	17,988
Palo Alto	15,232	1,982	17,214	1,539	56	1,595	930	2,525	446	20,185
Purissima Hills WD	2,094	0	2,094	0	0	0	38	38	0	2,132
San Jose	1,170	281	1,451	176	289	465	102	567	387	2,405
Santa Clara	17,310	5,039	22,349	2,678	336	3,014	844	3,858	0	26,207
Stanford				Not Applicable						
Sunnyvale	23,600	1,775	25,375	1,917	0	1,917	1,184	3,101	947	29,423
Subtotal	84,937	13,282	98,219	8,073	1,296	9,369	3,925	13,294	3,517	115,030
Alameda County										
Alameda CWD	74,052	4,755	78,807	3,442	1,076	4,518	769	5,287	2,240	86,334
Hayward	30,129	1,179	31,308	1,388	1,154	2,542	1,544	4,086	1,250	36,644
Subtotal	104,181	5,934	110,115	4,830	2,230	7,060	2,313	9,373	3,490	122,978
Total	359,881	29,053	388,934	25,665	4,062	29,727	12,329	42,056	8,957	439,947
*Individually metered homes, townhouses, and condos				† Dedicated Irrigation refers to separately metered irrigation usage						
Source: BAWSCA FY 2022-23 Annual Survey										

Table 4D: Non-Potable Water Use by Customer Class – FY 2022-23

Member	Residential			Non-Residential					Dedicated Irrigation†	Unaccounted	Total Non-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	0	0	0	0	0	0	0	0	0	0	0	0.00
Burlingame	0	0	0	0	0	0	0	0	0	0	0	0.00
CWS - Bear Gulch	0	0	0	0	0	0	0	0	0	0	0	0.00
CWS - Mid-Peninsula	0	0	0	0	0	0	0	0	0	0	0	0.00
CWS - South SF	0	0	0	0	0	0	0	0	0	0	0	0.00
Coastside CWD	0	0	0	0	0	0	0	0	0	0	0	0.00
Daly City	0	0	0	0	0	0	0	0	0	266,292	266,292	0.55
East Palo Alto*	0	0	0	0	0	0	0	0	0	0	0	0.00
Esteros MID	0	0	0	0	0	0	0	0	0	0	0	0.00
Hillsborough	0	0	0	0	0	0	0	0	0	0	0	0.00
Menlo Park	0	0	0	0	0	0	0	0	0	0	0	0.00
Mid-Peninsula WD	0	0	0	0	0	0	0	0	0	0	0	0.00
Millbrae	0	0	0	0	0	0	0	0	0	0	0	0.00
North Coast CWD	0	0	0	0	0	0	0	0	15,110	1,041	16,151	0.03
Redwood City	0	0	0	3,601	6,021	9,622	72	9,694	228,710	1,371	239,775	0.49
San Bruno*	0	0	0	0	0	0	0	0	0	0	0	0.00
Westborough	0	0	0	0	0	0	0	0	0	0	0	0.00
Subtotal	0	0	0	3,601	6,021	9,622	72	9,694	243,820	268,704	522,218	1.07
mgd equiv	0.00	0.00	0.00	0.01	0.01	0.02	0.00	0.02	0.50	0.55	1.07	
Santa Clara County												
Milpitas	0	0	0	0	0	0	7,028	7,028	335,423	0	342,451	0.70
Mountain View	0	0	0	6,045	0	6,045	127	6,172	154,234	23,081	183,487	0.38
Palo Alto	0	0	0	0	0	0	355,630	355,630	98,934	-3	454,561	0.93
Purissima Hills WD	0	0	0	0	0	0	0	0	0	0	0	0.00
San Jose**	0	0	0	0	127,924	127,924	694	128,618	211,482	0	340,100	0.70
Santa Clara	0	124,992	124,992	531,113	399,035	930,148	490,742	1,420,890	0	-55,747	1,490,135	3.05
Stanford	0	0	0	0	0	0	154,587	154,587	384,870	4,682	544,139	1.12
Sunnyvale	0	0	0	0	0	0	0	0	369,653	-316,096	53,557	0.11
Subtotal	0	124,992	124,992	537,158	526,959	1,064,117	1,008,808	2,072,925	1,554,596	-344,083	3,408,430	6.98
mgd equiv	0.00	0.26	0.26	1.10	1.08	2.18	2.07	4.25	3.19	-0.71	6.98	
Alameda County												
Alameda CWD	0	0	0	0	0	0	0	0	0	0	0	0.00
Hayward	0	0	0	0	0	0	0	0	76,626	14	76,640	0.16
Subtotal	0	0	0	0	0	0	0	0	76,626	14	76,640	0.16
mgd equiv	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.16	
Total	0	124,992	124,992	540,759	532,980	1,073,739	1,008,880	2,082,619	1,875,042	-75,365	4,007,288	8.21
mgd equiv	0.00	0.26	0.26	1.11	1.09	2.20	2.07	4.27	3.84	-0.15	8.21	
* Single family amount includes multi-family				† Dedicated Irrigation refers to separately metered irrigation usage and includes agriculture								

Source: BAWSCA FY 2022-23 Annual Survey

5. Climatological Data

Table 5A: Climatological Data

Rainfall					
Precipitation (Inches)					
	Redwood City*	San Jose	Newark	SF Airport	
Historical Avg (1906-2023)					
	18.8	12.7	14.3	19.5	
Recent Past					
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 2022-23	34.7	15.9	13.5	31.7	
FY 2022-23 Deviation from Historical Avg					
	15.9	3.3	-0.8	12.2	
Temperature					
Average Maximum Temperature (Degrees F)					
	Redwood City*	San Jose	Newark	SF Airport	
Historical Avg (1948-2023)					
Annual	71.1	70.4	69.3	65.5	
Summer**	81.5	80.2	77.1	72.4	
Recent Past					
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	
2022-23 Annual	69.3	69.9	69.2	65.4	
Summer**	81.6	82.7	81.9	74.1	
FY 2021-23 Deviation From Historical Avg					
Annual	-1.8	-0.5	-0.1	-0.2	
Summer**	0.1	2.5	4.8	1.7	
*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

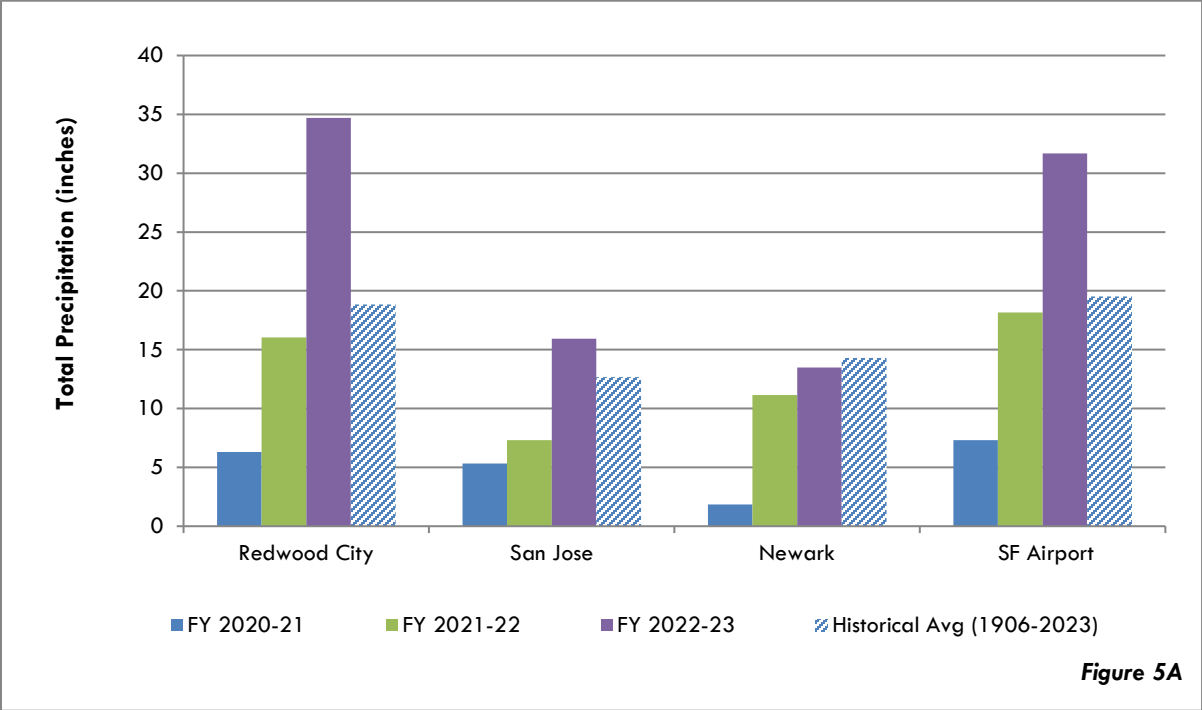
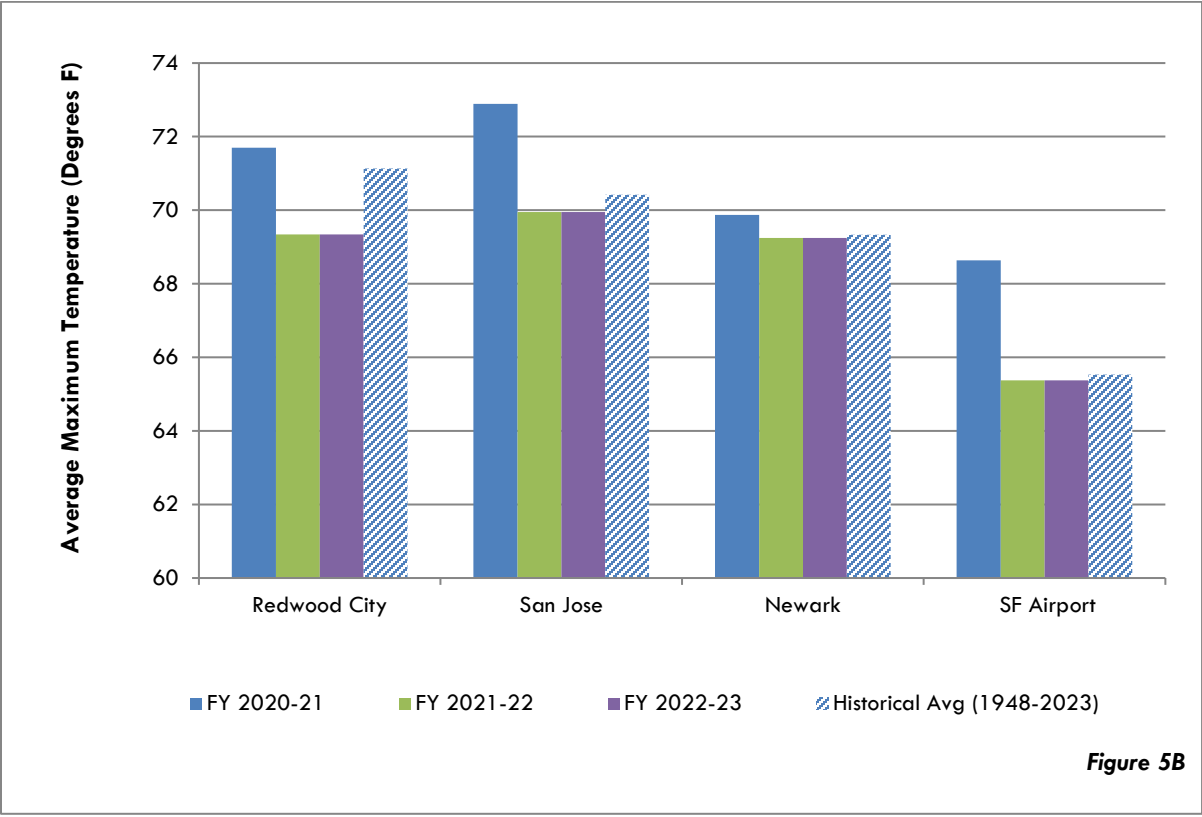


Figure 5B: Average Maximum Daily Temperature



6. Service Area Populations

Table 6: BAWSCA Service Area Populations

												Projections				
	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 2022-23	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	4,562	4,156	4,573	4,587	4,657	4,598	4,851	4,851	5,134	5,417	5,702	5,987	6,272
Burlingame	30,282	30,282	32,993	31,109	31,109	31,109	31,109	31,109	32,407	32,407	31,080	34,592	36,024	37,457	38,889	40,322
CWS - Bear Gulch	58,098	58,352	59,883	59,883	60,513	60,719	60,827	60,827	60,814	60,903	60,982	60,907	61,255	61,778	62,302	62,835
CWS - Mid-Peninsula	128,037	129,037	133,679	133,679	135,455	135,943	138,419	137,217	137,487	137,490	137,660	139,142	142,138	144,913	147,802	150,974
CWS - South SF	59,567	60,172	61,223	61,223	61,769	62,039	62,894	62,894	63,319	63,702	64,062	65,539	66,028	66,759	69,100	71,550
Coastside CWD	16,900	16,652	16,668	16,704	16,704	16,776	16,811	18,738	18,789	18,839	18,890	18,991	19,238	19,371	19,472	19,573
Daly City	102,820	104,462	108,510	109,139	109,139	109,139	109,139	106,638	106,638	107,197	107,000	107,000	107,000	107,000	107,000	107,000
East Palo Alto	25,927	25,927	29,143	24,424	26,181	26,181	26,181	26,181	25,935	25,935	29,519	30,000	30,000	30,000	30,000	30,000
Estero MID	36,567	37,000	37,088	37,165	37,518	37,687	37,687	37,687	37,687	33,056	37,443	37,443	38,379	39,338	40,322	41,330
Guadalupe Valley	Included with Brisbane															
Hillsborough	10,850	10,860	10,869	10,869	10,869	10,869	10,869	10,869	11,397	11,397	11,592	12,114	12,783	12,783	12,783	12,783
Menlo Park	14,198	16,066	15,342	16,066	16,066	17,071	17,648	18,224	19,297	21,340	20,319	23,383	25,166	27,675	30,184	32,693
Mid-Peninsula WD	26,270	26,270	26,730	26,730	26,924	26,924	26,924	26,924	27,560	29,260	30,159	31,059	31,369	32,416	33,499	34,496
Millbrae	21,532	21,532	21,532	22,848	22,848	22,848	23,168	22,832	22,848	22,277	21,579	22,846	26,774	26,657	27,081	27,505
North Coast CWD	39,000	39,000	40,000	40,000	40,000	40,000	40,000	38,546	38,331	37,533	37,082	39,084	39,654	40,032	40,414	40,800
Redwood City	86,647	86,427	87,059	87,023	87,023	87,023	87,023	90,518	89,037	89,037	90,928	93,765	97,128	100,614	104,247	107,947
San Bruno	41,114	43,798	43,798	44,409	44,409	44,409	44,409	44,409	44,409	44,409	43,910	45,865	46,472	47,080	51,922	56,764
Skyline	Included with CWS - Bear Gulch															
Westborough WD	13,259	13,259	13,260	14,050	14,050	12,703	12,703	12,703	13,466	13,486	13,486	14,265	14,470	14,990	15,195	15,400
Subtotal	715,350	723,378	742,060	739,883	744,733	746,013	750,398	750,973	754,019	753,119	760,542	781,129	799,295	814,565	836,199	858,244
Santa Clara County																
Milpitas	67,894	69,783	70,800	75,521	77,528	78,106	74,865	77,961	77,961	80,839	81,067	90,400	98,100	106,000	113,200	120,400
Mountain View	73,656	75,280	76,413	75,430	77,801	79,027	79,492	79,772	82,814	81,764	81,501	91,810	98,080	104,350	110,630	116,900
Palo Alto	66,368	66,642	66,152	68,020	66,930	67,320	67,709	67,082	66,573	67,973	68,624	72,297	75,445	78,593	81,741	84,889
Purissima Hills WD	6,127	6,142	6,140	6,150	6,150	6,150	6,150	6,150	6,822	6,150	6,245	6,833	6,898	7,025	7,112	7,202
San Jose**	15,178	15,286	15,948	9,059	13,733	16,084	16,032	35,468	37,991	40,514	43,036	50,000	62,000	87,000	103,000	106,000
Santa Clara	119,311	118,459	120,973	120,973	123,752	129,604	129,604	129,604	130,746	130,746	132,476	137,215	142,425	151,715	159,500	167,285
Stanford*	29,401	29,635	30,486	30,943	31,558	32,218	32,578	32,075	13,629	32,235	33,827	34,234	36,374	38,642	40,717	42,857
Sunnyvale	145,973	147,055	148,028	148,372	149,831	153,389	155,567	156,503	153,827	156,503	156,317	156,020	161,100	201,169	220,169	238,910
Subtotal	523,908	528,282	534,940	534,468	547,283	561,898	561,997	584,615	570,363	596,724	603,093	638,809	680,422	774,494	836,069	884,443
Alameda County																
Alameda CWD	336,000	340,000	344,000	348,000	350,538	356,000	356,160	356,823	358,246	344,855	344,000	346,000	355,000	363,000	371,000	382,000
Hayward	148,756	151,037	152,889	158,985	158,985	160,500	160,500	160,500	160,311	160,591	162,954	181,700	202,600	225,800	251,800	280,700
Subtotal	484,756	491,037	496,889	506,985	509,523	516,500	516,660	517,323	518,557	505,446	506,954	527,700	557,600	588,800	622,800	662,700
Total	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	1,870,589	1,947,638	2,037,317	2,177,859	2,295,068	2,405,387
*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 2022-23 (in gpcd)

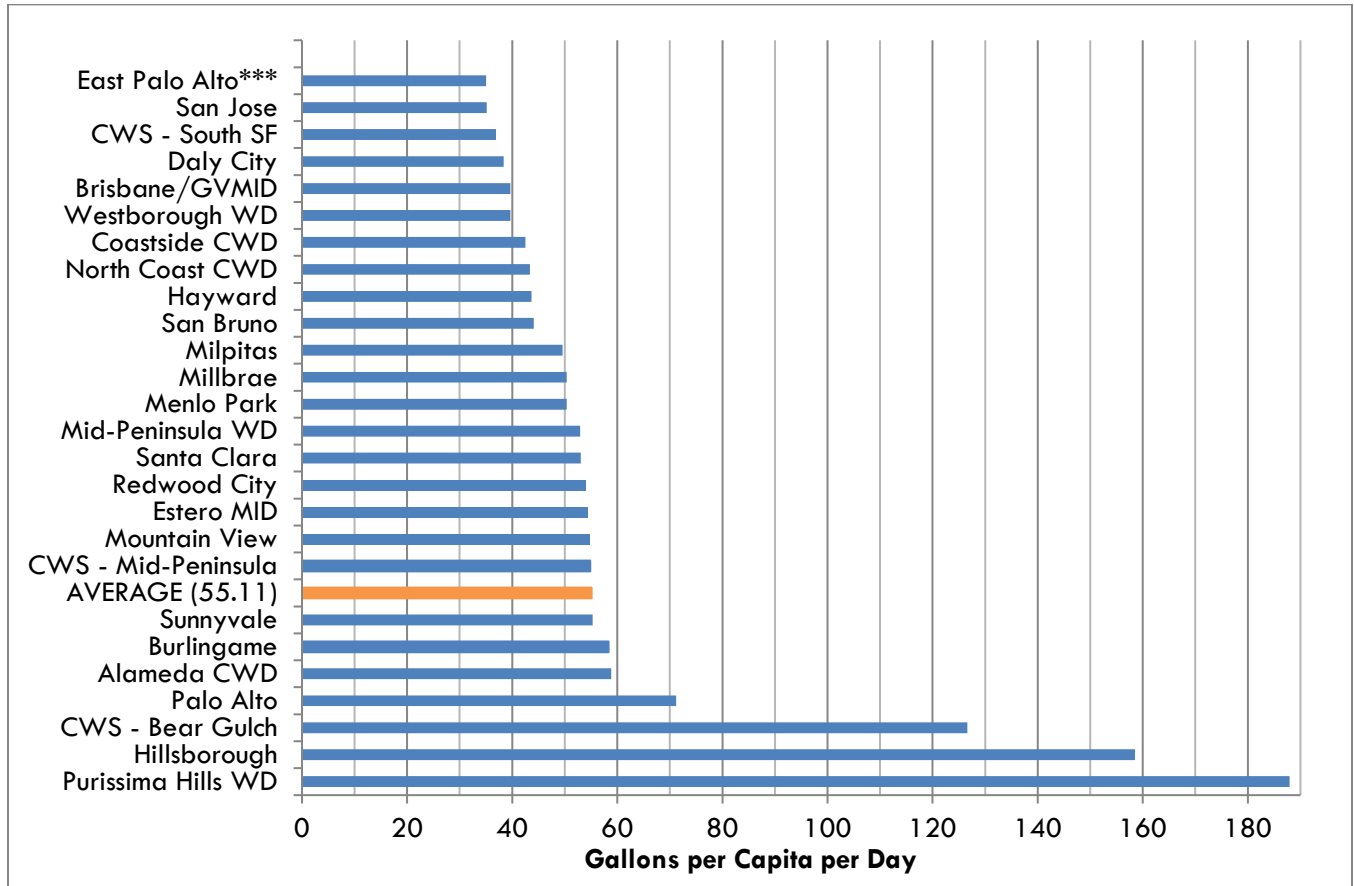


Figure 7A-2: Residential Per Capita Consumption (in gpcd) Distributed by Percentage of Population- FY 2022-23

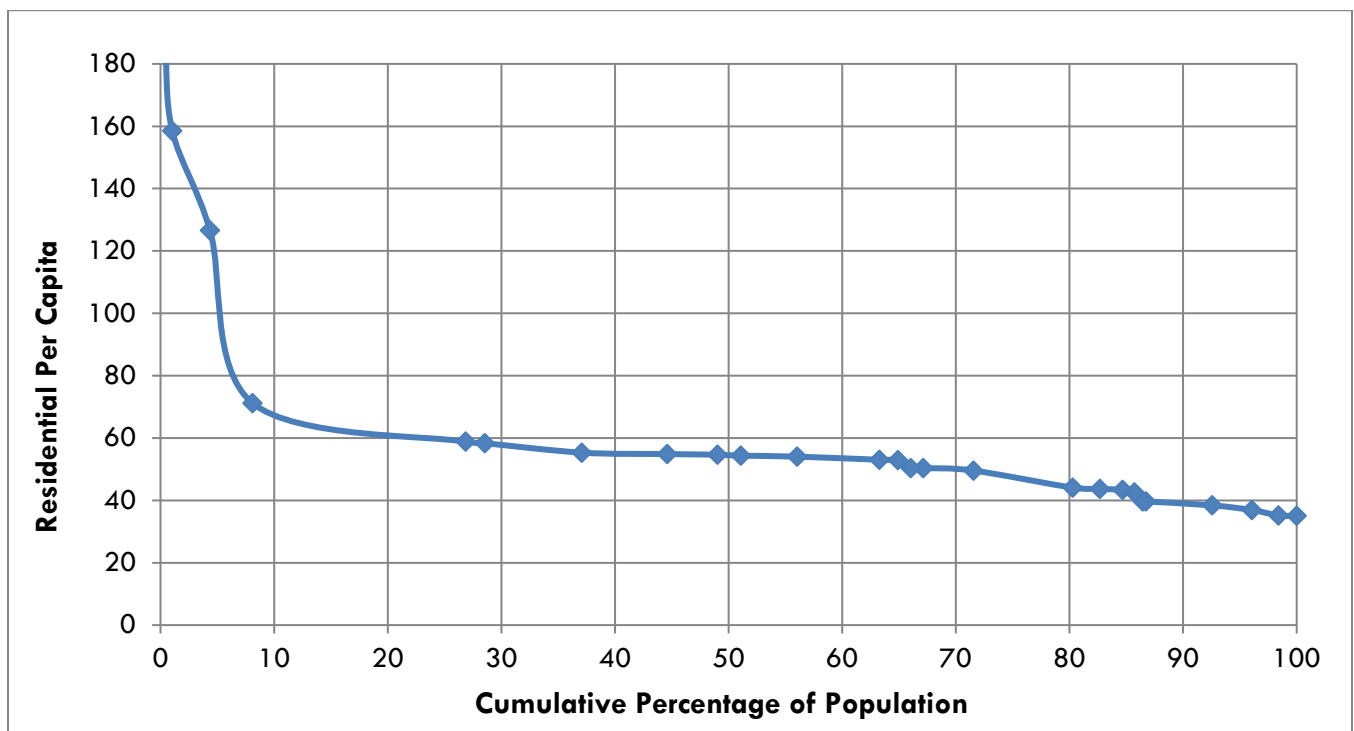


Figure 7B: Gross Per Capita Consumption(in gpcd) – FY 2022-23

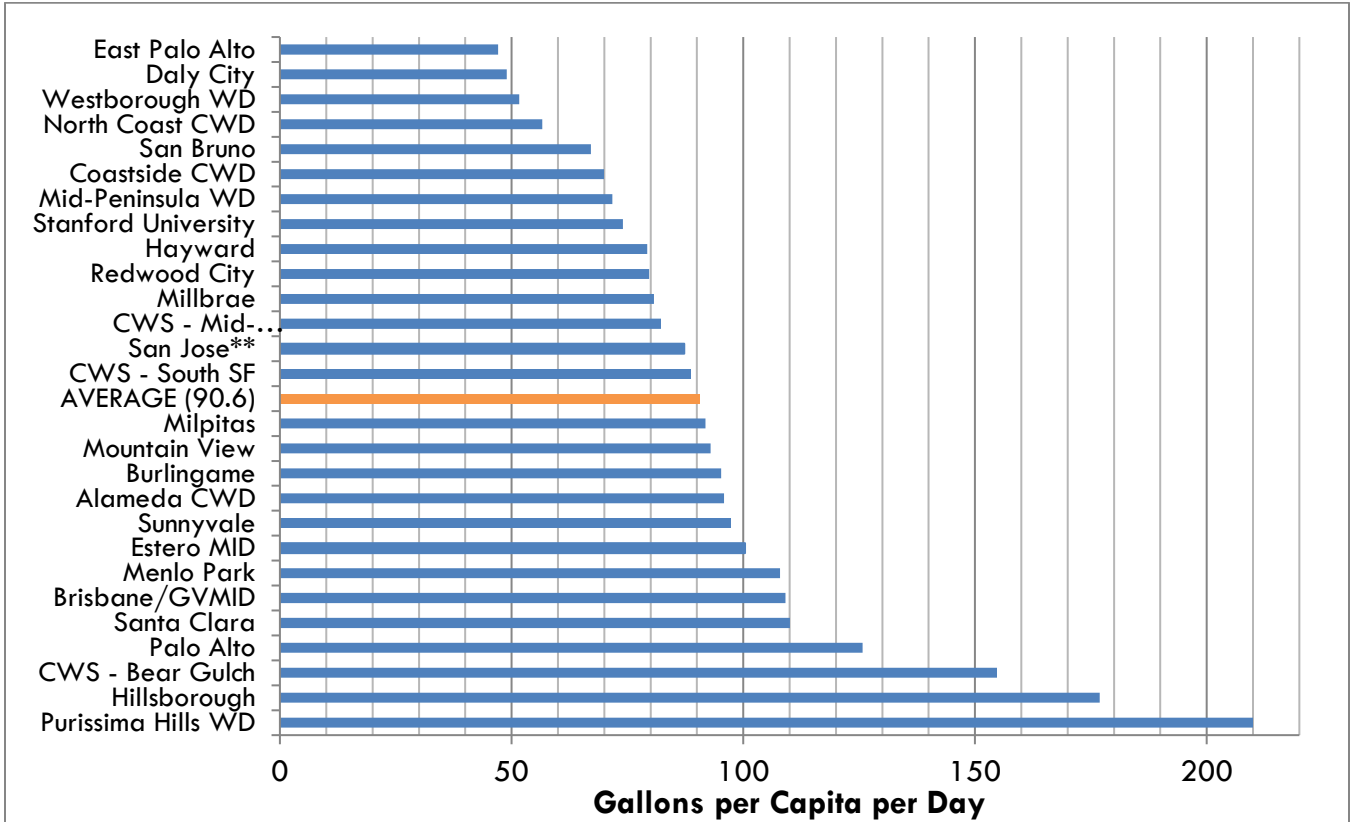


Figure 7C: Historical BAWSCA/BAWUA Per Capita Consumption (in gpcd) - 1975-96 to Present

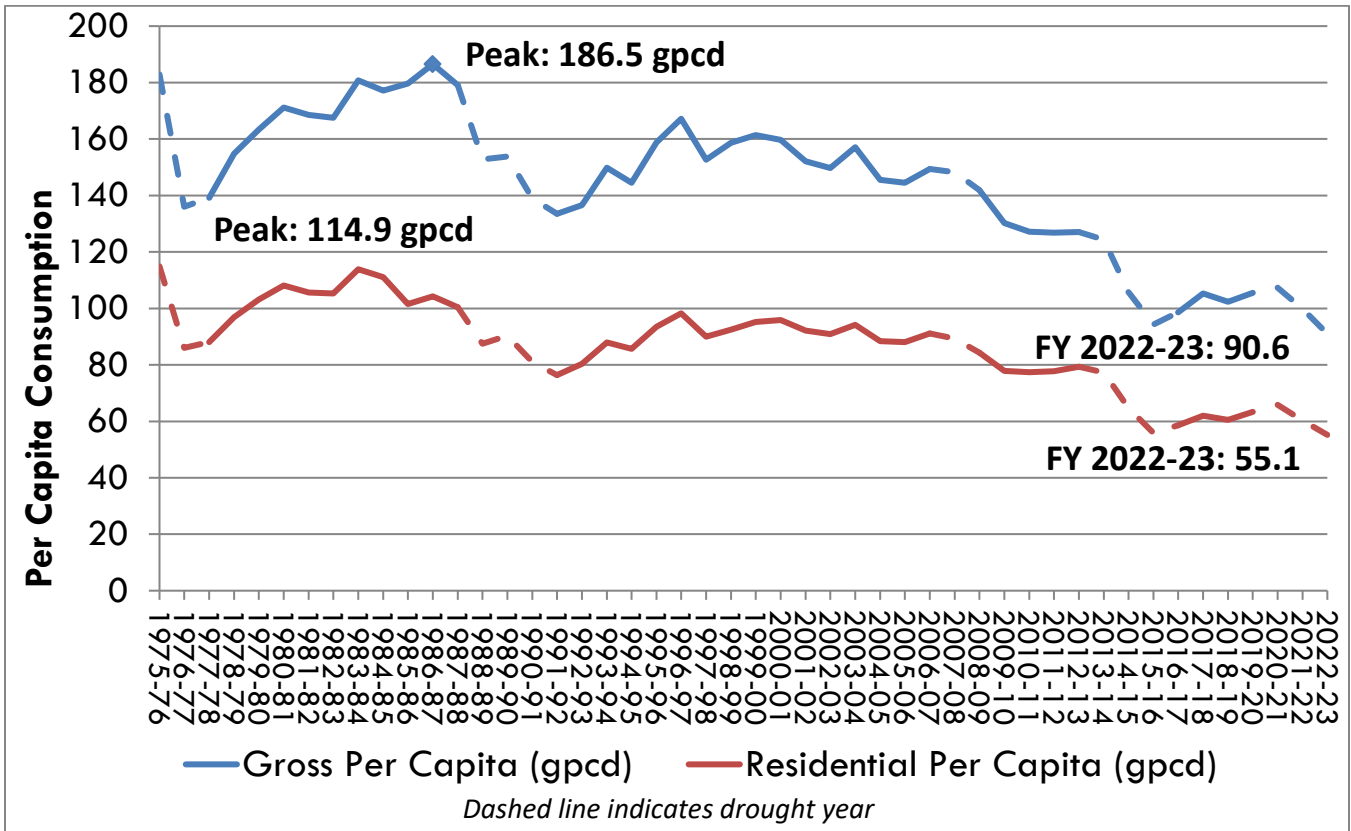


Table 7A: Residential Per Capita Consumption and Single-Family Average Monthly Use Among BAWSCA Members - FY 2022-23

			*Residential	**Single-Family
	Service	Residential	Per Capita	Average
	Area	Consumption*	Consumption	Monthly Use
Member	Population	(ccf)	(gpcd)	(ccf)
East Palo Alto***	29,519	504,563	35	11.5
San Jose	43,036	738,698	35	5.8
CWS - South SF	64,062	1,153,900	37	5.8
Daly City	107,000	2,004,897	38	5.6
Brisbane/GVMID	4,851	93,884	40	4.2
Westborough WD	13,486	261,062	40	5.0
Coastside CWD	18,890	391,972	43	5.1
North Coast CWD	37,082	784,583	43	4.8
Hayward	162,954	3,472,598	44	6.3
San Bruno	43,910	944,436	44	7.5
Milpitas	81,067	1,960,244	50	7.2
Millbrae	21,579	530,140	50	5.5
Menlo Park	20,319	499,549	50	9.1
Mid-Peninsula WD	30,159	778,506	53	6.6
Santa Clara	132,476	3,427,703	53	8.2
Redwood City	90,928	2,397,558	54	6.9
Estero MID	37,443	992,677	54	7.2
Mountain View	81,501	2,172,873	55	6.0
CWS - Mid-Peninsula	137,660	3,684,229	55	7.5
Sunnyvale	156,317	4,218,393	55	7.5
Burlingame	31,080	884,658	58	6.8
Alameda CWD	344,000	9,872,128	59	7.6
Palo Alto	68,624	2,384,451	71	9.7
CWS - Bear Gulch	60,982	3,767,269	127	17.9
Hillsborough	11,592	896,796	159	17.8
Purissima Hills WD	6,245	572,579	188	22.8
Agency Totals	1,836,762	49,390,346		
Average Residential Per Capita Consumption			55.11	
Average Single Family Monthly Use				8.3
*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 2022-23 Annual Survey				

Table 7B: Gross Per Capita Consumption Among BAWSCA Members - FY 2022-23

			Gross
	Service	*Total	Per Capita
	Area	Consumption	Consumption
Member	Population	(ccf)	(gpcpd)
East Palo Alto	29,519	678,615	47.1
Daly City	107,000	2,556,368	49.0
Westborough WD	13,486	339,960	51.7
North Coast CWD	37,082	1,024,588	56.6
San Bruno	43,910	1,438,582	67.1
Coastside CWD	18,890	644,994	70.0
Mid-Peninsula WD	30,159	1,055,377	71.7
Stanford University	33,827	1,221,384	74.0
Hayward	162,954	6,301,398	79.2
Redwood City	90,928	3,536,397	79.7
Millbrae	21,579	850,047	80.7
CWS - Mid-Peninsula	137,660	5,472,830	81.5
San Jose**	43,036	1,832,464	87.3
CWS - South SF	64,062	2,768,049	88.5
Milpitas	81,067	3,632,896	91.8
Mountain View	81,501	3,695,608	92.9
Burlingame	31,080	1,444,244	95.2
Alameda CWD	344,000	16,086,991	95.8
Sunnyvale	156,317	7,415,180	97.2
Estero MID	37,443	1,833,938	100.4
Menlo Park	20,319	1,070,006	107.9
Brisbane/GVMID	4,851	258,323	109.1
Santa Clara	132,476	7,114,747	110.1
Palo Alto	68,624	4,210,400	125.7
CWS - Bear Gulch	60,982	4,605,197	154.8
Hillsborough	11,592	1,000,717	176.9
Purissima Hills WD	6,245	639,836	210.0
Totals	1,870,589	82,729,136	
		Average gpcpd	90.6
		Median of Agencies	88.5
*Exclusive of recycled water; inclusive of unaccounted for water.			
**Service area predominantly commercial/industrial.			
Source: BAWSCA FY 2022-23 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
2022-23	1,870,589	169.5	90.6	55.1

*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 2022-23

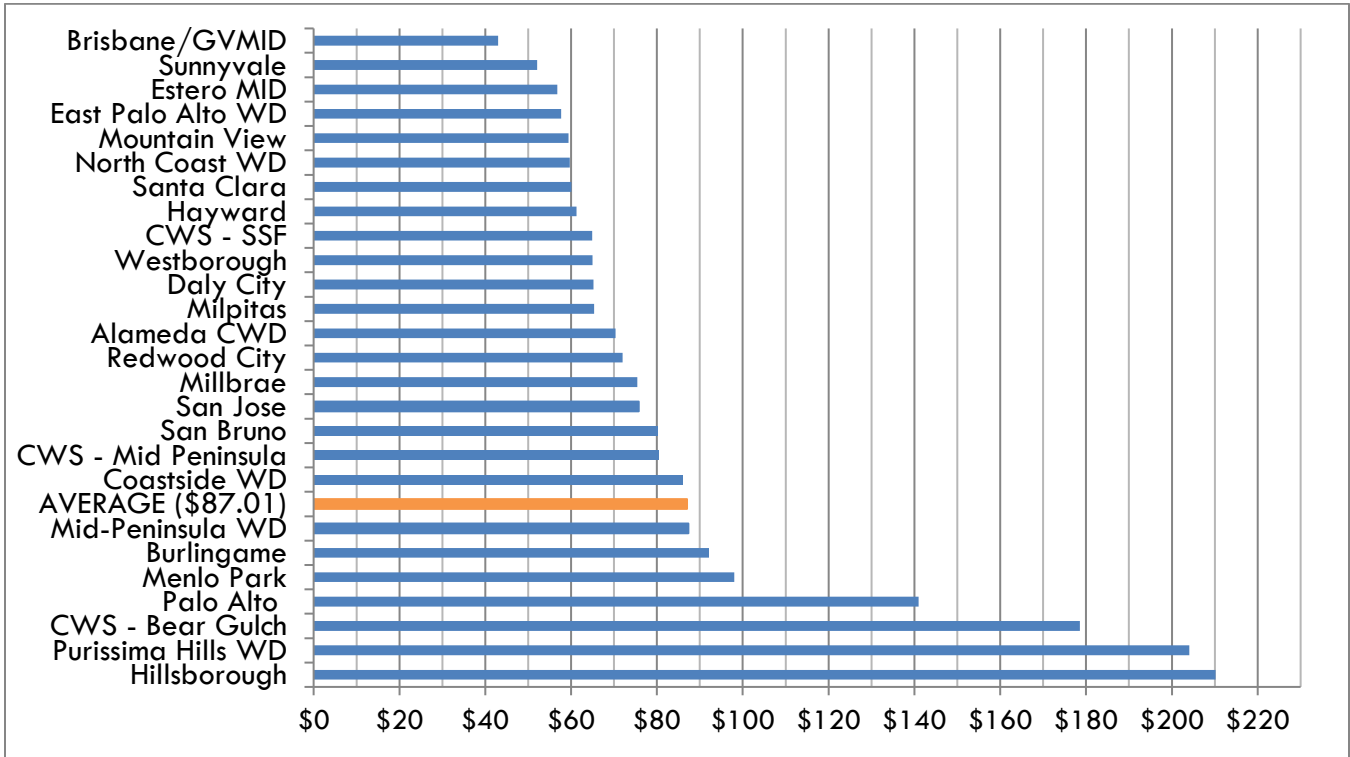


Figure 8B: Historical and Current SF RWS Wholesale Water Rates and BAWSCA Bond Surcharges FY 1985-85 to Present

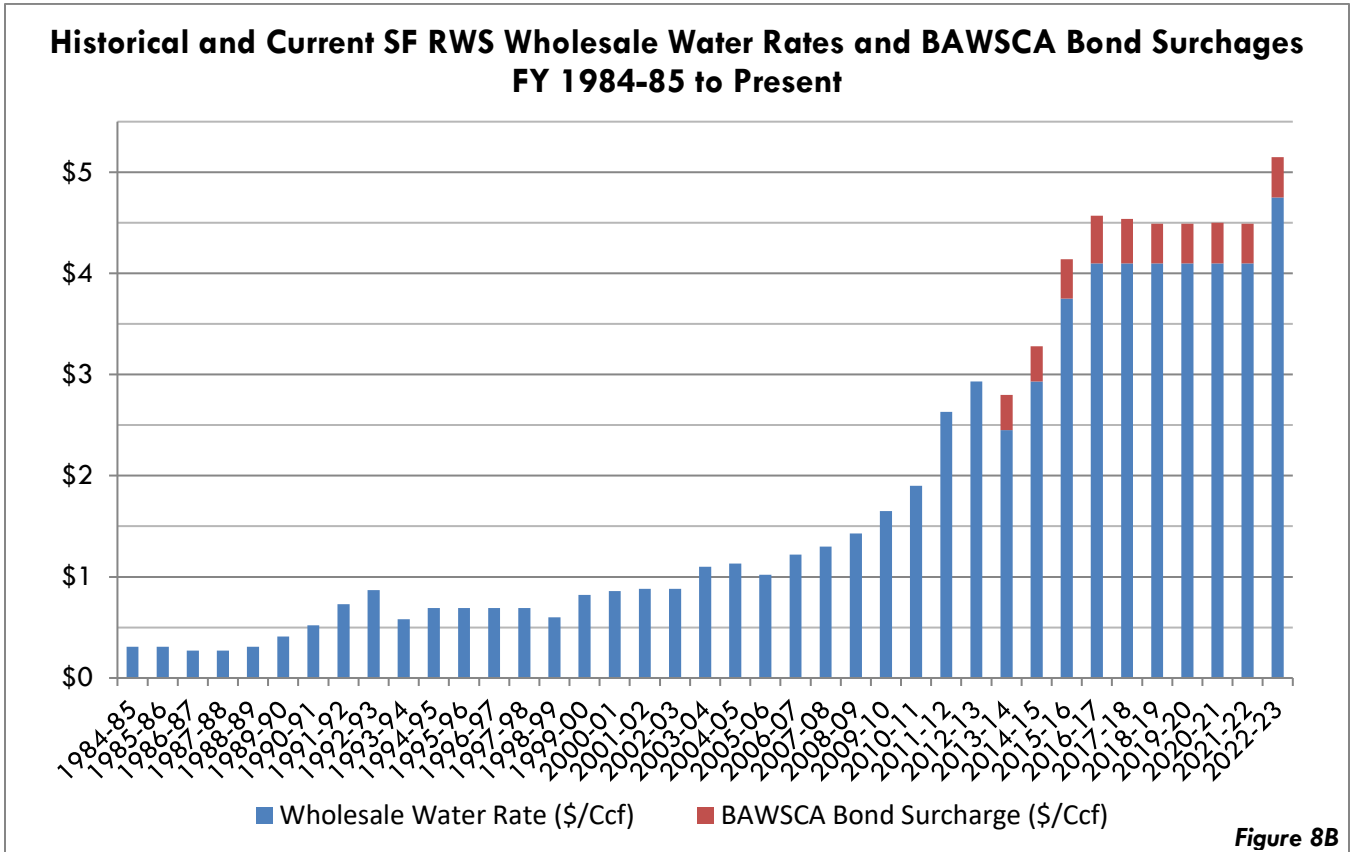


Figure 8B

Table 8A: Single Family Water Bills* Based on Average Monthly Use for 2022-23, Using Rates in Effect for FY 2022-23.

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	4.2		\$43.02
Sunnyvale	7.5		\$52.12
Estero MID		7.2	\$56.76
East Palo Alto	11.5		\$57.68
Mountain View	6.0		\$59.36
North Coast CWD		4.8	\$59.69
Santa Clara	8.2		\$60.04
Hayward	6.3		\$61.28
CWS - South SF		5.8	\$64.88
Westborough WD		5.0	\$64.96
Daly City	5.6		\$65.21
Milpitas	7.2		\$65.39
Alameda CWD		7.6	\$70.37
Redwood City	6.9		\$72.02
Millbrae	5.5		\$75.44
San Jose	5.8		\$75.76
San Bruno	7.5		\$80.32
CWS - Mid-Peninsula		7.5	\$80.52
Mid-Peninsula WD		6.6	\$87.33
Coastside CWD		5.1	\$86.09
Burlingame	6.8		\$92.14
Menlo Park	9.1		\$98.03
Palo Alto	9.7		\$140.98
CWS - Bear Gulch		17.9	\$178.60
Purissima Hills WD		22.8	\$204.08
Hillsborough	17.8		\$210.18
	7.9	9.0	\$87.01
* 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 2022-23 Annual Survey			

Table 8B: Single Family Water Bills* Based on Average Monthly Use for FY 2022-23, Using Rates in Effect for FY 2022-23

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	Remarks	
Alameda CWD 7.6	2	\$58.94	\$5.38				\$70.37	Effective:	3/1/2022
Brisbane/Guadalupe Valley MID 4.2	2	\$33.35	\$6.30	2 - 20			\$43.02	Effective:	2023-06-15
		3/4" meter		0 - 0					
Burlingame 6.8	2	\$84.03	\$7.32	0 - 4000			\$92.14	Effective:	2023-01-01
		5/8" and 3/4" meters	\$9.11	4001 - 8000					
			\$8.21	8001 - 16000					
			\$10.01	16001 - 24000					
			\$10.91	24001 +					
CWS - Bear Gulch 17.9	1	\$34.51	\$7.43	1 - 12			\$178.60	Effective:	2023-07-31
		5/8 x 3/4 inch meter	\$9.29	13 - 29					
			\$13.94	29 +					
CWS - Mid Peninsula 7.5	1	\$25.48	\$7.16	0 - 7			\$80.52	Effective:	2023-07-31
		5/8 x 3/4 inch meter	\$8.95	8 - 10					
			\$13.43	10 +					
CWS - South San Francisco 5.8	1	\$23.33	\$7.16	1 - 7			\$64.88	Effective:	2023-07-31
		5/8 x 3/4 inch meter	\$8.95	8 - 10					
			\$13.43	10 +					
Coastside CWD 5.1	1	\$33.78	\$10.75	1 - 4			\$86.09	Effective:	2023-01-19
			\$15.72	5 - 8					
			\$19.02	9 +					
Daly City 5.6	2	\$54.41	\$6.83	0 - 13			\$65.21	Effective:	2022-07-01
		Meter size 5/8" & 3/4"	\$9.04	14 26					
			\$8.68	27 +					
East Palo Alto 11.5	1	\$26.63	\$7.74	0 - 100000			\$57.68	Effective:	2023-01-19
		5/8" Meter							
Estero MID 7.2	2	\$26.05	\$6.10	0 - 20			\$56.76	Effective:	2022-07-01
		5/8" Meter	\$6.64	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 2022-23, Using Rates in Effect for FY 2022-23
Inclusive of Service Charge (2 of 3)**

Member/ Average Monthly Use (Units)	Billing Cycle	Service Charge	Rate per ccf	Rate Blocks (ccf)			Total Monthly Bill	Remarks
Hayward 6.3	2	\$35.45 5/8" meter	\$6.86 \$8.14 \$10.00	1 9 18	- - +	8 18	\$61.28	Effective: 2022-07-01
Hillsborough 17.8	2	\$141.48 Up to 3/4" Meter	\$7.82 \$10.74 \$16.40	0 20 44	- - -	20 44 70	\$210.18	Effective: 2023-06-30
Menlo Park 9.1	1	\$28.96 5/8" and 3/4"	\$5.34 \$7.16	1 6	- -	6	\$98.03	Effective: 2022-07-01
Mid-Peninsula WD 6.6	1	\$28.00 5/8"	\$6.97 \$9.80 \$11.71 \$13.61	0 3 10 55	- - -	2 9 22	\$87.33	Effective: 2023-07-01
Millbrae 5.5	2	\$26.70	\$11.20				\$75.44	Effective: 2023-01-19
Milpitas 7.2	2	\$34.10 5/8"	\$6.70				\$65.39	Effective: 2022-07-01
Mountain View 6.0	2	\$17.65 All single-family accounts	\$5.96 \$7.94 \$12.70	0 3 15	- - +	3 15	\$59.36	Effective: 2022-07-01
North Coast CWD 4.8	2	\$55.08	\$6.70 \$9.90 \$13.25 \$16.21	0 6 11 20	- - -	5 10 19	\$59.69	Effective: 2022-07-01
Palo Alto 9.7	1	\$21.06 5/8" Meter	\$7.20 \$10.96	0 7	- +	6	\$140.98	Effective: 2022-07-01
Purissima Hills WD 22.8	1	\$35.08 3/4" meter	\$6.21 \$8.36 \$11.87 \$15.42	1 11 30 59	- - -	10 29 58 9999	\$204.08	Effective: 2022-07-01

* 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 2022-23, Using Rates in Effect for FY 2022-23

Inclusive of Service Charge (3 of 3)

Member/ Average Monthly Use (Units)	Billing Cycle	Service Charge	Rate per ccf	Rate Blocks (ccf)			Total Monthly Bill	Effective:	Remarks
Redwood City 6.9	2	\$59.04	\$6.13	0	-	8	\$72.02	Effective:	2018-07-01
			\$7.35	9	-	20			
			\$10.20	21	-	40			
			\$13.45	41	+				
San Bruno 7.5	2	\$25.58	\$9.01	0	-	10	\$80.32	Effective:	2022-07-01
	3/4 inch meter size		\$10.78	11	-	20			
			\$14.33	21	+				
San Jose MWD-N 5.8	2	\$70.74	\$7.01	0	0	0	\$75.76	Effective:	2022-07-01
	5/8" and 3/4" meters.		\$0.00	0	0				
Santa Clara 8.2	1	\$21.48	\$7.33				\$60.04	Effective:	2022-06-21
									Service charge is the minimum monthly charge, not added if usage is greater than the minimum
Sunnyvale 7.5	2	\$31.20	\$4.89	0	-	10	\$52.12	Effective:	2022-07-01
	5/8 x 3/4" meter		\$5.70	11	-	##			
Westborough WD 5.0	2	\$44.00	\$8.58				\$64.96	Effective:	2022-07-01

* 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 Monthly Bill	Average Monthly Service Charge							
All BAWSCA Agencies	\$87.01	\$25.87							
Municipal Agencies Only	\$83.42	\$25.81							
Special Districts / Private	\$91.90	\$25.96							
** Inclusive of service charge									
Source: BAWSCA FY 2022-23 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
2022-23	\$ 4.75	\$ 0.40

*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	344,000
Number of Accounts	86,334
Number of SF RWS Connections	8
Connections to SF RWS Mains	BDPL 1, 2, 3, 4 and 5
Avg. Day Demand (mgd)	32.97
Avg. Day Purchases from SF RWS (mgd)	9.71
% Demand Met with SF RWS Supplies	29.46%
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 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)	Actual FY 22-23 (ccf)
San Francisco Water	3,840,640	4,585,161	4,625,134	4,738,636
State Water Project	5,546,495	7,336,376	5,412,329	3,147,646
Desalinated Water	3,764,574	3,733,289	3,208,556	2,976,738
Local Groundwater	3,427,942	3,583,690	3,444,116	2,685,294
Surface Water	2,320,887	231,304	1,216,196	2,538,677
Recycled Water	0	0	0	0
Total	18,900,527	19,469,820	17,906,331	16,086,991
mgd equivalent	38.73	39.90	36.70	32.97

Demand by Sector

Residential	11,131,726	11,654,792	10,732,633	9,872,128
Commercial/Industrial	3,013,144	3,055,890	3,166,669	2,985,929
Other	548,262	501,310	626,996	476,954
Dedicated Irrigation	2,358,131	2,478,129	2,037,116	1,499,927
Non-Revenue Water	1,849,275	1,779,699	1,342,917	1,252,052
Total	18,900,527	19,469,820	17,906,331	16,086,991
mgd equivalent	38.73	39.90	36.70	32.97

Per Capita Use	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)	Actual FY 22-23 (gpcpd)
Residential	64	67	64	59
Gross	108	111	106	96

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
			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 Place

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	2,069
Number of SF RWS Connections	5
Connections to SF RWS Mains	Crystal Springs Pipeline #1 and #2
Avg. Day Demand (mgd)	0.53
Avg. Day Purchases from SF RWS (mgd)	0.53
% 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 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)	Actual FY 22-23 (ccf)
San Francisco Water	310,127	303,604	298,906	258,323
Recycled Water	0	0	0	0
Other	0	0	0	0
Total	310,127	303,604	298,906	258,323
mgd equivalent	0.64	0.62	0.61	0.53

Demand by Sector

Residential	104,373	108,582	96,463	93,884
Commercial/Industrial	98,224	74,204	84,474	107,234
Other	1,711	27,929	10,285	6,599
Dedicated Irrigation	79,980	80,437	71,269	37,145
Non-Revenue Water	25,839	12,452	36,415	13,461
Total	310,127	303,604	298,906	258,323
mgd equivalent	0.64	0.62	0.61	0.53

Per Capita Use	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (ccf)	Actual FY 22-23 (ccf)
Residential	46	48	41	40
Gross	136	134	126	109

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 (GVMID)	Steel	1,000,000
Crocker Tank (GVMID)	Prestressed Concrete	1,000,000
Margaret Tank (Brisbane)	Steel	500,000
Total		2,900,000

Interties

Name	No.	Diameter (in.)
CWS - South San Francisco	1	16
Daly City	2	6, 12

City of Burlingame

501 Primrose Road
 Burlingame, California 94010-3997
 Phone: (650) 558-7230 Fax (650) 685-9310
 Web: <http://www.burlingame.org/>

Service Area

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

System

Profile

Area Size	5.5 square miles
Service Population	31,080
Number of Accounts	9,323
Number of SF RWS Connections	6
Connections to SF RWS Mains	Crystal Springs #2 and #3, Sunset Pipeline
Avg. Day Demand (mgd)	2.96
Avg. Day Purchases from SF RWS (mgd)	2.96
% Demand Met with SF RWS Supplies	100%
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 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)	Actual FY 22-23 (ccf)
San Francisco Water	1,696,711	1,604,743	1,640,372	1,444,244
Recycled Water	53,639	48,797	47,254	0
Other	0	0	0	0
Total	1,750,350	1,653,540	1,687,626	1,444,244
mgd equivalent	3.59	3.39	3.46	2.96

Demand by Sector

Residential	1,036,364	1,080,357	965,593	884,658
Commercial/Industrial	415,308	303,111	374,818	349,921
Other	30,133	26,508	56,562	49,217
Dedicated Irrigation	166,580	112,609	60,482	84,272
Non-Revenue Water	101,966	130,955	230,172	76,177
Total	1,750,350	1,653,540	1,687,626	1,444,244
mgd equivalent	3.59	3.39	3.46	2.96

Per Capita Use	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)	Actual FY 22-23 (gpcpd)
Residential	68	68	61	58
Gross	112	101	104	95

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	60,982
Number of Accounts	18,588
Number of SF RWS Connections	8
Connections to SF RWS Mains	BDPL 1 and 2, BDPL 3 and 4, Palo Alto Pipeline, (Bay Crossing 1 and 2)
Avg. Day Demand (mgd)	9.46
Avg. Day Purchases from SF RWS (mgd)	9.46
% Demand Met with SF RWS Supplies	100%
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 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)	Actual FY 22-23 (ccf)
San Francisco Water	5,566,308	5,836,065	5,114,178	4,618,546
Local Groundwater	0	0	0	0
Surface Water	0	0	113,504	0
Recycled Water	0	0	0	0
Other	0	0	0	0
Total	5,566,308	5,836,065	5,227,682	4,618,546
mgd equivalent	11.41	11.96	10.71	9.46

Demand by Sector

Residential	4,542,847	4,874,275	4,411,197	3,767,269
Commercial/Industrial	490,604	454,253	477,764	435,577
Other	148,110	142,077	144,171	129,827
Dedicated Irrigation	11,433	11,195	13,694	10,482
Non-Revenue Water	373,314	354,265	180,856	275,391
Total	5,566,308	5,836,065	5,227,682	4,618,546
mgd equivalent	11.41	11.96	10.71	9.46

Per Capita Use	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)	Actual FY 22-23 (gpcpd)
Residential	153	164	148	127
Gross	187	197	176	155

Facilities and Distribution

Storage Reservoirs

Designation	Type	Capacity (gallons)
Bear Gulch Reservoir*	Earth	215,000,000
Sta. 002-Tank 1	Steel	250,000
Sta. 002-Tank 2	Steel	500,000
Sta. 005-Tank 6	Fiberglass-Lined Redwood	100,000 (inactive)
Sta. 005-Tank 8	Steel	250,000
Sta. 005-Tank 9	Steel	1,000,000
Sta. 006-Tank 1	Steel	200,000
Sta. 007-Tank 5	Fiberglass-Lined Redwood	100,000
Sta. 015-Tank 1	Fiberglass-Lined Redwood	30,000
Sta. 016-Res.1	Steel	1,000,000
Sta. 017-Tank 1	Steel	250,000
Sta. 019-Tank 1	Steel	500,000
Sta. 019-Tank 2	Steel	500,000
Sta. 021-Tank 1	Steel	1,000,000
Sta. 021-Tank 2	Steel	1,000,000
Sta. 022-Tank 1	Steel	450,000
Sta. 025-Tank 1	Fiberglass-Lined Redwood	100,000
Sta. 027-Tank 4	Steel	750,000
Sta. 028-Tank 1	Steel	200,000

Designation	Type	Capacity (gallons)
Sta. 029-Tank 1	Fiberglass-Lined Redwood	100,000
Sta. 029-Tank 2	Fiberglass-Lined Redwood	100,000
Sta. 029-Tank 3	Steel	150,000
Sta. 030-Tank 1	Steel	1,000,000
Sta. 031-Tank 2	Steel	165,000
Sta. 032-Tank 1	Steel	250,000
Sta. 033-Tank 1	Steel	10,000
Sta. 034-Tank 1	Steel	75,000
Sta. 036-Tank 1	Steel	125,000
Sta. 037-Tank 1	Steel	55,000
Sta. 038-Tank 1	Steel	212,000
Sta. 039-Tank 1	Steel	282,000
Sta. 041-Tank 1	Steel	189,000
Sta. 041-Tank 2	Steel	192,000
Sta. 042-Tank 1	Steel	60,000
Sta. 042-Tank 2	Steel	60,000
Sta. 047-Tank 1	Steel	80,376
Sta. 047-Tank 2	Steel	80,376

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	137,660
Number of Accounts	35,897
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)	11.32
Avg. Day Purchases from SF RWS (mgd)	11.32
% 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 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)	Actual FY 22-23 (ccf)
San Francisco Water	6,292,879	6,336,593	6,074,256	5,525,097
Local Groundwater	0	0	0	0
Surface Water	0	0	0	0
Recycled Water	0	0	0	0
Other	0	0	0	0
Total	6,292,879	6,336,593	6,074,256	5,525,097
mgd equivalent	12.90	12.99	12.45	11.32

Demand by Sector

Residential	4,361,377	4,490,547	4,075,560	3,684,229
Commercial/Industrial	1,169,019	1,063,339	1,057,248	1,015,289
Other	382,057	345,231	337,275	334,645
Non-Revenue Water	380,426	237,164	604,173	490,940
Total	6,292,879	6,336,593	6,074,256	5,525,097
mgd equivalent	12.90	12.99	12.45	11.32

Per Capita Use	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)	Actual FY 22-23 (gpcpd)
Residential	65	67	61	55
Gross	94	94	91	82

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	64,062
Number of Accounts	16,462
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)	5.67
Avg. Day Purchases from SF RWS (mgd)	5.60
% Demand Met with SF RWS Supplies	98.68%
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 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)	Actual FY 22-23 (ccf)
SF RWS - Customary	2,291,209	2,222,223	2,868,442	2,768,049
SF RWS - Supplemental	670,301	668,470	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	2,961,510	2,890,693	2,868,442	2,768,049
mgd equivalent	6.07	5.92	5.88	5.67

Demand by Sector

Residential	1,278,910	1,107,523	1,214,617	1,153,900
Commercial/Industrial	1,557,250	1,401,125	1,522,188	1,412,002
Other	143,993	144,881	120,794	108,126
Non-Revenue Water	-18,643	237,164	10,843	94,021
Total	2,961,510	2,890,693	2,868,442	2,768,049
mgd equivalent	6.07	5.92	5.88	5.67

Per Capita Use	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)	Actual FY 22-23 (gpcpd)
Residential	42	36	39	37
Gross	96	94	92	89

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	18,890
Number of Accounts	7,694
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)	1.32
Avg. Day Purchases from SF RWS (mgd)	0.71
% Demand Met with SF RWS Supplies	53.80%
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 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)	Actual FY 22-23 (ccf)
San Francisco Water	496,627	705,680	468,075	349,993
Local Groundwater	12,272	12,099	12,340	9,118
Surface Water	382,259	168,436	291,430	288,883
Recycled Water	0	0	0	0
Total	891,158	886,215	771,845	644,994
mgd equivalent	1.83	1.82	1.58	1.32

Demand by Sector

Residential	486,477	499,242	428,202	391,972
Commercial/Industrial	46,340	41,741	40,365	114,555
Other	255,259	163,455	184,481	47,234
Dedicated Irrigation	48,645	144,202	100,379	70,519
Non-Revenue Water	54,437	37,575	18,418	20,714
Total	891,158	886,215	771,845	644,994
mgd equivalent	1.83	1.82	1.58	1.32

Per Capita Use	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)	Actual FY 22-23 (gpcpd)
Residential	53	54	47	43
Gross	97	97	84	70

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	107,000
Number of Accounts	23,546
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)	5.78
Avg. Day Purchases from SF RWS (mgd)	3.14
% Demand Met with SF RWS Supplies	54.21%
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 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)	Actual FY 22-23 (ccf)
San Francisco Water	1,939,670	1,722,950	1,776,082	1,530,084
SF RWS Supplemental Water	1,057,033	1,040,352	0	0
Local Groundwater	0	0	996,438	1,026,284
Recycled Water	142,642	114,263	307,487	266,292
Total	3,139,345	2,877,565	3,080,007	2,822,660
mgd equivalent	6.43	5.90	6.31	5.78

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

Demand by Sector

Residential	2,262,234	2,271,580	2,071,377	2,004,897
Commercial/Industrial	355,825	270,645	313,046	321,701
Other	26,541	69,456	70,286	75,828
Dedicated Irrigation	57,605	69,989	59,754	0
Non-Revenue Water	437,140	195,895	565,544	420,234
Total	3,139,345	2,877,565	3,080,007	2,822,660
mgd equivalent	6.43	5.90	6.31	5.78

Per Capita Use	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)	Actual FY 22-23 (ccf)
Residential	43	44	40	38
Gross (Less Recycled Water)	57	53	53	49

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	29,519
Number of Accounts	4,039
Number of SF RWS Connections	3
Connections to SF RWS Mains	BDPL 1 and 2
Avg. Day Demand (mgd)	1.39
Avg. Day Purchases from SF RWS (mgd)	1.38
% Demand Met with SF RWS Supplies	99.15%
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 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)	Actual FY 22-23 (ccf)
San Francisco Water	764,033	743,205	699,368	672,814
Resale SF RWS (Menlo Park)	0	0	0	0
Local Groundwater	415	5,252	5,466	5,801
Recycled Water	0	0	0	0
Other	0	0	0	0
Total	764,448	748,457	704,834	678,615
mgd equivalent	1.57	1.53	1.44	1.39

Demand by Sector

Residential	486,705	552,003	552,003	504,563
Commercial/Industrial	264,811	115,888	115,888	82,066
Other	11,038	19,386	19,384	11,551
Dedicated Irrigation	0	0	40,838	28,006
Non-Revenue Water	1,894	61,180	-23,279	52,429
Total	764,448	748,457	704,834	678,615
mgd equivalent	1.57	1.53	1.44	1.39

Per Capita Use	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)	Actual FY 22-23 (gpcpd)
Residential	38	44	44	35
Gross	60	59	56	47

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	37,443
Number of Accounts	8,268
Number of SF RWS Connections	1
Connections to SF RWS Mains	Crystal Springs #2
Avg. Day Demand (mgd)	3.76
Avg. Day Purchases from SF RWS (mgd)	3.76
% 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 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)	Actual FY 22-23 (ccf)
San Francisco Water	2,115,607	2,101,104	1,887,409	1,833,938
Local Groundwater	0	0	0	0
Surface Water	0	0	0	0
Recycled Water	0	0	0	0
Other	0	0	0	0
Total	2,115,607	2,101,104	1,887,409	1,833,938
mgd equivalent	4.34	4.31	3.87	3.76

Demand by Sector

Residential	1,133,931	1,205,764	1,068,179	992,677
Commercial/Industrial	201,896	146,934	157,708	176,433
Other	28,642	22,514	21,665	23,880
Dedicated Irrigation	554,625	565,250	482,115	364,998
Non-Revenue Water	196,513	160,642	156,742	275,950
Total	2,115,607	2,101,104	1,887,409	1,833,938
mgd equivalent	4.34	4.31	3.87	3.76

Per Capita Use	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)	Actual FY 22-23 (gpcpd)
Residential	62	66	66	54
Gross	115	114	117	100

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	159,800
Number of Accounts	36,644
Number of SF RWS Connections	4 (two at each turnout)
Connections to SF RWS Mains	BDPL 1 and 2
Avg. Day Demand (mgd)	13.07
Avg. Day Purchases from SF RWS (mgd)	12.91
% Demand Met with SF RWS Supplies	98.80%
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-

foot elevation pressure 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 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)	Actual FY 22-23 (ccf)
San Francisco Water	6,794,224	7,098,330	6,854,523	6,301,398
Local Groundwater	0	0	0	0
Recycled Water*	0	0	10,433	76,640
Total	6,794,224	7,098,330	6,864,956	6,378,038
mgd equivalent	13.92	14.55	14.07	13.07

*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	3,726,969	3,900,465	3,614,790	3,472,598
Commercial/Industrial	1,627,967	1,289,268	1,280,048	1,293,305
Other	558,187	488,247	456,427	409,088
Dedicated Irrigation	923,004	959,411	825,279	742,732
Non-Revenue Water	-41,903	460,939	688,412	460,316
Total	6,794,224	7,098,330	6,864,956	6,378,038
mgd equivalent	13.92	14.55	14.07	13.07

Per Capita Use	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)	Actual FY 22-23 (gpcpd)
Residential	48	49	46	45
Gross	87	89	87	81

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	11,592
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)	2.05
Avg. Day Purchases from SF RWS (mgd)	2.05
% 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 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)	Actual FY 22-23 (ccf)
San Francisco Water	1,280,605	1,314,680	1,141,504	1,000,717
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	1,280,605	1,314,680	1,141,504	1,000,717
mgd equivalent	2.62	2.69	2.34	2.05

Demand by Sector ²

Residential	1,144,715	1,218,782	1,058,579	896,796
Commercial/Industrial	19,896	4,193	3,998	3,949
Institutional/Other	15,751	16,094	13,917	12,201
Dedicated Irrigation	23,524	28,830	33,112	31,453
Non-Revenue Water	68,946	46,781	31,898	56,318
Total	1,280,605	1,314,680	1,141,504	1,000,717
mgd equivalent	2.62	2.69	2.34	2.05

Per Capita Use	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)	Actual FY 22-23 (gpcpd)
Residential	216	219	190	159
Gross	242	236	205	177

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.gov
 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	20,319
Number of Accounts	4,366
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)	2.19
Avg. Day Purchases from SF RWS (mgd)	2.19
% Demand Met with SF RWS Supplies	100%
Maximum Local Water Production (mgd)	0
Alternative Supply Sources	One well for emergency purposes only (under construction)
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. West Bay Sanitary District currently provides recycled water to one irrigation customer in Menlo Park's service area. They plan to expand their system in the future.

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 (under construction) are the primary emergency sources of water for Menlo Park.

Water Supply and Demand

Supply by Source	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)	Actual FY 22-23 (ccf)
San Francisco Water	1,442,176	1,379,039	1,195,123	1,070,006
Recycled Water	0	0	0	0
Other	0	0	0	0
Total	1,442,176	1,379,039	1,195,123	1,070,006
mgd equivalent	2.96	2.83	2.45	2.19

Demand by Sector

Residential	597,601	600,474	511,259	499,549
Commercial/Industrial	488,095	436,302	422,508	365,687
Other	114,087	128,222	135,806	115,441
Dedicated Irrigation	188,177	155,024	124,289	88,219
Non-Revenue Water	54,216	59,017	1,261	1,110
Total	1,442,176	1,379,039	1,195,123	1,070,006
mgd equivalent	2.96	2.83	2.45	2.19

Per Capita Use	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)	Actual FY 22-23 (gpcpd)
Residential	67	64	49	50
Gross	162	146	115	108

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

1075 Old County Road, Suite A,
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	30,159
Number of Accounts	8,128
Number of SF RWS Connections	2
Connections to SF RWS Mains	BDPL 1 and 2, Crystal Springs Bypass Tunnel
Avg. Day Demand (mgd)	2.16
Avg. Day Purchases from SF RWS (mgd)	2.16
% 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 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)	Actual FY 22-23 (ccf)
San Francisco Water	1,295,922	1,273,998	1,172,923	1,055,377
Local Groundwater	0	0	0	0
Surface Water	0	0	0	0
Recycled Water	0	0	0	0
Other	0	0	0	0
Total	1,295,922	1,273,998	1,172,923	1,055,377
mgd equivalent	2.66	2.61	2.40	2.16

Demand by Sector

Residential	916,630	953,609	836,837	778,506
Commercial/Industrial	195,733	166,362	158,757	146,697
Other	38,161	34,506	33,109	31,950
Dedicated Irrigation	102,741	93,605	85,783	65,383
Non-Revenue Water	42,657	25,916	58,437	32,841
Total	1,295,922	1,273,998	1,172,923	1,055,377
mgd equivalent	2.66	2.61	2.40	2.16

Per Capita Use	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)	Actual FY 22-23 (gpcpd)
Residential	70	71	58	53
Gross	98	95	81	72

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	21,579
Number of Accounts	6,769
Number of SF RWS Connections	5
Connections to SF RWS Mains	Murchison, Greenhills, Park, 195 ECR, Helen
Avg. Day Demand (mgd)	1.74
Avg. Day Purchases from SF RWS (mgd)	1.74
% 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 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)	Actual FY 22-23 (ccf)
San Francisco Water	927,939	906,122	900,514	850,047
Local Groundwater	0	0	0	0
Surface Water	0	0	0	0
Recycled Water	12,000	0	0	0
Other	0	0	0	0
Total	939,939	906,122	900,514	850,047
mgd equivalent	1.93	1.86	1.85	1.74

Demand by Sector

Residential	603,740	625,079	552,391	530,140
Commercial/Industrial	146,136	66,540	70,805	142,691
Other	27,096	61,427	18,731	19,564
Dedicated Irrigation	69,292	78,444	67,232	65,013
Non-Revenue Water	93,675	74,632	191,355	92,639
Total	939,939	906,122	900,514	850,047
mgd equivalent	1.93	1.86	1.85	1.74

Per Capita Use	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)	Actual FY 22-23 (gpcpd)
Residential	54	56	51	53
Gross (less recycled water)	83	81	83	84

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	81067
Number of Accounts	16,690
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)	8.15
Avg. Day Purchases from SF RWS (mgd)	4.57
% Demand Met with SF RWS Supplies	56.11%
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 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)	Actual FY 22-23 (ccf)
San Francisco Water	2,886,833	2,647,856	2,251,779	2,230,517
Santa Clara Valley WD	1,226,711	1,526,474	1,589,861	1,402,379
Recycled Water	469,458	415,177	423,744	342,451
Other	0	0	0	0
Total	4,583,002	4,589,507	4,265,384	3,975,347
mgd equivalent	9.39	9.41	8.74	8.15

Demand by Sector

Residential	1,946,099	2,152,431	2,036,897	1,960,244
Commercial/Industrial	846,889	891,128	792,330	785,640
Other	111,402	103,921	114,066	135,753
Dedicated Irrigation	901,527	753,134	805,639	547,953
Non-Revenue Water	777,085	688,893	516,452	545,757
Total	4,583,002	4,589,507	4,265,384	3,975,347
mgd equivalent	9.39	9.41	8.74	8.15

Per Capita Use	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)	Actual FY 22-23 (gpcpd)
Residential	51	57	52	50
Gross (Less Recycled Water)	108	110	97	92

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	81,501
Number of Accounts	17,988
Number of SF RWS Connections	3 turnouts/ 9 meters
Connections to SF RWS Mains	BDPL 3 and 4
Avg. Day Demand (mgd)	7.95
Avg. Day Purchases from SF RWS (mgd)	6.72
% Demand Met with SF RWS Supplies	84.54%
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)	17.3
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 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)	Actual FY 22-23 (ccf)
San Francisco Water	3,740,804	3,855,612	3,581,200	3,279,562
Santa Clara Valley WD	463,239	453,691	405,634	365,939
Local Groundwater	112,912	57,895	46,002	50,108
Recycled Water	160,299	191,957	188,938	183,487
Total	4,477,254	4,559,155	4,221,774	3,879,095
mgd equivalent	9.18	9.34	8.65	7.95

Demand by Sector

Residential	2,428,520	2,536,456	2,307,012	2,172,873
Commercial/Industrial	732,085	540,433	619,103	632,659
Other	3,190	3,392	1,778	2,942
Dedicated Irrigation	1,156,950	1,195,722	1,085,804	806,800
Non-Revenue Water*	156,509	283,152	208,077	263,821
Total	4,477,254	4,559,155	4,221,774	3,879,095
mgd equivalent	9.18	9.34	8.65	7.95

Per Capita Use	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)	Actual FY 22-23 (gpcpd)
Residential	62	63	58	55
Gross	111	108	101	93

Facilities and Distribution**Storage Reservoirs**

Designation	Type	Capacity (gallons)	Designation	Type	Capacity (gallons)
Miramonte	Concrete	1,200,000	Whisman	Concrete	6,000,000
Miramonte	Concrete	2,100,000	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	Active
			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	37,082
Number of Accounts	13,170
Number of SF RWS Connections	1
Connections to SF RWS Mains	San Andreas 3
Avg. Day Demand (mgd)	2.13
Avg. Day Purchases from SF RWS (mgd)	2.10
% Demand Met with SF RWS Supplies	98.45%
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 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)	Actual FY 22-23 (ccf)
San Francisco Water	1,157,526	1,172,219	1,068,893	1,024,588
Recycled Water	28,510	22,198	15,744	16,151
Other	0	0	0	0
Total	1,186,036	1,194,417	1,084,637	1,040,739
mgd equivalent	2.43	2.45	2.22	2.13

Demand by Sector

Residential	856,032	915,799	806,906	784,583
Commercial/Industrial	95,952	82,724	90,075	89,498
Other	54,608	56,475	75,292	65,419
Dedicated Irrigation	55,668	51,256	52,299	41,900
Non-Revenue Water	123,776	88,163	60,065	59,339
Total	1,186,036	1,194,417	1,084,637	1,040,739
mgd equivalent	2.43	2.45	2.22	2.13

Per Capita Use	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)	Actual FY 22-23 (gpcpd)
Residential	45	49	44	43
Gross	62	63	58	57

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	68,624
Number of Accounts	20,098
Number of SF RWS Connections	5
Connections to SF RWS Mains	Palo Alto Pipeline, BDPL 3 and 4
Avg. Day Demand (mgd)	9.56
Avg. Day Purchases from SF RWS (mgd)	8.63
% Demand Met with SF RWS Supplies	90.26%
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 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)	Actual FY 22-23 (ccf)
San Francisco Water	4,757,199	4,953,805	4,709,184	4,210,400
Local Groundwater	0	0	0	0
Recycled Water	380,458	498,649	476,934	454,561
Other	0	0	0	0
Total	5,137,657	5,452,454	5,186,118	4,664,961
mgd equivalent	10.53	11.17	10.63	9.56

Demand by Sector

Residential	2,946,443	3,097,067	2,771,300	2,384,451
Commercial/Industrial	837,673	734,025	808,852	794,929
Other	710,137	694,338	651,375	592,658
Dedicated Irrigation	556,858	744,143	703,976	549,094
Non-Revenue Water	86,546	182,881	250,615	343,829
Total	5,137,657	5,452,454	5,186,118	4,664,961
mgd equivalent	10.53	11.17	10.63	9.56

Per Capita Use	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)	Actual FY 22-23 (gpcpd)
Residential	90	95	84	71
Gross (Less Recycled Water)	145	152	142	126

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	7,350
Number of Accounts	2,132
Number of SF RWS Connections	2
Connections to SF RWS Mains	BDPL 3 and 4
Avg. Day Demand (mgd)	1.31
Avg. Day Purchases from SF RWS (mgd)	1.31
% Demand Met with SF RWS Supplies	100%
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 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)	Actual FY 22-23 (ccf)
San Francisco Water	851,999	925,721	799,210	639,836
Recycled Water	0	0	0	0
Other	0	0	0	0
Total	851,999	925,721	799,210	639,836
Mgd equivalent	1.75	1.90	1.64	1.31

Demand by Sector

Residential	746,898	823,222	746,898	572,579
Commercial/Industrial	0	2	0	0
Other	42,089	45,488	45,485	29,477
Dedicated Irrigation	4,814	5,089	4,814	0
Non-Revenue Water	58,198	51,920	2,013	393,421
Total	851,999	925,721	799,210	639,836
Mgd equivalent	1.75	1.90	1.64	1.31

Per Capita Use	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)	Actual FY 22-23 (gpcpd)
Residential	249	274	249	160
Gross	284	308	266	178

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	90,928
Number of Accounts	24,249
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)	7.74
Avg. Day Purchases from SF RWS (mgd)	7.25
% Demand Met with SF RWS Supplies	93.65%
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 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)	Actual FY 22-23 (ccf)
San Francisco Water	4,276,459	4,137,728	3,855,958	3,536,397
Recycled Water	374,651	361,259	313,616	239,775
Other	0	0	0	0
Total	4,651,110	4,498,987	4,169,575	3,776,172
mgd equivalent	9.53	9.22	8.54	7.74

Demand by Sector

Residential	2,723,209	2,860,045	2,554,867	2,397,558
Commercial/Industrial	647,016	532,901	576,384	555,171
Other	98,527	76,287	86,787	77,826
Dedicated Irrigation	721,453	701,616	619,822	451,770
Non-Revenue Water	460,905	328,138	331,715	293,847
Total	4,651,110	4,498,987	4,169,575	3,776,172
mgd equivalent	9.53	9.22	8.54	7.74

Per Capita Use	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)	Actual FY 22-23 (gpcpd)
Residential	62	66	59	54
Gross (Less Recycled Water)	97	95	89	80

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	43,910
Number of Accounts	11,206
Number of SF RWS Connections	5
Connections to SF RWS Mains	Crystal Springs # 2 and #3, San Andreas 1, 2, and 3, Sunset Pipeline
Avg. Day Demand (mgd)	2.95
Avg. Day Purchases from SF RWS (mgd)	1.22
% Demand Met with SF RWS Supplies	41.24%
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 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)	Actual FY 22-23 (ccf)
SF RWS - Customary	465,406	444,989	507,220	593,241
SF RWS - Supplemental	922,606	883,411	0	0
Local Groundwater	110,306	165,404	961,490	845,341
Surface Water	0	0	0	0
Recycled Water	0	0	0	0
Other (North Coast CWD)*	13,148	12,773	12,040	0
Total	1,511,466	1,506,577	1,480,750	1,438,582
mgd equivalent	3.10	3.09	3.03	2.95

*Water typically included in
"Other" is now accounted for in
NCCWD production.*

Demand by Sector

Residential	1,041,885	988,676	1,032,586	944,436
Commercial/Industrial	266,655	235,600	269,983	247,539
Other	90,312	82,914	72,182	58,940
Non-Revenue Water	112,614	199,387	105,999	187,667
Total	1,511,466	1,506,577	1,480,750	1,438,582
mgd equivalent	3.10	3.09	3.03	2.95

Per Capita Use	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)	Actual FY 22-23 (gpcpd)
Residential	48	46	48	44
Gross	70	70	68	67

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) 277-3671

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	43,036
Number of Accounts	2,405
Number of SF RWS Connections	2
Connections to SF RWS Mains	BDPL 3 and 4
Avg. Day Demand (mgd)	4.45 Potable and Recycled
Avg. Day Purchases from SF RWS (mgd)	3.72
% Demand Met with SF RWS Supplies	83.64%
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 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)	Actual FY 22-23 (ccf)
San Francisco Water	2,077,874	2,039,631	2,004,207	1,817,070
Local Groundwater	15,871	15,197	14,866	15,394
Recycled Water	405,919	479,208	462,435	340,100
Other	0	0	0	0
Total	2,499,664	2,534,036	2,481,508	2,172,564
mgd equivalent	5.12	5.19	5.09	4.45

Demand by Sector

Residential	793,634	808,654	754,495	738,698
Commercial/Industrial	880,647	834,956	849,963	746,654
Other	33,518	32,500	28,957	22,620
Dedicated Irrigation	745,523	715,964	708,871	554,144
Non-Revenue Water	46,343	141,962	138,222	110,448
Total	2,499,664	2,534,036	2,481,508	2,172,564
mgd equivalent	5.12	5.19	5.09	4.45

Per Capita Use	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)	Actual FY 22-23 (gpcpd)
Residential	46	44	38	35
Gross (Less Recycled Water)	121	111	102	87

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	132,476
Number of Accounts	26,207
Number of SF RWS Connections	2
Connections to SF RWS Mains	BDPL 3 and 4
Avg. Day Demand (mgd)	17.63
Avg. Day Purchases from SF RWS (mgd)	2.88
% Demand Met with SF RWS Supplies	16.35%
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, San Jose Muni, SJWC, Cal-Water, Sunnyvale
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, commercial dual plumbing and certain industrial uses, distributed within Santa Clara by about 33 miles of pipeline.

Water Supply and Demand

Supply by Source	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)	Actual FY 22-23 (ccf)
San Francisco Water	1,596,791	1,576,338	1,515,536	1,407,256
Santa Clara Valley WD	1,806,417	1,769,252	1,530,108	1,437,869
Local Groundwater	4,562,700	4,562,565	4,447,151	4,269,622
Recycled Water	1,651,515	1,545,861	1,602,429	1,490,135
Other	0	0	0	0
Total	9,617,423	9,454,016	9,095,223	8,604,882
mgd equivalent	19.71	19.37	18.64	17.63

Demand by Sector

Residential	4,033,373	4,127,523	3,840,241	3,552,695
Commercial/Industrial	4,517,414	2,426,325	4,246,897	3,837,433
Other	624,105	2,401,508	859,031	821,334
Dedicated Irrigation	0	0	0	0
Non-Revenue Water	442,531	498,660	149,054	393,421
Total	9,617,423	9,454,016	9,095,223	8,604,882
mgd equivalent	19.71	19.37	18.64	17.63

Per Capita Use	Actual FY 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)	Actual FY 22-23 (ccf)
Residential	62	62	56	53
Gross (Less Recycled Water)	126	124	117	110

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
Well 2-02	2.7	Active
Well 3-02	2.6	Active
Well 4	1.4	Active
Well 5-02	2.3	Inactive
Well 7	1.7	Active
Well 8	1.6	Active
Well 9-02	1.5	Active
Well 10	2.4	Active
Well 11	2.5	Inactive
Well 12	2.1	Active
Well 13-02	2.4	Active
Well 15	1.2	Active

Name	Capacity (mgd)	Status
Well 16-02	1.6	Inactive
Well 17-02	2.9	Active
Well 18-02	1.9	Active
Well 21	2.6	Inactive
Well 22-02	1.7	Active
Well 23	2.6	Inactive
Well 24	2.2	Active
Well 25	1.3	Active
Well 26	1.4	Inactive
Well 28	2.8	Active
Well 29	2.7	Active
Well 30	2.0	Active
Well 32	1.3	Standby
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, Utilities & Infrastructure Department supplies water to the campus area and nearby Stanford unincorporated lands.

System

Profile

Area Size	3.1 square miles
Service Population	33,827*
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)	2.50
Avg. Day Purchases from SF RWS (mgd)	1.39
% Demand Met with SF RWS Supplies	55.45% (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 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)	Actual FY 22-23 (ccf)
San Francisco Water	699,352	659,830	714,224	677,245
Local Groundwater	0	0	0	0
Recycled Water	0	0	0	0
Surface Water	0	0	0	0
Other	521,726	538,983	513,069	544,139
Total	1,221,078	1,198,813	1,227,293	1,221,384
mgd equivalent	2.50	2.46	2.52	2.50

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	381,216	383,290	281,216	402,723
Commercial/Industrial	73,482	72,869	72,962	65,310
Other	160,343	123,189	154,952	283,297
Dedicated Irrigation	540,451	540,451	540,451	425,485
Non-Revenue Water	65,587	79,014	78,911	44,569
Total	1,221,078	1,198,813	1,228,492	1,221,384
mgd equivalent	2.50	2.46	2.52	2.50

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 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)	Actual FY 22-23 (gpcpd)
Residential	n/a	n/a	n/a	n/a
Gross	78	180	78	74

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 (Formerly 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	156,317
Number of Accounts	29,423
Number of SF RWS Connections	6
Connections to SF RWS Mains	BDPL 3 and 4
Avg. Day Demand (mgd)	15.31
Avg. Day Purchases from SF RWS (mgd)	7.92
% Demand Met with SF RWS Supplies	51.78%
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 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)	Actual FY 22-23 (ccf)
San Francisco Water	4,552,465	4,686,275	4,490,365	3,866,964
Santa Clara Valley WD	3,883,226	4,051,093	3,561,374	3,493,579
Local Groundwater	40,733	36,312	58,775	54,637
Surface Water	0	0	0	0
Recycled Water	255,326	83,796	134,003	53,557
Other	0	0	0	0
Total	8,731,750	8,857,476	8,244,518	7,468,737
mgd equivalent	17.89	18.15	16.90	15.31

Demand by Sector

Residential	4,825,227	5,120,577	4,578,634	4,218,393
Commercial/Industrial	1,585,185	1,495,257	1,525,048	1,420,780
Other	98,796	100,508	90,000	79,468
Dedicated Irrigation	1,466,128	1,689,040	1,370,146	1,139,508
Non-Revenue Water	756,414	452,095	680,690	610,588
Total	8,731,750	8,857,476	8,244,518	7,468,737
mgd equivalent	17.89	18.15	16.90	15.31

Per Capita Use	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)	Actual FY 22-23 (gpcpd)
Residential	63	67	60	55
Gross (Less Recycled Water)	111	115	106	97

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	3,957
Number of SF RWS Connections	1
Connections to SF RWS Mains	San Andreas 1, 2, and 3
Avg. Day Demand (mgd)	0.70
Avg. Day Purchases from SF RWS (mgd)	0.70
% Demand Met with SF RWS Supplies	100%
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 19-20 (ccf)	Actual FY 20-21 (ccf)	Actual FY 21-22 (ccf)	Actual FY 22-23 (ccf)
San Francisco Water	400,616	373,994	301,090	339,960
Local Groundwater	0	0	0	0
Surface Water	0	0	0	0
Recycled Water	0	0	0	0
Other	0	0	26,041	0
Total	400,616	373,994	327,131	339,960
mgd equivalent	0.82	0.77	0.67	0.70

Demand by Sector

Residential	293,470	298,605	272,559	261,062
Commercial/Industrial	33,950	28,811	30,987	33,612
Other	0	9	0	0
Dedicated Irrigation	36,286	43,134	35,092	26,790
Non-Revenue Water	36,910	3,435	-11,507	19,239
Total	400,616	373,994	327,131	339,960
mgd equivalent	0.82	0.77	0.67	0.70

Per Capita Use	Actual FY 19-20 (gpcpd)	Actual FY 20-21 (gpcpd)	Actual FY 21-22 (gpcpd)	Actual FY 22-23 (gpcpd)
Residential	47	45	41	40
Gross	65	57	50	52

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