



**State Water Resources Control Board
 Temporary Urgency Change Order (12/14/2022)
 Russian River Hydrologic Report
 January 6, 2023 - January 12, 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).

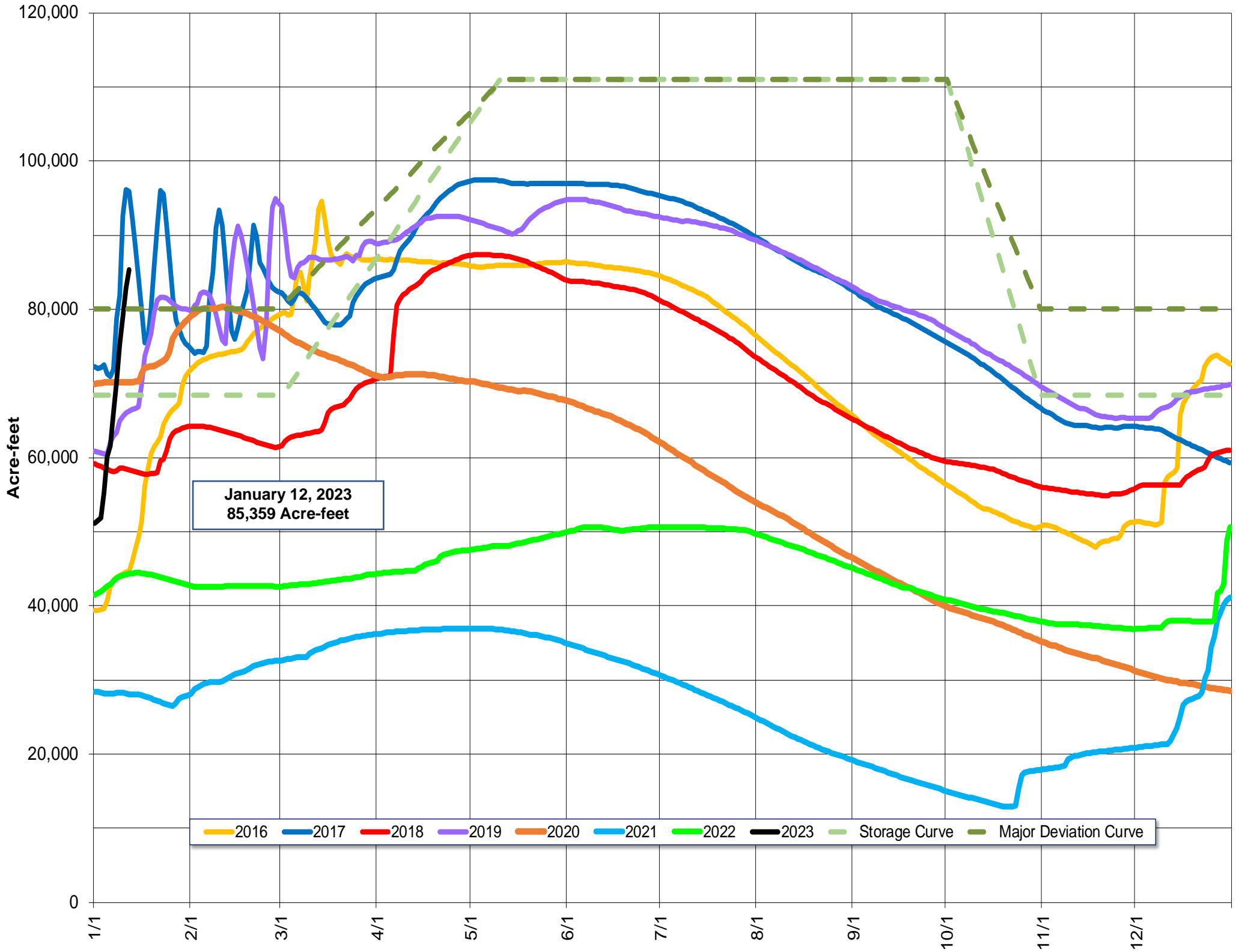
Instream Flow Requirements as of January 12, 2023

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



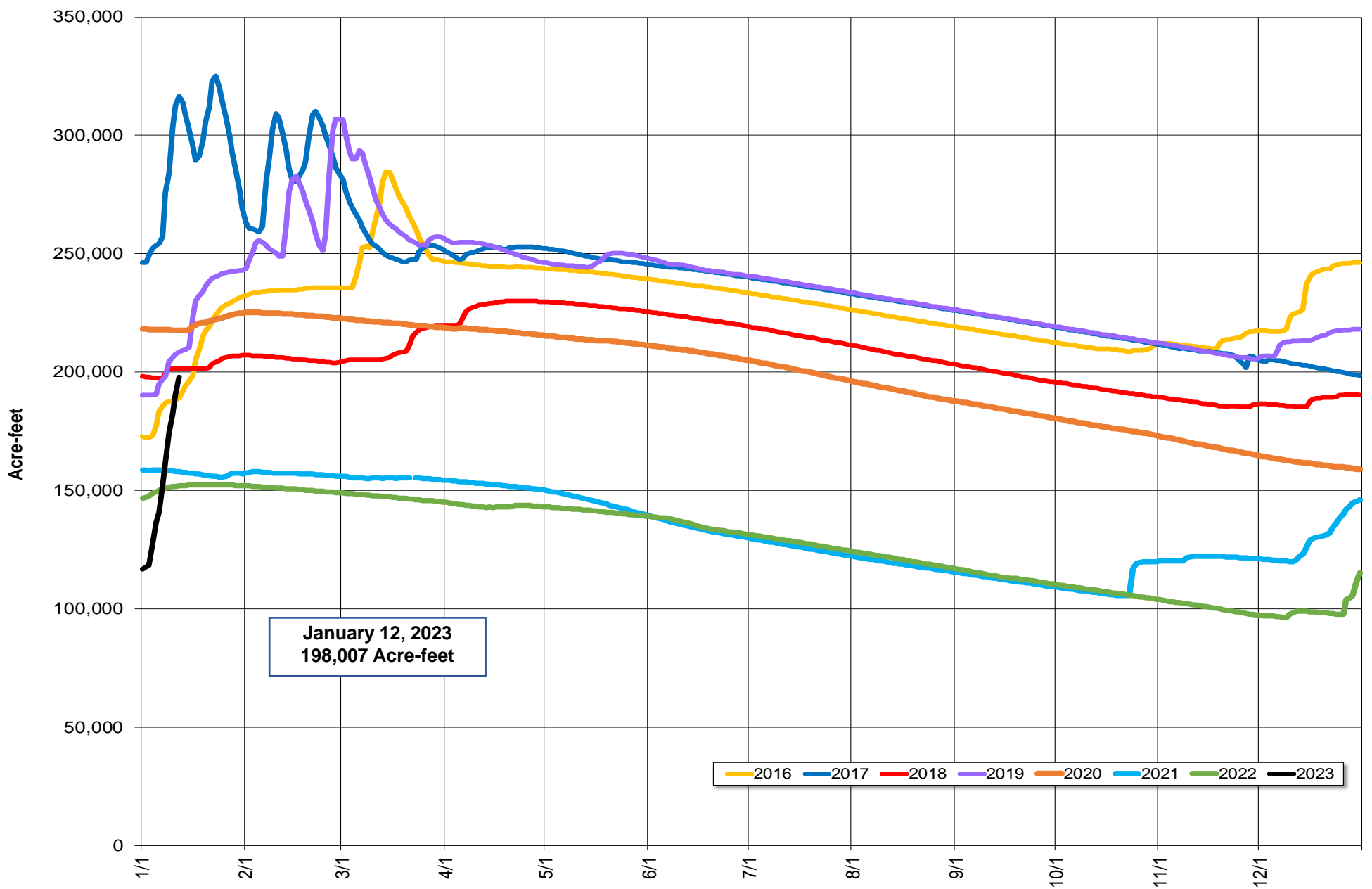
Storage (acre-feet)	January 12, 2023	85,359	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	47,383	1,579
	Last 7 days	23,817	3,402
Daily Inflow (cfs)	Last 7 days	Min	756
		Max	2,589
		Mean	1,849
Release (cfs)	Last 7 days	Min	27
		Max	28
		Mean	27

Lake Sonoma



Nathan Baskett, March 3, 2011

Lake Sonoma Storage 2016-2023



Storage (acre-feet)	January 12, 2023	198,007	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	99,029	3,301
	Last 7 days	57,443	8,206
Daily Inflow (cfs)	Last 7 days	Min	1,982
		Max	6,505
		Mean	4,500
Release (cfs)	Last 7 days	Min	86
		Max	112
		Mean	90

Potter Valley Project

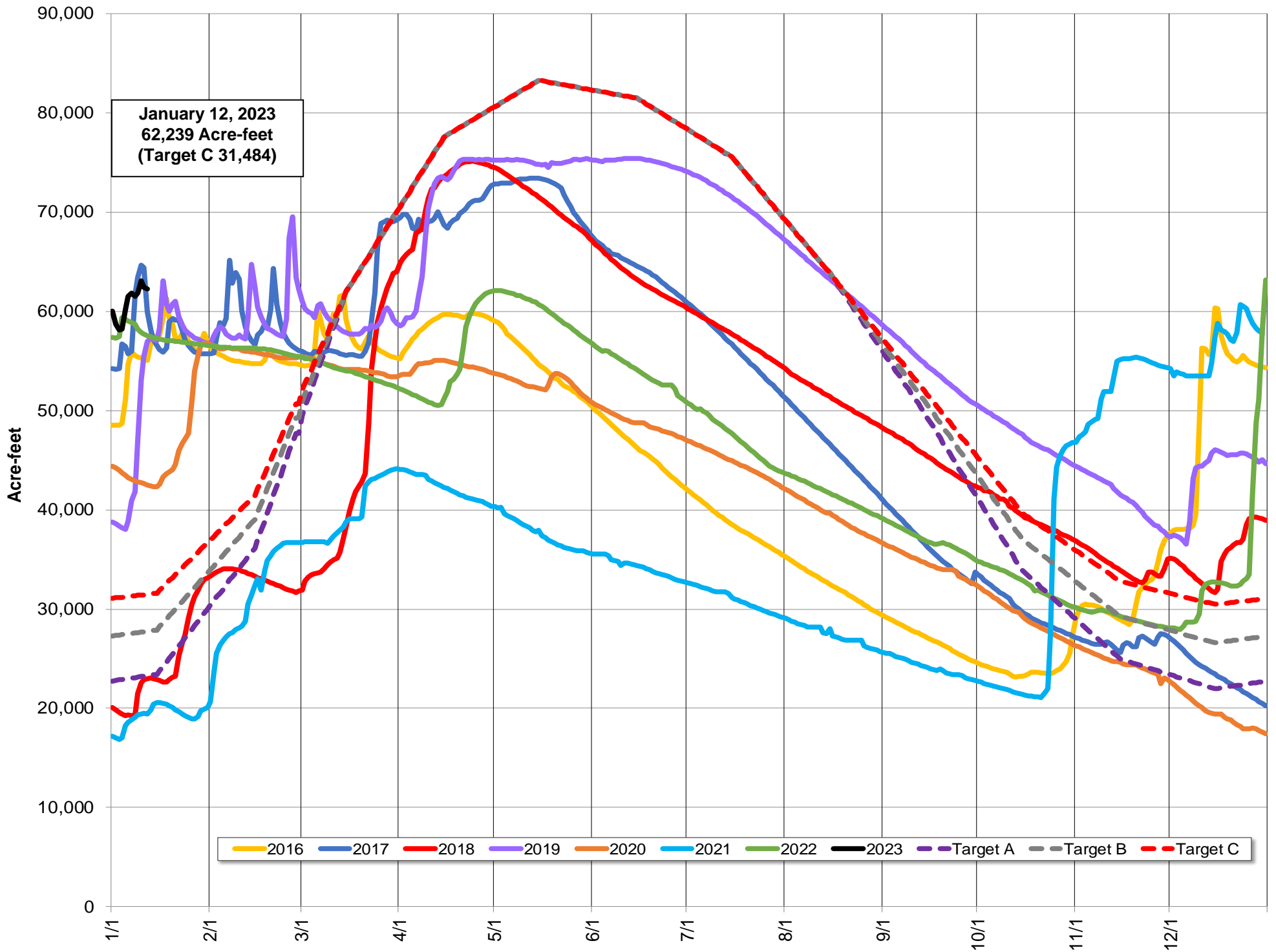
PVP Diversion (cfs)	January 12, 2023	2
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Lake Pillsbury

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2022 - January 12, 2023	183,417	1,764
	Last 7 days	80,424	11,489

*Inflow calculation based on criteria established in D1610

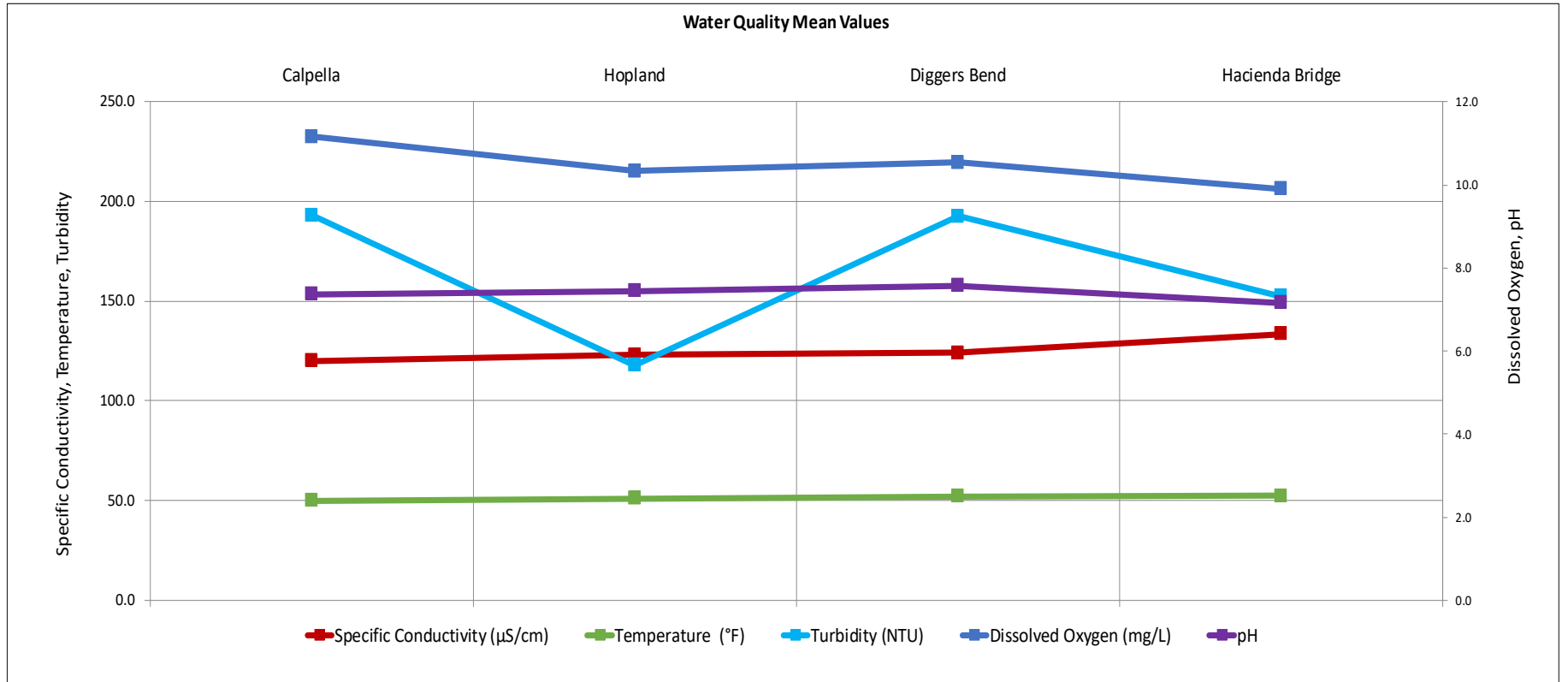
Lake Pillsbury Storage 2016 - 2023 and Target Storage Scenarios



Russian River Flows (January 6, 2023 - January 12, 2023)

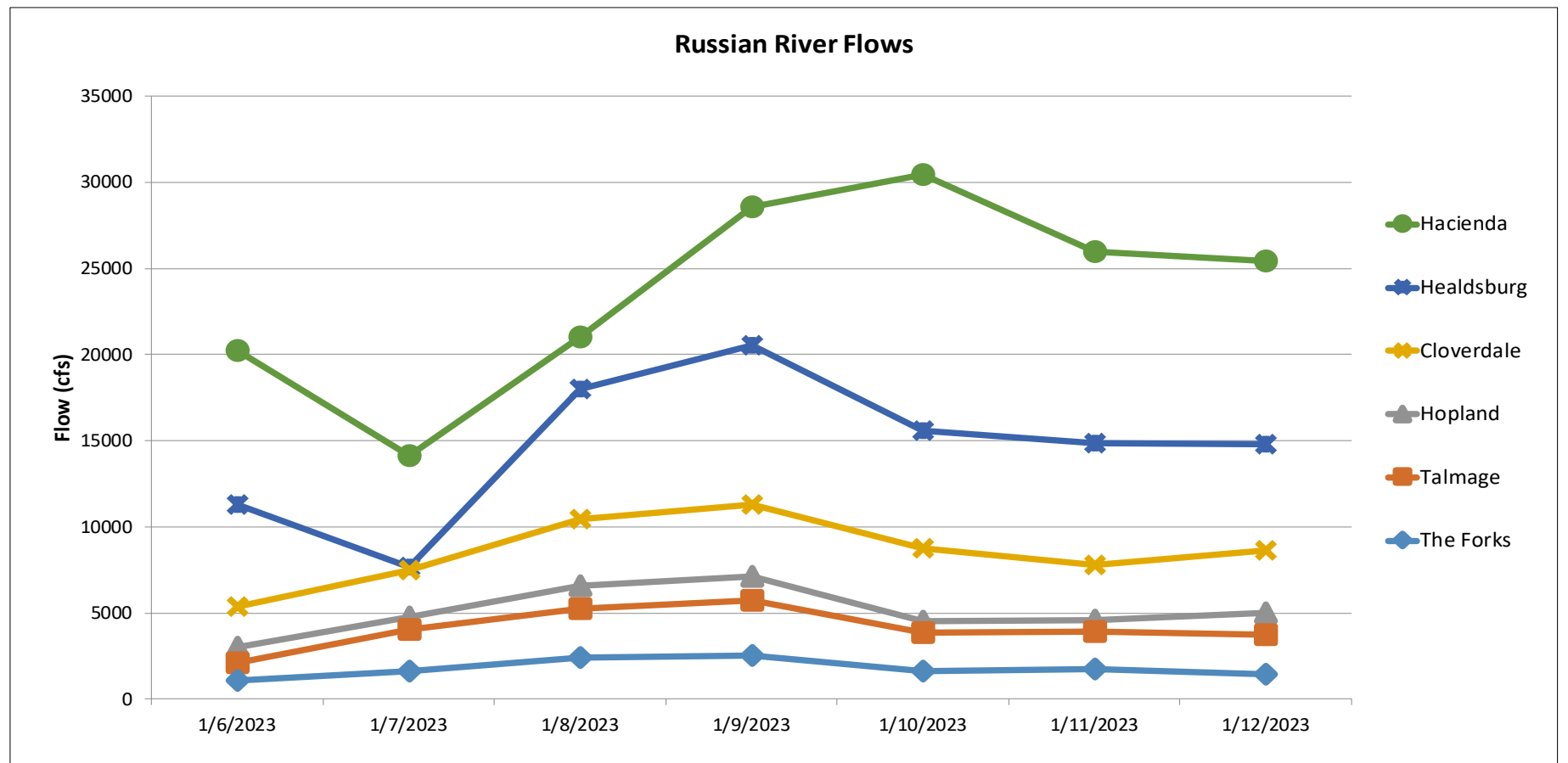
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	47.5	49.3		50.4	50.5		50.7	
	Max	53.2	53.6		53.8	54.0		53.8	
	Mean	50.0	51.0		51.9	52.1		52.2	
Specific Conductivity (µS/cm)	Min	82.0	98.0			103.0		112.0	
	Max	151.0	153.0			165.0		169.0	
	Mean	120.0	123.1			124.0		133.5	
Dissolved Oxygen (mg/L)	Min	10.0	9.3			10.2		9.5	
	Max	11.8	10.9			10.8		10.4	
	Mean	11.2	10.3			10.5		9.9	
Dissolved Oxygen (% Saturation)	Min	89.5	84.9			93.8		86.1	
	Max	101.6	96.1			97.9		93.8	
	Mean	98.9	92.7			95.9		90.2	
pH	Min	7.2	7.3			7.5		7.1	
	Max	7.5	7.6			7.6		7.3	
	Mean	7.4	7.4			7.6		7.2	
Turbidity (NTU)	Min	14.2	46.2			71.6		56.5	
	Max	1020.0	305.0			501.0		388.0	
	Mean	193.1	118.0			192.8		152.4	

*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	Jan 6, 2023	Jan 7, 2023	Jan 8, 2023	Jan 9, 2023	Jan 10, 2023	Jan 11, 2023	Jan 12, 2023
The Forks*	1052	1592	2402	2527	1638	1728	1441
Talmage USGS 11462080	2124	4024	5241	5755	3867	3922	3733
Hopland USGS 11462500	3016	4777	6598	7118	4529	4594	5002
Cloverdale USGS 11463000	5362	7484	10469	11286	8745	7806	8639
Healdsburg USGS 11464000	11299	7639	18029	20529	15576	14872	14798
Hacienda USGS 11467000	20211	14152	20999	28554	30434	25961	25425

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

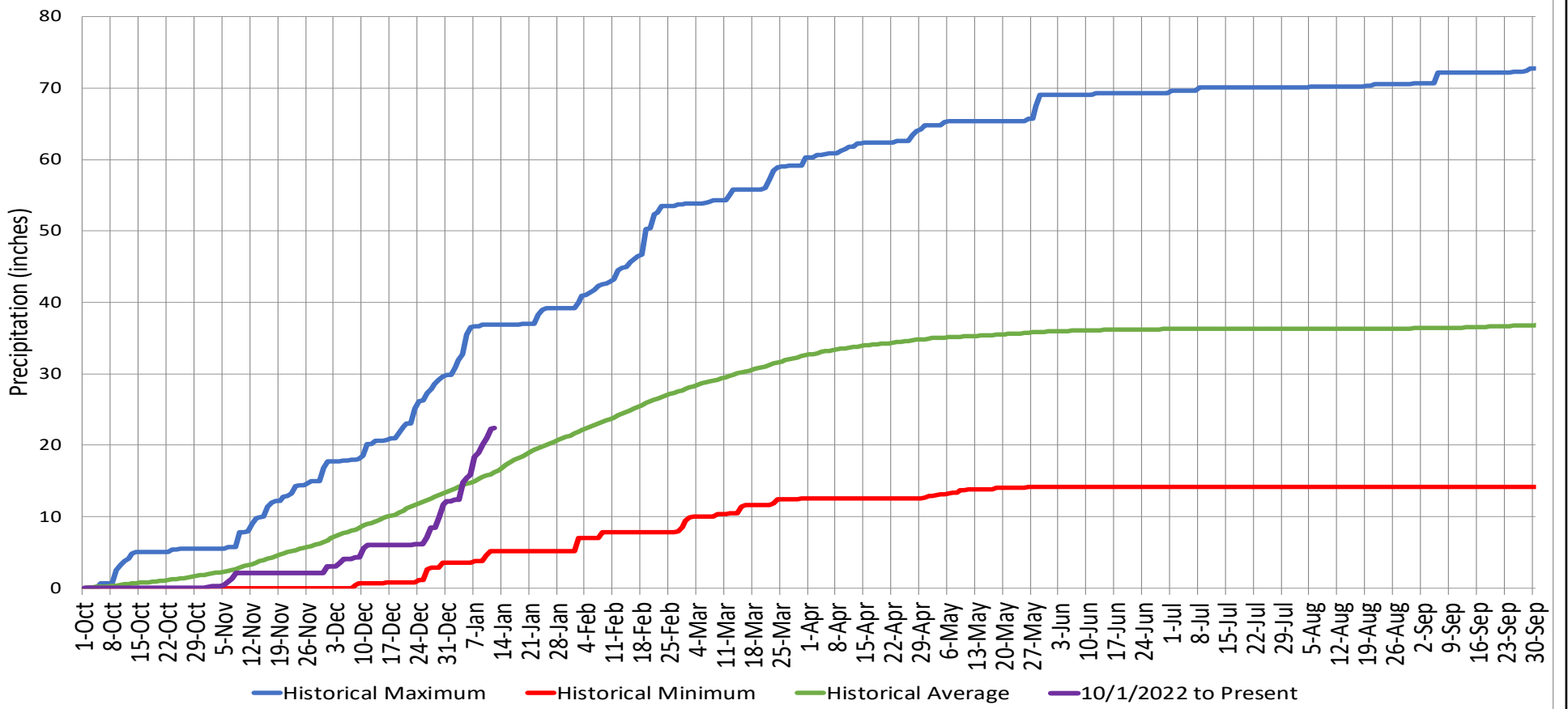


Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

Date Range	Cumulative (inches)
Oct 1, 2022 - Jan 12, 2023	22.37
Last 7 Days*	6.83

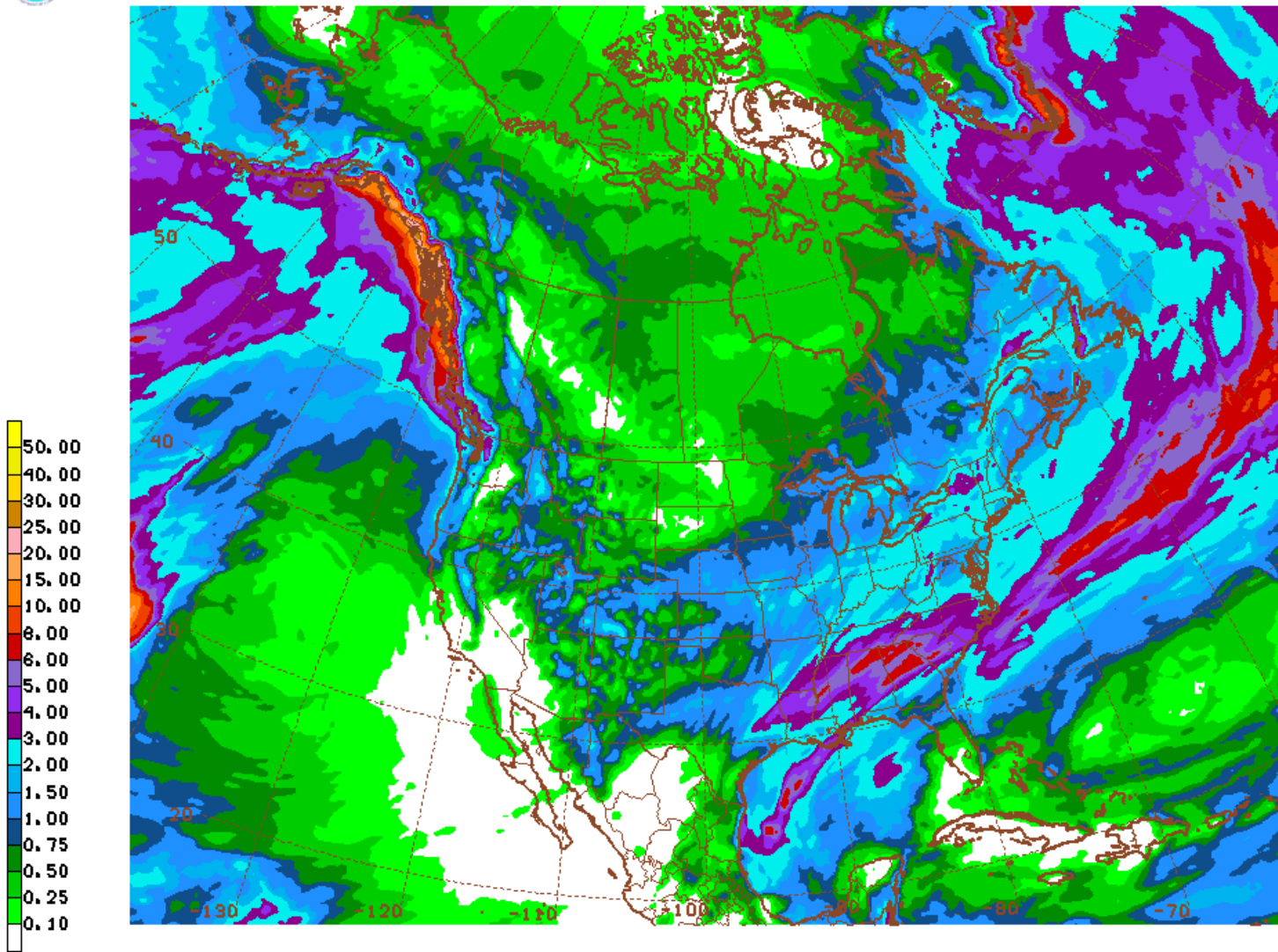
Cumulative Precipitation Comparison of Current Year versus Historic Record



Global Forecast System Model 16-day Cumulative Precipitation Forecast



GFS 01/17/23 12UTC 384HR FCST VALID THU 02/02/23 12UTC NOAA/NWS/NCEP



GFS THU 230202/1200V384 384HR ACCUMULATED PRECIP (IN)

Date Range	Forecasted Cumulative (inches)
Jan 17 - Feb 2, 2023	0.38