



**State Water Resources Control Board
 Temporary Urgency Change Order (12/14/2022)
 Russian River Hydrologic Report
 December 30, 2022 - January 5, 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).

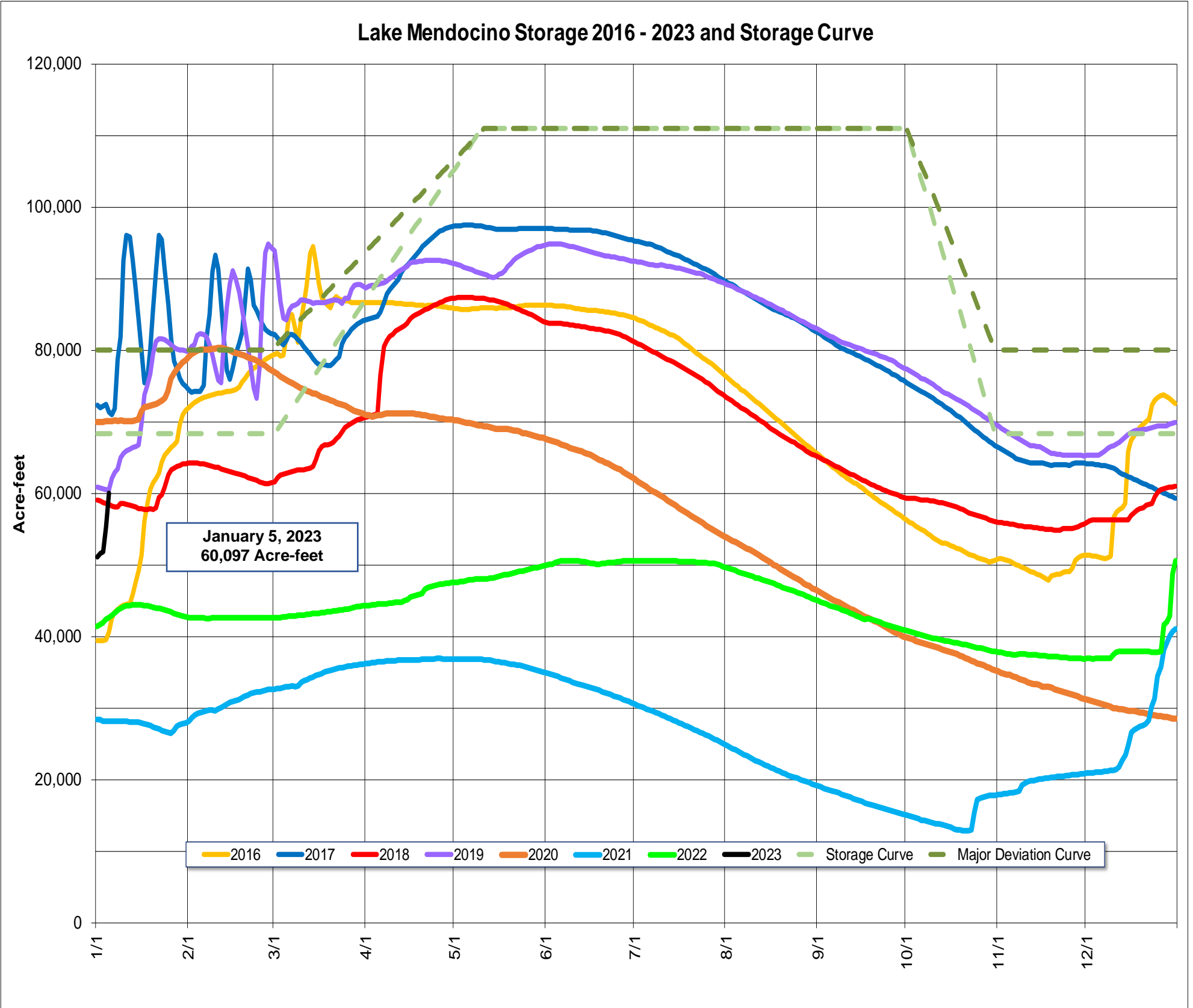
Instream Flow Requirements as of January 5, 2023

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



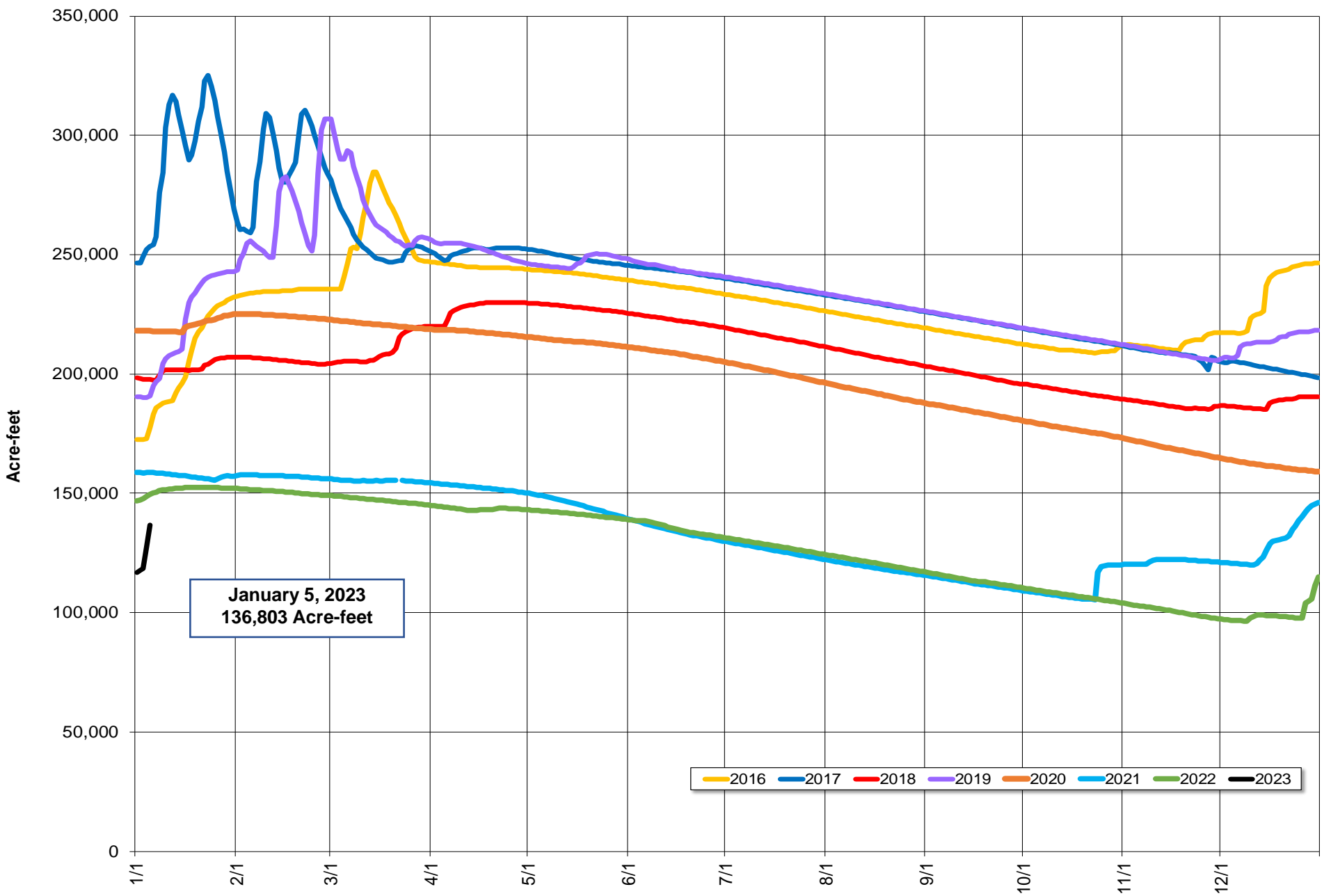
Storage (acre-feet)	January 5, 2023	60,097	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	23,070	769
	Last 7 days	11,271	1,610
Daily Inflow (cfs)	Last 7 days	Min	174
		Max	3,035
		Mean	1,270
Release (cfs)	Last 7 days	Min	27
		Max	27
		Mean	27

Lake Sonoma



Nathan Baskett, March 3, 2011

Lake Sonoma Storage 2016-2023



Storage (acre-feet)	January 5, 2023	136,803	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	40,028	1,334
	Last 7 days	25,551	3,650
Daily Inflow (cfs)	Last 7 days	Min	415
		Max	4,811
		Mean	2,333
Release (cfs)	Last 7 days	Min	81
		Max	116
		Mean	83

Potter Valley Project

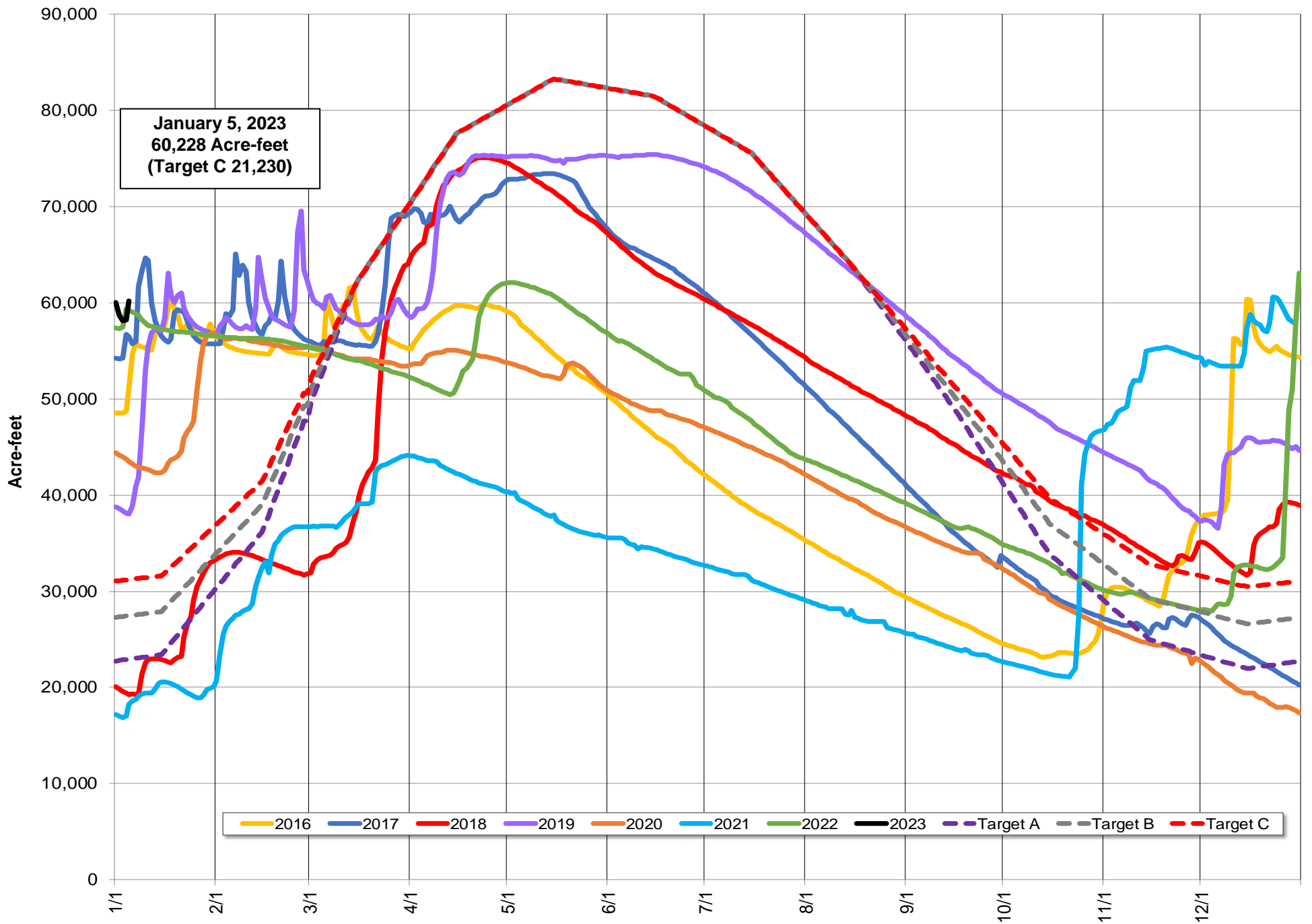
PVP Diversion (cfs)	January 5, 2023	45
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Lake Pillsbury

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2022 - January 5, 2023	91,417	942
	Last 7 days	41,229	5,890

*Inflow calculation based on criteria established in D1610

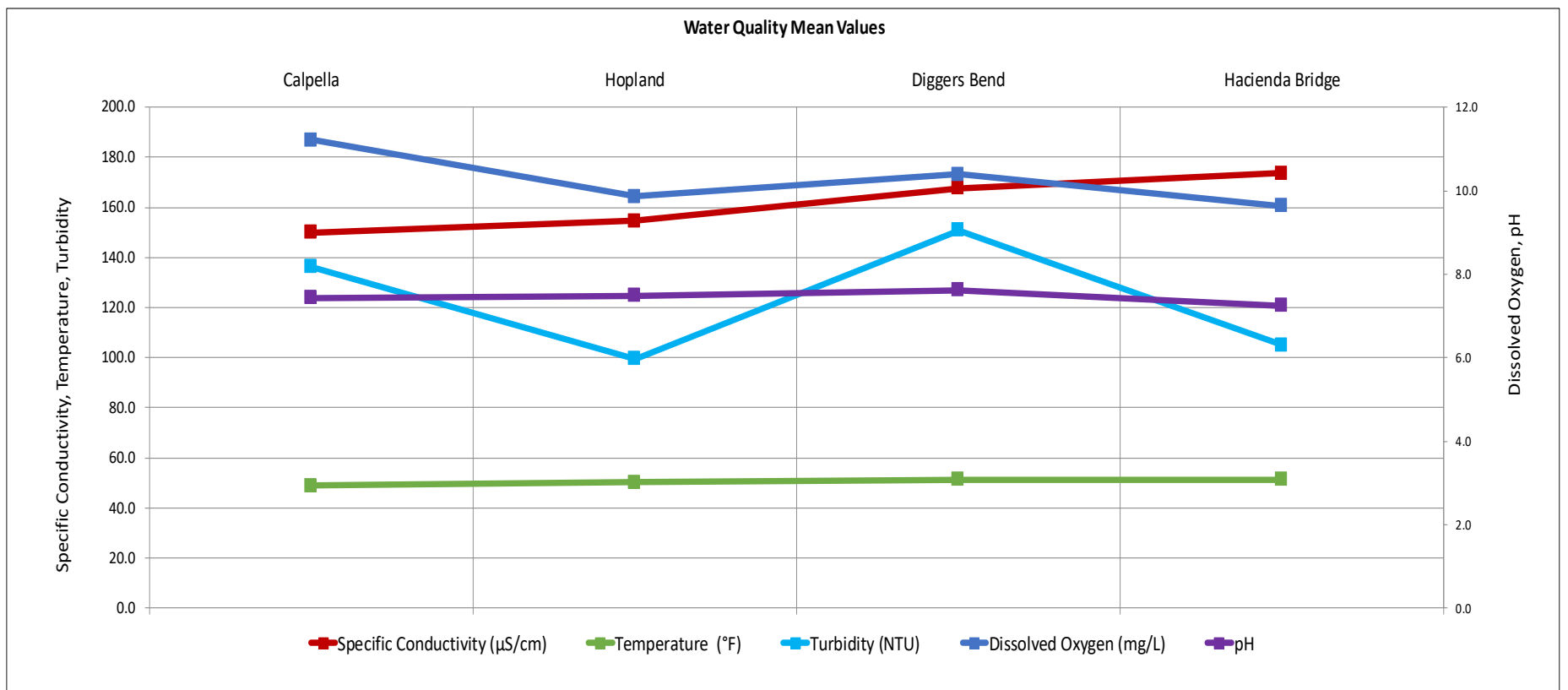
Lake Pillsbury Storage 2016 - 2023 and Target Storage Scenarios



Russian River Water Quality (December 30, 2022 - January 5, 2023)

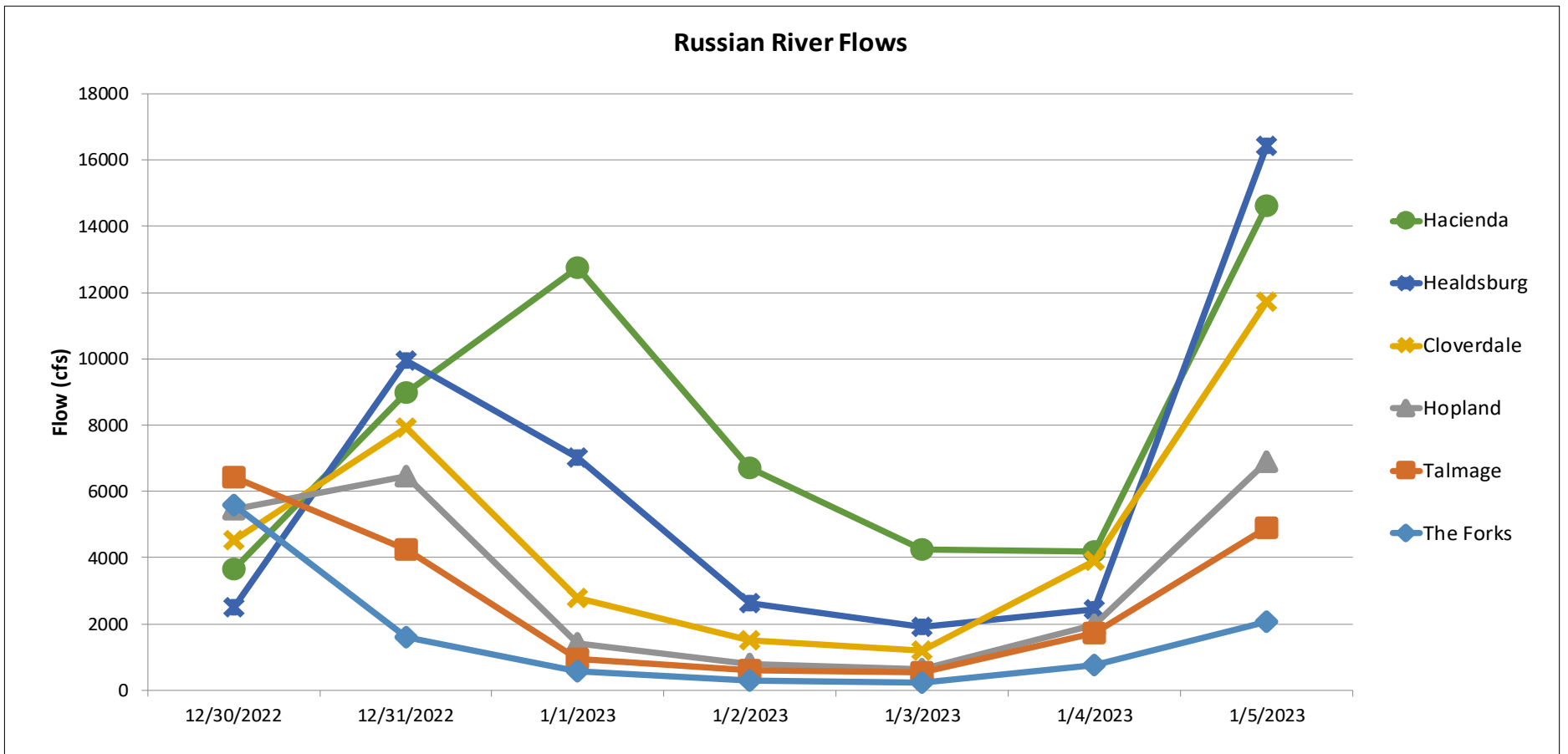
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	45.7	48.0		48.9	49.1		49.5	
	Max	52.9	53.2		53.6	53.6		53.4	
	Mean	49.0	50.3		51.0	51.2		51.4	
Specific Conductivity (µS/cm)	Min	65.0	87.0			102.0		115.0	
	Max	213.0	218.0			229.0		222.0	
	Mean	150.0	154.7			167.7		173.6	
Dissolved Oxygen (mg/L)	Min	8.0	8.4			10.0		9.0	
	Max	11.8	10.6			10.6		10.3	
	Mean	11.2	9.9			10.4		9.6	
Dissolved Oxygen (% Saturation)	Min	70.9	76.5			91.2		80.5	
	Max	101.2	95.0			96.5		92.7	
	Mean	98.0	87.7			93.4		87.0	
pH	Min	7.1	7.3			7.4		7.2	
	Max	7.6	7.7			7.8		7.3	
	Mean	7.4	7.5			7.6		7.2	
Turbidity (NTU)	Min	23.6	13.4			14.3		17.2	
	Max	1820.0	500.0			858.0		589.0	
	Mean	136.3	99.6			150.9		105.0	

*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	Dec 30, 2022	Dec 31, 2022	Jan 1, 2023	Jan 2, 2023	Jan 3, 2023	Jan 4, 2023	Jan 5, 2023
The Forks*	5599	1590	557	307	238	758	2072
Talmage USGS 11462080	6416	4243	953	611	526	1725	4915
Hopland USGS 11462500	5476	6469	1402	783	635	1971	6910
Cloverdale USGS 11463000	4537	7931	2771	1515	1202	3900	11731
Healdsburg USGS 11464000	2503	9936	7023	2638	1928	2450	16425
Hacienda USGS 11467000	3644	8980	12756	6703	4249	4184	14613

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

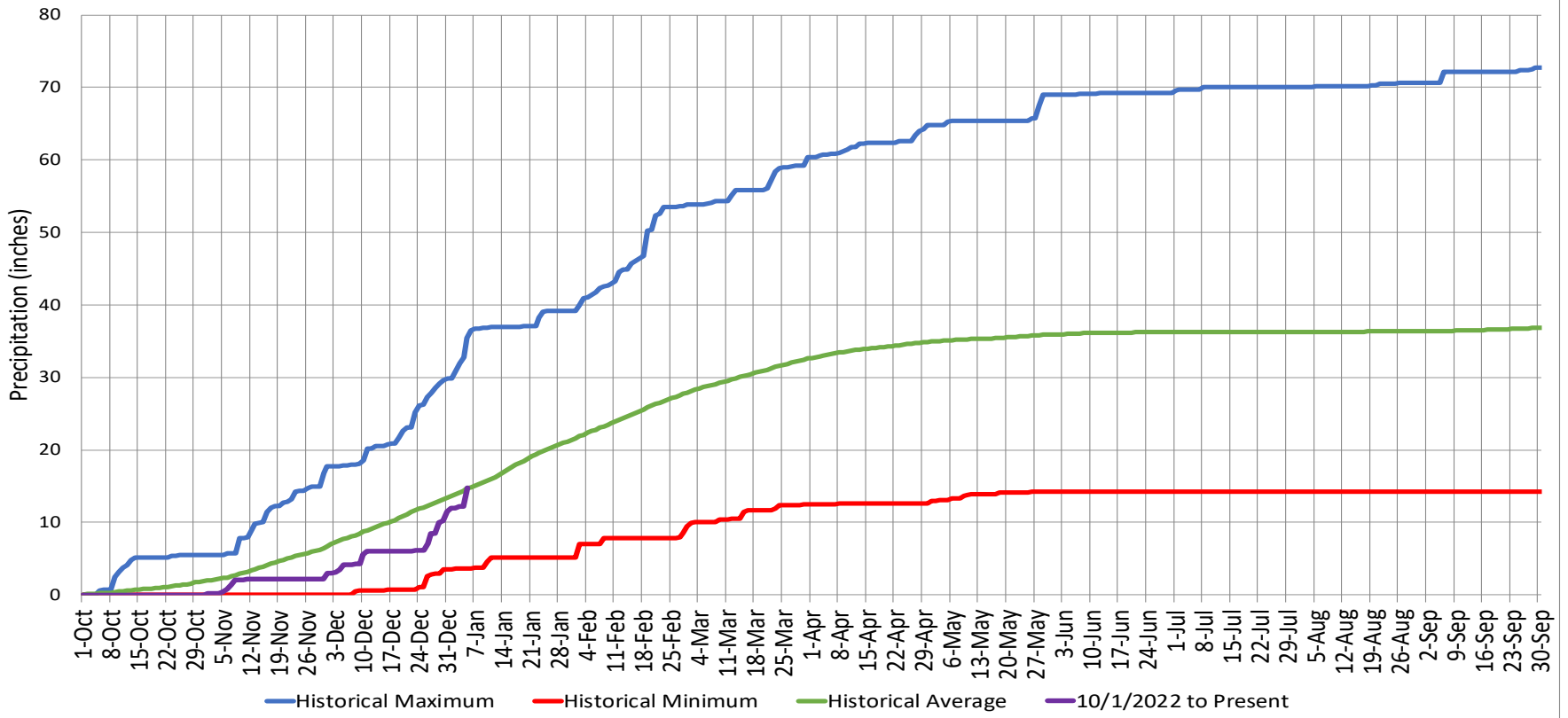


Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

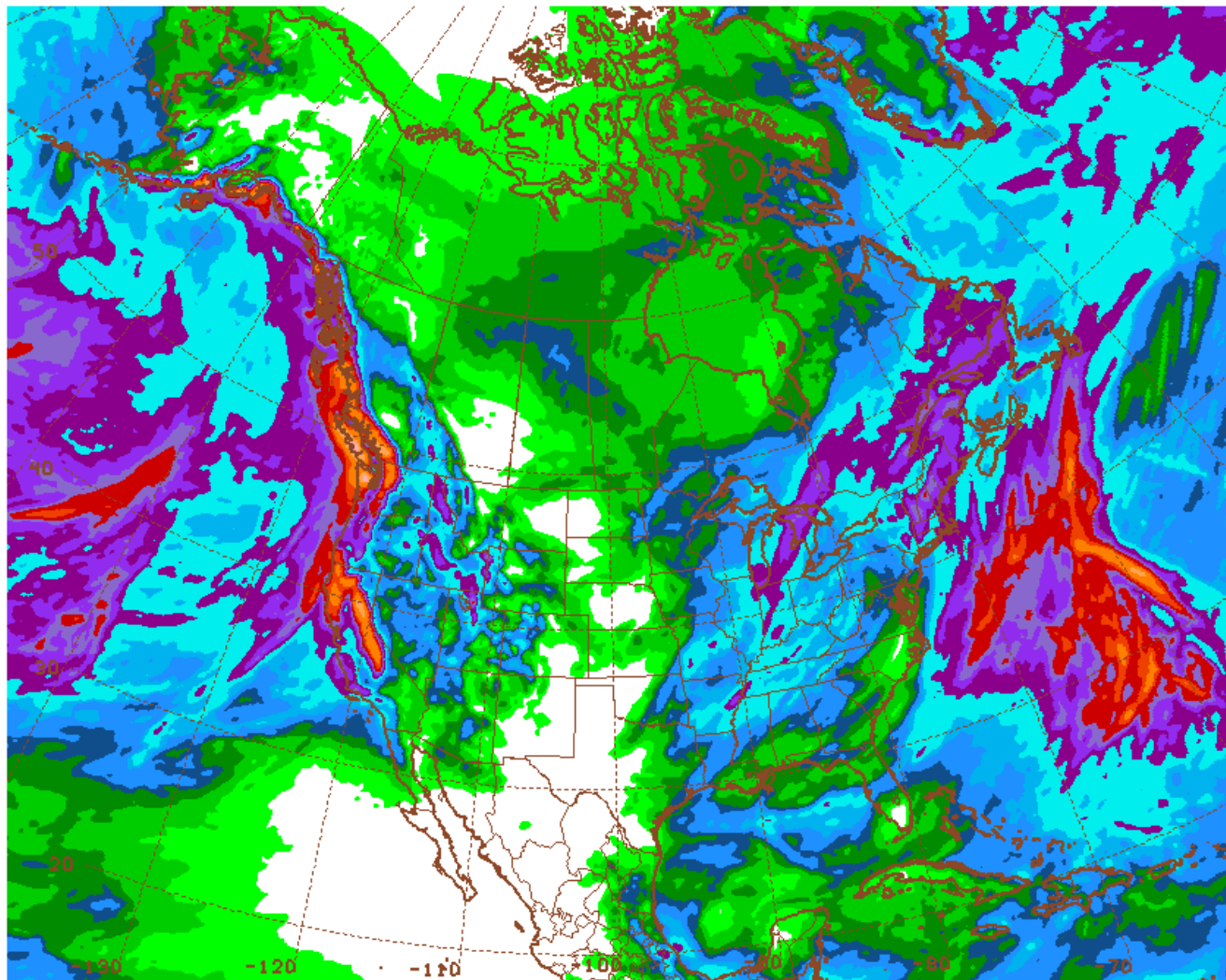
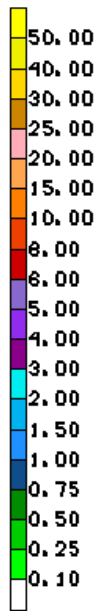
Date Range	Cumulative (inches)
Oct 1, 2022 - Jan 5, 2023	14.73
Last 7 Days*	4.72

Cumulative Precipitation Comparison of Current Year versus Historic Record



Global Forecast System Model 16-day Cumulative Precipitation Forecast

GFS 01/09/23 12UTC 384HR FCST VALID MED 01/25/23 12UTC NOAA/NWS/NCEP



GFS MED 230125/1200V384 384HR ACCUMULATED PRECIP (IN)

Date Range
Jan 9 - Jan 25, 2023

Forecasted Cumulative (inches)
8.22