

Water Wednesday Series

DROUGHT, WATER YOU GOING TO DO ABOUT IT?

Find out how you can meet the East Bay's drought challenge!

July 21 - 6 pm - Zoom



CHARLES BOHLIG

Water Conservation
Supervisor



ALICE TOWEY

Water Conservation
Manager

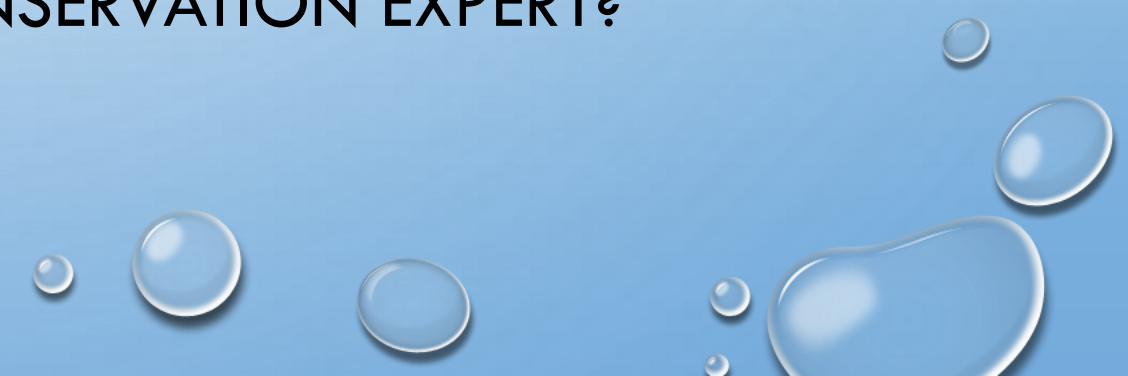


WHITNEY RAY

Water Conservation
Supervisor



OVERVIEW

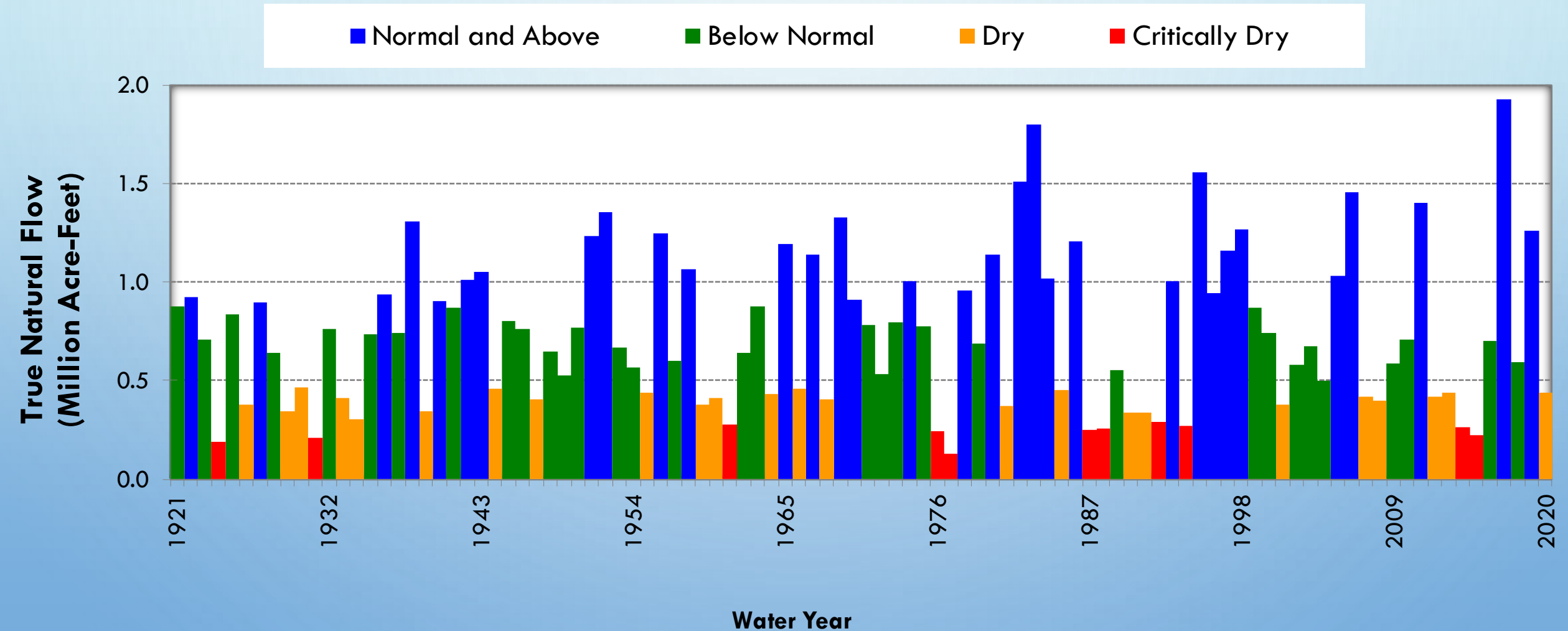
1. WHY CONSERVE WATER AND WHAT IS EBMUD DOING TO CONSERVE WATER?
 2. WHAT CAN YOU DO TO SAVE WATER?
 3. TRIVIA!
 4. WHAT IS THE FUTURE OF WATER CONSERVATION AT EBMUD?
 5. GOT A QUESTION: ASK A WATER CONSERVATION EXPERT?
- 

WHY SHOULD WE CONSERVE?



A HIGHLY VARIABLE WATER SUPPLY

Mokelumne River Historic Water Supply Variability



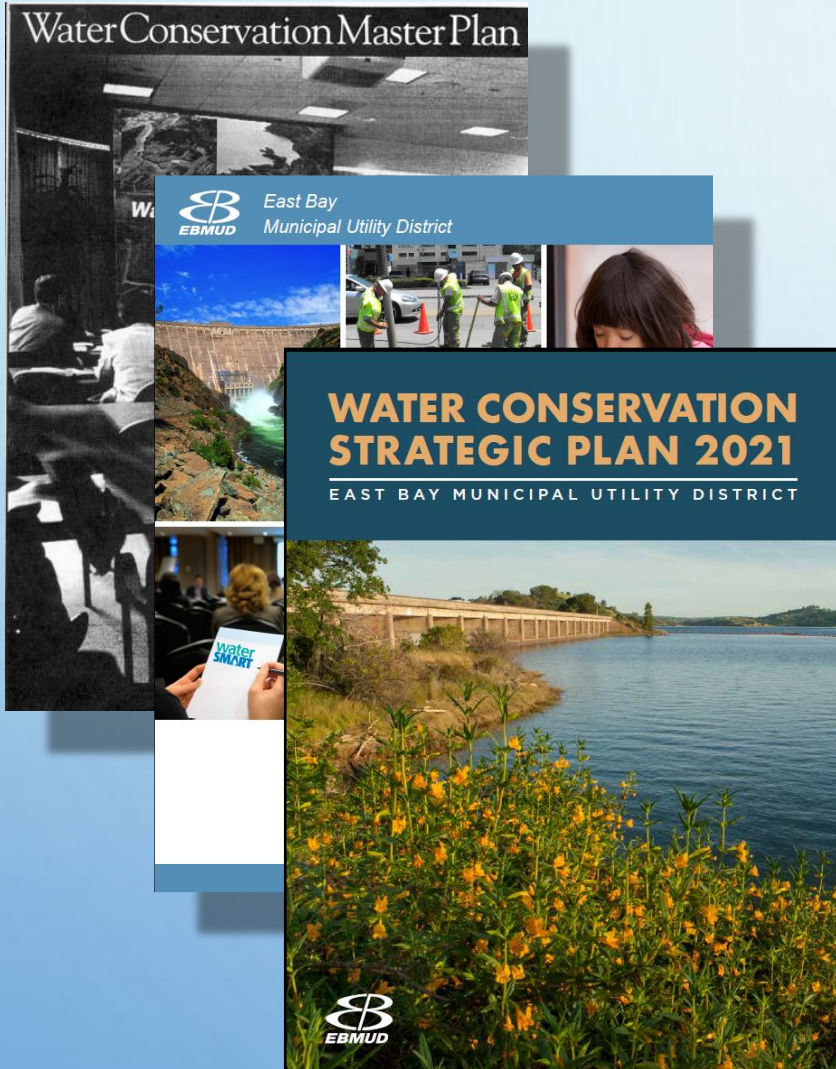
INCREASED THREAT
DUE TO CLIMATE
CHANGE



IT'S ABOUT MORE THAN JUST WATER SUPPLY

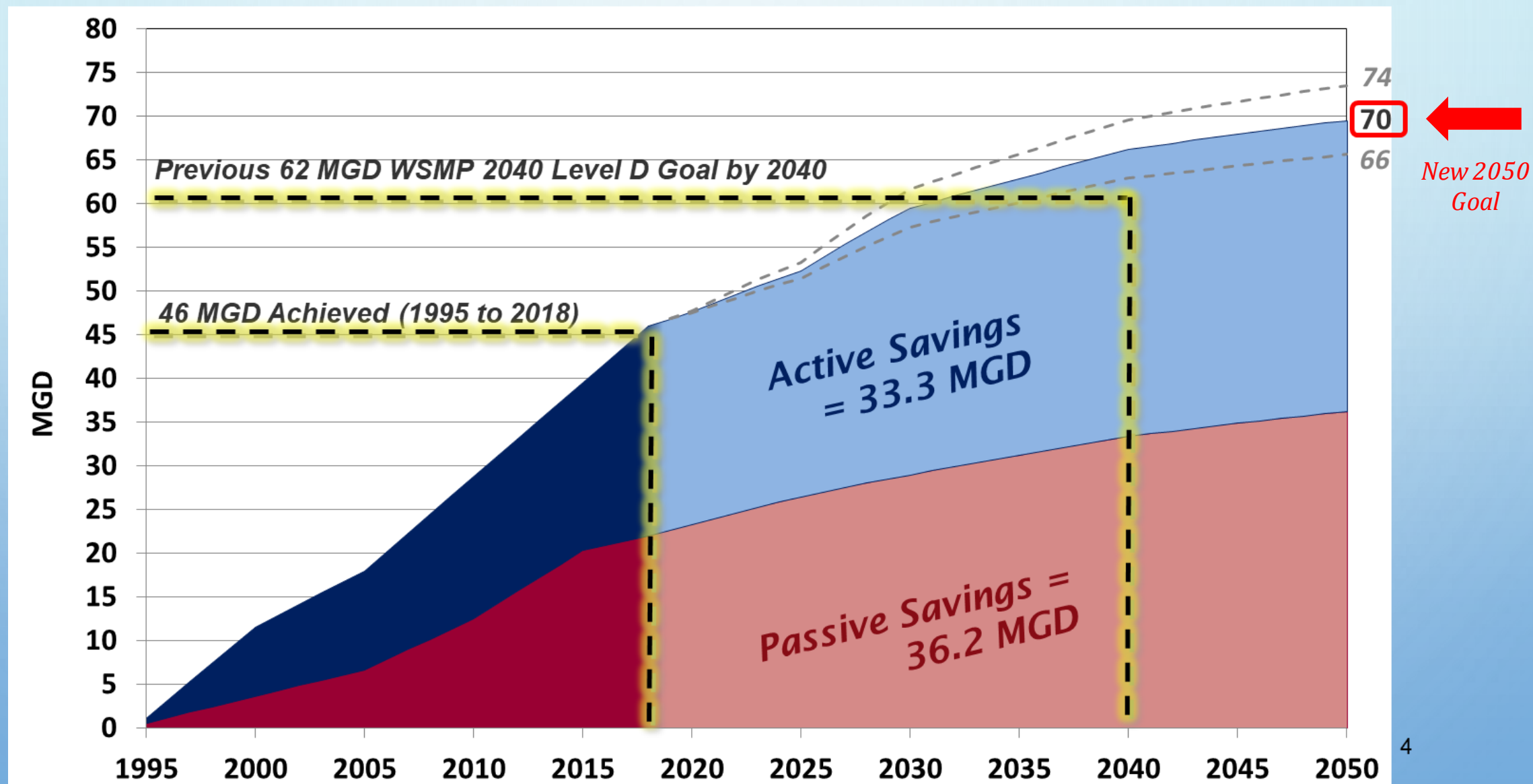


EBMUD WATER CONSERVATION PROGRAM

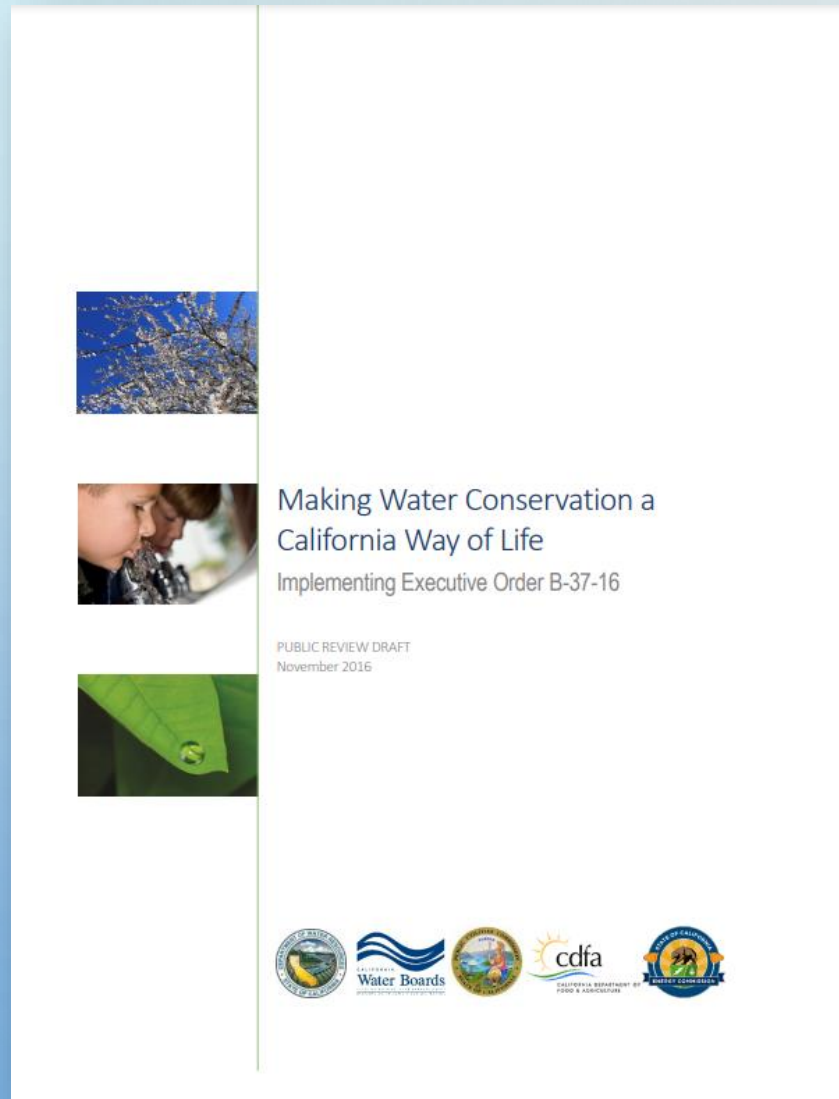


- Conserving water since the 1970s
- An important component of EBMUD's overall water supply portfolio
- First Water Conservation Plan in 1994
- Plan is updated periodically to reflect new goals, technologies, and water conservation practices
- 2021 Plan is in progress

WHERE WE'VE BEEN AND WHERE WE'RE GOING



EMERGING STATE REGULATIONS



Water Use Objectives:

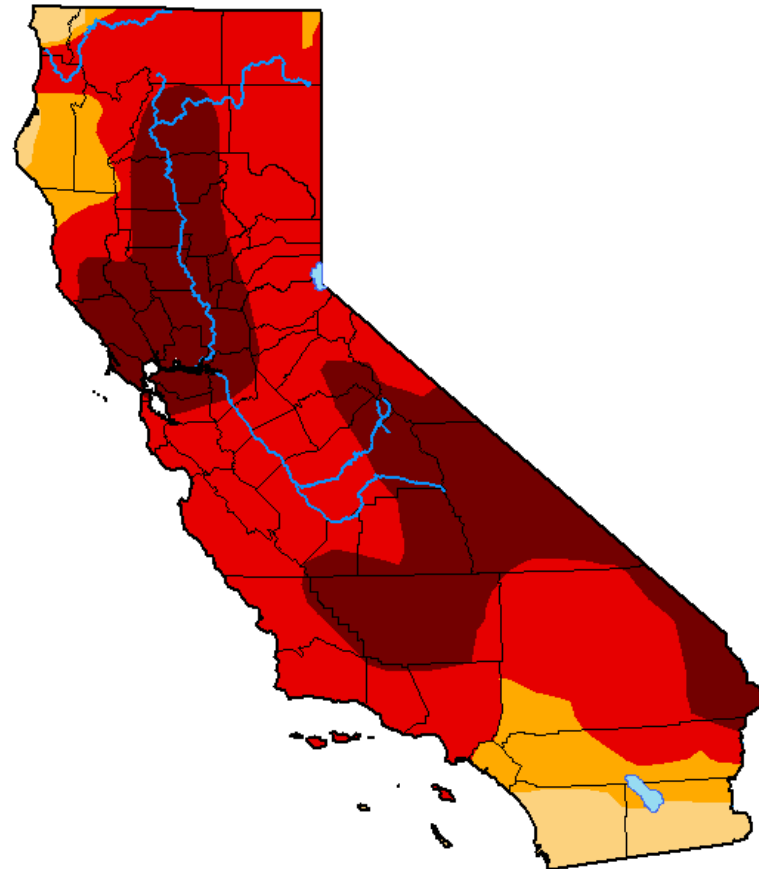
$$\begin{aligned} &\text{Indoor Residential Use} \\ &+ \\ &\text{Outdoor Residential Use} \\ &+ \\ &\text{Dedicated Commercial} \\ &\text{Irrigation Use} \\ &+ \\ &\underline{\text{Distribution System Water Loss}} \\ &= \end{aligned}$$

Annual Water Use Objectives

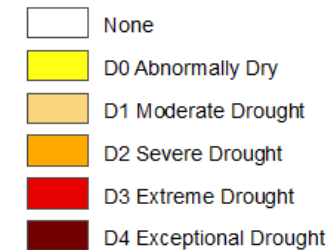
2021: CURRENT STATEWIDE DROUGHT MONITOR

U.S. Drought Monitor California

July 13, 2021
(Released Thursday, Jul. 15, 2021)
Valid 8 a.m. EDT



Intensity:



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

Adam Hartman
NOAA/NWS/NCEP/CPC



droughtmonitor.unl.edu

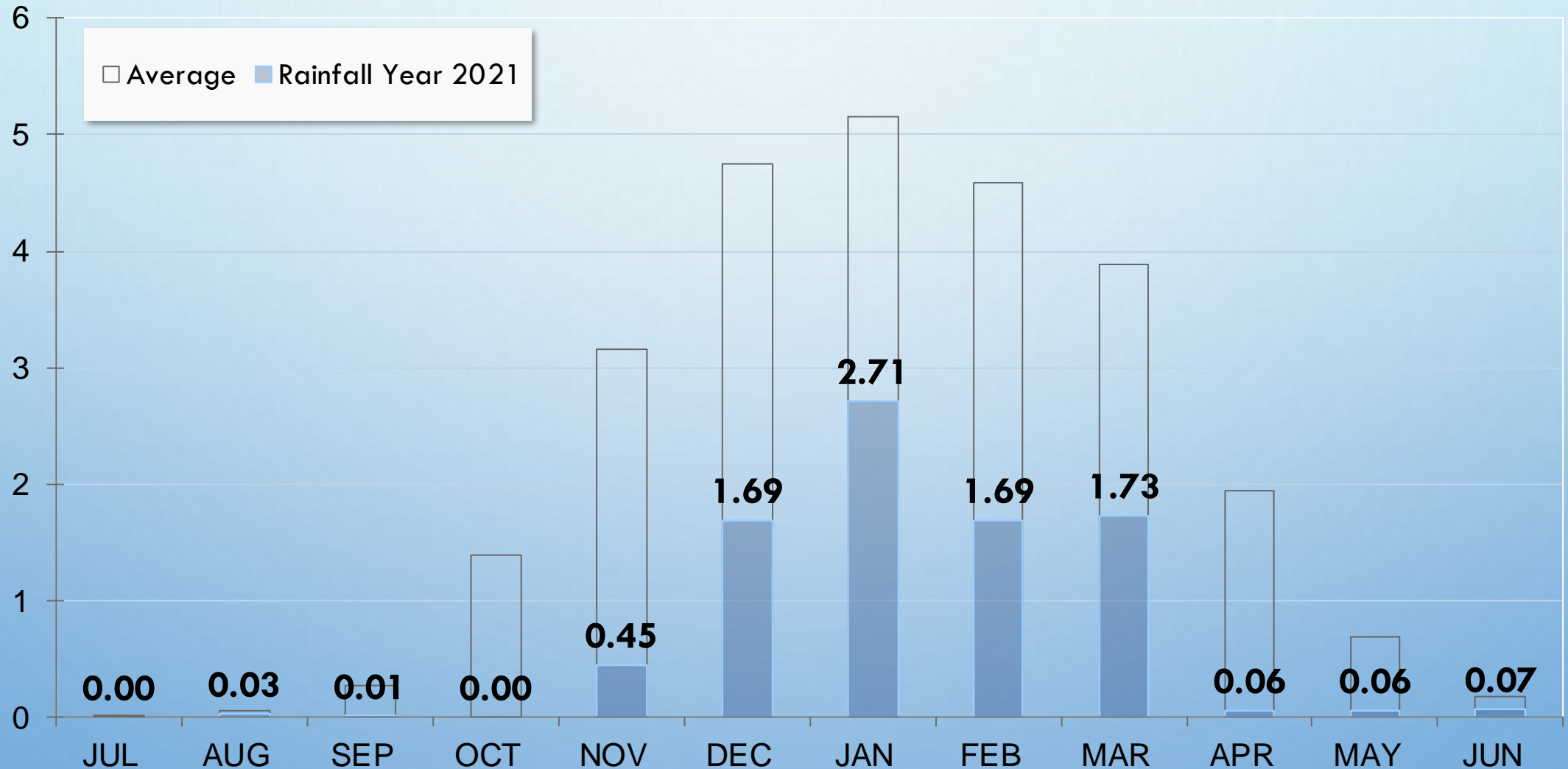
EBMUD WATER SUPPLY: MOKELUMNE PRECIPITATION

Through June 30: 24.72" (51% of average)



EBMUD WATER SUPPLY: EAST BAY PRECIPITATION

Through June 30: 8.50" (32% of average)



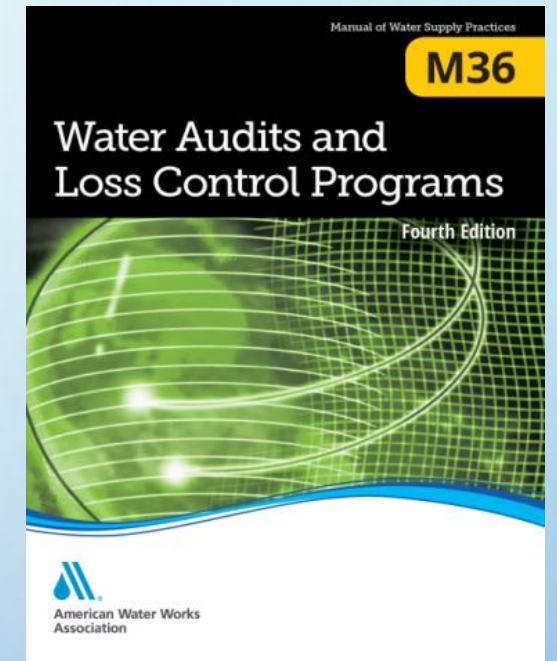
KEY 2021 DROUGHT FACTS

- SECOND DRIEST YEAR ON RECORD IN THE MOKELUMNE WATERSHED, AND DRIEST YEAR ON RECORD IN THE EAST BAY
- APRIL 27, 2021 – EBMUD DECLARES A STAGE 1 DROUGHT
 - ASKING FOR 10% VOLUNTARY CONSERVATION DISTRICT-WIDE
 - PURCHASING SUPPLEMENTAL WATER FROM THE SACRAMENTO RIVER
- WE'RE TAKING ACTION NOW SO WE'LL BE IN A BETTER POSITION IF NEXT YEAR IS ALSO DRY

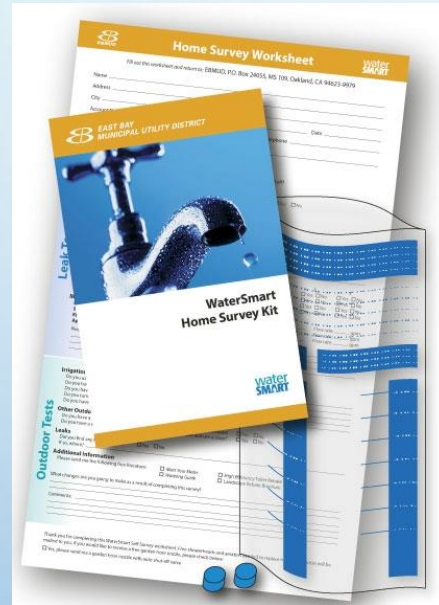
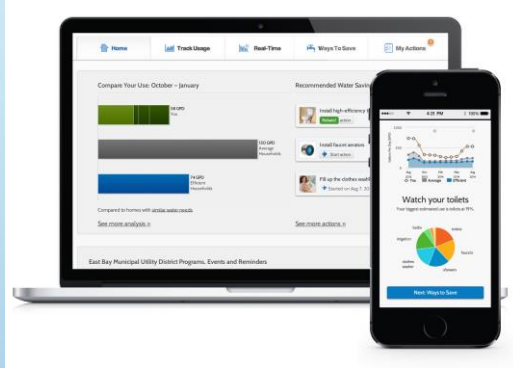


EBMUD IS DOING ITS PART: WATER LOSS CONTROL

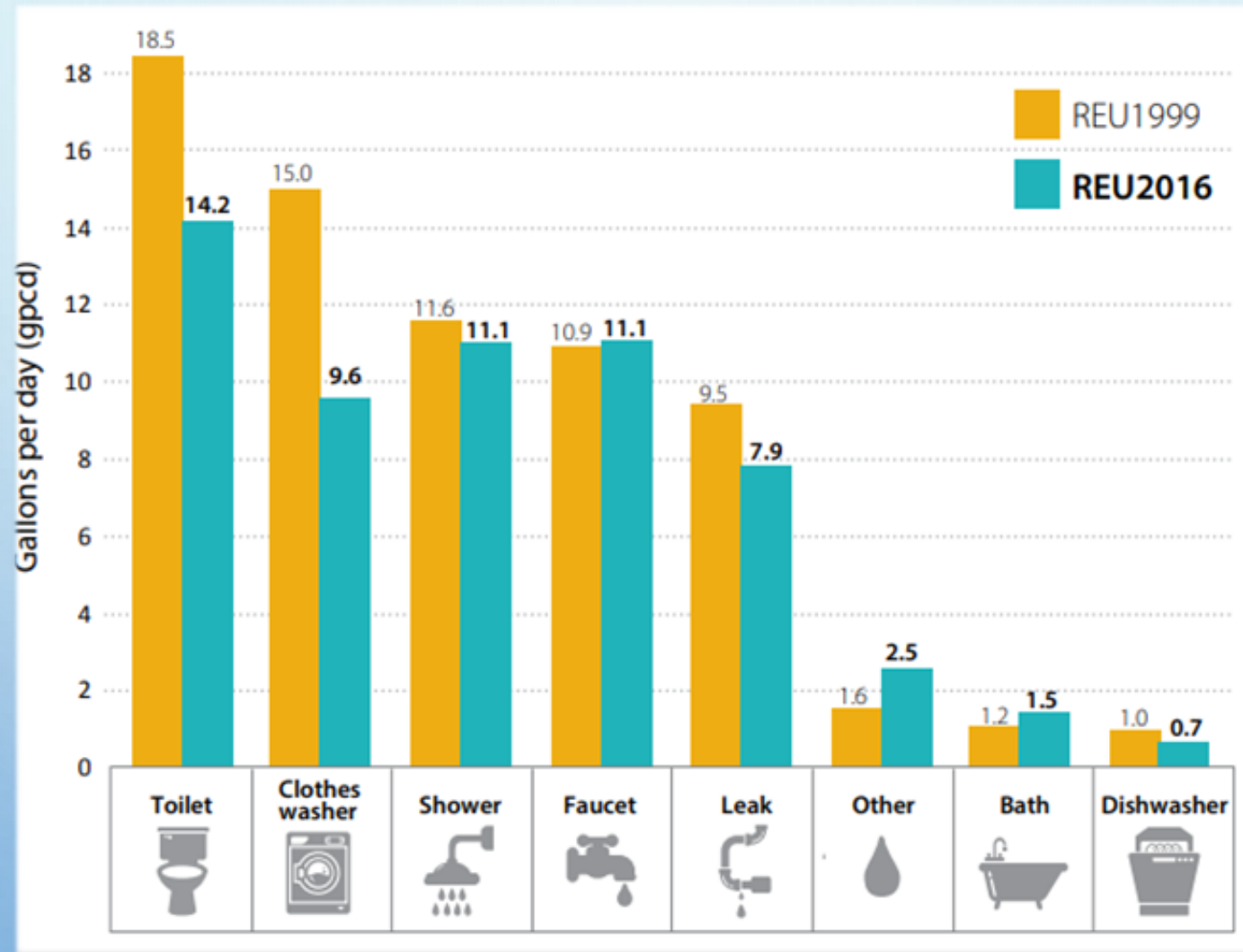
1. Pressure management
2. Active leak detection
3. Speed and quality of repairs
4. Infrastructure management



WHAT CAN YOU DO TO SAVE WATER

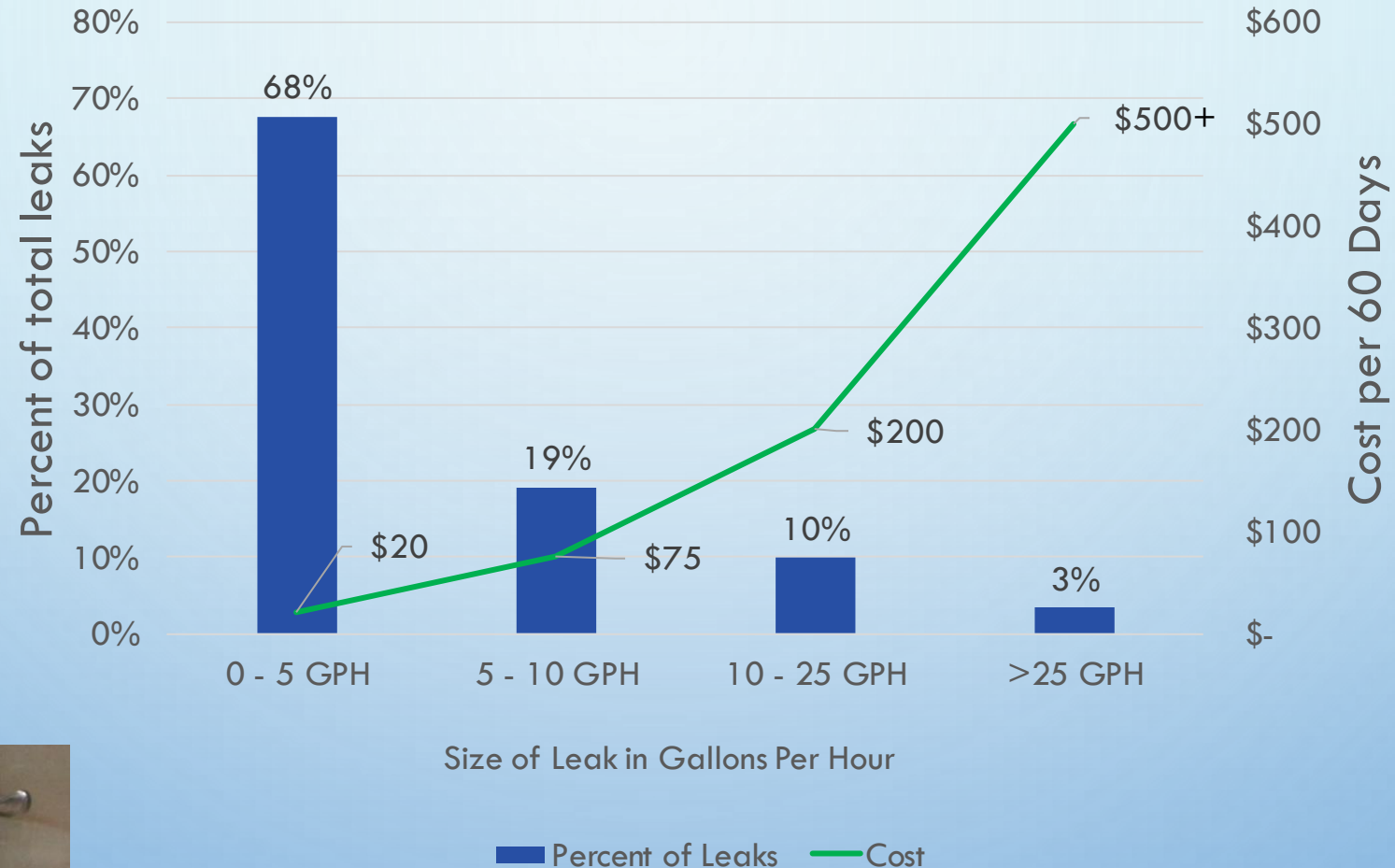


Residential Use – Gallons per Day



Data source: Residential End Uses of Water Version 2, 2016

LEAK SIZES AND COSTS



**Example: 3.75 GPH
Leak**

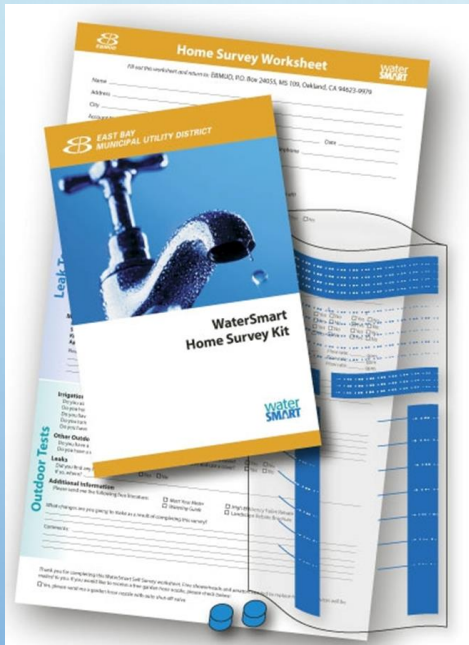


Cost includes Single Family Tiered Rates with 100 GPD baseline use

GPH = Gallons per Hour

2020-21 Rates

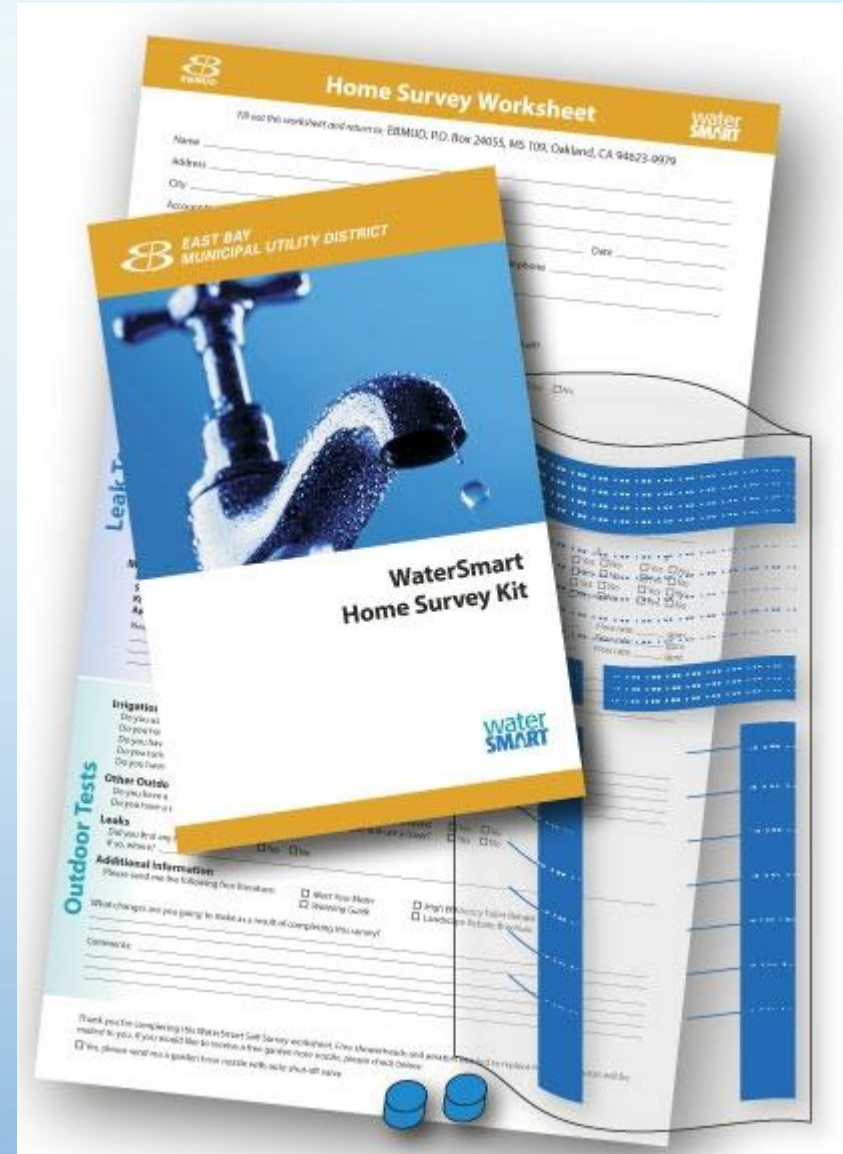
INDOORS



FREE WaterSmart Home Survey Kit

- Illustrated step-by-step instructions
- Dye Tabs for toilet leaks
- Flowbag for measuring volume of faucets and showerheads
- Mail us a worksheet with results
- Receive free efficient showerheads and faucet aerators if need

Order online for free: ebmud.com/store



FREE Efficient Devices From EBMUD

ebmud.com/freedevices



Showerheads

Kitchen Aerators

Bathroom Aerators



OUTDOORS



Courtesy of Contra Costa Water District

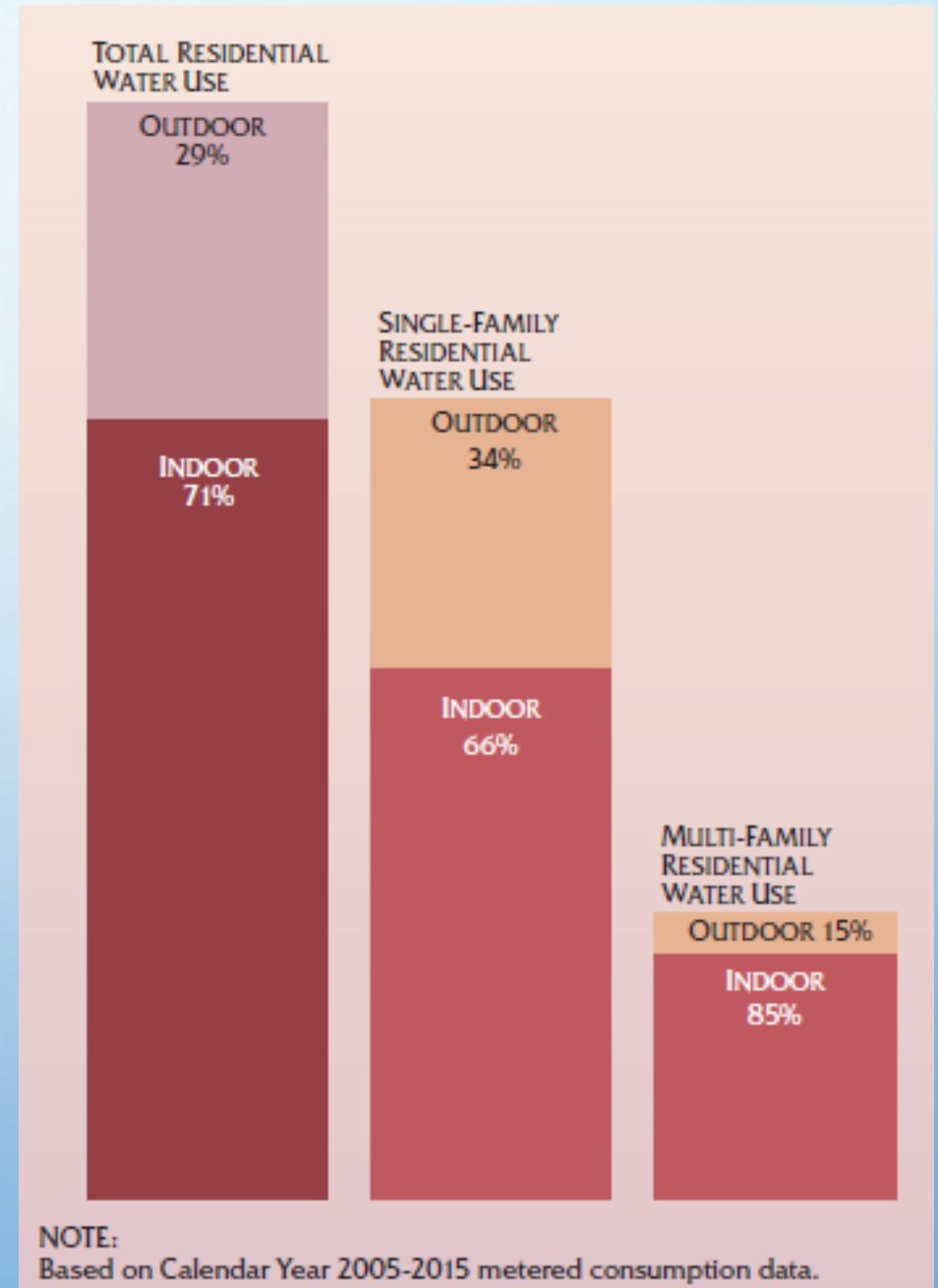
TOP REPORTED CUSTOMER LEAKS

Cause of Leak	Count	%
Outdoor Watering System	219	42%
Toilet	124	24%
Pipes	76	14%
Faucet or Shower	66	13%
Other	26	5%
Pool	8	2%
Hot Water Tank	6	1%
Large Appliance	2	0.4%
Total	527	

Irrigation and toilet leaks are the most common!

AVERAGE EBMUD HOUSEHOLD WATER USE

- Outdoor water use: 34%
- Indoor water use: 66%



EBMUD LAWN CONVERSION AND IRRIGATION UPGRADE REBATES

Rebates	Rebate Amount
Lawn Conversion	Standard: \$0.75/square foot Super: \$1.50/square foot
Drip Conversion	\$0.25/ square foot
Smart Controller	\$75 per controller
High Efficiency Nozzles	\$2 per nozzle
Pressure Regulator	\$75 per device
Irrigation Submeter	\$75+ per device

APPLY BEFORE YOU BUY! REBATES ARE NOT RETROACTIVE

REBATE TOTAL: UP TO \$2,000 FOR RESIDENTIAL OR \$15,000 FOR COMMERCIAL & MULTI-FAMILY (5 OR MORE UNITS) OVER A TWO YEAR PERIOD

EBMUD.COM/REBATES





Estimated Annual Water Use for 1,000 Square Feet:

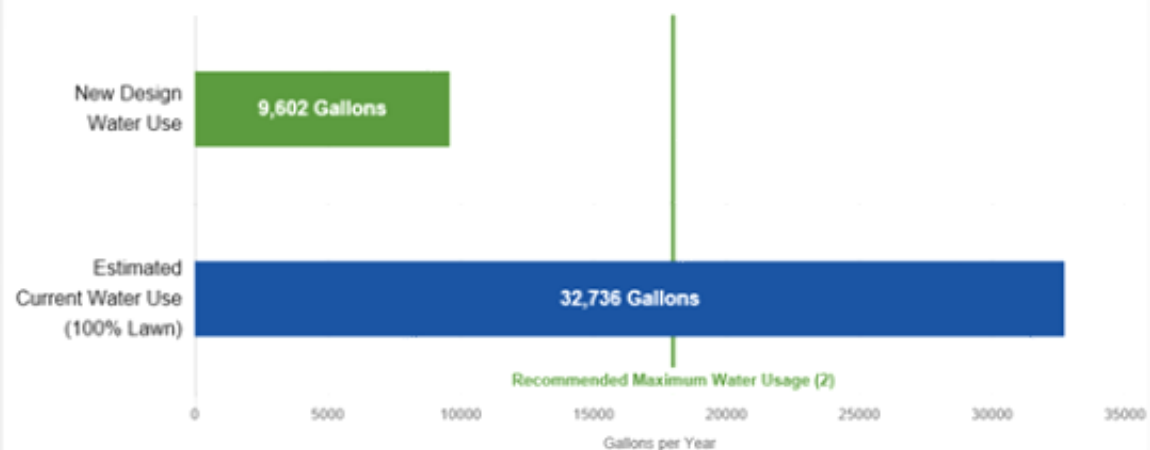




Image courtesy of QWEL

COMMON IRRIGATION PROBLEMS

- Poor coverage and runoff
- High pressure
- Mix-matched irrigation equipment
- Spray irrigation in non-suitable areas
- Improper controller programming

EFFICIENT IRRIGATION

- **BASIC TIPS**

- DON'T WATER TURF MORE THAN THREE TIMES PER WEEK; WATER SHRUBS AND TREES ONCE PER WEEK
- AVOID RUNOFF AND OVERSPRAY
- WATER AT DUSK OR DAWN TO AVOID EVAPORATION



Look out for overwatering!

- **HELPFUL TOOLS**

- WATERING SCHEDULES, CALCULATORS, AND TIPS

EBMUD.COM/WATERSMART-GARDENER

[illegible]

REPORT WATER WASTE

- FILL OUT THE WATER WASTE FORM ONLINE

WWW.EBMUD.COM/REPORTWATERWASTE

- SEND AN EMAIL WITH INFORMATION AND PHOTOS TO
WATERCONSERVATION@EBMUD.COM

- LEAVE A VOICEMAIL AT THE WATER WASTE HOTLINE: CALL
1-866-40-EBMUD AND PRESS 5 FOR NON-ACCOUNT
INQUIRIES





Hydrant



Meter



Main line

EBMUD GETS LEAKS TOO!



Report EBMUD leaks at 1-866-40-EBMUD and press 1 for Dispatch

WHAT ARE WE ASKING OUR CUSTOMERS TO DO?

1. Irrigate efficiently



2. Find and fix leaks

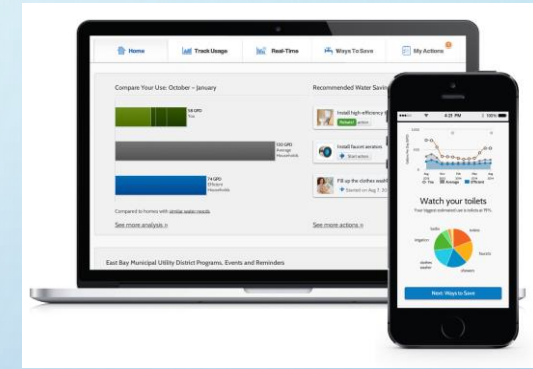
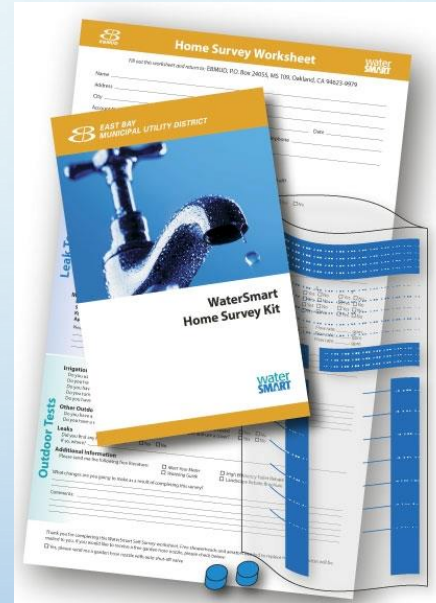


3. Be mindful of indoor use

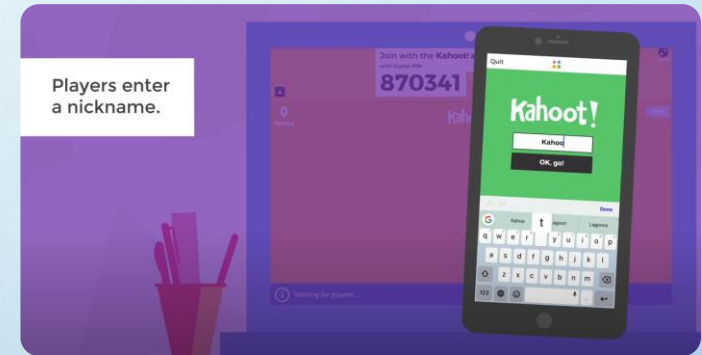
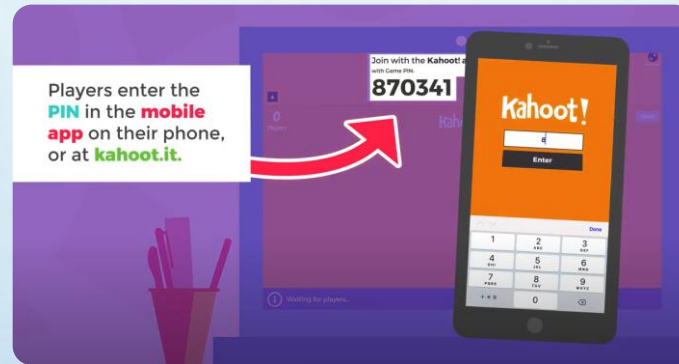
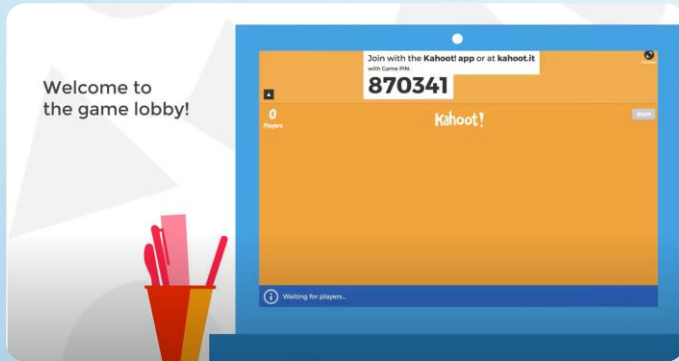


WHAT CAN YOU DO TO SAVE WATER

- CHECK YOUR HOME FOR LEAKS
 - EBMUD.COM/LEAKS
- CONDUCT A HOME AUDIT
 - EBMUD.COM/HOMESURVEYKIT
- UPGRADE YOUR OUTDOOR LANDSCAPE AND IRRIGATION
 - EBMUD.COM/REBATES
- SIGN UP FOR MY WATER REPORT PROGRAM
 - EBMUD.COM/MYWATERREPORT



WATER CONSERVATION TRIVIA TIME

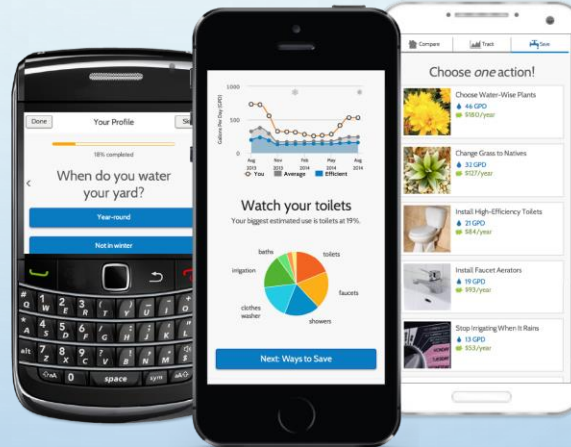



To join the game, visit Kahoot.it on a separate device (smart phone, tablet, computer)


This device will become your remote to respond to questions!




FUTURE OF CONSERVATION AT EBMUD



 **Having trouble paying
your water bill?**

 **EBMUD can help!**

 **You may qualify for assistance**
Call 866-403-2683 or visit ebmud.com/CAP to find out.

Watersmart Calculator



**How much
water** do you use?



Thank you for conserving.

Let's Get Started!

Click an area around the home to input data to learn how much water you use and how you can conserve water. 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

ebmud.com/water/conservation-and-rebates/residential/watersmart-calculator

SIGN UP FOR MY WATER USE

EBMUD.COM/MYWATERINFO

EBMUD offers a FREE online portal to all customers to help track and manage water use.



LOG ON

Register to access your data



GET NOTIFIED

Sign up for alerts



SAVE

Money saving actions

Step 1: Sign in

First-time user: make sure you have your EBMUD account number on hand, and follow these instructions. 

Step 2: Set up leak and high use alerts

Notifications via text message or email are helpful when you use autopay for bills, and might not notice an important increase in your water bill.



My Use Notifications

You will be notified when you use over **2X** times your normal use.

PERSONALIZED HOME WATER REPORTS

Driest year since 1977: Make every drop count.

Your Home Water Report for May 8 – Jul 7, 2021

This is an informational report and not a bill.

SERVICE ADDRESS:

ACCOUNT NUMBER:



Your WaterScore



Nice work, WaterSaver.
Continue to use water wisely.

Gallons Per Day (GPD)

35 CCF = 429 GPD

Top 20%  299 GPD

You  429 GPD

Average Households  567 GPD

Your water use is compared to homes in EBMUD's service area with 4 occupants and a similar yard size and climate.

[Learn more about your water use](#)

Your personalized plan

Selected based on your household characteristics, yard size, and historical water use.

[Log on to update your profile](#)



[Replace your grass](#)

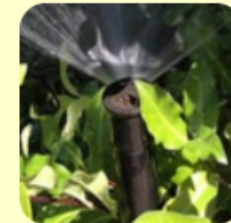
Update your landscape.
Change to beautiful,
WaterSmart plants.

 Rebate



[Fill up the clothes washer](#)

Run full loads of clothes to
save energy and water.



[Trim plants near spray heads](#)

Trim leaves that may be
blocking the flow of water from
your sprinkler heads.

[See more ways to save!](#)

Contact us

(866) 403-2683

WaterConservation@ebmud.com

ebmud.com/trackusage

Follow us



My Water Reports



My Water Report
Program

English

Logout

Home

Billing

Track

Take Action

Settings

SERVICE ADDRESS

ACCOUNT NUMBER

1200 21st St, Oakland CA 94607

12345678911

Account Settings

Communication Preferences

Download Your Data

My Daily Use

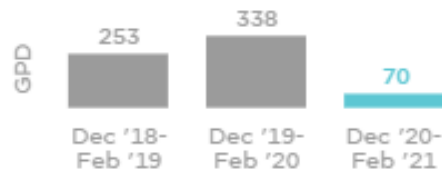
70

Gallons Per Day

View use

Compare your past use
for this billing period.

-79% ↓



I Want To...



Check if I have a leak



Understand a high bill



Sign up for unusual use
alerts



Manage my account

Notifications

Reminder

Enroll in Alerts

Protect your property and get ...
[read more](#)

Announcement

Add a shortcut to the Portal on
your mobile phone

Did you know that you can add...
[read more](#)

Announcement

Stay informed—read the

Track your water use

Manage Communication
Preferences

Find and resolve leaks

Tweets by @ebmud

Recommended



Identifying Leaks – Billing Data

Home

Billing

Track

Take Action

Settings

HOURLY

OVERVIEW

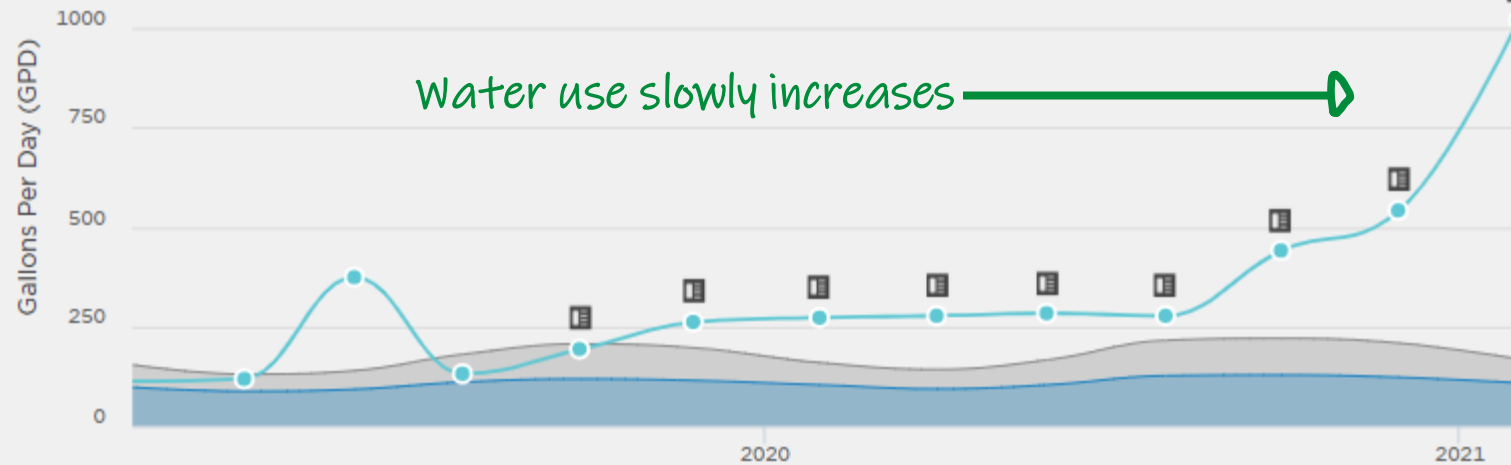
LEAKS

Overview

You Average Households Top 20% Water Report

Feb 1, 2019

Jan 31, 2021



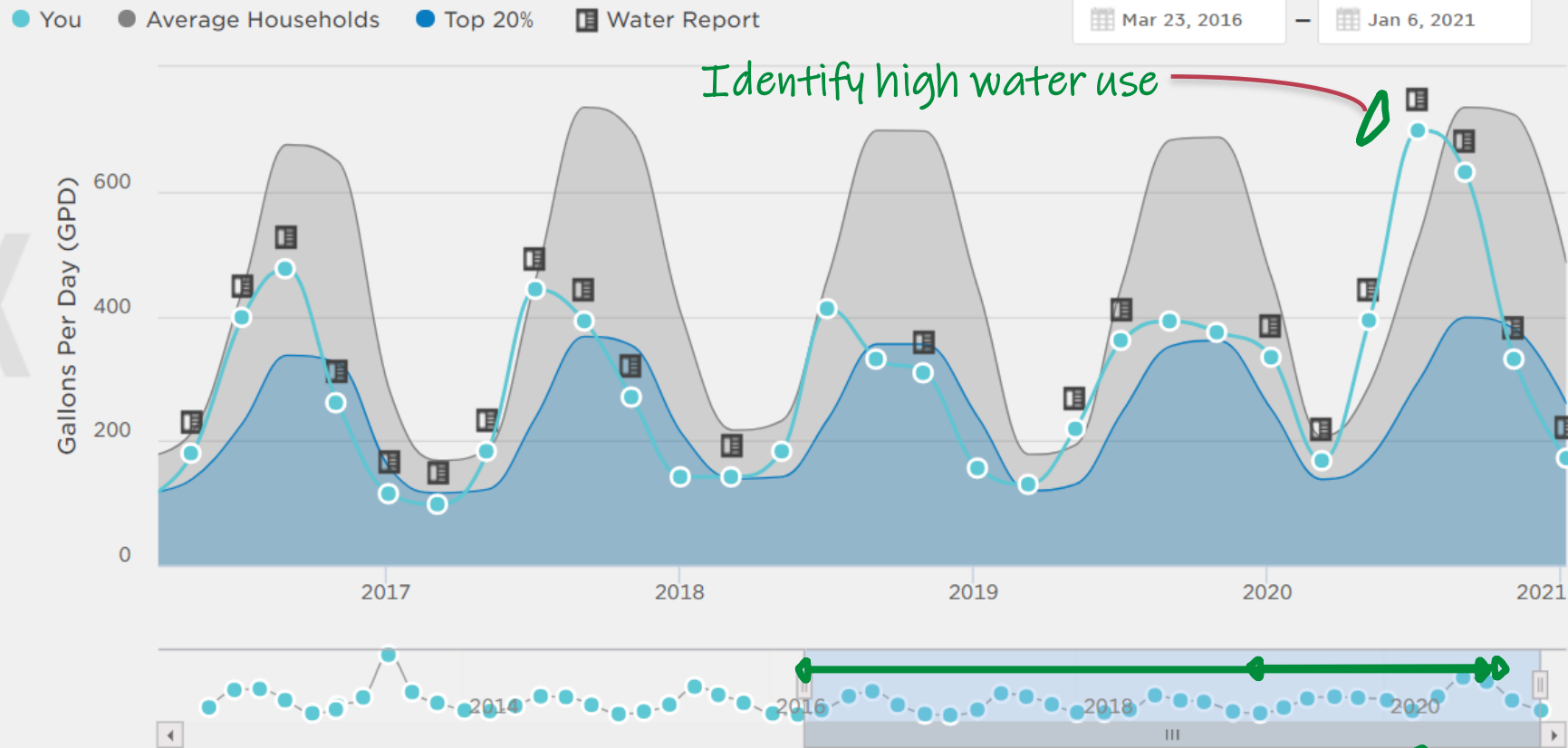


My Water Reports – Track Usage

[Home](#)[Billing](#)[Track](#)[Take Action](#)[Settings](#)

Overview

See Changes in Seasonal patterns in water use.



Change the time shown in the chart

Identifying Leaks – Hourly Data

[Home](#)[Billing](#)[Track](#)[Take Action](#)[Settings](#)**HOURLY**

OVERVIEW

LEAKS

Hourly

DAY

WEEK

2 WEEKS

2 MONTHS

YEAR

Jan 3, 2021

Mar 5, 2021

Normal Use Possible Leak Data Unavailable

Last updated Friday, Mar 5, 2021 at 4:00 AM

Gallons

1000

500

0

*Regular irrigation schedule**Leak*Mon
Jan 4Mon
Jan 11Mon
Jan 18Mon
Jan 25Mon
Feb 1Mon
Feb 8Mon
Feb 15Mon
Feb 22Mon
Mar 1

Nov 2020

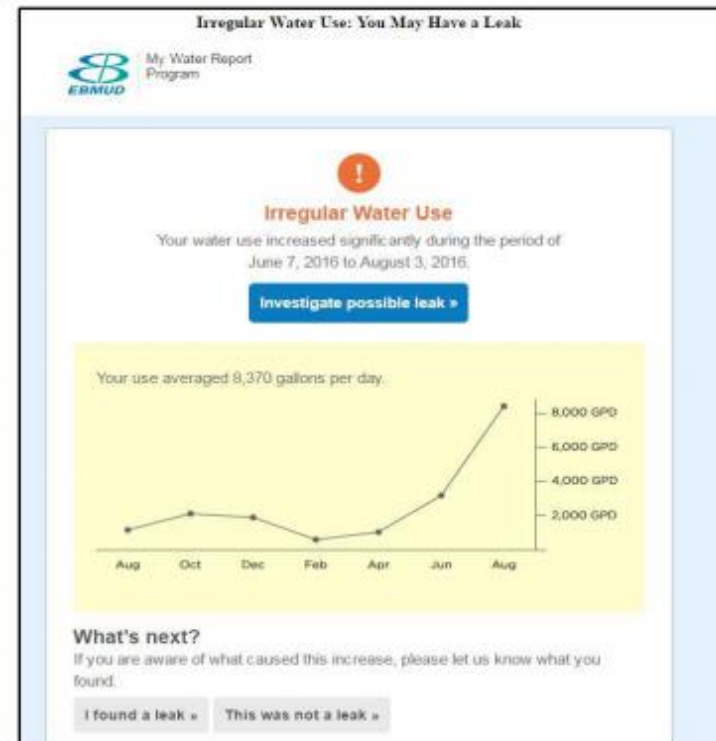
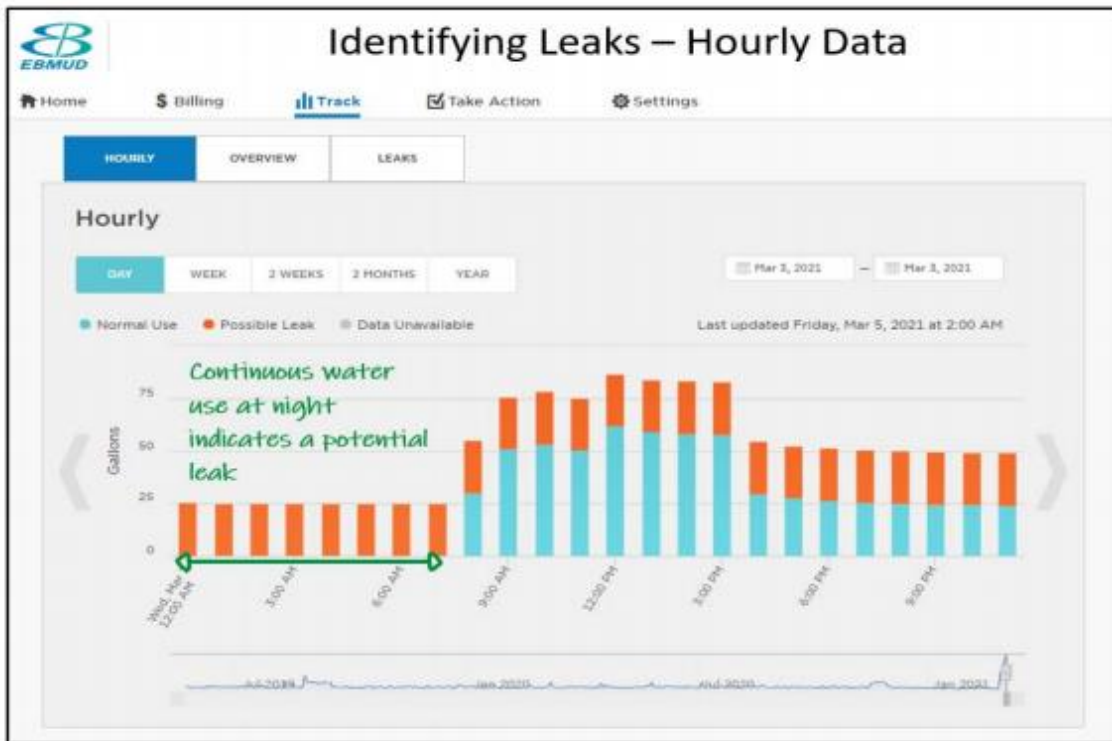
Dec 2020

Jan 2021

Feb 2021

Mar ...

Promote Leak Detection



10-Minute Leak Challenge

Drop food coloring in the tank. If color seeps into the bowl, replace the toilet flapper.



LEAKS 101

The most common causes of irregular water use are easy to find and fix. For more detailed tips, log on to ebmud.waterinsight.com/LeakCheck.



Running Toilets

Listen for running water or do a dye test. Check the flapper and the float valve.



Irrigation

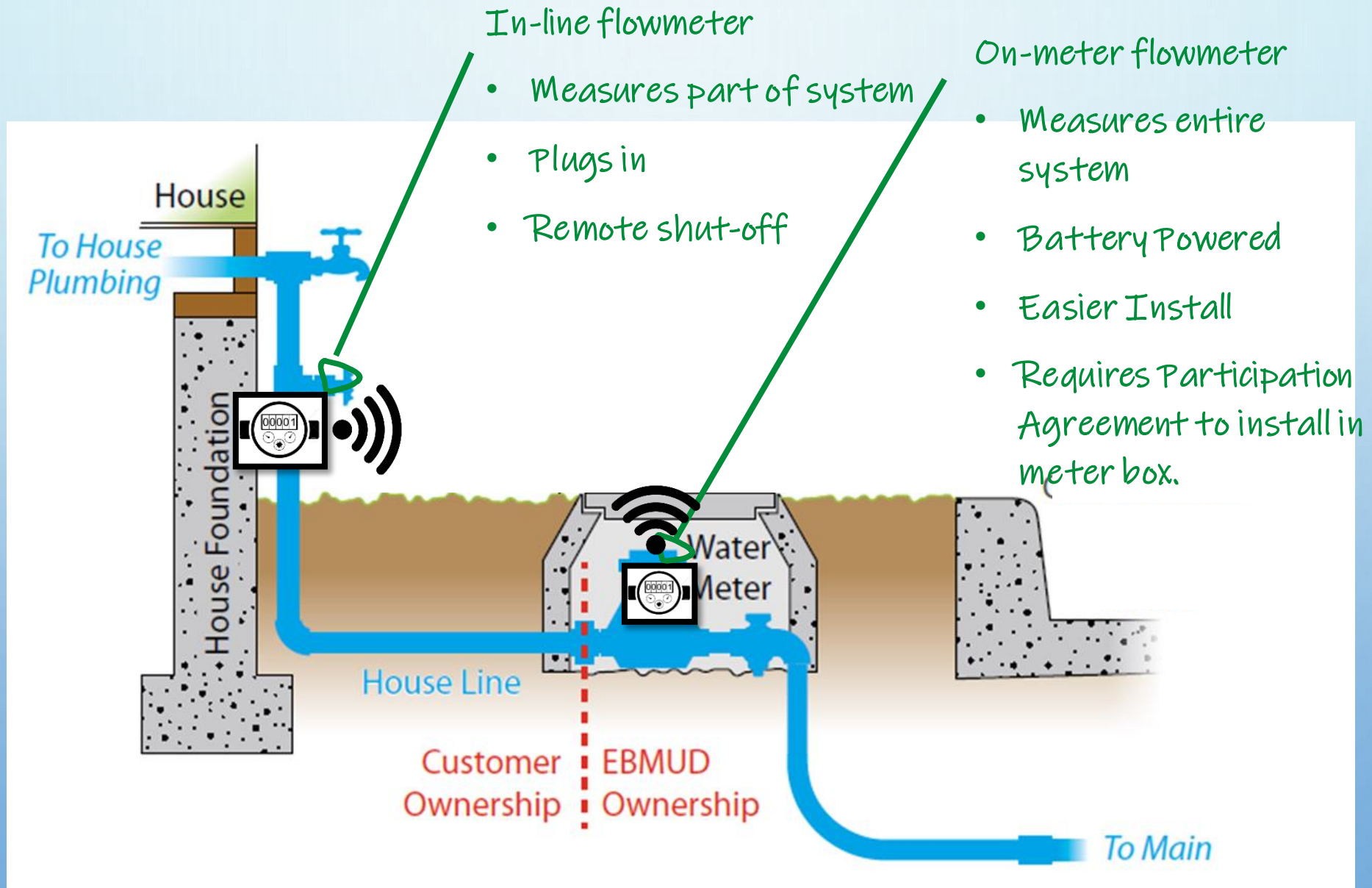
Check your controller settings. Inspect your system for breaks or excessively damp areas.



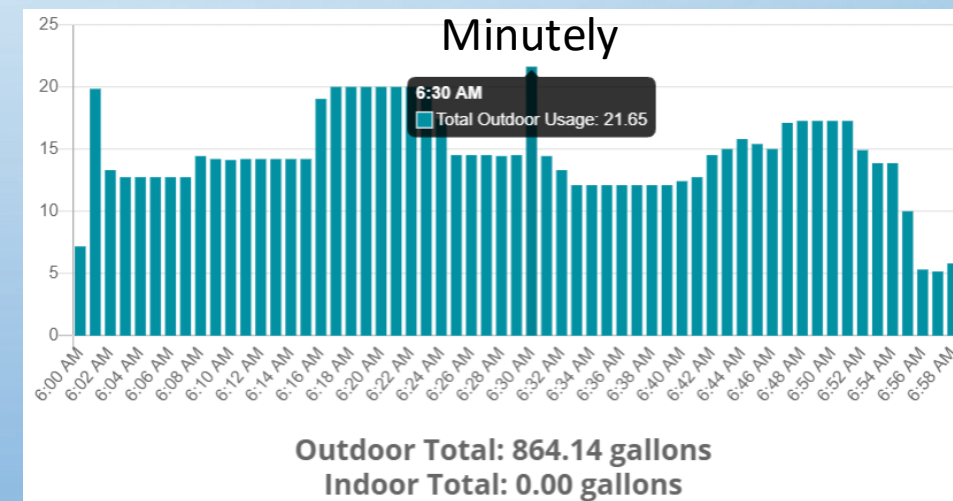
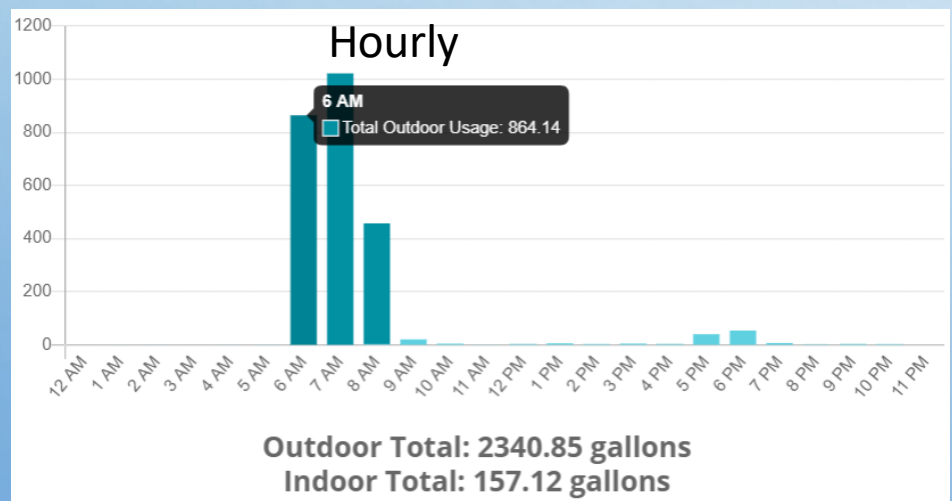
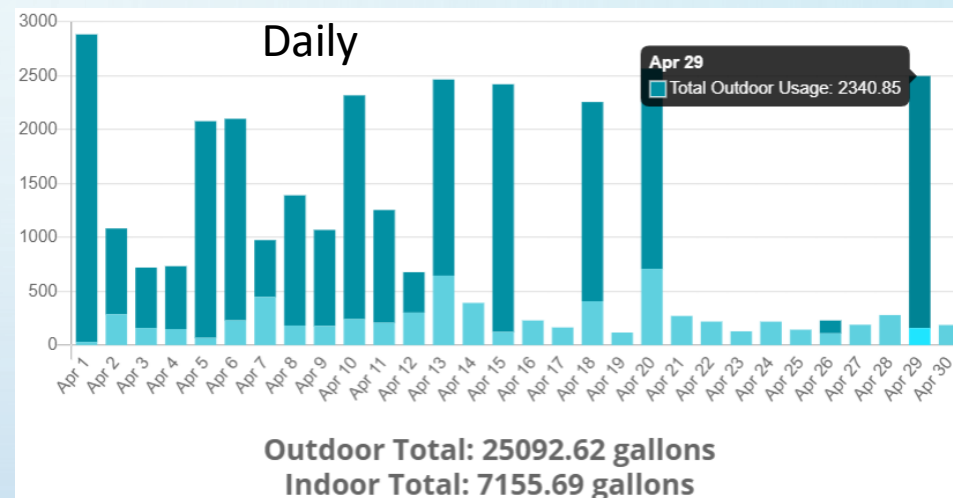
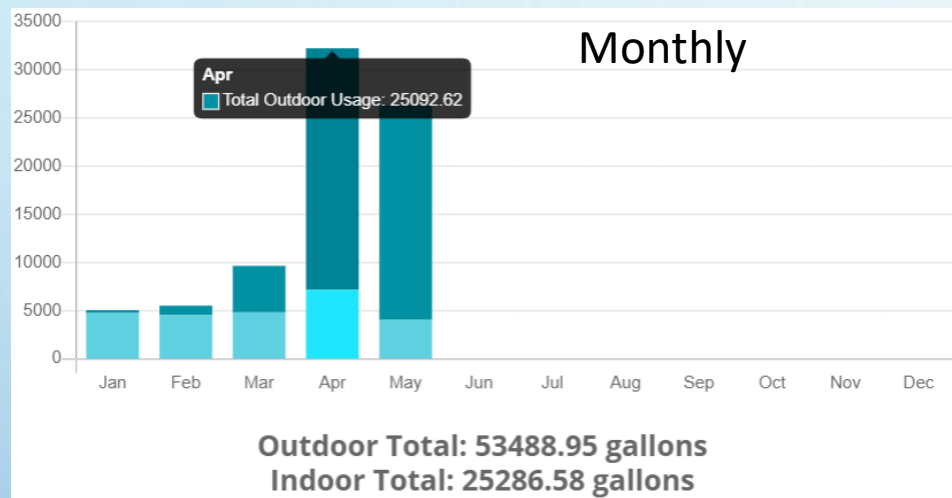
Pipes & Fixtures

Look for wet spots near your faucets, showerheads, and water heater, and behind appliances.

Flowmeter Types



EXAMPLE FLOWMETER PORTAL



Customized Water Budgets



Recommended Water Budget Single Family

Thank you for participating in our Single Family Water Budget Program. The following is your customized water usage profiles for the last two years. The graphical description compares your measured water usage versus your budgeted water usage for each billing period. The purpose of the budget report is to show customers how efficiently water is being used inside and outside the home.

Customer Name:

Service Address:

City:

Account #:

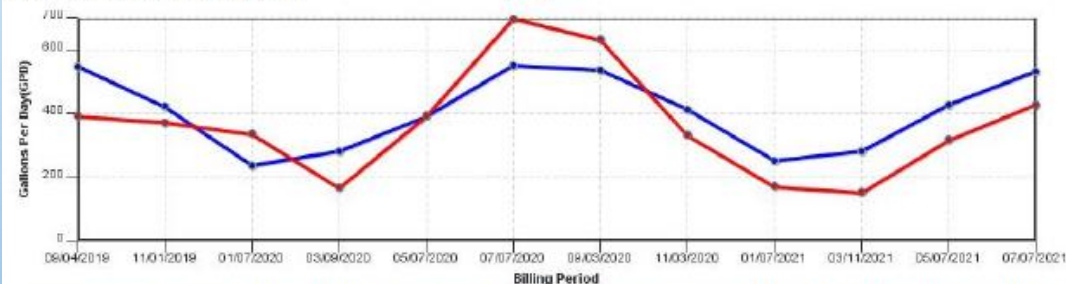
Meter #:

Est. Irrigated Area(sq. ft): 3875

Household occupants 4

Base Household use 160

Water Budget Summary	Used	Budgeted
Gallons used last 12 months	121,924	147,326
Gallons used previous year	144,364	148,198
Percent of budget last 12 months		83%
Percent of budget for previous year		97%
2 years estimated savings in gallons:		29,236



Billing Period	09/04/19	11/01/19	01/07/20	03/09/20	05/07/20	07/07/20	09/03/20	11/03/20	01/07/21	03/11/21	05/07/21	07/07/21
Budget(GPD)	549	423	238	284	391	550	538	413	250	281	428	533
Consumption(GPD)	392	374	335	169	393	699	632	331	173	154	315	429
Evapotranspiration(ET)	12.28	7.88	2.72	3.98	7.05	12.23	11.36	7.98	3.04	3.94	7.91	11.79

EBMUD estimates the average indoor water use per person with high efficiency fixtures at 40 gpd (gallons per day).

Evapotranspiration (ETo) represents the estimated water need of cool season grass (in inches) for each billing period. The Water Budget Calculation does not use rain, typically irrigation systems can be turned off for the winter months of November, December, January, and February.

The Maximum Allowable Water Budget for landscaping, effective January 2010, is calculated using 80% of ETo for the irrigated area of landscaping. If you feel the irrigated area is not accurate or would like more information on this program, contact EBMUD at (510) 287-1900.

Social Media Outreach

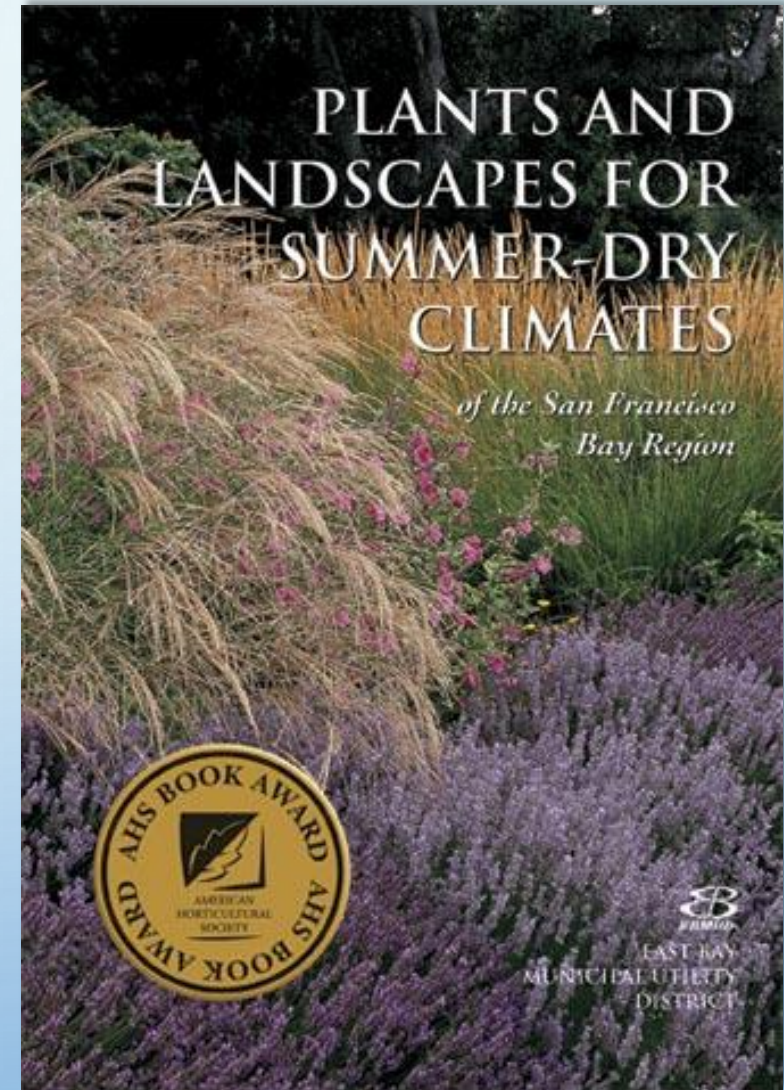


- 973 impressions earned for #WaterWednesday post on Twitter; 681 impressions earned on Facebook



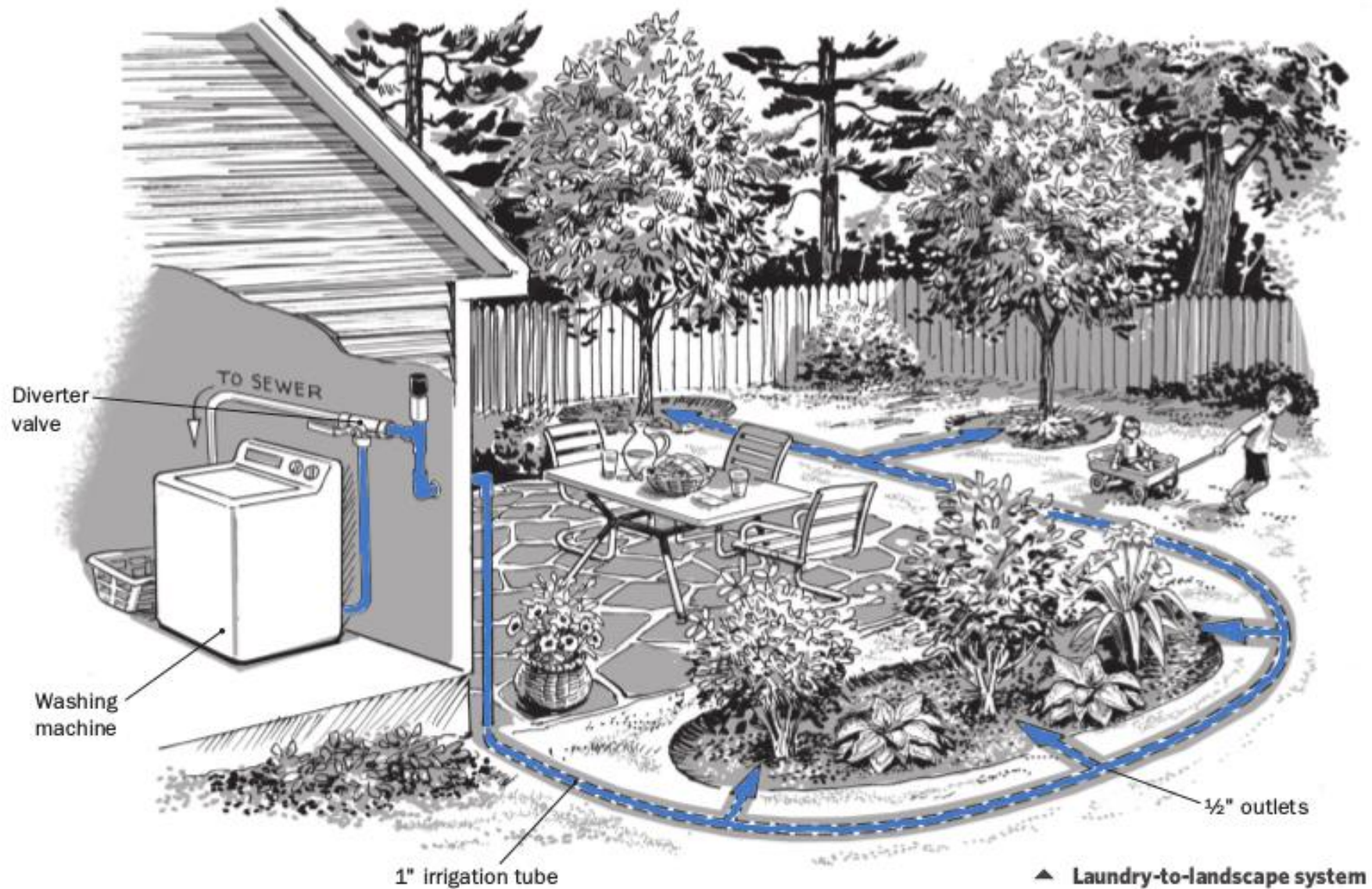
PLANT RESOURCES

- EBMUD PLANT BOOK SUMMER-DRY.COM OR ORDER
ONLINE AT EBMUD.COM/STORE
- EBMUD LOW WATER USE PLANT LIST
EBMUD.COM/PLANTS
- UC DAVIS ALL STAR PLANT LIST
ARBORETUM.UCDAVIS.EDU/ARBORETUM-ALL-STAR
- WUCOLS DATABASE UCANR.EDU/SITES/WUCOLS
- CALSCAPE CALSCAPE.ORG
- FIRESCAPE BOOKLET EBMUD.COM/FIRESCAPE



LAUNDRY TO LANDSCAPE

EBMUD.COM/GRAYWATER



©Steve Sanford from The Water-Wise Home

ASK A WATER CONSERVATION EXPERT!

GOT A QUESTION? TYPE YOUR QUESTION IN THE CHAT



- **LEARN MORE:**

- EBMUD.COM/WATERSMART
- EBMUD.COM/WATERWEDNESDAY
- EBMUD.COM/DROUGHT

- **CONTACT US:**

- FOR WATER WEDNESDAY INQUIRIES:
WATERWEDNESDAY@EBMUD.COM
- FOR WATER CONSERVATION:
WATERCONSERVATION@EBMUD.COM