

Water Supply Update

Board of Directors

March 28, 2023

Water Supply Briefing

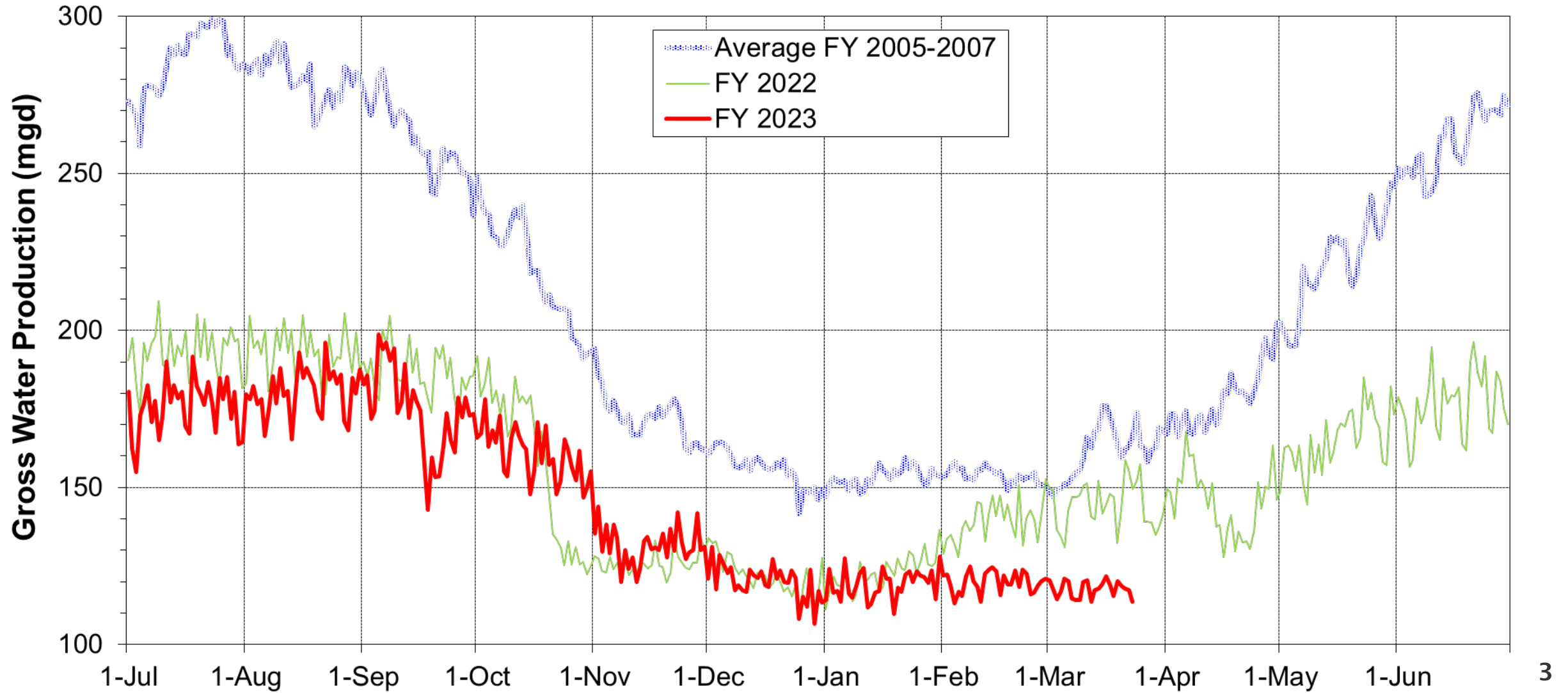


- Current Water Supply
- California Water Supply
- Water Supply Projections



Current Water Supply

Gross Water Production

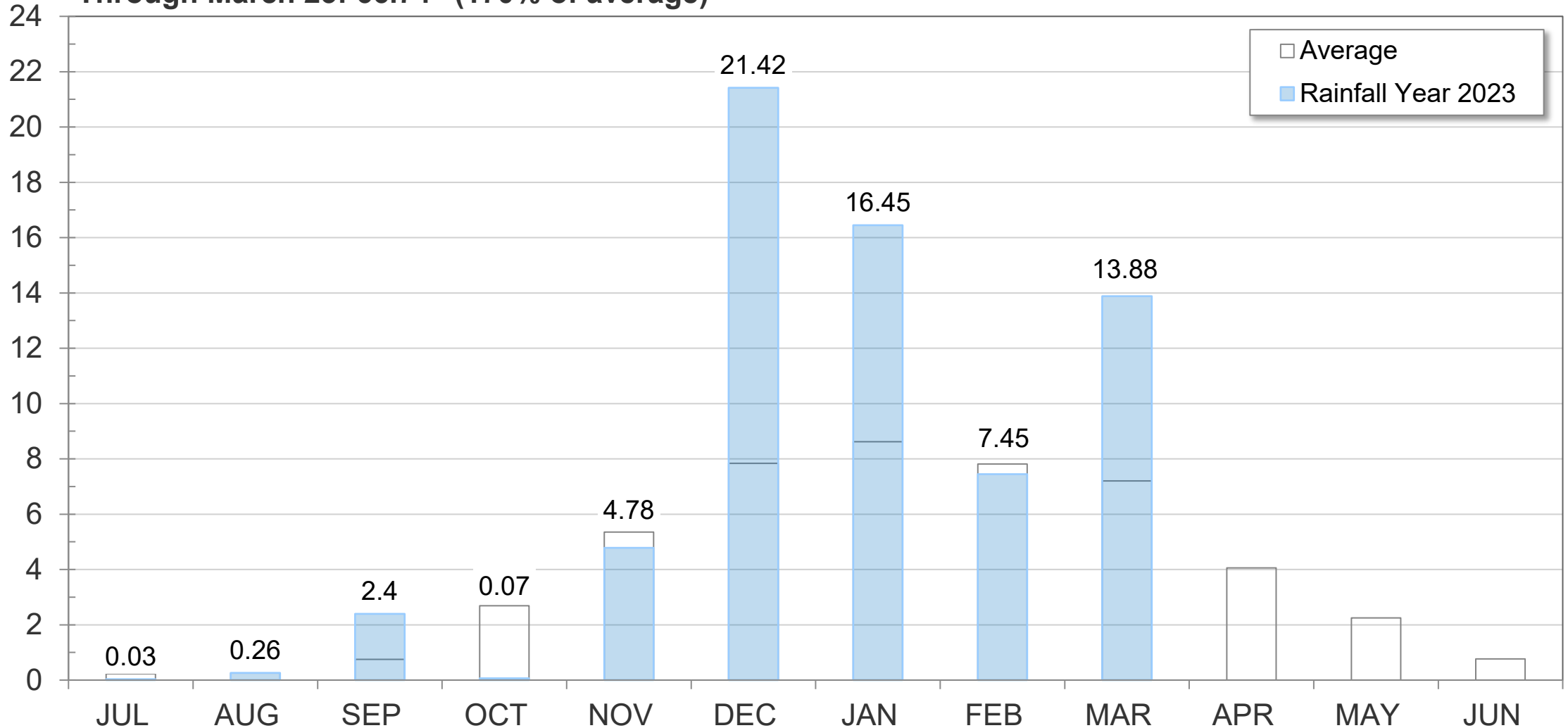


Current Water Supply

Mokelumne Precipitation

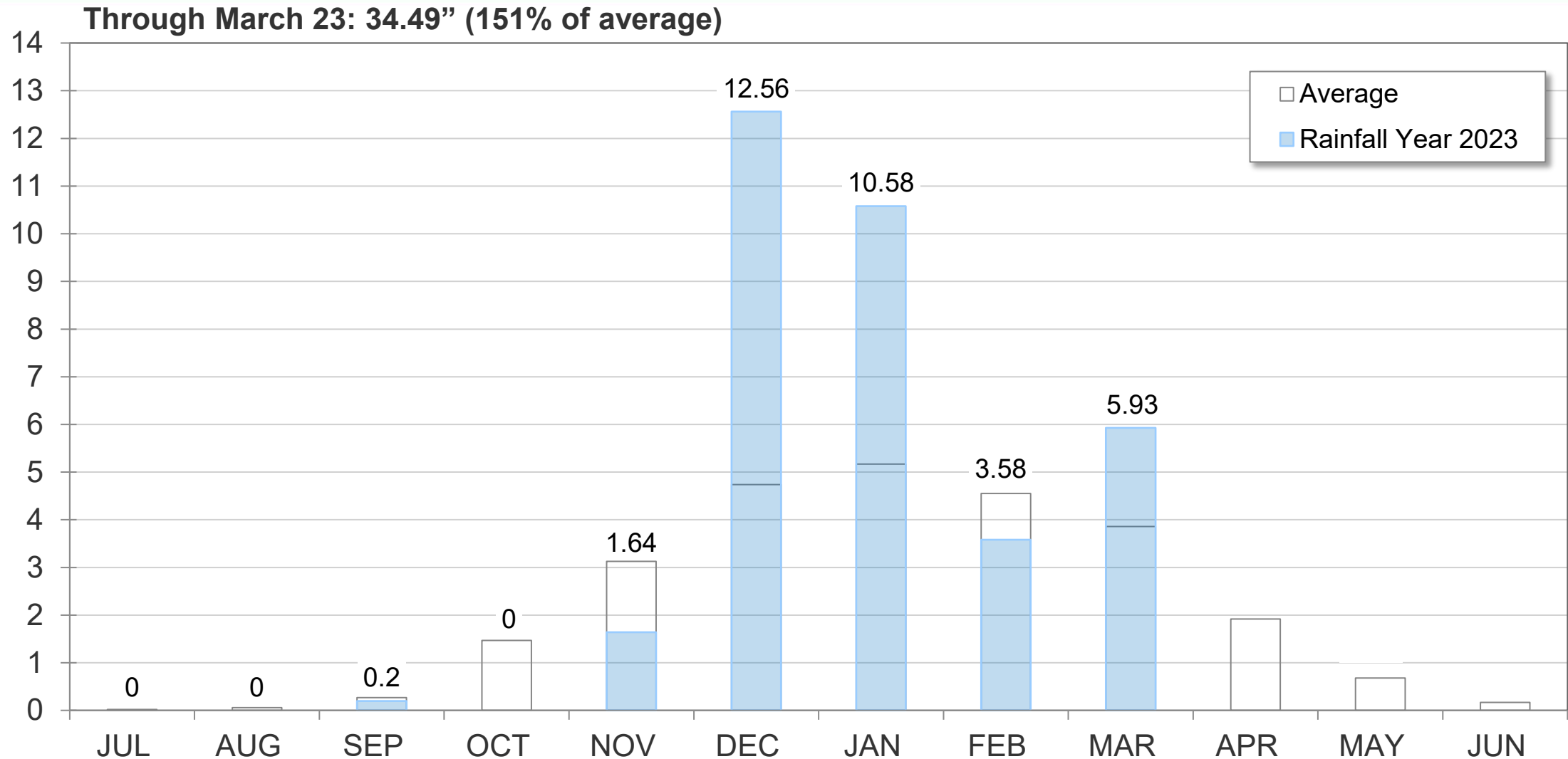


Through March 23: 66.74" (170% of average)



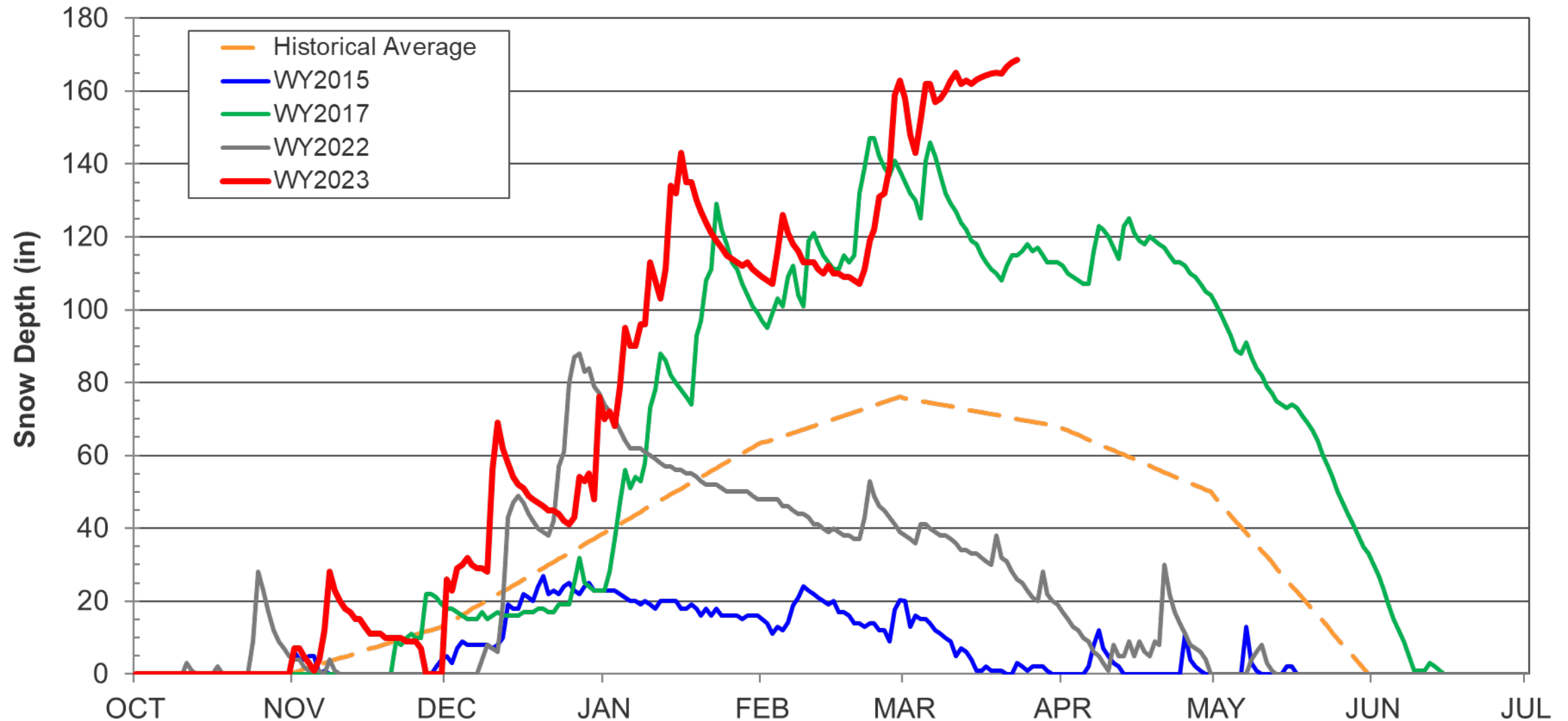
Current Water Supply

East Bay Precipitation



Current Water Supply

Caples Lake Snow Depth



Current Water Supply

Snow

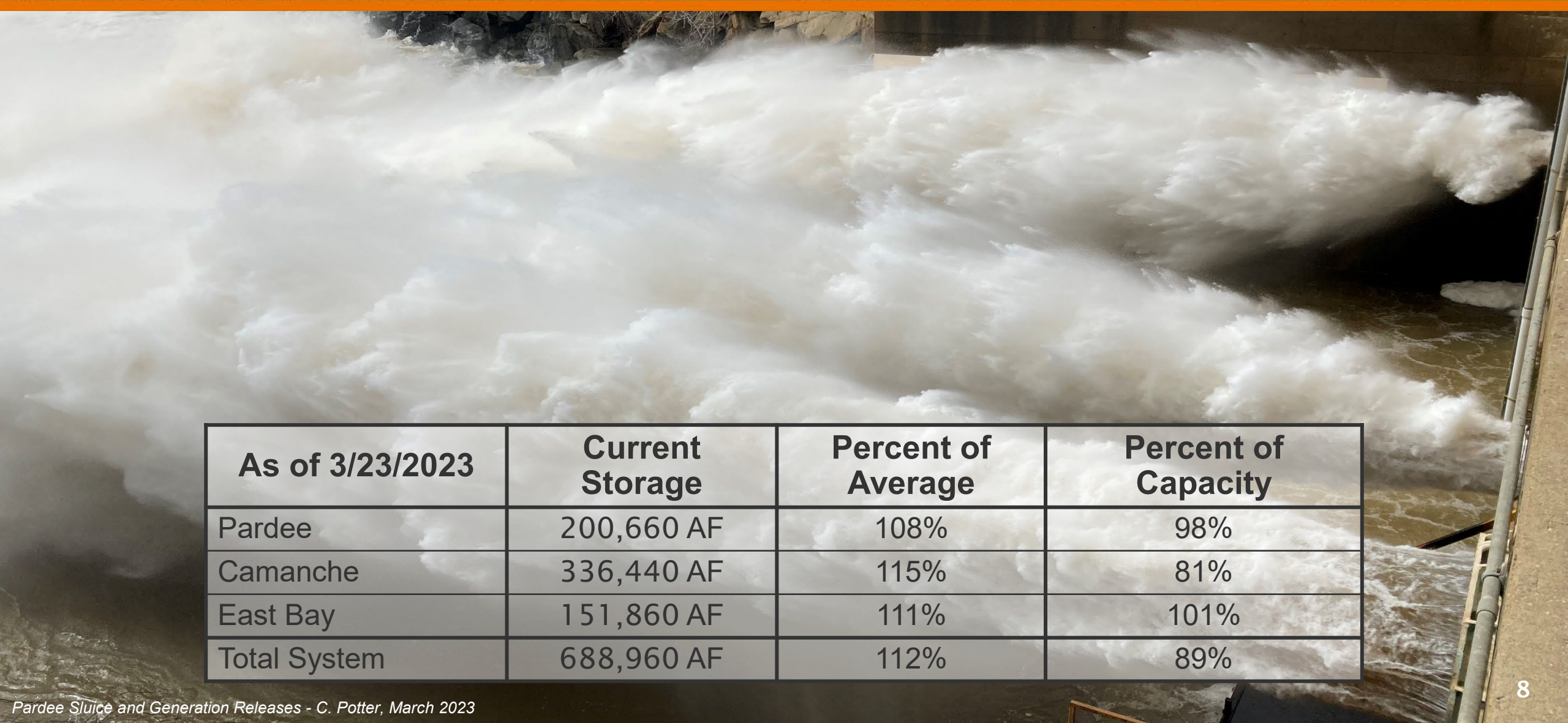


Caples Lake - C. Sarkis, March 2023

As of 3/23/2023	Cumulative Precipitation	Percent of Average
Caples Lake Snow Depth	169"	241%
Caples Lake Snow Water Content	62.35"	225%

Current Water Supply

Reservoir Storage

A large-scale photograph of a dam with massive, white, turbulent water cascading over its spillways. The water is highly aerated, creating a thick mist. The dam structure is visible on the right side of the frame.

As of 3/23/2023	Current Storage	Percent of Average	Percent of Capacity
Pardee	200,660 AF	108%	98%
Camanche	336,440 AF	115%	81%
East Bay	151,860 AF	111%	101%
Total System	688,960 AF	112%	89%

California Water Supply

Change in Snow Water Equivalents



Snow Water Content Percent of Normal for this Date				
Date	North	Central	South	State
1/1/23	139	187	209	179
2/1/23	171	203	249	205
3/1/23	153	198	232	194
3/23/23	183	229	283	227



Data for: 23-Mar-2023
Statewide Average: 227%

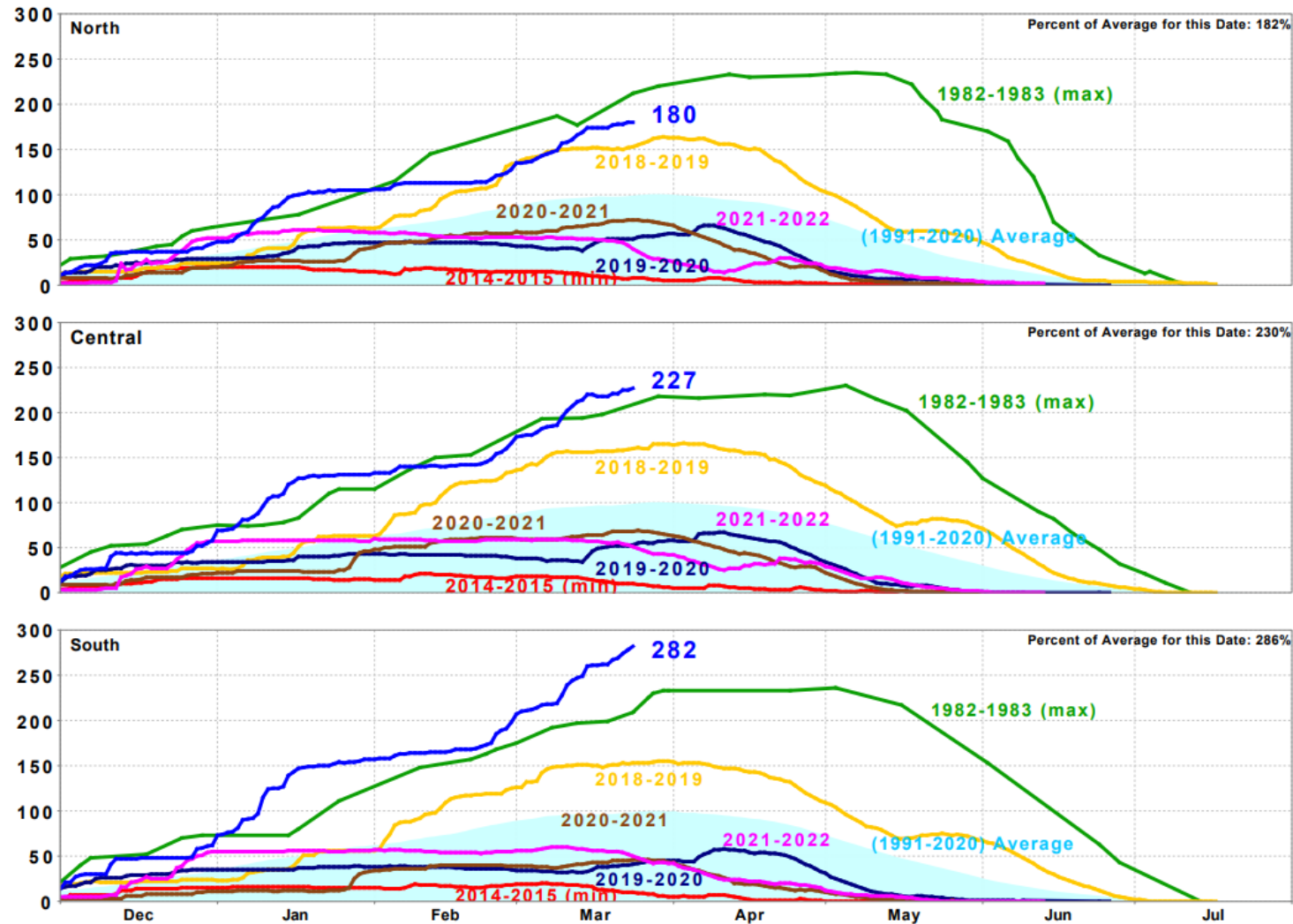
% of Normal for this Date

California Water Supply

Comparison of Snow Water Equivalents



California Snow Water Content, March 24, 2023, Percent of April 1 Average

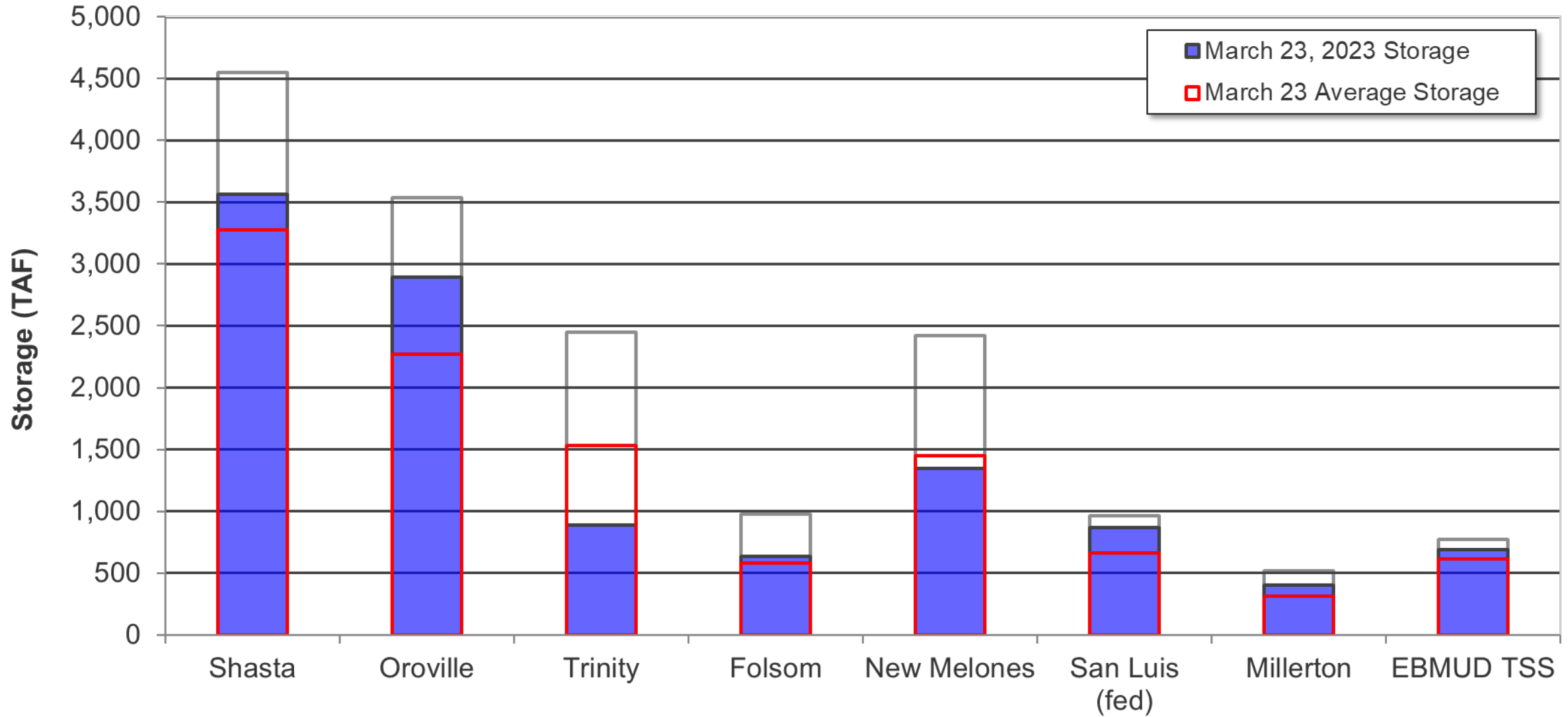


Statewide Percent of April 1: 225%

Statewide Percent of Average for Date: 228%

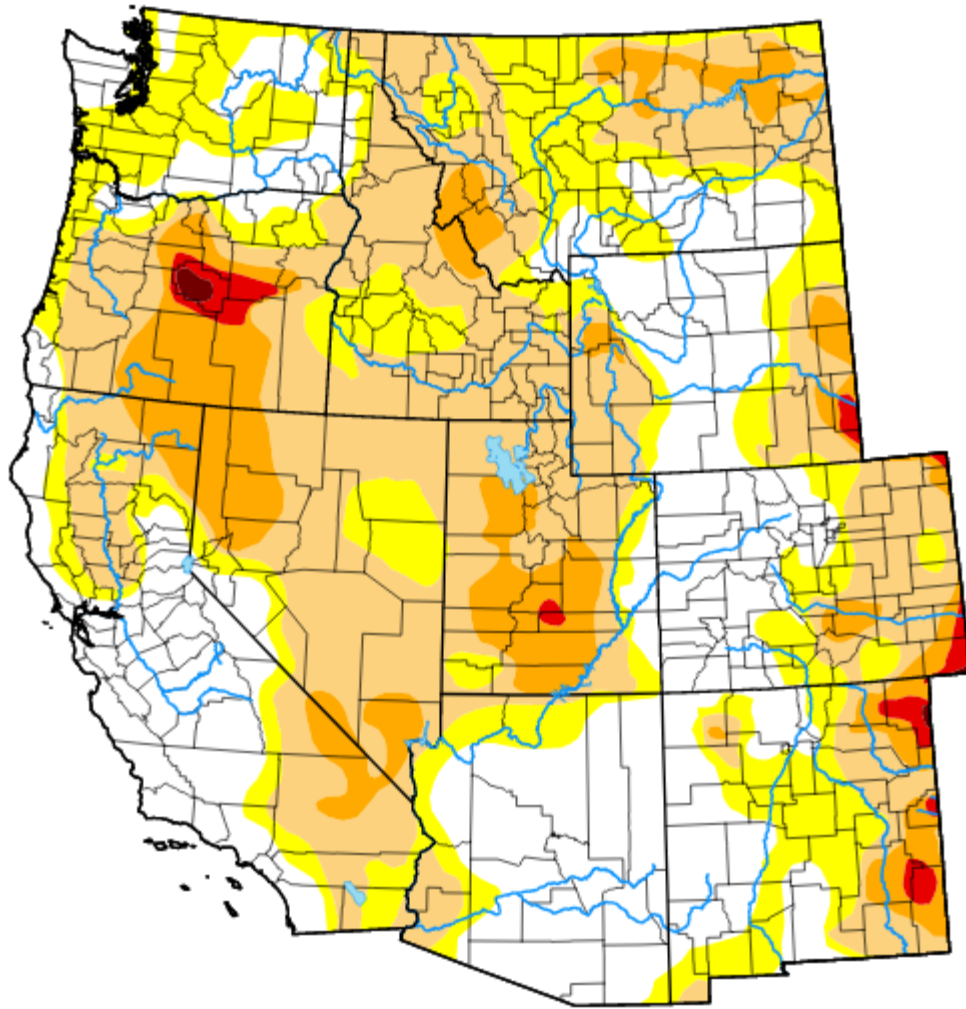
Northern California Water Supply

Current vs. Average Storage



Water Supply Projections

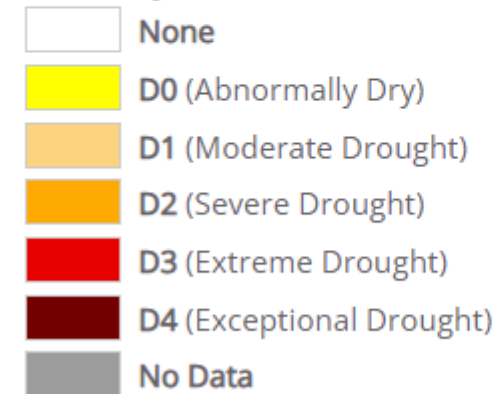
U.S. Drought Status



Map released: Thurs. March 23, 2023

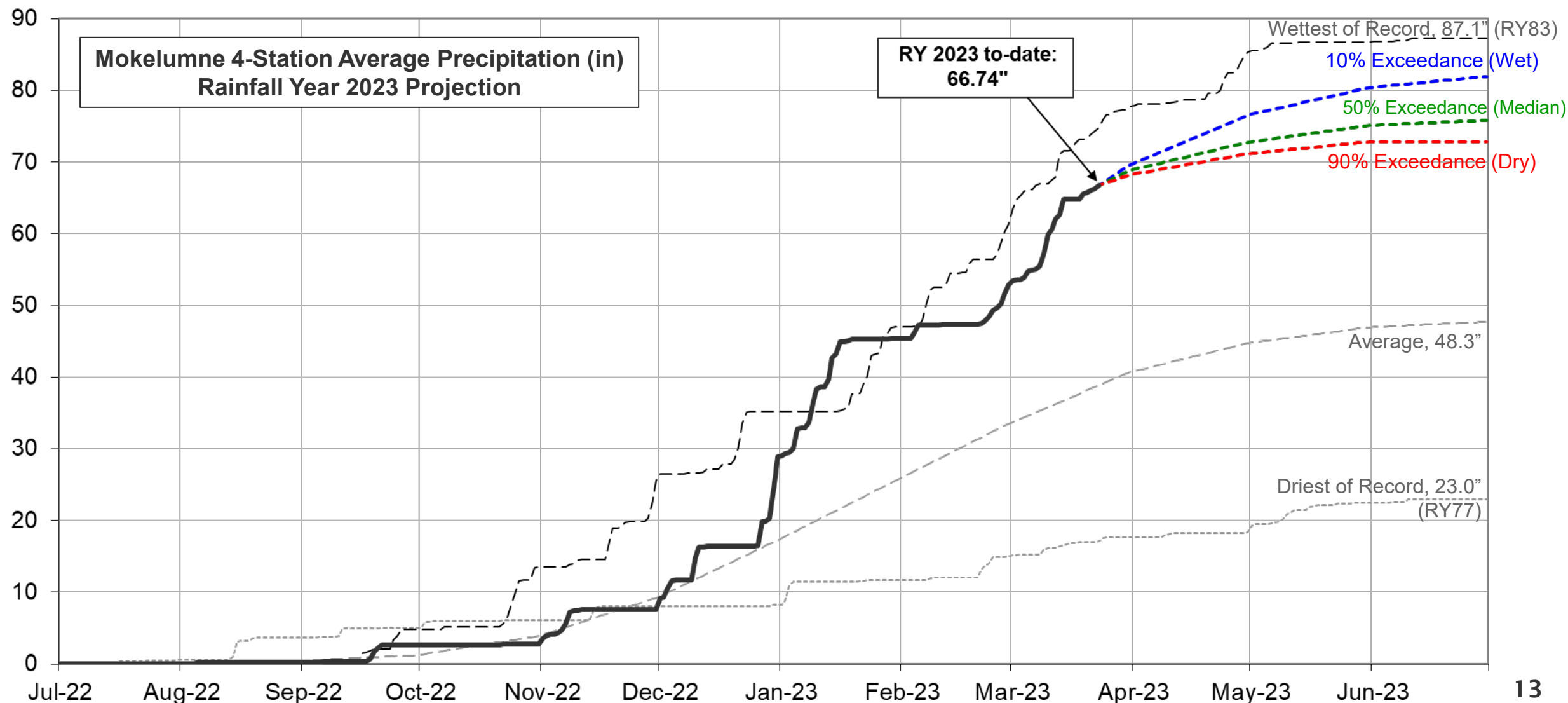
Data valid: March 21, 2023 at 8 a.m. EDT

Intensity



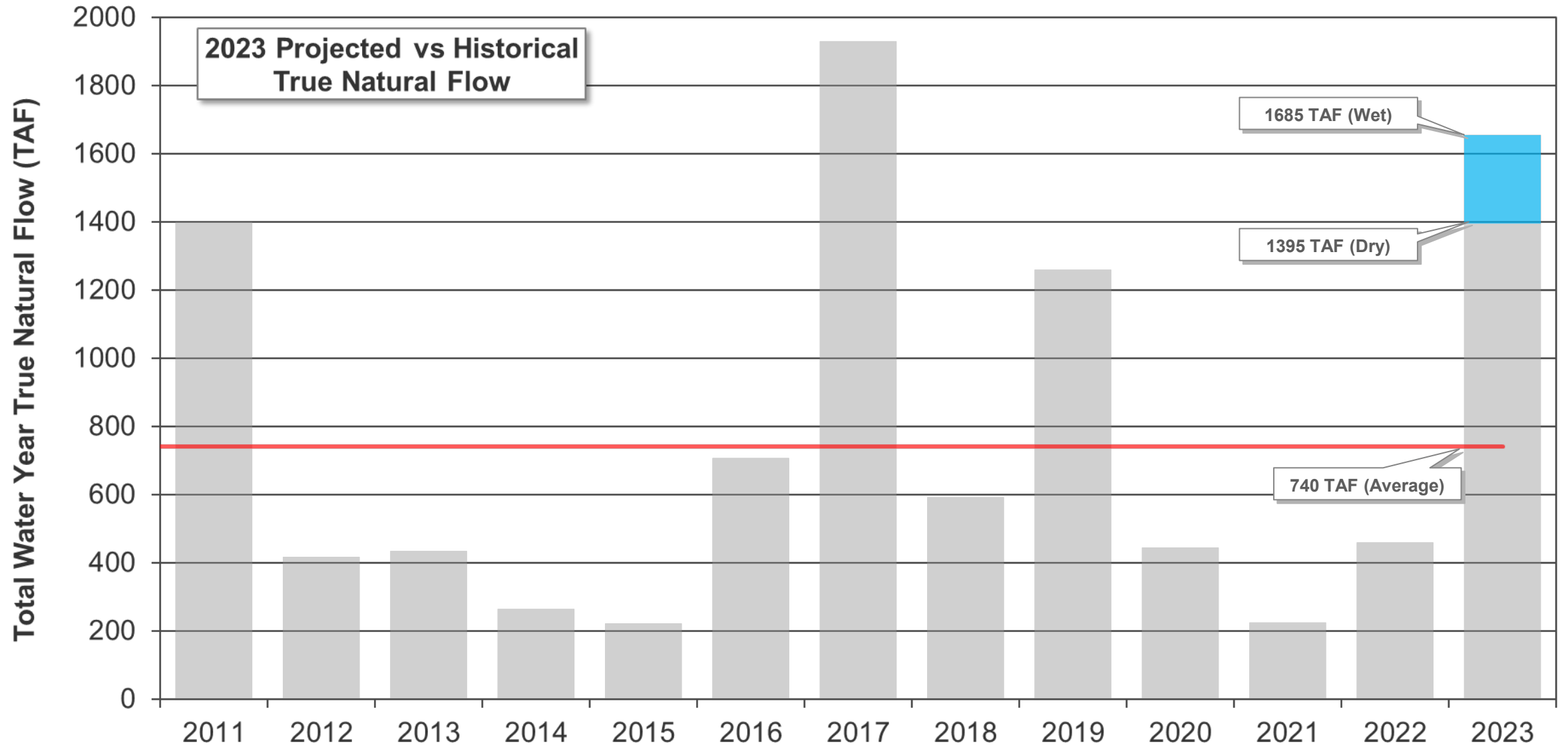
Water Supply Projections

Mokelumne Precipitation Rainfall Year (RY) 2023



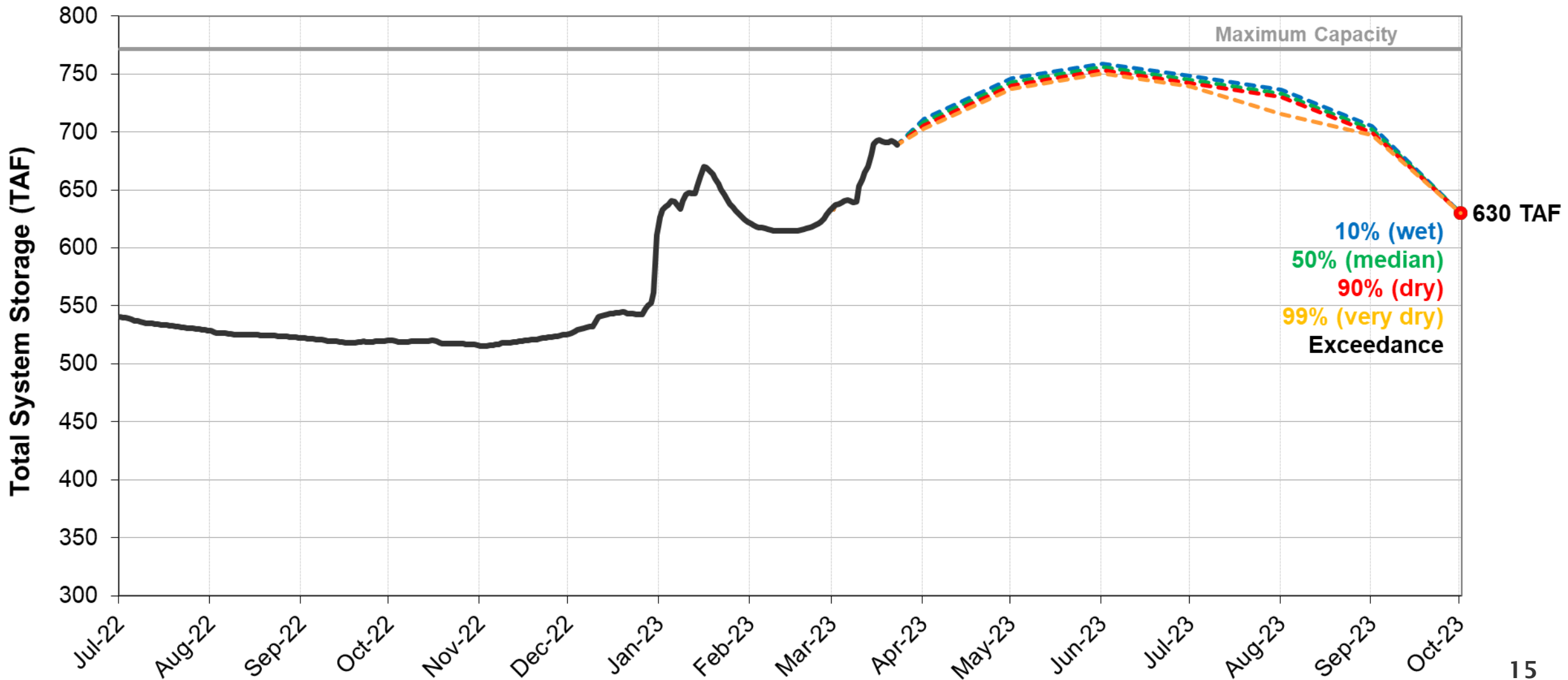
Water Supply Projections

Projected 2023 EBMUD Unimpaired Runoff



Water Supply Projections

Projected 2023 EBMUD Total System Storage



Questions ?



WATER SUPPLY ENGINEERING DAILY REPORT

Thursday, March 23, 2023

RESERVOIR STORAGE AND ELEVATION

	<u>WATER SURFACE</u>		<u>STORAGE</u>		<u>MAXIMUM CAPACITY</u>		Release	Spill
	Elevation	+Gain		+Gain	Elevation	Storage		
<u>MOKELUMNE</u>	<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	566.24	-0.57	200660	-1260	567.65	203795	3759	0
Camanche	224.18	-0.02	336440	-140	235.5	417120	4004	0
<u>EAST BAY</u>								
Briones	576.59	-0.09	59280	-60	576.14	58960	0	91
Chabot	229.4	0	11100	0	227.25	10350	0	288
Lafayette	438.41	0.05	2990	10	449.16	4250	0	0
San Pablo	314.4	-0.31	38520	-260	313.68	37915	0	225
Upper San Leandro	461.35	-0.26	39970	-200	459.98	38905	0	221
<u>Total East Bay Res.</u>			<u>151860</u>	<u>-510</u>		<u>150380</u>		
TOTAL SYSTEM STORAGE			688960	-1910		771295		

DISTRIBUTION SYSTEM			MOKELUMNE SYSTEM		
<u>DISTRIBUTION RESERVOIRS</u>			<u>AQUEDUCT DELIVERIES</u>		
	Storage	Operating		<u>MG</u>	<u>Flow Conditions</u>
	<u>MG</u>	<u>Capacity</u>	Line 1	14	THROTTLE
Today	369	720	Line 2	35.1	THROTTLE
Total Previous Day	<u>378</u>		Line 3	<u>30</u>	<u>THROTTLE</u>
Total Change	-9		TOTAL	79.1	122 Cfs
			<u>FSCC to MOK AQUEDUCTS (Measured at Brandt), MG</u>		
			Mok 1	0	
			Mok 2	<u>0</u>	
				0 MG	
<u>WATER PRODUCTION</u>	Million	Capacity	<u>RIVER FLOWS AND RELEASES</u>		
<u>AND DEMAND</u>	<u>Gallons</u>	<u>MGD</u>			<u>Cfs</u>
Lafayette WTP	0	25	Mokelumne River Natural Flow		2915
Orinda WTP	58	190	Pardee Reservoir Inflow		3232
San Pablo WTP	0	30	Pardee Release to Camanche Res.		3759
Sobrante WTP	19.7	50	Pardee Release to JVID		0
Upper San Leandro WTP	9.7	45	Camanche Release to Mokel. River		4004
Walnut Creek WTP	19.2	90			
<u>TOTAL SURFACE PRODUCTION</u>	106.6	430	<u>PG&E CO. STORAGE (Acre-feet)</u>		
Miscellaneous(Estimated)	0.4				Maximum
<u>TOTAL WATER PRODUCTION</u>	<u>107</u>			<u>Storage</u>	<u>Change</u>
Change in Distribution System	-9		Old Reservoirs	11632	-131
Wash Water from Distribution Sys.	1.9				26560
<u>SYSTEM DEMAND</u>	113.8		Salt Springs Res.	43006	-272
East-of-Hills Demand	19.3		Lower Bear Res.	<u>28172</u>	<u>-225</u>
West-of-Hills Demand	94.5		Total	82810	-628

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>Month</u>	<u>to-Date</u>	<u>Season to-Date</u>
Briones Res.	0	0	USL WTP	0	6.15	36.27	21.53
San Pablo Res.	6	68	Orinda WTP	0.05	9.45	46.6	27.3
U. San Leandro Res.	0	33	Lafayette Reservoir	0	5.71	32.7	24.14
			Walnut Creek WTP	0	7.06	38.81	20.02
TOTAL	6	101	Camp Pardee	0.19	4.93	30.95	17.56
<u>REMARKS</u>			Salt Springs P.H.	0.15	12.22	63.64	36.67
WID Canal Diversion = 44 cfs			<u>CAPLES LAKE (7,830 FT) DATA</u>				
Mokelumne River below WID = 3,730 cfs				<u>Today</u>	<u>Average</u>		
			Snow Depth	166 Inches	70 Inches		
			Water Content	62.4 Inches	27.7 Inches		

EAST BAY MUNICIPAL UTILITY DISTRICT