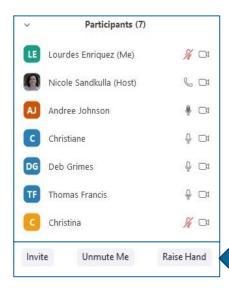
Meeting Instructions While We Gather

- You have been muted upon entry
- Please feel free to unmute yourself to say "Hi" and test your sound connection
- Please mute yourself during meeting when you are not talking
- During the meeting, BAWSCA staff will mute your sound and video if necessary
- The <u>Raise Hand</u> button is at the bottom of your "Participants" list.
- To get the "Participants" list, click on the "Participants" button at the bottom of your Zoom Screen.
- If you have technical difficulties, please text Lourdes at 650-799-3854

Bottom left corner of your screen









"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 21, 2021



Roll Call and Pledge of Allegiance





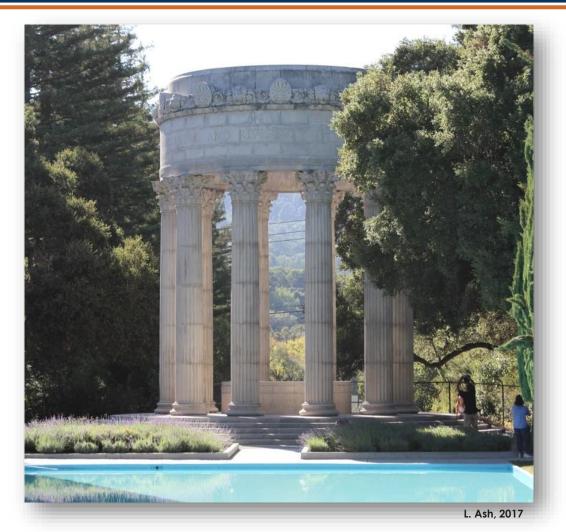
Special Order of Business – Election of Officers for Calendar Year 2021

Election rules and process to be followed in virtual meeting format

- I. Call for nominations for position of Chair
- 2. Chair will close nominations once no further names are offered
- 3. Chair will ask for public comment
- 4. If there is only one nominee, call for the vote by <u>roll call</u>
- 5. If there is more than one nominee, then proceeding alphabetically:
 - a) Ask each nominee to give a brief statement of qualifications
 - b) Directors who would like to comment on behalf of the nominee can "raise hand" on zoom. For those calling in, push *9 for the "raise hand" function
 - c) Call for a vote of those in favor of each nominee, by roll call.
 - d) Once a majority elects a nominee, the election is over.
- 6. Repeat steps for Vice Chair



Break for SF Bay Area Regional Water System Financing Authority Board of Directors Meeting





Call to Order/Roll Call

Special Order of Business

Election of Officers for Calendar Year 2021

Election rules and process to be followed in virtual meeting format

- I. Call for nominations for position of Chair
- 2. Chair will close nominations once no further names are offered
- 3. Chair will ask for public comment
- 4. If there is only one nominee, call for the vote by <u>roll call</u>
- 5. If there is more than one nominee, then proceeding alphabetically:
 - a) Ask each nominee to give a brief statement of qualifications
 - b) Directors who would like to comment on behalf of the nominee can "raise hand" on zoom. For those calling in, push *9 for the "raise hand" function
 - c) Call for a vote of those in favor of each nominee, by roll call.
 - d) Once a majority elects a nominee, the election is over.
- 6. Repeat steps for Vice Chair

Comments by Chair

Consent Calendar

Public Comment

General Manager's Report

Annual Conflict of Interest Form 700 Filing

- April 1, 2021 deadline
- Electronic filing through eDisclosure
- Email will be sent from BAWSCAForm700@BAWSCA.org

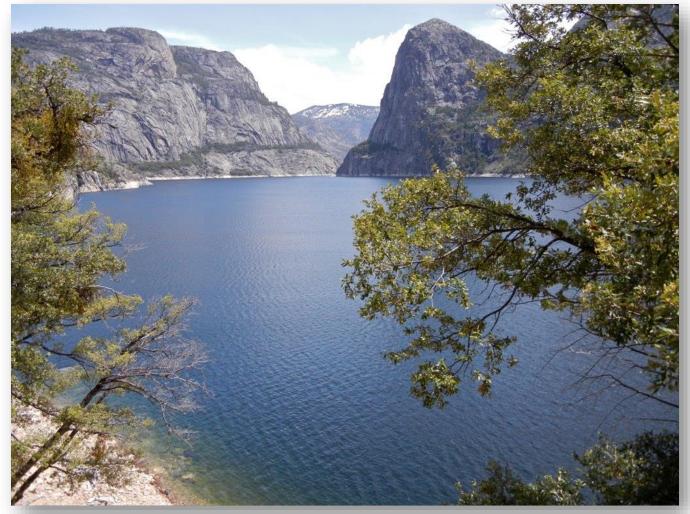
Directors' Comments

Adjourn and Return to BAWSCA Board Meeting

Next Meeting

- January 20, 2022
- Location TBD

Reconvene and Comments by the Chair



Board Policy Committee Report



S. Ritchie, 2019



SFPUC Report



Jensen, 2011





Water Supply Conditions Update

Steven R. Ritchie
Assistant General Manager, Water
January 21, 2021



January 19, 2021 Reservoir Storage

66.7%

					Normal
				Percent of	Percent of
	Current	Maximum	Available	Maximum	Maximum
Reservoir	Storage ^{1,2,3}	Storage ^{3,4}	Capacity	Storage	Storage ⁵
	(AF)	(AF)	(AF)		
<u>Tuolumne System</u>					
Hetch Hetchy	203,800	340,830	137,030	59.8%	65.4%
Cherry	192,000	268,810	76,810	71.4%	-
Eleanor	8,365	21,495	13,130	38.9%	ı
Water Bank	547,726	570,000	22,274	96.1%	98.6%
Total Tuolumne Storage	951,891	1,201,135	249,244	79.2%	-
<u>Local System</u>					
Calaveras	55,587	96,670	41,083	57.5%	1
San Antonio	44,350	53,266	8,916	83.3%	ı
Crystal Springs	52,533	58,309	5,776	90.1%	ı
San Andreas	16,224	19,027	2,803	85.3%	ı
Pilarcitos	1,683	3,030	1,347	55.5%	1
Total Local Storage	170,377	230,302	59,925	74.0%	-
Total System Storage	1,122,268	1,431,437	309,169	78.4%	81.1%
<u> </u>				_	

574,542

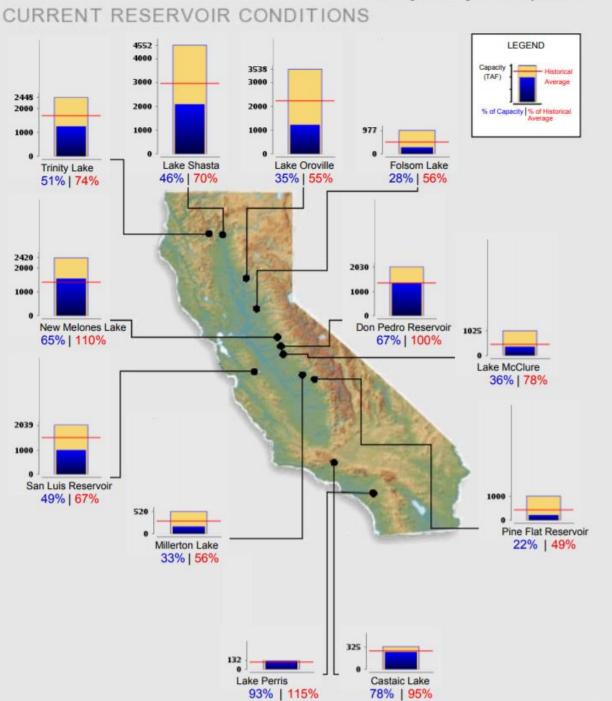
861,437

286,895

Total without water bank

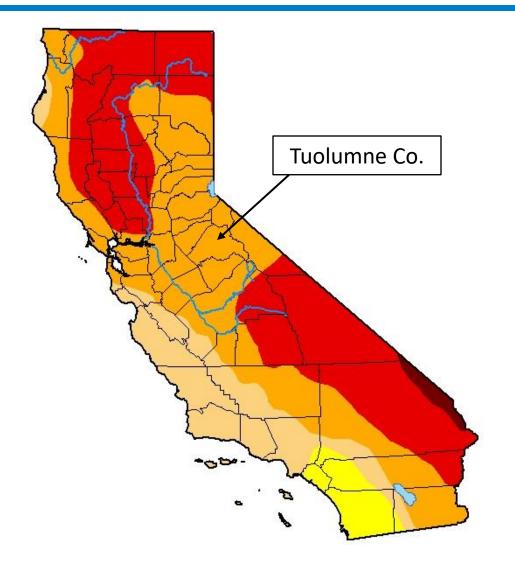


Other California Reservoirs





California Drought Monitor January 12, 2021



Intensity:

None

D0 Abnormally Dry

D1 Moderate Drought

D2 Severe Drought

D3 Extreme Drought

D4 Exceptional Drought

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:

Deborah Bathke National Drought Mitigation Center





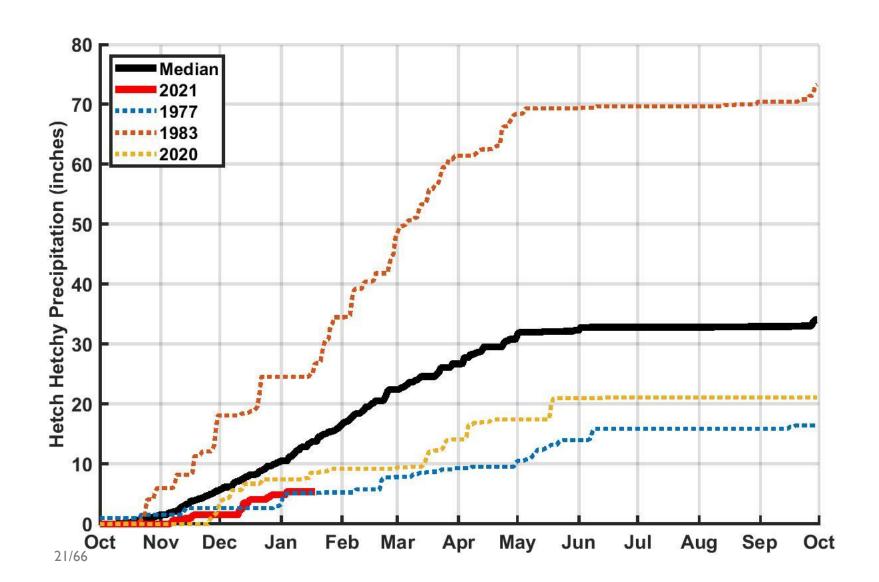




droughtmonitor.unl.edu

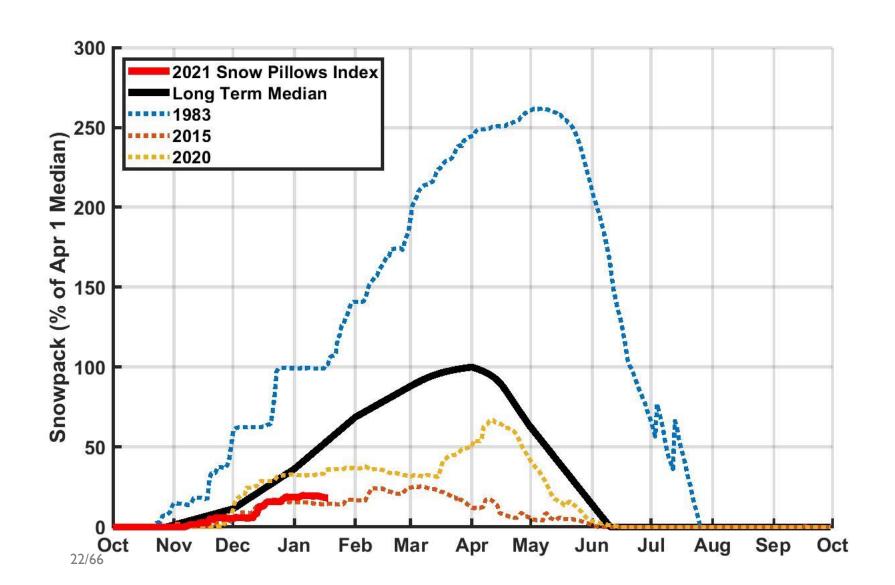


Hetch Hetchy Precipitation



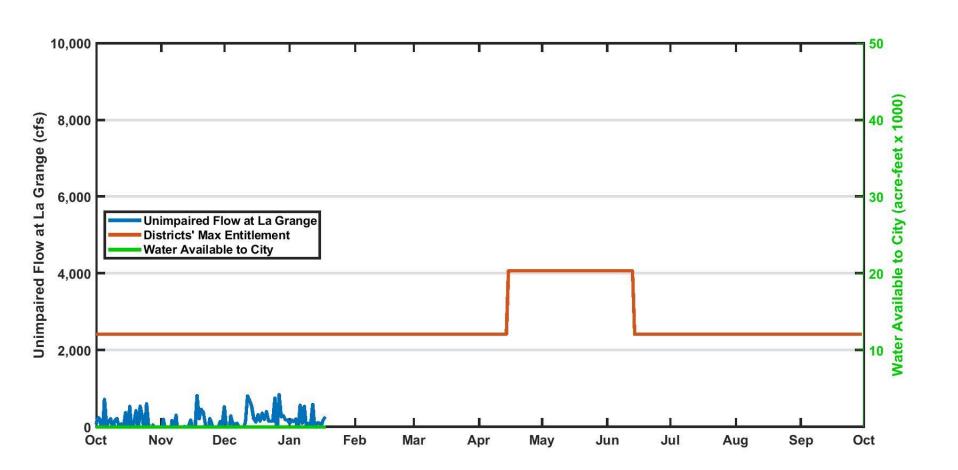


Upcountry Snowpack



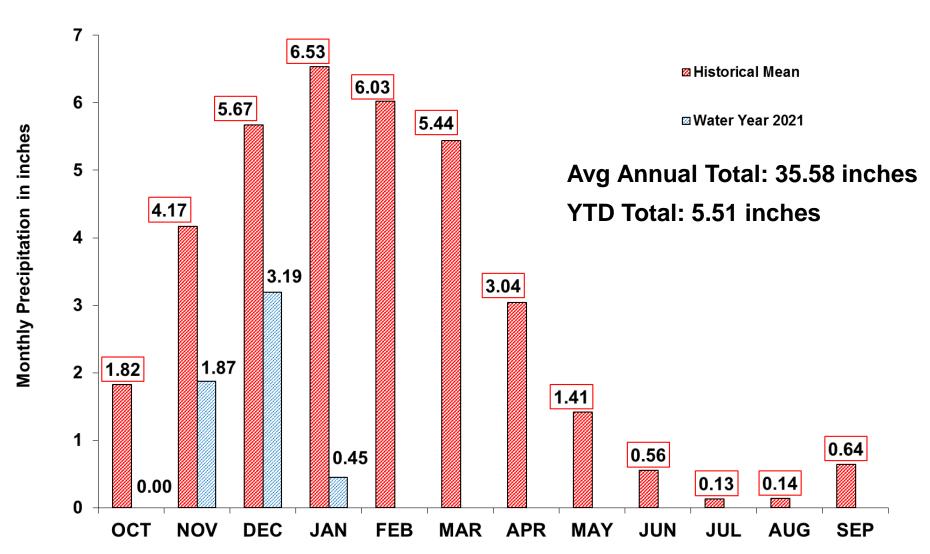


Water Available to the City



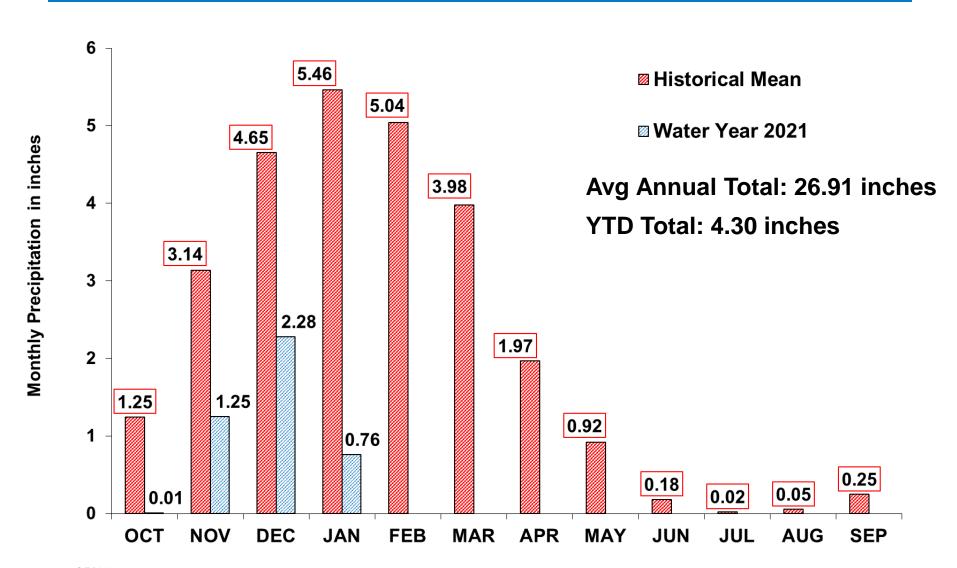


Upcountry 6-station Precipitation Index as of January 18, 2021



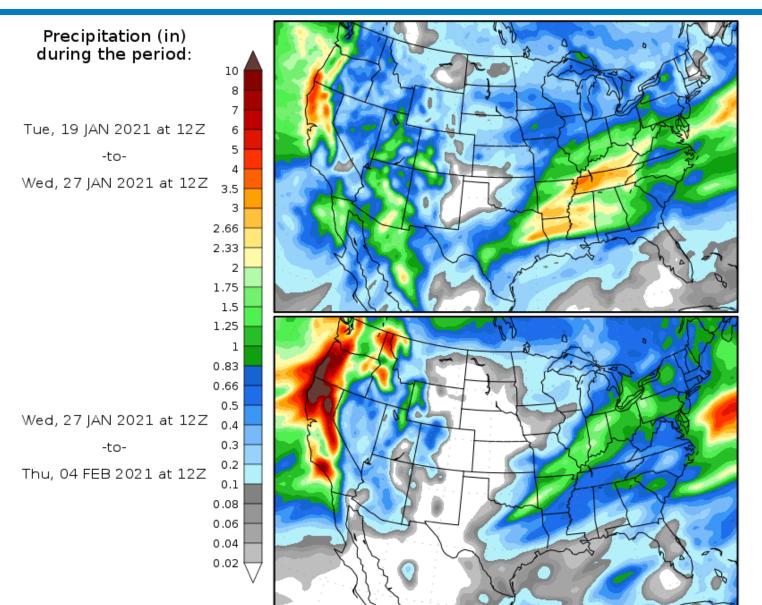


Bay Area 7-station Precipitation Index as of January 18, 2021





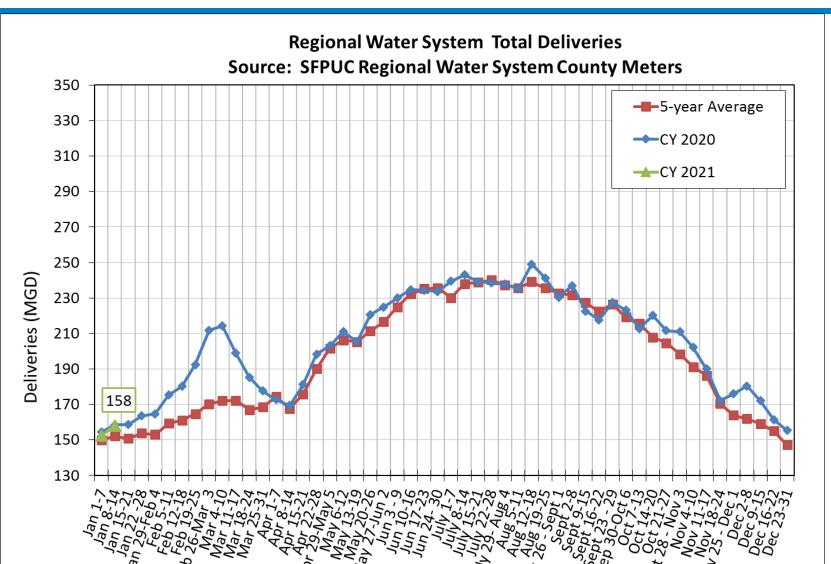
National Precipitation Forecast





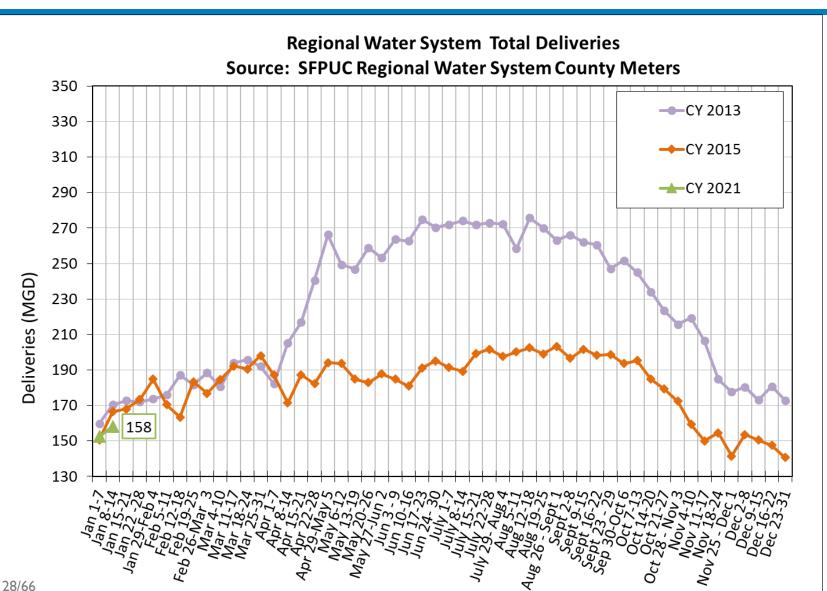
27/66

Total Deliveries





Total Deliveries



Public Comment







Consent Calendar



New Calaveras Dam – May 2019



Action Calendar



Jensen, 2011



Mid-Year Work Plan Review Identifies Need for Scope Change

- Table I presents a status update on FY 2020-21 Work Plan
- Implementation of Work Plan on schedule and on budget
- Two changes to the Work Plan scope are identified
 - I. <u>Continue development</u> of the Potable Reuse Exploratory Plan (PREP) Phase 3 Study for completion in FY 2021-22
 - Task originally anticipated completion of PREP Phase 3 in FY 2020-21
 - Progress on Phase 3 has been delayed with the project MOU currently being amended as necessary to complete Phase 3 work.
 - 2. Reduce planned effort to implement 2 new subscription conservation programs in FY 2020-21
 - Task originally anticipated implementing 3 to 4 new subscription conservation programs
 - The residential self audit tool and irrigation hardware rebates is on track
 - The landscape area measurements program and the leak detection/certification program are delayed



Reliable Water Supply (1 of 5)

STATUS	BAWSCA OBJECTIVE & FY 2020-21 WORK PLAN ITEM
1. Facilit	y Reliability: Monitor the SFPUC's WSIP, 10-Year CIP, and Asset Management Program
✓	a. Monitor WSIP scope, cost, and schedule
\checkmark	b. Review and monitor SFPUC's Regional 10-Year Capital Improvement Program
\checkmark	c. Review and monitor SFPUC's Asset Management Program
✓	d. Promote increased emergency response coordination between member agencies, SFPUC, Valley Water and others.

[!] Needs Attention ○ Experiencing Delay ✓ Complete/On Track ★ Extraordinary Result/Effort



Reliable Water Supply (2 of 5)

STATUS	BAWSCA OBJECTIVE & FY 2020-21 WORK PLAN ITEM			
2. Long-Term Supply Solutions: Implement BAWSCA's Strategy				
0!	a. Complete Potable Reuse Exploratory Plan Phase 3 pre-feasibility study with SFPUC and Silicon Valley Clean Water and plan for next phase of work			
	Proposed Work Plan Modification: Continue development of PREP Phase 3 Study for completion in FY 2021-22.			
\bigcirc	b. Participate in development of Bay Area Regional Reliability Phase 2 Water Marketing Strategy			
✓	c. Participate in CCWD's Los Vaqueros Expansion Project Studies			
\checkmark	d. Promote the continued sustainable use of San Mateo Plain Groundwater Basin			
✓	e. Facilitate development of other local water supply options including monitoring/tracking member agency efforts			
✓	f. Provide necessary data & assistance to support member agencies' development of state required Urban Water Management Plans			
✓	g. Participate with SFPUC and ACWD in their evaluation of a potential potable reuse water supply project with Union Sanitary District.			
✓	h. Identify and begin to evaluate the steps BAWSCA should undertake to update its Long-Term Water Supply Strategy			

! Needs Attention ○ Experiencing Delay ✓ Complete/On Track ★ Extraordinary Result/Effort



Reliable Water Supply (3 of 5)

STATUS	BAWSCA OBJECTIVE & FY 2020-21 WORK PLAN ITEM			
3. Near-term Supply Solutions: Water Conservation and Drought Response				
✓	a. Represent member agency interests in regional and statewide discussions on the development of and compliance with California's "Making Water Conservation a Way of Life" requirements			
√	b. Provide regional coordination to support member agency Advanced Metering Infrastructure (AMI) implementation and data management, including hosting a regional symposium in Spring 2021			
!	c. Implement 3 to 4 new subscription conservation programs Proposed Work Plan Modification: Implement 2 new subscription conservation programs in Spring 2020 and continue development of 1-2 more new programs for future possible implementation.			
\checkmark	d. Implement BAWSCA's core water conservation programs			
✓	e. Implement BAWSCA's subscription conservation rebate programs			
\checkmark	f. Implement BAWSCA's Water Loss Management Program			
✓	g. Represent member agencies in regional and State-level discussions related to water conservation-related regulations			

! Needs Attention ○ Experiencing Delay ✓ Complete/On Track ★ Extraordinary Result/Effort



Reliable Water Supply (4 of 5)

STATUS	BAWSCA OBJECTIVE & FY 2020-21 WORK PLAN ITEM			
4. Take Actions to Protect Members' Water Supply Interests in the Administration of the 2009 WSA				
✓	a. Adopt temporary extension of existing Tier 2 drought allocation plan that expires Dec. 2020			
✓ ★	b. Forward for adoption, if acceptable to the member agencies and SFPUC, an amendment to the Water Supply Agreement related to a paired transfer of an agency's minimum purchase requirement and Individual Supply Guarantee			
✓	c. Protect members' water supply and financial interests in the SFPUC's 2028 decisions			
\checkmark	d. Protect member agencies' water supply interests to ensure that the SFPUC meets its legal and contractual obligations			
5. Protec	5. Protect Members' Interests in a Reliable Water Supply			
✓★	a. Participate in SWRCB Bay Delta Plan Update			
✓ ★	b. Participate in the Don Pedro Project/La Grange Project FERC licensing process			
6. Pursu	6. Pursue Grant Opportunities Independently and in Coordination with Regional Efforts			
✓	a. Pursue and use grant funds for water conservation programs and for regional supply projects and programs			
\checkmark	b. Pursue, with regional partners, grant funding to support studies that aim to improve regional water supply reliability			
✓	c. Investigate potential for grant funds to support the implementation of the Strategy			

! Needs Attention ○ Experiencing Delay ✓ Complete/On Track ★ Extraordinary Result/Effort



Reliable Water Supply (5 of 5)

ST	ATUS	BAWSCA OBJECTIVE & FY 2020-21 WORK PLAN ITEM		
7.	7. Reporting and Tracking of Water Supply and Conservation Activities			
	✓	a. Complete BAWSCA FY 2019-20 Annual Survey		
	✓	b. Complete BAWSCA FY 2019-20 Annual Water Conservation Report		
	✓	c. In partnership with member agencies, operate and maintain BAWSCA's Water Conservation Database		

! Needs Attention ○ Experiencing Delay ✓ Complete/On Track ★ Extraordinary Result/Effort



High Quality Water (I of I)

STAT	TUS	BAWSCA OBJECTIVE & FY 2020-21 WORK PLAN ITEM
8. <u>S</u>	Suppo	ort Member Agencies in Receiving Reliable Communication of Water Quality Issues
✓		a. Coordinate member agency participation in Joint Water Quality Committee
✓		b. Relay important water quality information to BAWSCA member agencies
✓		c. Review and act on, if necessary, State legislation affecting water quality regulations

! Needs Attention ○ Experiencing Delay ✓ Complete/On Track ★ Extraordinary Result/Effort



Fair Price (I of I)

STATUS	BAWSCA OBJECTIVE & FY 2020-21 WORK PLAN ITEM				
9. Perform Matters that Members Delegated to BAWSCA in the WSA					
✓	a. Administer the WSA with SF to protect the financial interests of member agencies.				
✓	b. Administer bonds issued by BAWSCA to retire capital debt owed to San Francisco				
10. Maintain Community Allies and Contacts with Environmental Interests					
✓	a. Maintain close relationships with BAWSCA's local legislators and allies				
✓	b. Maintain a dialogue with responsible environmental and other groups				
✓	c. Maintain effective communications with member agencies, customers, & others				
✓	d. In conjunction with San Francisco, conduct or co-sponsor tours of the water system				
11. Manage the Activities of the Agency Professionally and Efficiently					

! Needs Attention ○ Experiencing Delay ✓ Complete/On Track ★ Extraordinary Result/Effort



No Changes to General Reserve are Recommended as Part of This Mid-Year Review

\$1,037,877 General Reserve balance as of June 30, 2020

-\$333,900 May 2020 approved transfer to Operating Fund

FY 2018-19 Unspent Funds transferred to General

+\$435,266 Reserve Nov. 2020

\$1,139,243 General Reserve balance as of Dec. 9, 2020 28% of FY 2020-21 Operating Budget



Recommended Action

That the Board approve the proposed modification of Work Plan Item 2a "PREP Phase 3" and Item 3c "Implement New Subscription Programs" in the FY 2020-21 Work Plan.



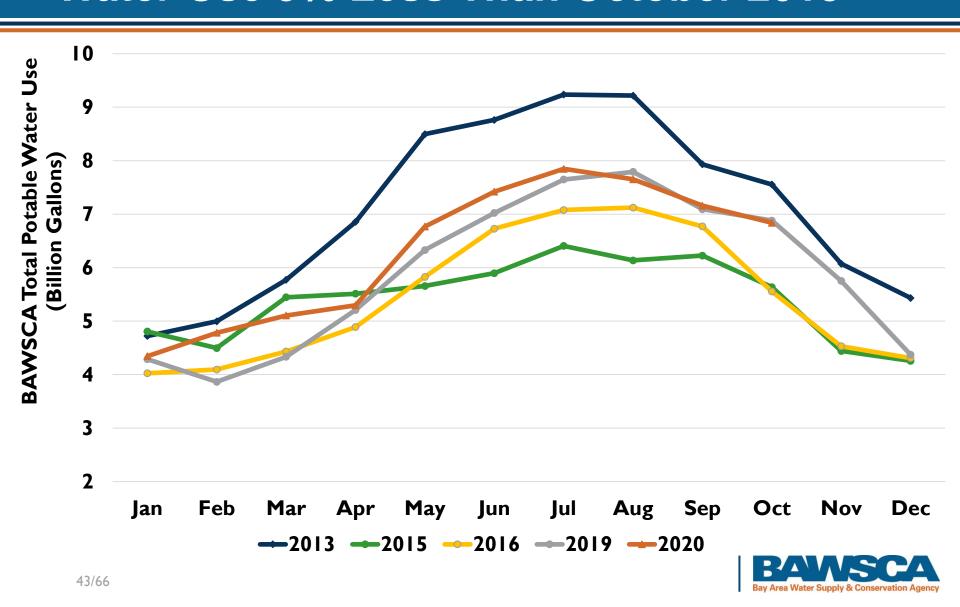
Reports



Jensen, 2011



BAWSCA October 2020 Total Potable Water Use 9% Less Than October 2013



New Regional Demand Projections Will Be Used For Regional Water Planning Work

- BAWSCA's Regional Demand and Conservation Projections Study completed in June 2020
 - Customized projection model for each member agency based on local policies, adopted land uses, and other characteristics that impact water use
 - Population projections rely on ABAG and adopted land use plans
- Study provides critical information to support water resources planning
 - Projected demand through 2045 at agency and regional level
- Agencies asked to identify how they will meet projected demand
 - E.g., how much SF Regional Water System supply, additional conservation, groundwater, recycled water, etc.
 - This task recently completed and information provided to the SFPUC
- This information will be critical to
 - Inform individual agency and SFPUC Urban Water Management Plans
 - Support SFPUC's Alternative Water Supply Planning work
 - Support BAWSCA's work on regional water planning

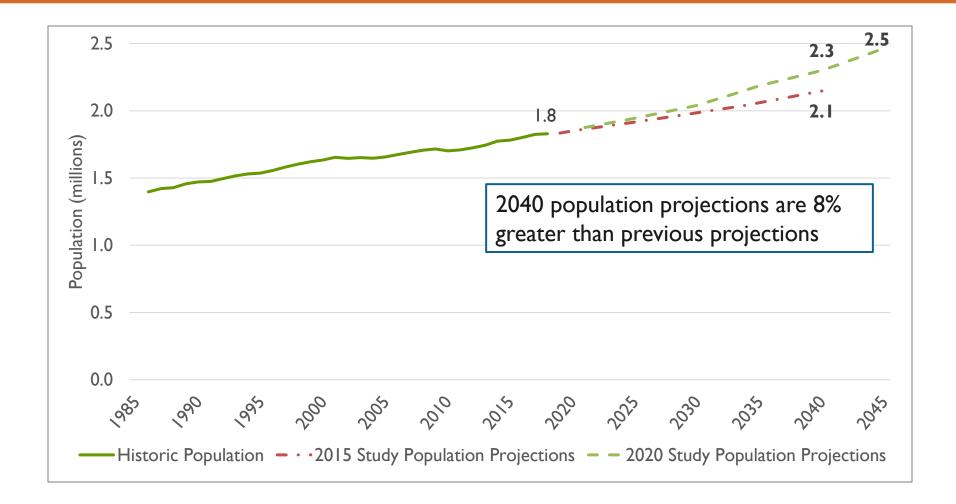


BAWSCA's Demand Study Utilizes Best Practices for Assessing Future Demands

- Uses a comprehensive, end use ('bottom up') approach
 - Considers building age, end use/fixture efficiency, change outs/upgrades over time
 - Accounts for differences between customer classes (e.g., single family residential, multifamily residential, commercial, irrigation, etc.)
- Utilizes an econometric approach for certain aspects, including post-drought water use rebound and climate change
- Accounts for uncertainty by providing multiple scenarios and a range of possible demands
- Relies on locally approved development and land use plans
- Incorporates region specific climate change scenarios to estimate impact on future demand
- Accounts for new efficient water use technology and a suite of conservation programs specific to each Member Agency
- Engaged a Stakeholder Workgroup to solicit and incorporate feedback on conservation measure selection and analysis components

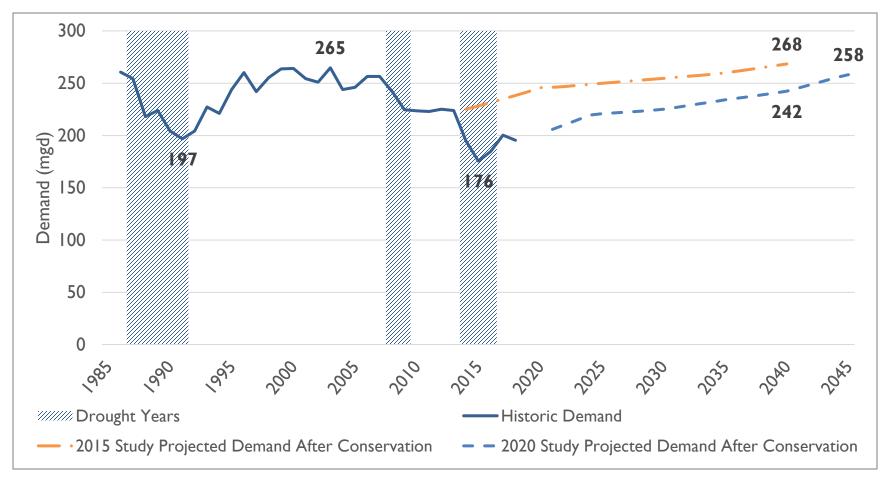


BAWSCA Regional Population is Projected to Increase by 31% to 2.5 Million People in 2045





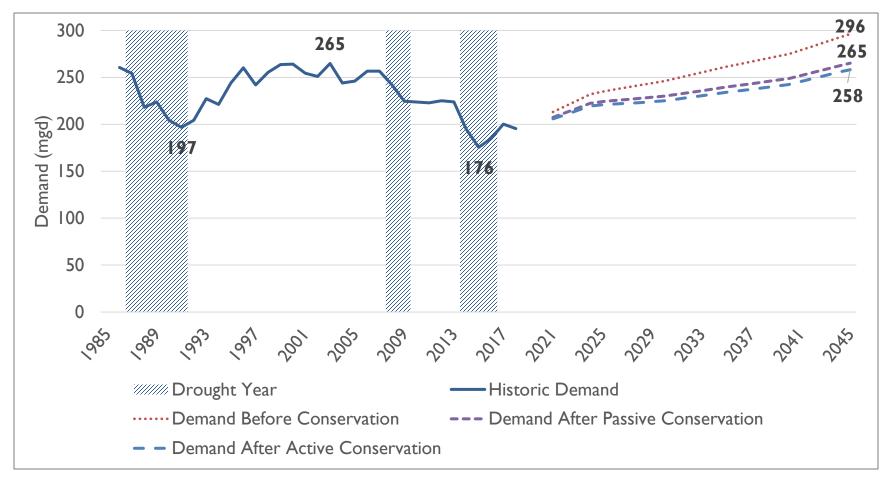
2045 Demand is Projected to be 5% Less Than Prior 2040 Demand Projection



^{* 2020} Study includes recycled water



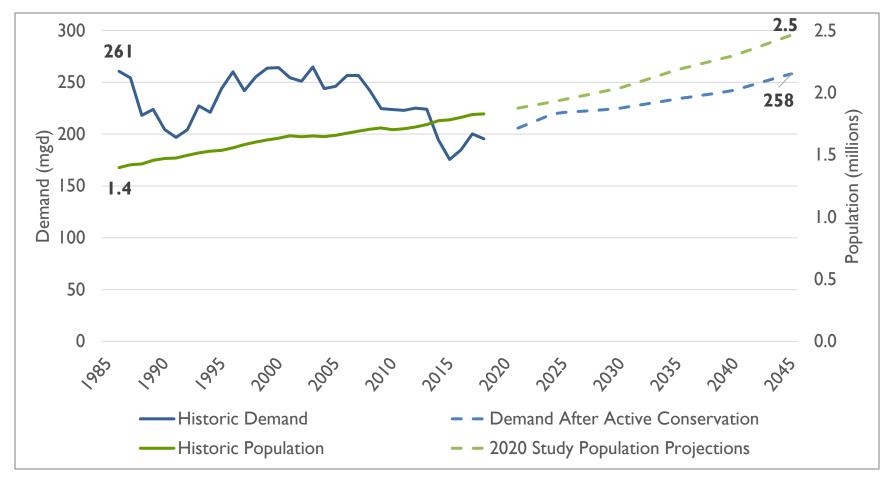
Conservation Reduces Projected 2045 Demand by 13%



^{*} Includes recycled water



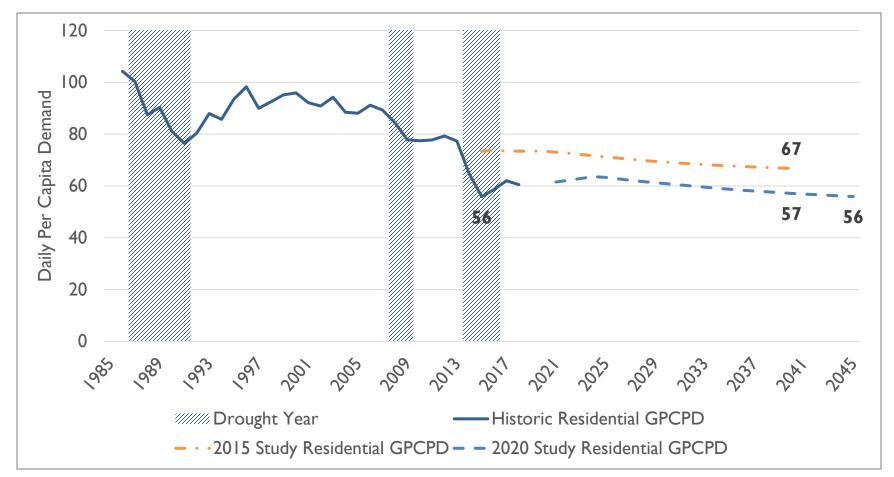
From 1986 to 2045, Projected Population Increases by 76% While Demand Decreases by 1%



^{*} Includes recycled water



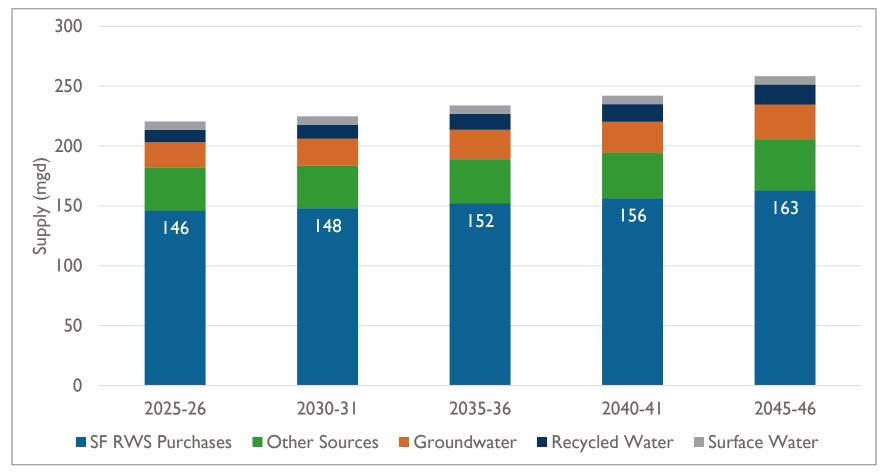
Residential Per Capita Use in 2045 Projected to Be Equal to Lowest Recorded Use on Record for Region



^{*} Stanford not included. Includes dedicated irrigation when specifically assigned to residential customer class



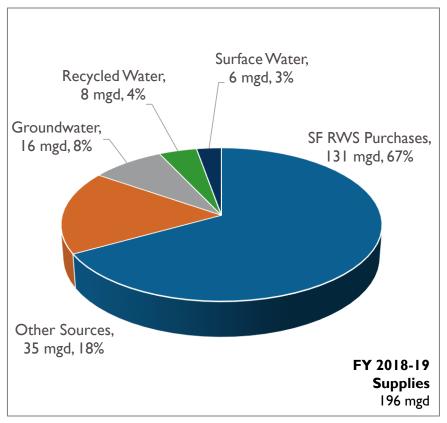
Purchases From SF Regional Water System Projected to Stay Below 184 MGD Supply Assurance thru 2045

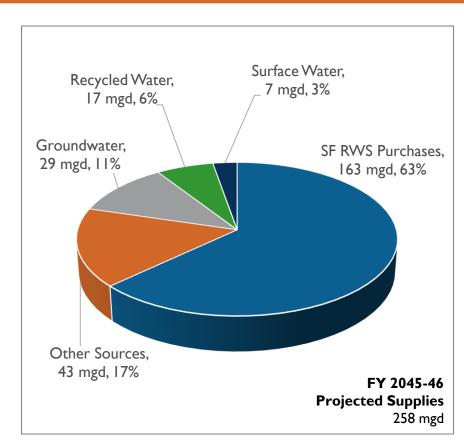


^{*} San Jose and Santa Clara included



BAWSCA Agencies Project Increased Use of Local Supplies to Meet Future Demand





* San Jose and Santa Clara included



BAWSCA Will Continue to Update Demand Projections for Planning Efforts and 2020 UWMPs

- BAWSCA continues provide data necessary for UWMPs to member agencies
- Member agencies will use this data to update their UWMPs by July 1, 2021
- Demand projections have been shared with the SFPUC for use in its 2020 UWMP update
- Preliminary Work Plan for FY 2021-22 will propose a "refresh" of Water Demand Projections
 - Reflect actions and information in agencies' final UWMPs
 - Examine long-term impacts of pandemic and recession
 - Analyze new climate change information
- This would provide most robust, updated demand projections for regional planning purposes



New Don Pedro FERC Relicensing Update

- July 2020 Final Environmental Impact Statement (FEIS) released
 - Identified the Tuolumne River Voluntary Agreement (TRVA) as the preferred FERC alternative
 - Several parties have submitted comments to FERC
 - SFPUC and BAWSCA are coordinating on potential additional comments
- Critical procedural steps regarding water quality certification of FERC action are ongoing
 - State Board and FERC both engaged in this process
- BAWSCA closely monitoring this issue



BAWSCA Has a History of Active Engagement in Tuolumne River Issues and Bay Delta Process

- BAWSCA has been actively involved in fishery studies on the Tuolumne River, the FERC process, and the State Board Bay-Delta Plan since the agency's formation
- Early staff engagement in technical workgroups and other stakeholder processes
- Feedback provided through regular briefings with Board and member agencies have informed agency direction
- BAWSCA and its member agencies continue to
 - Support Bay-Delta Plan objectives
 - Be committed to working with other stakeholders to protect water quality in the Bay-Delta for humans, fish and other wildlife
 - Support voluntary agreements to resolve this critical issue



TRVA is Ready for Analysis by State Board as an Alternative to Bay Delta Plan

- BAWSCA remains focused on having the State Board perform a technical and environmental evaluation of the Tuolumne River Voluntary Agreement (TRVA)
- TRVA is a better alternative to meet the Bay-Delta Plan objectives compared to the adopted Bay-Delta Plan
 - An integrated group of additional Tuolumne River flow & non-flow measures that will substantially increase the in-river production of salmon while providing reasonable protection for water supply critical to BAWSCA's agencies.
 - Avoids the huge water-supply impact of the Plan on BAWSCA's constituents while meeting the Plan's objectives and providing critically needed benefits for Tuolumne River fish and habitat.
- TRVA has been analyzed in a separate federal environmental analysis and identified as the preferred alternative
- BAWSCA continues coordination with SFPUC and others
 - February 5 SFPUC Workshop on science supporting TRVA
- Governor Newsom's leadership is critical to resolution of this issue



Closed Session





FY 2021-22 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
- Forms basis for FY 2021-22 Work Plan and Results to be Achieved



Table I. Future Challenges (Preliminary FY 2021-22)

BAWSCA Goal and Associated Challenges	FY 2021-22 (Near-Term)	2022-2035 (Mid-Term)	2035-2050 (Long-Term)
Reliable 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 identified potential areas of risk, including climate change and regulatory challenges, and SFPUC's Alternative Water Supply Planning and assocated CEQA initiation by June 2023.	X	X	X
Protection of BAWSCA member agencies from normal and dry year supply shortages and resulting excessive economic impacts.	X	X	X
Reflection of member agencies' long-term water supply needs and investments in regional planning efforts.	X	X	X
Support member agencies in their efforts to ensure system reliablity during an emergency.	X	Х	X
Representation of member agencies in Federal relicensing of New Don Pedro to protect SF RWS water supply reliability.	X	X	
Representation of member agencies in Bay Delta Plan Update to protect RWS water supply reliability.	X	X	
Meeting the new Statewide "Making Water Conservation a California Way of Life" requirements thru 2035, including new Water Efficiency Targets to be finalized by June 2022	X	Х	
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 allocation plan.	X	Х	



Table I. Future Challenges (Preliminary FY 2021-22)

BAWSCA Goal and Associated Challenges	FY 2021-22 (Near-Term)	2022-2035 (Mid-Term)	2035-2050 (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.	X	Х	X
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.	X	X	X
Promote emergency resiliency of the SF RWS to protect interests of water customers.	X	Х	Х
Protection of water supply and financial interests of water customers in SFPUC's WSIP implementation.	X	X	



Table I. Future Challenges (Preliminary FY 2021-22)

BAWSCA Goal and Associated Challenges	FY 2021-22 (Near-Term)	2022-2035 (Mid-Term)	2035-2050 (Long-Term)
High 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.	X	X	X
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.	X	Х	X
Protection of water customers interests in ensuring SF maintains its Tuolumne River water rights.	X	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.		X	X
Management of BAWSCA's revenue bonds, including consideration of refinancing (based on current analysis <u>as of 12/1/2020, this will be no earlier than 2023</u>), in accordance with Bond Indenture and other applicable laws to ensure accountability and ultimately to reduce overall cost to regional water customers (thru 2034).	X	X	
Management of Agency		,	,
BAWSCA CALPERS pension & OPEB liability management			Х



Are There Additional Challenges That Should Be Considered?

- Table I presents major challenges thru 2050
- 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



Approach for FY 2021-22 Work Plan and Budget Development

February BPC

- CEO will present recommended list of issues to be addressed and results to be achieved, including responding to ideas raised in January
- CEO will present "big picture" budget issues
- March Board Meeting
 - Meeting materials will include CEO's recommendations for issues to be addressed, results to be achieved, and feedback from BPC
 - CEO will address outstanding issues & present Preliminary Work
 Plan and Budget
- April BPC and May Board Meeting
 - Review and consider Proposed Work Plan & Budget



Directors' Discussion: Comments, Questions, and Agenda Requests



Jensen, 2011



Announcement & Adjournment

Annual Conflict of Interest Form 700 Filing

- April 1, 2021 deadline
- Electronic filing through eDisclosure
- Email reminder as been sent from BAWSCAForm700@BAWSCA.org

Next Board Meeting

• March 18, 2021

• Time: 6:30 pm

Location: "Virtual" Zoom Meeting



Adjourn

