



**State Water Resources Control Board
 Temporary Urgency Change Order (12/14/2022)
 Russian River Hydrologic Report
 January 13, 2023 - January 19, 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).

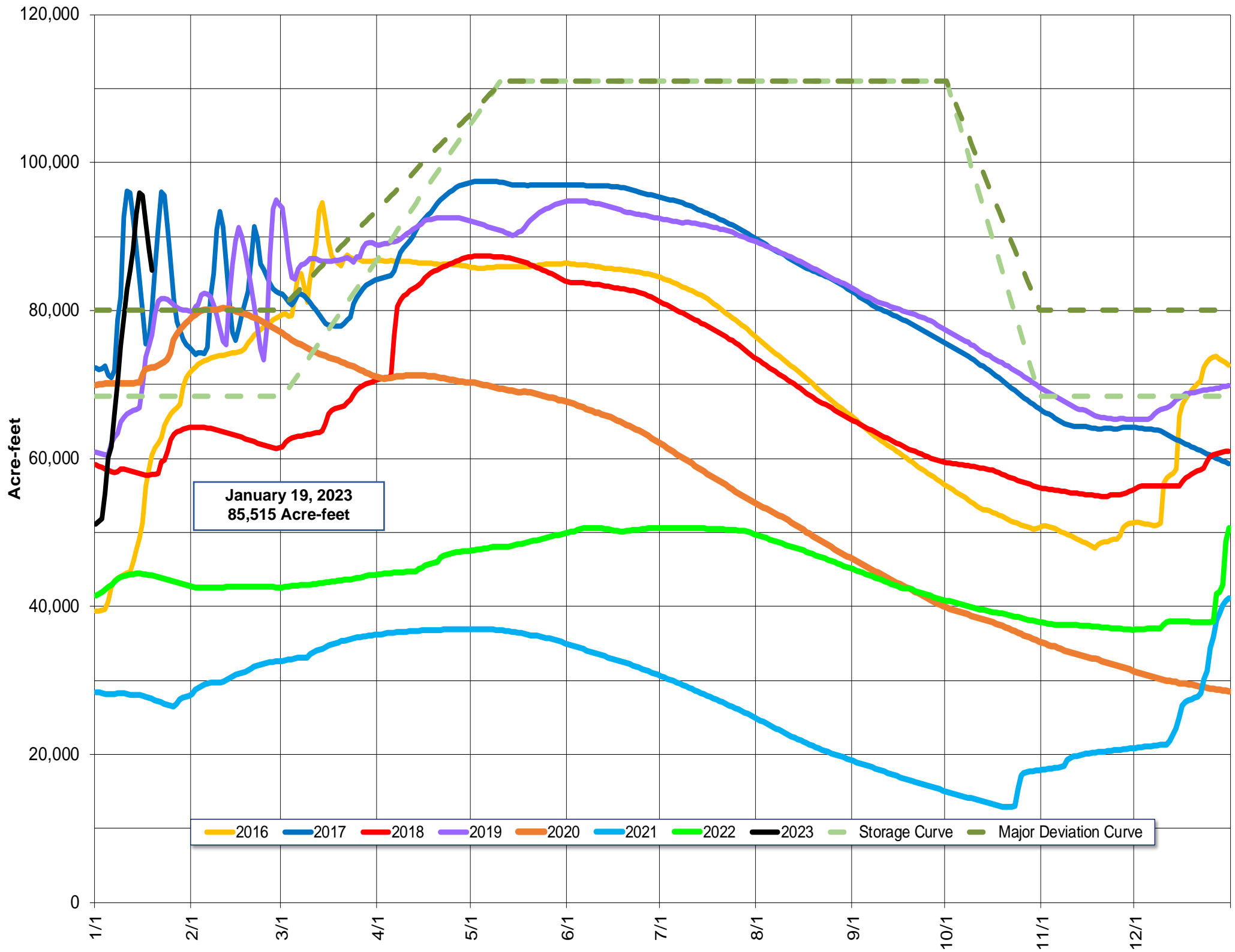
Instream Flow Requirements as of January 19, 2023

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



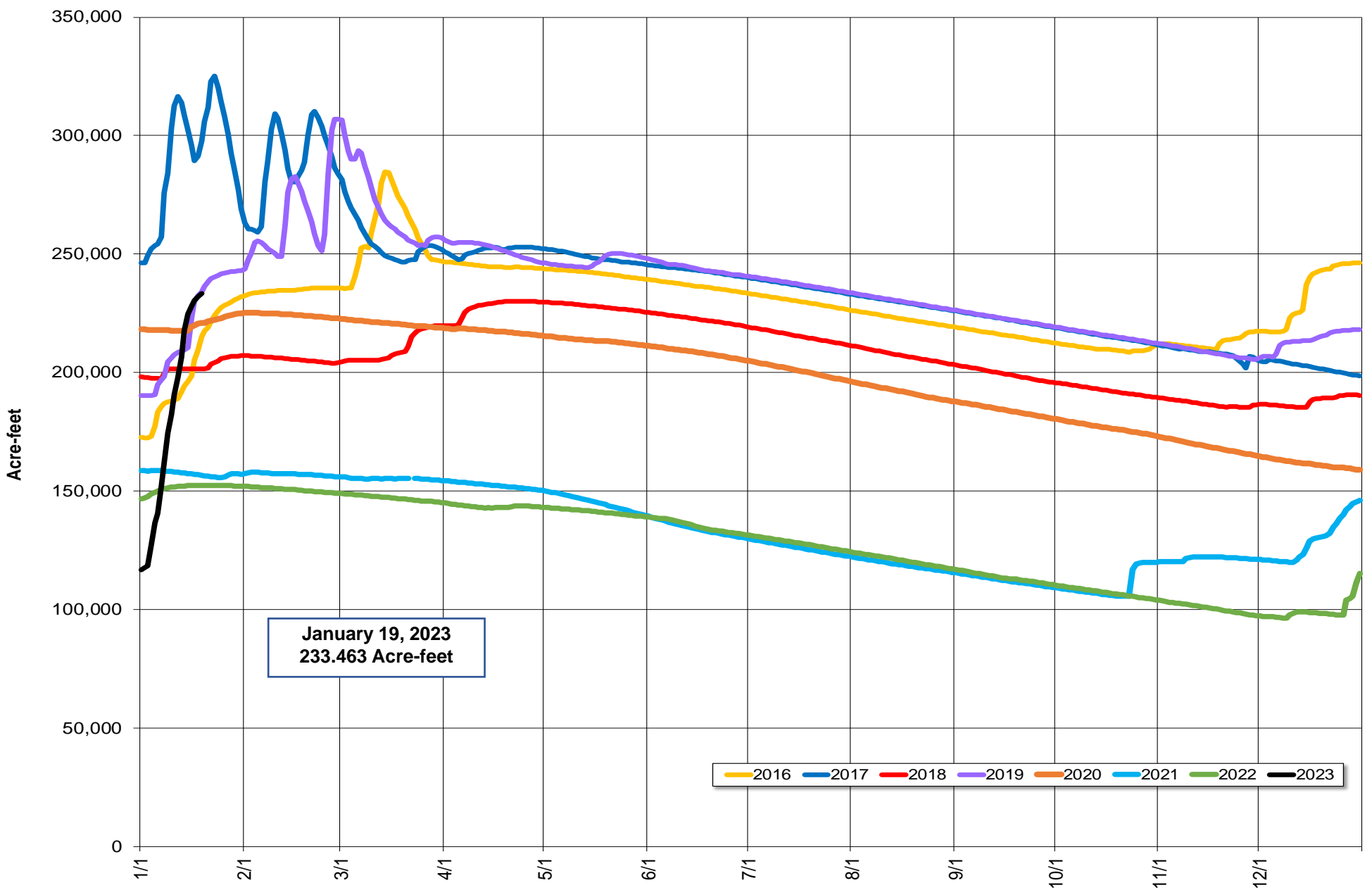
Storage (acre-feet)	January 19, 2023	85,515	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	47,605	1,587
	Last 7 days	-2,832	-405
Daily Inflow (cfs)	Last 7 days	Min	267
		Max	2,388
		Mean	1,199
Release (cfs)	Last 7 days	Min	27
		Max	2,928
		Mean	1,185

Lake Sonoma



Nathan Baskett, March 3, 2011

Lake Sonoma Storage 2016-2023

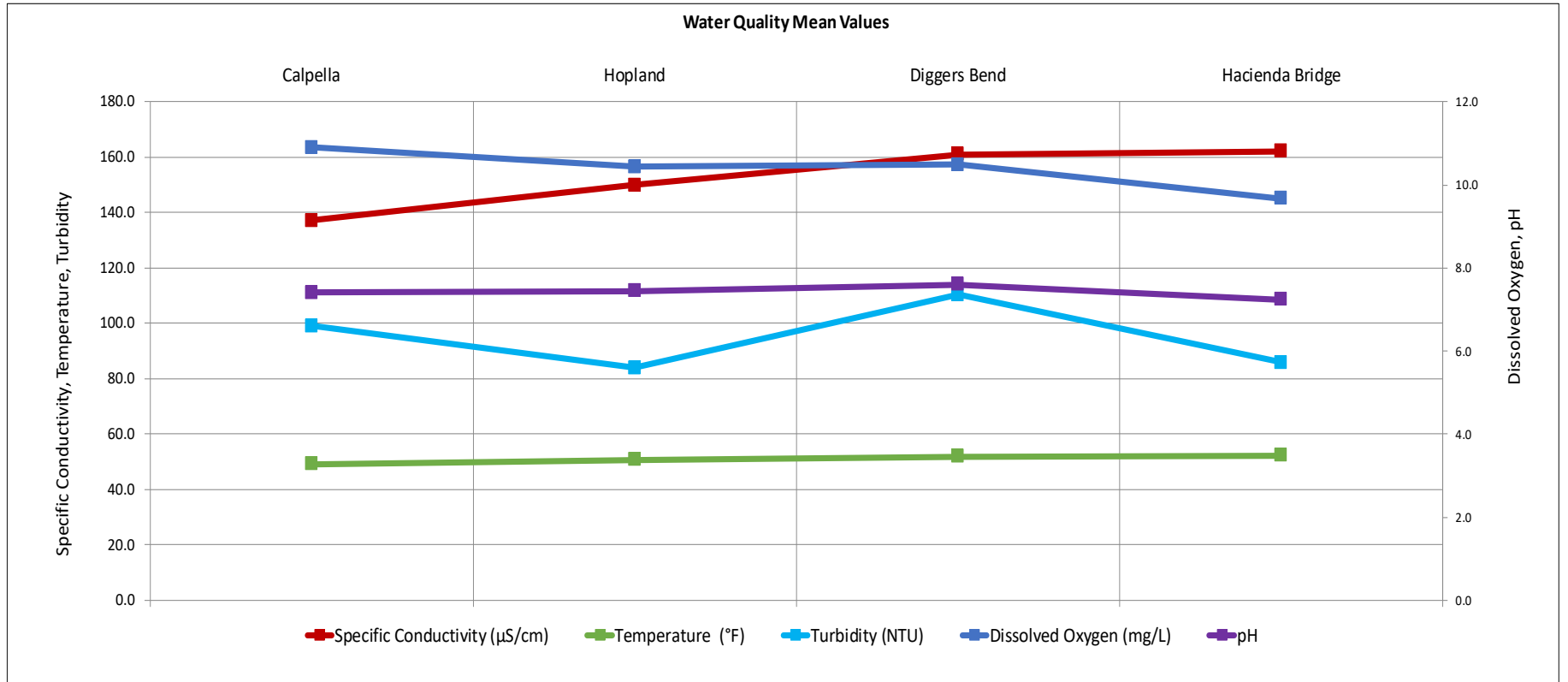


Storage (acre-feet)	January 19, 2023	233,463	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	135,114	4,504
	Last 7 days	26,852	3,836
Daily Inflow (cfs)	Last 7 days	Min	802
		Max	5,796
		Mean	2,649
Release (cfs)	Last 7 days	Min	92
		Max	112
		Mean	93

Russian River Flows (January 13, 2023 - January 19, 2023)

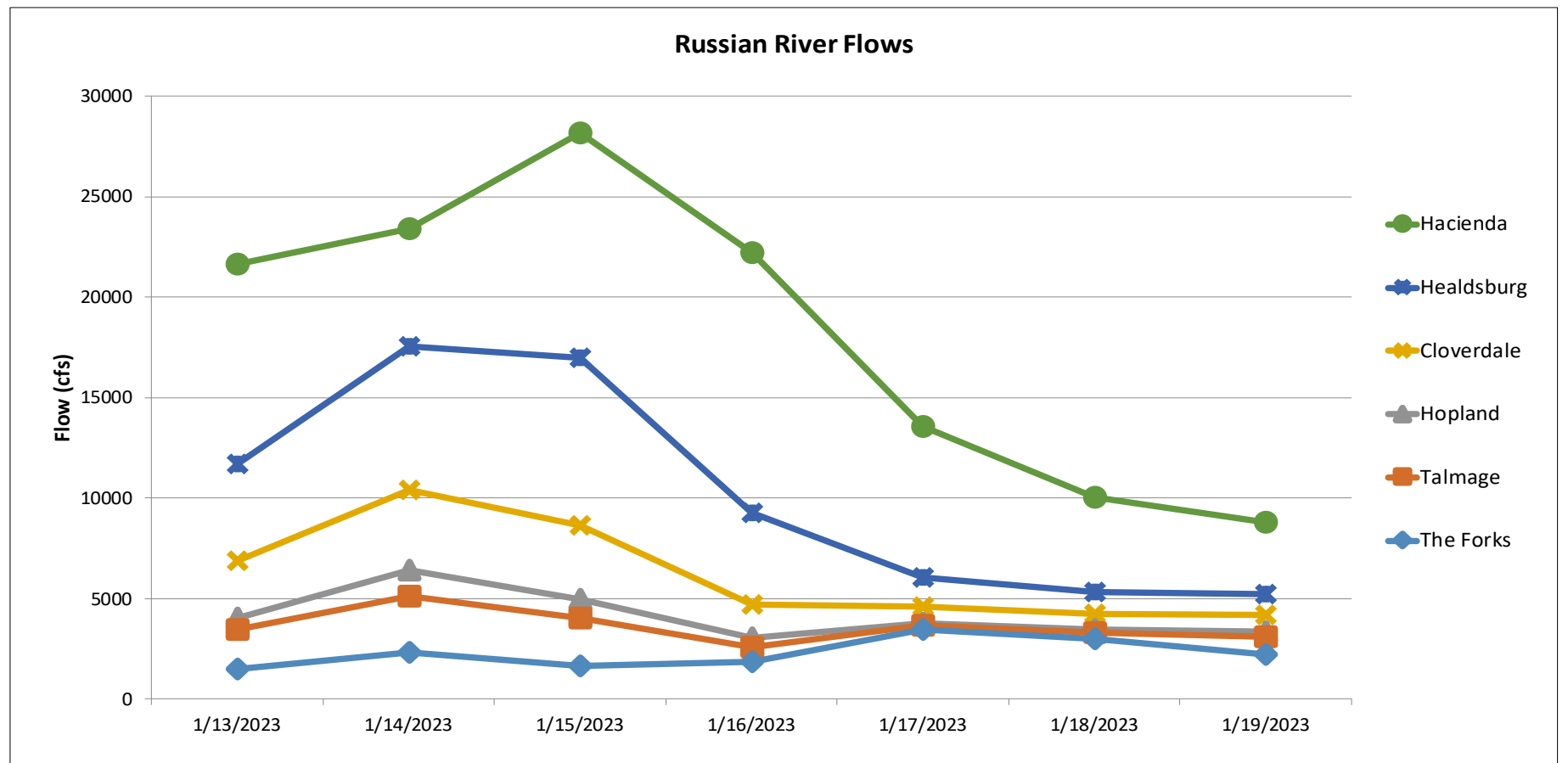
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	45.5	48.6		49.1	49.1		49.6	
	Max	52.5	53.2		54.0	54.1		54.3	
	Mean	49.2	50.8		51.8	51.9		52.3	
Specific Conductivity (µS/cm)	Min	100.0	112.0			115.0		122.0	
	Max	157.0	181.0			198.0		202.0	
	Mean	137.2	149.9			161.0		162.2	
Dissolved Oxygen (mg/L)	Min	10.2	9.8			10.1		9.2	
	Max	11.7	11.1			11.0		10.2	
	Mean	10.9	10.4			10.5		9.7	
Dissolved Oxygen (% Saturation)	Min	89.9	88.9			92.9		83.2	
	Max	100.6	97.0			96.9		92.5	
	Mean	97.2	93.4			95.2		88.3	
pH	Min	7.2	7.2			7.5		7.1	
	Max	7.6	7.6			7.7		7.6	
	Mean	7.4	7.4			7.6		7.2	
Turbidity (NTU)	Min	14.1	41.9			54.5		46.3	
	Max	1980.0	308.0			329.0		228.0	
	Mean	99.0	83.8			110.4		85.9	

*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	Jan 13, 2023	Jan 14, 2023	Jan 15, 2023	Jan 16, 2023	Jan 17, 2023	Jan 18, 2023	Jan 19, 2023
The Forks*	1478	2310	1636	1849	3479	2972	2221
Talmage USGS 11462080	3468	5146	4046	2596	3666	3310	3077
Hopland USGS 11462500	4051	6420	4943	3069	3758	3438	3340
Cloverdale USGS 11463000	6865	10390	8651	4710	4599	4223	4194
Healdsburg USGS 11464000	11686	17529	16988	9268	6040	5313	5208
Hacienda USGS 11467000	21658	23393	28169	22203	13543	10049	8775

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

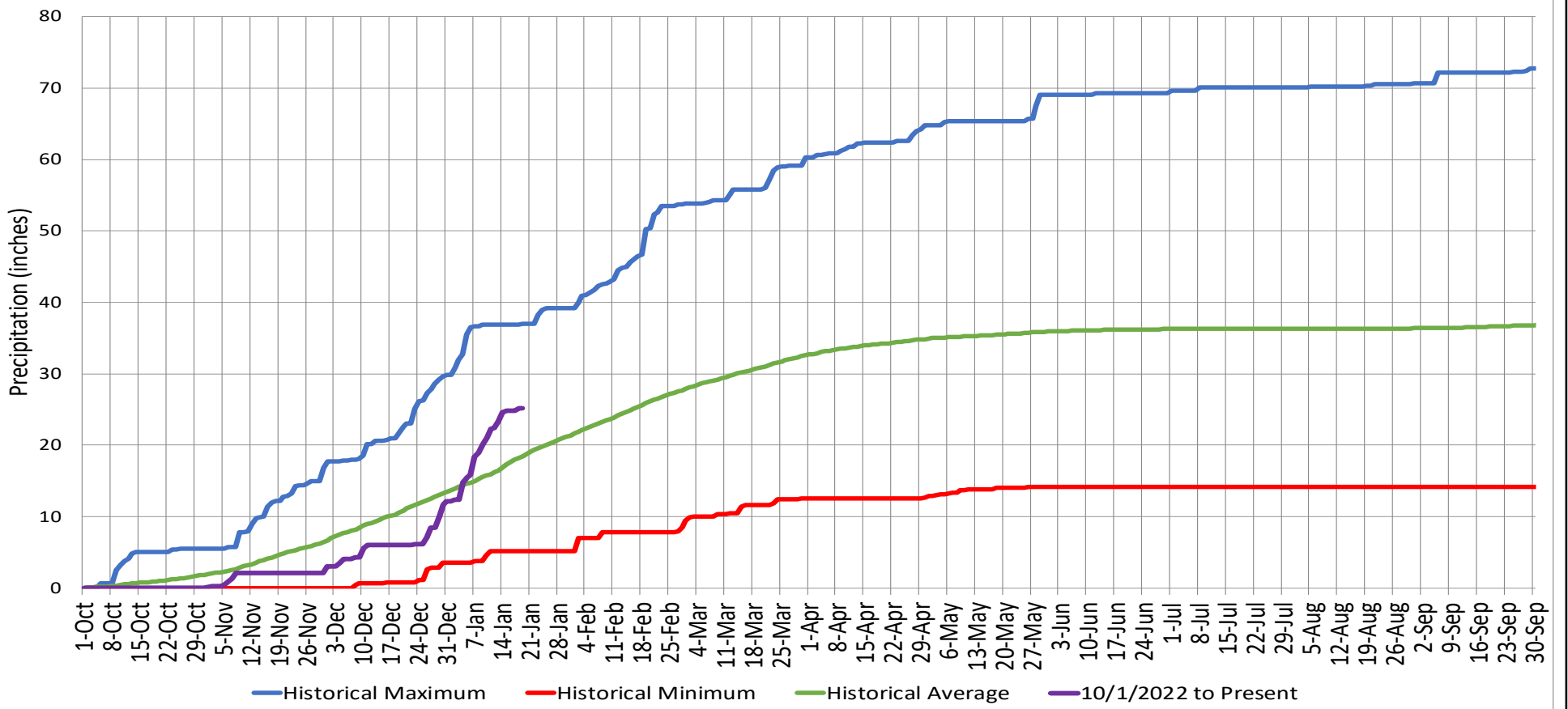


Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

Date Range	Cumulative (inches)
Oct 1, 2022 - Jan 19, 2023	25.2
Last 7 Days*	2.83

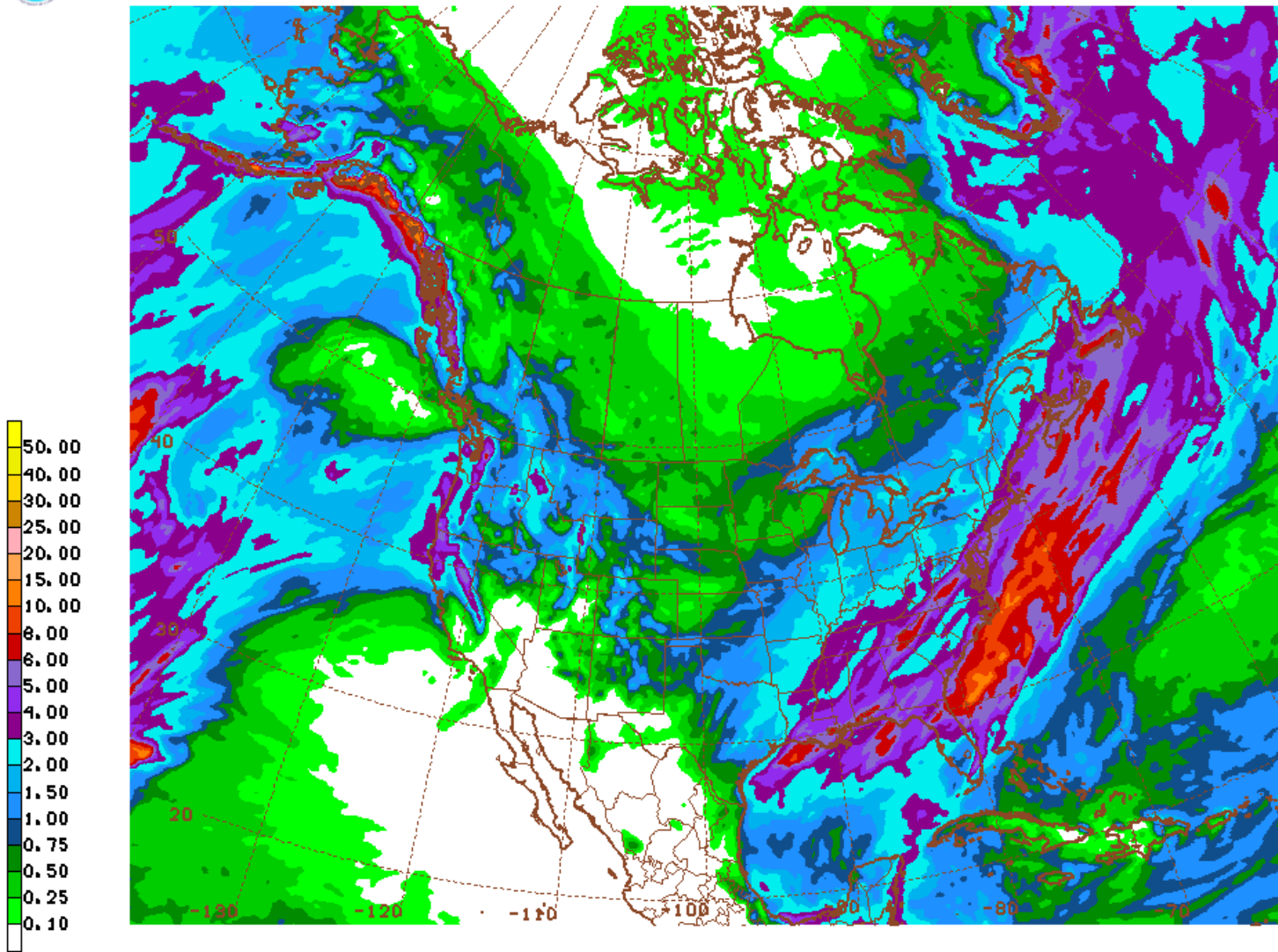
Cumulative Precipitation Comparison of Current Year versus Historic Record



Global Forecast System Model 16-day Cumulative Precipitation Forecast



GFS 01/23/23 12UTC 384HR FCST VALID MED 02/08/23 12UTC NOAA/NWS/NCEP



GFS MED 230208/1200Y384 384HR ACCUMULATED PRECIP (IN)

Date Range	Forecasted Cumulative (inches)
Jan 23 - Feb 8, 2023	2.98