



Drought Update

August 17, 2021

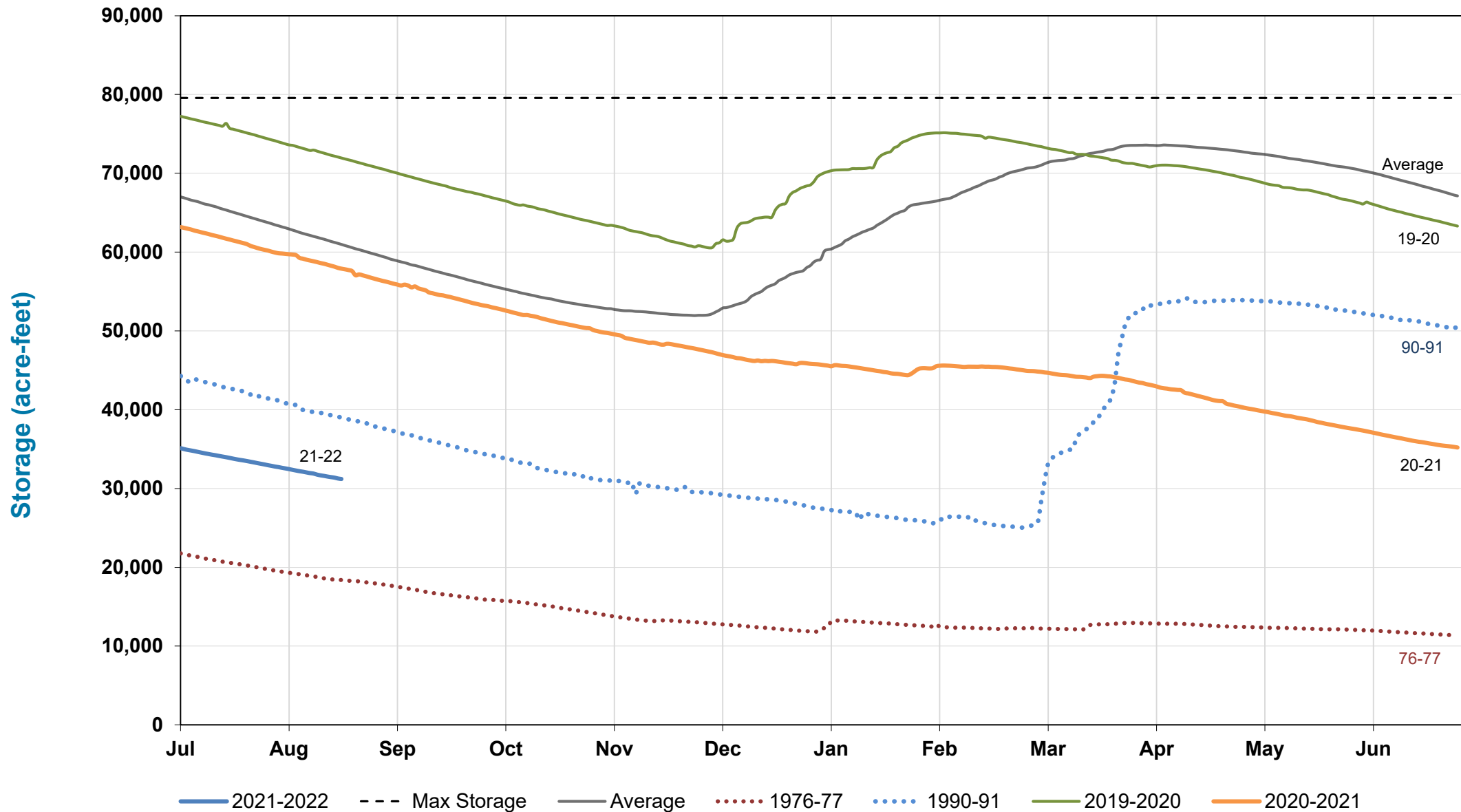


Overview

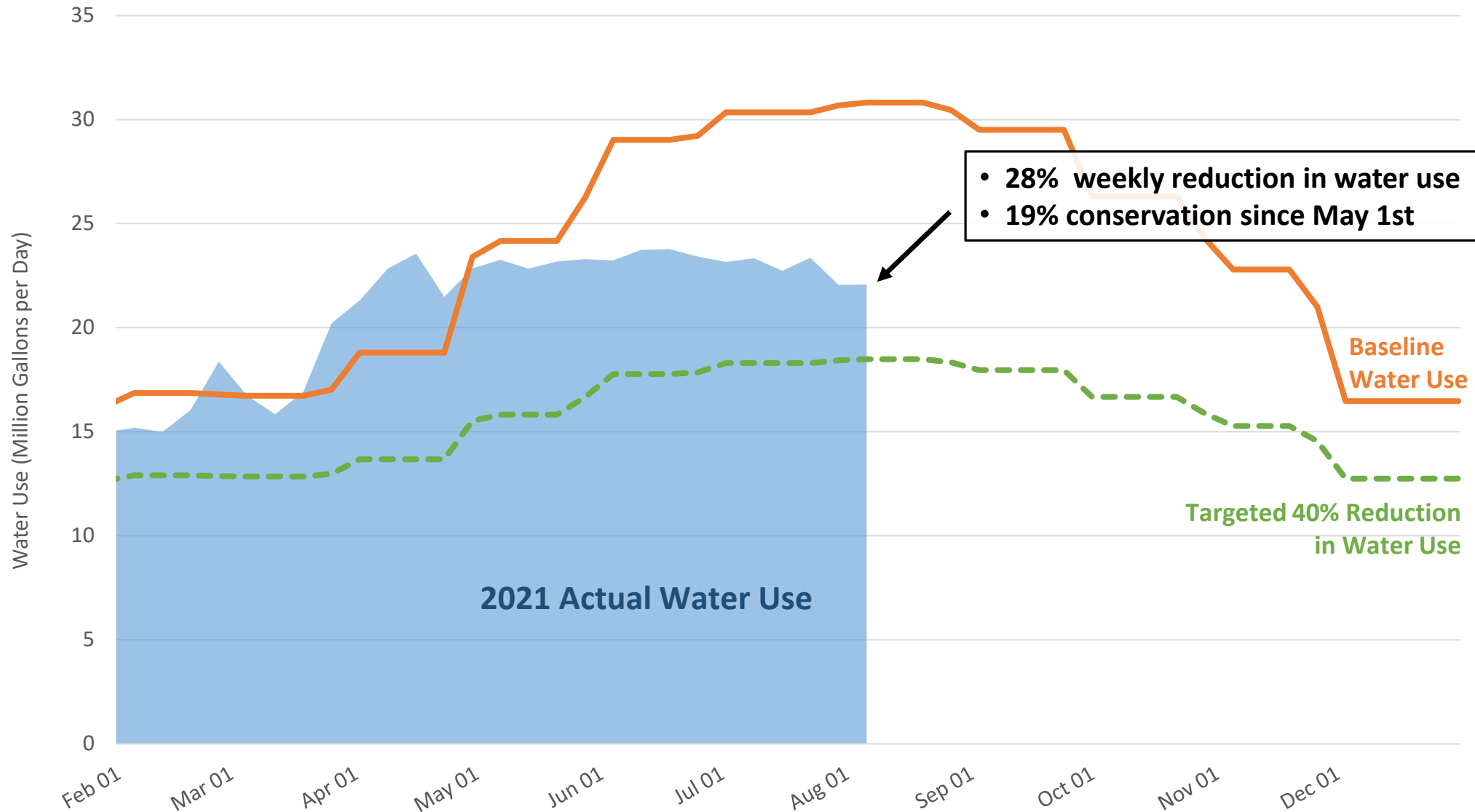
- Water Supply and Water Use
- Drought Activities and Outreach
- Conservation Update
- Emergency Intertie Project Update
- Next Steps

Water Supply and Water Use

Total Reservoir Storage

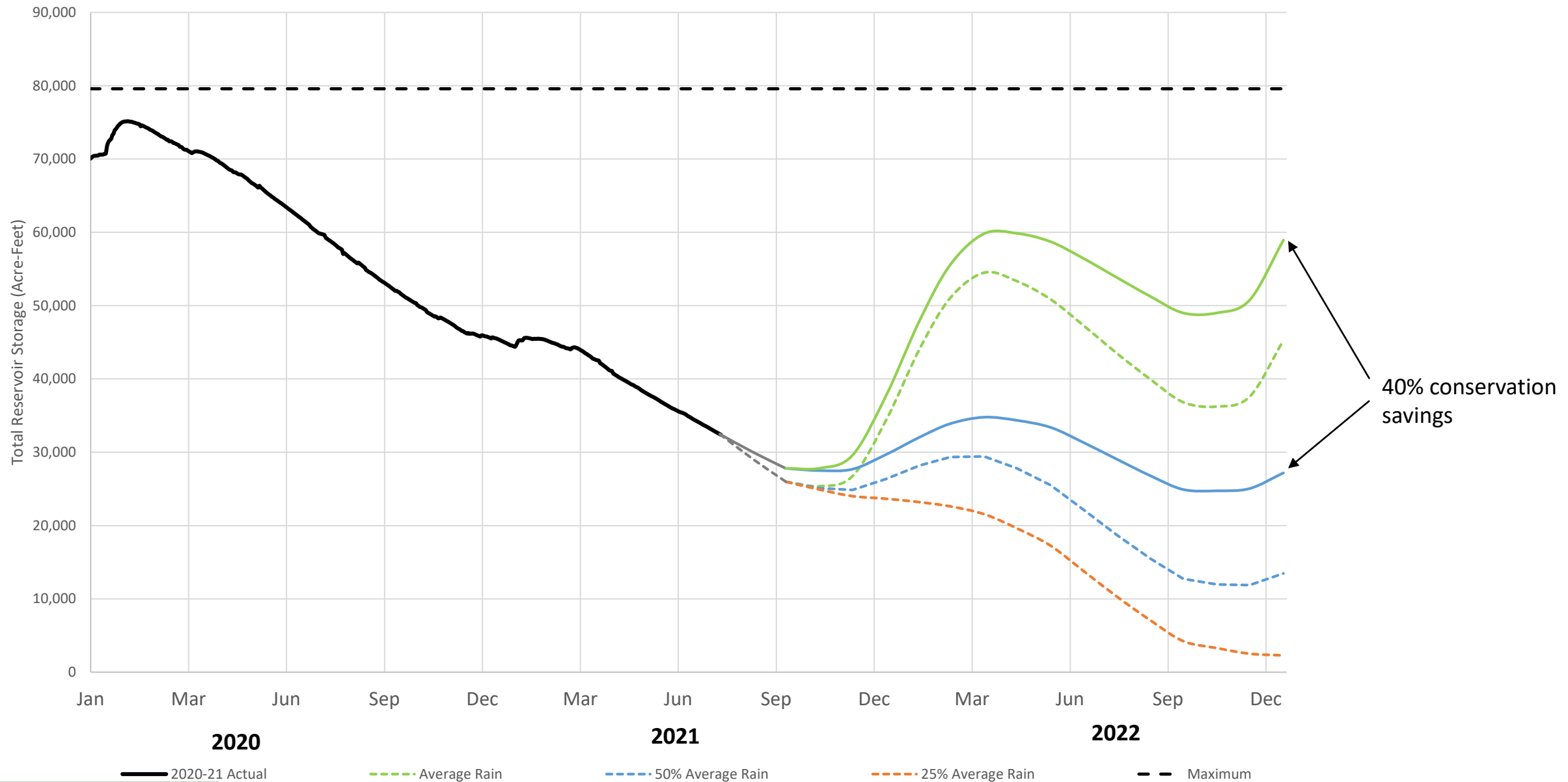


Actual vs. Targeted Water Use



*Baseline = 3-year average

Projected Reservoir Storage



Drought Activities and Outreach

Drought Activities: Water Supply Initiatives



- Conservation
- SoulaJule Reservoir



- Recycled Water
 - Residential Recycled Water Fill Station

Soft Opening of Residential Recycled Water Pick-up Station

Community Engagement & Outreach

■ Stakeholder presentations

- More than 50 presentations: city and town councils; homeowners' groups; chambers; rotaries; businesses, etc.
- Looking for outdoor events to table: farmers markets, festivals, etc.



Upcoming Presentations

- 8/31: Sausalito City Council
- 9/1: Fairfax Town Council
- 9/7: Corte Madera Town Council
- 9/15: Mill Valley Outdoor Art Club

Recently Completed

- 8/10: Smith Ranch Retirement Home
- 7/29: Marin County City Managers Meeting
- 7/20: Belvedere-Tiburon Joint Disaster Advisory Council
- 7/13: Autodesk

Community Engagement & Outreach

■ Customer Newsletter

- Prominently features drought information and water use restrictions.
- Provides resources for rebates, water supply updates and how to report water waste.

FREE WATER-EFFICIENT FIXTURES

Stop by our customer service lobby at 220 Nellen Avenue, Corte Madera CA 94925 to pick up your free water-efficient fixtures. We have kitchen and bathroom sink aerators, low-flow shower heads, leak detection dye tablets, and shower timers. Small changes to your daily routine can amount to big water savings.



In a severe drought,
every drop counts.

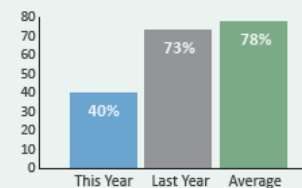
Learn more:
MarinWater.org/Conserve

Every Drop Counts – Report Water Waste

If you see water waste, please let us know. You can report it using our online form at MarinWater.org/forms/water-waste-report, email Conservation@MarinWater.org, or call 415.945.1523.

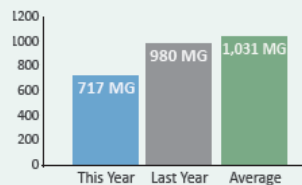
Reservoir Storage

% of total storage capacity as of 08/12/21



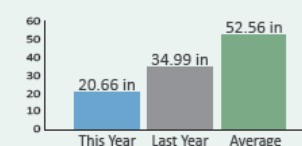
Water Usage

Total July water usage
(MG = millions of gallons)



Rainfall Information

Total inches of rainfall, 07/01/20 to 07/01/21



September/October 2021

SEVERE DROUGHT: SAVE WATER WITH US

We are facing a historic drought. The last two years have been some of the driest in decades, and the last 18 months have had the lowest rainfall levels recorded in more than 140 years. Our storage levels in mid-August are below 40 percent, when we typically see levels of more than 75 percent for this time of year.

We need everyone to save as much water as possible. Over the past six months, the water district has sent several mailers to everyone in the district highlighting water-use restrictions and the need for all of us to save as much water as possible. Alongside our conservation efforts, the district has been pursuing additional options to increase our overall supply. You can learn more about the drought and how you can save water by visiting our website at MarinWater.org/Conserve.

We're here to help. Marin Water offers rebates and programs to help you save water, and money. Included in your bill this month is a brochure highlighting those rebates. You can also visit our website at MarinWater.org/Rebates or contact our water efficiency team at Rebates@MarinWater.org or at 415.945.1527.

To help preserve our limited supply, Marin Water's board adopted mandatory water use restrictions for all customers. Some important restrictions include:

- Spray irrigation is limited to one day a week. Each community has a designated watering day (see the chart below for your watering day).
- Drip irrigation is limited to any two days a week.
- We recommend turning off your irrigation system and spot watering by hand, only when necessary. Spot watering can be done on any day of the week.
- Outdoor watering is prohibited between 9 a.m. and 7 p.m. to reduce evaporation.
- Do not wash vehicles at home. Use a carwash that recycles water instead.
- Do not power wash homes or businesses.
- Do not wash driveways or sidewalks.
- Do not water grass on public medians.
- Garden hoses must have a shutoff nozzle. You can contact us for free water-efficient fixtures.

For the full list of restrictions please visit MarinWater.org/WaterRules or contact us at CustomerService@MarinWater.org. You can also call us at 415.945.1455.

NEW WEEKLY WATERING SCHEDULE

Find your weekly watering day below:

Monday	Tuesday	Wednesday	Thursday	Friday	Weekends
<ul style="list-style-type: none">• Ross• Tiburon• Belvedere• San Geronimo• Forest Knolls• Lagunitas	<ul style="list-style-type: none">• San Rafael• All other unincorporated areas in Marin County	<ul style="list-style-type: none">• San Quentin• San Anselmo• Sausalito• Corte Madera	<ul style="list-style-type: none">• Mill Valley	<ul style="list-style-type: none">• Woodacre• Larkspur• Fairfax• Greenbrae• Kentfield	<ul style="list-style-type: none">• No spray irrigation

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Community Engagement & Outreach

■ Special Rebate Insert



We are in a severe drought.

Save water with help from our rebates. Every drop counts.

Cash for Grass



Now is the time to replace your thirsty lawn. We're offering \$3 per-square-foot of lawn removed through October 2021. We also offer a free sheet mulching program.

Graywater

Reuse water from your washing machine for your garden with a laundry-to-landscape graywater kit. We partnered with The Urban Farmer Store to offer a \$100 discount.

Pool and Spa Covers

An uncovered pool will lose water due to evaporation. Marin Water offers a rebate of up to \$100 for customers who purchase and install pool or spa covers.

Flume Flow Meter



Install a Flume flow meter to access real-time water use data on your phone or computer. It's easy to install and straps on to most existing water meters. It can help you find leaks and new ways to save water.

Hot Water Recirculator

To reduce water waste while you wait for the water to warm up, we recommend installing a hot water recirculating system. The district offers a \$50 rebate to help offset the cost of the system.

Clothes Washer Rebate

Replacing your older clothes washer with a new high-efficiency model is an easy way to save money and conserve water. You may qualify for a rebate of up to \$100.

For water-saving tips, water-efficient fixtures, and additional resources visit:
MarinWater.org/Conserve




Offers & Rebates

Save Water Save Money


Para información en Español
Info@MarinWater.org
415.945.1523

MarinWater.org/Rebates



Is Your Garden Rain Ready?

Rain Barrels and Cisterns



Rainwater harvesting is the practice of collecting rainwater from rooftops and storing it for later use. We are offering up to 50 cents per gallon of storage. Up to \$1,000 per site.


We're Here to Help

Not sure which program will work for you? We provide free phone consultations to help you find the conservation programs and rebates that best suit your needs. We also offer free water-efficient fixtures including hose shutoff nozzles, faucet aerators, showerheads, shower timers, and leak detection dye tablets.

Call us at [415.945.1527](tel:415.945.1527) or send us an email at Rebates@MarinWater.org to request fixtures or schedule a consultation.

Questions?

Email us:
Rebates@MarinWater.org
Call:
415.945.1527
Visit:
MarinWater.org/Rebates



Community Engagement & Outreach

➤ Up Next

- Recycled Water Fill Station
- Drought Drive Up: Saturday, August 21
- Phase two ad campaign



Drought Drive Up

August 21st

Get your FREE water-saving kit at the Drought Drive Up. Walk up or drive to our Corte Madera office on Saturday August 21st.

From:
8 a.m. to 12:00 p.m.

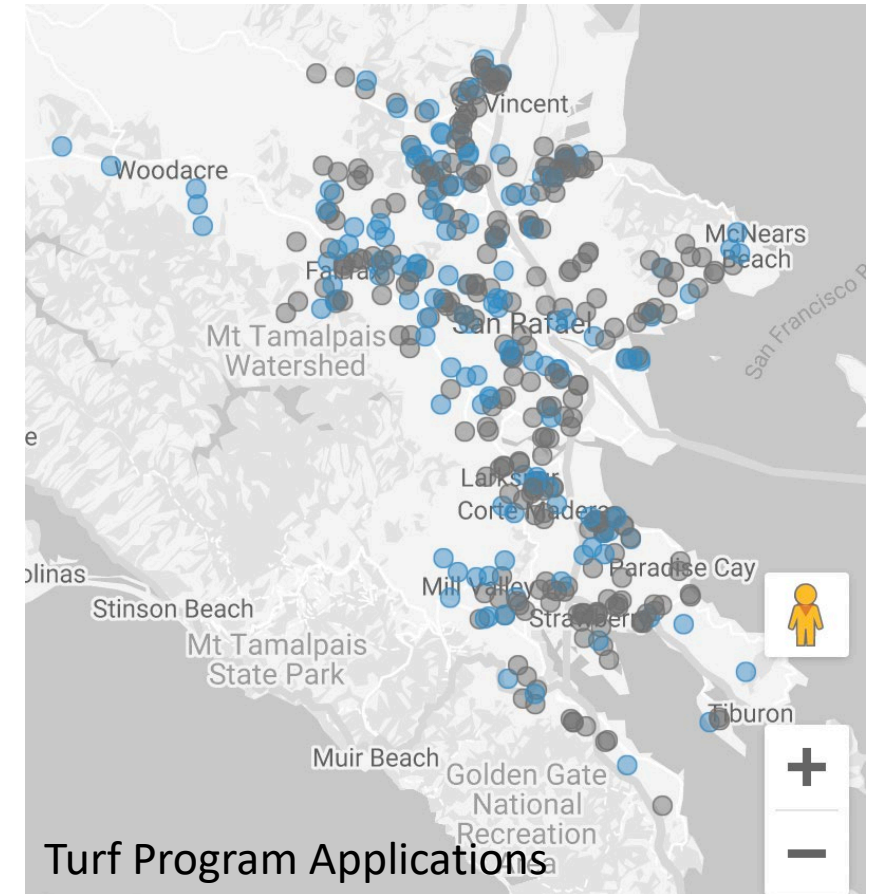
Location:
220 Nellen Ave., Corte Madera

Conservation Update

Drought Program Participation – August Update

	June	July	August*	Monthly Target
Turf Programs (sqft)	33,600	86,000	15,947	400,000
Flume Devices	618	473	201	450
Clothes Washers	62	24	7	20
Rain Barrel/ Cisterns	7	4	4	10
Pool Covers	25	89	35	10
Hot Water Recirculation Systems	3	22	9	5
Graywater Incentives	4	12	0	10

**Through Aug 16th*



Contacts with Customers

- Water Waste Reports
 - Online form
 - Water Waste Hotline
 - Door tags
- Conservation calls/emails continue to increase

	Feb	Mar	Apr	May	June	July	Aug*
Calls/ Emails	128	373	907	1,220	1,911	1,186	659
Water Waste Reports	5	13	104	203	253	1,055	889

**Through Aug 16th*



Boots on the Ground

Gym Outreach: 100% complete


- 42 gyms visited, materials delivered
- 10 either closed or not interested

Hotels Outreach: 100% complete

- 28 received materials
- 7 not interested in our materials

Restaurant Outreach: 40% complete

- 97 visited, materials delivered
- 9 not interested in our materials or have their own



The poster features a blue background. On the left is a detailed illustration of a chrome faucet with a single drop of water falling from its spout. To the right of the faucet, the text 'Severe Drought' is written in a large, white, sans-serif font, followed by 'Save Water' in a slightly smaller font of the same style. Below this, in a smaller white font, is the phrase 'Conserve water during your visit.' Further down is the Marin Water logo, which consists of a stylized wave icon and the words 'MARIN WATER' in a small, white, sans-serif font.

Quick Tips:

- Limit showers to less than 5 minutes.
- Turn off the water while brushing your teeth.
- Reuse your linens.

To reuse towels: Hang them back on the towel rack. If you prefer them to be replaced, place them on the floor or in the bathtub.

To reuse bedsheets: Place this card on your bed. Housekeeping will make your bed and not change the sheets.

Customer Support

Landscape Professional 5-part Webinar Series

- Strategies for Survival: Trees, Shrubs and Turf
- 20—40 attendees at each session
- Follow-up session Monday, August 23rd

AMI Eye on Water Accounts

- 4% increase in sign-ups
- Resending sign up instructions to all AMI customers

High Water Users

- Focus Groups
- Survey

MARIN WATER

Marin Water
Free Webinar Series
One Day a Week Irrigation:
Strategies for Survival
Turf, Shrubs and Trees

Marin Water is partnering with the California Center for Urban Horticulture and Jim Borneman to offer five free webinar workshops to learn tips and tricks for maintaining trees, shrubs and lawns under current drought conditions while complying with the landscape irrigation restrictions.

Jim is the former Vice President of Education Services at Ewing Irrigation and Landscape Supply. Jim has been providing irrigation training to landscape professionals across the United States for over 40 years.

Register: MarinWater.org/Webinars

Dates and Topics:

Aug 9	6:30 a.m.	Irrigation System
Aug 10	6:30 a.m.	Trees and Shrubs
Aug 11	6:30 a.m.	Deep Dive on Surface and Drip Irrigation Scheduling
Aug 12	6:30 a.m.	Turf
Aug 13	6:30 a.m.	Alternative Strategies for Turf Survival and Q & A

MARIN WATERUC DAVIS
California Center for
Urban HorticultureUC DAVIS
COLLEGE of AGRICULTURAL
AND ENVIRONMENTAL SCIENCES

**It's every-drop-counts time.**
Save water.
MarinWater.org/Conserve

Emergency Intertie Project Update

Emergency Drought Projects Summary

- ✓ **Conservation** – Continue as top priority, improve, refine and enhance
- ✓ **Sonoma Water** - Collaborate on any and all opportunities to address the drought
- ✓ **Recycled Water** – Residential Fill station, commercial hauling
- ✓ **Water by rail** – Logistics of off-loading and treatment, cost \$163,000/AF
- ✓ **Excavating reservoirs** – 10,000 AF = 16.1 M cubic yards (hoover dam = 4.3M cy)
- ✓ **Ground Water Storage and Recovery** – longer term opportunity, no near term solution for drought
- ✓ **Desalination** – timing dictates temporary, capacity limited
- ✓ **Water Transfers / Emergency Intertie** – pursuing feasibility of project

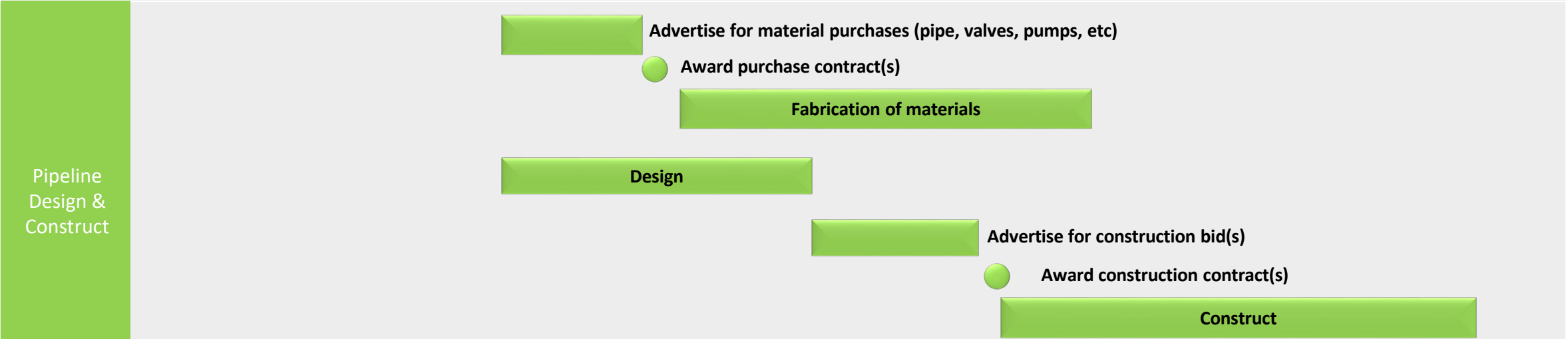
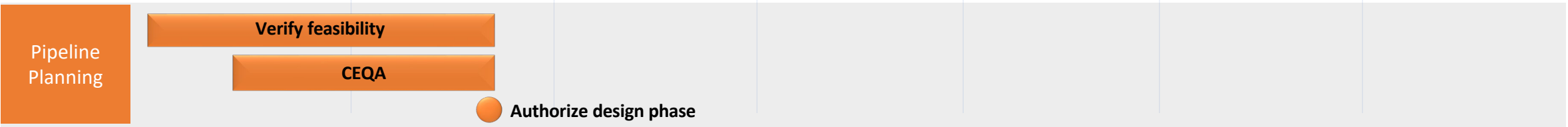
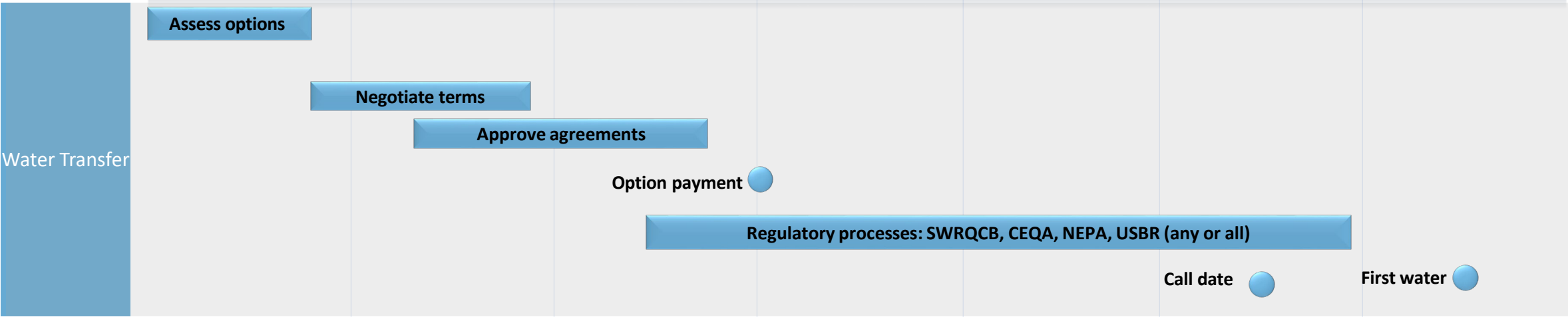
Overall Project Update

- Water Transfers – developing key terms for option and supply agreements
- Drafting wheeling terms/agreements with key Bay Area agencies
- Weekly meetings with CalTrans – PM, Engineering, CEQA etc
- Hydraulic analysis, pipe routing, geometric and structural analysis for various bridge segments
- Operations Planning

2021

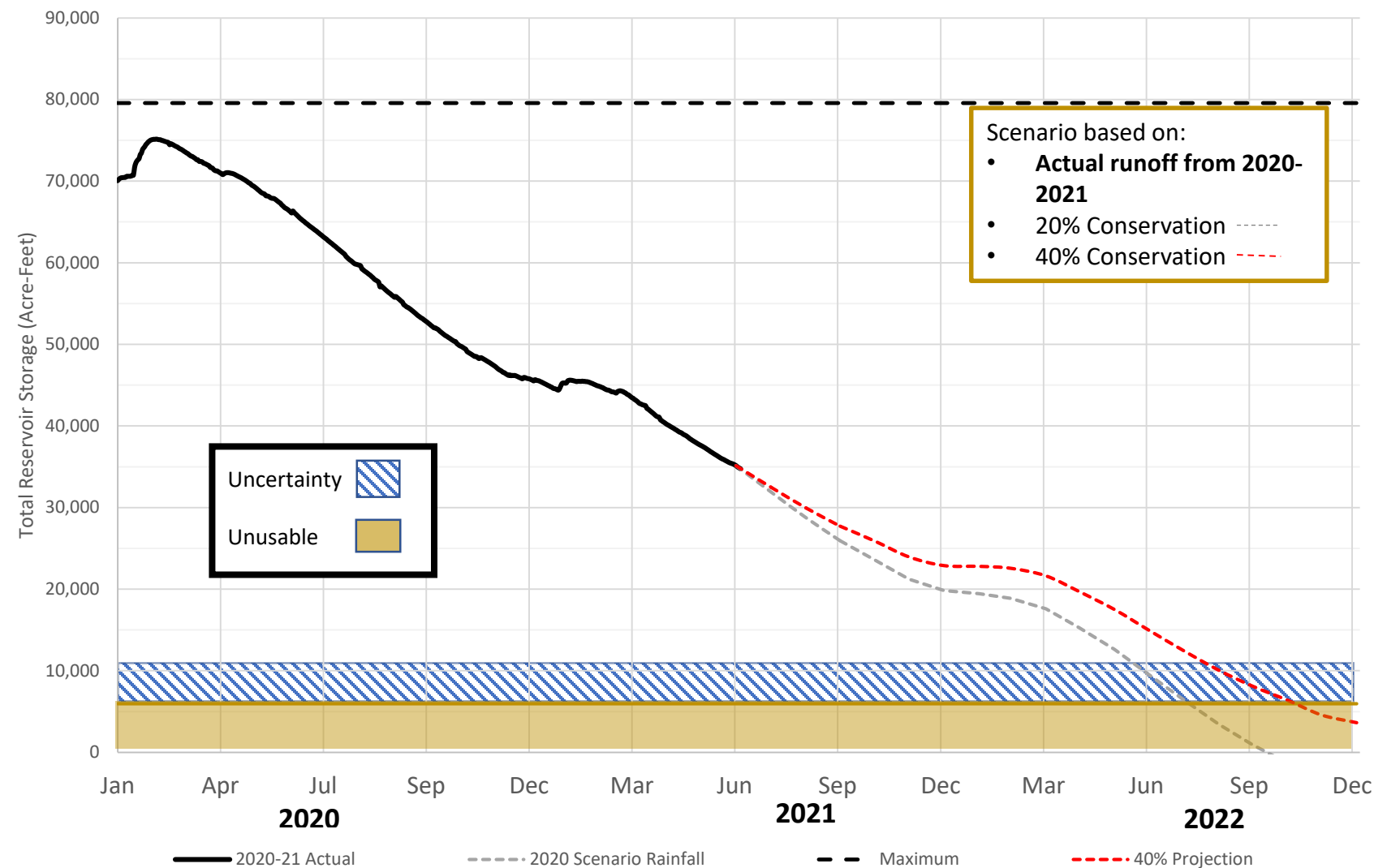
2022

Jun Aug Oct Dec Feb Apr Jun

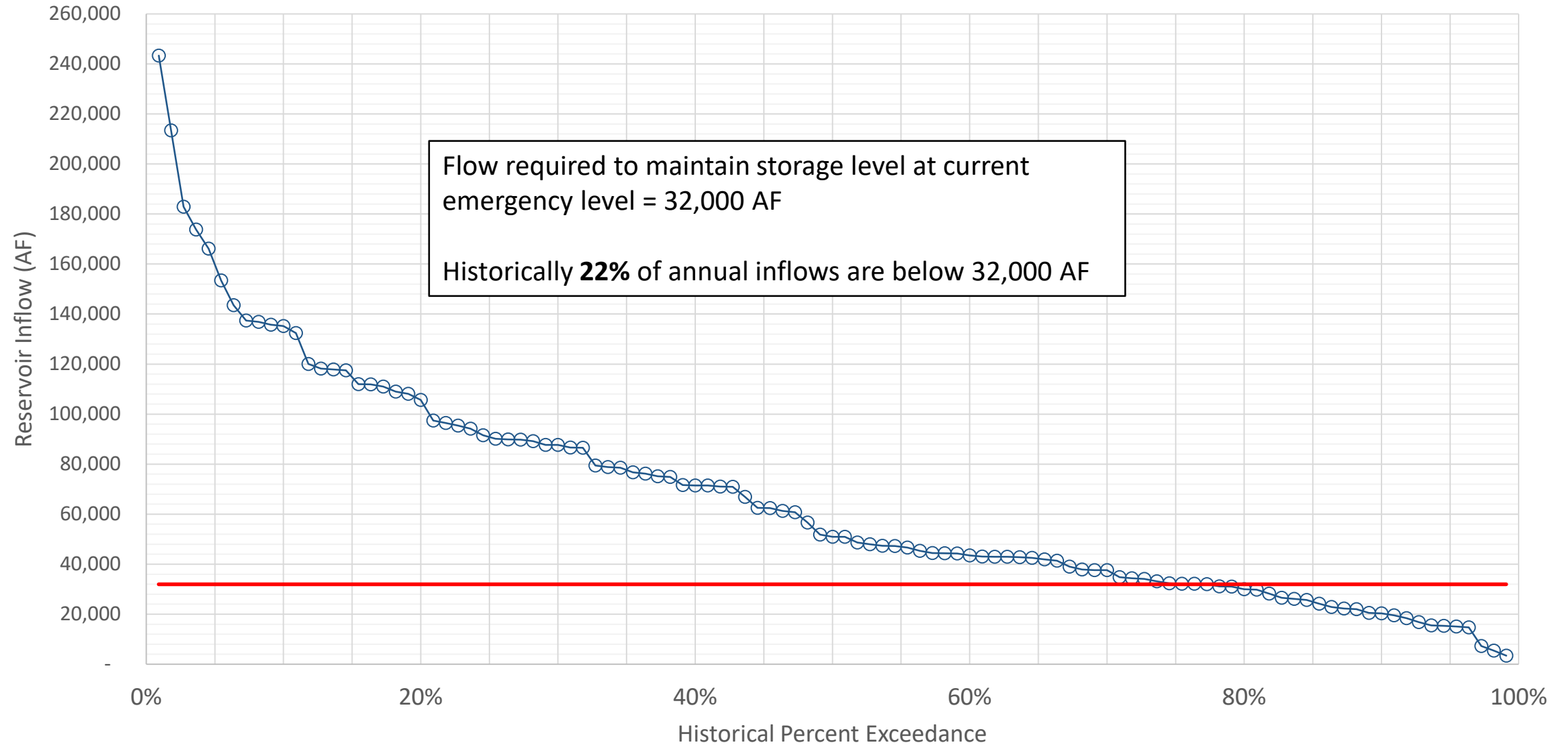


● ● ● *indicates Board decision required*

Drought Project Planning



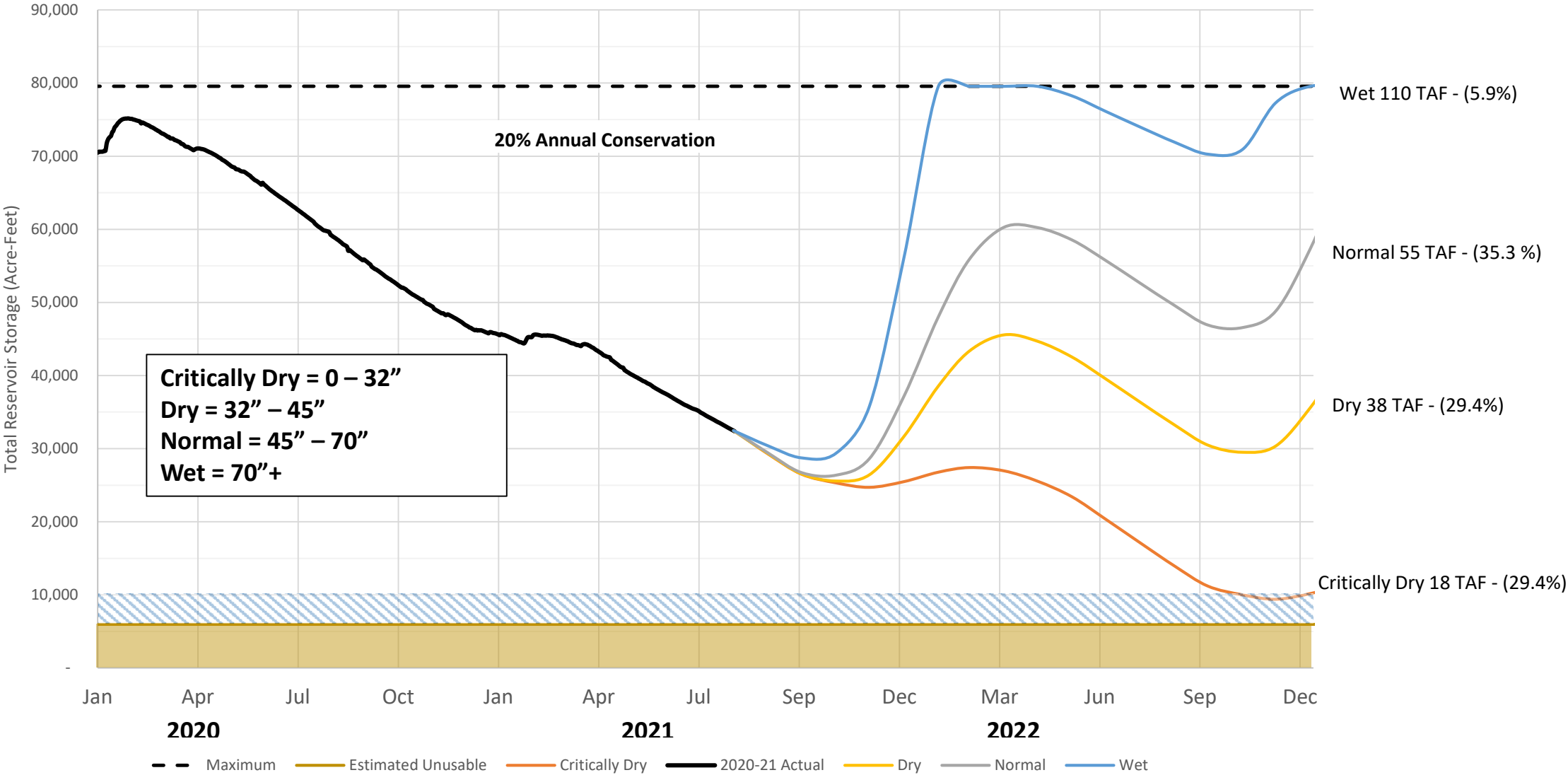
Historical Inflow



Classification of Water Year

Water Year Type	Range	Representative Runoff
Wet	> 70 inches	110 TAF
Normal	45 – 70 inches	55 TAF
Dry	32 – 45 inches	38 TAF
Critically Dry	< 32 inches	18 TAF

Projections based on Water Year Type



Other Schedule Factors

- Water supply
- Multiple agency coordination increases complexity and reduces control over schedule
- Technically challenging elements – Chevron, legacy bridge etc
- Materials lead time -
- Construction – unforeseen issues

Emergency Intertie - Key Milestones

August 30 – Complete feasibility and design to support CEQA – (~\$3M)

September 21 – Authorize full Design – (~\$7M)

October 19 – Pre purchase of material – (~\$15M)

September- November – Various transfer and wheeling agreements

February 2022 – Award Construction – (~\$40M)

Emergency Intertie Project Conceptual Cost

- Capital Cost \$60M - \$90M Water Transfer Project
- Annual cost \$2M to \$5M debt service plus operational costs when in use
- Rate impact = 3% - 4.5% (one time) rate increase
- Grants and low-interests loans

Next Steps

- Continue to refine & enhance drought outreach and Conservation efforts
- Continue operational and water supply projects
- Ongoing monitoring and reporting to the Board status as compared to established conservation goals
- Continue to pursue water transfer options and Emergency Intertie project planning

Severe Drought
Save Water

Learn more at:
MarinWater.org/Conserve

