

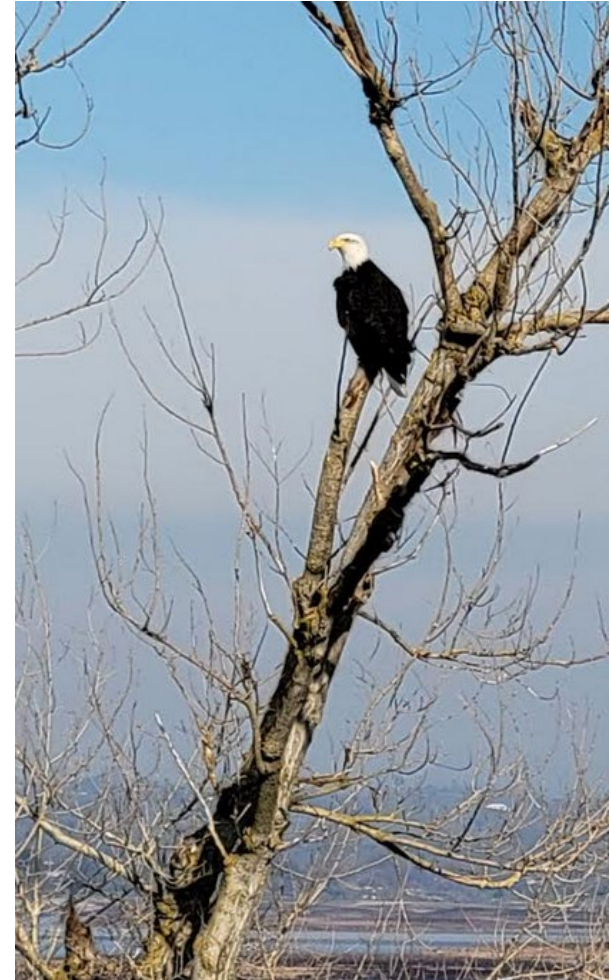
Water Supply Update

Board of Directors

March 22, 2022

Water Supply Briefing

- Supplemental Water Supply
- Current Water Supply
- California Water Supply
- Water Supply Projections



Bald Eagle on Dike 1 of Camanche Reservoir. Photo: Jessica Woods

Supplemental Water Supply

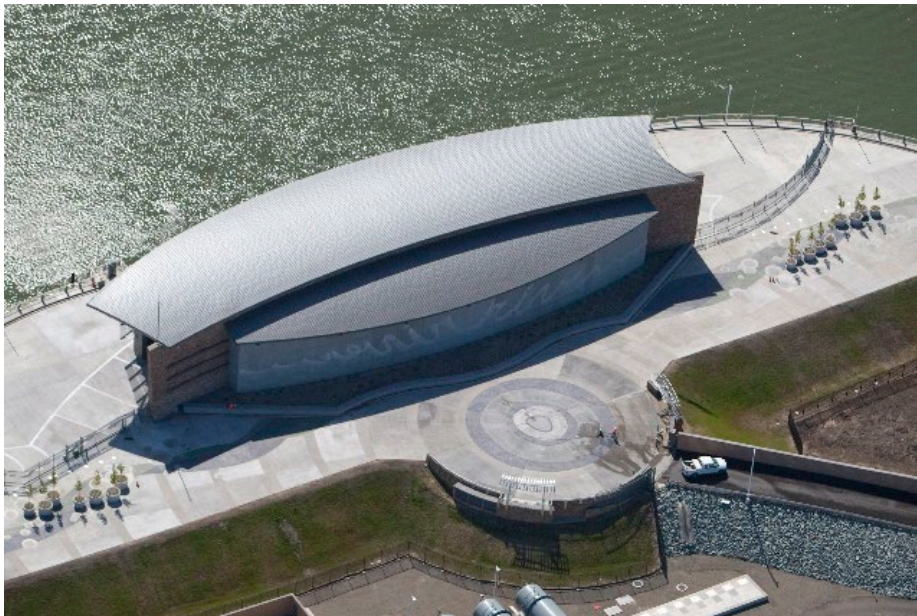
Freeport Diversion Update



Diversion Totals (AF)

October 4 – December 28	20,990
February 8 – February 28	5,060
March 3 – March 16*	3,630
Contract Year 2021 Total	29,680

*On-going



Freeport Intake Facility

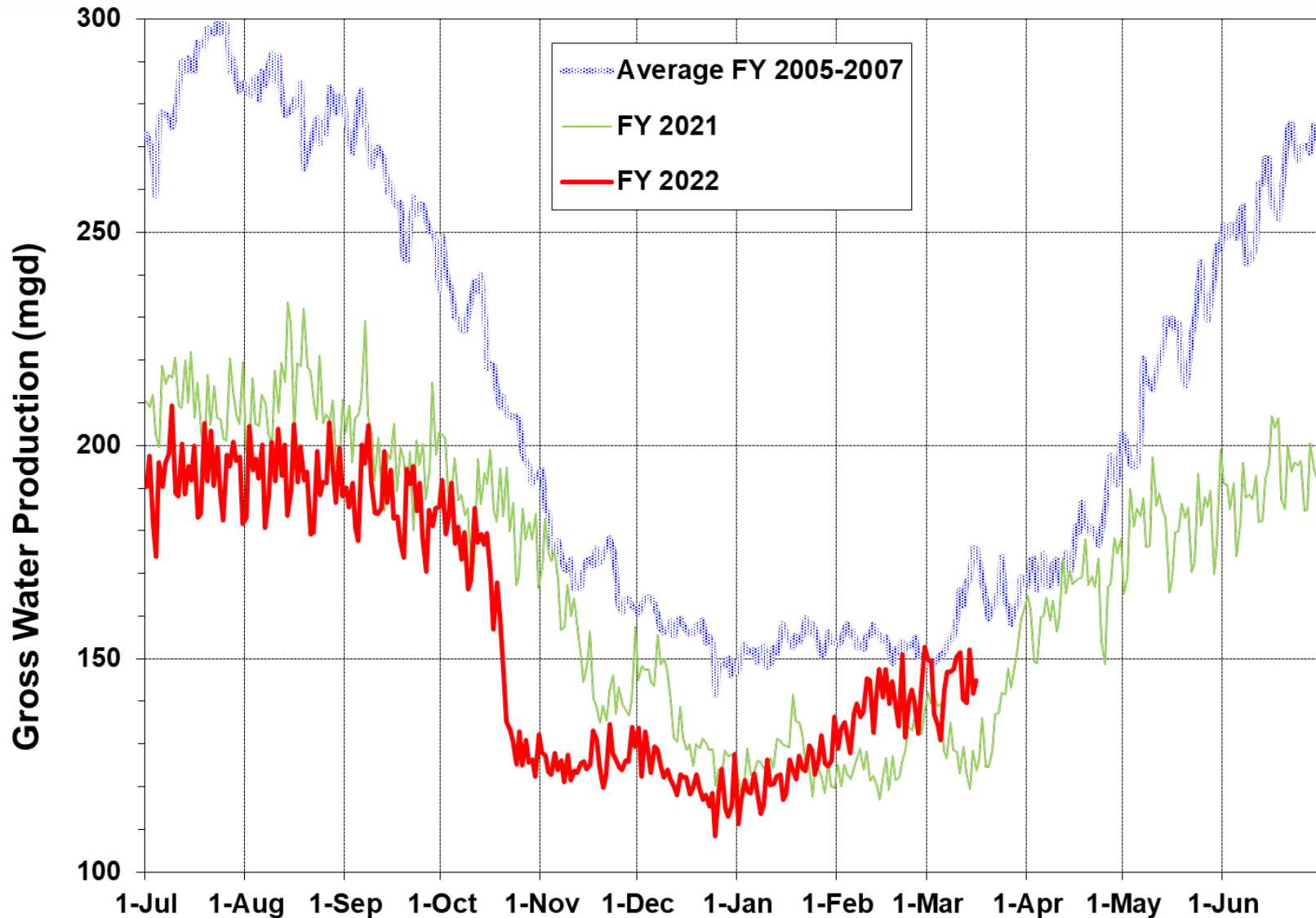
CVP Contract Year 2021

- 33,250 AF allocated by US Bureau of Reclamation
- 2,000 AF CVP transfer water purchased from CCWD

CVP Contract Year 2022
allocation pending

Current Water Supply

Gross Water Production

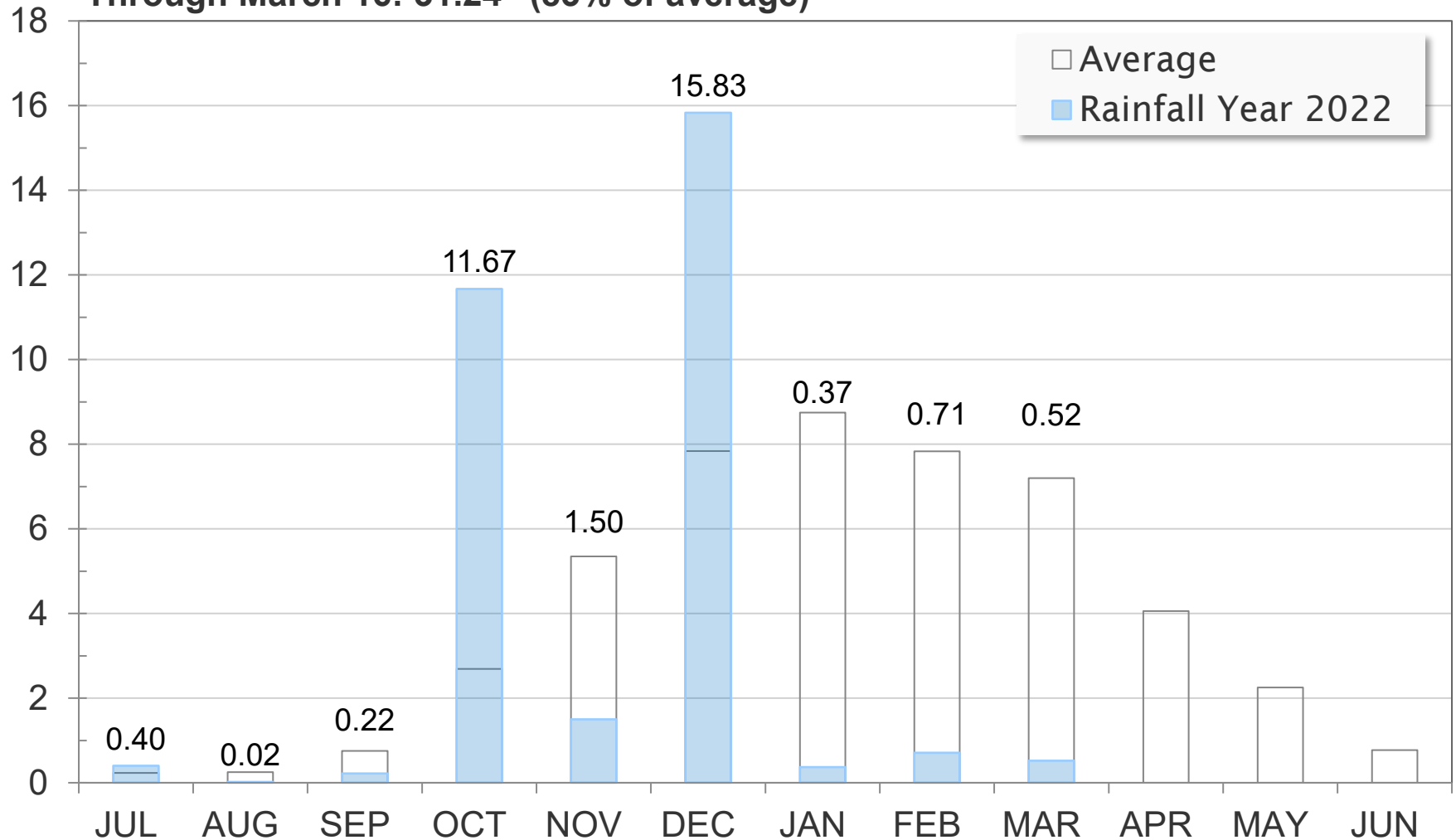


Current Water Supply

Mokelumne Precipitation

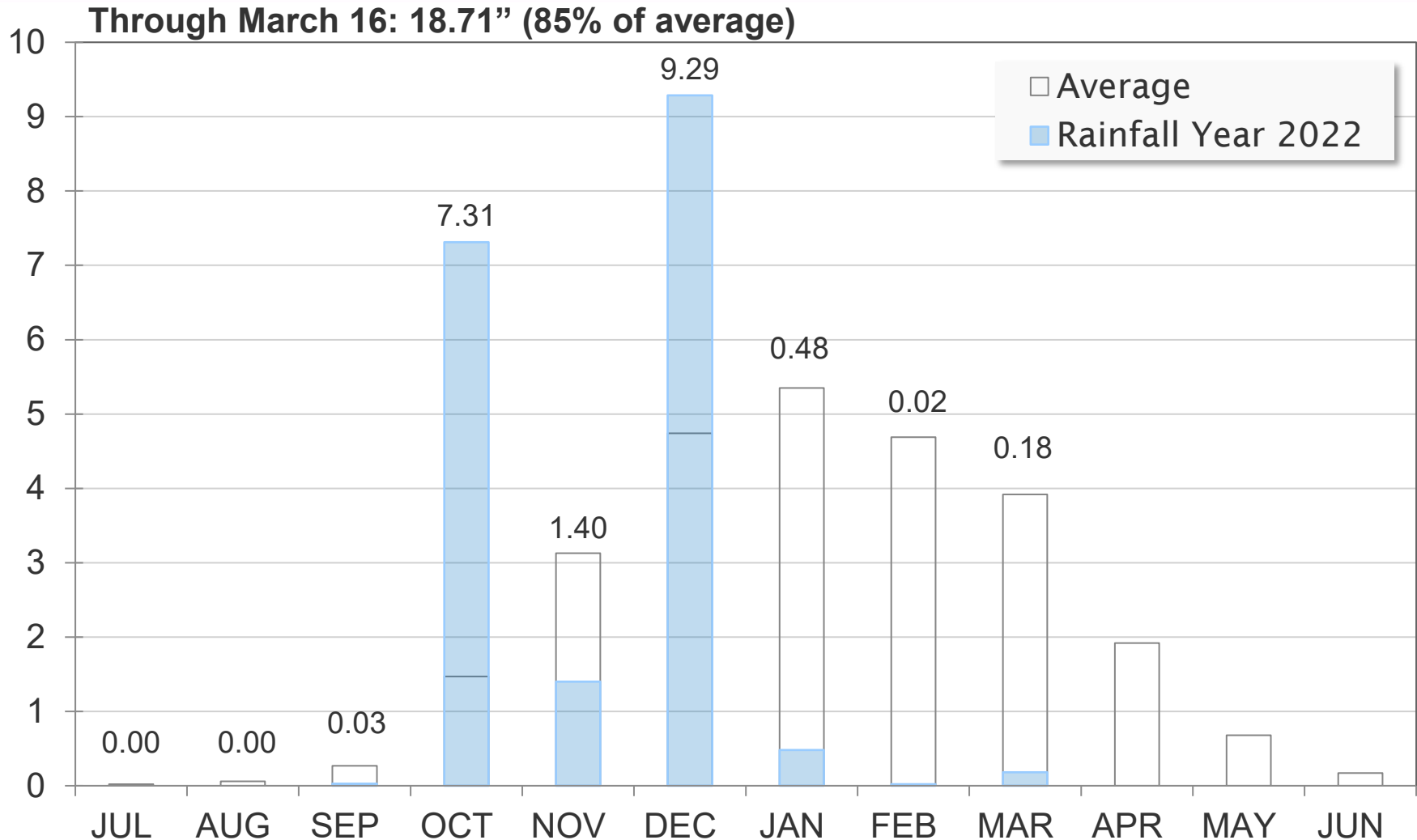


Through March 16: 31.24" (83% of average)



Current Water Supply

East Bay Precipitation

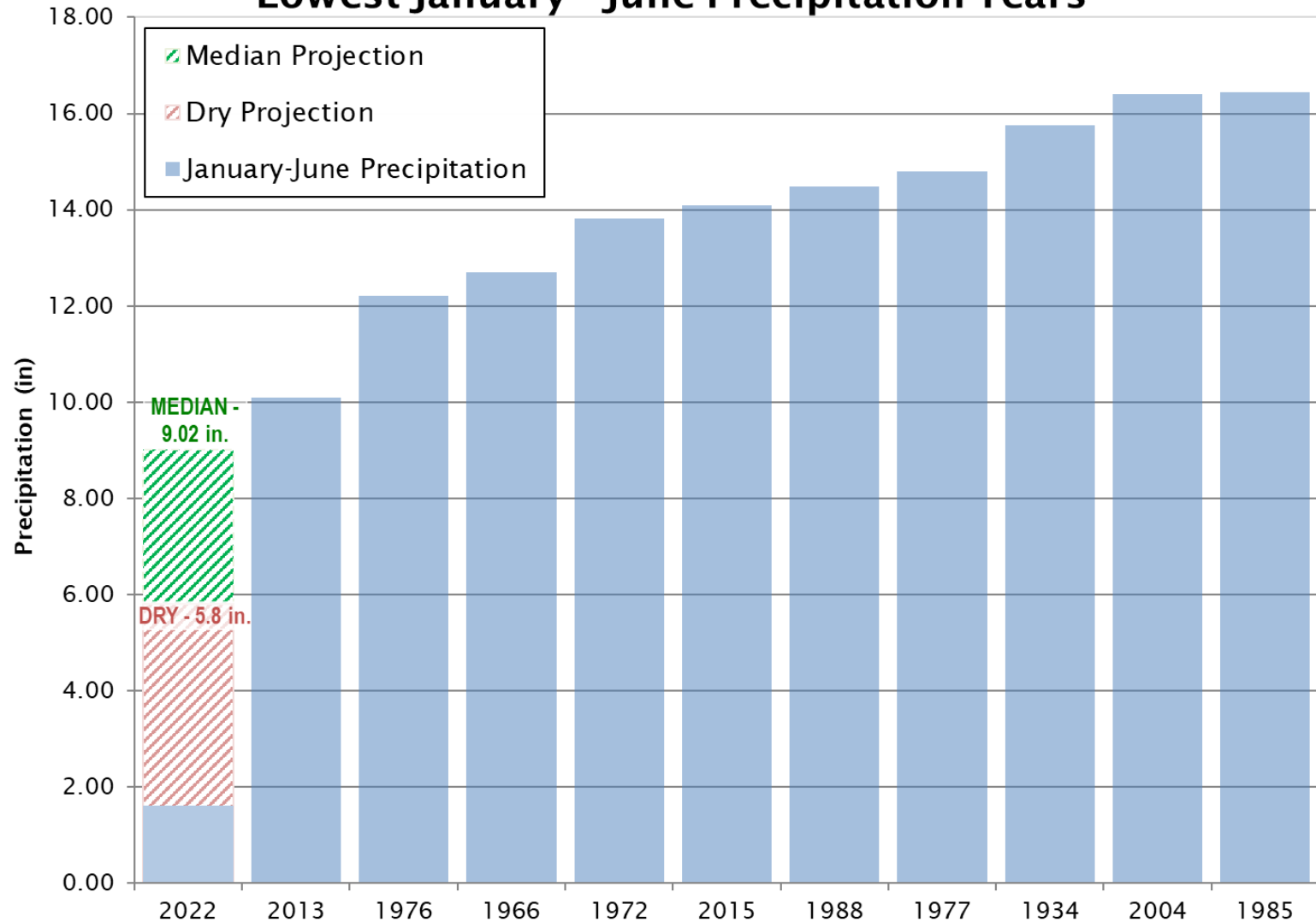


Water Supply Projections

Dry Year January – June Precipitation Comparison

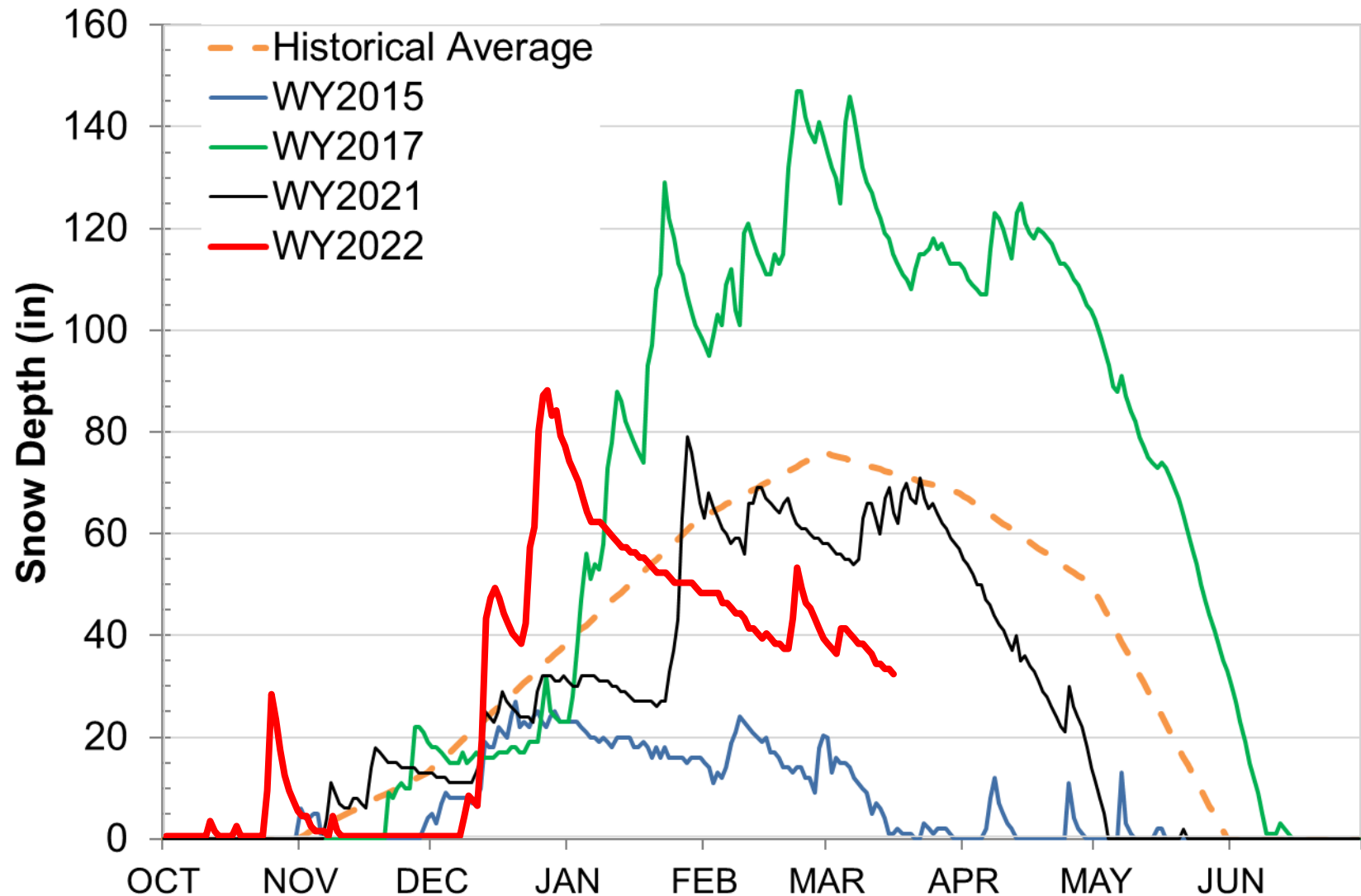


Lowest January - June Precipitation Years



Current Water Supply

Caples Lake Snow Depth



Current Water Supply

Reservoir Storage



Pardee Recreation Area and Jackson Creek Spillway



Camanche Reservoir

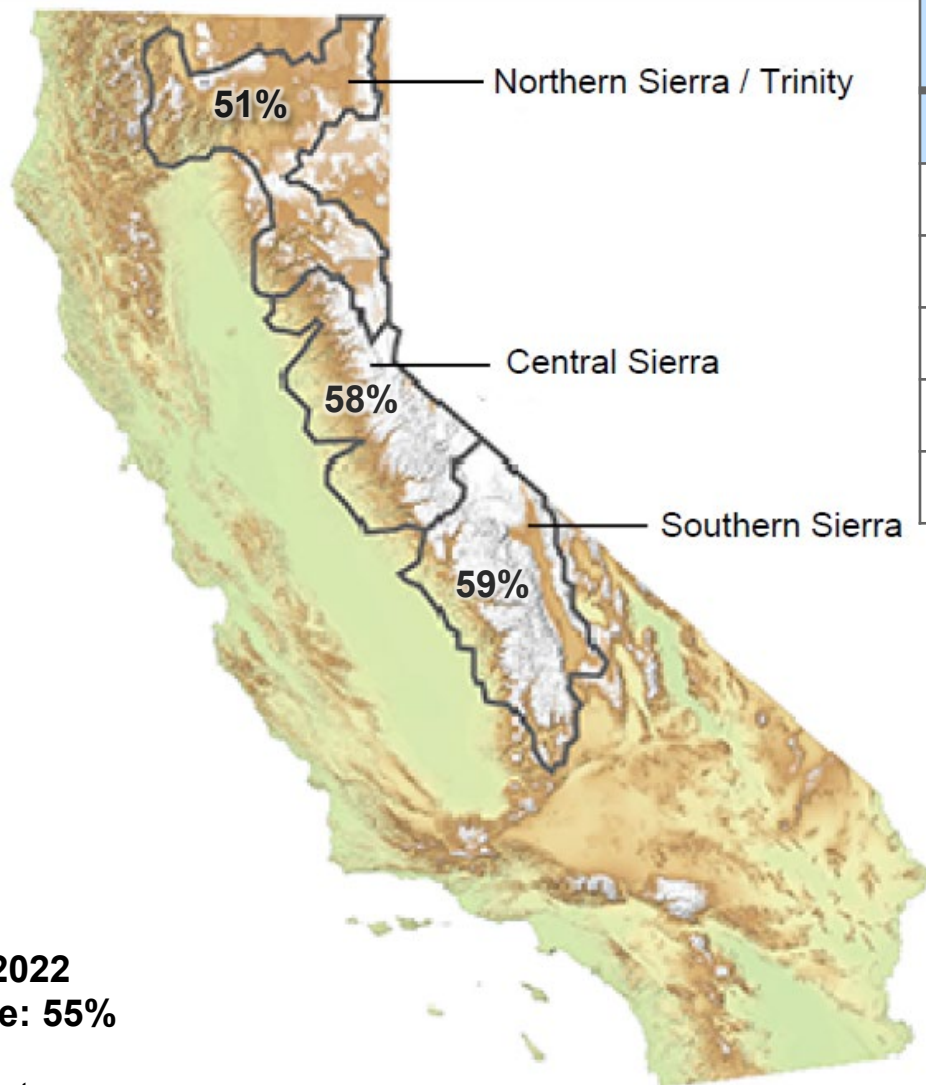


Briones Reservoir

As of March 16, 2022	Current Storage	Percent of Average	Percent of Capacity
Pardee	162,900 AF	88%	80%
Camanche	240,520 AF	84%	58%
East Bay	131,970 AF	97%	88%
Total System	535,390 AF	88%	69%

California Water Supply

Change in Snow Water Equivalents



Snow Water Content Percent of Normal for this Date				
Date	North	Central	South	State
12/1/21	12	17	35	18
1/1/22	141	155	168	154
2/1/22	89	95	96	93
3/1/22	59	66	65	64
3/17/22	51	58	59	55



Data for: 17-Mar-2022
Statewide Average: 55%

% of Normal for this Date

Water Supply Projections

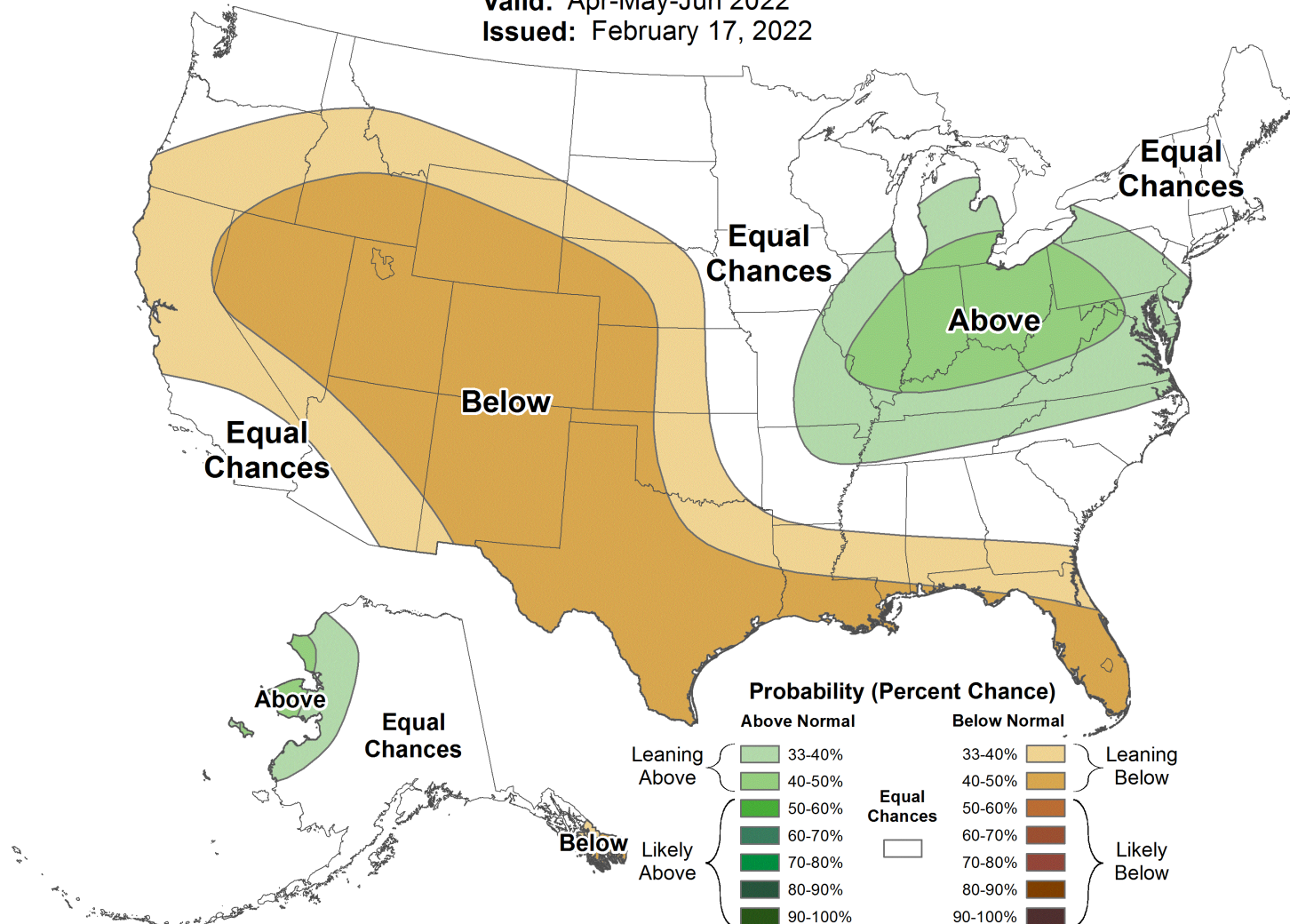
Precipitation Outlook for April to June '22



Seasonal Precipitation Outlook

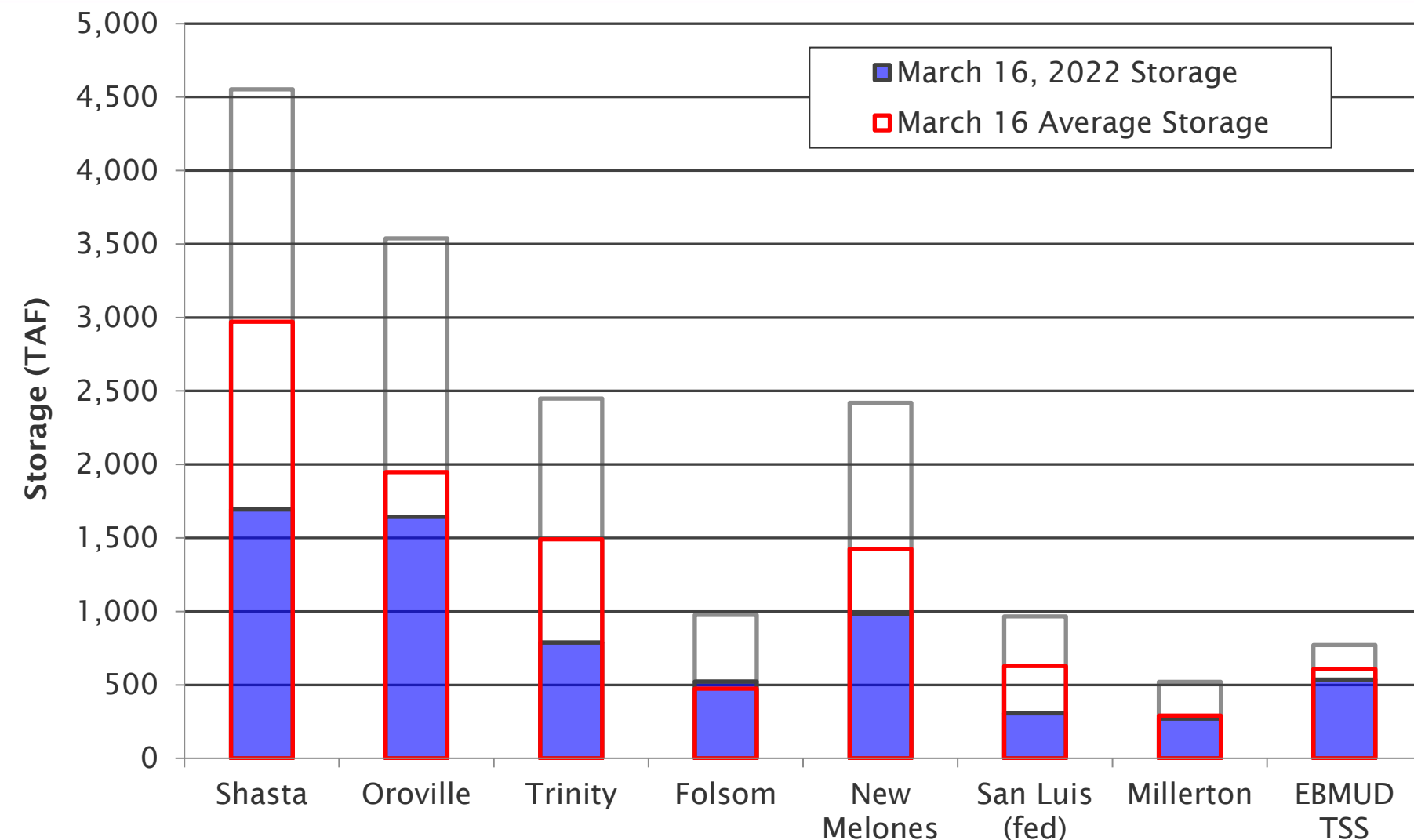


Valid: Apr-May-Jun 2022
Issued: February 17, 2022



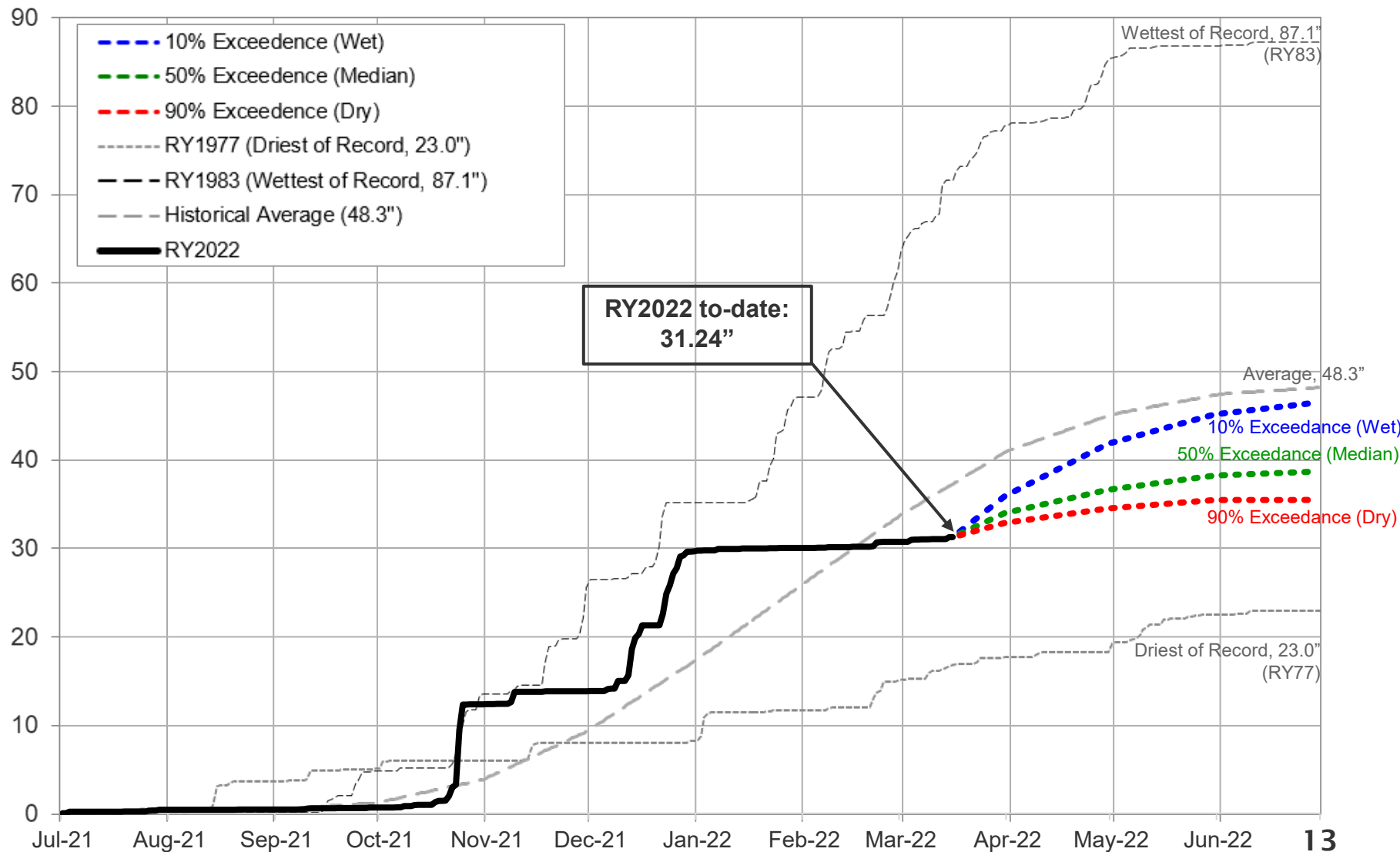
Northern California Water Supply

Current vs. Average Storage



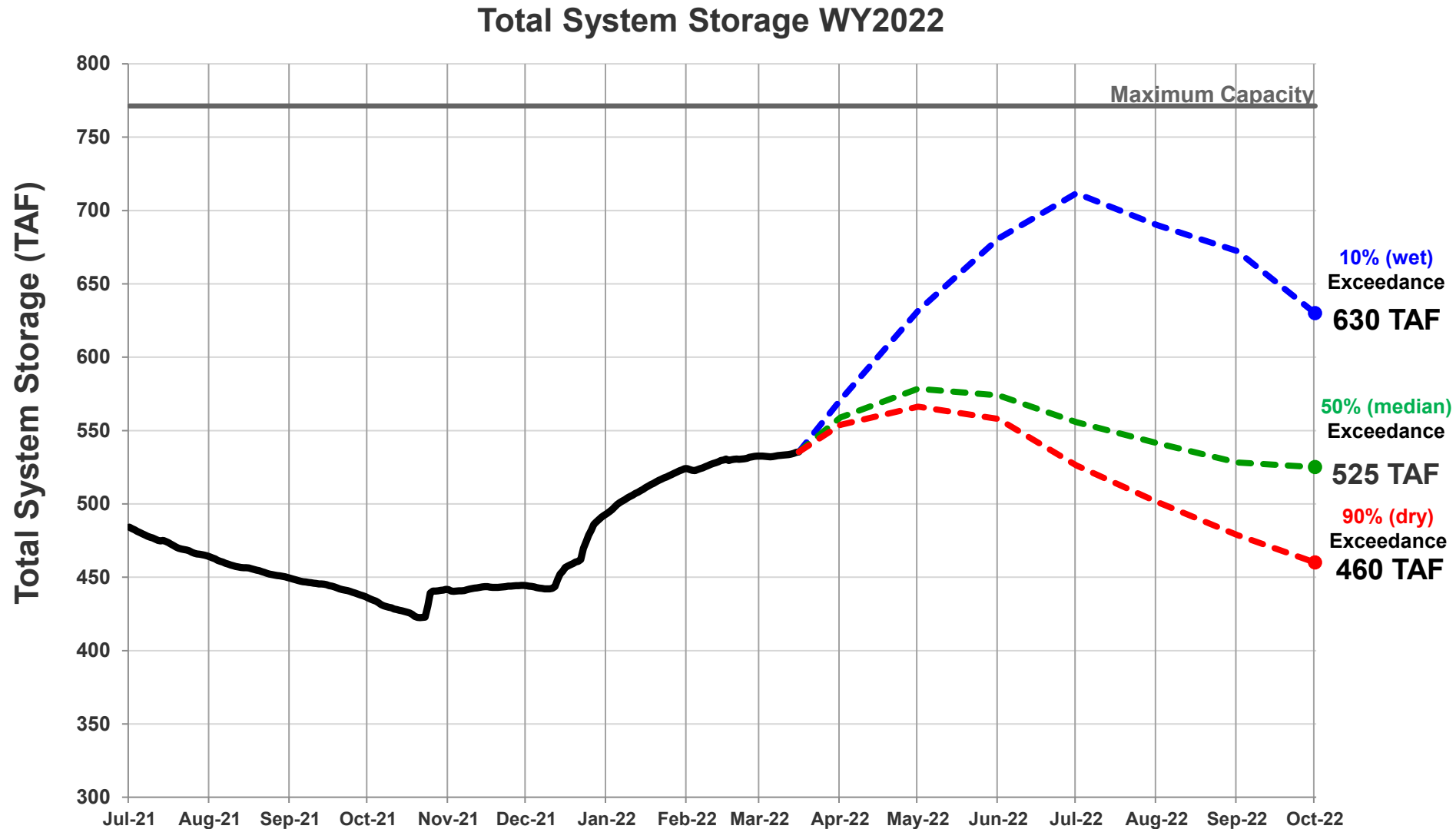
Water Supply Projections

Mokelumne Precipitation Rainfall Year 2022



Water Supply Projections

Projected 2022 EBMUD Total System Storage



Questions ?



Forest Creek Streamflow Gauging Station, Photo: Jessica Woods

WATER SUPPLY ENGINEERING DAILY REPORT

Wednesday, March 16, 2022

RESERVOIR STORAGE AND ELEVATION

	<u>WATER SURFACE</u>		<u>STORAGE</u>		<u>MAXIMUM CAPACITY</u>			
	<u>Elevation</u>							
	n	+Gain		+Gain	Elevation	Storage	Release	Spill
	<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>
<u>MOKELUMNE</u>								
Pardee	547.9	0.36	162900	680	567.65	203795	11	0
Camanche	208.83	-0.07	240520	-400	235.5	417120	234	0
<u>EAST BAY</u>								
Briones	562.53	-0.07	49740	-50	576.14	58960	0	0
Chabot	222.12	-0.01	8680	0	227.25	10350	0	0
Lafayette	436.3	-0.01	2760	0	449.16	4250	0	0
San Pablo	311.62	0.06	36220	50	313.68	37915	0	0
Upper San Leandro	454.13	0.09	<u>34570</u>	<u>60</u>	459.98	<u>38905</u>	0	0
<u>Total East Bay Res.</u>			<u>131970</u>	<u>60</u>		<u>150380</u>		
TOTAL SYSTEM STORAGE			535390	340		771295		

DISTRIBUTION SYSTEM			MOKELUMNE SYSTEM		
<u>DISTRIBUTION RESERVOIRS</u>			<u>AQUEDUCT DELIVERIES</u>		
	<u>Storage</u>	<u>Operating</u>		<u>MG</u>	<u>Flow Conditions</u>
	<u>MG</u>	<u>Capacity</u>			
Today	375	720	Line 1	36.4	GRAVITY
Total Previous Day	<u>368</u>		Line 2	46.8	THROTTLE
Total Change	7		Line 3	<u>6.5</u>	<u>SHUTDOWN</u>
			TOTAL	89.7	139 Cfs
			<u>FSCC to MOK AQUEDUCTS (Measured at Brandt), MG</u>		
			Mok 1	0	
			Mok 2	<u>0</u>	
				73.3 MG	
<u>WATER PRODUCTION</u>	<u>Million</u>	<u>Capacity</u>	<u>RIVER FLOWS AND RELEASES</u>		
<u>AND DEMAND</u>	<u>Gallons</u>	<u>MGD</u>			<u>Cfs</u>
Lafayette WTP	10.5	25	Mokelumne River Natural Flow		725
Orinda WTP	55	190	Pardee Reservoir Inflow		499
San Pablo WTP	0	30	Pardee Release to Camanche Res.		11
Sobrante WTP	18.6	50	Pardee Release to JVID		0
Upper San Leandro WTP	37.5	45	Camanche Release to Mokel. River		234
Walnut Creek WTP	32.4	90			
<u>TOTAL SURFACE PRODUCTION</u>	154	430			
Miscellaneous(Estimated)	0.4		<u>PG&E CO. STORAGE (Acre-feet)</u>		
<u>TOTAL WATER PRODUCTION</u>	<u>154.4</u>				
Change in Distribution System	7			<u>Storage</u>	<u>Change</u>
Wash Water from Distribution Sys.	2		Old Reservoirs	14003	26
			Salt Springs Res.	40972	97
<u>SYSTEM DEMAND</u>	145		Lower Bear Res.	<u>21129</u>	<u>326</u>
East-of-Hills Demand	37		Total	76104	449
West-of-Hills Demand	108				220442

RAW WATER TRANSMISSION			PRECIPITATION (Inches)				
	<u>INPUT</u>	<u>DRAFT</u>	<u>THIS YEAR</u>		<u>AVERAGE YEAR</u>		
			<u>STATION</u>	<u>Today</u>	<u>This Month</u>	<u>Season to-Date</u>	<u>Season to-Date</u>
Briones Res.	0	48					<u>Season Total</u>
San Pablo Res.	96	59	USL WTP	0	0.28	20.81	20.69
U. San Leandro Res.	152	121	Orinda WTP	0	0.03	26.92	26.18
			Lafayette Reservoir	0	0.08	16.6	23.21
TOTAL	248	228	Walnut Creek WTP	0	0.08	17.55	19.23
<u>REMARKS</u>			Camp Pardee	0	0.55	15.52	16.78
WID Canal Diversion = 41 cfs			Salt Springs P.H.	0	0.64	27.99	35.15
Mokelumne River below WID = 63 cfs							45.51
			<u>CAPLES LAKE (7,830 FT) DATA</u>				
				<u>Today</u>	<u>Average</u>		
PG&E data as of 4:00 pm previous date.			Snow Depth	32 Inches	72 Inches		
All other data as of midnight.			Water Content	17.1 Inches	27.5 Inches		
WTP capacities are sustainable rates.							

EAST BAY MUNICIPAL UTILITY DISTRICT