



Water Efficiency Update

February 16, 2022



Overview

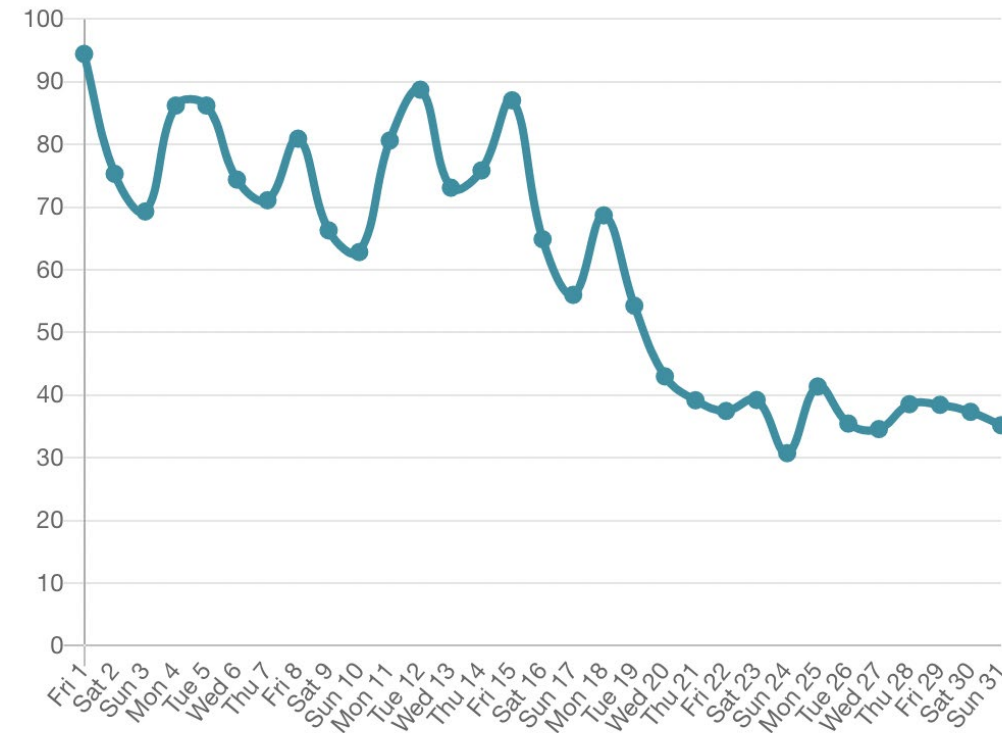
- Review Drought Incentive Programs
- Review Water Use Statistics
- Discuss Long Term Initiatives
- Next Steps

Drought Incentive Programs

Flume Smart Home Water Monitor

GPCD October 2021

- 2,500 devices redeemed, 2,016 installed, 1,973 active
- District contribution
 - 2021: \$115/device
 - 2022: \$75/device
- Participation in the Flume program has:
 - Helped customers identify leaks and understand water use
 - Led to a detailed understanding of water use in service area
 - Played an important role in understanding water use nationally



- 80% installation rate
- Flume customers receive over 200 leak notifications per week

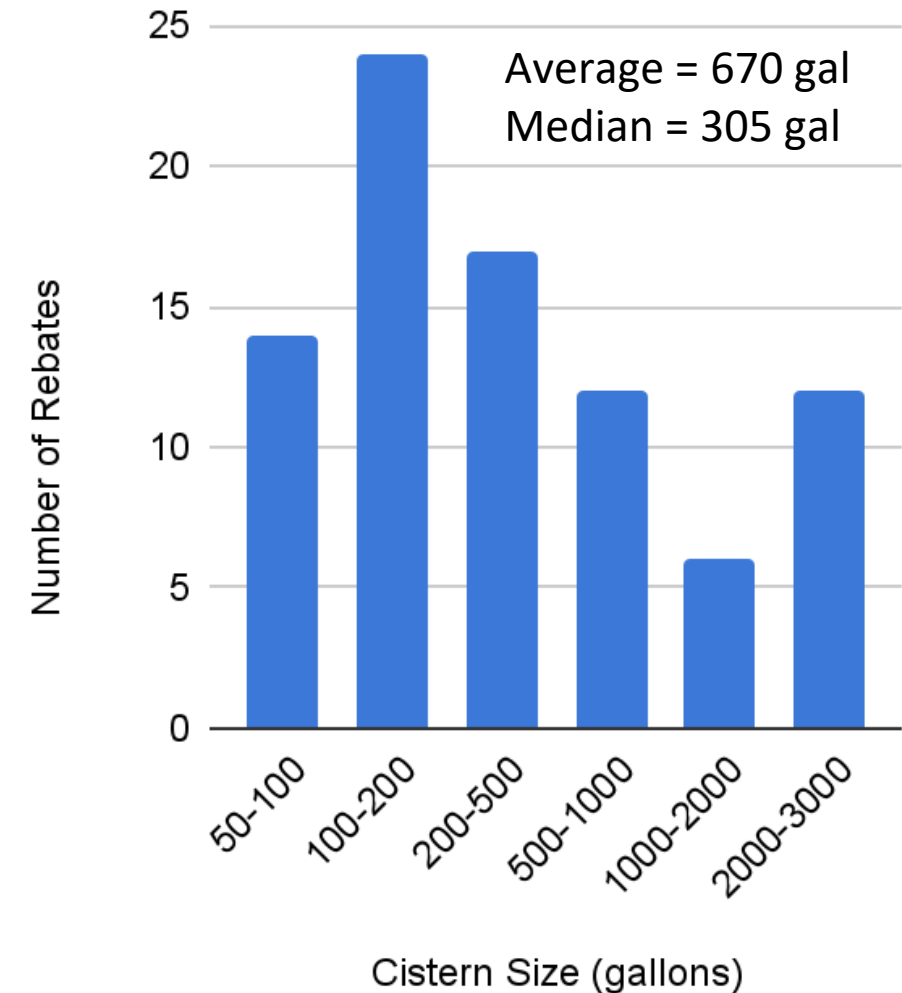
Graywater Laundry-to-Landscape

- Current partnership with The Urban Farmer Store
 - free L2L webinars
 - \$125 discount on L2L kit
- Over 500 customers attended 8 webinars in 2020/21
- 46 kits purchased since inception
- Only 19 customers participated in previous 5-for-\$50 program which rebated L2L parts and ran for several years
- Potential installer trainings through The Urban Farmer Store in 2022

Rainwater Harvesting

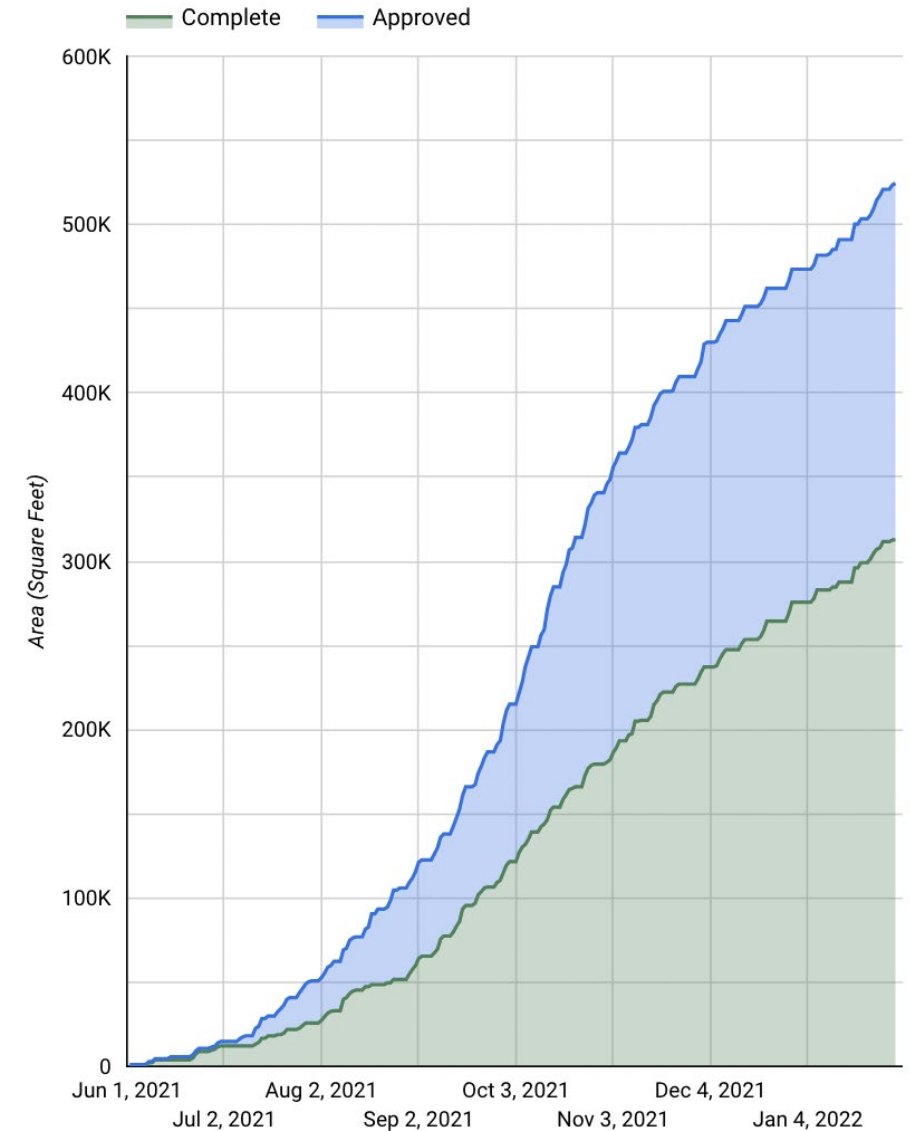
- Increasing level of participation
 - 9 in 2020 since May launch (\$2,567)
 - 48 in 2021 (\$12,421)
 - 22 so far in 2022 (\$8,144)
- Rebate: \$0.50/gal, \$1k max
- Recycled water fill station provides potential opportunity for year-round use of cisterns
- Sonoma Water regional program in development
 - Grant funded
 - Training for professionals and homeowners
 - Regional rebate program
- Evaluate program as Sonoma Water provides regional program details, e.g. increased rebate

Cistern Size



Turf Programs

- 570 customers approved = 527,000 sq ft
- 340 projects complete = 310,000 sq ft
- Focus for 2022 on replanting guidance
- Program changes to reintroduce planting requirement and other BMPs
- Direct install program was popular but time intensive, expensive, and only accounts for 50,000 sq ft



Turf Programs

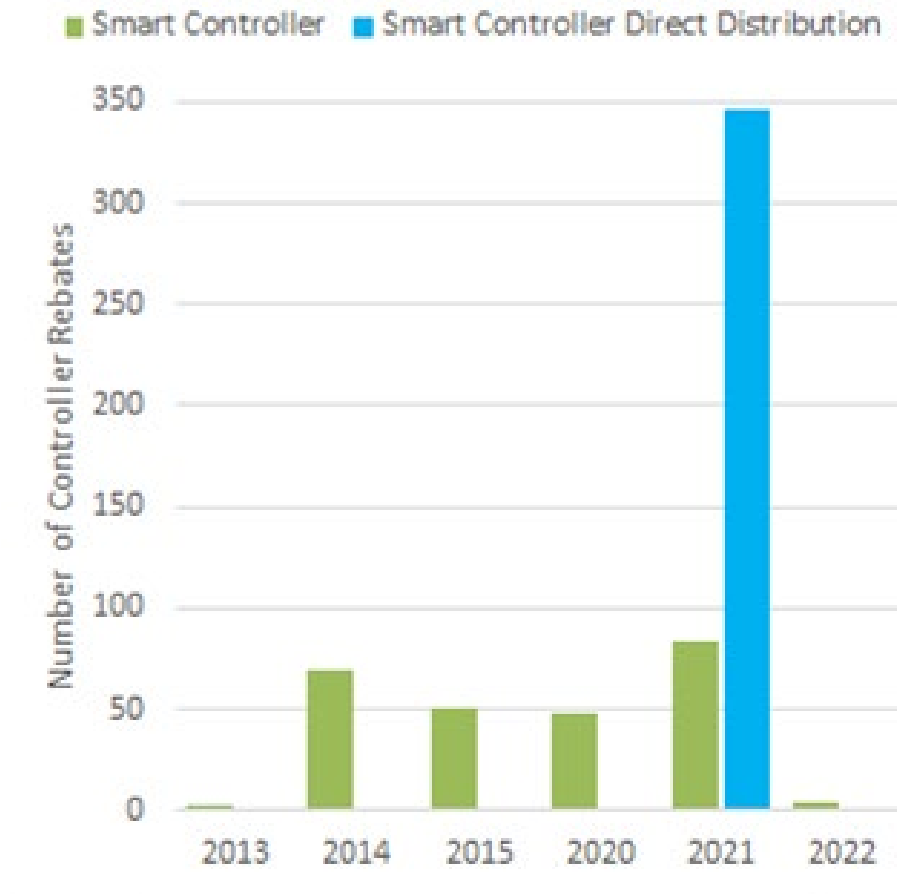
Consideration of program modifications:

- Extend approval from 90-days to 180-days
- Reintroduce 50% plant coverage requirement with low water use plants
- Adjusting rebate amounts:
 - Lower rebate for projects where lawn physically removed
 - Higher rebate for sheet mulching, using natives, and installing a stormwater feature
- Retire direct install sheet mulching program
- Board to consider program changes in March



Smart Controller Programs

- Existing \$100 rebate and Rachio direct distribution program
- Rachio program accounted for 80% of participation during 2021 and minimized staff time spent processing rebates
- Smart controllers offer proven water savings through proper scheduling when irrigation restrictions are not in place



Other Incentive Programs

Hot Water Recirculating System Rebate (\$50 rebate)

- 125 rebates approved since May 4, 2021

High Efficiency Toilet Rebate Program (\$150 rebate)

- Launched 9/2021. Incentives for MAP PREMIUM toilets – 1.1 gpf

Pool Covers Rebate (\$100 rebate)

- 383 rebates since since May 4, 2021

High Efficiency Clothes Washer Rebate (\$100 rebate)

- Long-standing program – regional rebate through Sonoma Marin Saving Water Partnership

Expenditures and Drought Incentives

- FY22 Budgeted WE Rebates/Incentives: \$581K
- Expenditure through January for WE Rebates/Incentives: \$1.2M
- Additional Anticipated WE Rebates/Incentives Expenditures for FY22: \$600K for a total of \$1.8M
- FY23 Budgeted WE Rebates/Incentives: \$591K

In-person Program Offerings Resume

Classroom Presentations

- Offer in-person classroom presentations starting March 1 for grades 3-12
- Provide outreach to teachers and schools
- Also offer presentations via Zoom

Conservation Assistance Program

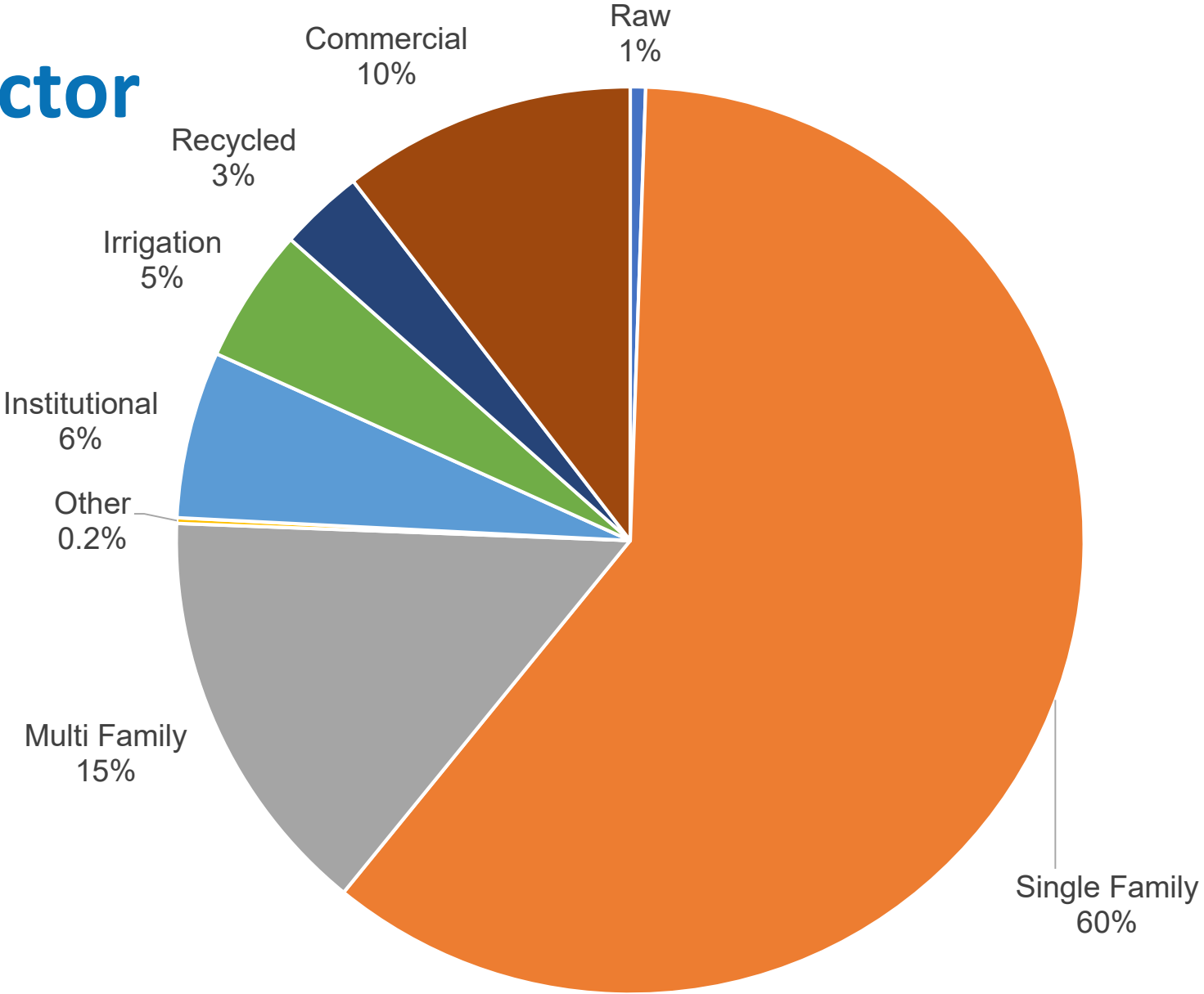
- CAP program to re-launch March 1
- In-person site visits & phone consultations
- Offer indoor “kits” (dye tablets, flow bags) – for Covid-concerned



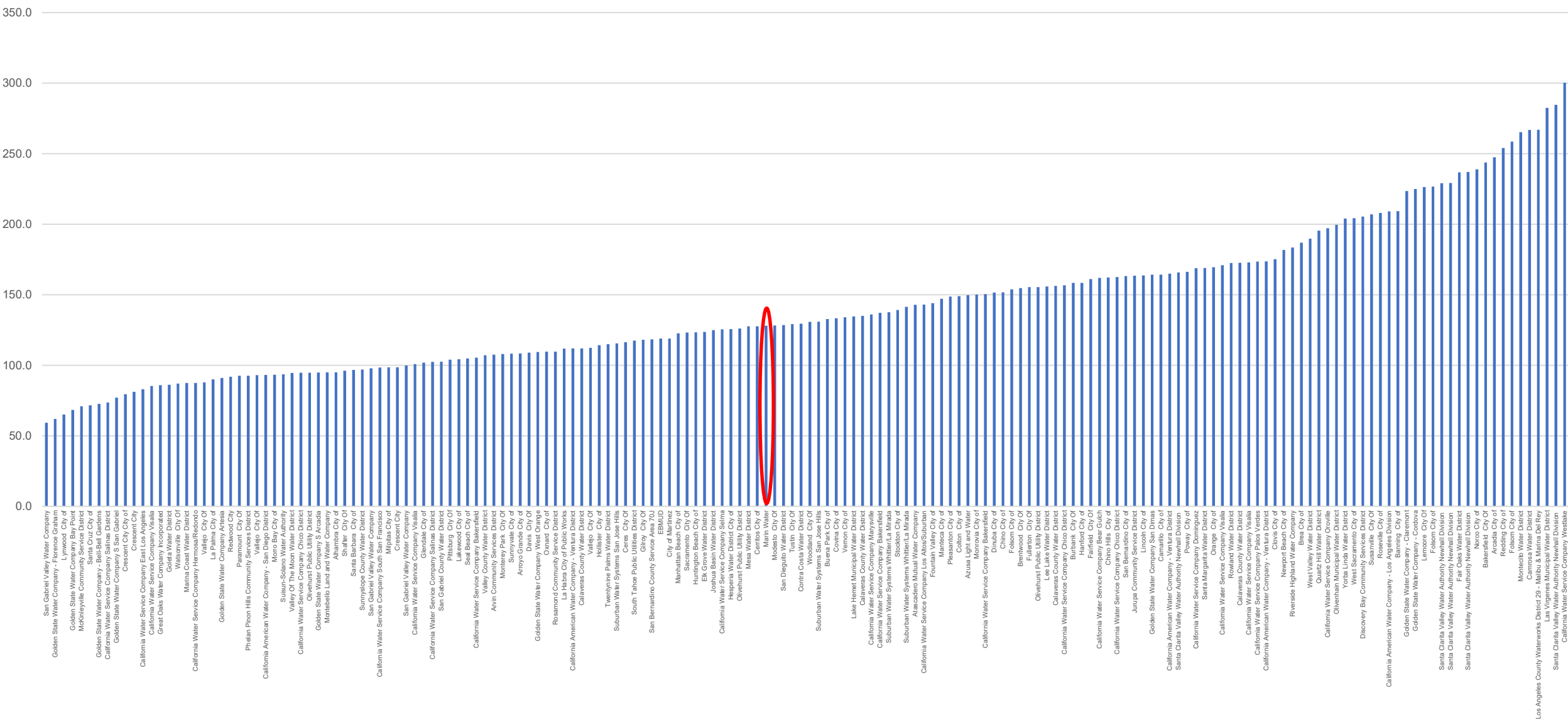
Water Use Statistics

2021 Water Use by Sector

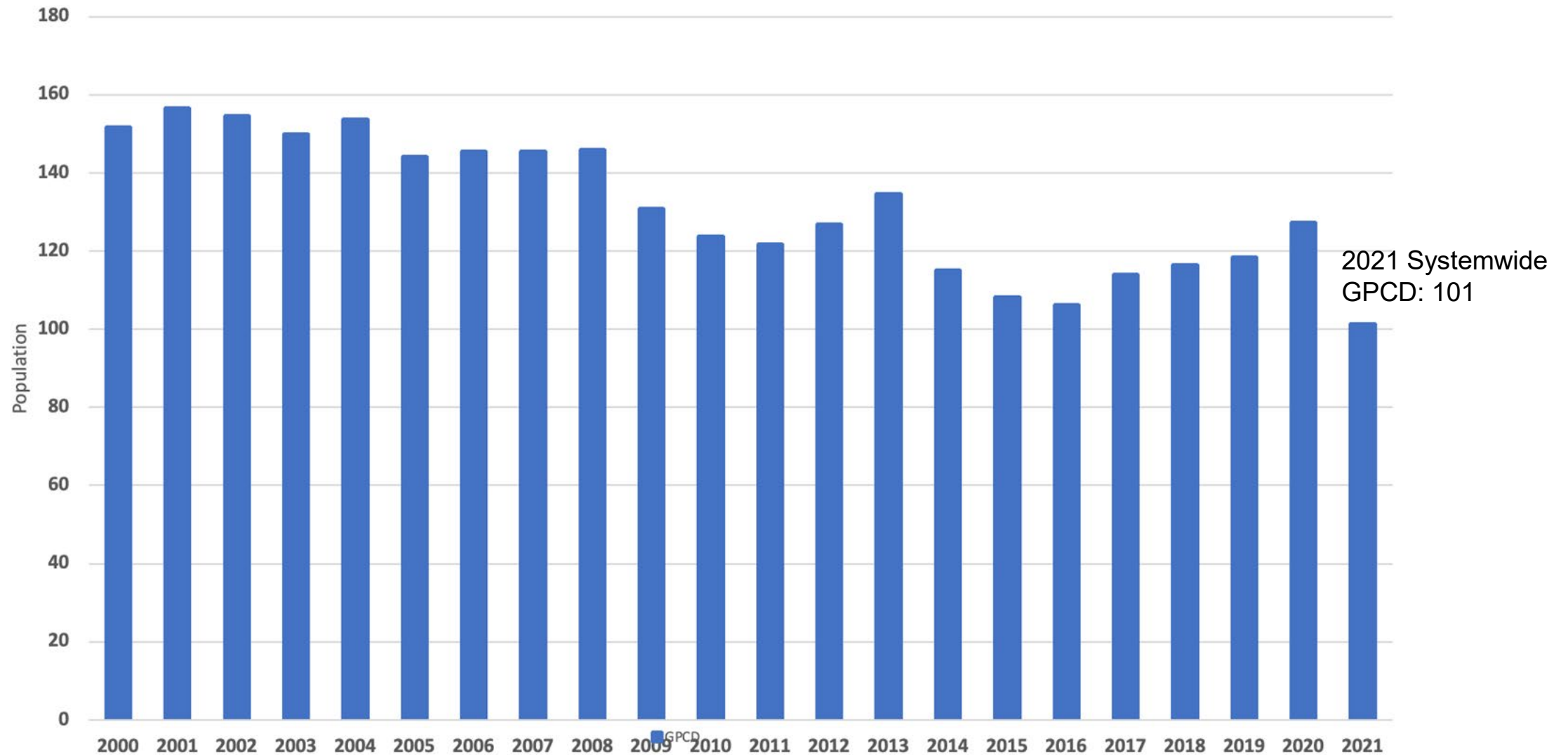
Sector	2021 Water Demand (acft)
Single Family	12,281
Multi Family	2,998
Commercial	2,127
Institutional	1,211
Irrigation	976
Recycled	612
Raw	111
Other	41
TOTAL	20,355.6



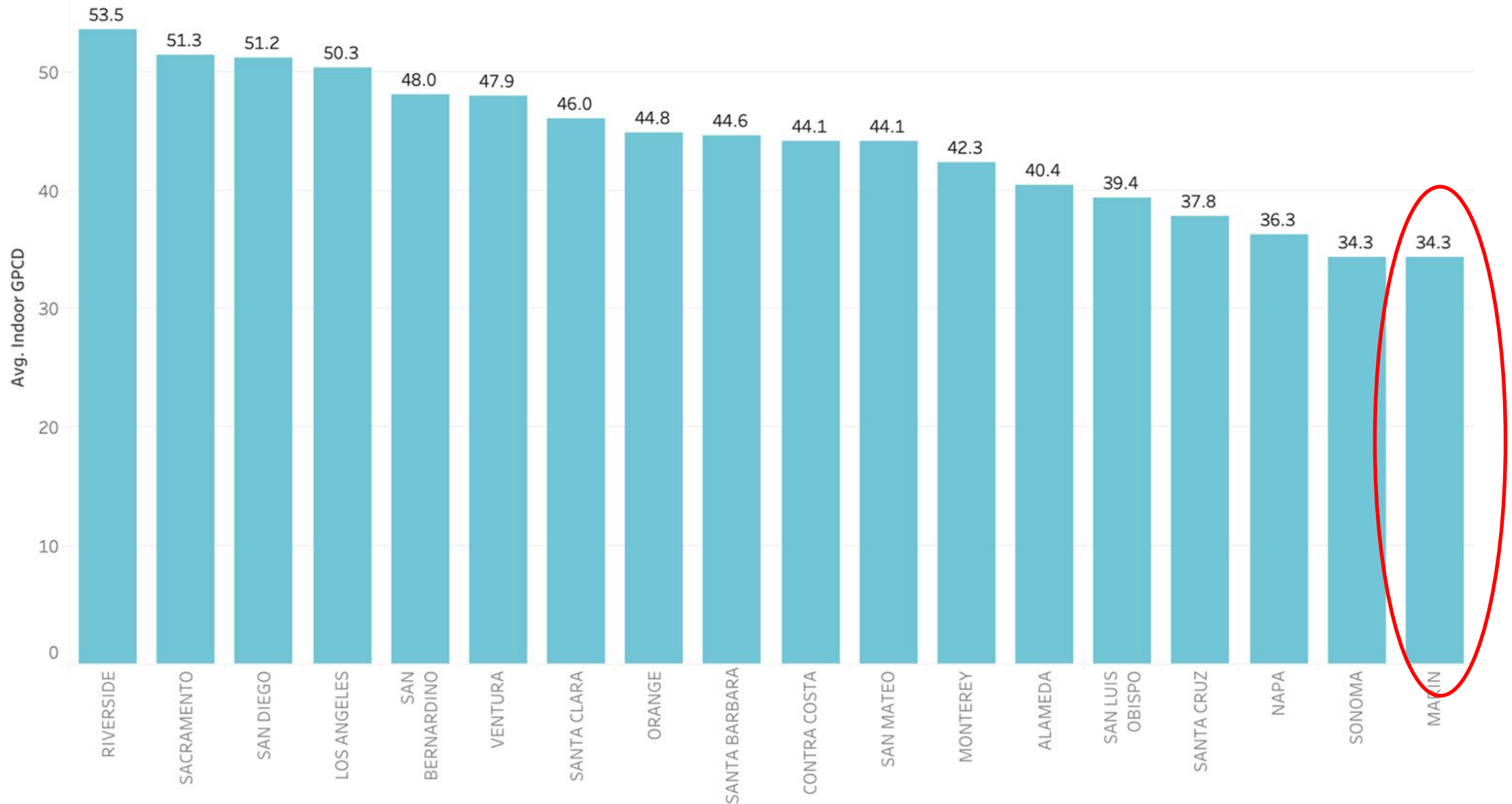
Total Per Capita Water Use- CA utilities



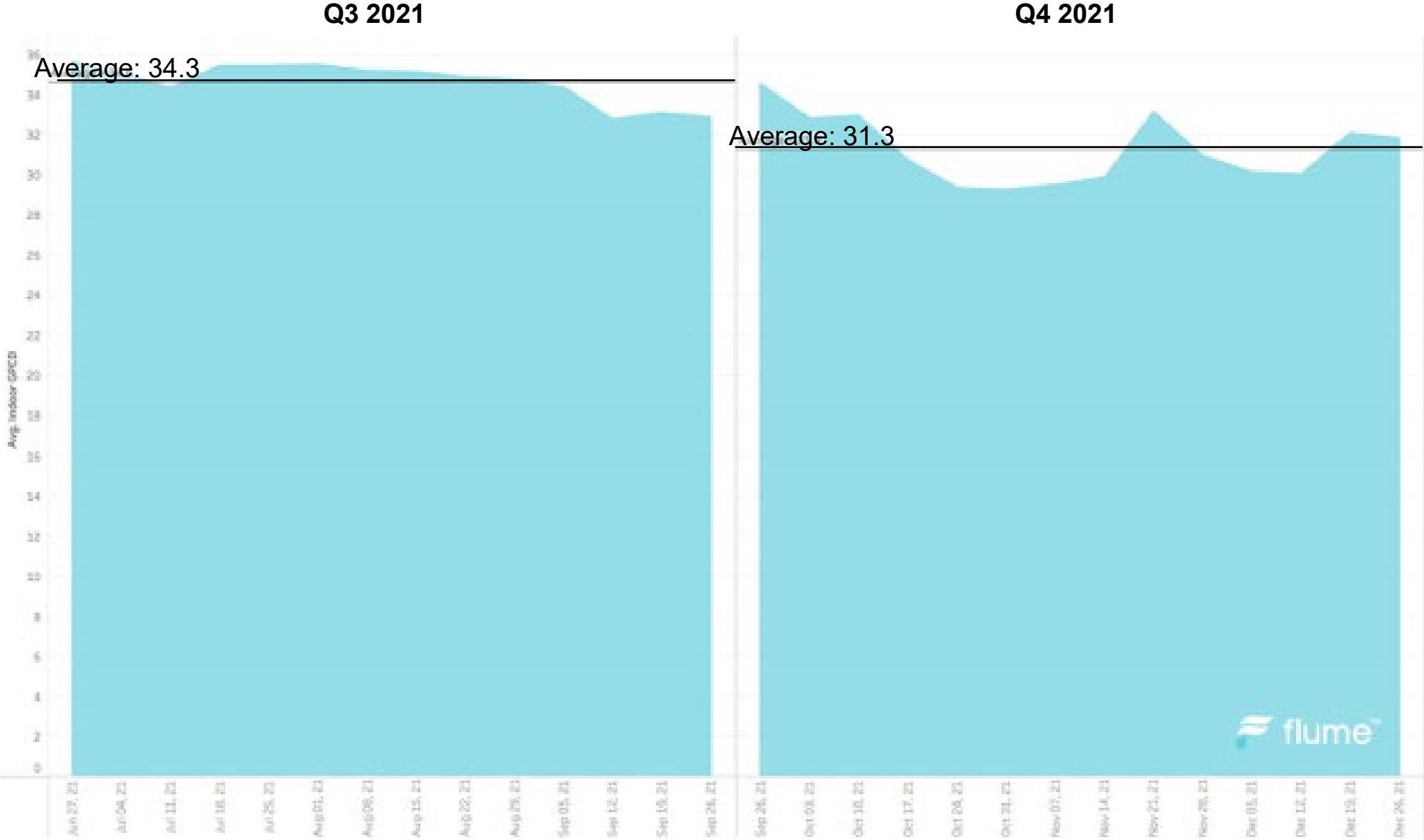
Systemwide per Capita Water Use



Residential Indoor Water Use by CA County - Q3 2021



Residential Per Capita Water Use



Long Term Initiatives

Statewide Water Efficiency Framework

- Water use objectives will be established for each category, the sum of the objectives will be the District's Water Use Target
- Water supplies will be required to annually report system production compared to the Target to maintain compliance beginning January 2024.

**RESIDENTIAL INDOOR
USE OBJECTIVE**



**OUTDOOR USE
OBJECTIVE**



**WATER LOSS
OBJECTIVE**



**CII STANDARDS &
PERFORMANCE
MEASURE OBJECTIVE**



Commercial Non-Functional Turf Prohibition

- Develop new codes to address
 - Removal of existing commercial non-functional turf (NFT)
 - Prevent the installation of commercial non-functional turf in new developments
- Commercial NFT includes municipal/public medians, golf courses, strip malls, retail establishments, etc
- Does not include residential, HOA common areas, churches, multi family housing, active/play areas in schools or parks
- Cost of unbudgeted incentives: \$4.5M



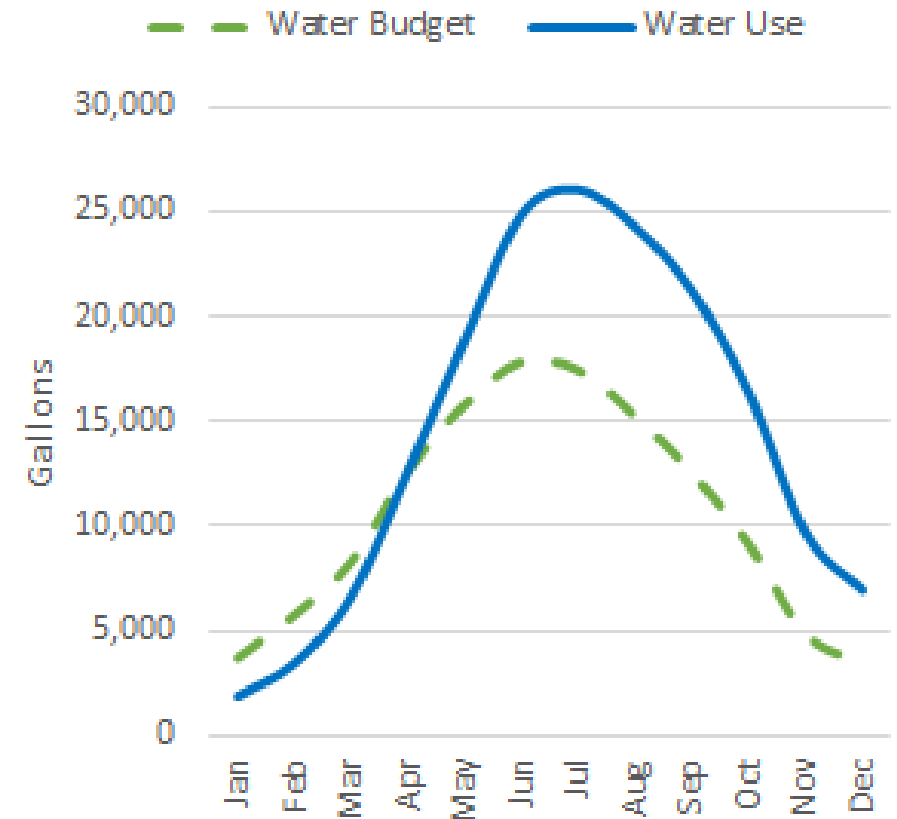
Water Efficiency Master Plan

- Evaluate Service Area Demands by Sector
- Evaluate Program Participation
 - Utilizing insights from the drought
- Evaluate the Conservation Program Potential
- Consider Sample Conservation Targets and Investments
- Develop recommendations for policy, incentives, community engagement and data gaps

Timing: Final Report June 2022

Informational Water Budgets

- Indoor and outdoor components
- Reasonable target to compare with actual use
- Aligns with Statewide framework
- Currently evaluating methodologies with consultant



AMI Update

■ Phase 1 – Implementation Plan

- Agreement with E Source to develop an AMI Implementation Plan:

- Current system Assessment ← Current status

- Financial analysis

- Business process impact assessment

- Technology and AMI deployment roadmap

- Final Implementation Plan June 2022; includes preferred hardware and software selection

■ Phase 2 - Development of Request For Proposals

- Develop an RFP to solicit vendors and select preferred vendors

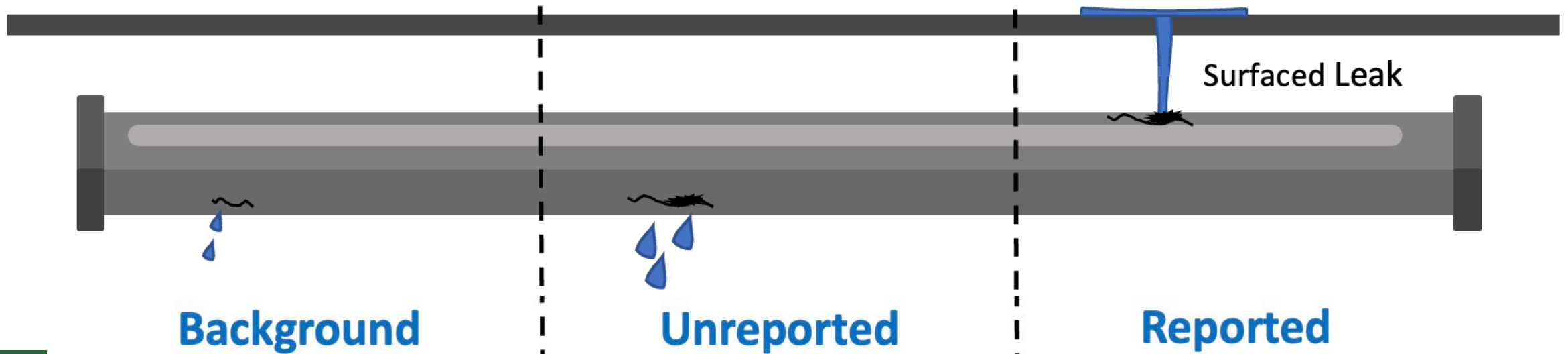
■ Phase 3- Installation of System-wide AMI

- Implement AMI throughout the District's Service Area; includes software and hardware integration to collect and use data

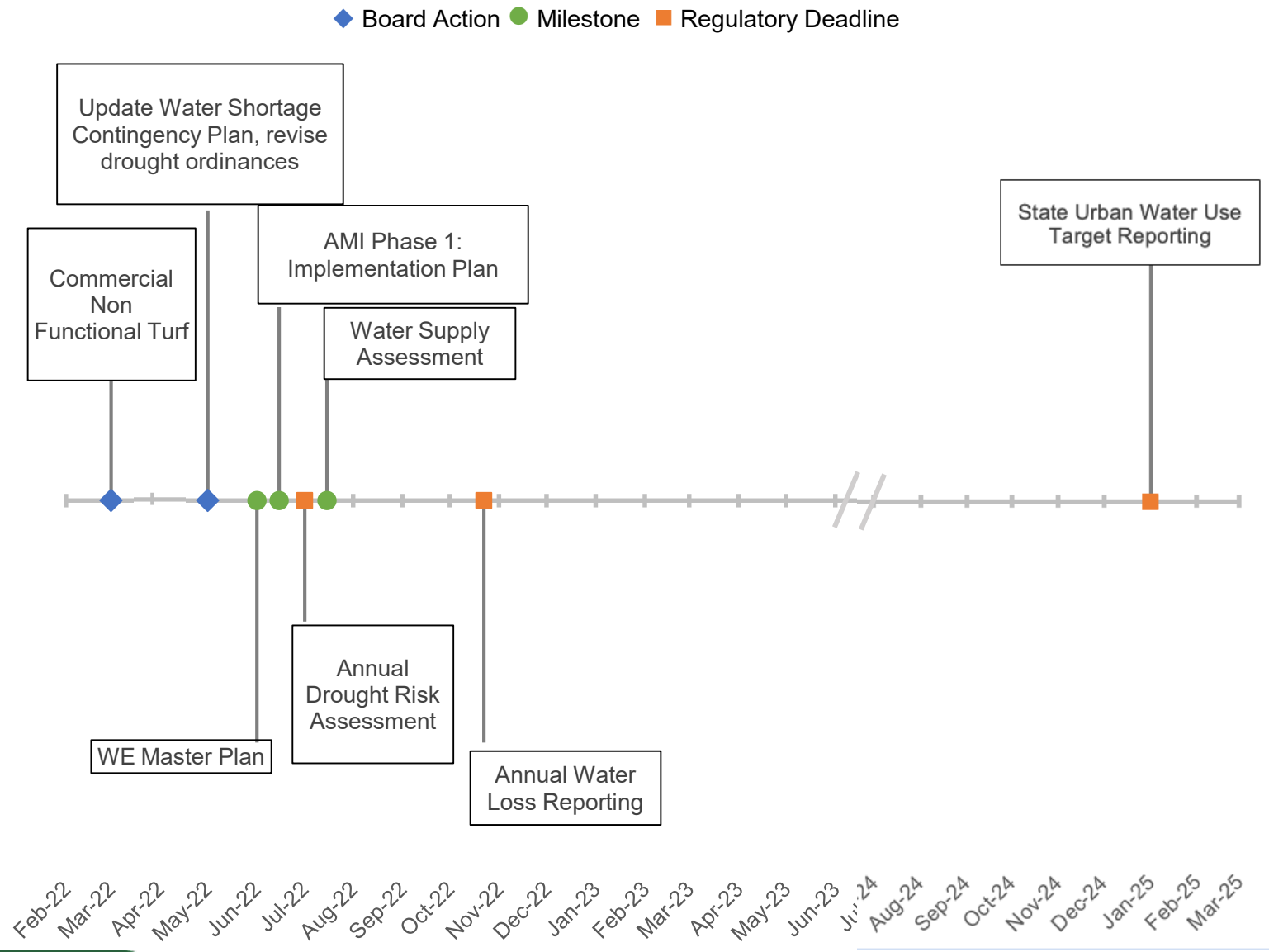
Prop 1 Bay Area IRWMP Grant

Grant Funding: \$222,777 w/a 50% match from District

- 2,830 Smart Home Water Monitors (Flume) eligible for reimbursement
- Water Loss: Real Loss (leakage and main breaks) Component Analysis
 - Derive custom inputs for the SWRCB Real Loss Performance Target Model within each component of real loss
 - Develop recommendations for initial cost-effective loss recovery efforts
 - Provide recommendations for data collection and management improvements



Water Efficiency Actions, Milestones & Deadlines



Next Steps

Next Steps

- Return with Turf Program Evaluation
- Utilize findings from WE Master Plan to inform additional programmatic changes, new initiatives and inform development of water use targets
- Develop multi-pronged approach to commercial non-functional turf prohibitions
- Finalize District-wide AMI implementation plan
- Continue providing conservation resources and incentives considering budget limitations