



“A multicounty agency authorized to plan for and acquire supplemental water supplies, encourage water conservation and use of recycled water on a regional basis.”

[BAWSCA Act, AB2058 (Papan-2002)]

BAWSCA Annual Survey for FY 2018-19

**San Mateo County Resource
Management and Climate
Protection Committee**

**Tom Francis
BAWSCA
June 17, 2020**

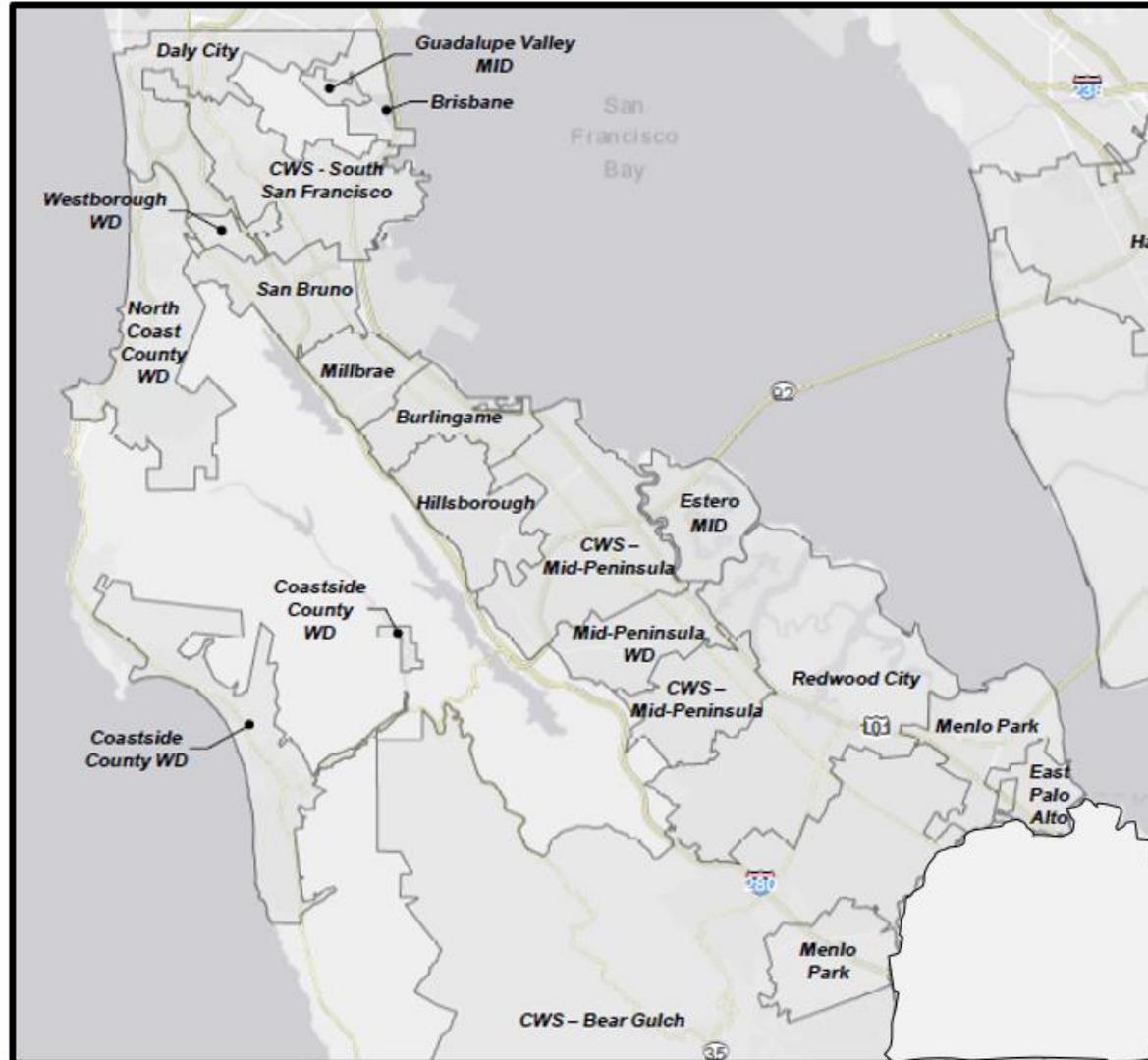
About BAWSCA

- BAWSCA is a Special District formed in 2003
- BAWSCA represents the interests of 26 member water suppliers that purchase water from the SF Regional Water System
 - 16 cities , 8 water districts, a university, and a private water company
 - All located in San Mateo, Santa Clara and Alameda County
- BAWSCA provides regional water supply planning, resource development, and conservation program services
- In total, our members serve over 1.8 million people and 40,000 businesses
- BAWSCA's goal is to ensure a reliable supply of high quality water at a fair price

In San Mateo County

BAWSCA Coverage in San Mateo County:

- 19 Water Suppliers
 - CWS – 3 Districts
 - GVMID/Brisbane - Combined
- 751,000 Customers
- 185 square miles

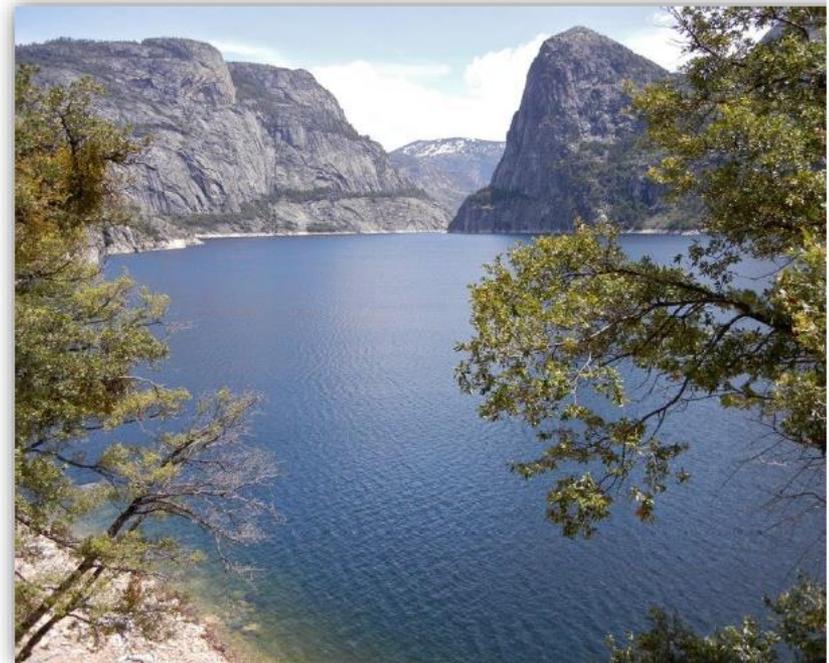


BAWSCA Annual Survey – FY 2018-19

Annual Survey Overview

- Prepared every year since 1996
- Used to update key BAWSCA service area information
- Surveys prepared during the following FY
- Contents include:
 - 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

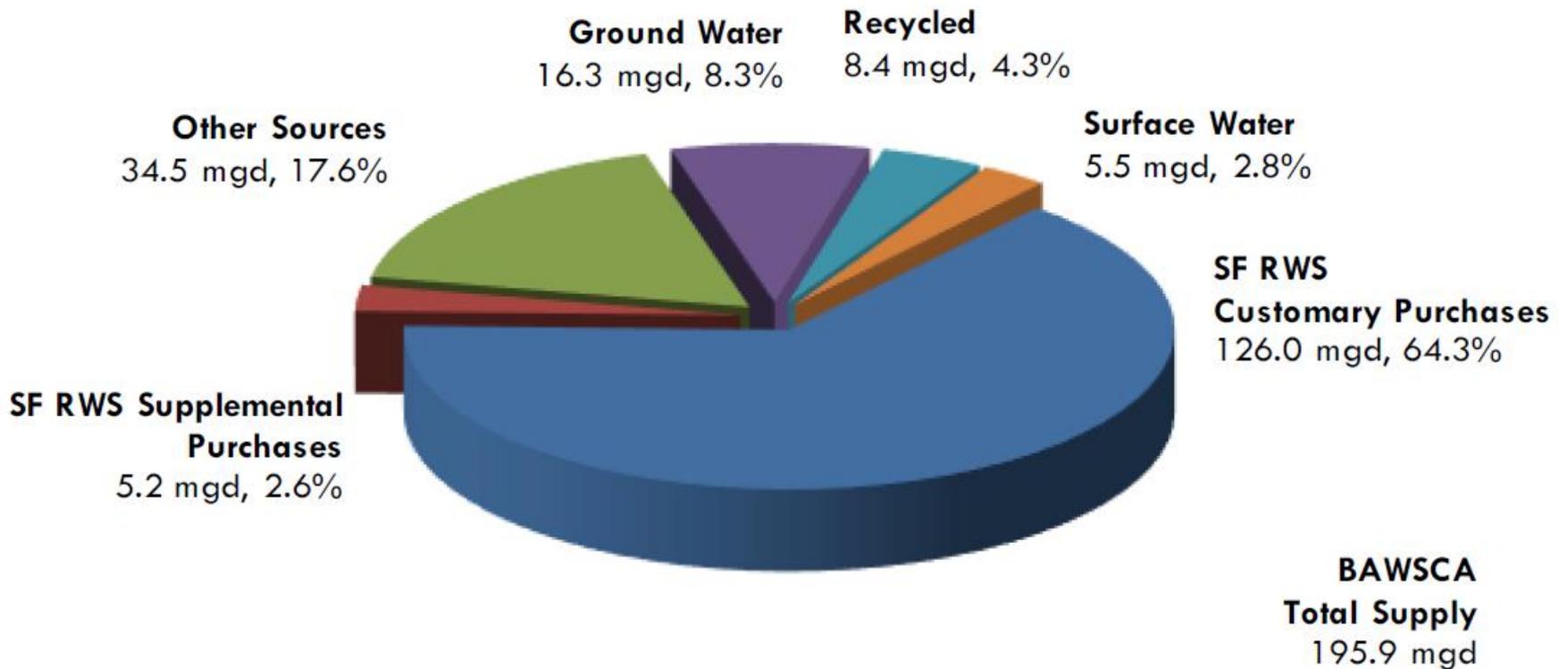
ANNUAL SURVEY



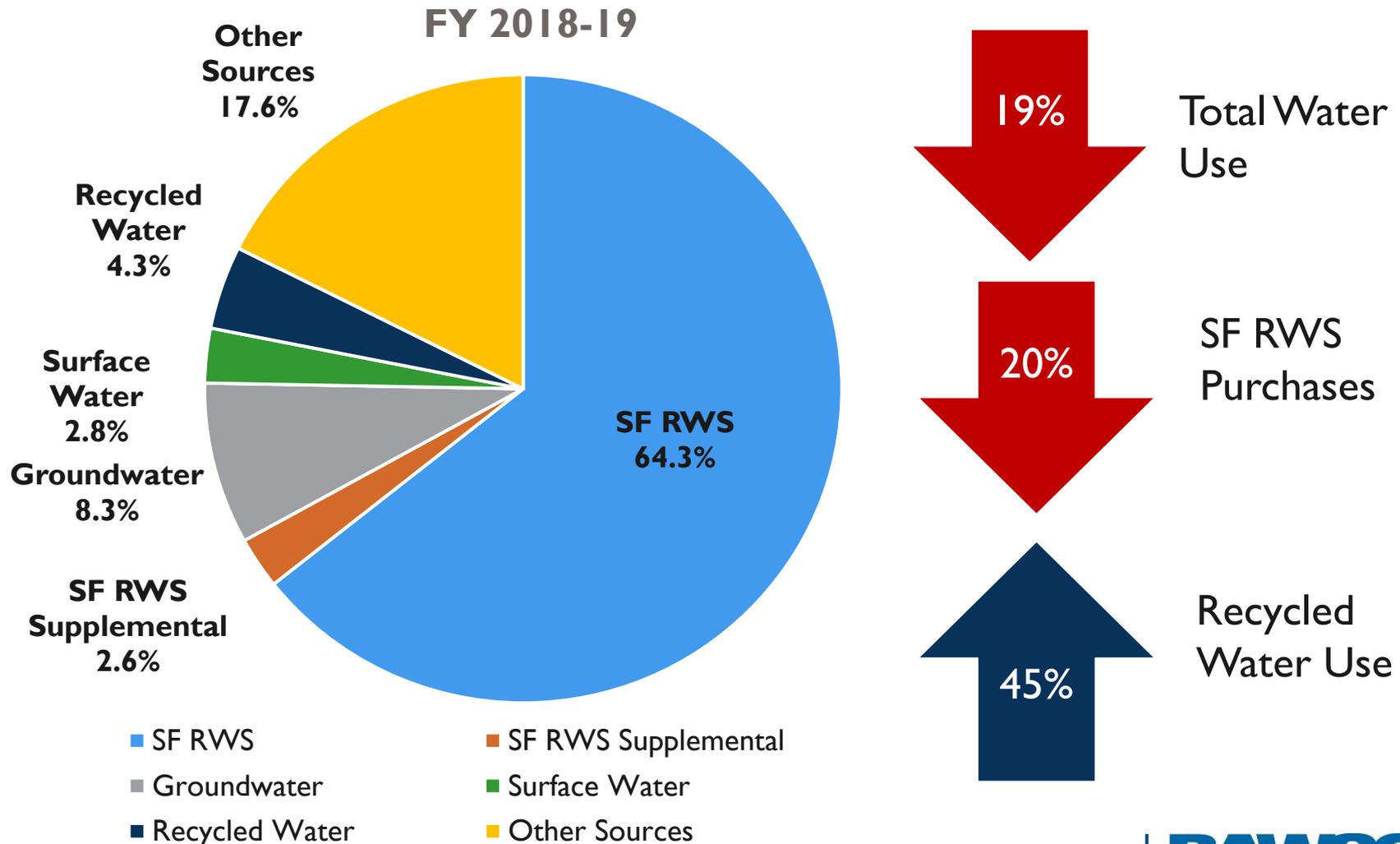
March
2020

Fiscal Year 2018-19

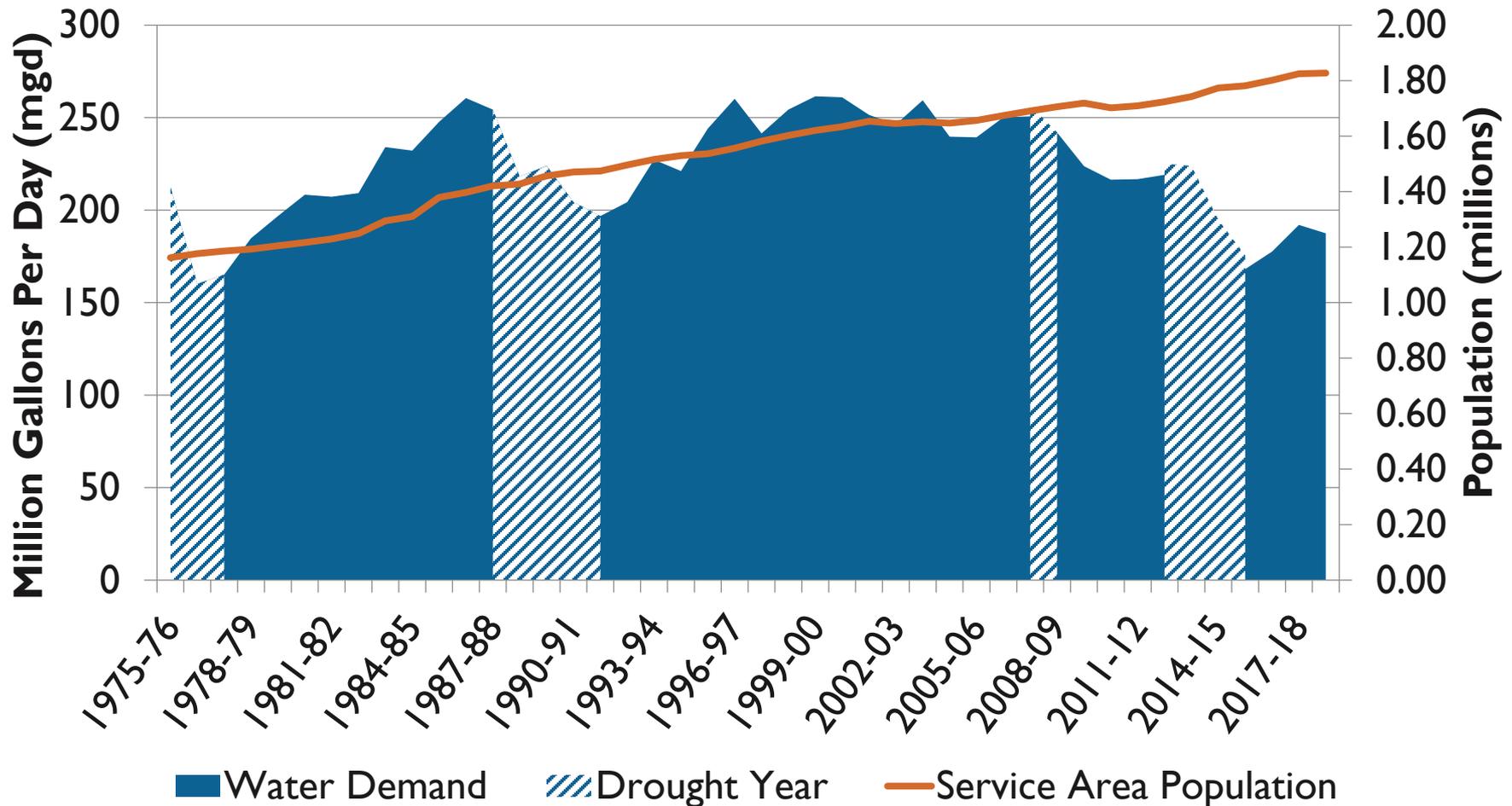
FY 2018-19 Water Use By Source



The Past 10 Years: BAWSCA Agency Water Supply Development and Conservation



25% Less Water Used Today in BAWSCA Region Compared to FY 1986-87 Despite a 32% Population Increase



Note: The numbers plotted do not include recycled water demand

Water Use by Customer Class (FY 2018-19)

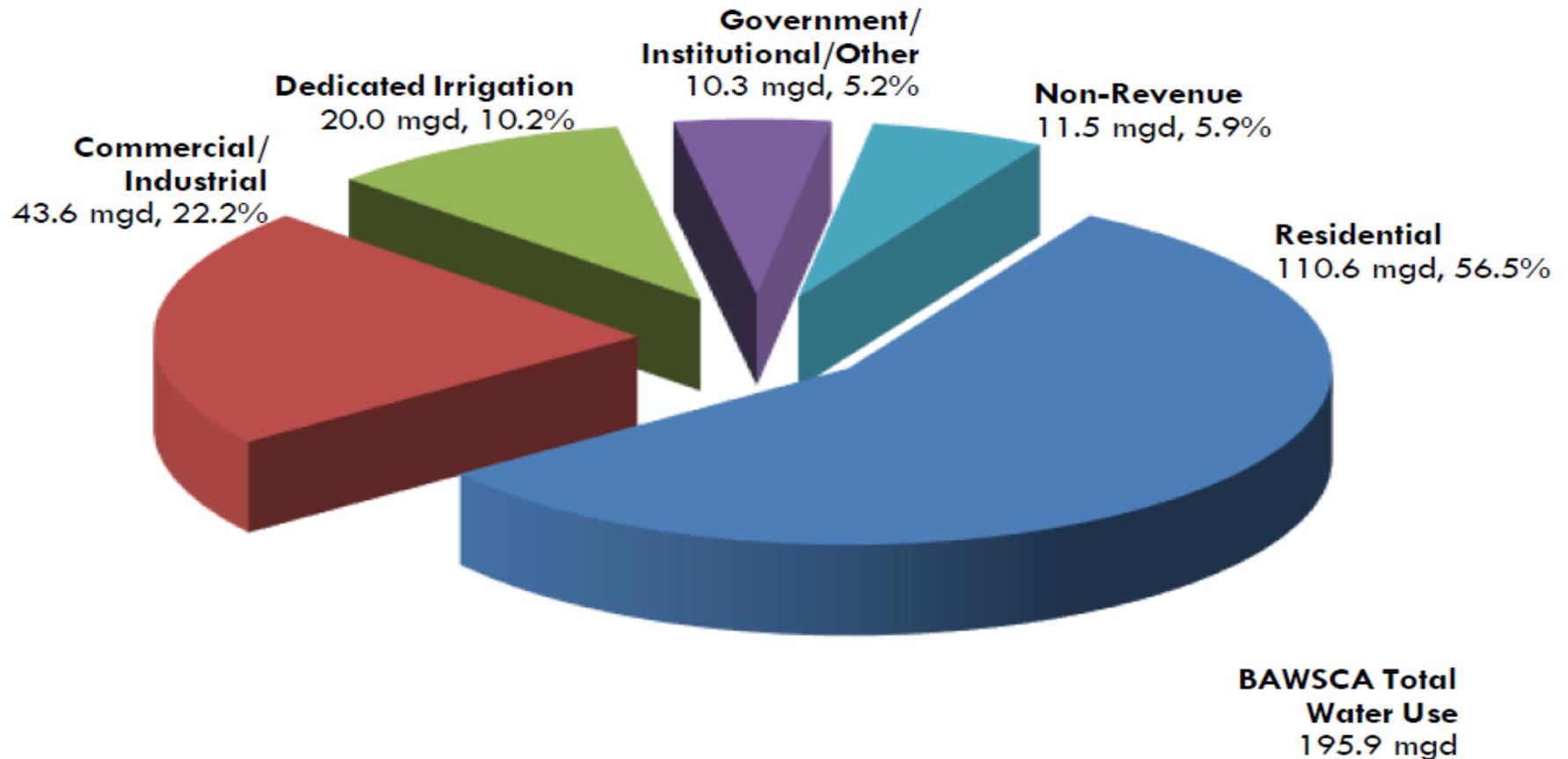
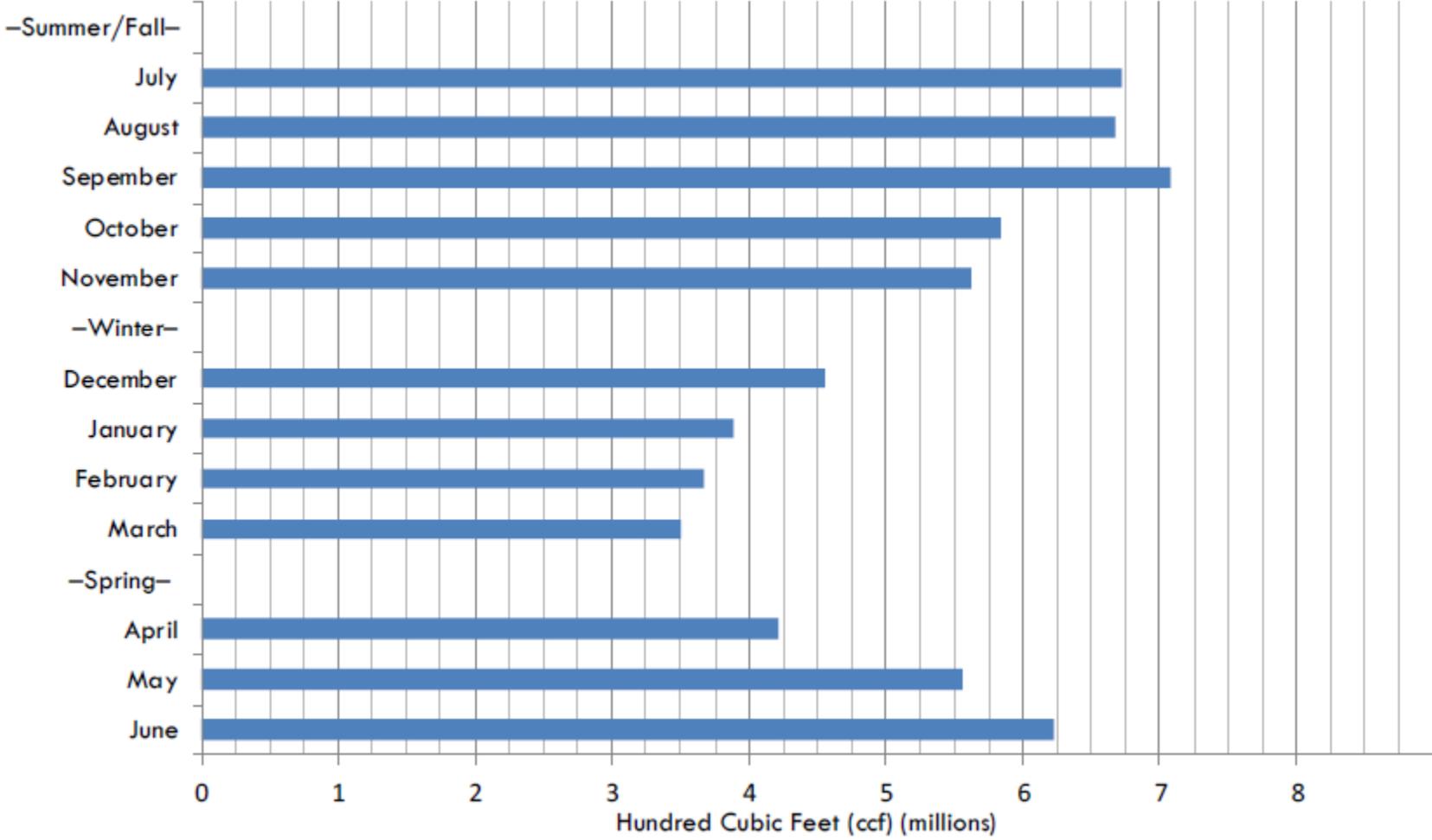
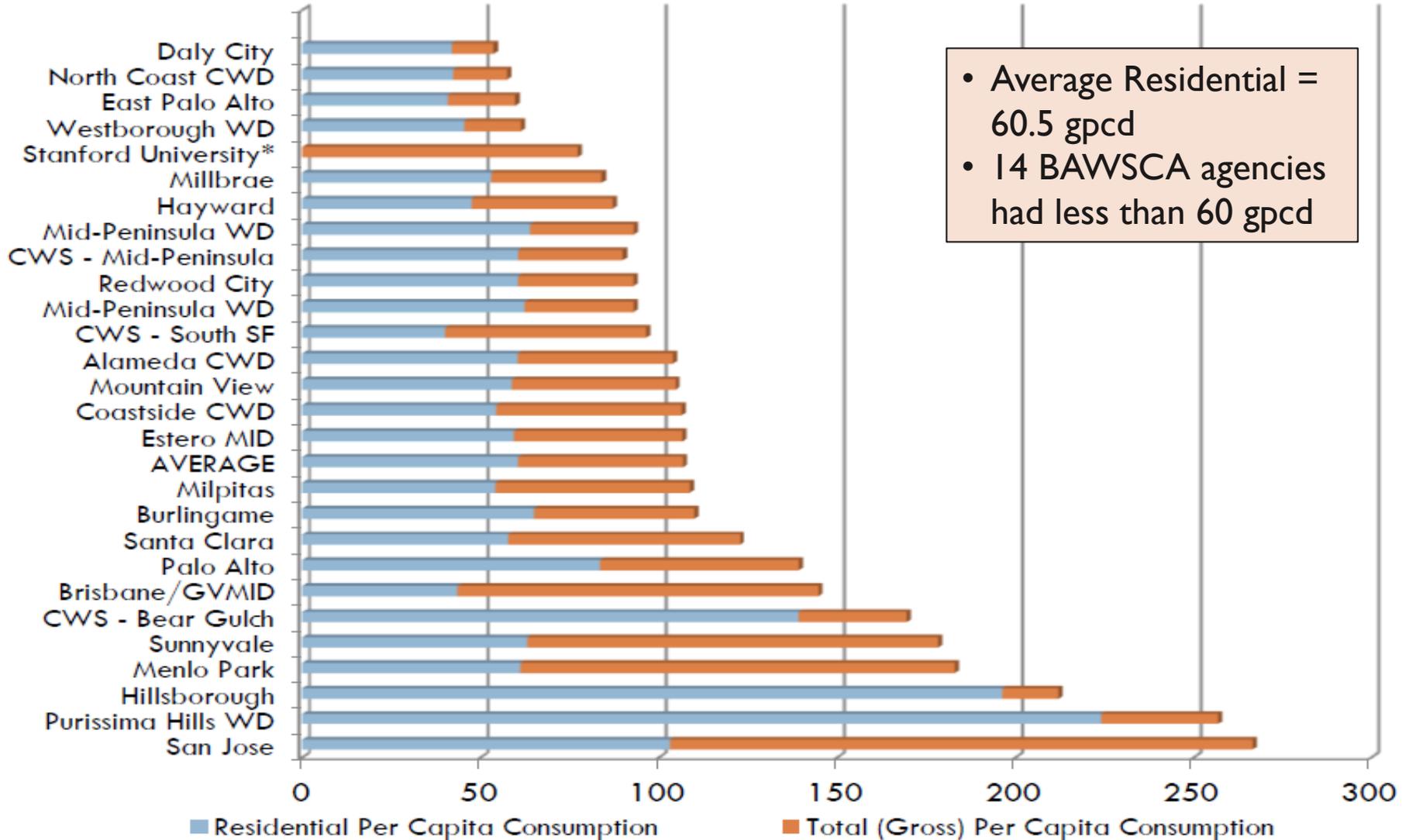


Figure 4B

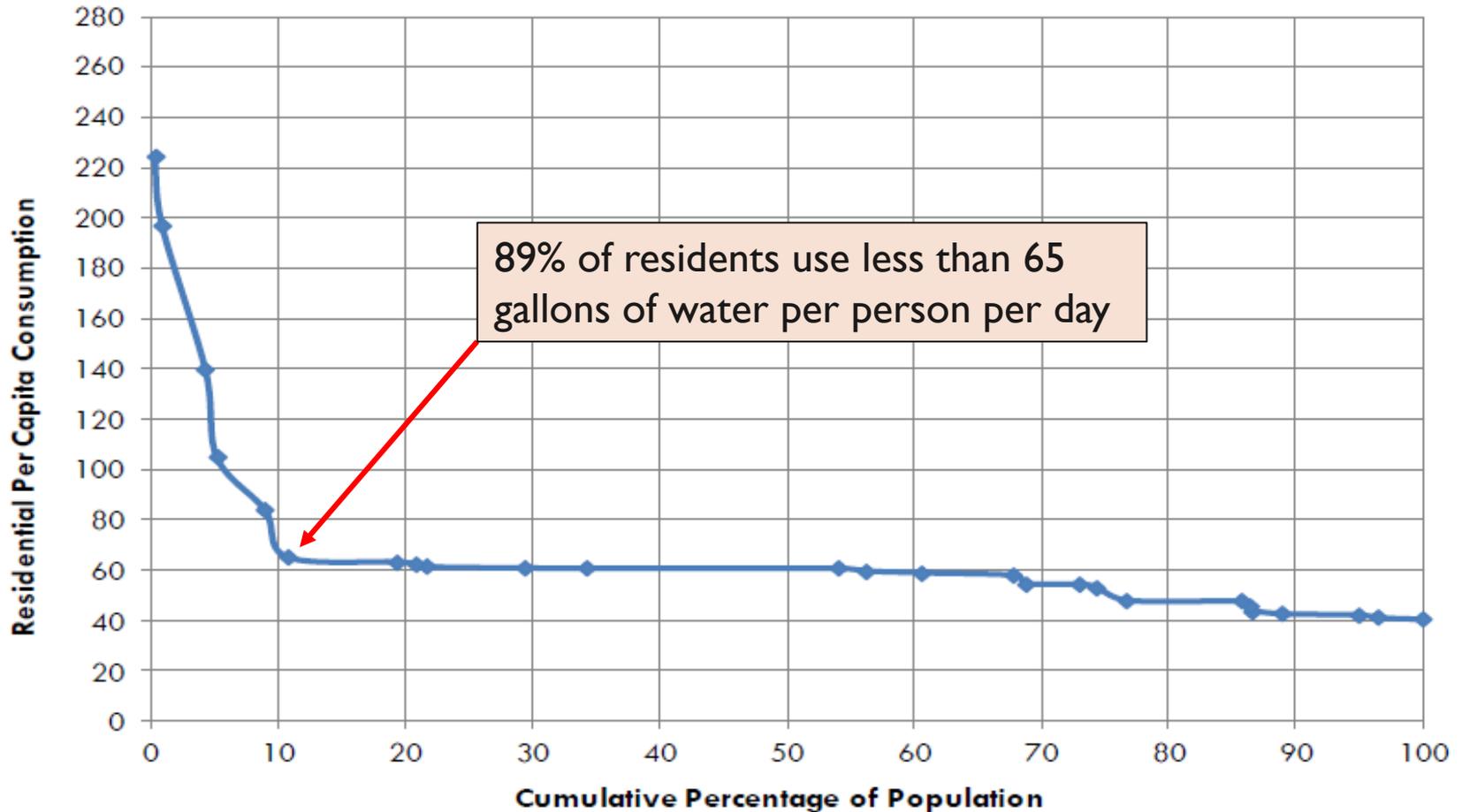
Seasonal (Monthly) Purchases from the SF RWA (FY 2018-19)



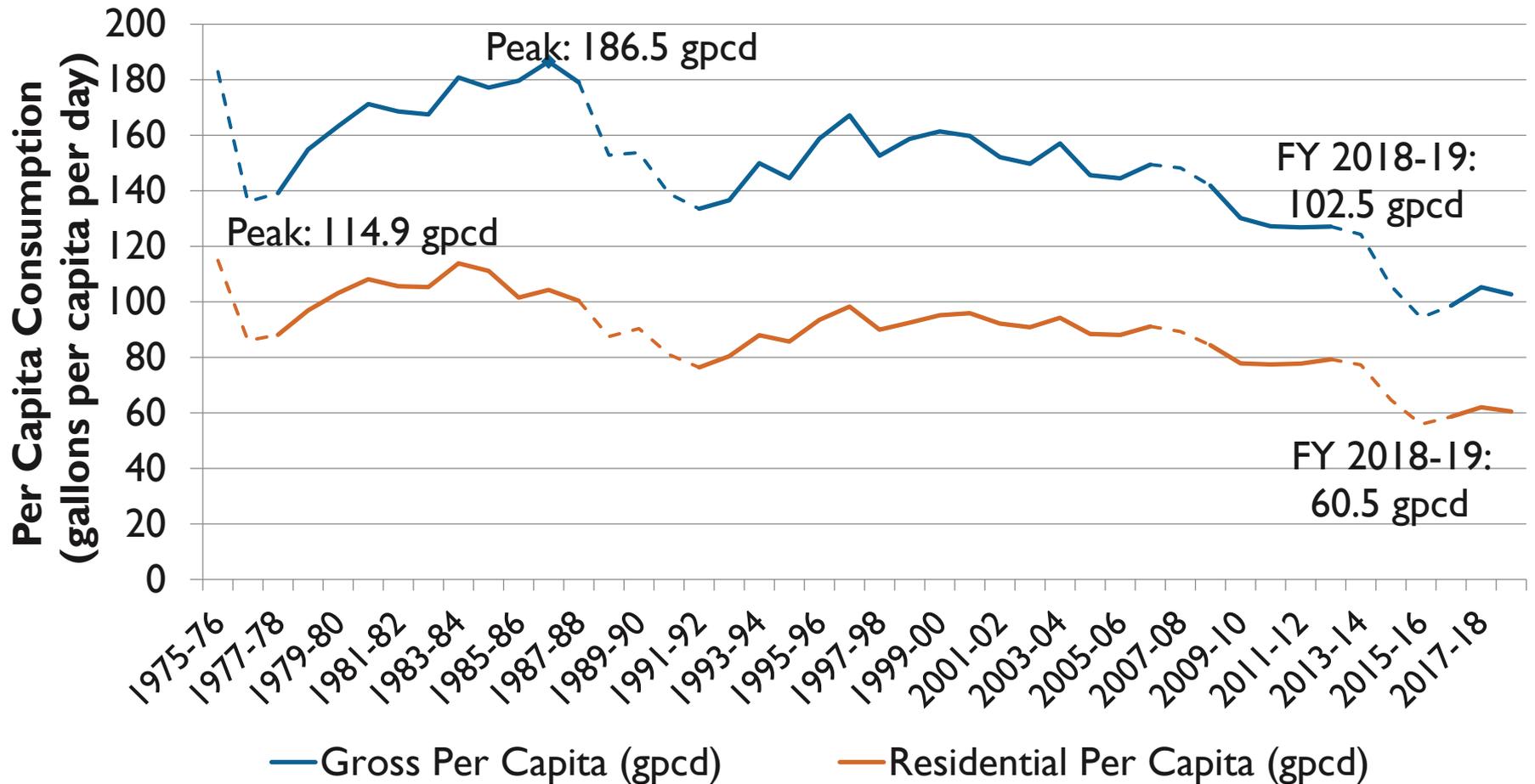
Per Capita Water Consumption (FY 2018-19)



Residential Per Capita Water Consumption in gpcd Distributed by % of Population for FY 2018-19

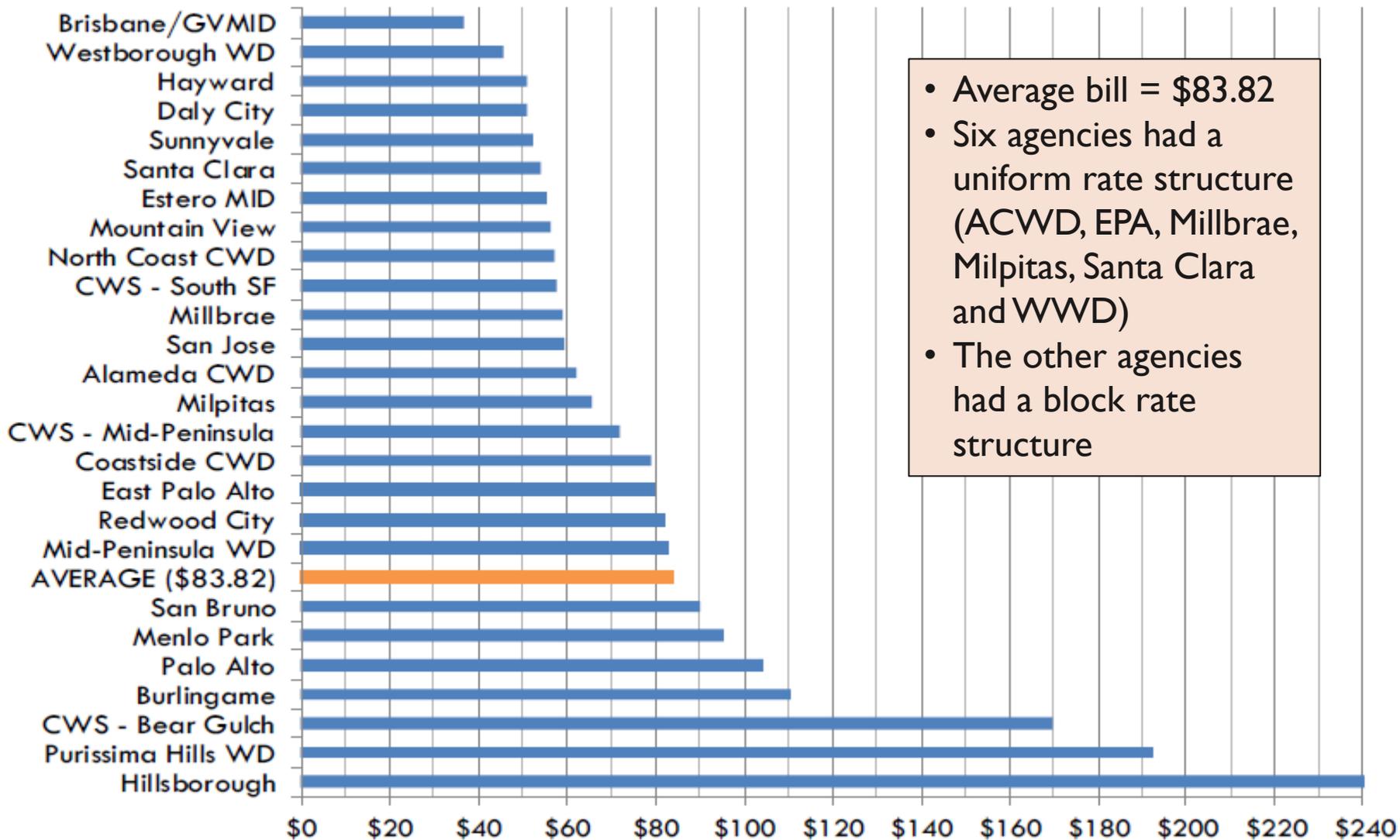


Residential Per Capita Has Decreased by 47% in BAWSCA Region



Dashed line indicates drought year

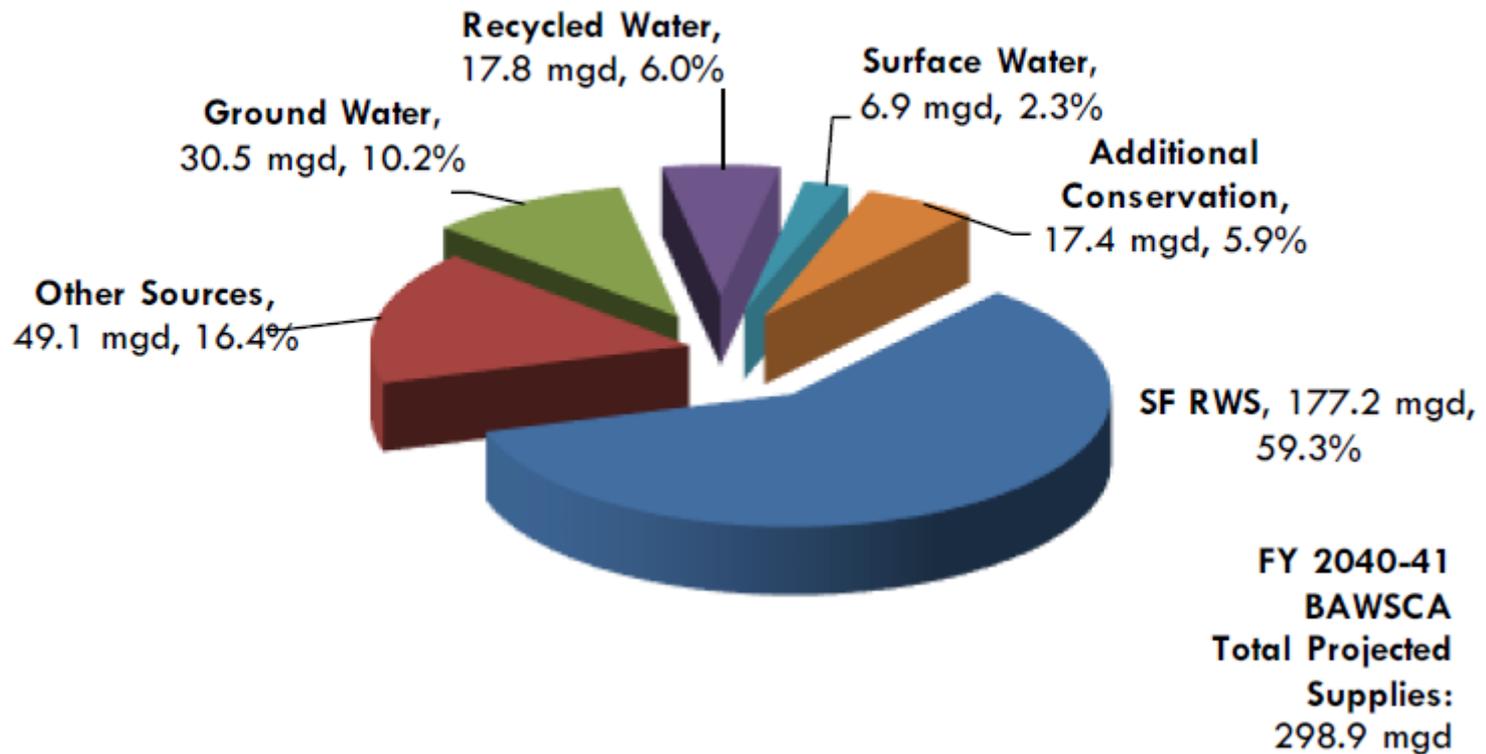
Average Single Family Water Bill (FY 2018-19)



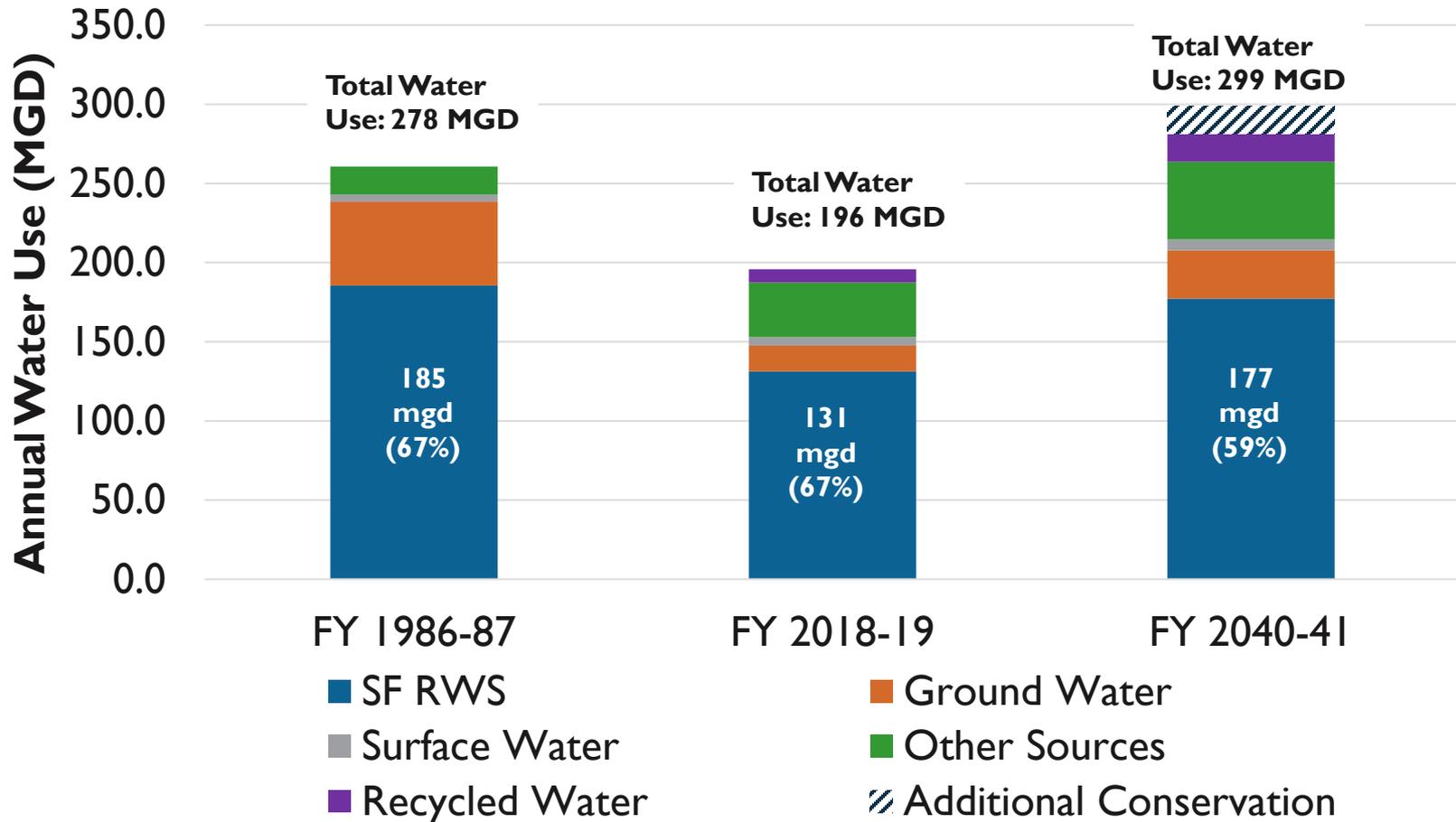
Water Demand Projections by Source Over Time (in mgd)

Source	FY 2020-21	FY 2025-26	FY 2030-31	FY 2035-36	FY 2040-41
SF RWS	155.20	163.82	168.06	172.23	177.24
Groundwater	25.04	26.30	27.21	28.35	30.50
Surface Water	6.86	6.86	6.86	6.86	6.86
Recycled	12.99	14.51	15.66	17.28	17.83
Other	40.47	45.69	47.85	48.46	49.07
Additional Conservation	9.96	11.96	13.81	15.78	17.36
Total	250.52	269.14	279.45	288.96	298.86

FY 2040-41 Water Demand by Source (in mgd)



BAWSCA Agency Investments Are Changing Water Use Patterns in Region



Agency Profiles

Example = City of Burlingame

City of Burlingame

501 Primrose Road

Burlingame, California 94010-3997

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

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

Service Area

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

System

Profile

Area Size	5.5 square miles
Service Population	31,109
Number of Accounts	9,210
Number of SF RWS Connections	6
Connections to SF RWS Mains	Crystal Springs #2 and #3, Sunset Pipeline
Avg. Day Demand (mgd)	3.72
Avg. Day Purchases from SF RWS (mgd)	3.42
% Demand Met with SF RWS Supplies	92%
Maximum Local Water Production (mgd)	0
Alternative Supply Sources	None
Interties with Other Agencies	California Water Service Company (CWS) – City of San Mateo, Town of Hillsborough, City of Millbrae
Local Storage (mg)	2.941
Days of Storage	1.2 days in six out of eight zones on maximum day, the remaining two zones have 0.2 days.

Summary

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

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

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

Agency Profiles Continued

Example = City of
Burlingame

Water Supply and Demand

Supply by Source	Actual FY 15-16 (ccf)	Actual FY 16-17 (ccf)	Actual FY 17-18 (ccf)	Actual FY 18-19 (ccf)
San Francisco Water	1,505,779	1,592,044	1,695,956	1,669,182
Recycled Water	146,388	146,400	146,400	146,400
Other	0	0	0	0
Total	1,652,167	1,738,444	1,842,356	1,815,582
mgd equivalent	3.39	3.56	3.78	3.72

Demand by Sector

Residential	855,442	915,404	1,002,137	985,397
Commercial/Industrial	457,266	433,018	471,718	464,483
Other	35,083	39,480	48,409	50,398
Dedicated Irrigation	55,755	213,269	240,638	230,919
Non-Revenue Water	55,755	137,273	79,454	84,385
Total	1,652,167	1,738,444	1,842,356	1,815,582
mgd equivalent	3.39	3.56	3.78	3.72

Per Capita Use	Actual FY 15-16 (gpcpd)	Actual FY 16-17 (gpcpd)	Actual FY 17-18 (gpcpd)	Actual FY 18-19 (gpcpd)
Residential	56	60	66	65
Gross	99	105	112	99

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

Document's Website Location

BAWSCA Annual Survey for FY 2018-19

- Website link = <https://bawasca.org/water/supply/survey>
- Quick link = click this image located to the bottom left on the BAWSCA.org home page



Annual Survey



For FY 2018-19, total water demand in the BAWSCA service area from all sources was 195.9 million gallons per day (mgd). Average residential per capita water use was 60.5 gallons per capita per day.

Questions?



L. Ash, 2017