



BAWSCA Service Area

“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)]*

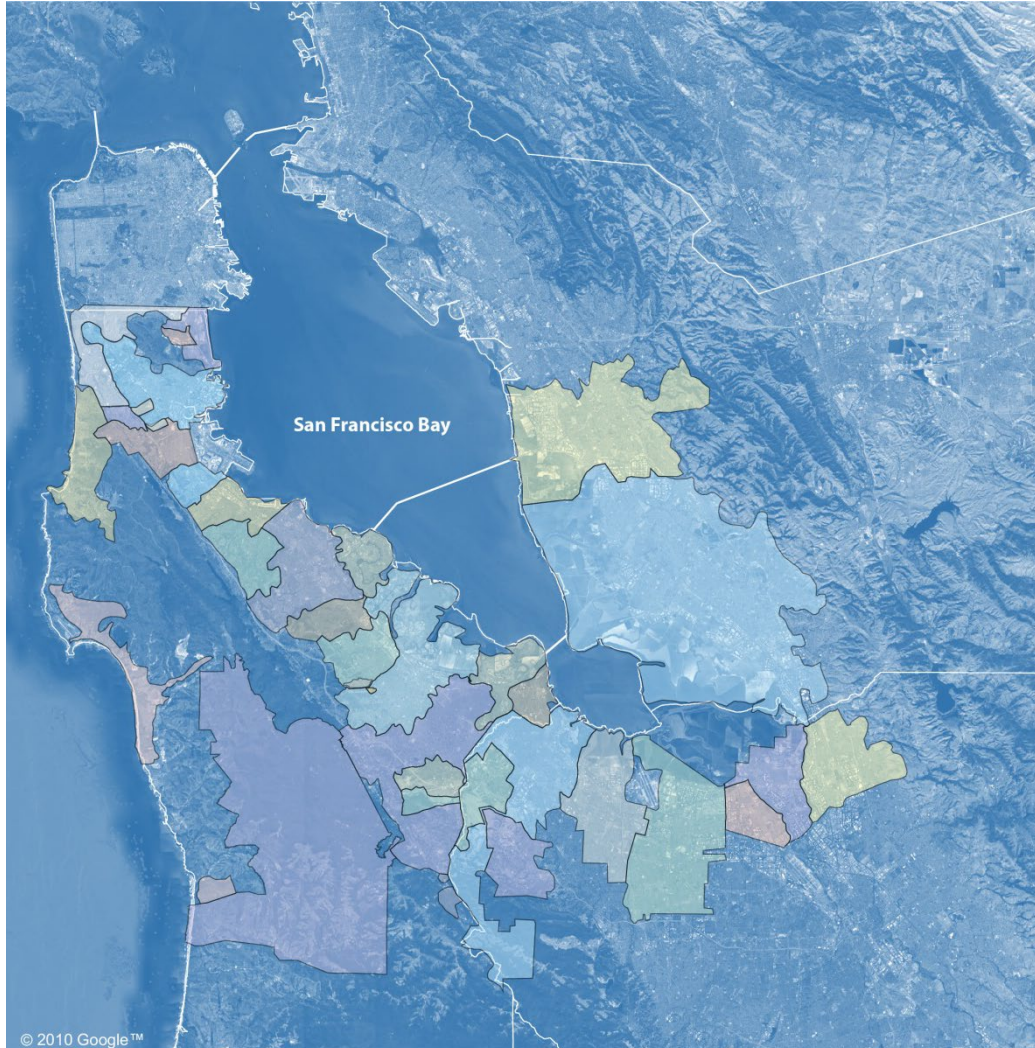
## **BAWSCA Water Conservation 2022**

# Agenda

- Introduction
- Water System Overview
- Water Supply
- Ways To Conserve
- BAWSCA Rebate & Incentive Programs



# BAWSCA: Bay Area Water Supply & Conservation Agency



Special District  
representing the interests  
of

- 26 water suppliers in San Mateo, Santa Clara, and Alameda Counties
- 1.7 million residents and over 39,000 businesses
- All rely on the San Francisco Regional Water System

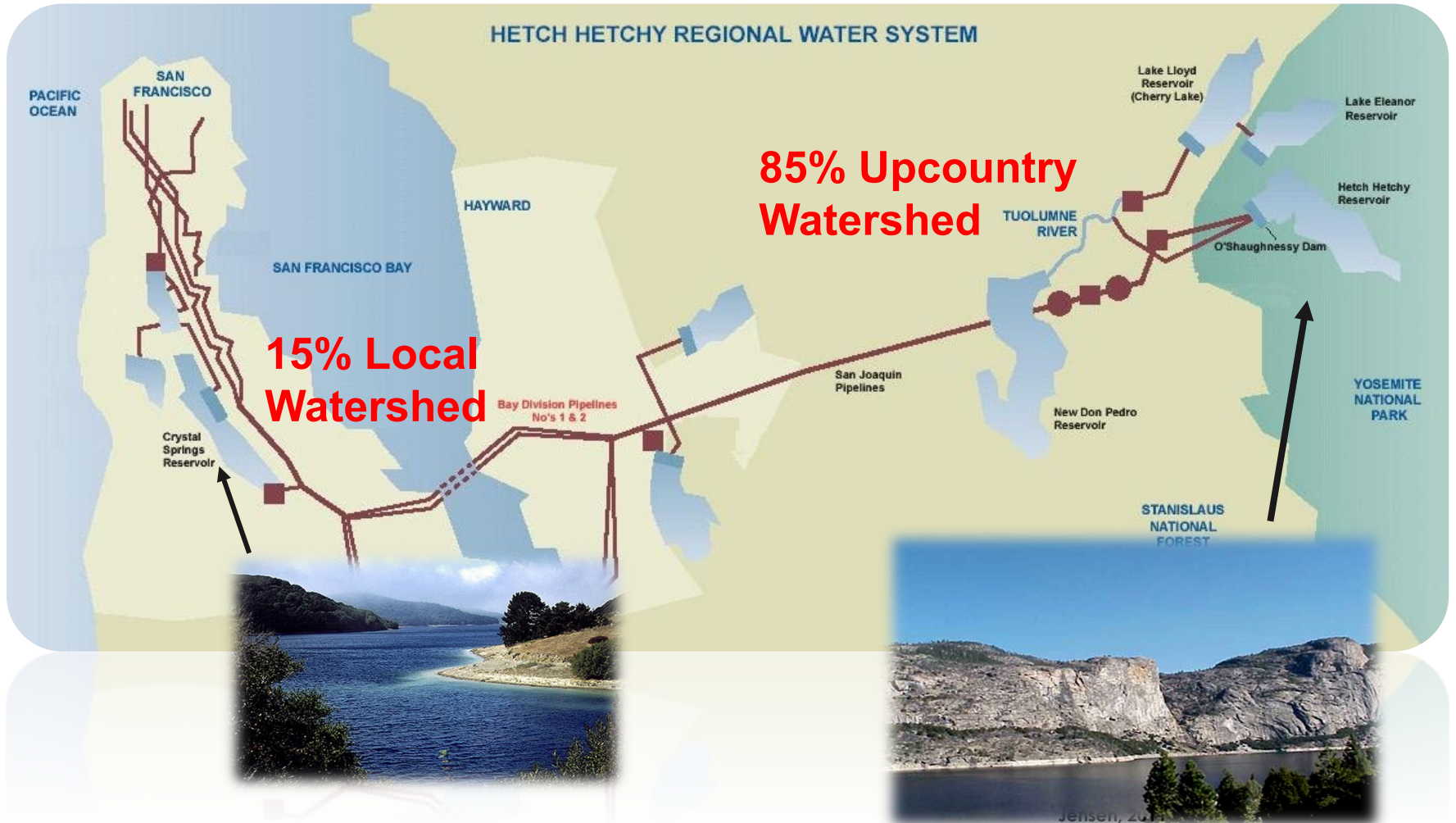
# Member Agencies



## Legend

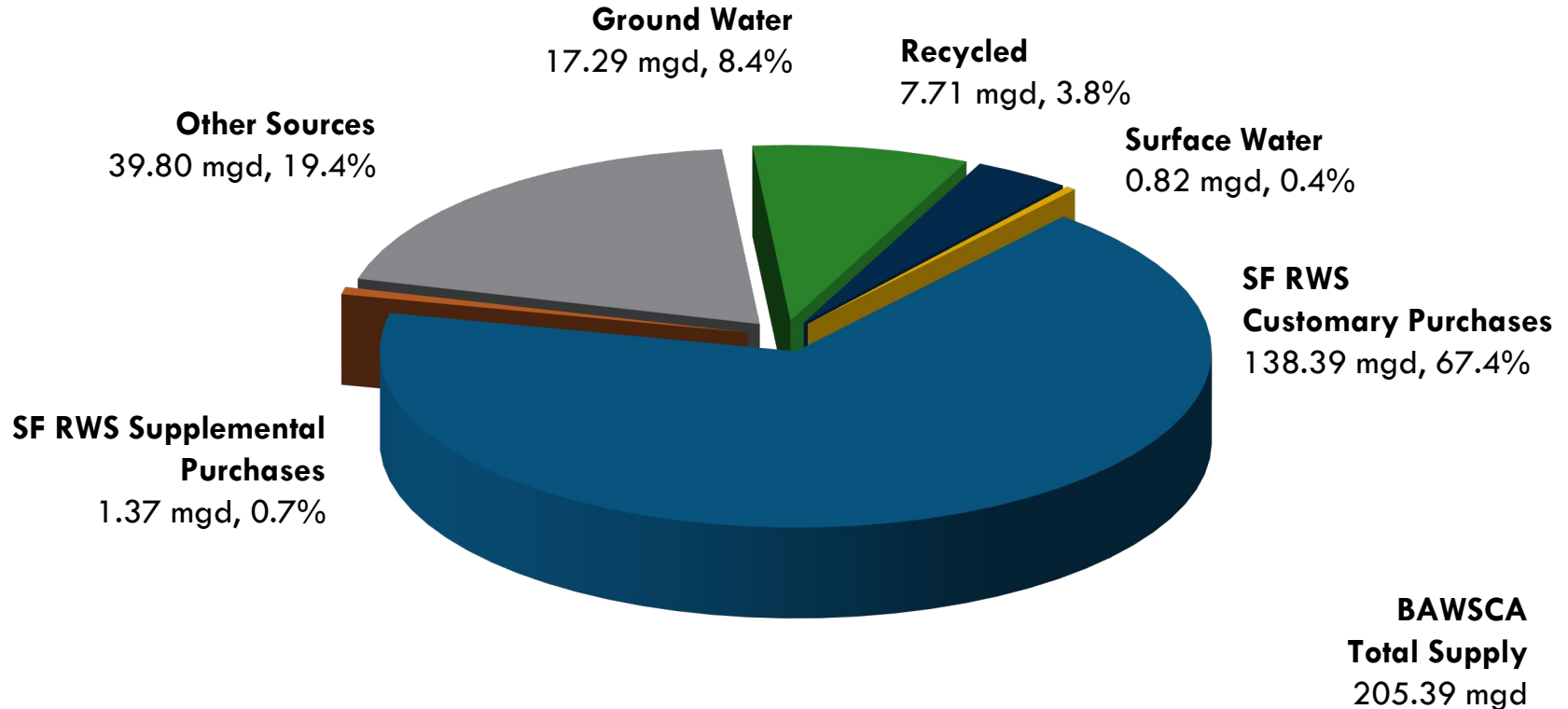
- 1 Alameda County Water District
- 2 City of Brisbane
- 3 City of Burlingame
- 4a CWS – Bear Gulch
- 4b CWS – Mid-Peninsula
- 4c CWS – South San Francisco
- 5 Coastside County Water District
- 6 City of Daly City
- 7 City of East Palo Alto
- 8 Estero Municipal Improvement District
- 9 Guadalupe Valley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

# BAWSCA Agencies Served by the SF Regional Water System

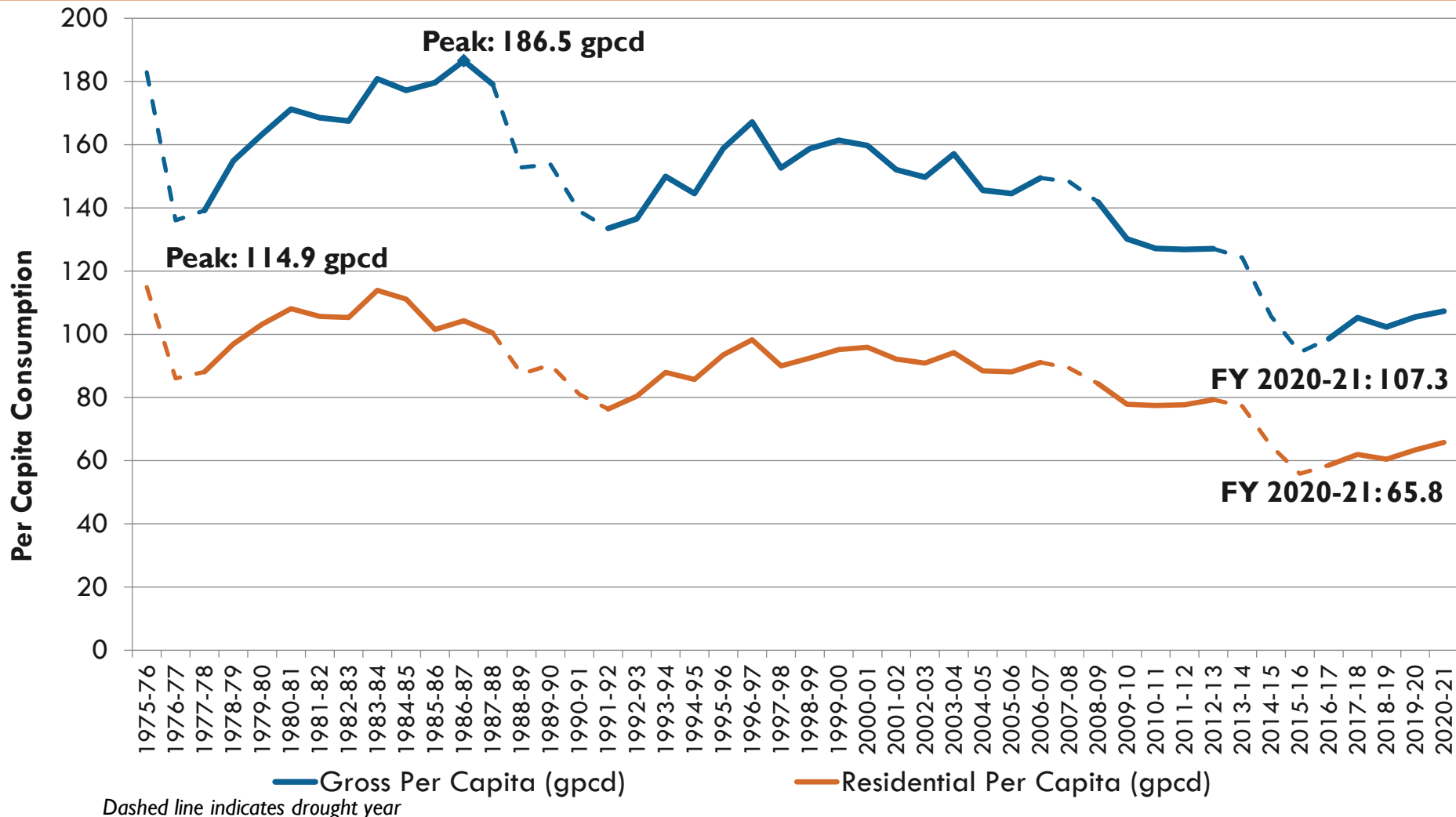


# Communities Outside SF Rely on the System

BAWSCA agencies rely on the SF Regional Water System for two-thirds of their total water supplies



# Per Person Water Use in BAWSCA Service Area



# Water Supply



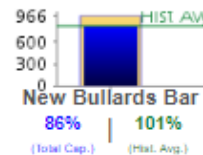
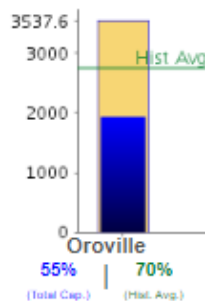
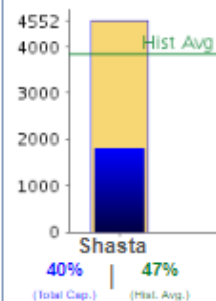


# Current Reservoir Storage

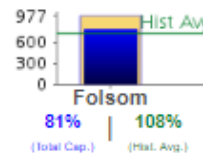
Reservoir	Current Storage <sup>1,2,3</sup> (AF)	Maximum Storage <sup>4</sup> (AF)	Available Capacity (AF)	Percent of Maximum Storage	Normal Percent of Maximum Storage <sup>5</sup>
<u>Tuolumne System</u>					
Hetch Hetchy	298,200	360,360	62,160	82.8%	<b>61.1%</b>
Cherry	235,900	268,800	32,900	87.8%	-
Eleanor	23,970	21,495	0	100.0%	-
Water Bank	343,041	570,000	226,959	60.2%	<b>99.8%</b>
<b>Total Tuolumne Storage</b>	<b>901,111</b>	<b>1,220,655</b>	<b>322,019</b>	<b>73.8%</b>	-
<u>Local System</u>					
Calaveras	64,460	96,670	32,210	66.7%	-
San Antonio	38,563	53,266	14,703	72.4%	-
Crystal Springs	44,959	58,309	13,350	77.1%	-
San Andreas	15,541	19,027	3,486	81.7%	-
Pilarcitos	2,786	3,030	244	91.9%	-
<b>Total Local Storage</b>	<b>166,309</b>	<b>230,302</b>	<b>63,993</b>	<b>72.2%</b>	-
<b>Total System Storage</b>	<b>1,067,420</b>	<b>1,450,957</b>	<b>386,012</b>	<b>73.6%</b>	<b>81.6%</b>
<b>Total without water bank</b>	<b>724,379</b>	<b>880,957</b>	<b>159,053</b>	<b>82.2%</b>	-

# Other California Reservoirs

Data as of Midnight: 04-May-2022



Change Date: 04-May-2022

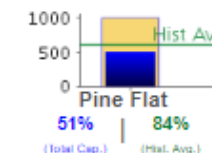
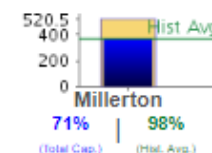
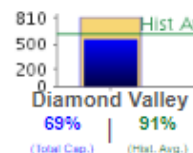
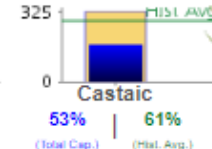
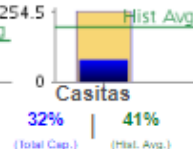
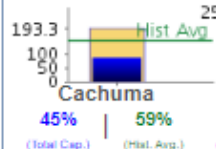
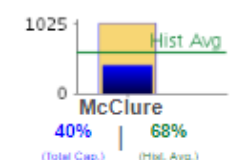
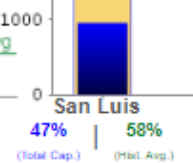
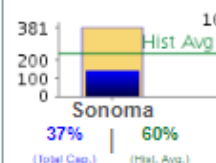
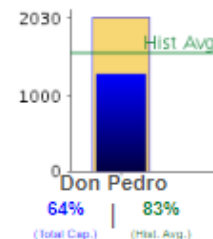
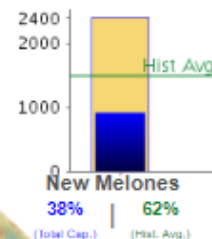
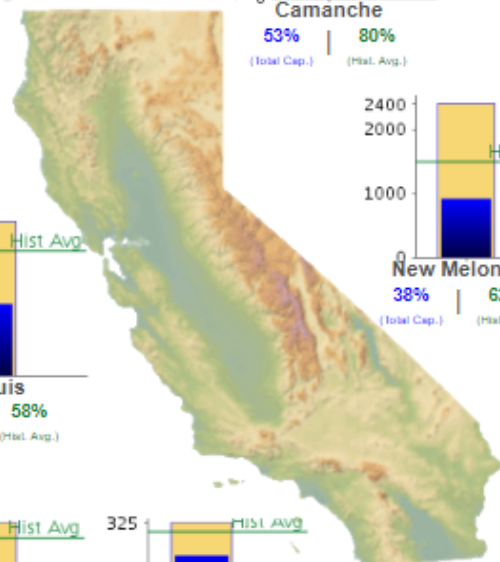
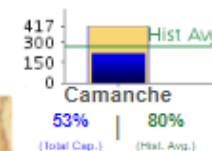
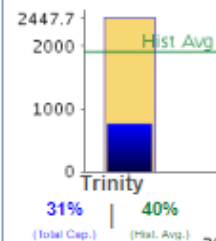


**LEGEND**

- Blue Bar: Storage level for date
- Gold Bar: Total reservoir capacity
- Green Line: Historic level for date.

Capacity (TAF) | Historical Avg Mark

% of Capacity | % Hist. Avg.  
(Click res. 3 char. code for details)

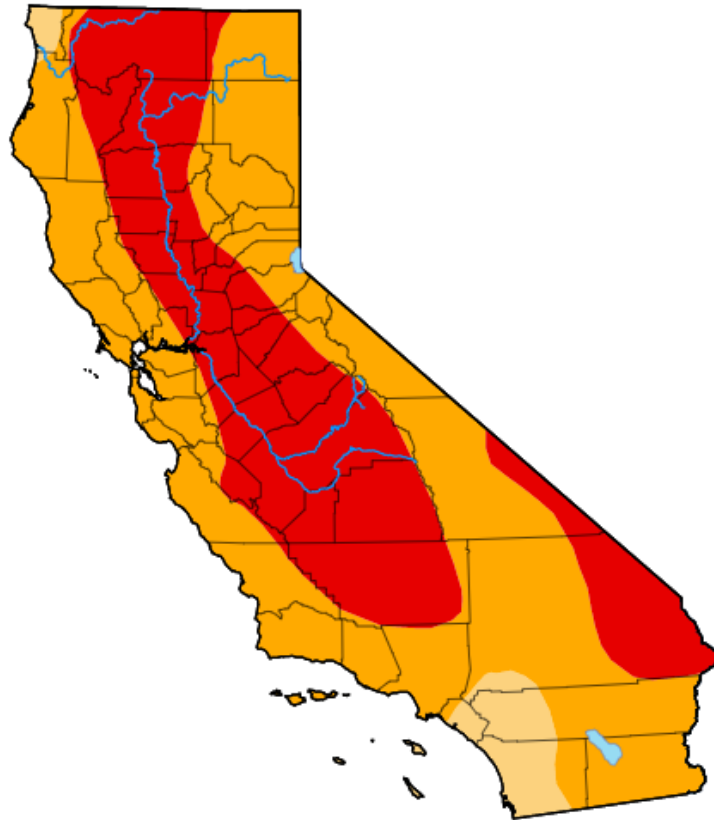


Click for printable version of current data.

The CSI link has been disabled to zoom in, for the lack of historical data.

Report Generated: 05-May-2022 9:31 AM

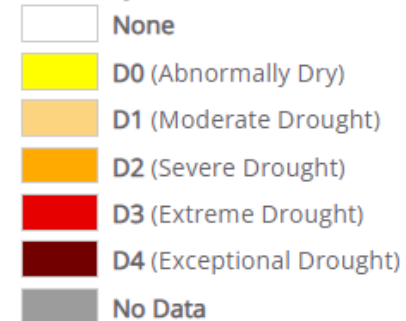
# California Drought Monitor



**Map released: Thurs. May 5, 2022**

**Data valid: May 3, 2022 at 8 a.m. EDT**

## Intensity



## Authors

**United States and Puerto Rico Author(s):**

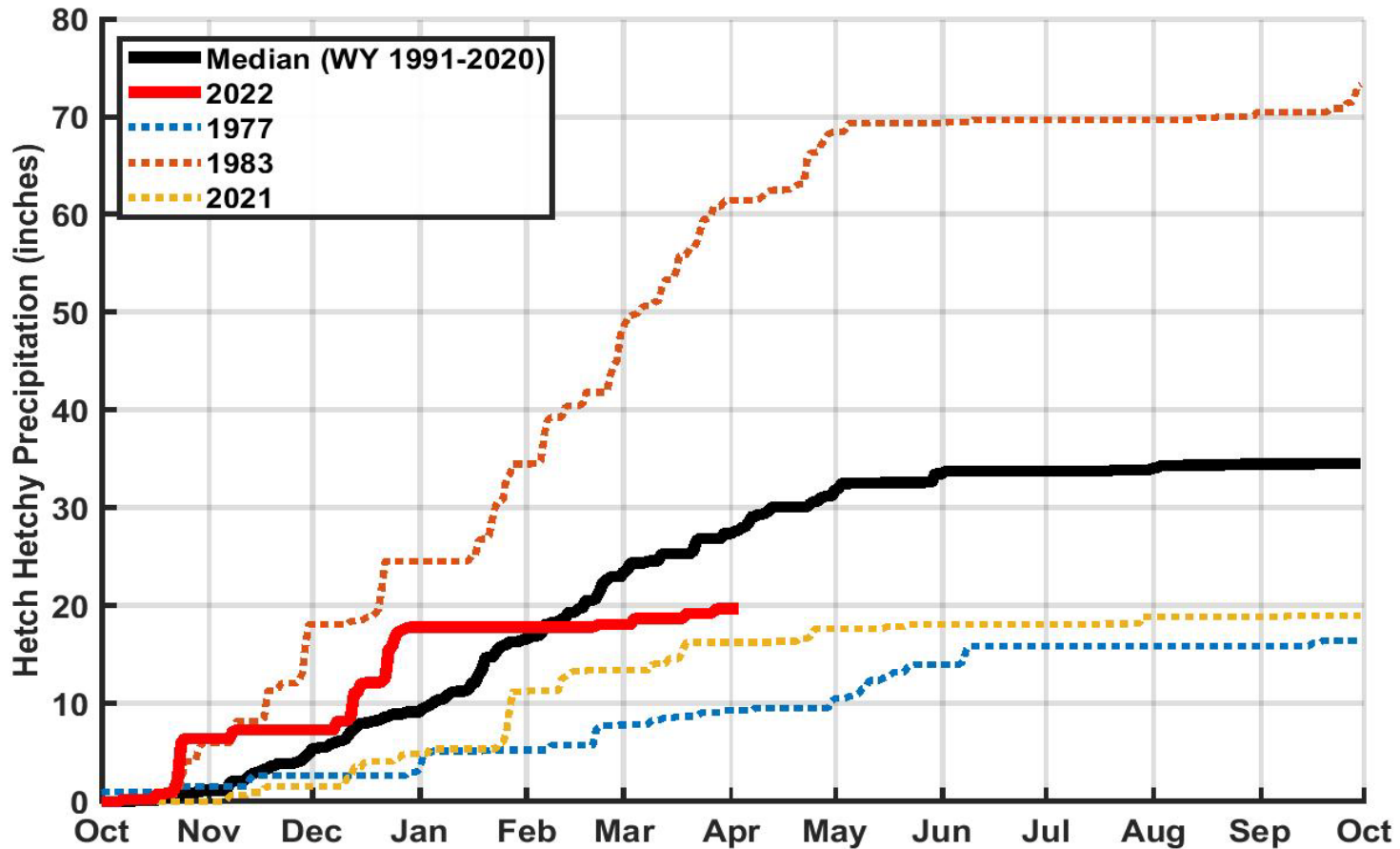
**David Simeral**, Western Regional Climate Center

**Pacific Islands and Virgin Islands Author(s):**

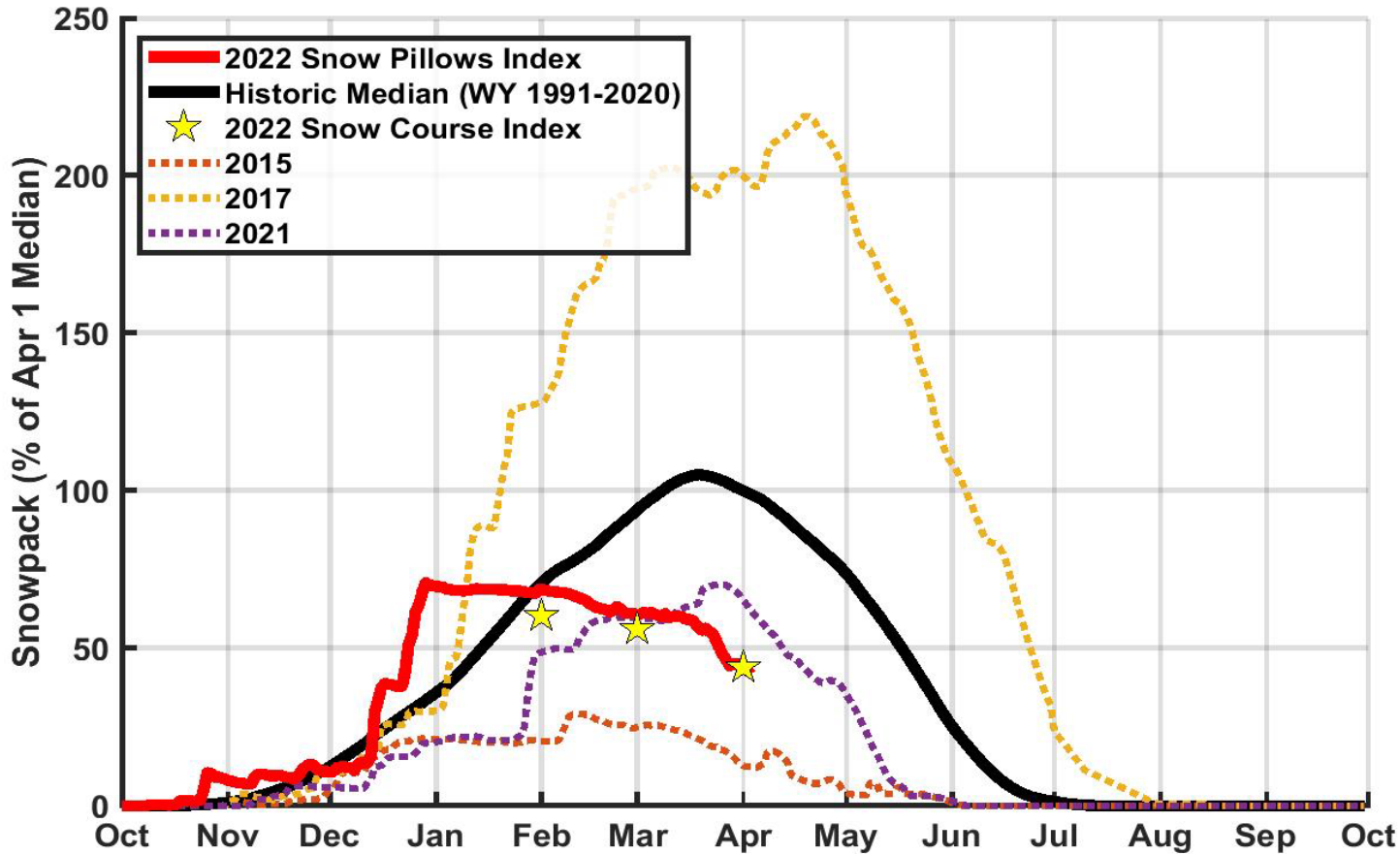
**Curtis Riganti**, National Drought Mitigation Center

*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying **text summary** for forecast statements.*

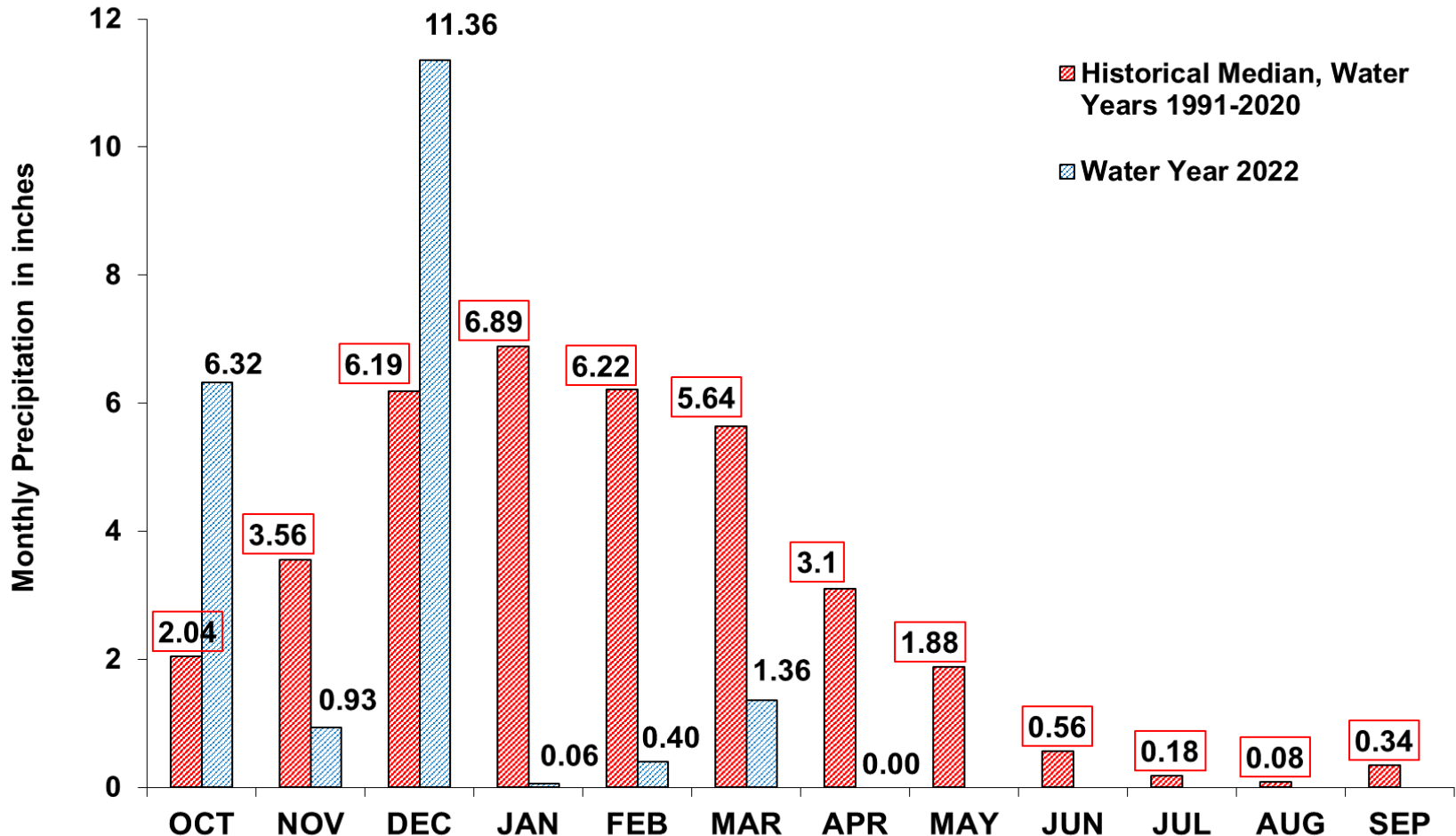
# Hetch Hetchy Precipitation



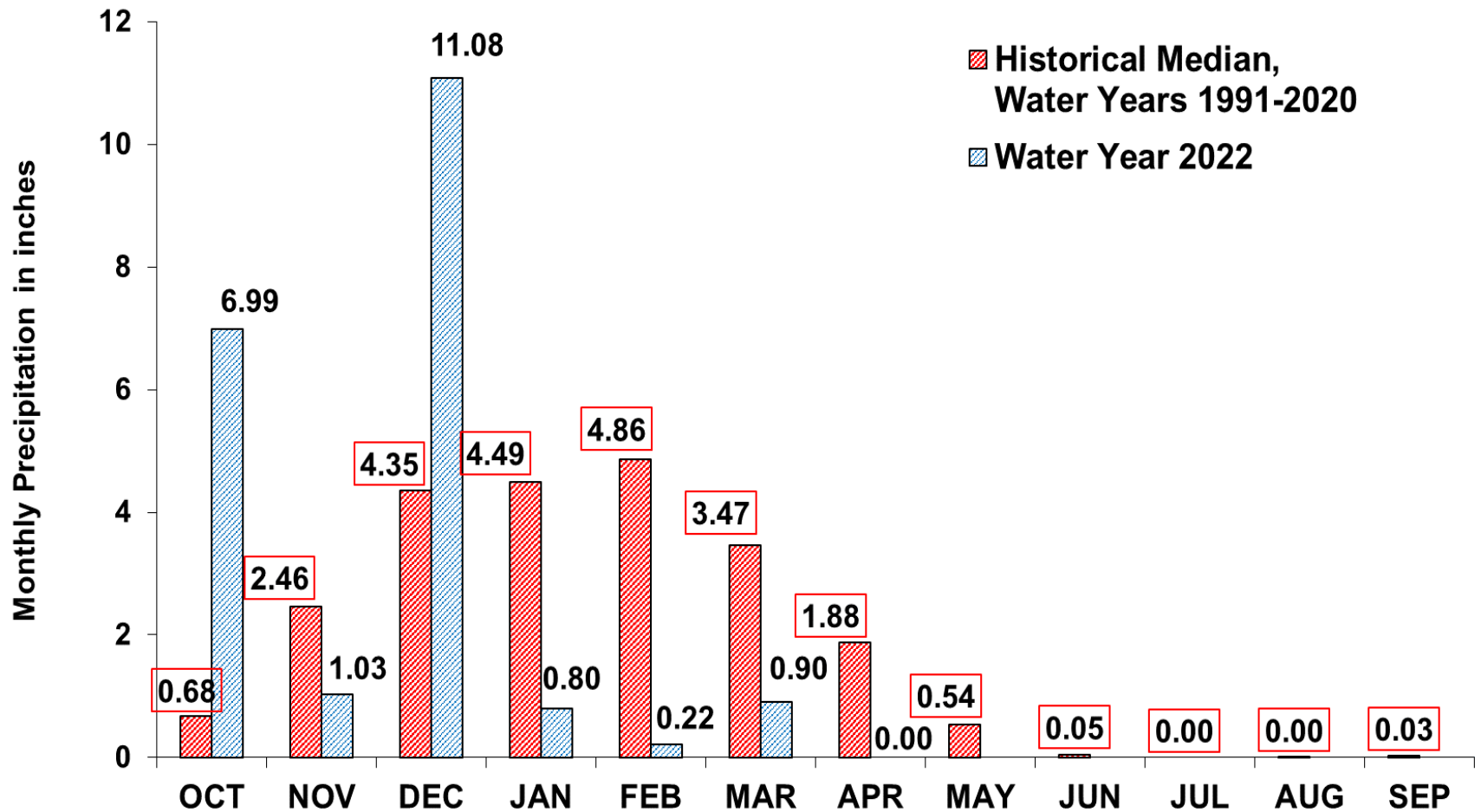
# Upcountry Snowpack



# Upcountry 6-Station Precipitation Index as of April 3, 2022



# Bay Area 7-Station Precipitation Index as of April 3, 2022

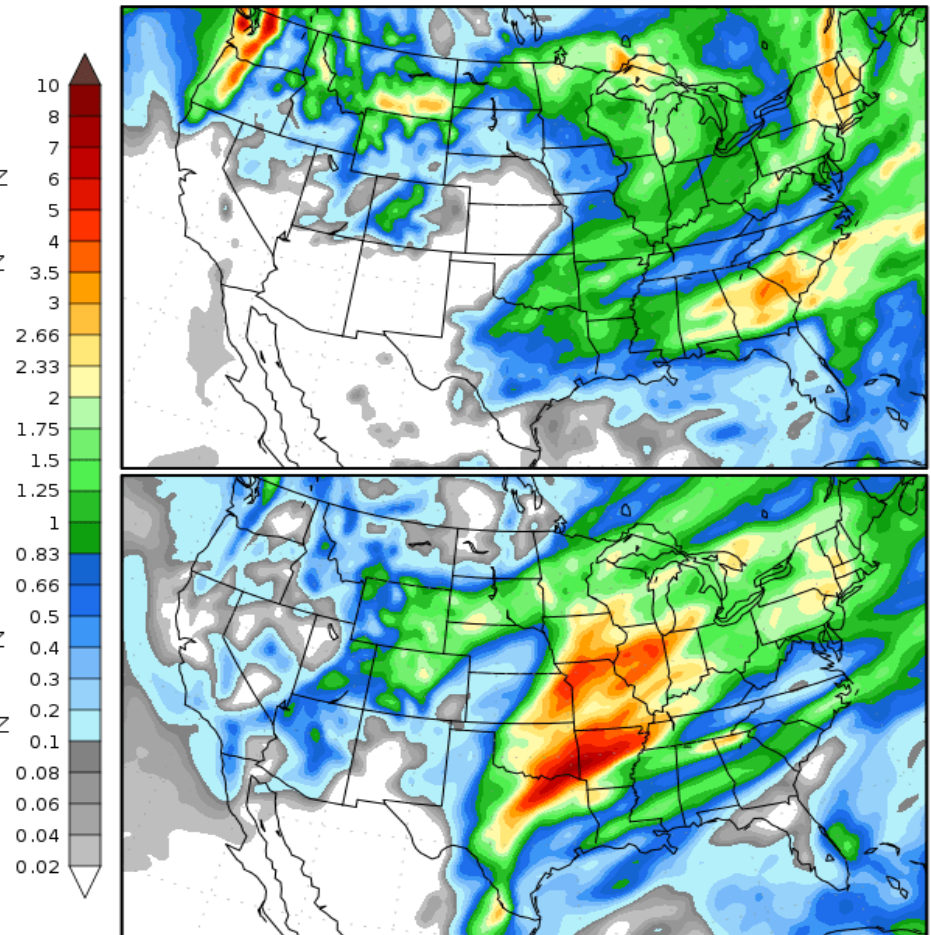


# National Precipitation Forecast

Precipitation (in)  
during the period:

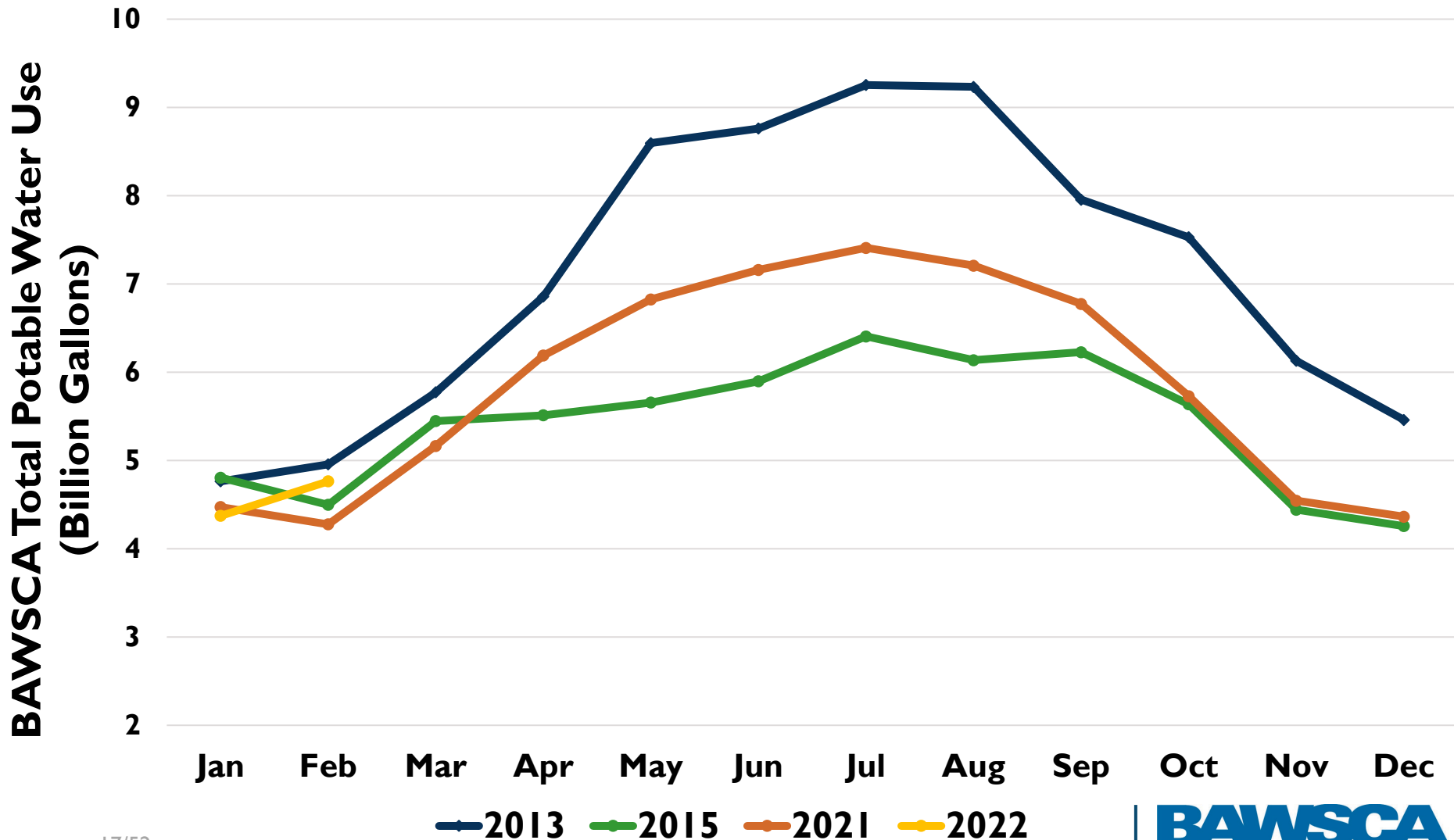
Mon, 04 APR 2022 at 00Z  
-to-  
Tue, 12 APR 2022 at 00Z

Tue, 12 APR 2022 at 00Z  
-to-  
Wed, 20 APR 2022 at 00Z

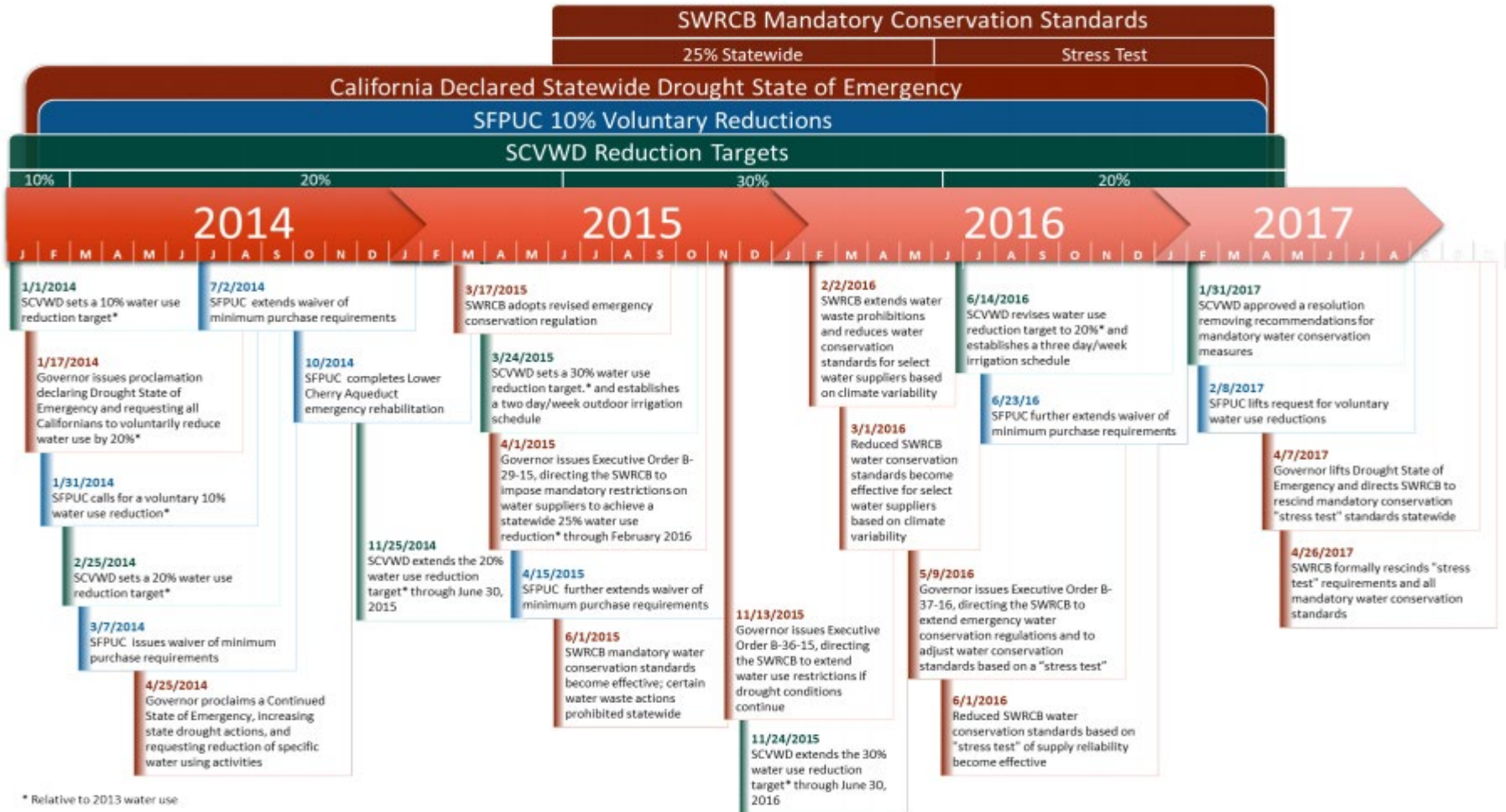




# BAWSCA February 2022 Total Potable Water Use 4% Less Than February 2013



# Timeline of State & Local Drought Actions (2014-2017)

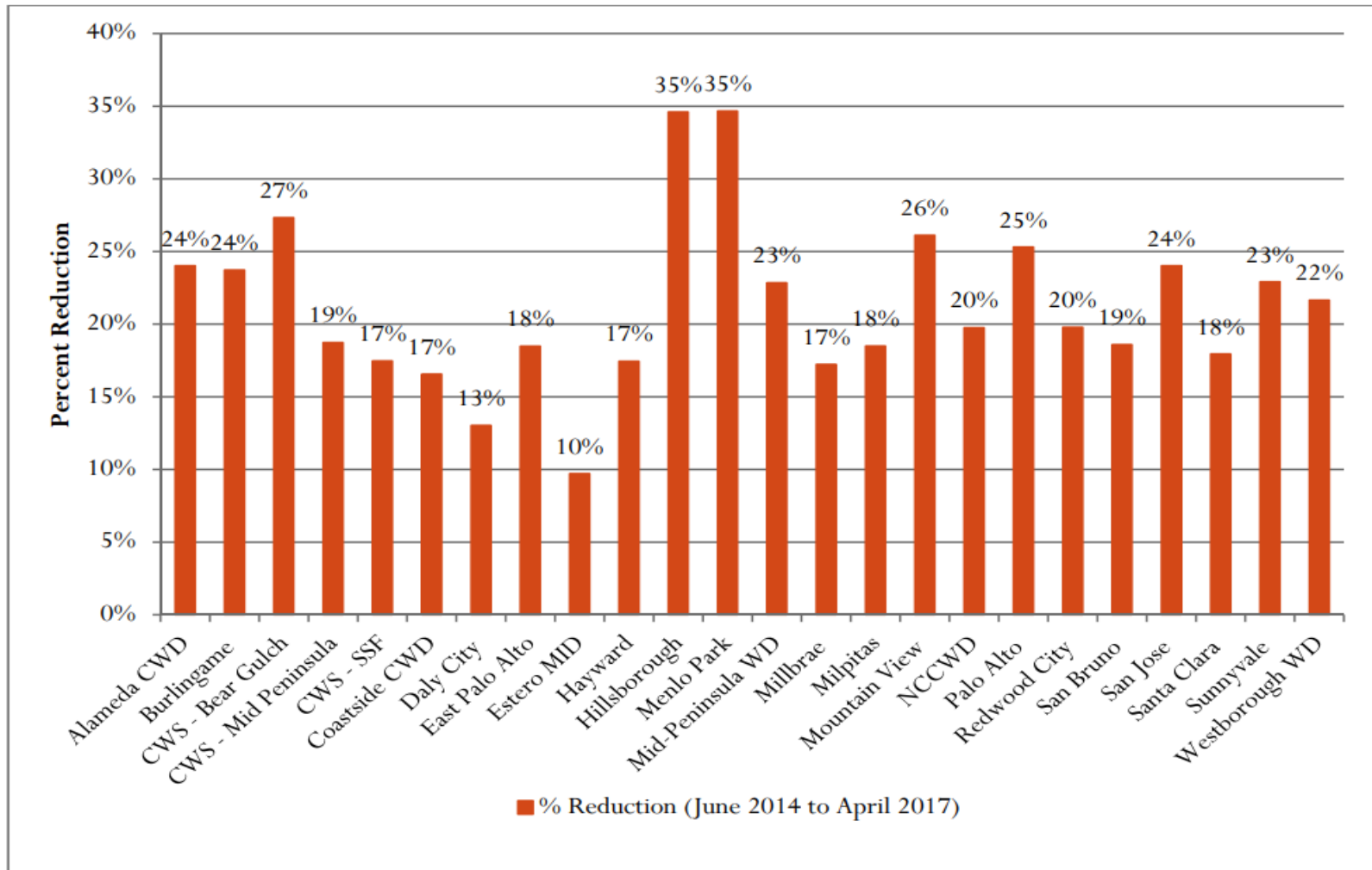


# BAWSCA Drought Response Actions

- Communication & Outreach
  - Regional Drought Messaging Campaign w/ SFPUC
- Drought messaging bulk purchase program
- Water Conservation 101 Workshops
- Regional Outdoor Watering Schedule
- New Water Conservation Programs
- Tier 1 & Tier 2 Plan Evaluations for future droughts



# Reductions Achieved (2014-2017)

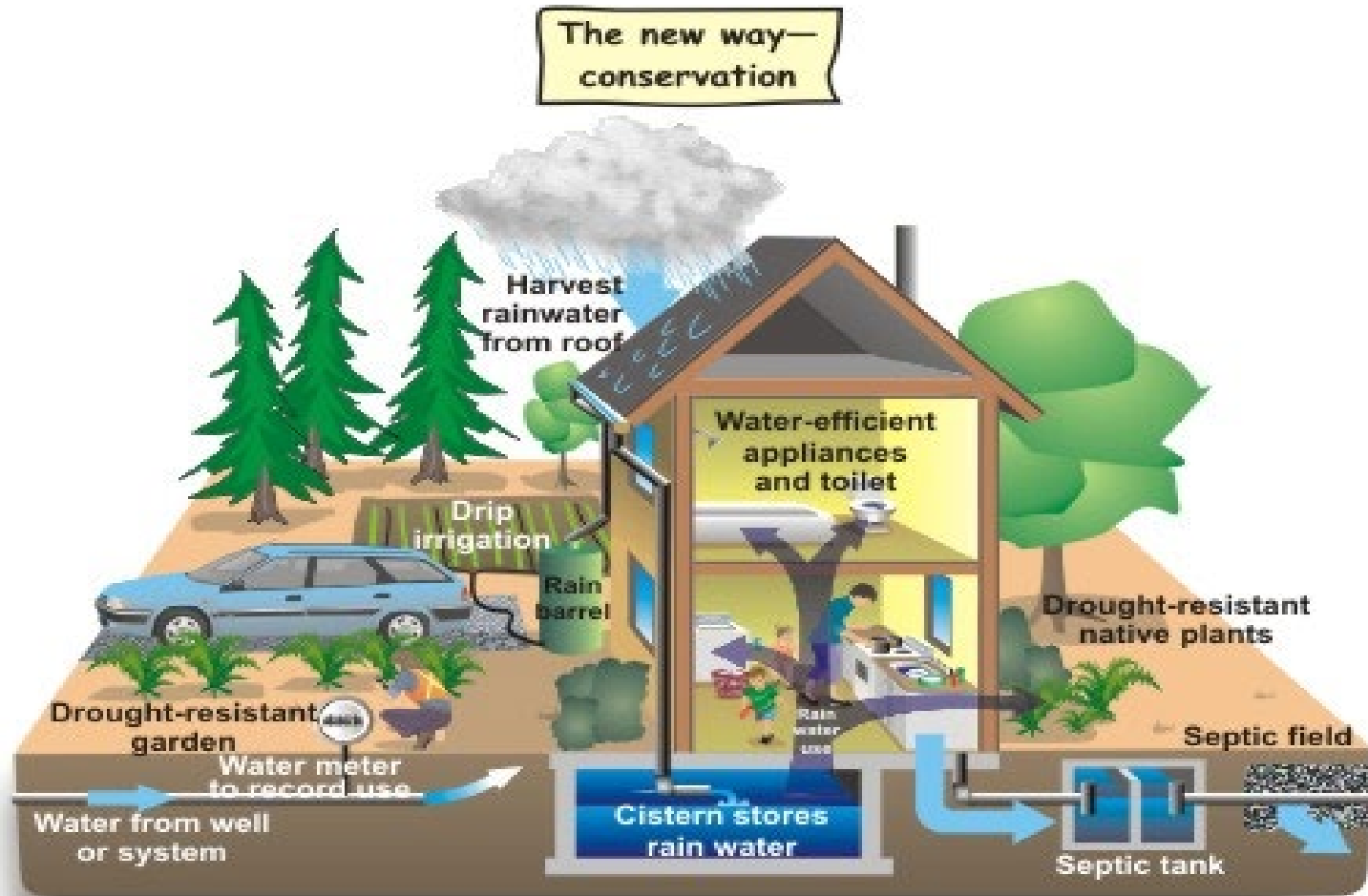


# Lessons Learned – Preparing for the Next Drought

- Regional drought messaging is among the most valuable drought response actions.
  - Includes joint messaging with SFPUC
- Increasing rebate amounts creates further incentive for participation
- Several BAWSCA agencies have historically low per capita use
  - This makes it challenging to implement significant rationing requirements during next drought
- Reduced water sales can cause revenue shortfalls for water agencies
  - Further focus needed on the financial impacts of drought

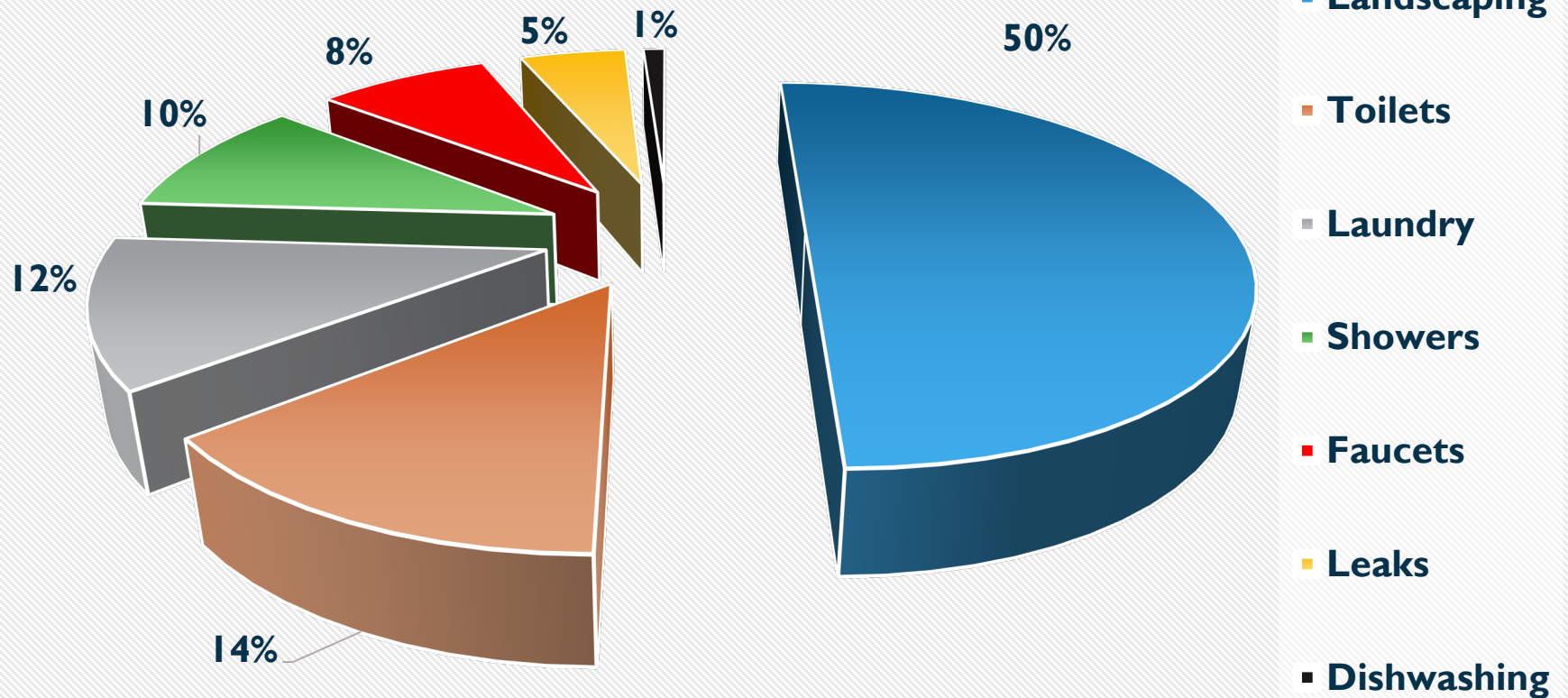


# Ways To Conserve



# Biggest Water Users in the Home

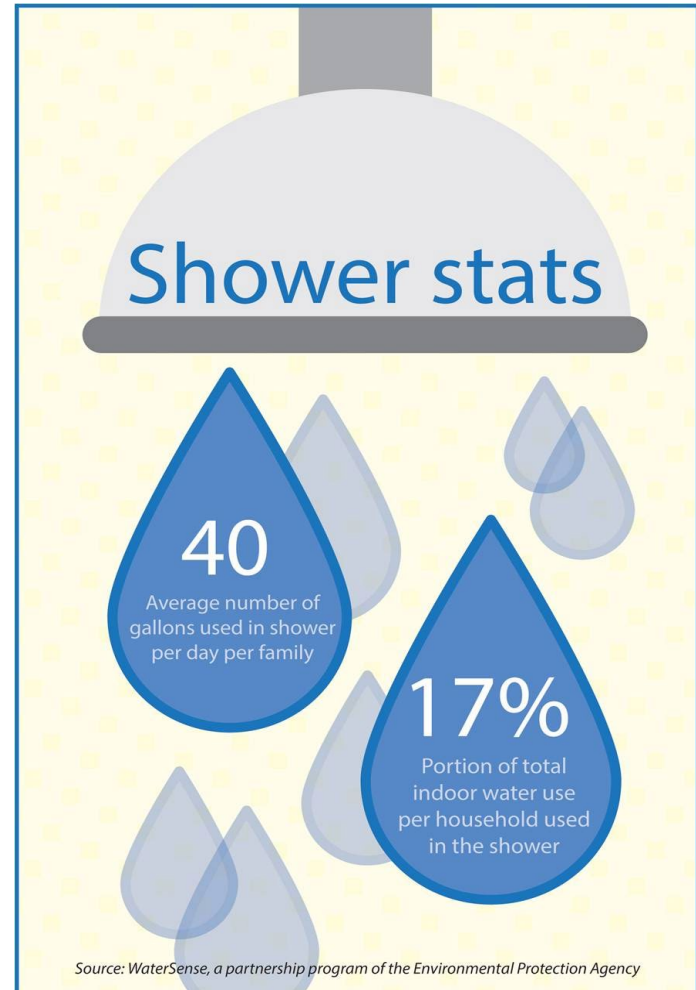
## Average U.S. Single Family Residential Water Use



Source: 2012, Mammoth County Water District

# Opportunities Indoors at Home

- Install low flow showerheads
- Install faucet aerators
- Toilet tank bags
- Don't leave water running in sinks
- Take shorter showers and fewer baths
- Place bucket in the shower





# How to Check for Leaks

## Check Toilets for Leaks

### *Simple Steps to Fix a Leaky Toilet*

- 1** Purchase a fill valve and flapper replacement kit.
- 2** Turn off the water supply valve that is located behind the toilet, near, or on the wall, and then give the toilet a flush.
- 3** Open the lid of the top-back portion of the toilet.
- 4** Remove the old fill valve and flapper and replace with the new ones. Put the top lid back on when complete.



# How To Check For Leaks

## Leak Tests

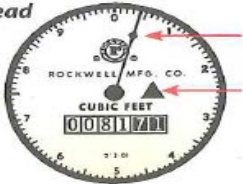
### Test 1: the "Pin" Test

You will use the meter to check for leaks in your pipes and appliances. Allow at least 30 minutes for the test.

**Step 1** Turn off all water-using fixtures and appliances, both indoors and outdoors.

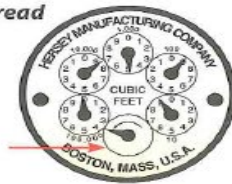
**Step 2** Determine your meter type. There are two types: straight-read and round-read meters.

**Straight-read meter**



The large hand on the dial or a small triangle is used to test for leaks.

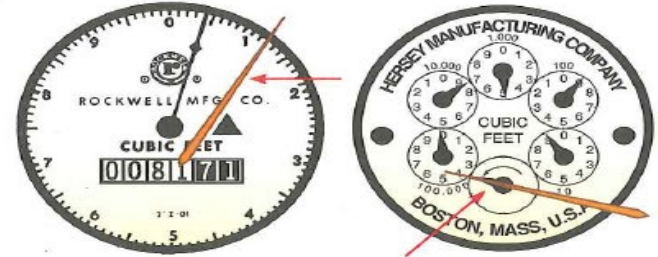
**Round-read meter**



The "one foot" hand, or blank hand, is used to test for leaks.



**Step 3** Place a toothpick or pin on the face of the dial so that it lines up exactly with the hand or the edge of the triangle.



**Step 4** Wait for 30 minutes. Then, before turning on any faucets or hoses, check the dial of the meter to see if the hand has moved.

**If the hand moved:**

There is most likely a leak somewhere on the "house" side of the meter, either in a toilet, a faucet, or a pipe.

Write the results on the worksheet and go to Test 2, where you will try to locate the leak.



**If the hand did not move:**

There is no leak. Write the result on the worksheet and go to Test 3.



# Opportunities Outdoors

- Use a broom to clean sidewalks and pavement instead of a hose
- Hose nozzle with automatic shut-off
- Target your water use in your garden by hand watering exactly in the spots that need it



Californians Don't Waste.

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



Californians Don't Waste.

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

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

# More Opportunities Outdoors

- Water lawns and plants only at night or early morning before dawn to reduce evaporation
  - No more than twice a week during drought
- Test soil moisture before watering- if the top 2 inches feel damp, you do not need to water.
- Follow drought lawn care suggestions



# Home Water Use Calculator

How much water do I use? How do I compare? How can I Conserve?

## Home Water Use Calculator

**How much water do you use?**

**Let's Get Started!**  
Click an area on the home to input data to learn how much water you use and how you can conserve water there. Answer for yourself only and assume you are in your home for a 24-hour cycle.

**My Daily Usage**  
Roll over for results

**Percent Complete**

**Areas to Complete**  
Roll over for number of questions

The interface features a 3D cutaway view of a house with several circular magnifying glass icons overlaid on different rooms (kitchen, living area, bedrooms, bathroom, laundry). Below the house, there are four data visualization components: a pie chart for 'My Daily Usage', a horizontal progress bar for 'Percent Complete', and a bar chart for 'Areas to Complete'.

# Conservation Rebate Programs



## Water Conservation Programs

Welcome to our Conservation Portal



# Lawn Be Gone!

*Get paid to transform your landscaping!*

*BAWSCA and participating member agencies are offering rebates to approved customers that convert water-thirsty lawns to water efficient landscaping.*



pre-conversion



post-conversion

Imagine...

Create...

Enjoy...



# Who Participates?

Agency	City/Cities They Serve	Rebate Amount
Brisbane/GVMID	Brisbane	\$1.00/sq. ft.
Estero (EMID)	Foster City	\$2.00/sq. ft.
Menlo Park	Menlo Park	\$2.00/sq. ft.
Mid-Peninsula WD	Belmont and portions of San Carlos	\$2.00/sq. ft.
Millbrae	Millbrae	\$1.00/sq. ft.
NCCWD	Pacifica	\$4.00/sq. ft.
Redwood City	Redwood City	\$1.00/sq. ft.
San Bruno	San Bruno	\$1.00/sq. ft.





# Application Steps

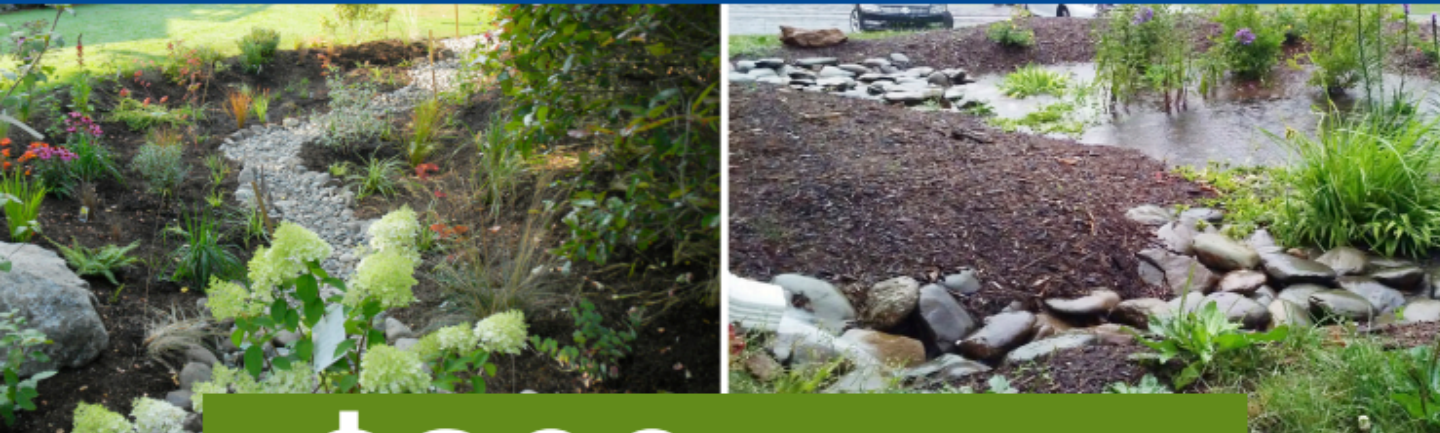
## Lawn Be Gone! Rebate Program Application Steps

- Review the Terms & Conditions and Frequently Asked Questions
- Create a Portal UserAccount
- Add your Water Account
- Submit your application to BAWSCA including:
  - Project Plan
  - Plant List
- Complete your pre-conversion Site Inspection
- Receive your Notice to Proceed
- Complete and submit your Project to BAWSCA
- Complete your post-conversion Site Inspection
- Get paid!



# LAWN BE GONE! REBATE PROGRAM

## Now with NEW Rain Garden Rebate Option



**\$300** NEW RAIN  
GARDEN REBATE

**IN ADDITION TO THE LAWN BE GONE! REBATE**  
Effective July 1, 2020 through June 30, 2021

### RAIN GARDENS BENEFIT YOUR PROPERTY AND THE ENVIRONMENT!

A rain garden is a shallow landscaped depression that captures, cleans, and absorbs rain water from a roof, driveway or street. This practice mimics natural hydrology by infiltrating and evapotranspiring stormwater runoff as it collects and moves through a rain garden.

By positioning a rain garden at least 10 feet from your property and directing rain water runoff into the rain garden you **redirect moisture away from your building's foundation**. Rain gardens are a great way to **reduce localized flooding, standing water issues, and stormwater runoff leaving your property**. Planted with deep-rooted native plants, rain gardens help **filter out pollutants in runoff** and **provide food and shelter for pollinators, butterflies, and birds**.

# Rain Barrel Rebate

## RAIN BARREL REBATE APPLICATION FOR SAN MATEO COUNTY



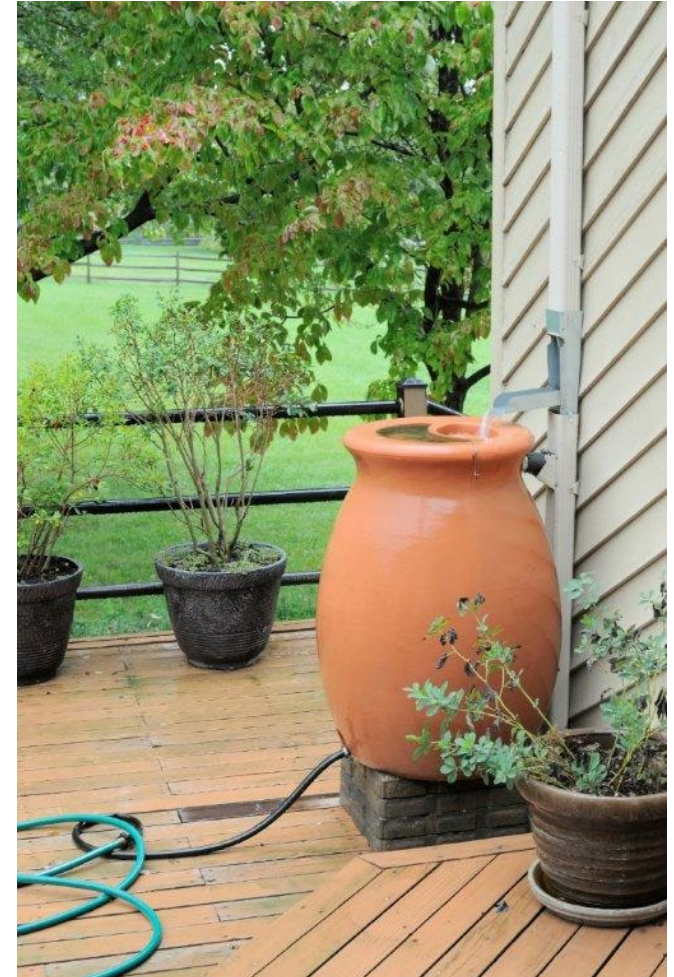
UP TO **\$200** REBATE  
EFFECTIVE JULY 1, 2020 TO JUNE 30, 2021

Rain barrels benefit the environment, your plants, and your budget. Rain barrels:

- **Are one of the best ways to save money and water** by cutting back potable water used for irrigation.
- **Protect local creeks, the San Francisco Bay, and the Ocean** by reducing urban runoff that transports litter, motor oil, pesticides, and other pollutants into storm drains.
- **Can moderate flooding during the rainy winter season**, decrease land erosion, and also reduce the amount of moisture that reaches your home's foundation.
- **Collect rainwater**, which is free of the additives that tap water has for sanitation which will make your plants and garden thrive.

# Who Participates?

- All agencies within San Mateo County
- Alameda County WD, Hayward, Sunnyvale
- In partnership with the San Mateo Countywide Water Pollution Prevent Program (a program of the City/County Association of Governments of SMC)



# Rebate Amounts

Rebates are up to \$200 per rain barrel or up to the total cost of the rain barrel, not including sales tax, whichever is less.

1. New rebated amounts are effective July 1, 2020 through June 30, 2020

1. Rain barrels with a 50-99 gallon capacity:

\$50 (+\$50 from participating member agencies) = **Up to \$100 rebate per rain barrel**

2. Rain barrels with a 100-199 gallon capacity:

\$100 (+\$50 from participating member agencies) = **Up to \$150 rebate per rain barrel**

3. Rain barrels with a 200+ gallon capacity:

\$150 (+\$50 from participating member agencies) = **Up to \$200 rebate per rain barrel**



# Smart Controller Rebates

## **Rachio Smart Sprinkler Controller Available at Discount!**

In partnership with BAWSCA, this limited-time program encourages homeowners to maximize watering efficiency at a discounted price on our Rachio R3. Receive premium smart watering technology until supplies run out!

# Smart Controller Rebates

- The Rachio 3:
  - Can save up to 50% of your outdoor water use
  - Costs you just \$100 plus sales tax (up to a \$270 retail value).
  - Is compatible with almost any irrigation system—just swap out your old controller and continue using your existing pipes and sprinkler heads.
  - Calculates when and how long to run your sprinklers.
  - Adjusts to local weather conditions.
  - Allows you to control your sprinklers from anywhere with your mobile device.
  - Easily connects to Amazon Alexa, Google Assistant, Apple Homekit, Nest, and more

# Who Participates?

Agency	City/Cities They Serve	Rebate Amount
Alameda County WD	Fremont, Union City	~\$180
Burlingame	Burlingame	~\$180
Hillsborough	Hillsborough	~\$180
Menlo Park	Menlo Park	~\$180
Mid-Peninsula WD	Belmont, portions of San Carlos	~\$180
Millbrae	Millbrae	~\$180
Redwood City	Redwood City	~\$180



**#1 Rated and Reviewed**

On Amazon, Home Depot, Lowes, and other consumer rating websites and publications.



# Residential Landscape Education Program

- BAWSCA offers Free Landscape Education Classes in the Spring and Fall of each year.
  - Classes are designed to introduce homeowners, commercial property managers, landscape service providers, and others to concepts of water efficient and sustainable landscaping.
  - [Currently offered through Zoom](#)



<http://bawasca.org/classes/>

# New Programs!

- **Irrigation Hardware Rebates:**
  - High efficiency sprinkler nozzles
  - Spray Bodies
  - Rotors
- **Residential Self-Audit Tool:**
  - Residents will be able to order and online kit to conduct a self-administered home audit.



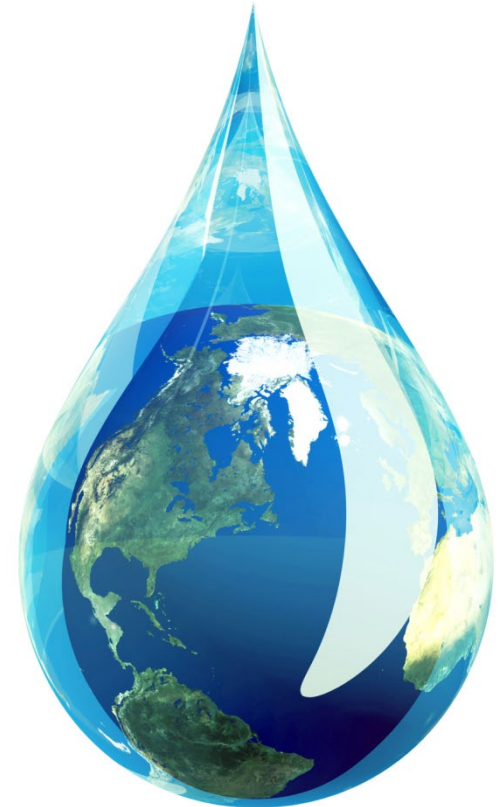
# Cal Water Programs in San Mateo County

- Rebates
  - [www.calwater.com/rebate](http://www.calwater.com/rebate)
    - High-efficiency toilets
    - High-efficiency clothes washers
    - Smart irrigation controllers
    - High-efficiency sprinkler nozzles
- Conservation Kits
  - [www.calwater.com/kit](http://www.calwater.com/kit)
- Smart Landscape Tune-Up Program
- Turf Replacement Rebate (In Development)



# Additional Resources

- Permeable Pavement
- Bay Friendly Landscaping and Gardening
- Soil & Mulching
- Planning
- Sheet Mulching
- Bay Friendly Guide to Mulch
- California Invasive Plant Council
- Lose the lawn: 21 inspiring yards
  - *Links to these resources can be found on the BAWSCA website*



Visit [www.BAWSCA.org](http://www.BAWSCA.org) for More Ways to Save

Kyle Ramey

[kramey@bawasca.org](mailto:kramey@bawasca.org)

650-349-3000

Questions?

