



**State Water Resources Control Board
 Temporary Urgency Change Order (12/14/2022)
 Russian River Hydrologic Report
 March 10, 2023 - March 16, 2023**

Prepared as a requirement of the Order approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A, 12949, 12950, and 16596 (Applications 12919A, 15736, 15737, and 19351).

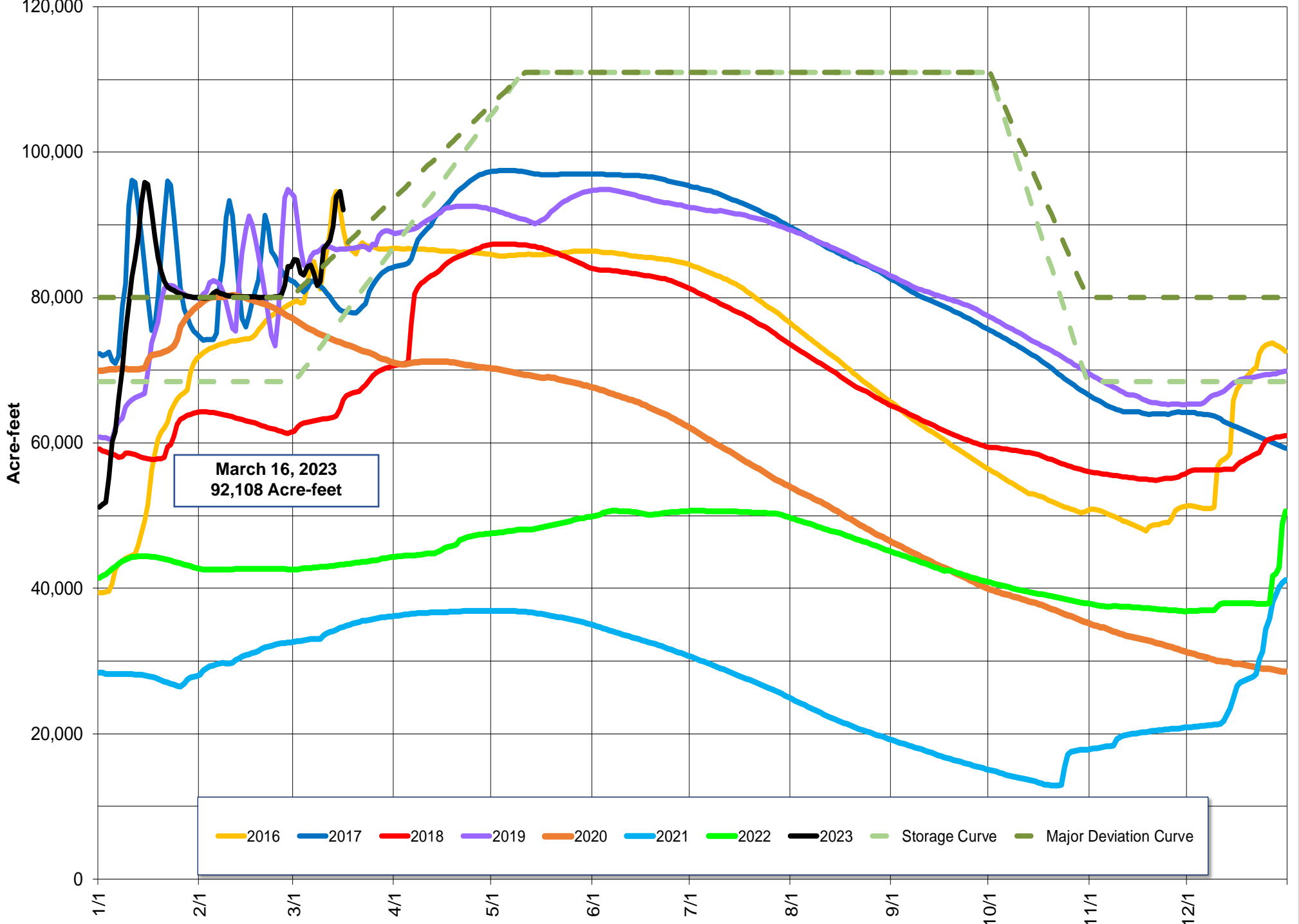
Instream Flow Requirements as of March 16, 2023

Basis	Reach	Instantaneous (cfs)	5-day Average (cfs)
Modified Per Order: Normal Condition	Upper Russian River	150	-
D-1610: Normal Condition	Dry Creek	75	-
Modified Per Order: Normal Condition	Lower Russian River	125	-

Upper and Lower Russian River based on criteria as established in the Order issued 12/14/2022.

Lake Mendocino

Lake Mendocino Storage 2016 - 2023 and Storage Curve

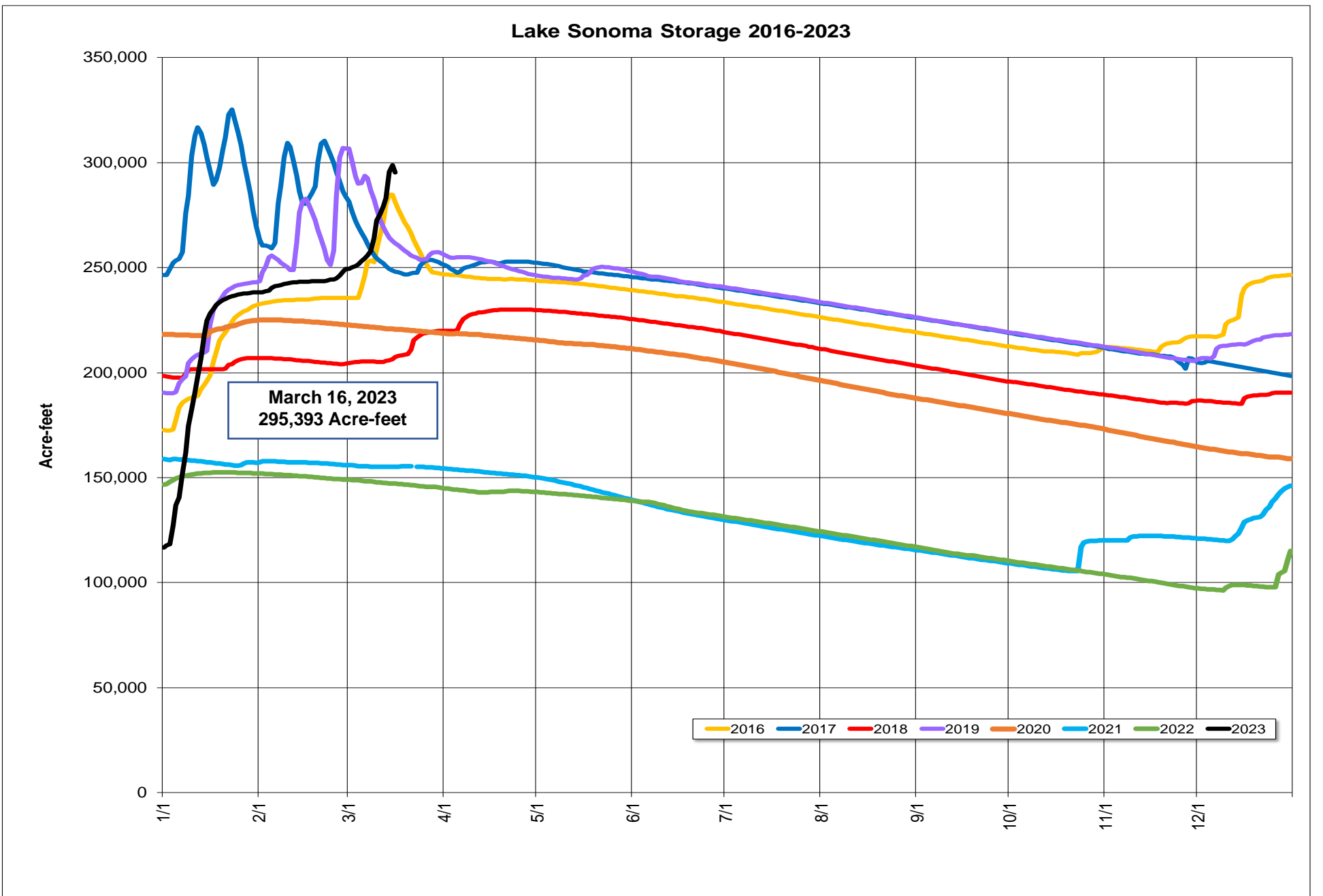


Storage (acre-feet)	March 16, 2023	92,108	
Change in Storage (acre-feet)	Last 30 days	12,003	Average Daily Rate 400
	Last 7 days	5,423	775
Daily Inflow (cfs)	Last 7 days	Min	190
		Max	2,391
		Mean	1,263
Release (cfs)	Last 7 days	Min	148
		Max	1,448
		Mean	548

Lake Sonoma



Nathan Baskett, March 3, 2011



Storage (acre-feet)	March 16, 2023	295,393	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
	Last 7 days	52,220	1,741
Daily Inflow (cfs)	Last 7 days	22,993	3,285
		Min	1,635
		Max	6,282
Release (cfs)	Last 7 days	Mean	3,100
		Min	82
		Max	3,909
		Mean	829

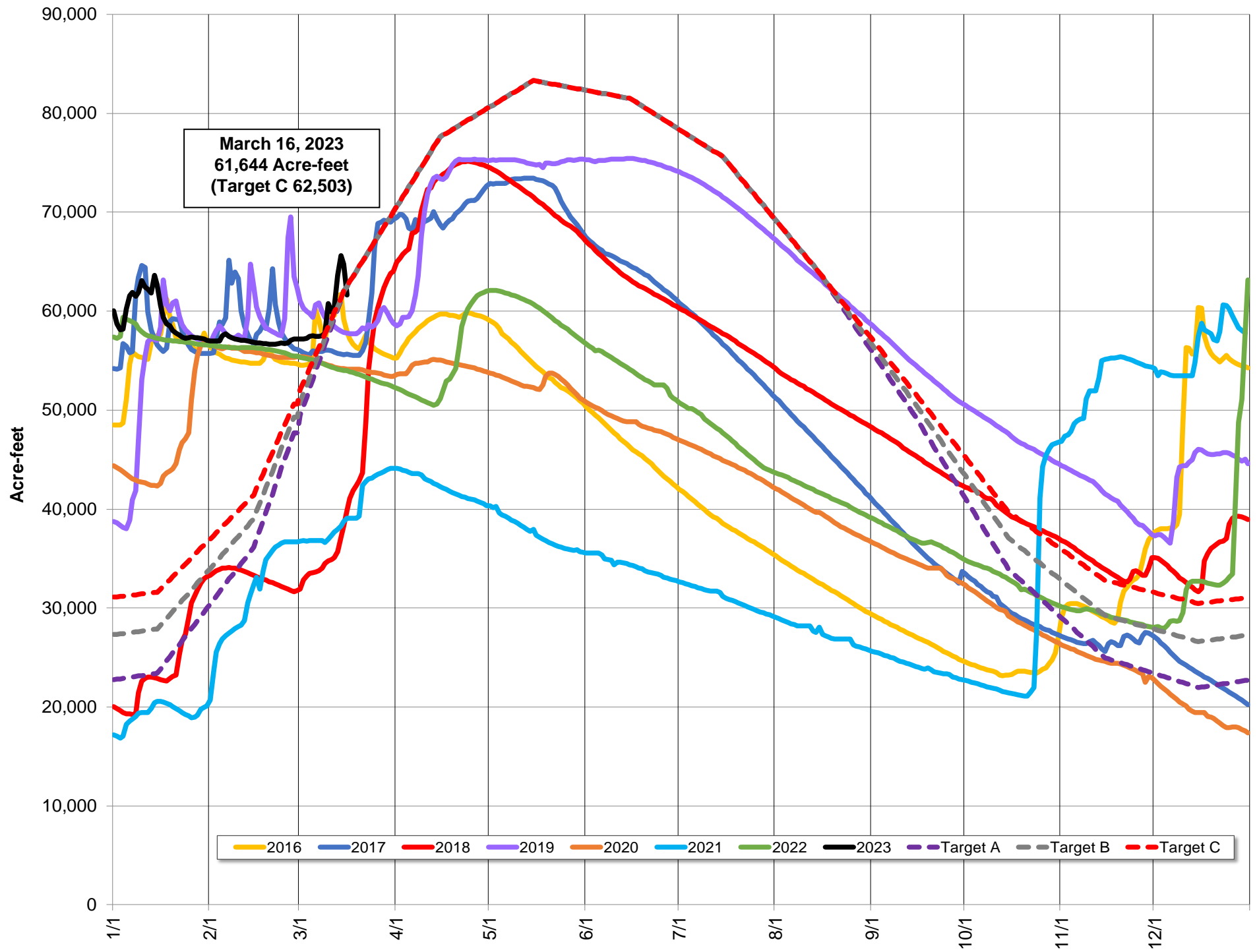
Potter Valley Project

PVP Diversion (cfs)	March 16, 2023	26
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2022 - March 23, 2023	411,772	2,466
	Last 7 days	86,328	12,333

*Inflow calculation based on criteria established in D1610

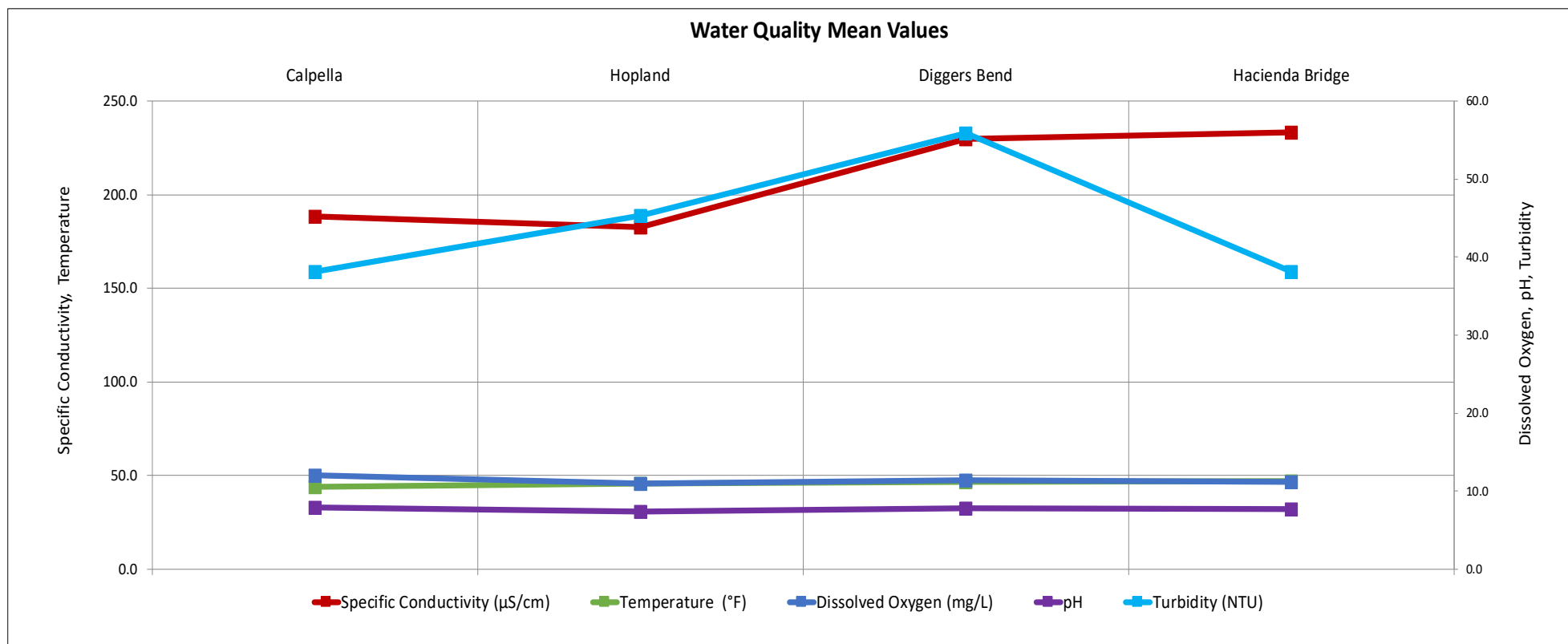
Lake Pillsbury Storage 2016 - 2023 and Target Storage Scenarios



Russian River Flows (March 10, 2023 - March 16, 2023)

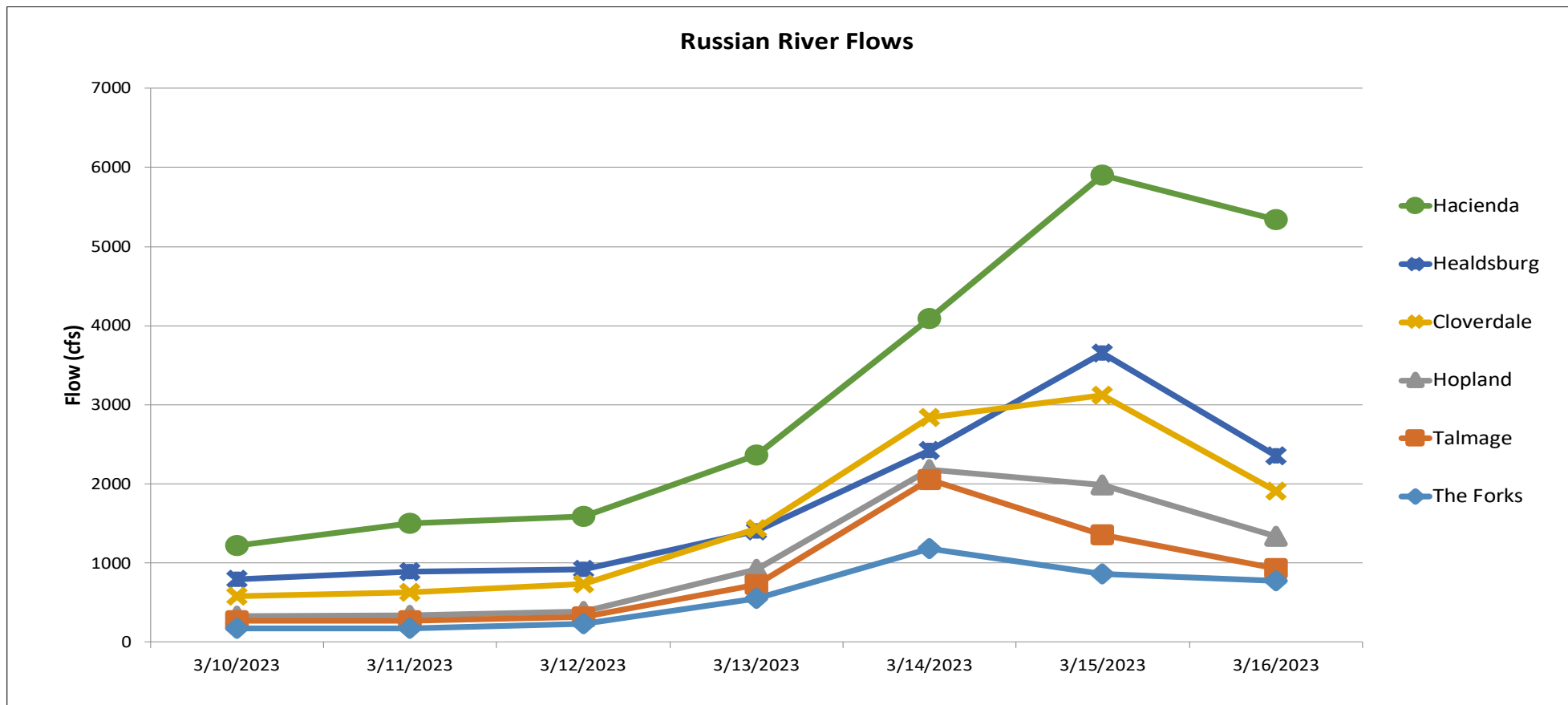
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	40.6	42.4		43.5	44.1		45.0	
	Max	47.1	48.9		50.2	49.6		49.6	
	Mean	44.1	45.7		46.5	46.7		47.1	
Specific Conductivity (µS/cm)	Min	103.0	102.0			146.0		162.0	
	Max	247.0	240.0			314.0		311.0	
	Mean	188.3	182.6			229.8		233.5	
Dissolved Oxygen (mg/L)	Min	9.6	10.4			10.4		10.9	
	Max	12.9	11.8			11.9		11.6	
	Mean	12.0	11.0			11.4		11.2	
Dissolved Oxygen (% Saturation)	Min	76.3	87.2			91.0		93.6	
	Max	107.6	96.5			100.0		99.1	
	Mean	98.6	92.6			96.7		95.6	
pH	Min	7.6	7.3			7.8		7.5	
	Max	8.3	7.6			7.9		7.8	
	Mean	7.9	7.4			7.8		7.7	
Turbidity (NTU)	Min	5.0	12.1			4.4		6.0	
	Max	288.0	220.0			646.0		108.0	
	Mean	38.2	45.3			55.9		38.2	

*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	Mar 10, 2023	Mar 11, 2023	Mar 12, 2023	Mar 13, 2023	Mar 14, 2023	Mar 15, 2023	Mar 16, 2023
The Forks*	173	179	232	548	1184	866	776
Talmage USGS 11462080	267	274	315	725	2052	1357	929
Hopland USGS 11462500	325	342	384	924	2183	1988	1334
Cloverdale USGS 11463000	580	625	735	1432	2840	3121	1905
Healdsburg USGS 11464000	790	893	923	1403	2421	3649	2351
Hacienda USGS 11467000	1223	1500	1588	2369	4093	5898	5344

*West Fork(USGS 11461000) + East Fork (Coyote Valley Dam Release)

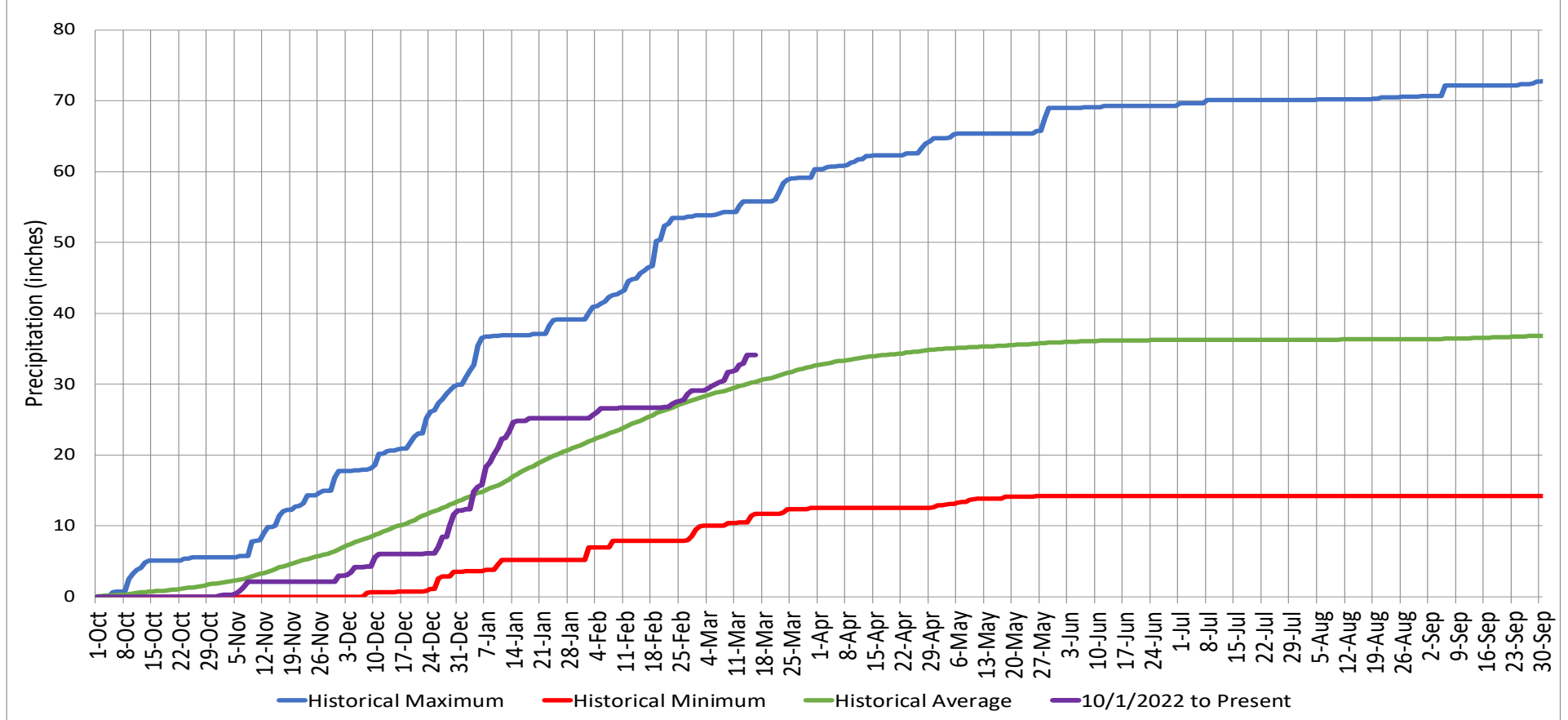


Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

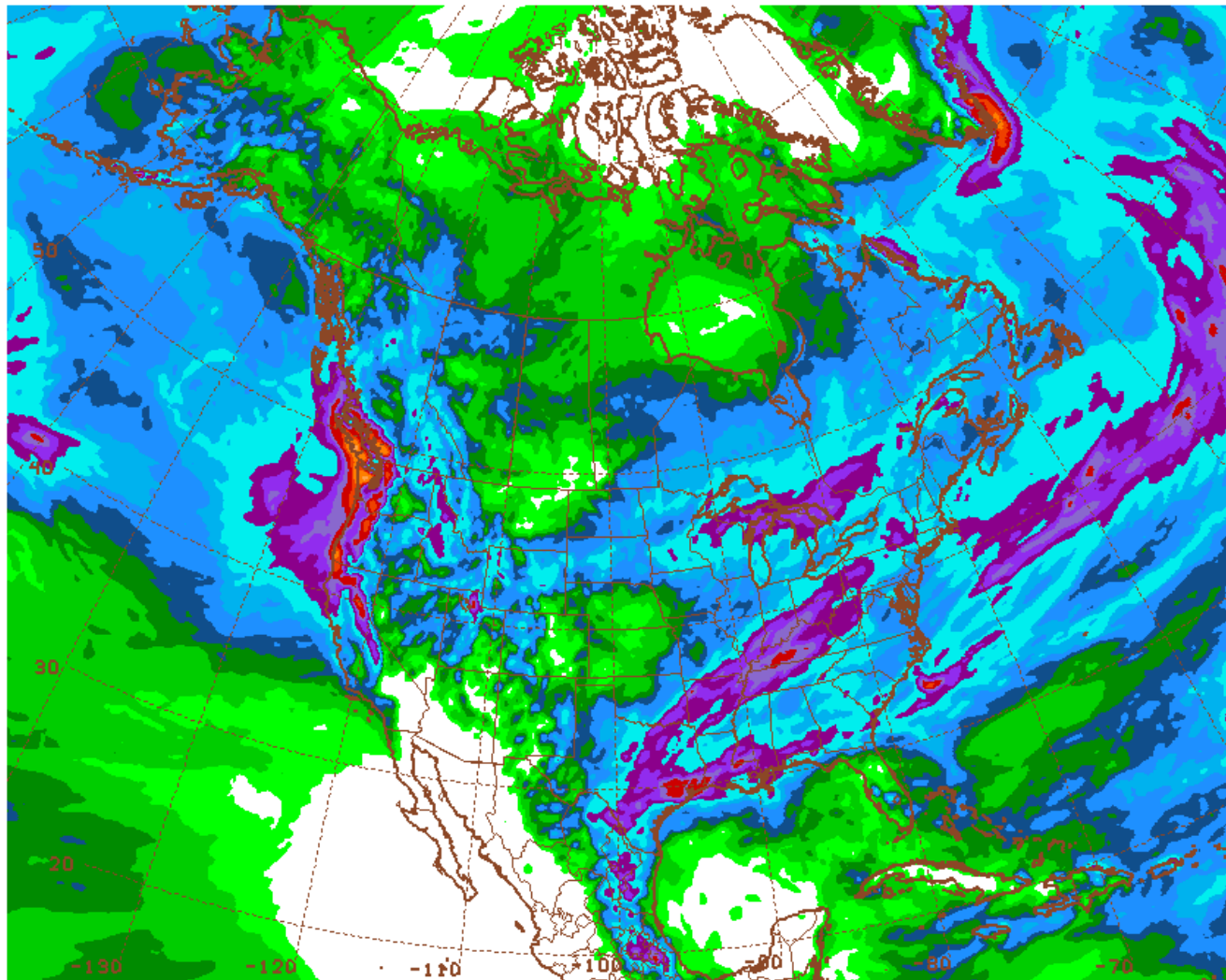
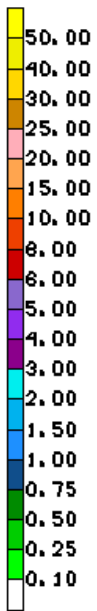
Date Range	Cumulative (inches)
Oct 1, 2022 - Mar 16, 2023	34.82
Last 7 Days*	2.42

Cumulative Precipitation Comparison of Current Year versus Historic Record



Global Forecast System Model 16-day Cumulative Precipitation Forecast

GFS 03/27/23 12UTC 384HR FCST VALID WED 04/12/23 12UTC NOAA/NWS/NCEP



GFS WED 230412/1200Y384 384HR ACCUMULATED PRECIP (IN)

Date Range
Mar 27 - Apr 12, 2023

Forecasted Cumulative (inches)
2.90