

"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)]

Board of Directors Meeting

January 19, 2023



Call to Order / Pledge of Allegiance / Roll Call





ltem # I

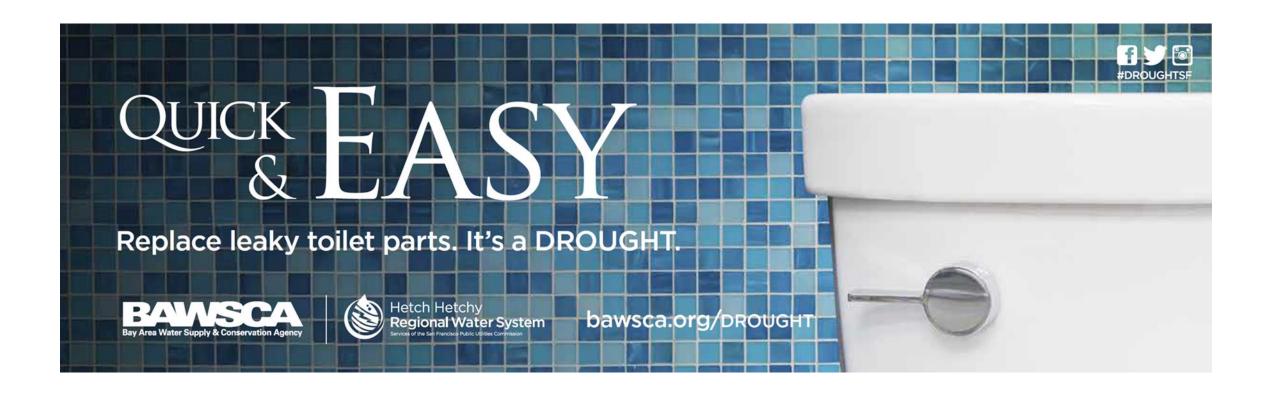
SPECIAL ORDER OF BUSINESS: Election of Officers for Calendar Year 2023





Item #2

Break for San Francisco Bay Area Regional Water System Financing Authority (RFA) Board of Directors





Item # 3

Call to Order and Roll Call

Special Order of Business: Election of Officers for Calendar Year 2023



Consent Calendar

a. Approval of January 20, 2022 Minutesb. Adopt FY 2022-23 Budget

Comments by the Chair

Public Comments on Items Not on the Agenda

General Manager's Report

Annual Conflict of Interest Form 700 Filing

- April 3, 2023 deadline
- Electronic filing through eDisclosure
- Email will be sent from BAWSCAForm700@BAWSCA.org

Item # 7

Directors' Comments

Item # 8

Meeting Adjournment and Return to BAWSCA Board Meeting Adjournment • Apr • Elec • Di BAW



San Francisco Bay Area Regional Water System

Financing Authority

Reconvene to BAWSCA Board Meeting Following RFA Meeting



Make the change to California native plants and use less water.



SaveOurWater.com



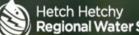
Item # 4

Comments by the Chair

REDUCE OUTDOOR WATER USE

It's a DROUGHT.





onal Water System

bawsca.org/DROUGHT





Board Policy Committee Report





Item # 6







Item # 7



Drought Conditions Update

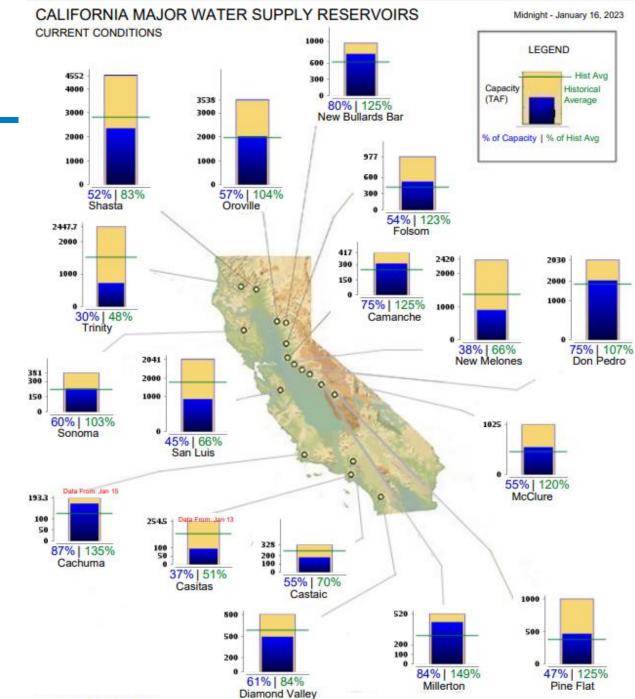
Steve Ritchie Assistant General Manager, Water January 19, 2023



Current Reservoir Storage as of January 17, 2023

	Current	Maximum	Available	Percent of Maximum	Normal Percent of Maximum	
Reservoir	Storage ^{1,2,3}	Storage ⁴	Capacity	Storage	Storage ⁵	
	(AF)	(AF)	(AF)	0	U	
Tuolumne System						<u>On Nov. 14:</u>
Hetch Hetchy	291,100	360,360	69,260	80.8%	67.9%	HH: 70.5%
Cherry	228,229	273,345	45,116	83.5%	-	
Eleanor	22,580	27,100	4,520	83.3%	-	
Water Bank	570,000	570,000	0	100.0%	98.6%	WB: 44.2%
Total Tuolumne Storage	1,111,909	1,230,805	118,896	90.3%	-	
Local System						
Calaveras	96,741	96,670	0	100.0%	-	Calaveras: 59.0%
San Antonio	54,412	53,266	0	100.0%	-	
Crystal Springs	65,834	68,953	3,119	95.5%	-	
San Andreas	17,769	19,027	1,258	93.4%	-	
Pilarcitos	3,139	3,030	0	100.0%	-	
Total Local Storage	237,895	240,946	4,377	98.7%	-	
Total System Storage	1,349,804	1,471,751	123,273	91.7%	80.3%	
<u>Total without water bank</u>	779,804	901,751	123,273	86.5%	-	Total w/o WB: 77.2%

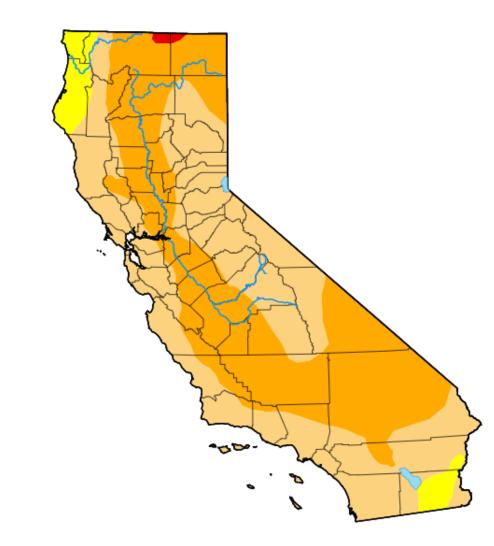




Other California Reservoirs



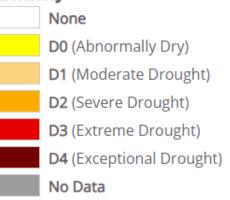
California Drought Monitor



Map released: Thurs. January 12, 2023

Data valid: January 10, 2023 at 7 a.m. EST

Intensity



Authors

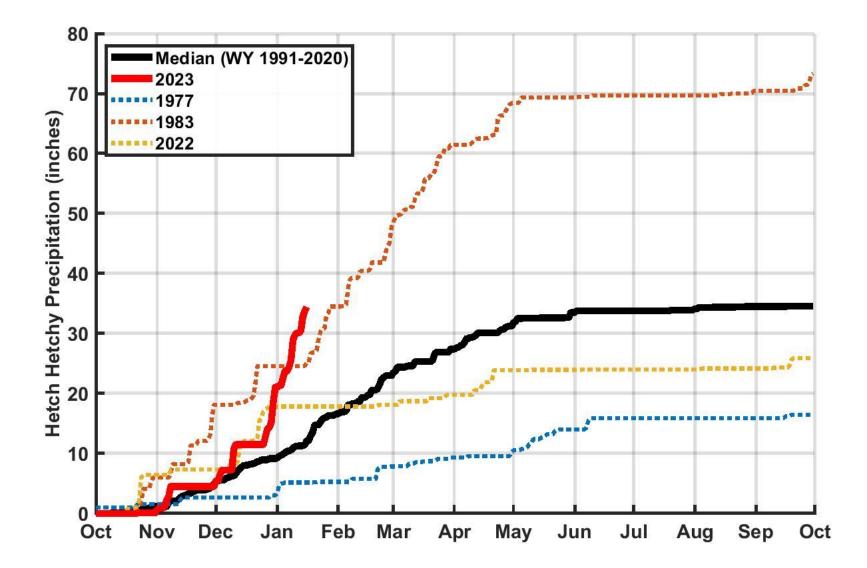
United States and Puerto Rico Author(s): Richard Tinker, NOAA/NWS/NCEP/CPC

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.

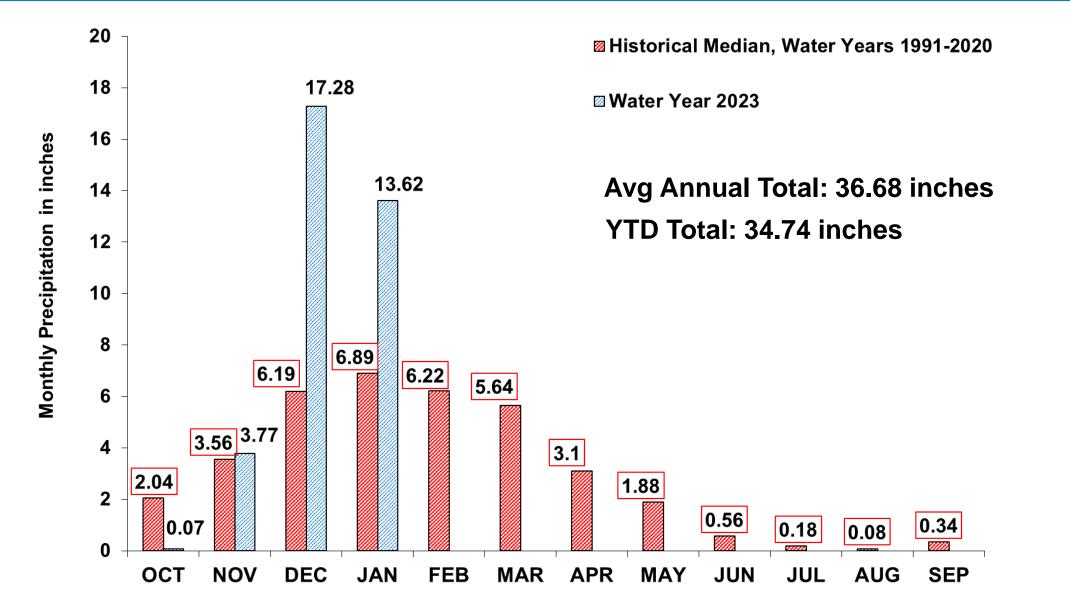


Hetch Hetchy Precipitation





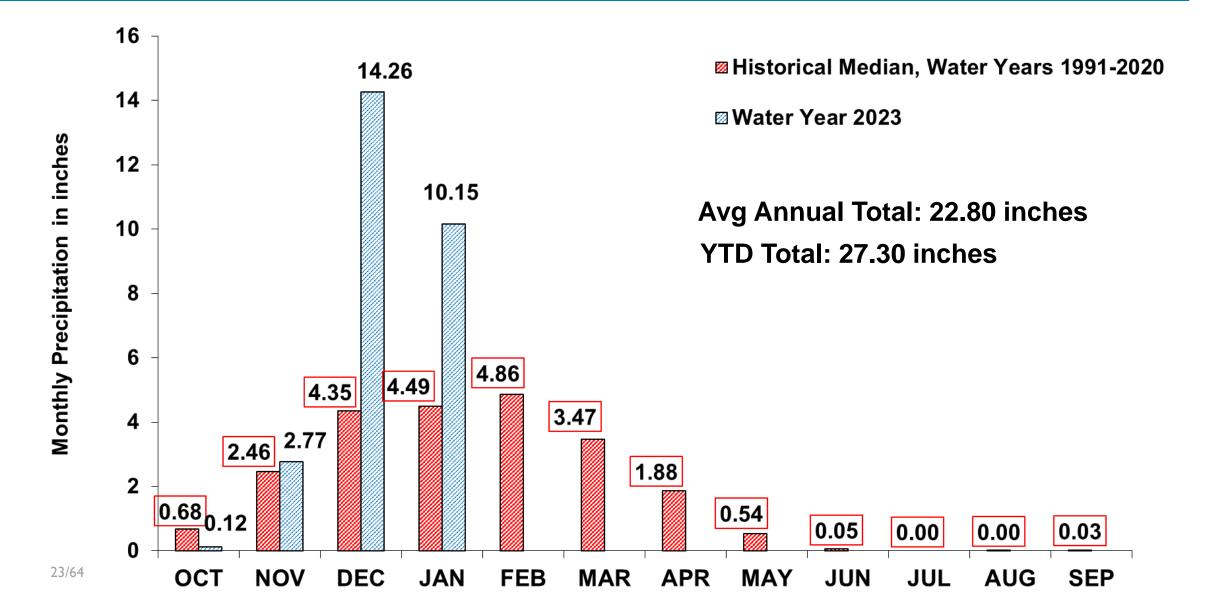
Upcountry 6-station Precipitation Index as of January 15, 2023



22/64

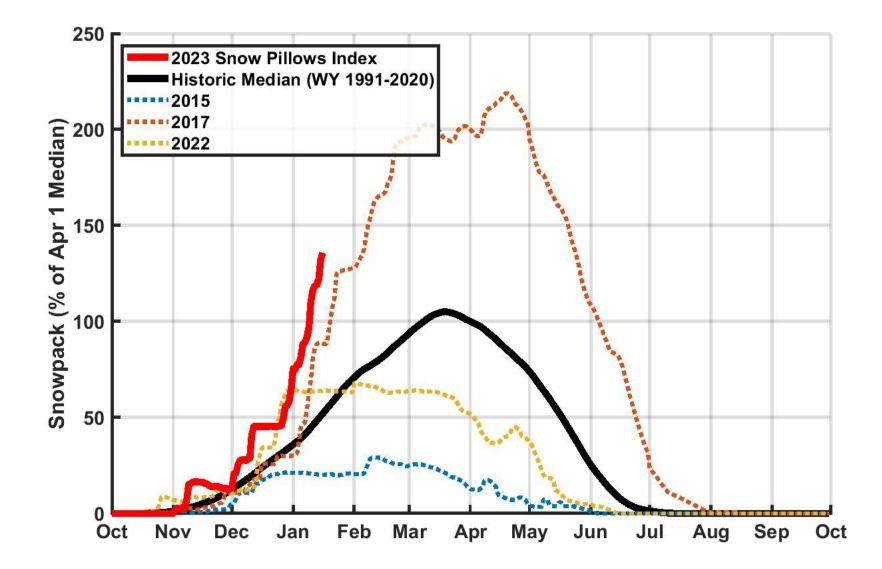


Bay Area 7-station Precipitation Index as of January 16, 2023



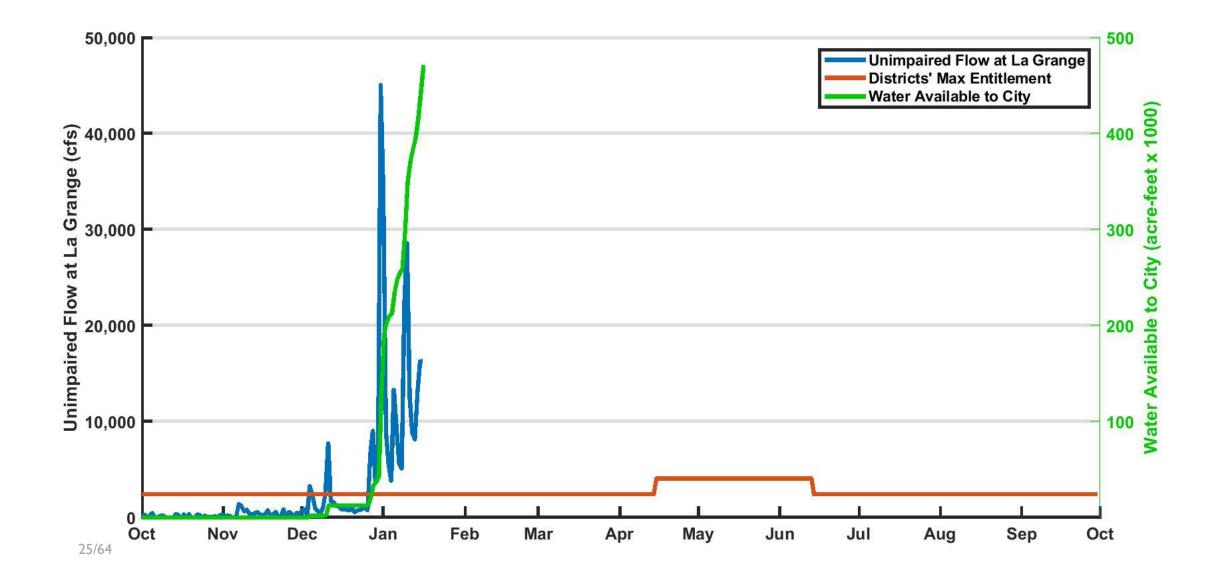


Upcountry Snowpack



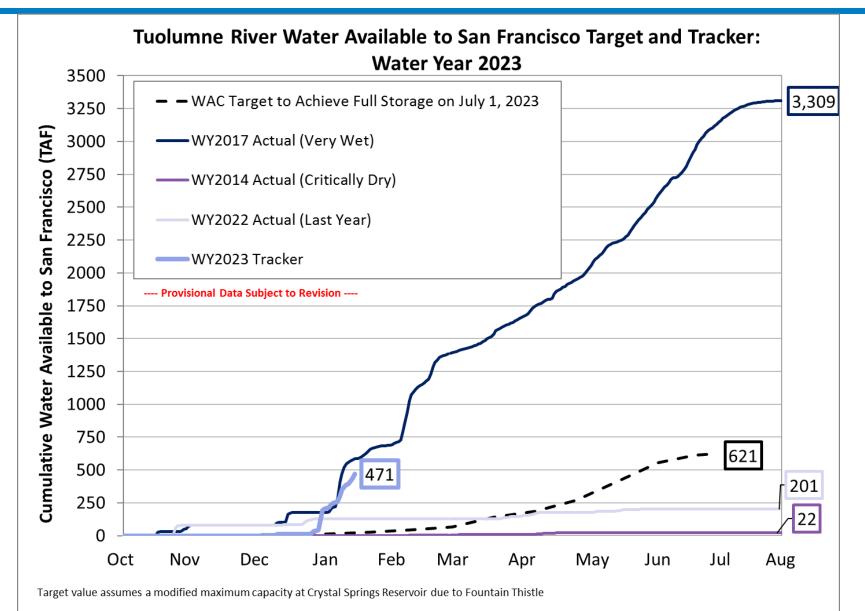


Water Available to the City





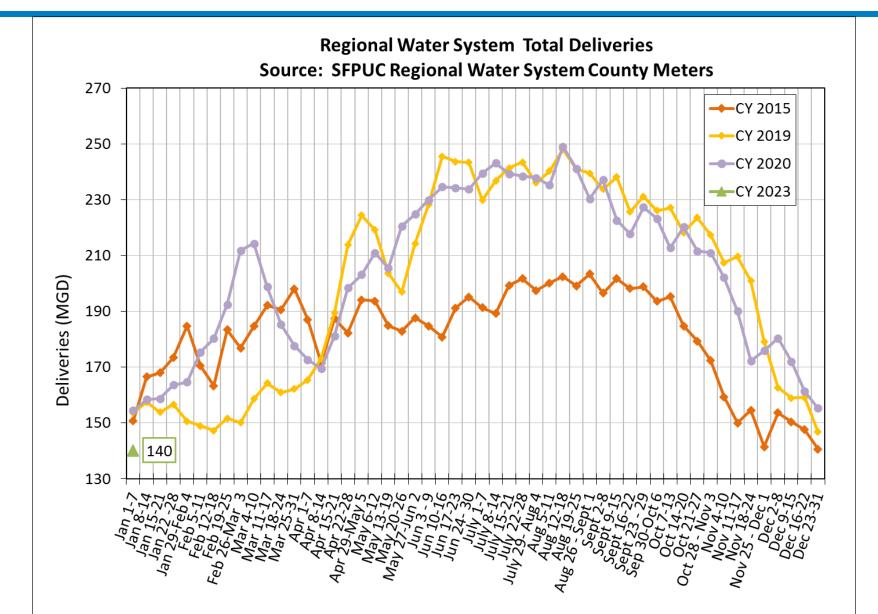
Tuolumne River Water Available to the City



26/64

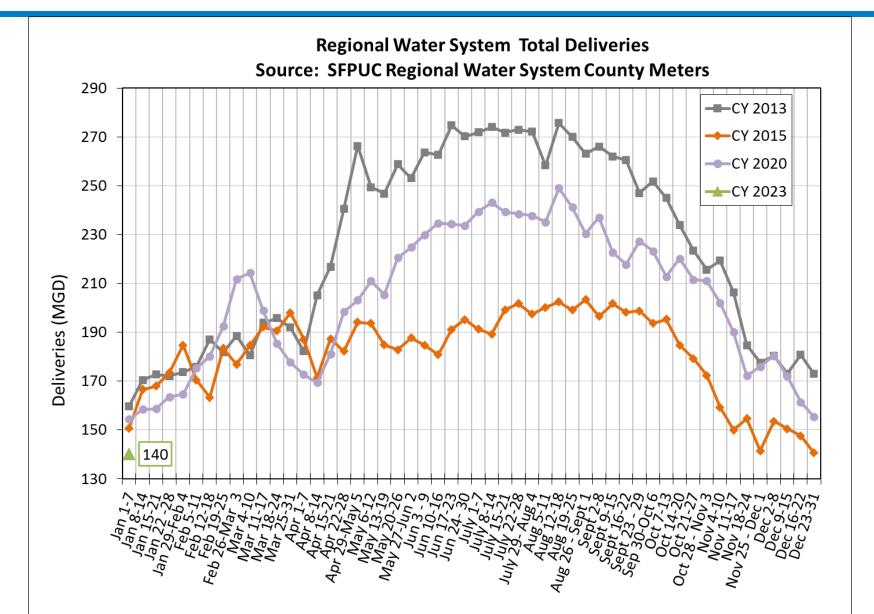


Total Deliveries





Total Deliveries





Drought Tracker

---- Provisional Data Subject to Revision ----

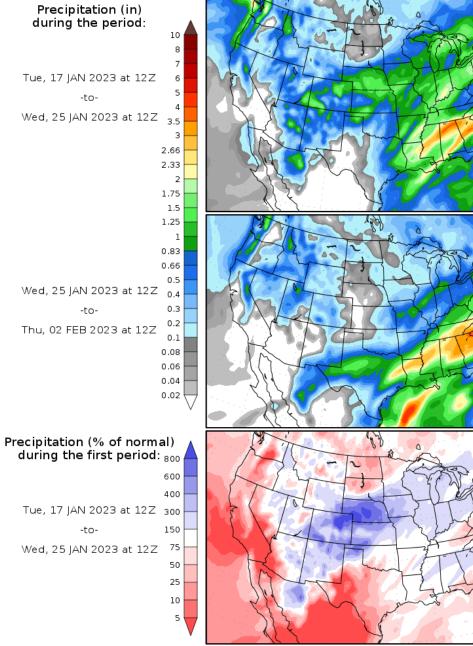
For the Period July 1, 2021 - June 30, 2022				
CUSTOMER GROUPS		FY2021/2022 AVG. MGD	% REDUCTION	
San Francisco Customers	63.0	55.8	11.4%	
Wholesale Customers	136.6	131.5	3.8%	
TOTAL	199.7	187.3	6.2%	

For the Period January 1, 2022 - December 31, 2022				
CUSTOMER GROUPS		FY2021/22/23 AVG. MGD	% REDUCTION	
San Francisco Customers	63.0	56.2	10.7%	
Wholesale Customers	136.6	128.5	5.9%	
TOTAL	199.7	184.8	7.5%	

For the Period July 1, 2022 - J	anuary 7, 2023			
CUSTOMER GROUPS	FY2019/2020 AVG. MGD	FY2022/2023 AVG. MGD	% REDUCTION	
San Francisco Customers	64.6	55.9	13.6%	
Wholesale Customers	143.2	128.0	10.7%	
TOTAL	207.9	183.8	11.6%	



Precipitation Forecasts



Precipitation forecasts from the National Centers for Environmental Prediction. Normal rainfall derived from Xie-Arkin (CMAP) Monthly Climatology for 1979-2003. Forecast Initialization Time: 12Z17JAN2023

National Precipitation Forecast

Public Comment on Items Not on the Agenda





Item # 8

Item # 9

Consent Calendar

- Approve Minutes of the November 17, 2022
- Receive and File:
 - Budget Status Report as of 11/30/22
 - Investment Report as of 12/31/22
 - Director's Reimbursement Report as of 12/31/22





Item # 10

Action Calendar

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Mid -Year Work Plan Review Identifies Need for Scope and Budget Changes Due to Current Conditions

- A review of the FY 2022-23 Work Plan was performed and results are presented in Table I
- The following conditions result in recommended changes to the adopted FY 2022-23 Work Plan and Operating Budget:
 - Increased support needed due to ongoing drought conditions
 - Increased effort needed to support updated Tier 2 negotiations
 - Upcoming planned staff leave of absence
- Three changes recommended as a result of this review
 - Item 2b: modify scope and budget
 - Item 3f: modify scope with no budget impact this fiscal year
 - Item 4d: modify scope and budget



Recommendation #1: Modify Scope and Budget for Work Plan Item 2b

- Item 2b "Complete staff-led scoping for Strategy Update" requires additional \$30k for new consultant support
 - Progress on scoping has been delayed as drought work and water demand projections project has been prioritized
 - Upcoming planned staff leave of absence results in need for outside assistance to complete task
- Recommendation
 - Modify work plan item to read "<u>Initiate</u> scoping an update to BAWSCA's Long-Term Reliable Water Supply Strategy (Strategy)";
 - Provide a new \$30k budget allocation to secure outside consultant support services; and
 - Fund budget allocation through a transfer \$30k from General Reserve and an increase FY2022-23 Operating Budget to reflect this transfer



Recommendation #2:: Modify Scope for Work Plan Item 3f

- Item 3f "Continue development of a leak repair and training certification program for implementation in FY 2023-24" requires a scope change
 - Work is in progress with California Water Efficiency Partnership (CalWEP) and Valley Water
 - Implementation delayed by I-year to secure additional outside specialized expertise in curriculum development as recommended through early planning work
 - Updated schedule provides for program development in FY 2023-24 followed by implementation in FY 2024-25
- Recommendation
 - Modify work plan item to read "Continue development of a leak repair and training certification program for implementation in <u>FY 2024-25</u>"
 - No FY 2022-23 budget impact



Recommendation #3: Increase Budget for Work Plan Item 4d

- Item 4d "Facilitate negotiations of an updated Tier 2 Drought Allocation Plan" requires additional \$60K for additional Woodard & Curran consultant support
 - Significant progress is being made, especially with the move to in-person meetings
 - Additional time and consultant resources needed to continue development of an updated Plan that will be acceptable to members
 - In December, CEO authorized an initial \$15k budget increase to consultant contract under her discretionary authority to continue work through January 2023
- Recommendation
 - Increase consultant contract by an additional \$60k for a total contract amount of \$147k;
 - Fund contract increase by use of \$55k from budgeted contingency and a \$5k reallocation within the current approved FY 2022-23 Operating Budget



Mid-Year Review Identified Four Extraordinary Results for FY 2022-23

Status	FY 2022-23 Work Plan Item	Status of Results Delivered to Date – Extraordinary Result
< ★	2a. Complete Update and Refresh of BAWSCA 2020 Demand Study	 2022 Demand Study is <u>complete</u>, posted on website, and results presented to Board at its November 17,2022 meeting
*	5a. Participate in SWRCB Bay Delta Plan Update to ensure members' interests are represented, including ongoing legal intervention.	 Engaged with BAWSCA's legislative representatives as well as select member agency Mayors, business leaders and labor interests to craft a support package, as provided to Governor Newsom, urging the Governor to press State Agencies to enter into a VA for the Tuolumne River Engaged with the SFPUC on their efforts to enter into an MOU with the State that would include the Tuolumne River VA
✓★	9b. Administer bonds issued by BAWSCA to retire capital debt owed to SF, including completing the settlement of 2023A refunding bonds in Jan. 2023.	 On Jan. 5, 2023, successfully executed the settlement of 2023A refunding bonds, which is anticipated to generate a net present value savings of appx. \$27.1 million to the water customers over the term of the bonds
*	10a. Maintain close relationships with BAWSCA's local legislators and allies	 Engaged with elected officials, business and labor representatives and others on matters related to the potential negative impacts of the Bay-Delta Plan on members and their water customers and to support inclusion of the Tuolumne River in a VA

Agency's General Reserve Balance is within Budgetary Guidelines

- BAWSCA's General Reserve Policy identifies a range of 20% to 35% of the budget year's operating expense as a budgetary guideline for the General Reserve balance
- Current General Reserve balance is \$1,076,550
 - Reflects \$193,012 transfer approved by Board in May 2022
 - Reflects deposit of \$124,744 FY 2021-22 unspent funds
 - General Reserve balance is 23% of approved Operating Budget
- Recommended action would result in a revised General Reserve balance of \$1,046,550
 - Reflecting recommended \$30k withdrawal from General Reserve to Operating Budget
 - 22% of the revised Operating Budget



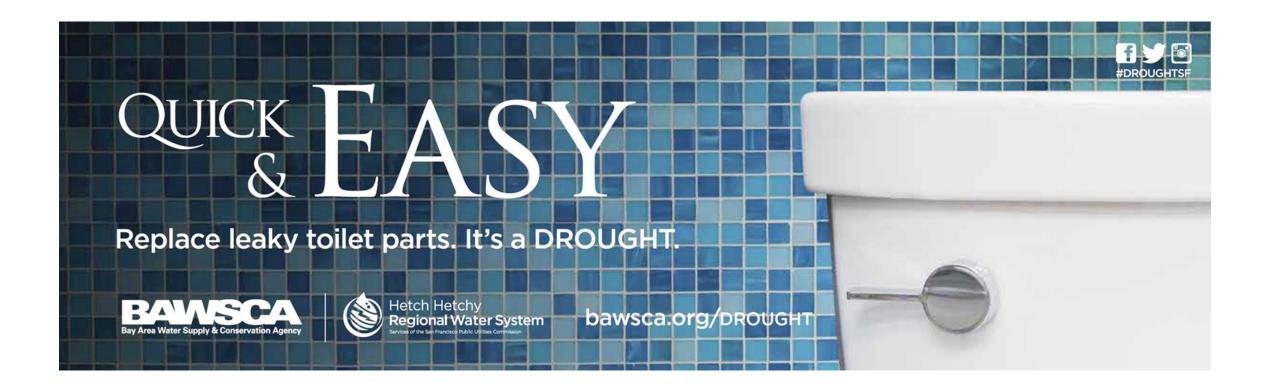
That the Board approve the following FY 2022-23 Work Plan, Operating Budget and funding changes:

- For Work Plan Item 2b "Scope update to BAWSCA's Long-Term Reliable Water Supply Strategy (Strategy)": Change work plan item to read "Initiate scoping an update to Strategy to FY 2022-23", secure outside consultant support to assist with the scoping in FY 2022-23, transfer \$30K from the General Reserve to fund the outside consultant support, and amend the FY 2022-23 Operating Budget by \$30K to reflect the associated increase;
- Work Plan Item 3f "Continue development of a leak repair and training certification program for implementation in FY 2023-24": Change work plan item to read "Continue development of a leak repair and training certification program for implementation in FY 2024-25"; and,
- 3) For Work Plan Item 4d "Facilitate Negotiations of an updated Tier 2 Drought Allocation Plan": Increase consultant contract budget with Woodard & Curran by an additional \$60K for a total contract amount of \$147K, funded by using the \$55K budgeted contingency and a \$5K reallocation within the current approved FY 2022-23 Operating Budget.



Item # IIA

Special Report: BAWSCA Water Loss Management Program





BAWSCA's Water Loss Management Program Provides Important Technical Assistance to Member Agencies

- BAWSCA's Water Loss Management Program (WLMP) initiated in 2018
 - Addressing water loss is necessary and effective in managing water use
 - BAWSCA contracted with E Source to provide technical support for the WLMP; that contract has been renewed yearly
- The WLMP provides each member agency with the support necessary to:
 - Understand its unique water loss profile
 - Take action to intervene against excessive water loss
- BAWSCA's program includes both a core component and subscription component
 - <u>Core Component</u>: Regular workshops where advances in water loss management and regulatory requirements are discussed
 - <u>Subscription Component</u>: Provides one-on-one, agency-specified technical assistance designed to help with their water loss reduction goals



WLMP Provides Support to Member Agencies in Meeting New California Regulatory Reporting Requirements Regarding Water Loss

- During the last drought, controlling water loss became a topic of greater interest both within BAWSCA and its member agencies as well as within California's state water agencies
 - Reporting water loss is a component of "Making Conservation a California Way of Life" legislation
- Water Agencies are required to submit water loss audits yearly to the CA Department of Water Resources
 - BAWSCA's WLMP subscription program provides reporting support, including the required audit validation
- Majority of BAWSCA's member agencies are required to comply with new water loss regulations
 - Brisbane, GVID, Purissima Hills Water District, and Stanford are exempt from reporting, yet can still benefit from participating in the WLMP



WLMP Implementation Timeline Allows Member Agencies a Multi-Year Path to Addressing Water Loss

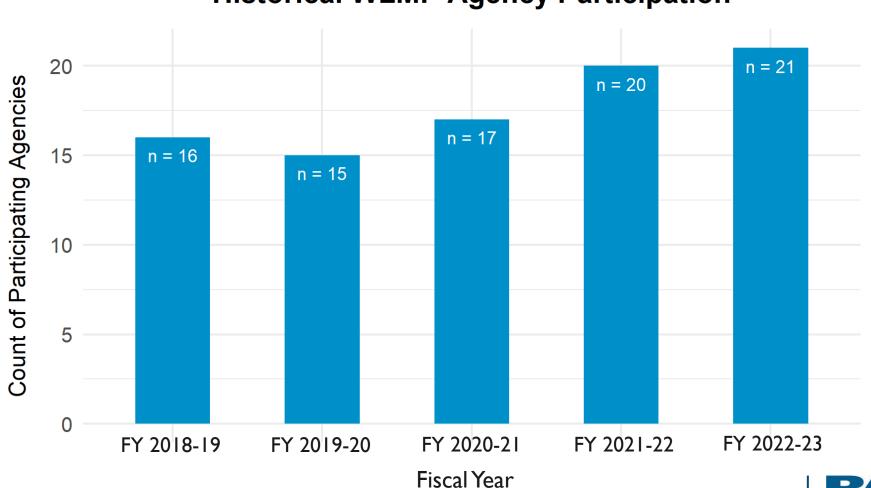
Baseline	Data Improvements	Field Confirmation	Pilot Water Loss Control	Evaluation and Refinement	Control Work	
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6 and Onward	
Establish water loss volumes and determine the best sources of data. Plan for future water loss data collection and intervention.	Improve water loss data by collecting both new and redundant data. Test instruments that inform the water audit, including source and customer meters.	Confirm audit results with deeper analytic and field investigations, including component analysis of real loss and pilot leak detection. Evaluate economics of water loss control and plan pilot water loss interventions.	Implement pilot water loss control. Upgrade data management platforms and technologies to support pilot interventions, where feasible.	Evaluate pilot interventions. Transition from pilot intervention to full- system management. Establish long-term performance tracking mechanisms.	Prioritize water loss control activities to increase confidence in water audit data, maintain or reduce system leakage, and prepare for state regulatory requirements.	

- WLMP implementation involves multiple phases of work, spread out over a period of years
- Timeline above represents a recommended course, but the actual course can differ to meet the needs of individual agencies
- FY 2022-23 represents Year 5 of BAWSCA's WLMP implementation



Continued Water Loss

Member Agency Participation in Subscription Program has to Increased Over First 5 Years of Implementation



Historical WLMP Agency Participation

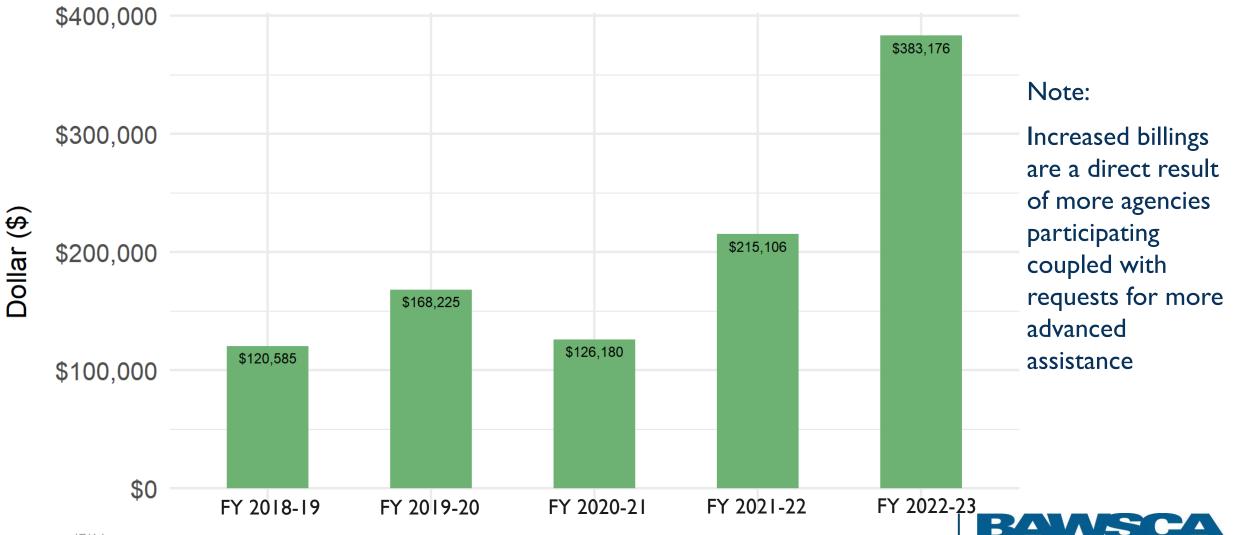


Member Agencies Continue to Use More Components of the Subscription Program Each Year

WLMP Provided Services	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23
Billing Data Analysis			5	5	4
Water Audit Compilation	6	5	6	7	8
Water Audit Validation	16	15	17	20	21
Customer Meter Testing & Apparent Loss Component Analysis		2	2	2	2
Leak Detection Survey		I		I	2
Real Loss Component Analysis		4			8
Miscellaneous Water Loss Assistance			I	2	I
Field Pressure Survey				I	I
Leak Detection Survey Preparation				I	2
Water Supply Meter Testing					I
Total	23	27	31	39	50

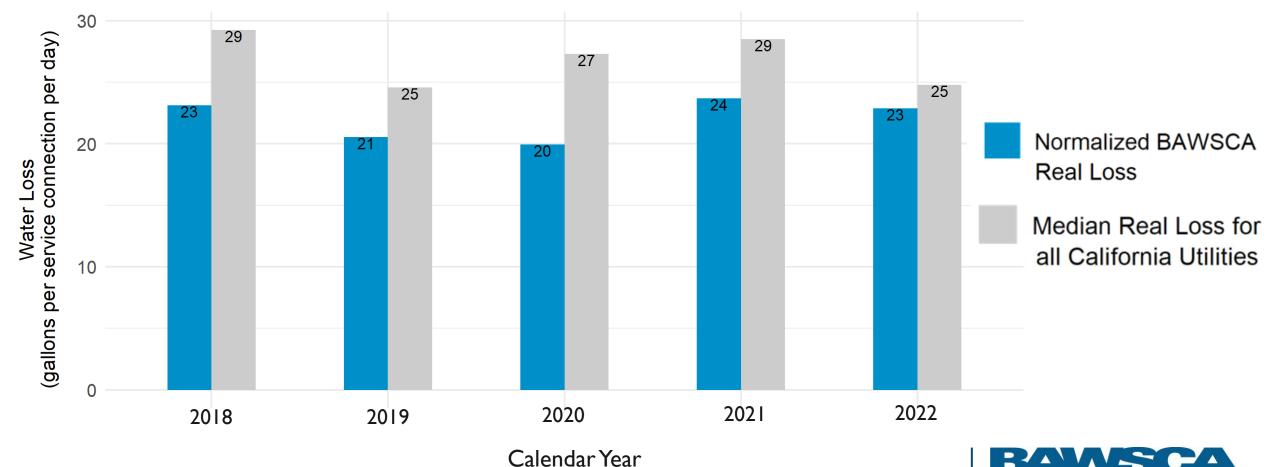


Member Agency Billings via Subscription Program have Increased over Time



Estimated Member Agencies' Water Losses for Each of the Last Five Years are less than the Statewide Median

Estimated Real Losses for BAWSCA & California Utilities



Water Loss Management Will Remain a Priority for Member Agencies and BAWSCA

- BAWSCA agencies are prioritizing water loss assessment and management by participating in data investigation and field-based services through the WLMP
- WLMP has equipped BAWSCA agencies with tools to continue ongoing improvement of their water loss assessment
- Accurate water loss assessments will become even more essential in the future
 - Water audit data will be used to prove compliance with SWRCB-issued, agency-specific water loss standards by 2028
- Continuation of the WLMP is proposed for next fiscal year and beyond
 - WLMP will be included in proposed FY 2023-24 Work Plan and Operating Budget, including continued work with E Source



Items # 12



Every drop counts. Use water wisely.



Turn off the water when brushing your teeth and save 10 gallons per person per day.





Results of BAWSCA's Refunding Bond Settlement

- Settlement of Revenue Bond Series 2023A was completed on January 5, 2023
 - To refund the 2013A bonds
 - Total principal amount: \$134.310 million
 - All-in true interest rate: 2.06%
 - Tax-exempt forward delivery
- Net present value savings: approx. \$27.1 million through 2034
 - Average savings of approx. \$2.5 million per year from 2023 to 2034
 - Total average savings of approx. \$6.0 million per year, including 2013 bond issuance
- Successful tax-exempt forward delivery based on the Board authorization
 - Resulted in roughly \$6.9 million more savings compared to a regular delivery refunding
 - About \$2.0 million more savings than anticipated in October 2021
- BAWSCA agencies' reduced surcharges will be collected starting March 1, 2023

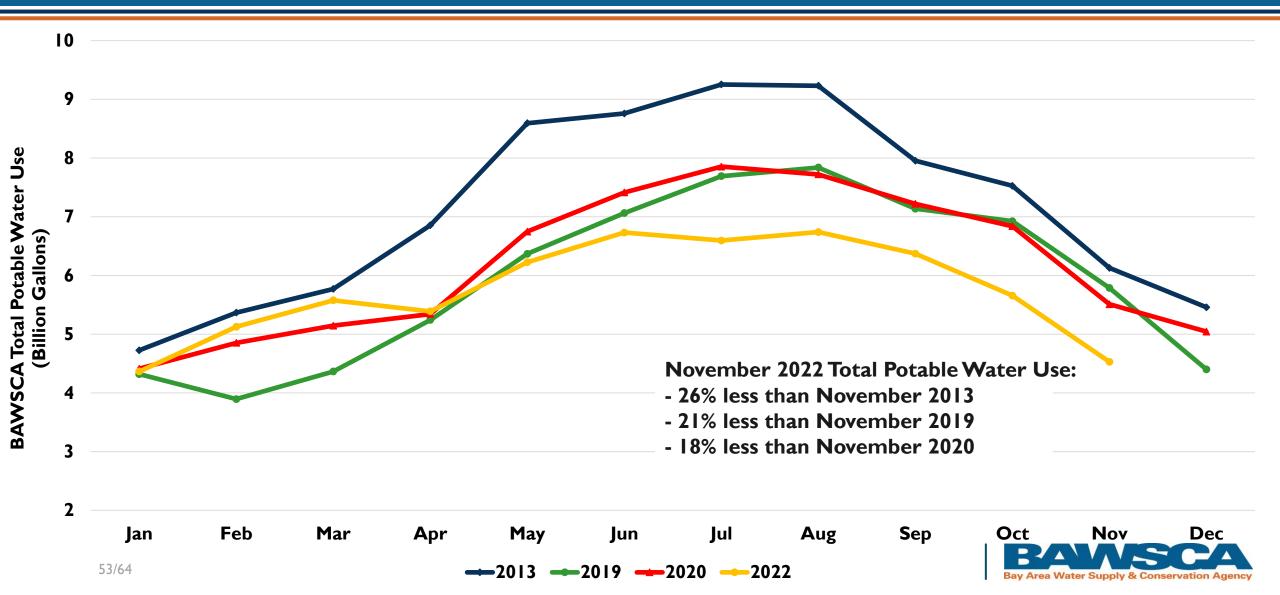


Water Supply Update: State Water Resources Control Board Provides Updated Actions and Schedule to Implement Bay Delta Plan

- State Water Resources Control Board (State Board) held a workshop today on the Water Quality Control Plan for the SF/Sacramento-San Joaquin Delta (Plan) and Voluntary Agreements
- State Board provided details on upcoming actions and an aggressive schedule to implement the Plan that identifies the following in Winter/Spring 2024:
 - Final draft Staff Report for Tuolumne River VA
 - Board workshop & consideration of Tuolumne River VA
 - Final draft EIR and regulation implementing Lower San Joaquin River flows
 - Board consideration of regulation implementing Lower San Joaquin River flows
- Complete and enforceable VAs will likely need to be ready by that timeline to be considered as an alternative to the Plan
- BAWSCA remains engaged with SFPUC and others in support of a voluntary agreement for the Tuolumne River as an alterative to the adopted Plan

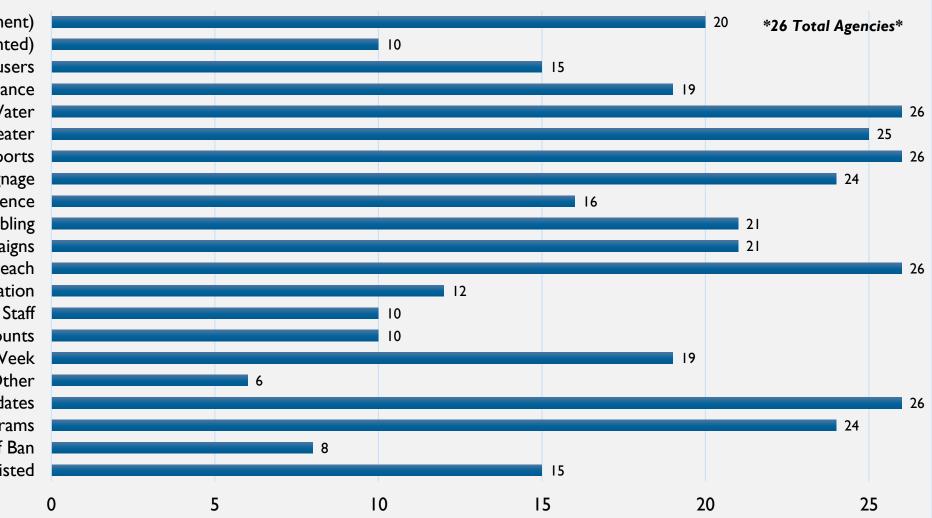


BAWSCA November 2022 Total Potable Water Use 26% Less Than November 2013



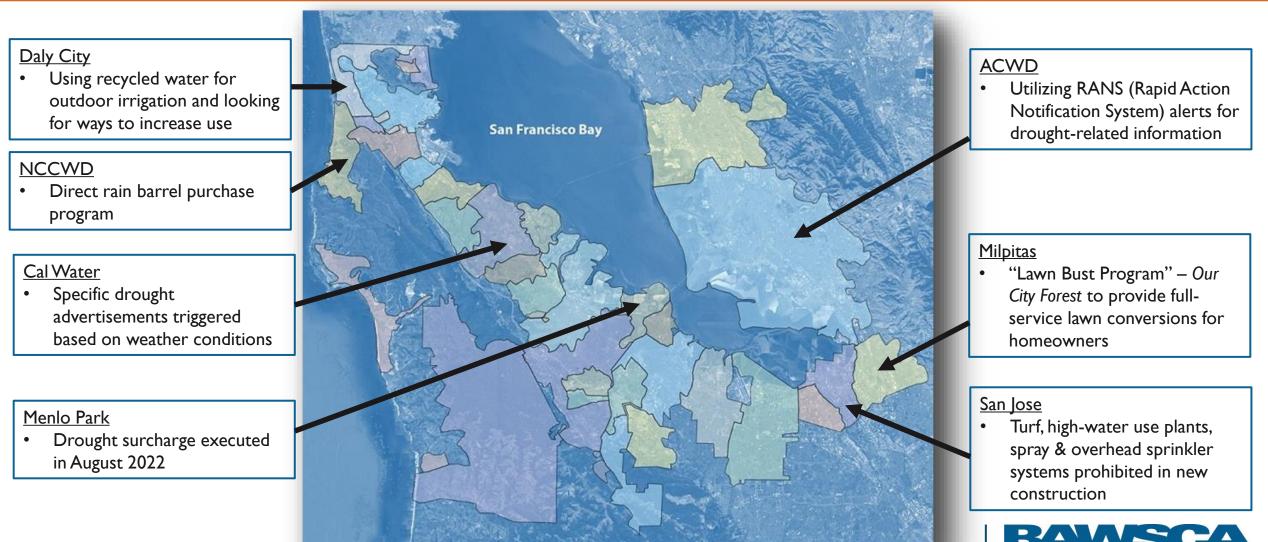
Drought Response Actions Implemented by Member Agencies

AMI (Implemented or Plans to Implement) AMI (at least 50% Implemented) Contacting Highest users Local Ordinance Prohibited Uses of Water WSCP Stage 2 or Greater Leak Alerts/Water Waste Reports Signage Waterfluence **Events/Tabling** Social Media Campaigns Postcards/Bill Inserts/General Outreach WaterSmart Participation New Staff Increased Rebate Amounts Watering Schedule - 2 Days Per Week Watering Schedule - Other Website Updates **Rebate/Conservation Programs** Non-Functional Turf Ban Other Drought Actions not listed



Number of Member Agencies Implementing

Some Unique Drought Actions Being Implemented by Member Agencies



Bay Area Water Supply & Conservation Agency

Item # 13 & 14

Closed Session





Item # 15A

Fiscal Year 2023-24 Budget Planning Session

Every drop counts. Use water wisely.



Always run a full load of laundry and save 15-45 gallons per load.



SaveOurWater.com



FY 2023-24 Work Plan and Budget Planning Session

- BAWSCA's budget process begins with an assessment of long-term critical issues and major challenges
- Long-term view allows identification of critical results and associated timeline between now and 2060
- Forms basis for FY 2023-24 Work Plan and Results to be Achieved



ltem # 15A

Table I. Future Challenges (Preliminary FY 2023-24)

AWSCA Goal and Associated Challenges	FY 2023-24 (Near-Term)	2025-2040 (Mid-Term)	2040-2060 (Long-Term)
eliable Supply: Ensure Long-Term Water Supply Reliability			
Protection of member agencies' interests in long-term water supply reliability from the SF RWS and 184 MGD Supply Assurance in light of potential areas of risk, including climate change and regulatory challenges, as presented in the Long -erm Vulnerability Analysis , and SFPUC's Alternative Water Supply Planning .	х	Х	x
Protection of member agencies' interests in SFPUC development and implementation of its Alternative Water Supply Program including oversight of scope, schedule, and budget.	х	х	Х
Protection of BAWSCA member agencies from normal and dry year supply shortages and resulting excessive economic impacts, including completion of Updated Demand Projections.	х	х	Х
Reflection of member agencies' long-term water supply needs and investments in regional planning efforts.	х	Х	Х
Support member agencies in their efforts to ensure system reliablity during an emergency.	Х	Х	Х
Representation of member agencies in Federal relicensing of New Don Pedro to protect SF RWS water supply reliability.	х	х	
Representation of member agencies in Bay Delta Plan Update to protect RWS water supply reliability.	Х	Х	
Assist member agencies in complying with the State's expanding regulatory requirements related to water use efficiency and reliability.	х	х	X
Protection of member agencies' interests in San Francisco's December 2028 decisions including deciding whether to make San Jose and Santa Clara permanent customers.	X	X	
Development of a new Tier 2 Drought Implementation Plan.	Х	Х	



Item # 15A

Table I. Future Challenges (Preliminary FY 2023-24)

BAWSCA Goal and Associated Challenges	FY 2023-24 (Near-Term)	2025-2040 (Mid-Term)	2040-2060 (Long-Term)
Reliable Supply: Ensure SF RWS Facility Reliability			
Protection of water supply and financial interests of water customers in SFPUC's development and implementation of its 10-Year CIP.	Х	Х	х
Protection of water supply and financial interests of water customers in SFPUC's asset management program to ensure ongoing maintenance and protection of RWS assets.	Х	х	х
Promote emergency resiliency of the SF RWS to protect interests of water customers.	X	X	Х
Protection of water supply and financial interests of water customers in SFPUC's WSIP implementation, <u>including</u> extension of State oversight (exp. 12/2026) and RFA capability (exp. 1/2030).	х	х	



Table I. Future Challenges (Preliminary FY 2023-24)

AWSCA Goal and Associated Challenges	FY 2023-24 (Near-Term)	2025-2040 (Mid-Term)	2040-2060 (Long-Term)
gh Quality Supply & Fair Price: Enforce 2009 Water Supply Agreement (WSA)			
Enforcement and amendment as necessary, of the WSA to ensure San Francisco meets its financial, water supply, quality, maintenance and reporting obligations.	х	Х	х
Protection of member agencies' water supply reliability interests against threats by outside forces including efforts by others to drain Hetch Hetchy that disregard their interests in reliability, quality and cost.	Х	Х	х
Protection of water customers interests in ensuring SF maintains its Tuolumne River water rights.	Х	Х	Х
Extension or renegotiation of the WSA before it expires in 2034. The WSA can be extended 2 times, for a period of 5 years each. By December 2031, SFPUC must notify Wholesale Customers of desire to extend contract.		х	x
Management of BAWSCA's revenue bonds in accordance with Bond Indenture and other applicable laws to ensure accountability and ultimately to reduce overall cost to regional water customers (thru 2034).	Х	Х	
anagement of Agency			
BAWSCA CalPERS pension & OPEB liability management			Х
Ensure Agency's near-term and long-term resiliency	<u>×</u>	<u>×</u>	X



Are There Additional Challenges That Should Be Considered?

- Table I presents major challenges thru 2060
- Invite Board comments tonight on other near and long-term issues to be considered
- Discussion of additional ideas tonight will be focused on getting clarity on comments provided, not evaluating the comment or suggestion
- Comments received tonight will be addressed by CEO in Work Plan and Budget development



Directors' Discussion: Comments, Questions and Agenda Requests



Make the change to California native plants and use less water.



SaveOurWater.com



Item # 16

Next Meeting and Adjournment

Annual Conflict of Interest Form 700 Filing

- April 3, 2023 deadline
- Electronic filing through eDisclosure
- Email was sent from
 <u>BAWSCAForm700@BAWSCA.org</u>

Next Meeting

March 16, 2023 6:30 pm

