

Water Supply Update

Board of Directors March 23, 2021



Presentation Outline

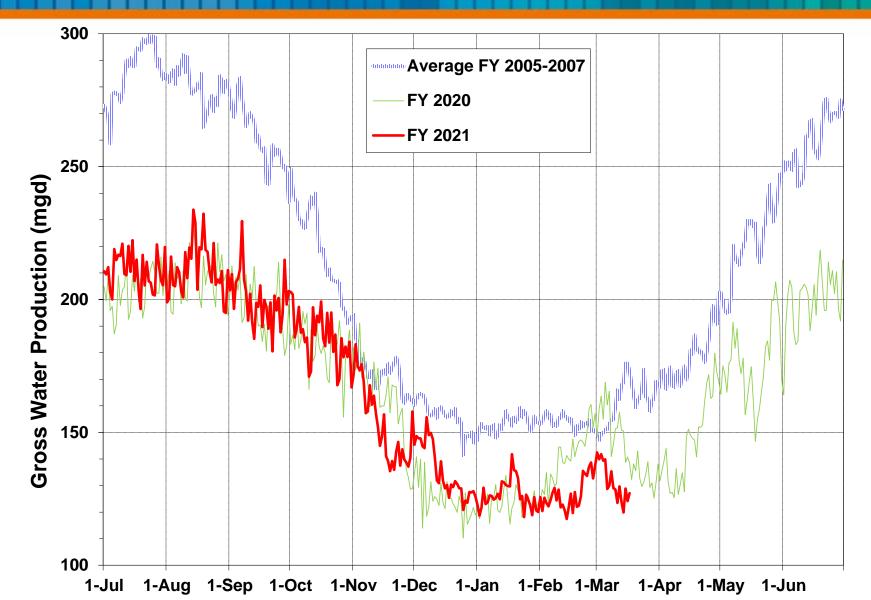


- · Current Water Supply
- · California Water Supply
- Water Supply Projections



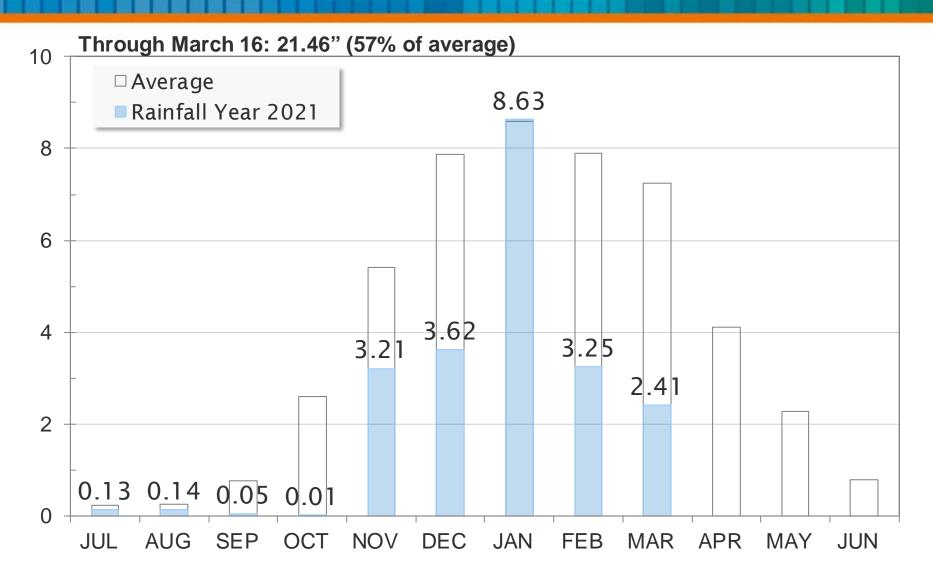
Current Water Supply Gross Water Production





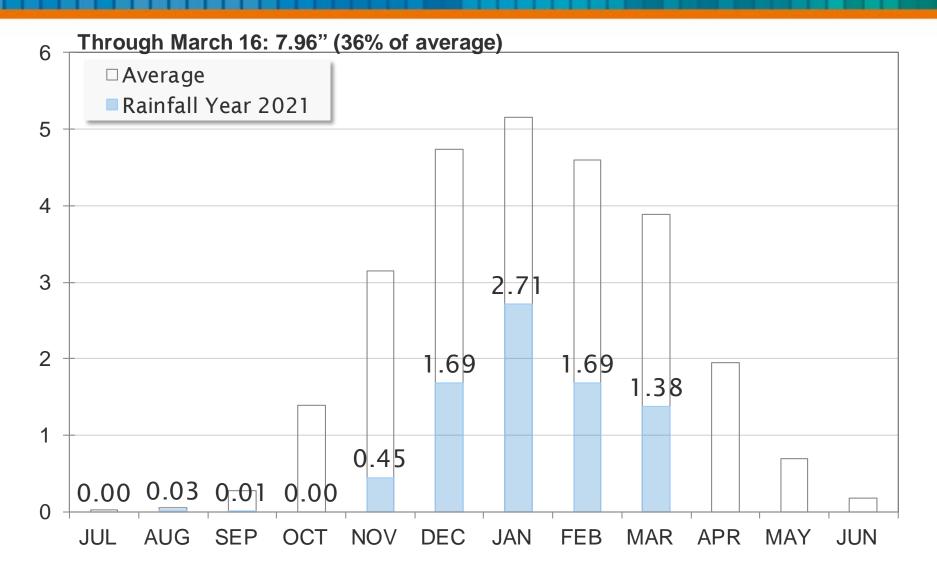
Current Water Supply Mokelumne Precipitation





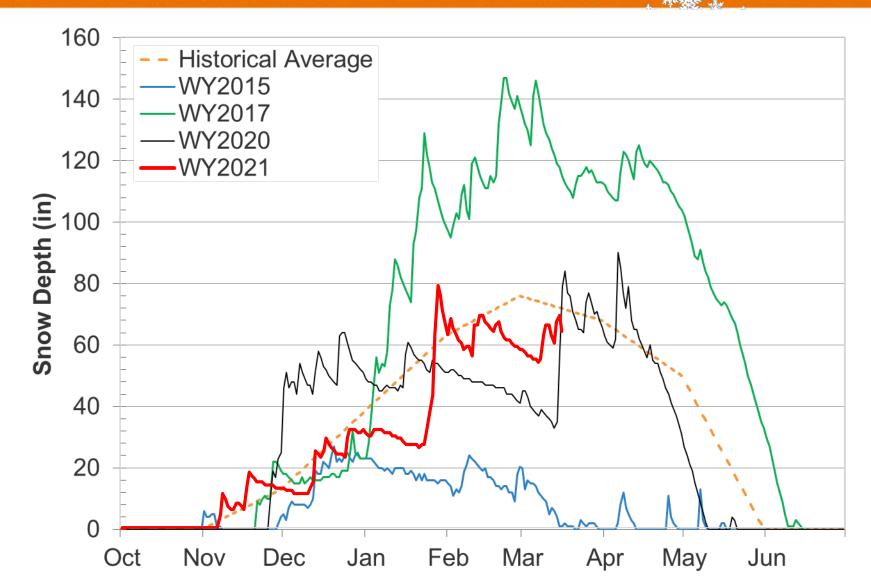
Current Water Supply East Bay Precipitation





Current Water Supply Caples Lake Snow Depth



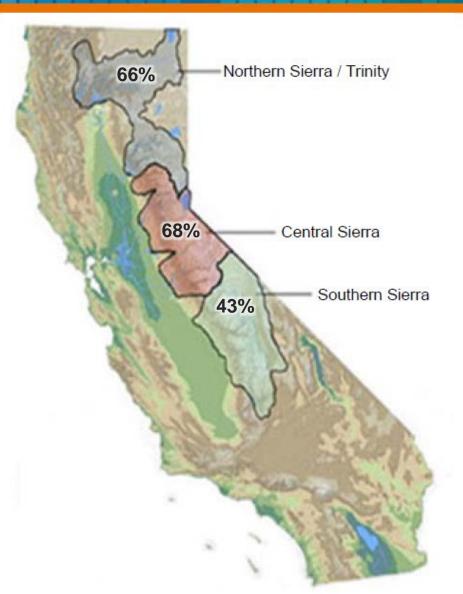


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Water Supply Projections Automated Sensor Snow Water Equivalents



Data for: 16-March-2021 % Normal for this Date





Current Water Supply Reservoir Storage

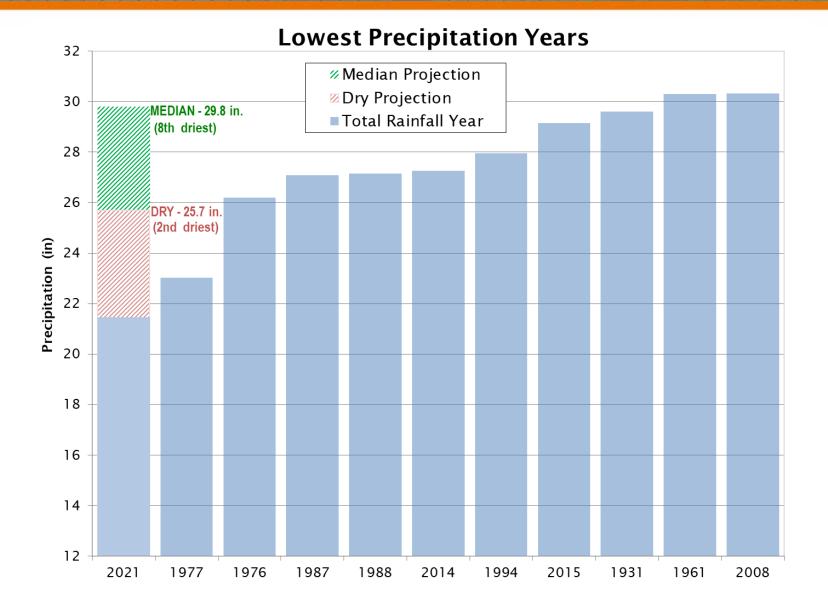




As of 3/16/2021	Current Storage	Percent of Average	Percent of Capacity
Pardee	189,950 AF	103%	93%
Camanche	245,560 AF	86%	59%
East Bay	116,050 AF	85%	77%
Total System	551,560 AF	91%	72%

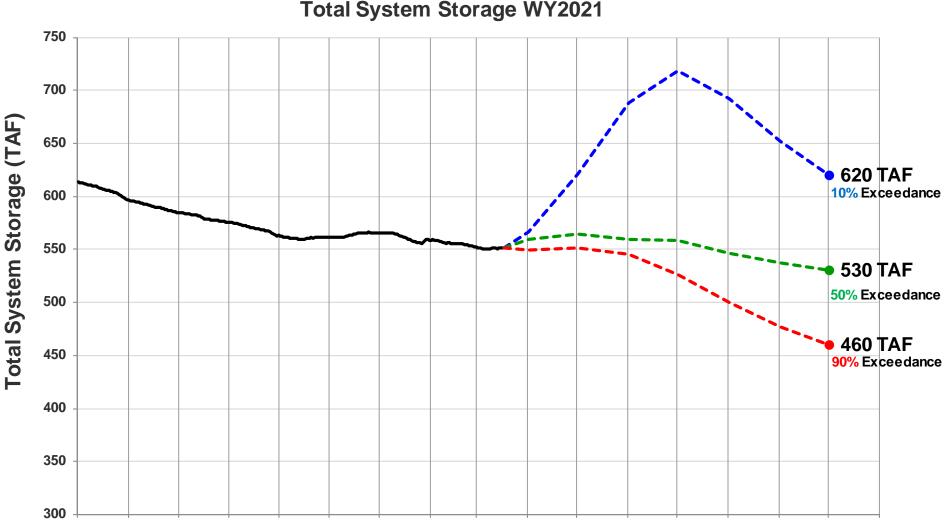
Water Supply Projections Dry Year Precipitation Comparison





Water Supply Projections Projected 2021 EBMUD Total System Storage





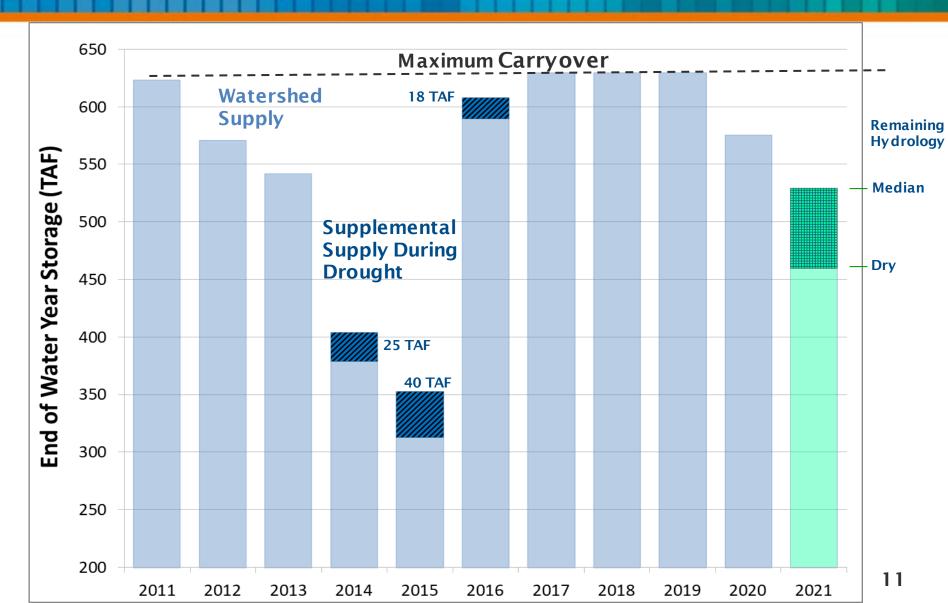
Jul-20 Aug-20 Sep-20 Oct-20 Nov-20 Dec-20 Jan-21 Feb-21 Mar-21 Apr-21 May-21 Jun-21 Jul-21 Aug-21 Sep-21 Oct-21

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Water Supply Projections



Carryover Storage





- In second drought year, CVP allocations were much lower and transfer costs much higher.
- District should consider taking more CVP supplies earlier in the drought when available

Contract year (Mar-Feb)	2014	2015		
CVP allocation	66 TAF (50%)	33 TAF (25%)		
CVP water cost	\$75 per AF	\$75 per AF		
PCWA transfer cost	\$75 per AF	\$500 per AF		
Transfer market cost	N/A	\$700 per AF		
Freeport diversions (CVP and transfers)	23 TAF	58 TAF		

All values are approximate.

2021 Supply Considerations



- · CVP M&I allocation 55% (73 TAF)
- Placer County Water Agency (PCWA) transfer may be available at higher price than CVP, approx. 10 TAF
- EBMUD's Freeport capacity is approximately
 8.5 TAF per month
- District could divert 73 TAF from June through February
- No prediction on 2022 water availability

Water Supply Plan if Dry Conditions Continue



Demand Reduction

· Voluntary rationing up to 10 or 15 per cent

<u>And</u>

Supplemental Supply Options (using Freeport):

- Purchase CVP water up to 73 TAF
- Purchase water from Placer County Water Agency approx. 10 TAF

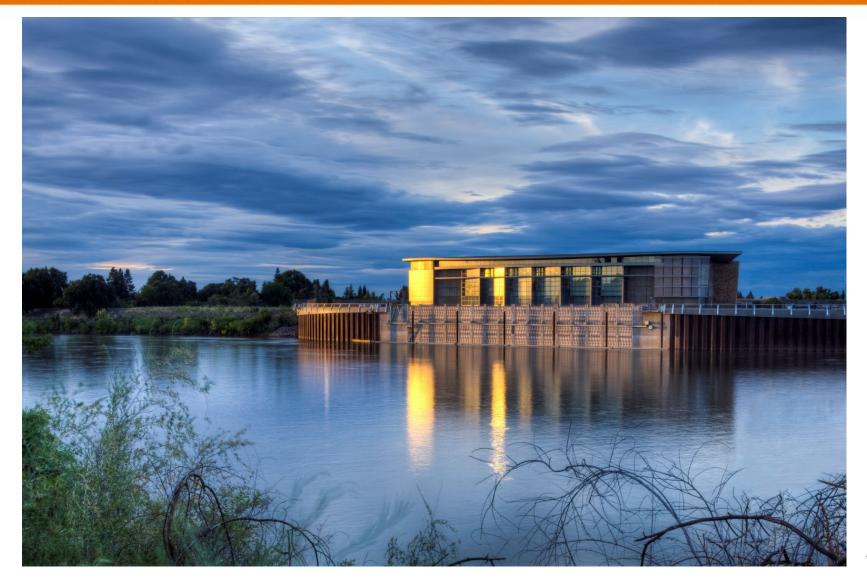




- Early April Results of April 1 DWR snow survey
- April 13 Board meeting Water supply update, supply alternatives and costs
- April 27 Board meeting Water Supply Availability and Deficiency Report, consideration of demand reduction and supplemental supply actions

Questions?





WATER SUPPLY ENGINEERING DAILY REPORT

Sunday, March 21, 2021

RESERVOIR STORAGE AND ELEVATION

		SURFACE	STORAGE		MAXIMUM CAPACITY			D 1	a .'II
MOVELLIMNE	Elevation	+Gain	A a Et	+Gain	Elevation	Storage		Release	Spill
MOKELUMNE	<u>Feet</u>	<u>-Loss</u>	<u>Ac-Ft</u>	<u>-Loss</u>	<u>Feet</u>	<u>Ac-Ft</u>		<u>Cfs</u>	<u>Cfs</u>
Pardee	561.7	0.14	190800	300	567.65	203795		92 226	0
Camanche	209.53	-0.04	244520	-230	235.5	417120		236	0
EAST BAY Briones	565.65	0.15	51800	100	576.14	58960		0	0
Chabot	220.39	0.13	8160	0	227.25	10350		0	0
Lafayette	434.99	-0.01	2620	0	449.16	4250		0	0
San Pablo	302.74	-0.01	29370	-20	313.68	37915		0	0
Upper San Leandro	438.76	0.08	<u>25030</u>	-20 <u>40</u>	459.98	<u>38905</u>		0	0
Total East Bay Res.	150.70	0.00	<u>116980</u>	<u>120</u>	159.90	<u>150380</u>		Ū	0
TOTAL SYSTEM STORAG	GE		552300	190		771295			
DISTRIB	UTION SYS	STEM		MOKELUMNE SYSTEM					
DISTRIBUTION RESERVOIRS			AQUEDUCT DELIVERIES						
		Storage	Operating			MG		Flow Con	ditions
		MG	Capacity		Line 1	37.1		GRAV	ITY
Today		368	720		Line 2	48.9		GRAV	ITY
Total Previous Day		<u>374</u>			Line 3	<u>92.8</u>		THROT	TLE
Total Change		-6			TOTAL	178.8		277 0	Cfs
					FSCC to MOR	AQUEDU	CTS (Mea	sured at Bra	<u>ndt), MG</u>
WATER PRODUCTION		Million	Capacity		Mok 1	0			
AND DEMAND		Gallons	MGD		Mok 2	<u>0</u>			
Lafayette WTP		6.8	25			0	MG		
Orinda WTP		62	190		RIVER FLOW	/S AND RE	ELEASES		Cfs
San Pablo WTP		0	30		Mokelumne R	iver Natura	l Flow		778
Sobrante WTP		15.5	50		Pardee Reserv	oir Inflow			527
Upper San Leandro WTP		14.9	45		Pardee Release	e to Camano	che Res.		92
Walnut Creek WTP		24.1	90		Pardee Release	e to JVID			0
				Camanche Release to Mokel. River				236	
TOTAL SURFACE PRODU	JCTION	123.3	430						
Miscellaneous(Estimated)		0.4		PG&E CO. STORAGE (Acre-feet)					
TOTAL WATER PRODUC		<u>123.7</u>						Maximum	
Change in Distribution Sys		-6				Storage	Change	<u>Capacity</u>	
Wash Water from Distribu	tion Sys.	0.8			servoirs	7374	-9	26560	
SYSTEM DEMAND		128.8			rings Res.	8098	183	141857	
East-of-Hills Demand		30			Bear Res.	<u>6398</u>	<u>324</u>	<u>52025</u>	
West-of-Hills Demand		98.8		Total		21870	498	220442	
RAW WATER TRANSMI		-ft			PRECIPITA	ATION (In	ches)		
	I <u>NPUT</u>	DRAFT			THIS Y	EAR		AVERAG	E YEAR
Briones Res.	102	0							
San Pablo Res.	29	47	STATION	1		This	Season	Season	Season
U. San Leandro Res.	133	48			Today	Month	to-Date	to-Date	Total
			USL WTF)	0	1.88	9.42	21.29	25.33
TOTAL	264	95	Orinda W	ТР	0	2.53	11.79	26.98	32.06
REMARKS			Lafayette Reservoir		0	1.58	7.19	23.88	28.18
WID Canal Diversion = 47 cfs Walnut C		eek WTP	0	1.94	8.32	19.79	23.02		
Mokelumne River below WID = 111 cfs		Camp Pardee		0	2.13	11.86	17.34	21.56	
S		Salt Sprin	gs P.H.	0	3.58	21.48	36.24	45.51	
				-	PLES LAKE (7,8	30 FT) DA	TA		
PG&E data as of 4:00 pm previous date.		1		Today		Average			
All other data as of midnight.		Snow Dep	oth	66 Inches		71 Inches			
WTP capacities are sustainable rates.		Water Con		23.1 Inches		7.7 Inches			
				23.1 menes	2	., menes			

EAST BAY MUNICIPAL UTILITY DISTRICT



Coronavirus Update

Board of Directors March 23, 2021

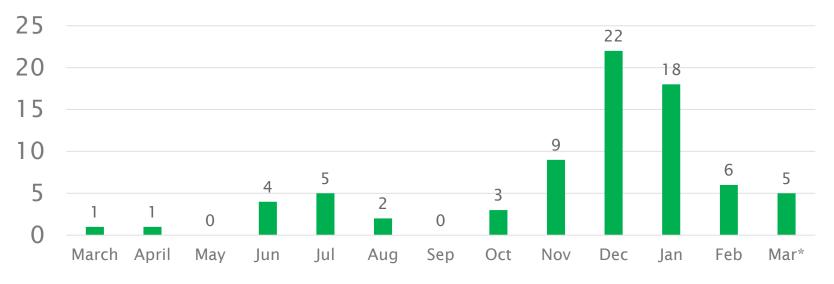


State Regulations and Guidance

- District counties in Red Tier, Alameda County may reach Orange Tier next week.
- Most pandemic-related health metrics continue to improve, albeit at slower rates.
- No significant impact expected on District operations.

Employee Impacts from COVID-19

- 76 employee and 12 contractor positives to date
 - All employees have returned to work except for two most recent cases.
 - 8 employees quarantining





- Utility and disaster service workers added to Phase 1B on March 11
- Employees notified of eligibility on March 12
- 14 million doses administered to date
 - ~2 million/week, increasing
 - Vaccination rates limited by supply
- District will promote and support employee vaccination



- Does not change existing safety protocols
 - However, vaccinations will affect <u>future</u> safety protocols
- Allows building occupancy to incrementally increase, including public access
- Transitions telecommuting to long-term plan
 - Employees able to telecommute through June 18
- Includes plan for Board of Directors

Face Covering Compliance at Recreation Sites



Lafayette, San Pablo, Camanche, and Pardee recreation areas audited by staff on the weekend of March 13 and 14.

Per California Department of Public Health, face coverings not required for individuals outdoors and at least 6 feet from other people who aren't in their household, or who are dining.

East Bay Regional Park District recently increased patrols/vigilance at Lafayette Reservoir .

Lafayette Recreation Area:89%San Pablo Recreation Area:95%Pardee Recreation Area:95%Camanche North Shore:90%Camanche South Shore:85%Camanche Hills Hunting Preserve:75%Mokelumne River Day Use Area:95%



