

EBMUD Landscape Advisory Committee General Meeting

with a special presentation on Water Conservation for the Next Decade

Feb 28, 2022

WATER CONSERVATION STRATEGIC PLAN 2021

EAST BAY MUNICIPAL UTILITY DISTRICT



Kristin Bowman and Jolene Bertetto EBM UD Water Conservation Representatives

Alice Towey, EBM UD Water Conservation Manager

Upcoming Events



MWELO Plan Check (ReScape) March 1, 8:30am-1:30pm

Firescaping Qualification Training (ReScape) March 10-11, 9am-1pm

Spring Garden Maintenance Practices/Mantenimiento del jardín en la primavera March 24, 1pm-2pm (English with Spanish interpretation - ebmud.com/watersmart)

Water-Wise Landscape Design and Plant Selection (CCWD) Weds. Mar. 30, 10am

Sheet Mulching, Compost and Mulch Selection/Consejos y trucos para cubiertas de mantillo April 14, 1pm-2pm (English with Spanish interpretation - ebmud.com/watersmart)

Bring Back the Natives Tour April 16-17 (virtual), April 30-May 1 (in-person)

Ruth Bancroft Garden Tour April 23, 9am-4pm

Drip Irrigation 101 (CCWD) Weds. Apr 27, 10am

HOA and Multifamily Landscape Rebate Virtual Office Hour

May 19, 12-1pm (ebmud.com/watersmart)









California Water Supply Automated Sensor Snow Water Equivalents





% of April 1 Average / % of Normal for This Date

Statewide Average: 55% / 66%

Water Production





Monthly Comparison FY22/FY21



	Gross Water Production (mgd) to Date											
	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22
Actual	193	193	187	158	126	122	123	139	-	-	-	-
WOH FY2022	125	126	124	113	99	97	98	105	-	-	-	-
EOH FY2022	68	67	63	45	27	25	25	34	-	-	-	-
Last Yr	210	211	200	185	153	135	126	126	136	165	182	192
WHO FY2021	137	137	133	125	112	104	99	99	103	115	123	127
EOH FY2021	73	74	67	60	41	31	27	27	33	50	59	65
% Change	-8%	-9%	-6%	-15%	-18%	-10%	-2%	10%	, -	-	-	-

*Italicized numbers for the current month indicate a to-date comparison with previous year, otherwise previous year data are totals



Total System Storage WY2022



Supplemental Water Supply



- Record dry January and February to date
- Runoff forecasts adjusted to account for lower soil moisture
- Freeport operations restarted February 8, 2022
- Diversion totals through February 17:
 - 23,300 AF diverted of 35,250 AF allocated by US Bureau of Reclamation
 - 2,310 AF diverted since restart



Freeport Intake Facility

- Contract Year 2022 CVP supply pending
- Imports will be re-suspended if hydrology improves





Water Conservation Strategic Plan 2021

Agenda



WATER CONSERVATION STRATEGIC PLAN 2021

EAST BAY MUNICIPAL UTILITY DISTRICT



- Program background, drivers, and goals
- Program elements
 - Water Management Services
 - Incentives & Rebates
 - Education & Outreach
 - Regulation & Legislation
 - Supply Side Conservation
 - Research & Development
- Implementation
- The LAC connection

Background





From the Snowflake to the Bay





EBMUD's Long-Term Water Supply Planning





EBMUD Water Conservation Program











STEPS TO RECEIVE A REBATE

- Review EBMUD approved fixture list.
- Purchase and install your new toilet(s). Toilets must replace existing toilets using more than 1.6 gallons per flush. No rebates are given for new construction.
- 3. Fill out the application below. ALL INFORMATION MUST BE PROVIDED.
- 4. Return completed application and original legible purchase receipt to: EBMUD, P.O. Box 24055, MS 48, Oakland, CA 94623. If you need your original receipar returned, place enclose a self-addressed stamped envelope.









Future Program Drivers











Making Water Conservation a California Way of Life Implementing Executive Order B-37-16











East Bay Municipal Utility District @ebmud

Garden for the *** * ***! This fall, start a California native garden and bring nature to your doorstep. Find native plant sales, nurseries and resources at bit.ly/naturehood1. #fallplantingseason #naturehoodgardening



4:44 PM · Nov 9, 2020 · Twitter Web App

1 Retweet 4 Likes

Regulatory Requirements



Water Use Objectives:



Annual Water Use Objectives





District Strategies Improving Resiliency Water Conservation - Looking Forward



Water Conservation Forecasts



District Strategies Improving Resiliency Water Conservation - Master Plan (2021 Update)





Water Management Services





Water Management Services: Empowering Customers







Volume 12, 2020



Water Management Services: IRIS Water Budgets



- Customized monthly water budgets for large irrigation accounts
- Includes local weather data, parcel information
- EBMUD is planning to modernize this system and expand to residential customers

EAST BAY MUNICIPAL UTILITY DISTRICT

water

Maximum Allowable Water Budget

Thank you for participating in our Landscape Irrigation Water Budget Program. The following is your customized water usage profile for the past two years. ERMUD records indicate that this account primatily serves landscape irrigation. The graph compares your measured water usage to your budgeted water usage for each billing period.

Gaidens of Watertown HDA						
1000 Winding Ct.						
Watertown						
123456789000						
12345678						
62,839	62,839					
Water Budget Summary						
Gallors used last 12 months.						
Gallons used previous year						
	1000 W Witerts 123456 123456 62,839 mary months	1000 Winding Ct. Watertown 123456789000 12345678 62,839 mary Used months 1,050,940				



1.12

Congratulations-meeting your water budget saved you \$3,682.



*CT-Represents the estimated varies need of cool secon grass (in technil tor each billing period. The Water Budget Calculation does not use care, typically singular in systems can be turned off for the water markle of Noteenberg Consoling. Duranget and Followary. The Maximum Networks Network Rudget, effective Jesuary 2011, is calculated using SNV-of Network Calculation (STeV Enth In the Rudget of established behaviors in the new Model (Stream) and an another the first of California, Department of Initiate Network (SWV), if yea feel the impact device in net accurate (SWV), if yea feel the instance of the California, comparison (SWV), if yea feel the impact device or vesible (SW). If yea feel the impact device or vesible (SW), if yea interview of the impact device of the California (SWV), if SWV (SWV), if yea feel the impact device or vesible (SWV). If yea interview of the impact device of the California (SWV), if SWV (SWV), if



1.27 5.48 10.45

14.1 16-85

1.04

212 8.68 9.6 12.85 12.25

Evapotranspiration/ET

Water Management Services: New Tools and Technology







excessively damp

areas

Key Takeaway New technology gives us better tools to help customers save water.

water heater, and

behind appliances.

Rebates & Incentives



- Some rebates "sunsetted" due to market saturation
- · Commercial & multifamily
- Current focus is outdoor water use



New: flowmeter rebate

Key Takeaways

Incentives and rebates continue to be important, but they may look different than they did ten years ago.

New focus on improving landscape designs for lasting savings.

Rebates & Incentives: Landscape Rebate Components





- Lawn replacement
- Efficient irrigation
 - Drip conversion
 - High efficiency nozzles
 - Smart controllers
 - \circ Pressure regulators
 - \odot Irrigation submeters

Rebates & Incentives: Super Rebate & Median Rebate





Super Rebate



Medians

Adopt these best practices:

- Sheet mulching
- Use of compost
- Native plants
- Planting in the cool season

Double the standard rebate for strips of turf surrounded by hardscape

Perfect for HOAs, Cities, commercial properties

Rebates & Incentives: Flowmeter & Graywater Rebates







Laundry-to-Landscape System



©Steve Sanford in Greywater, Greenlandscape by Laura Allen



Rebates & Incentives: Designed With Equity in Mind





Coordination with CAP Program



FlumeCares Partnership



PG&E Water-Energy Coordination Program



Leak Repair/Assistance Program

Education & Outreach









Key Takeaway Updating materials and using new platforms to reach customers.

Education & Outreach Webinars Series and Office Hours

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1 East Bay Municipal Utility District Retwooted



StopWaste 🔇

California climate. Join @ebmud for a zoom office hour chat on Sept. 22 to answer all of your questions about converting your lawn into a beautiful garden using compost, including rebates to save you \$. bit.ly/3nChMfe



2:35 PM - Sep 16, 2021 - Sprout Social

3 Retweets 6 Likes



Ask a landscaping EXPERT

Education & Outreach: Demonstration Gardens





Education & Outreach: Advertising and Marketing



Just a sip, please

ebmud.com/drought





Regulations & Legislation



- State and Federal Efficiency Regulations
- State Long-Term Framework and SB 555
- District Water Service Regulations
 - Section 31 Reviews of Applications for New Service





Supply Side Conservation

ЕВМИД

- Pressure management
- Active leak detection
- Speed and quality of repairs
- Infrastructure management







Research & Development







Research & Development: Current Focus on AMI





Key Takeaway Better data = better tools and more water savings.

Implementation





Marketing and Outreach





Partnerships

3



Grant Funding





Technology

The LAC Connection





You Are a Key Partner!

- Changing paradigms
- Forum for networking, peer to peer discussions
- Professional development
- Education and outreach









Program Development



- Feedback on EBMUD programs and rebates
- Development of new tools, materials, and resources
- Innovation and testing new technology
- ...other?







Questions, thoughts, ideas?