

Water Supply Update

Board of Directors

December 14, 2021

Water Supply Briefing



- Water Year 2021 Review
- Current Water Supply
- California Water Supply
- Water Supply Projections



Downstream of Pardee Spillway

Water Year 2021 Review



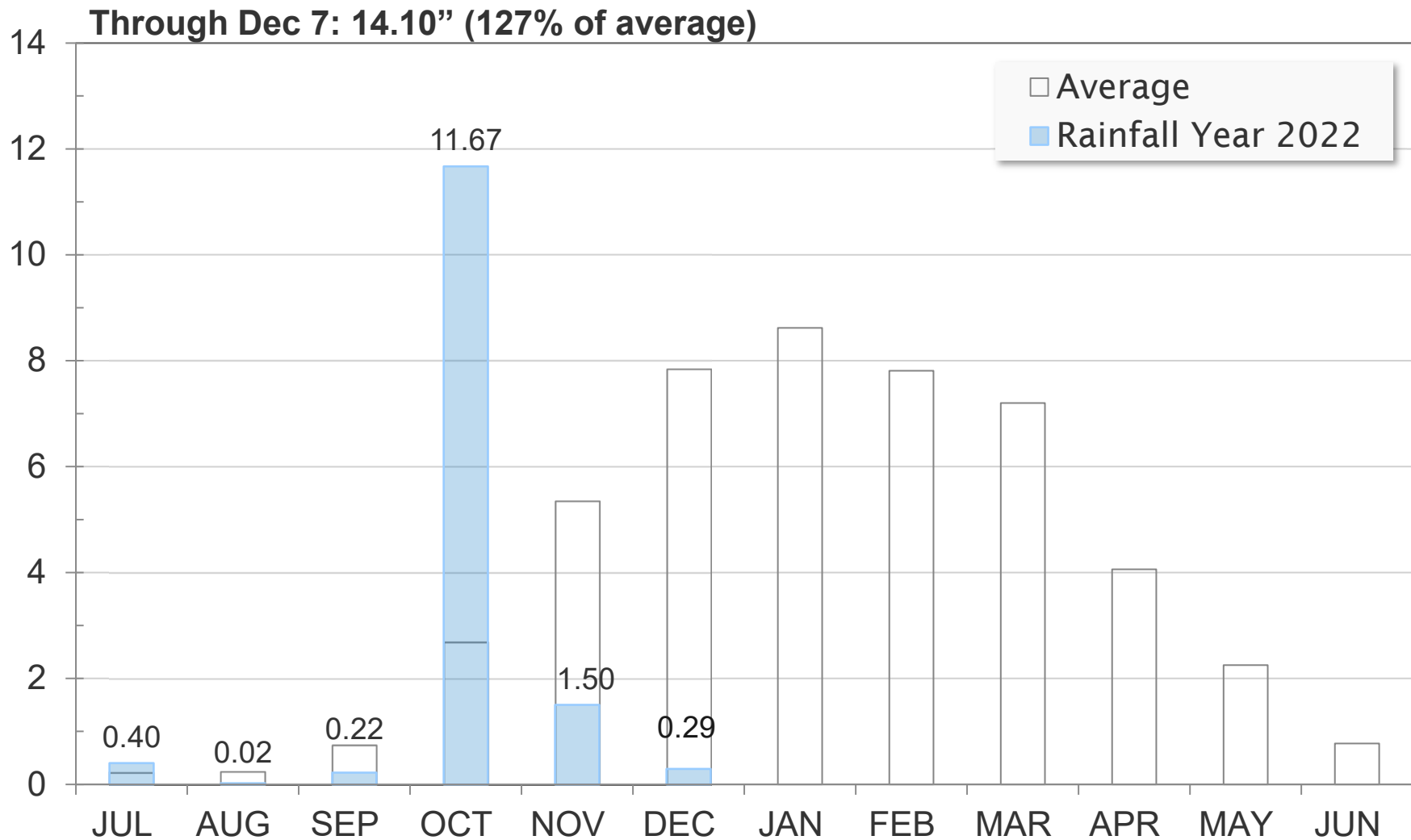
Upper Mokelumne Precipitation:	24.8" (48.3" avg)
Snow pack water content (max):	23.2" (31.8" avg)
Local Precipitation:	8.5" (26.8" avg)
Total unimpaired runoff:	218 TAF (740 TAF avg)
End of Water Year Storage:	437 TAF



Caples Lake

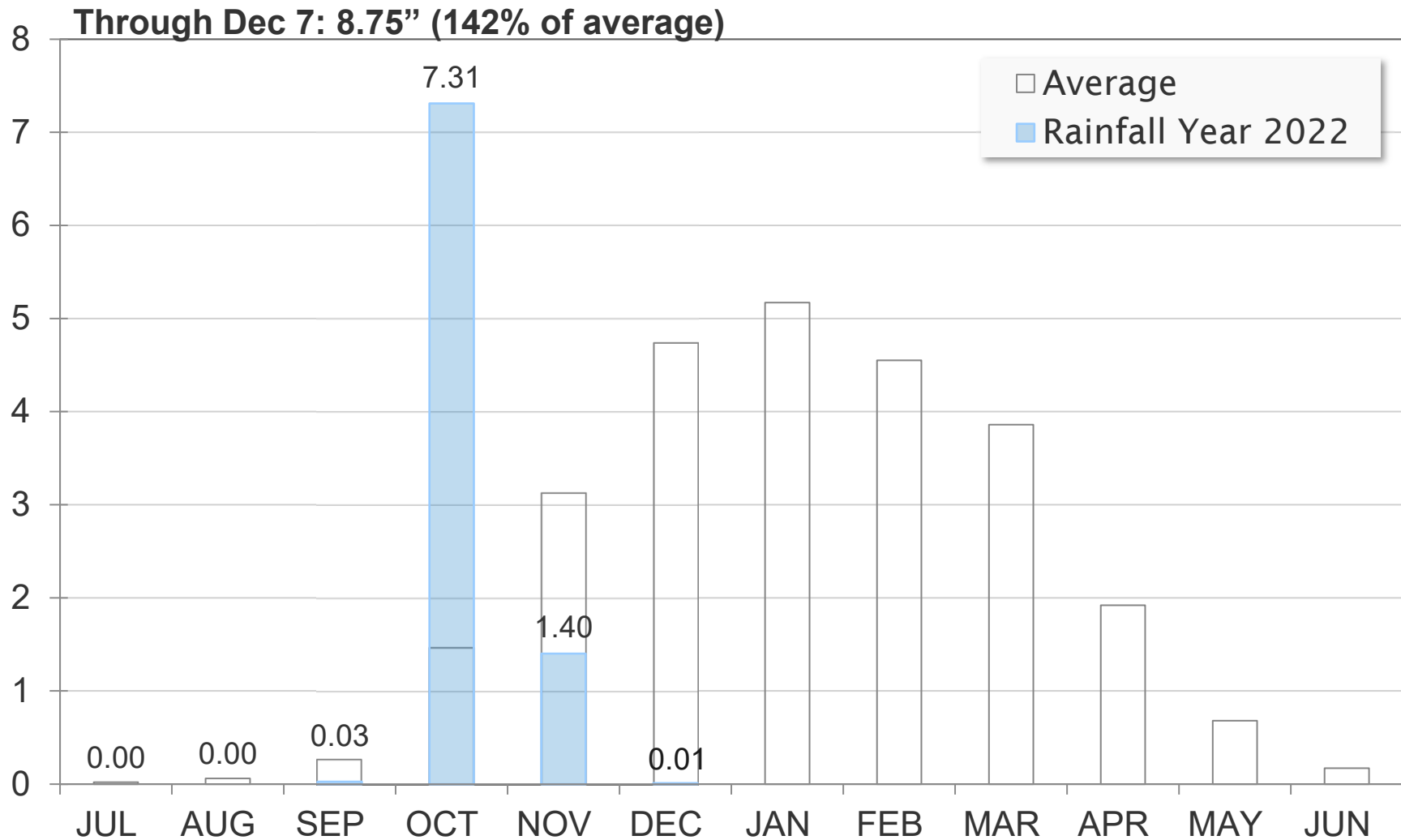
Current Water Supply

Mokelumne Precipitation



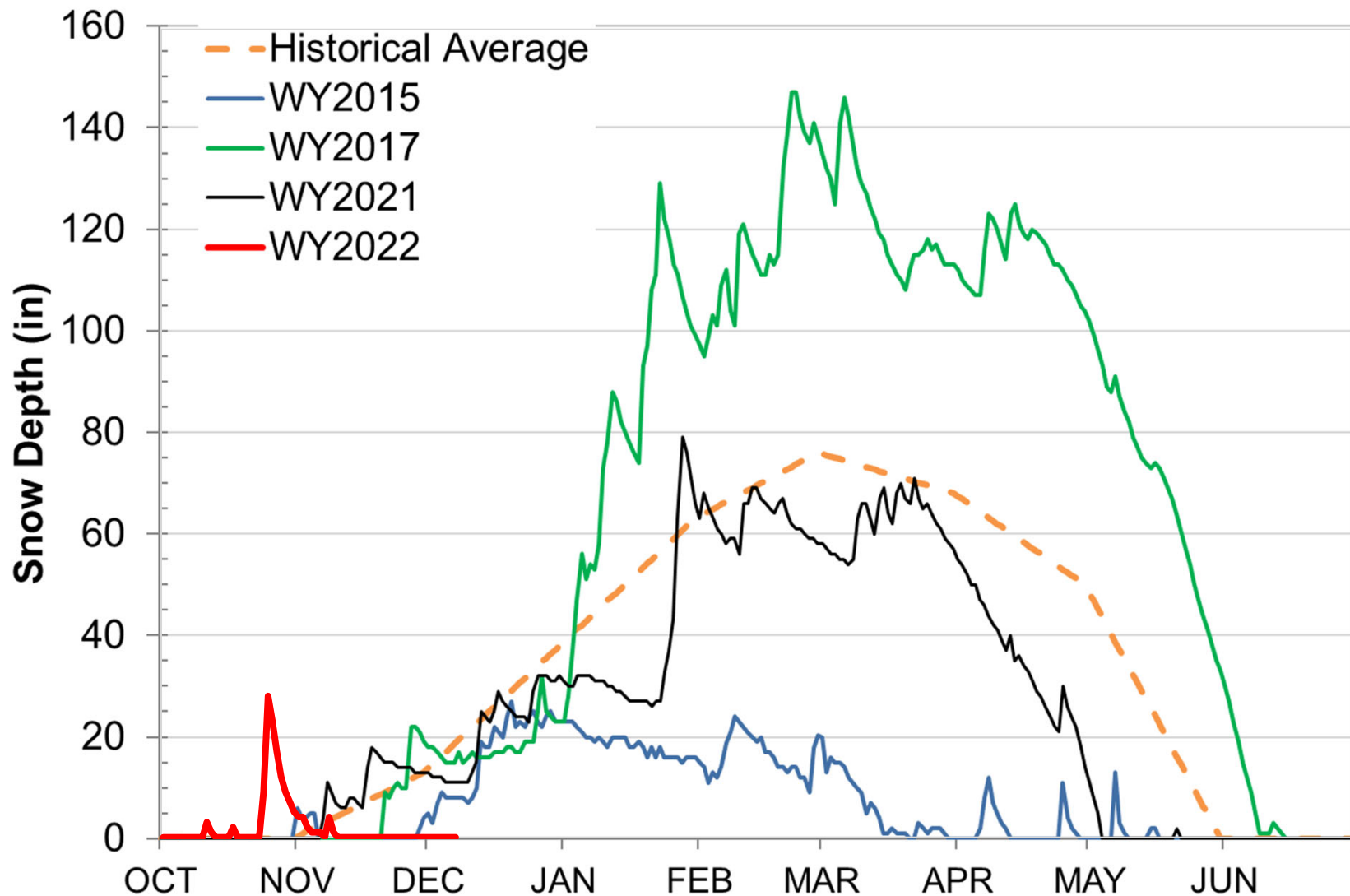
Current Water Supply

East Bay Precipitation



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 12/7/2021	Current Storage	Percent of Average	Percent of Capacity
Pardee	168,400 AF	97%	83%
Camanche	163,090 AF	64%	39%
East Bay	110,920 AF	96%	74%
Total System	442,410 AF	81%	57%

Water Supply Projections

Precipitation Forecasts for Dec '21 through Feb '22

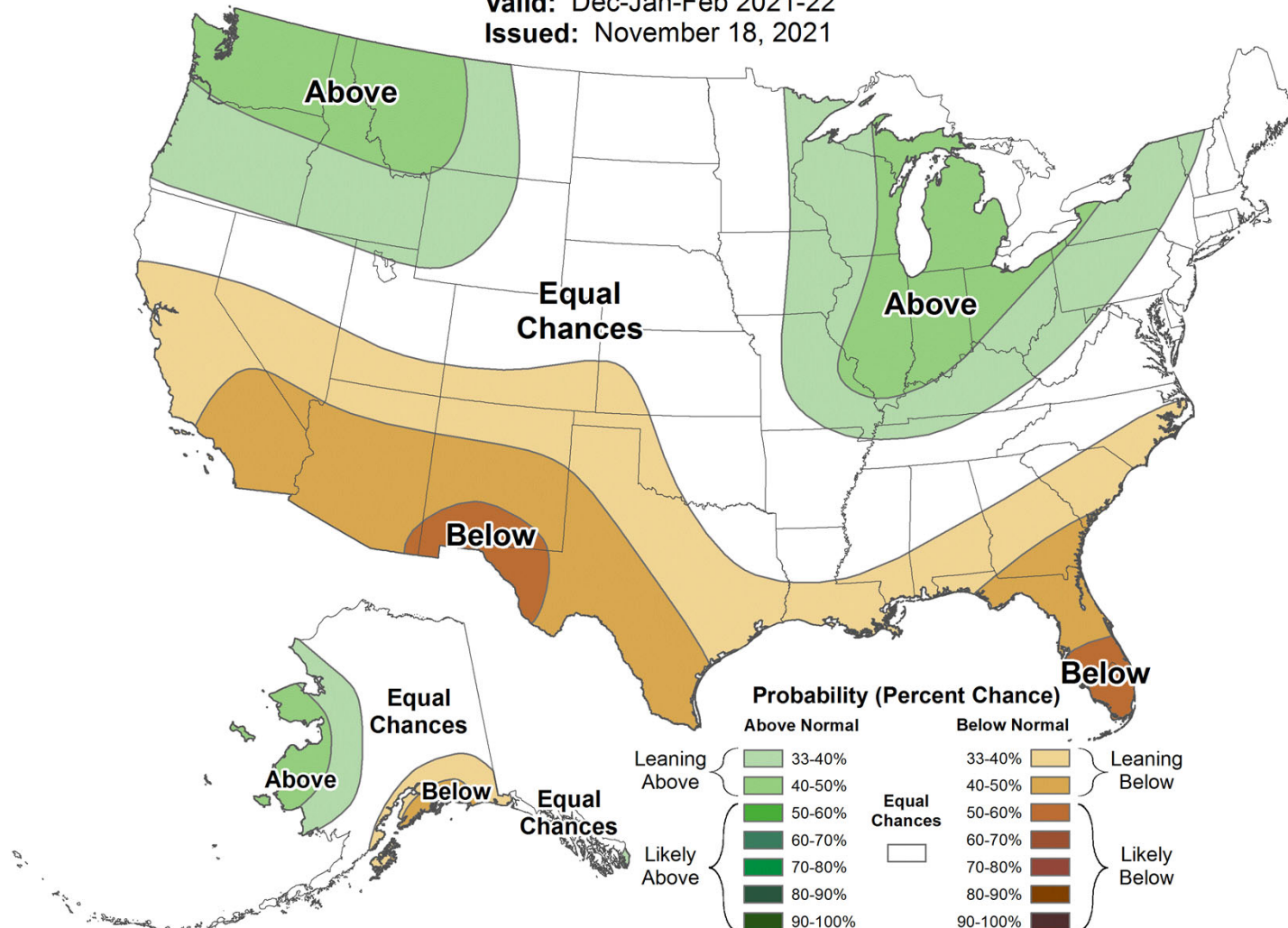


Seasonal Precipitation Outlook



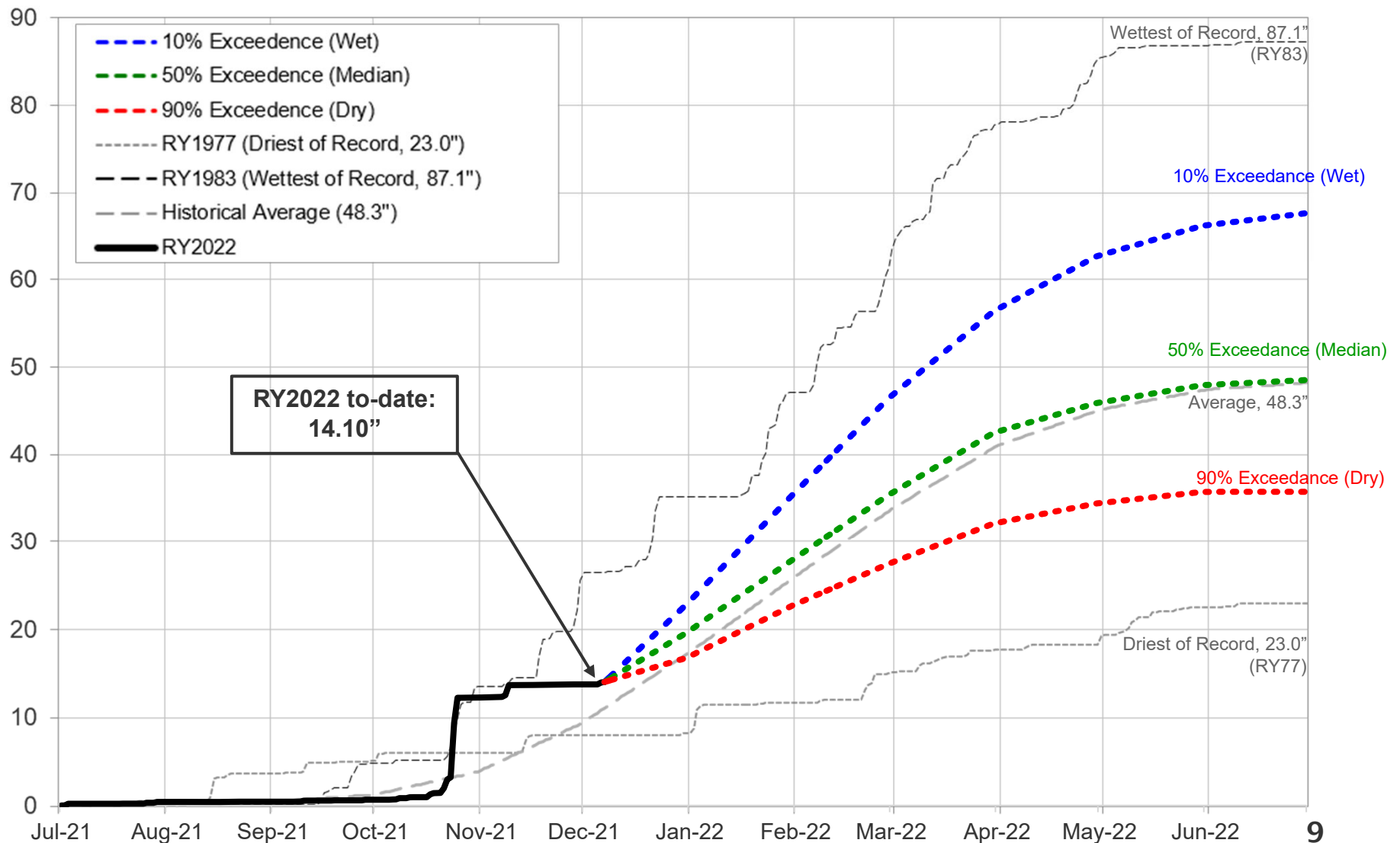
Valid: Dec-Jan-Feb 2021-22

Issued: November 18, 2021



Water Supply Projections

Mokelumne Precipitation Rainfall Year 2022

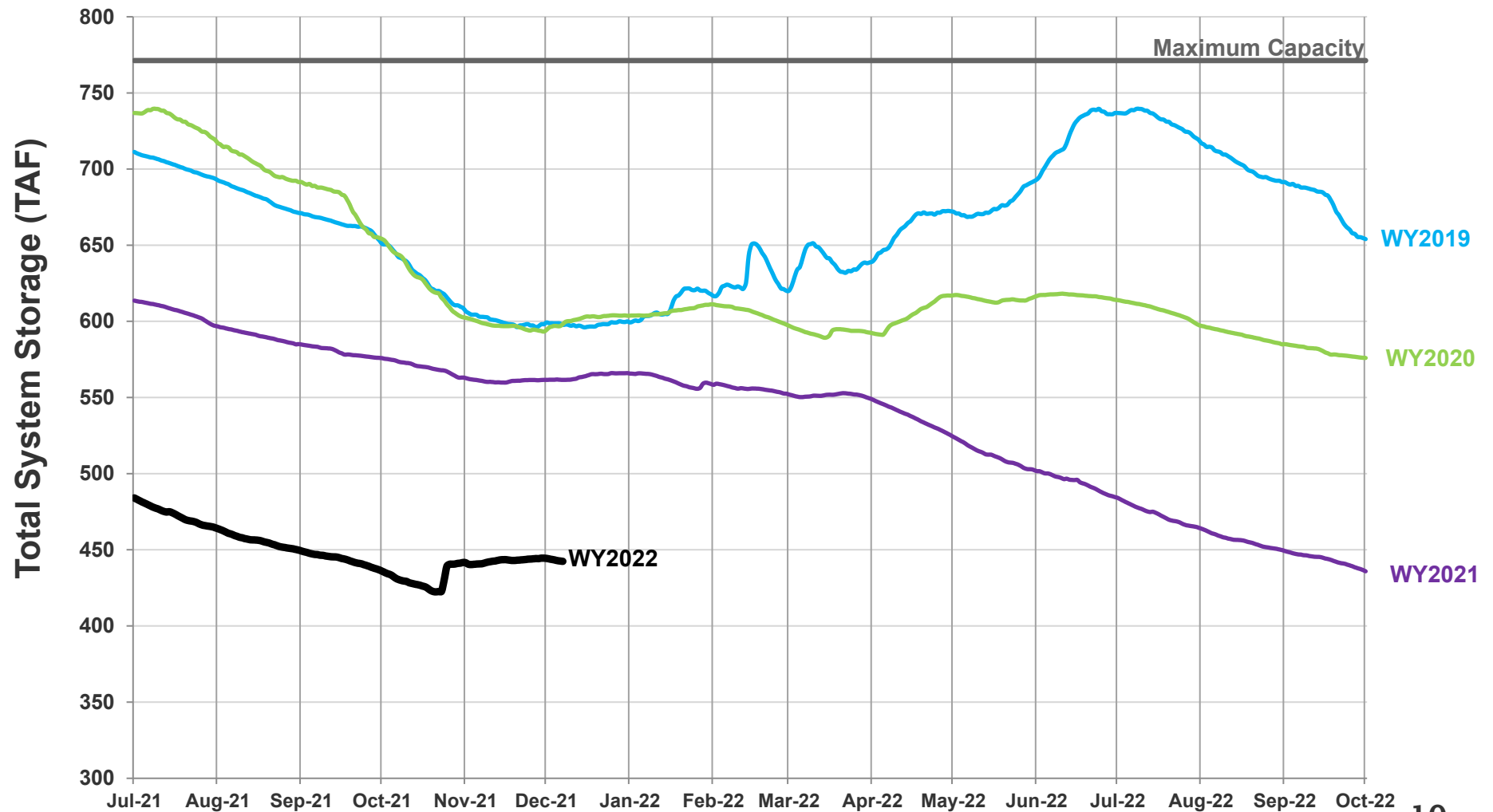


Water Supply Projections

EBMUD Total System Storage Comparison



Total System Storage

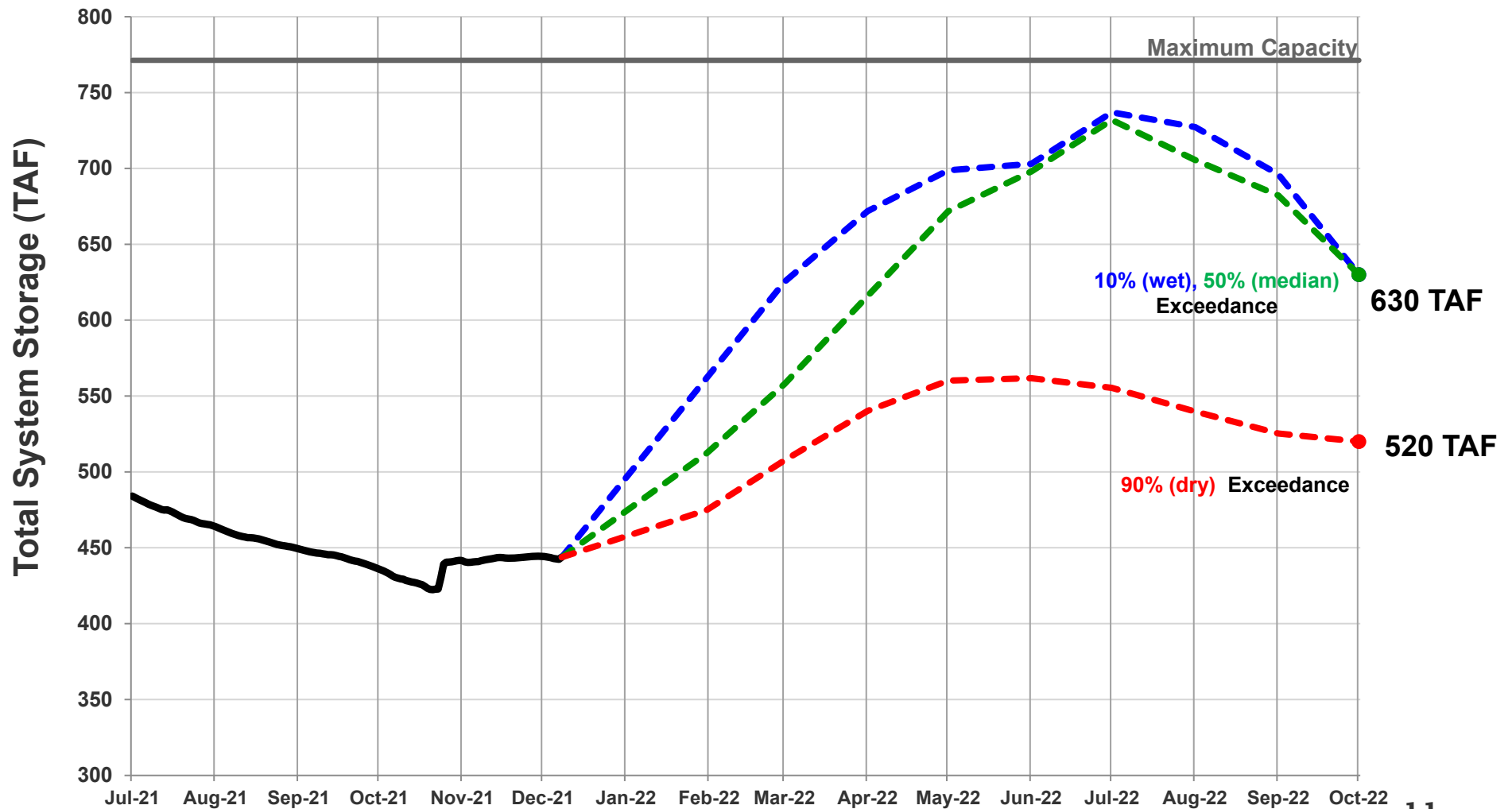


Water Supply Projections

Projected 2022 EBMUD Total System Storage



Total System Storage WY2022



Questions ?



Pardee Reservoir at Sunrise

WATER SUPPLY ENGINEERING DAILY REPORT

Tuesday, December 7, 2021

RESERVOIR STORAGE AND ELEVATION

	<u>WATER SURFACE</u>		<u>STORAGE</u>		<u>MAXIMUM CAPACITY</u>			
	Elevation							
	n	+Gain		+Gain	Elevation	Storage	Release	Spill
	Feet	-Loss	Ac-Ft	-Loss	Feet	Ac-Ft	Cfs	Cfs
<u>MOKELUMNE</u>								
Pardee	550.77	-0.01	168400	-20	567.65	203795	11	0
Camanche	193.72	-0.07	163090	-320	235.5	417120	226	0
<u>EAST BAY</u>								
Briones	562.13	0	49480	0	576.14	58960	0	0
Chabot	217.46	-0.01	7320	-10	227.25	10350	0	0
Lafayette	432.92	0	2410	0	449.16	4250	0	0
San Pablo	296.75	0.04	25240	20	313.68	37915	0	0
Upper San Leandro	441.4	0.14	<u>26470</u>	<u>80</u>	459.98	<u>38905</u>	0	0
<u>Total East Bay Res.</u>			<u>110920</u>	<u>90</u>		<u>150380</u>		
TOTAL SYSTEM STORAGE			442410	-250		771295		

DISTRIBUTION SYSTEM			MOKELUMNE SYSTEM		
<u>DISTRIBUTION RESERVOIRS</u>			<u>AQUEDUCT DELIVERIES</u>		
	Storage	Operating		<u>MG</u>	<u>Flow Conditions</u>
	MG	Capacity			
Today	369	720	Line 1	0	SHUTDOWN
Total Previous Day	<u>379</u>		Line 2	0	SHUTDOWN
Total Change	-10		Line 3	<u>80.5</u>	<u>THROTTLE</u>
			TOTAL	80.5	125 Cfs
			<u>FSCC to MOK AQUEDUCTS (Measured at Brandt), MG</u>		
			Mok 1	31.9	
			Mok 2	<u>38.8</u>	
				70.7 MG	
<u>WATER PRODUCTION</u>	Million	Capacity	<u>RIVER FLOWS AND RELEASES</u>		
<u>AND DEMAND</u>	Gallons	MGD			<u>Cfs</u>
Lafayette WTP	0	25	Mokelumne River Natural Flow		600
Orinda WTP	48	190	Pardee Reservoir Inflow		124
San Pablo WTP	0	30	Pardee Release to Camanche Res.		11
Sobrante WTP	0	50	Pardee Release to JVID		0
Upper San Leandro WTP	42.2	45	Camanche Release to Mokel. River		226
Walnut Creek WTP	30.5	90			
<u>TOTAL SURFACE PRODUCTION</u>	120.7	430	<u>PG&E CO. STORAGE (Acre-feet)</u>		
Miscellaneous(Estimated)	0.4				
<u>TOTAL WATER PRODUCTION</u>	<u>121.1</u>				
Change in Distribution System	-10				
Wash Water from Distribution Sys.	1.9				
<u>SYSTEM DEMAND</u>	128.8				
East-of-Hills Demand	25.1				
West-of-Hills Demand	103.7				

RAW WATER TRANSMISSION			PRECIPITATION (Inches)							
	INPUT	DRAFT		THIS YEAR			AVERAGE YEAR			
Briones Res.	0	0								
San Pablo Res.	25	0	STATION		This	Season	Season	Season		
U. San Leandro Res.	198	134		Today	Month	to-Date	to-Date	Total		
			USL WTP	0	0.01	9.24	6.13	25.33		
			Orinda WTP	0	0	12.91	7.14	32.06		
			Lafayette Reservoir	0.01	0.01	8.25	6.21	28.18		
			Walnut Creek WTP	0	0.03	9.15	5.04	23.02		
			Camp Pardee	0.04	0.13	9.08	4.86	21.56		
			Salt Springs P.H.	0.07	0.24	12.86	10.6	45.51		
			CAPLES LAKE (7,830 FT) DATA							
				Today		Average				
PG&E data as of 4:00 pm previous date.			Snow Depth	0 Inches		19 Inches				
All other data as of midnight.			Water Content	0.0 Inches		4.6 Inches				
WTP capacities are sustainable rates.										

EAST BAY MUNICIPAL UTILITY DISTRICT