



**State Water Resources Control Board
 Temporary Urgency Change Order (12/14/2022)
 Russian River Hydrologic Report
 January 20, 2023 - January 26, 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).

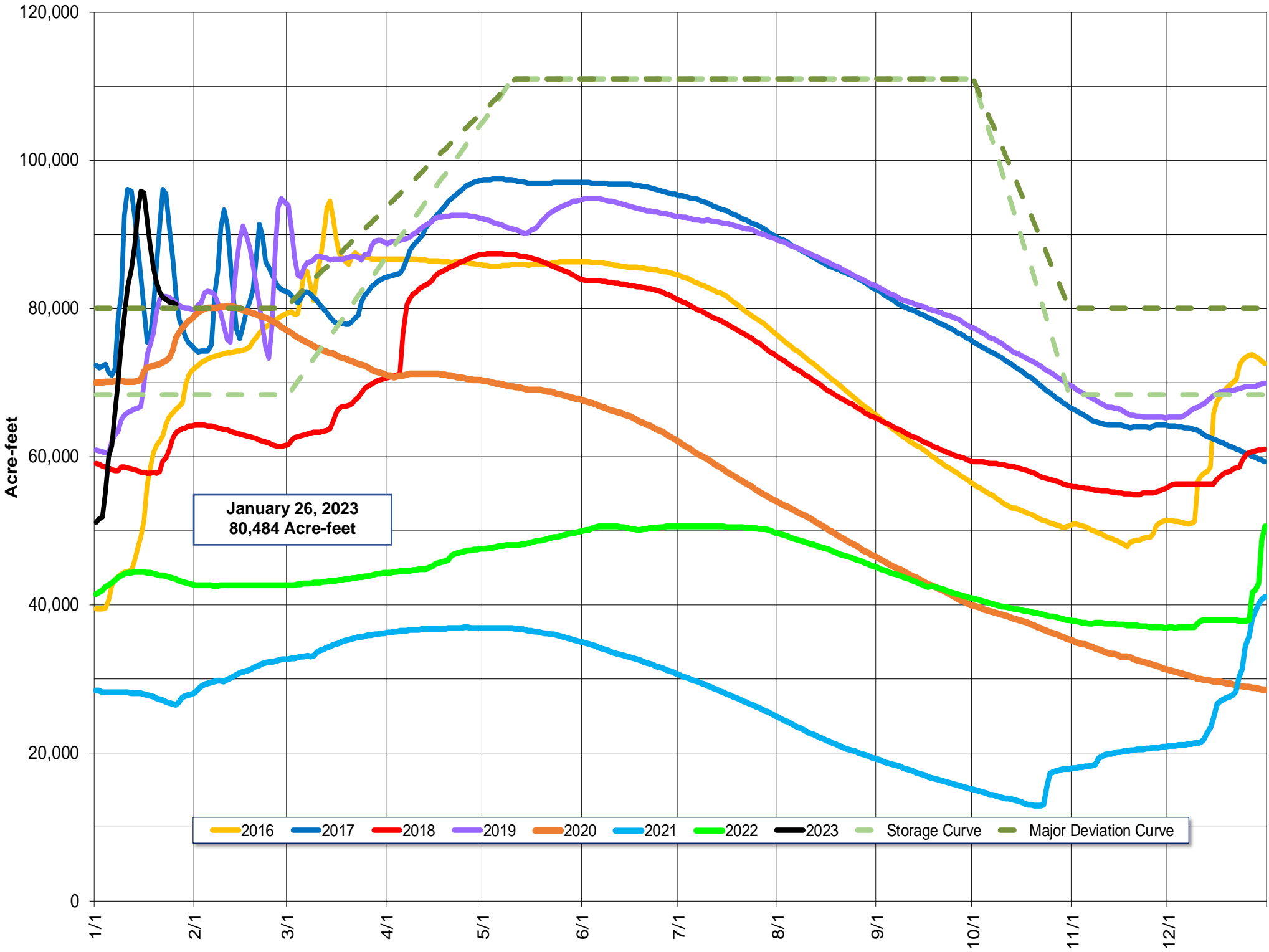
Instream Flow Requirements as of January 26, 2023

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



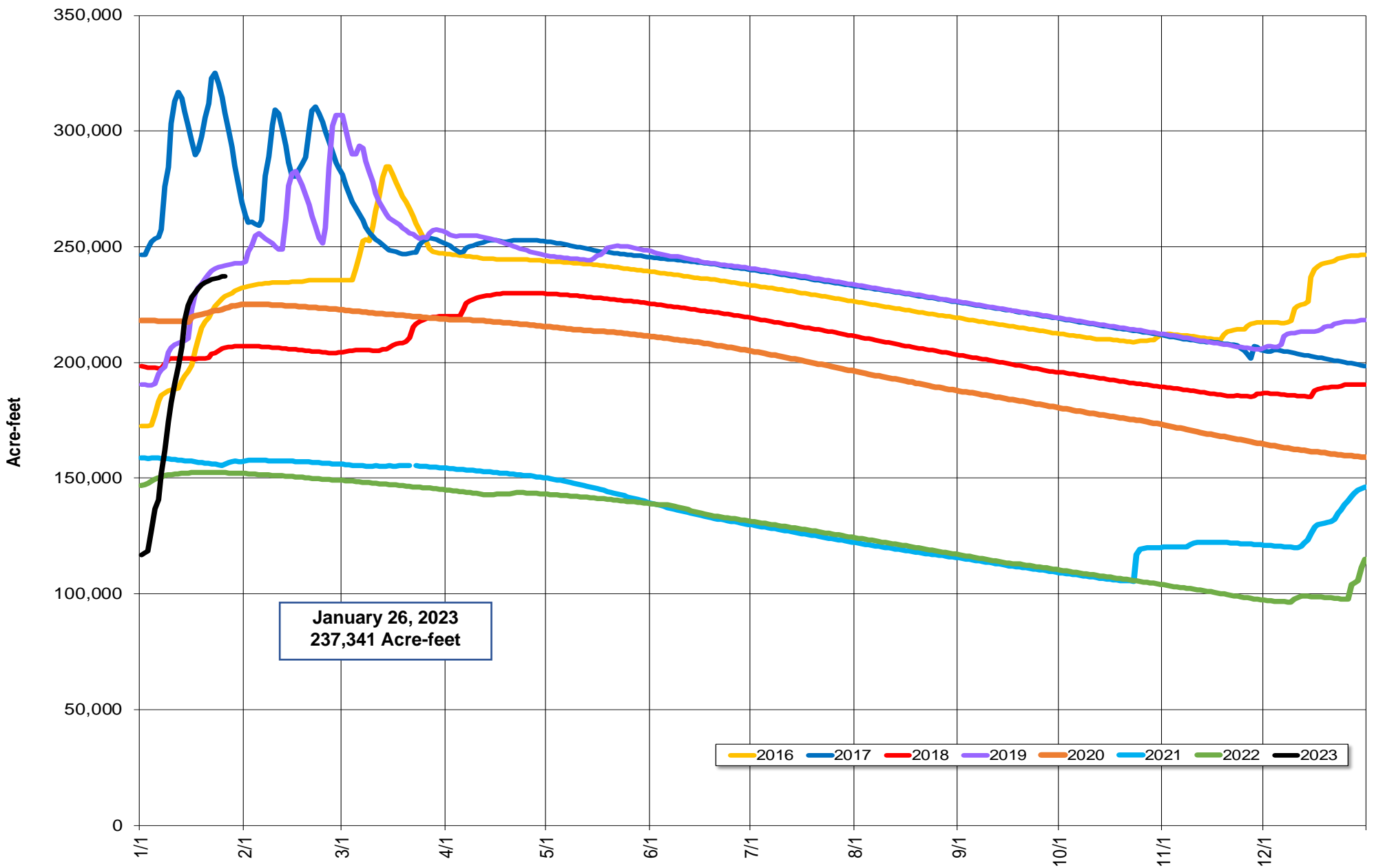
Storage (acre-feet)	January 26, 2023	80,484	
Change in Storage (acre-feet)	Last 30 days	38,803	1,293
	Last 7 days	-3,082	-440
Daily Inflow (cfs)	Last 7 days	Min	105
		Max	260
		Mean	189
Release (cfs)	Last 7 days	Min	282
		Max	1,084
		Mean	547

Lake Sonoma



Nathan Baskett, March 3, 2011

Lake Sonoma Storage 2016-2023



Storage (acre-feet)	January 26, 2023	237,341	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	133,410	4,447
	Last 7 days	2,932	419
Daily Inflow (cfs)	Last 7 days	Min	228
		Max	572
		Mean	376
Release (cfs)	Last 7 days	Min	92
		Max	93
		Mean	92

Potter Valley Project

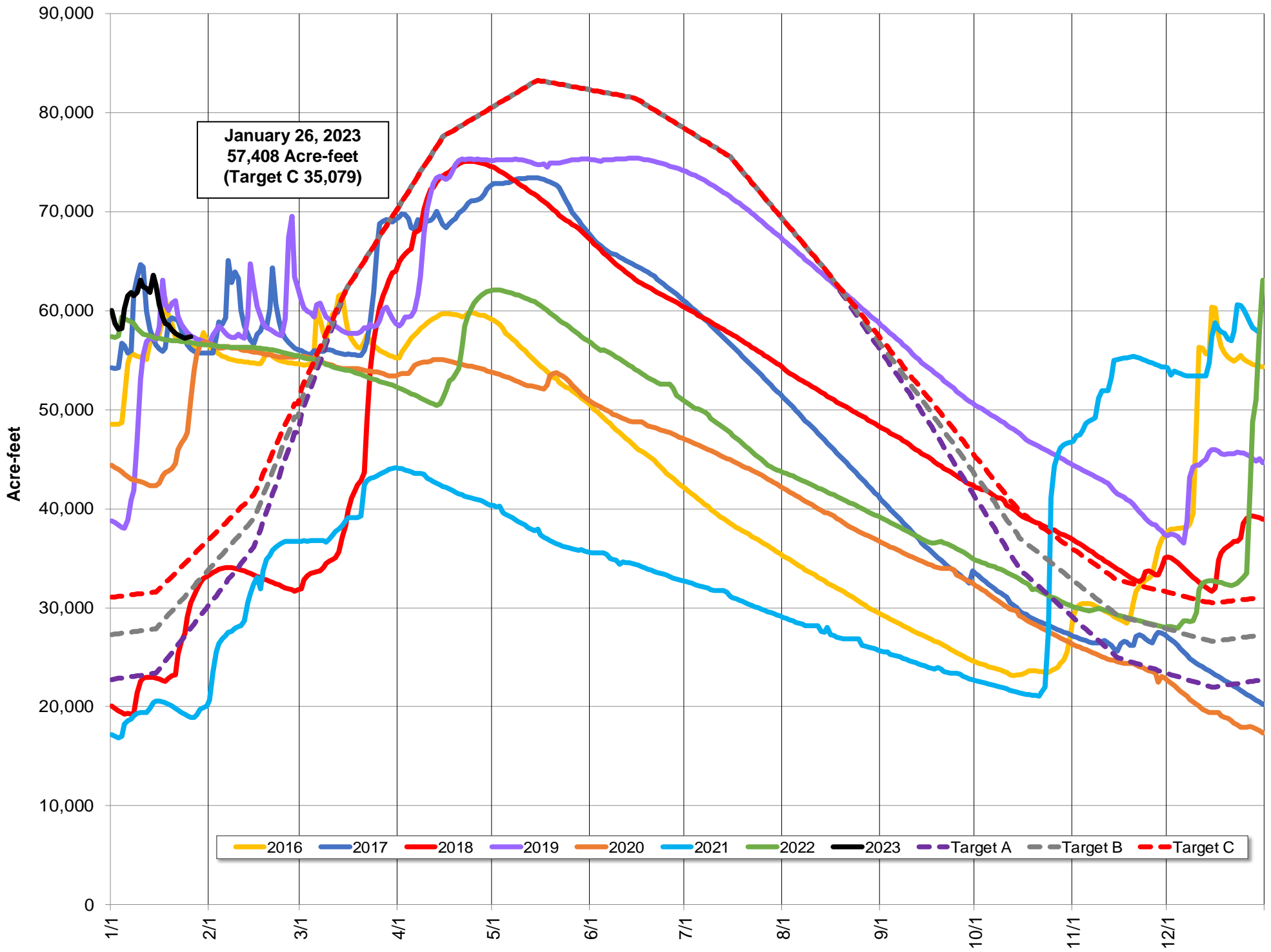
PVP Diversion (cfs)	January 26, 2023	45
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Lake Pillsbury

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2022 - January 26, 2023	263,655	2,234
	Last 7 days	11,482	1,640

*Inflow calculation based on criteria established in D1610

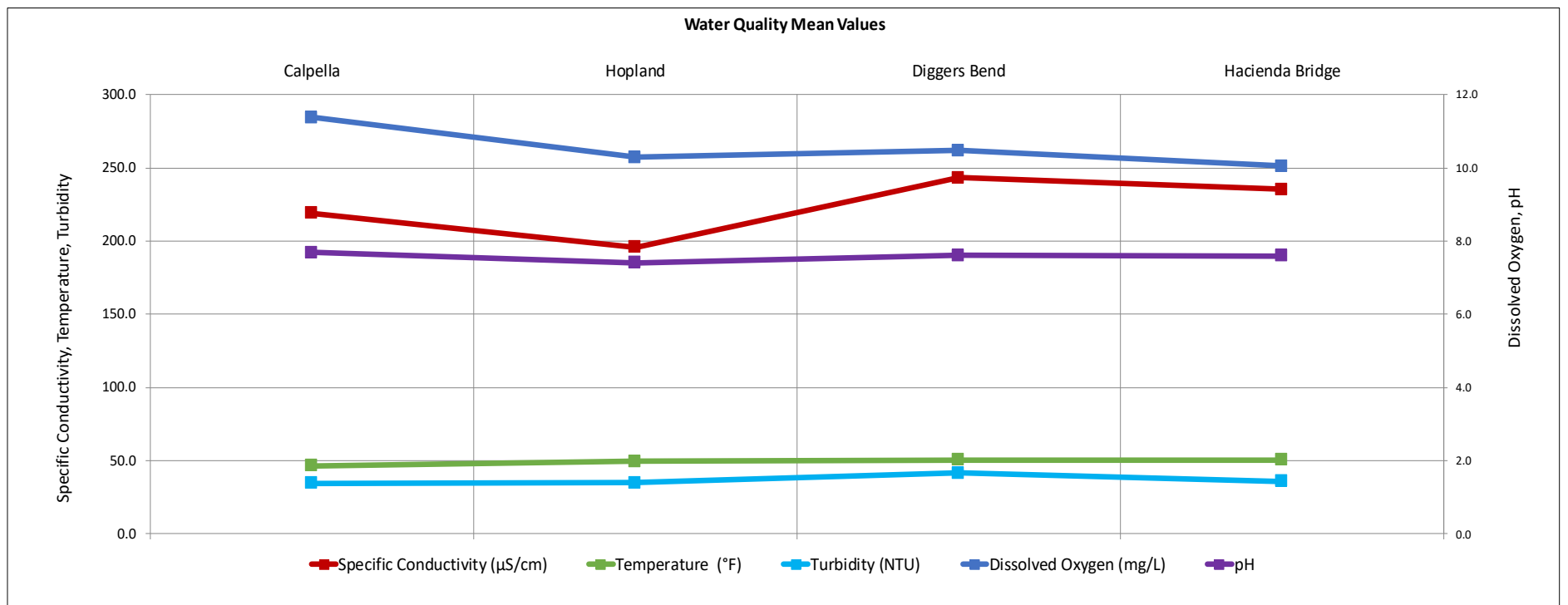
Lake Pillsbury Storage 2016 - 2023 and Target Storage Scenarios



Russian River Flows (January 20, 2023 - January 26, 2023)

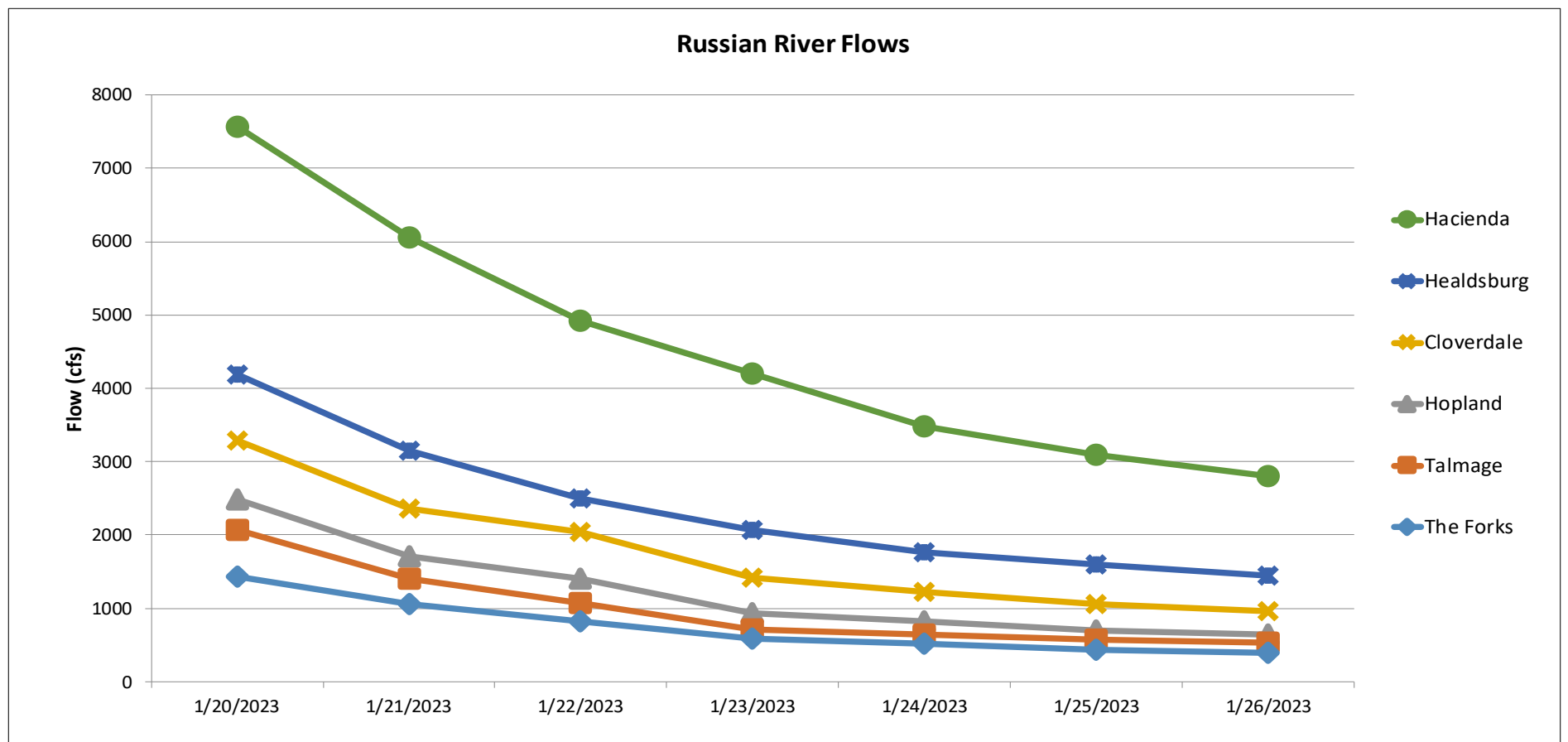
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	44.1	48.0		48.2	48.0		48.6	
	Max	48.7	50.9		53.1	52.7		52.5	
	Mean	46.4	49.5		50.5	50.3		50.3	
Specific Conductivity (µS/cm)	Min	154.0	161.0			193.0		198.0	
	Max	236.0	210.0			276.0		264.0	
	Mean	219.0	195.6			243.3		235.3	
Dissolved Oxygen (mg/L)	Min	10.5	9.8			9.8		9.9	
	Max	11.8	10.9			10.8		10.3	
	Mean	11.4	10.3			10.5		10.1	
Dissolved Oxygen (% Saturation)	Min	90.2	87.2			89.7		87.9	
	Max	99.9	95.2			95.4		91.3	
	Mean	96.2	90.5			93.1		89.4	
pH	Min	7.3	7.3			7.6		7.5	
	Max	7.8	7.6			7.6		7.6	
	Mean	7.7	7.4			7.6		7.6	
Turbidity (NTU)	Min	27.7	21.8			25.6		22.6	
	Max	71.8	54.3			63.6		54.4	
	Mean	34.5	34.7			41.5		36.0	

*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	Jan 20, 2023	Jan 21, 2023	Jan 22, 2023	Jan 23, 2023	Jan 24, 2023	Jan 25, 2023	Jan 26, 2023
The Forks*	1433	1060	817	582	520	433	400
Talmage USGS 11462080	2068	1407	1071	708	636	576	538
Hopland USGS 11462500	2486	1703	1398	935	817	703	647
Cloverdale USGS 11463000	3287	2358	2043	1422	1227	1061	960
Healdsburg USGS 11464000	4189	3152	2491	2073	1762	1591	1448
Hacienda USGS 11467000	7562	6060	4917	4200	3478	3090	2806

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

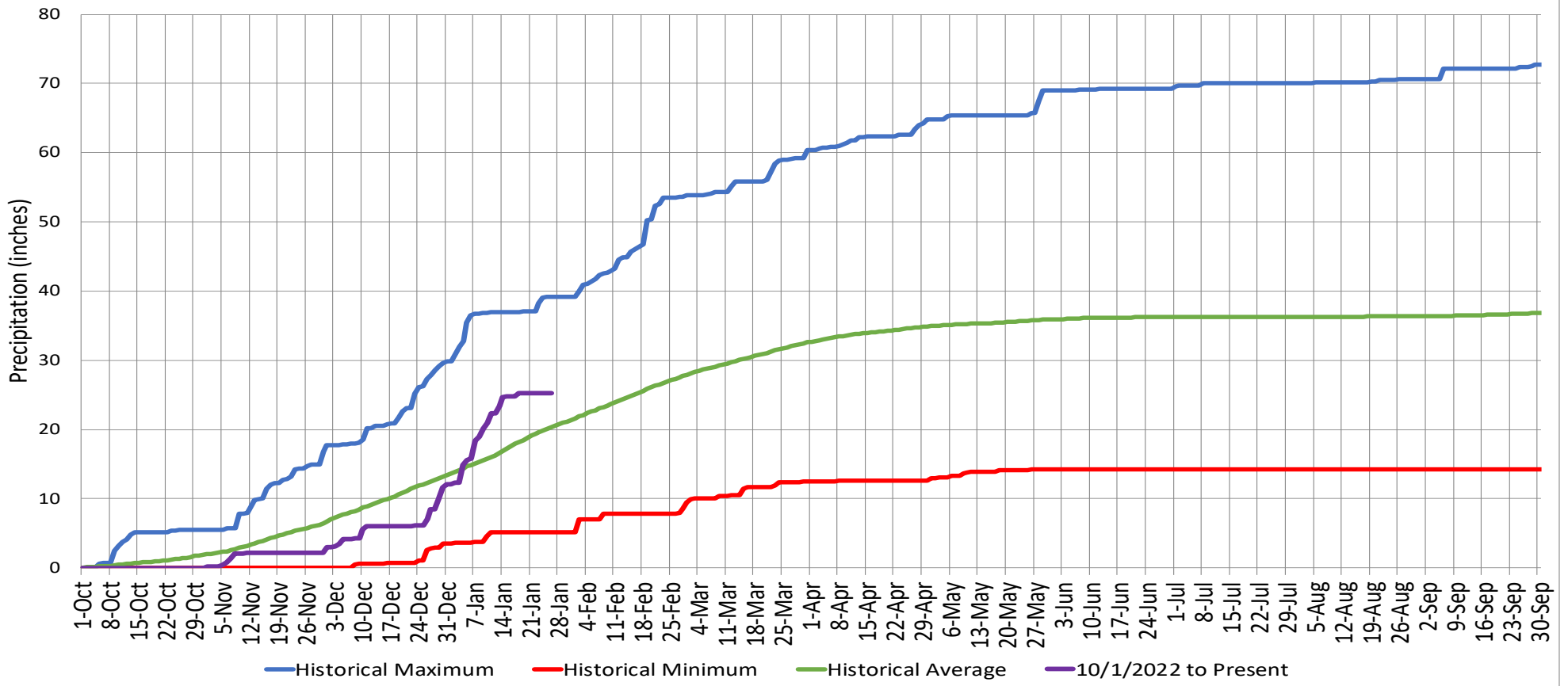


Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

Date Range	Cumulative (inches)
Oct 1, 2022 - Jan 26, 2023	25.2
Last 7 Days*	0.00

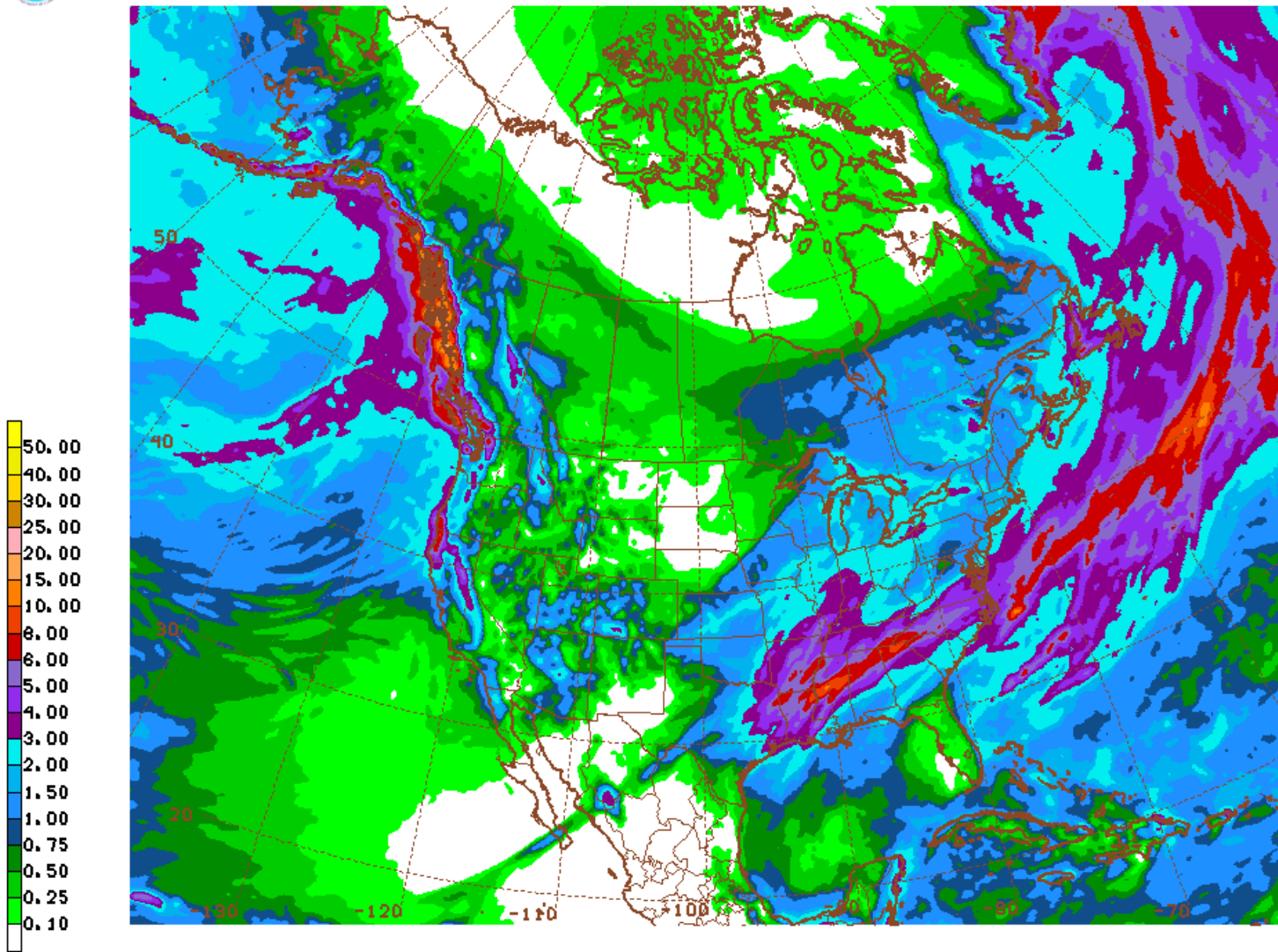
Cumulative Precipitation Comparison of Current Year versus Historic Record



Global Forecast System Model 16-day Cumulative Precipitation Forecast



GFS 01/30/23 12UTC 384HR FCST VALID MED 02/15/23 12UTC NOAA/NWS/NCEP



GFS MED 230215/1200Y384 384HR ACCUMULATED PRECIP (IN)

Date Range	Forecasted Cumulative (inches)
Jan 30 - Feb 15, 2023	1.90