



State Water Resources Control Board
 Temporary Urgency Change Orders (10/31/2024)
 Russian River Hydrologic & Water Quality Report
 January 17, 2025 - January 23, 2025

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

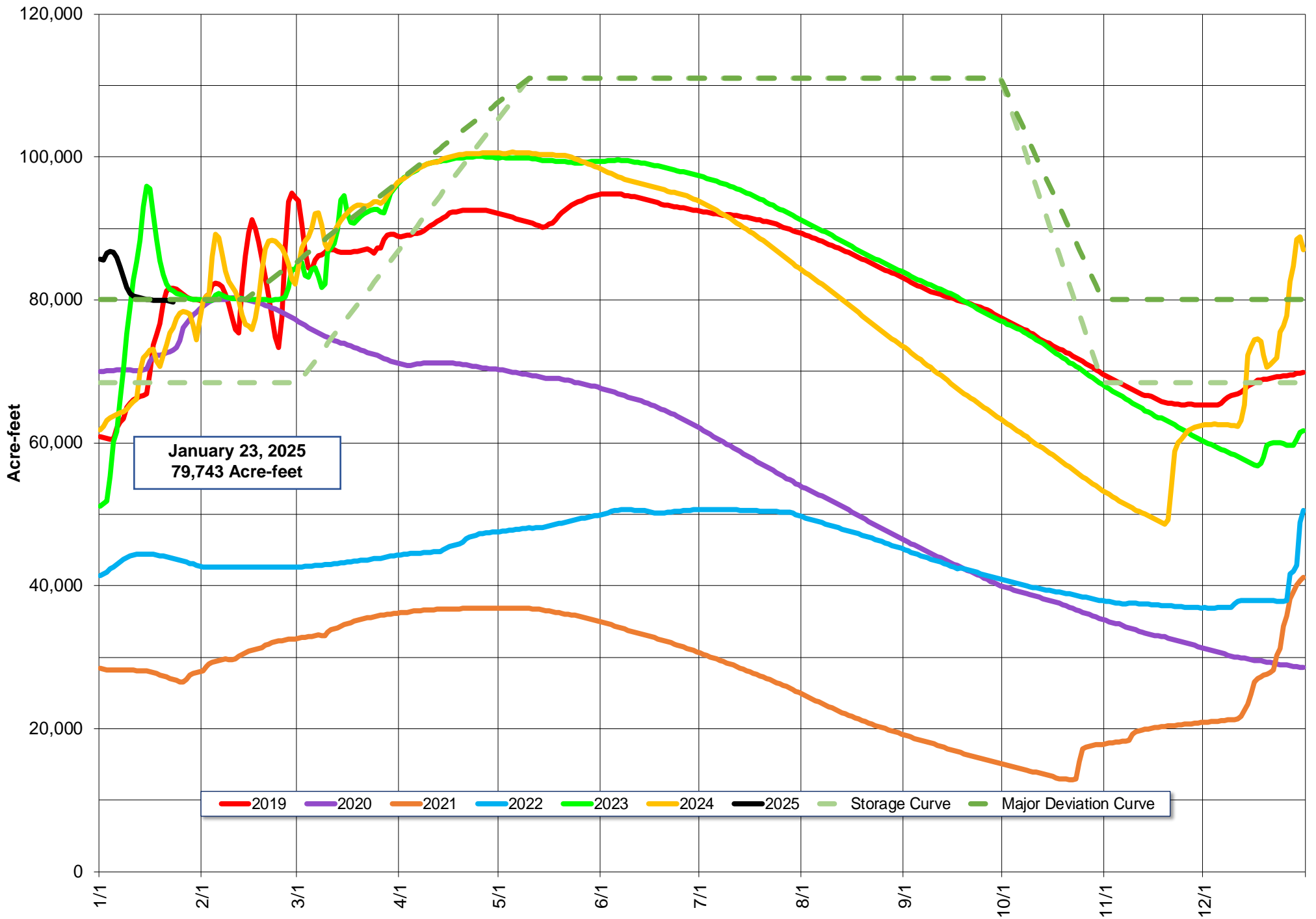
Instream Flow Requirements as of January 23, 2025

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

Upper and Lower Russian River are based on criteria as established in the Order issued 10/31/2024.

Lake Mendocino

Lake Mendocino Storage 2019 - 2025 and Storage Curve



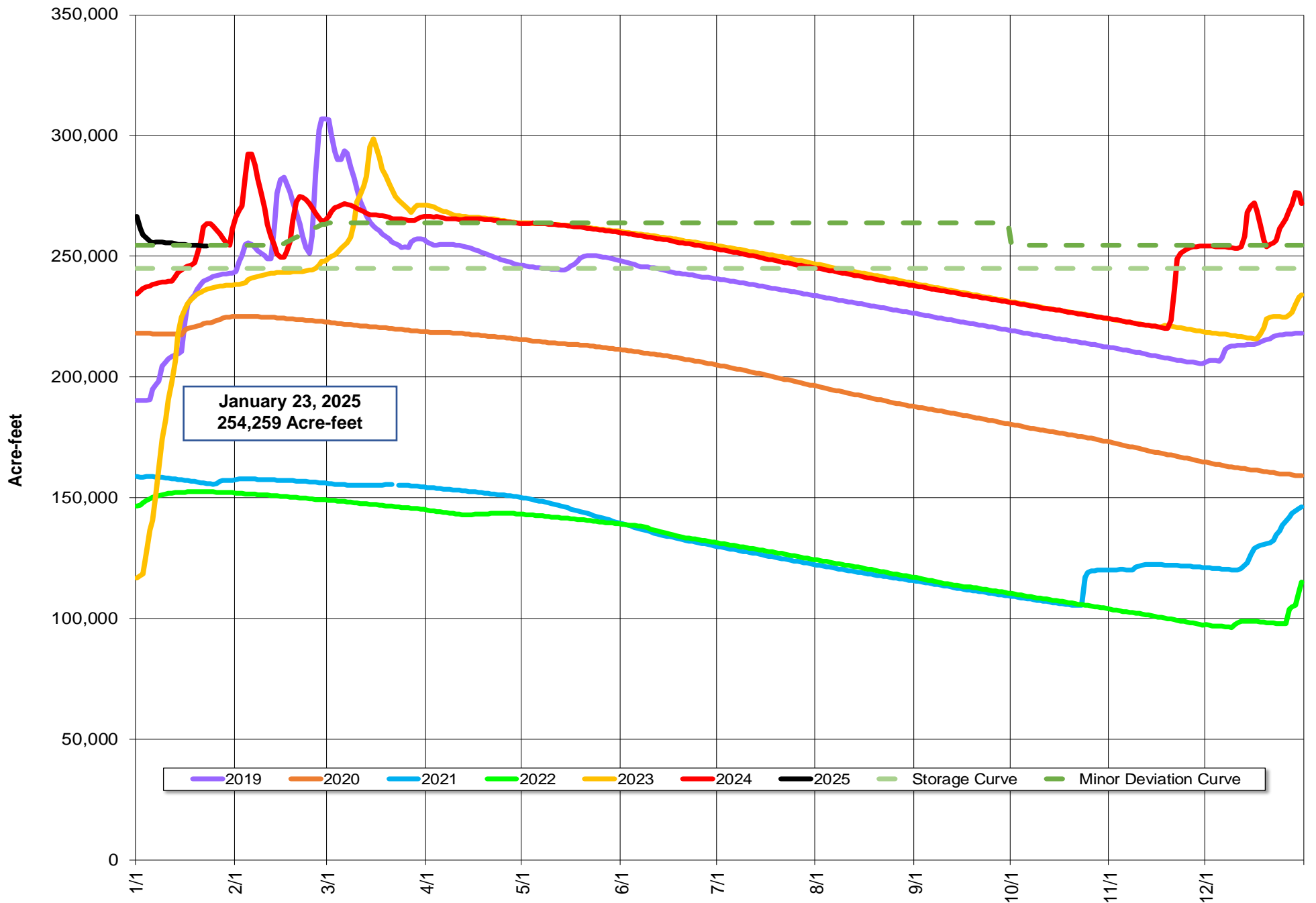
Storage (acre-feet)	January 23, 2025	79,743	
Change in Storage (acre-feet)	Last 30 days	4,302	143
	Last 7 days	-241	-34
Daily Inflow (cfs)	Last 7 days	Min	94
		Max	120
		Mean	110
Release (cfs)	Last 7 days	Min	124
		Max	134
		Mean	125

Lake Sonoma



Todd Schram, February 10, 2024

Lake Sonoma Storage 2019-2025



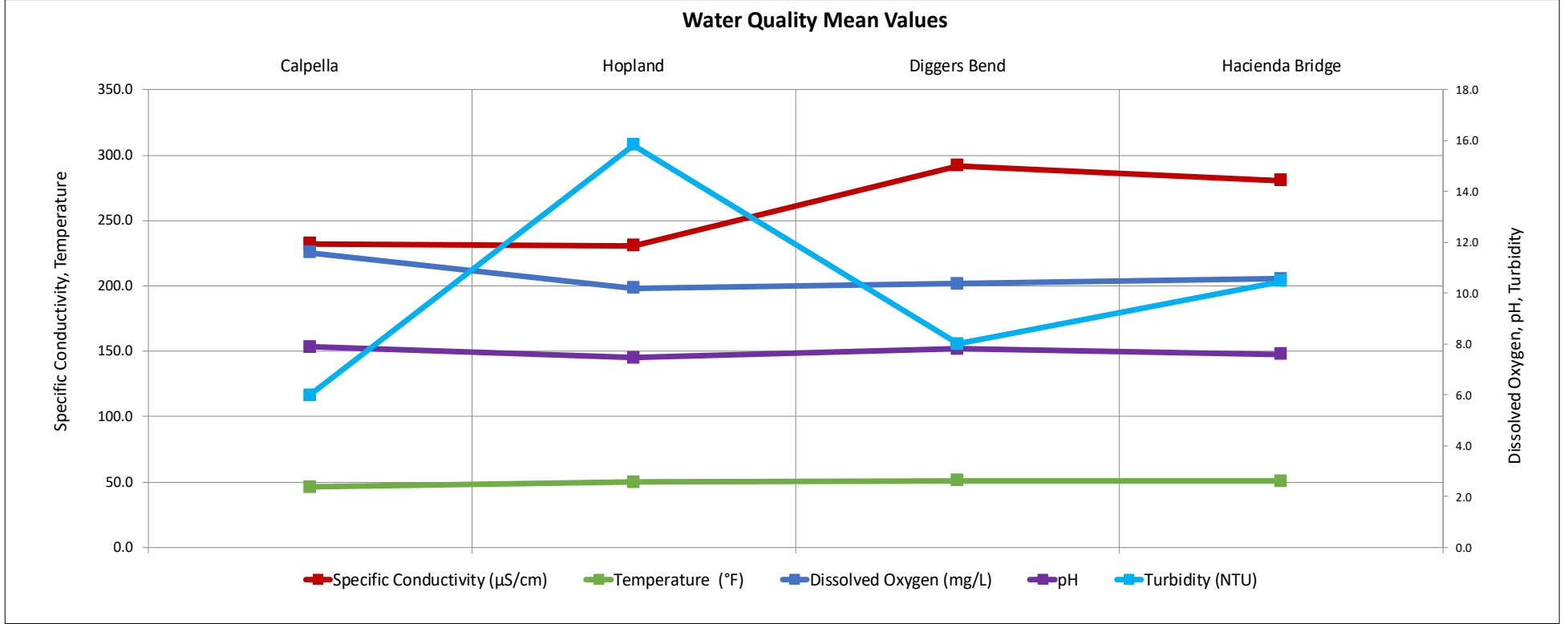
Storage (acre-feet)	January 23, 2025	254,259	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	-7,155	-239
	Last 7 days	-460	-66
Daily Inflow (cfs)	Last 7 days	Min	87
		Max	133
		Mean	77
Release (cfs)	Last 7 days	Min	121
		Max	151
		Mean	137

Russian River Flows (January 17, 2025 - January 23, 2025)

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	43.7	48.2		48.9	48.9		48.9	
	Max	48.0	51.4		53.2	52.7		52.2	
	Mean	45.9	50.0		51.1	50.9		50.7	
Specific Conductivity (µS/cm)	Min	230.0	226.0			281.0		270.0	
	Max	234.0	239.0			298.0		287.0	
	Mean	232.2	230.8			291.8		280.5	
Dissolved Oxygen (mg/L)	Min	11.2	9.9			10.1		10.3	
	Max	12.0	10.5			10.7		10.9	
	Mean	11.6	10.2			10.4		10.6	
Dissolved Oxygen (% Saturation)	Min	95.7	88.5			90.7		91.9	
	Max	100.0	92.3			95.9		97.0	
	Mean	97.3	90.3			92.9		94.5	
pH	Min	7.8	7.4			7.8		7.5	
	Max	7.9	7.5			7.9		7.6	
	Mean	7.9	7.5			7.8		7.6	
Turbidity (NTU)	Min	5.0	13.7			6.4		8.4	
	Max	7.3	18.8			10.7		13.5	
	Mean	6.0	15.8			8.0		10.5	

*Station operated seasonally

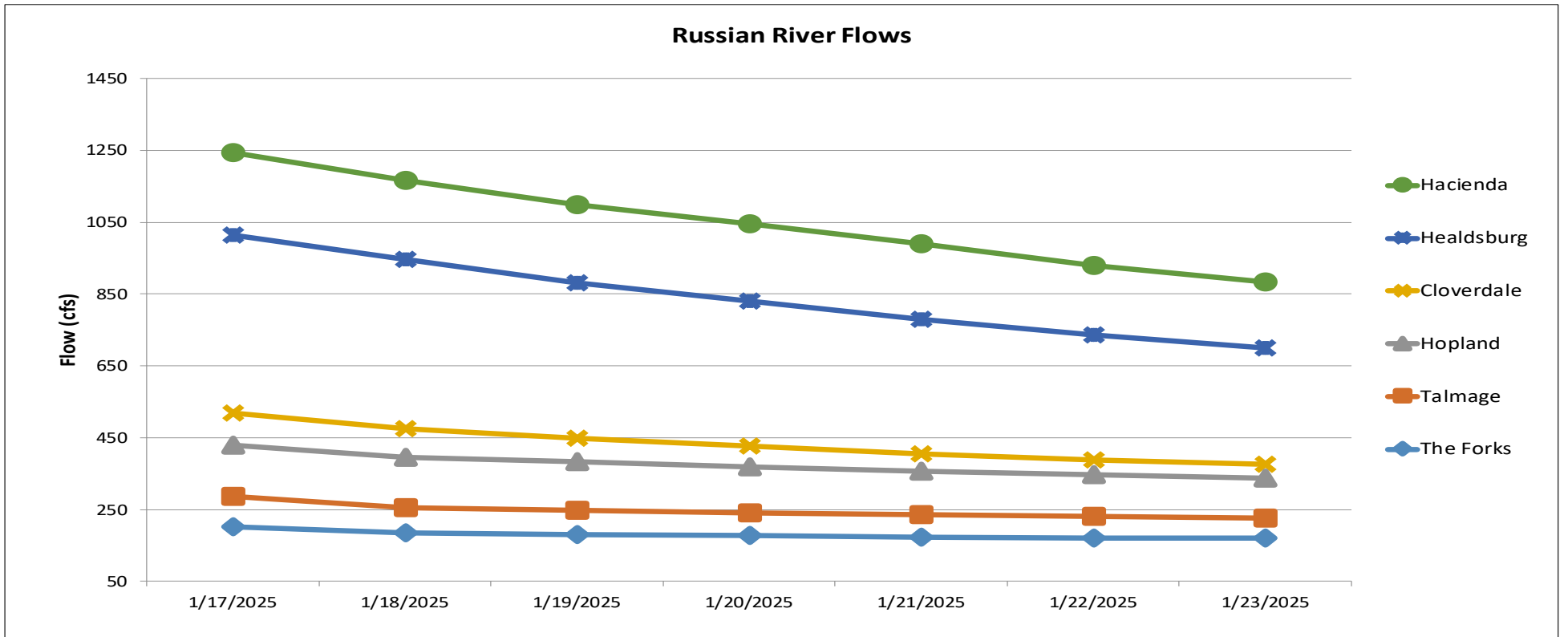
Water Quality Mean Values



Gage	24-hr Average Flow (cfs)						
	Jan 17, 2025	Jan 18, 2025	Jan 19, 2025	Jan 20, 2025	Jan 21, 2025	Jan 22, 2025	Jan 23, 2025
The Forks*	201	185	181	178	174	171	169
Talmage USGS 11462080	287	254	247	242	235	231	226
Hopland USGS 11462500	429	396	383	370	356	347	338
Cloverdale USGS 11463000	519	475	449	428	405	389	376
Healdsburg USGS 11464000	1014	947	880	830	780	736	699
Hacienda USGS 11467000	1243	1168	1099	1045	989	930	885

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

Russian River Flows

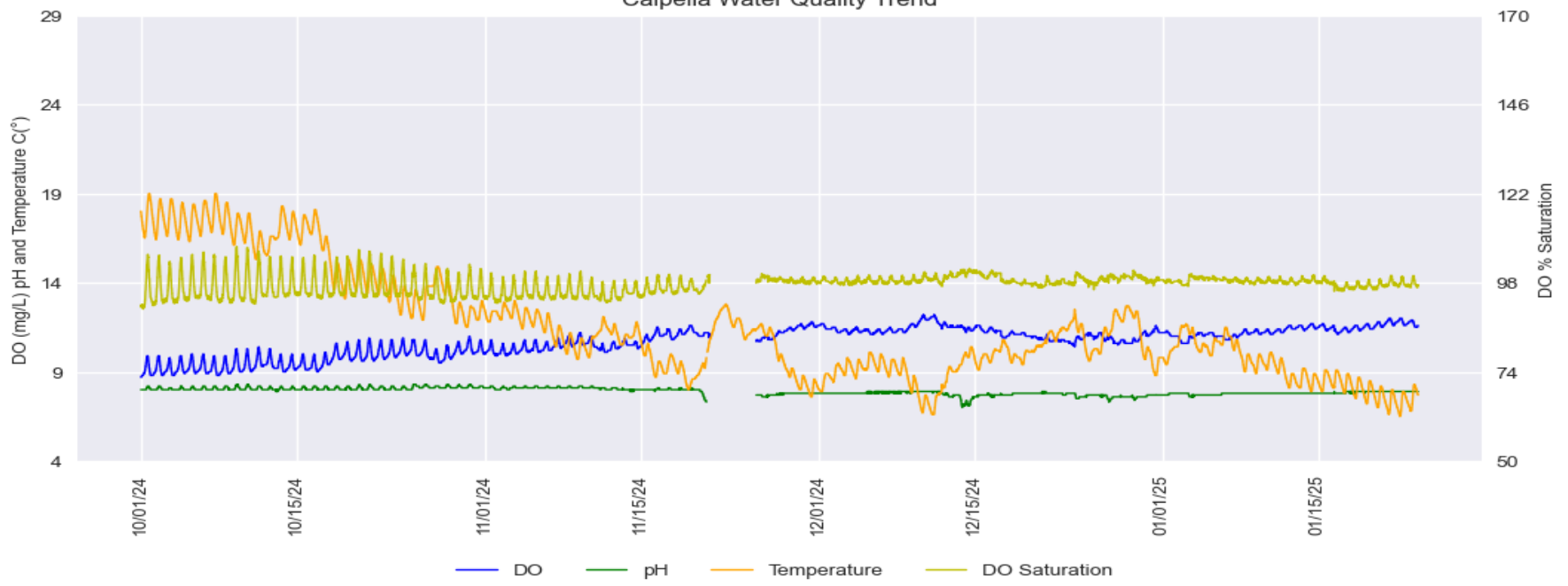


Russian River Water Quality October 1, 2024 – January 23, 2025

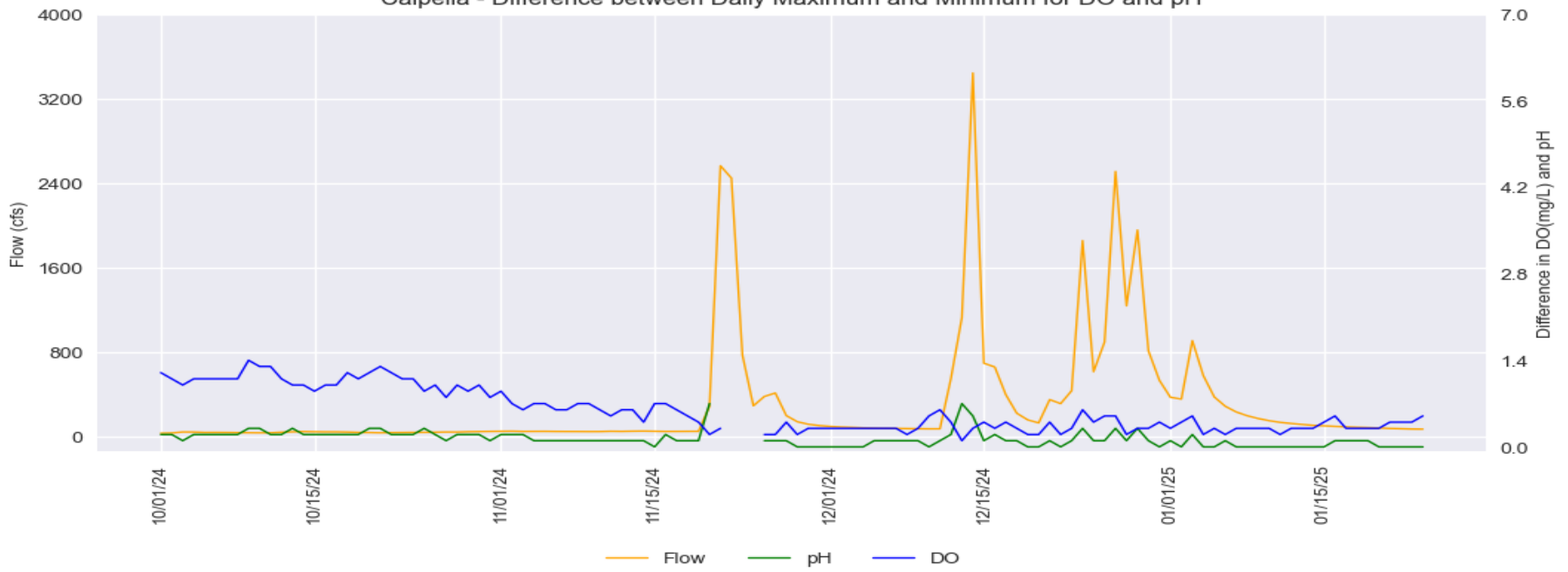
Provisional Data Subject to Revision

Calpella

Calpella Water Quality Trend

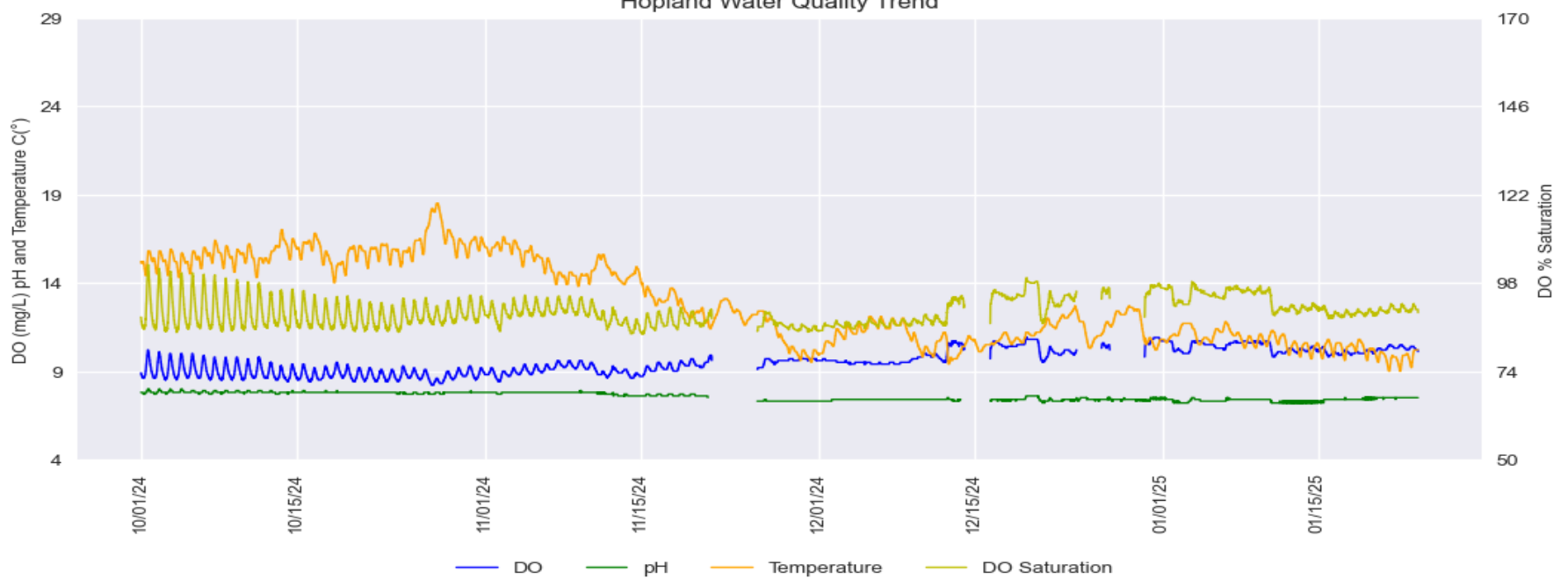


Calpella - Difference between Daily Maximum and Minimum for DO and pH

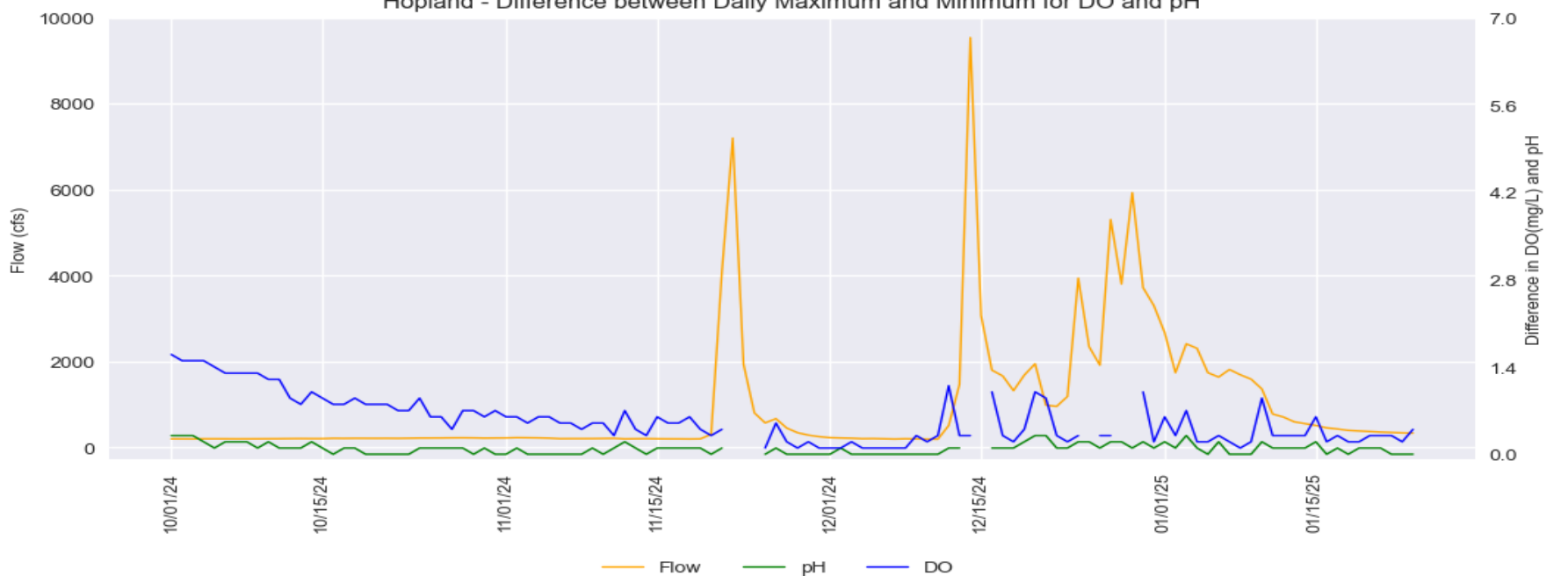


Hopland

Hopland Water Quality Trend



Hopland - Difference between Daily Maximum and Minimum for DO and pH

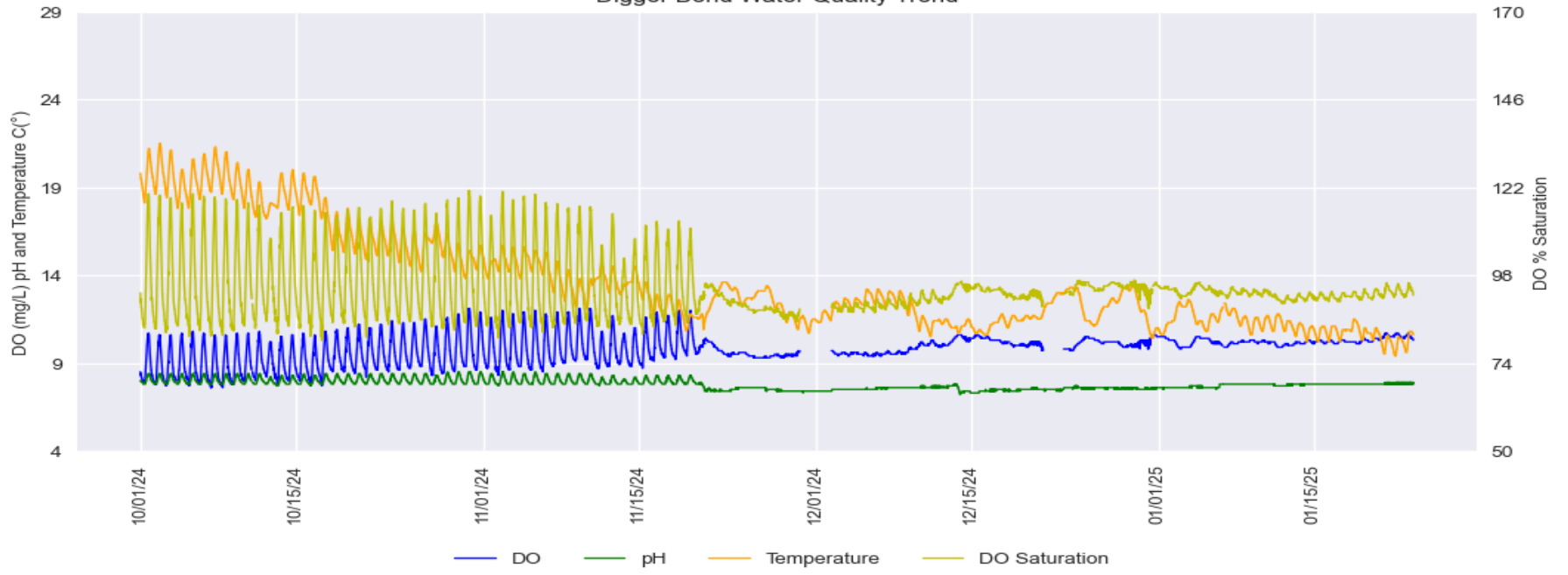


Russian River Water Quality October 1, 2024 – January 23, 2025

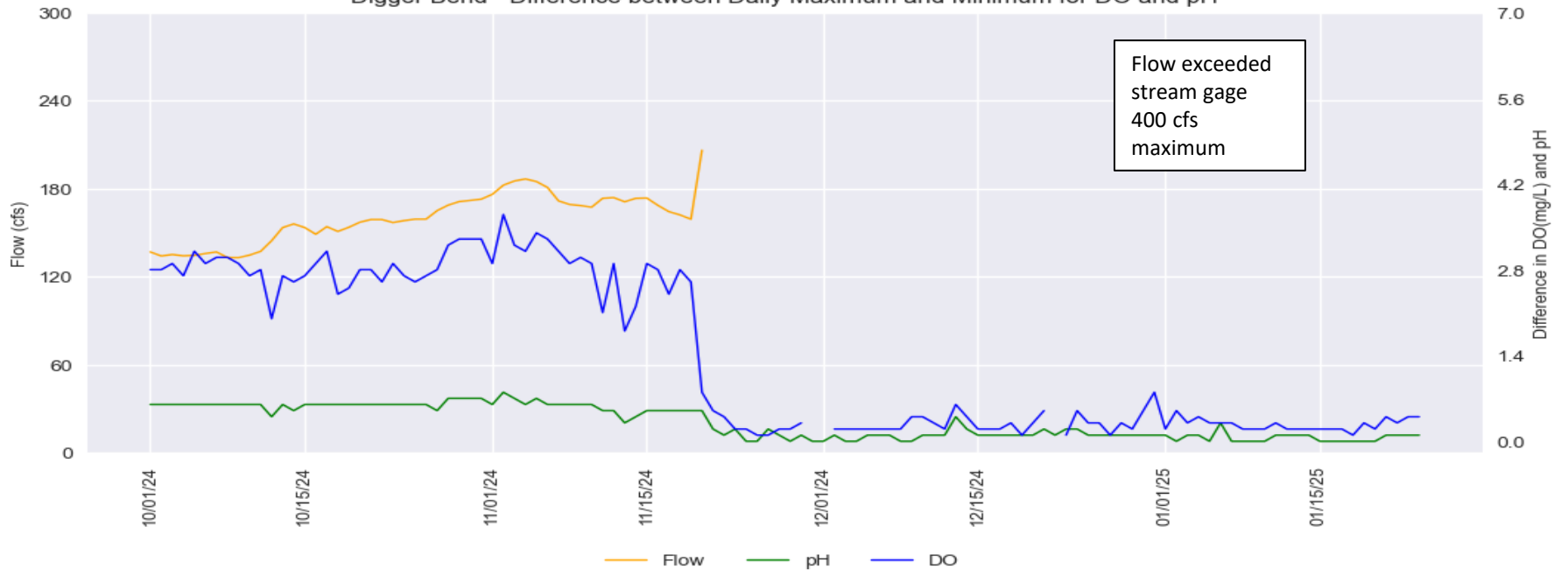
Provisional Data Subject to Revision

Digger Bend

Digger Bend Water Quality Trend

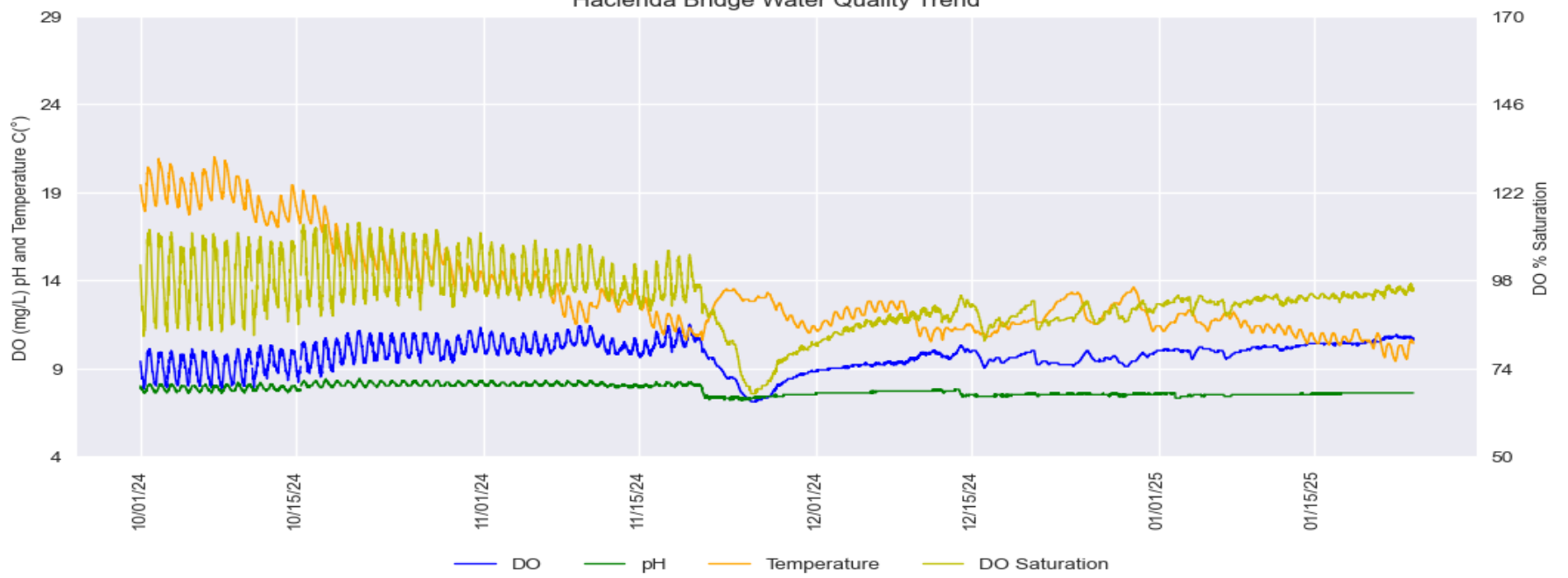


Digger Bend - Difference between Daily Maximum and Minimum for DO and pH

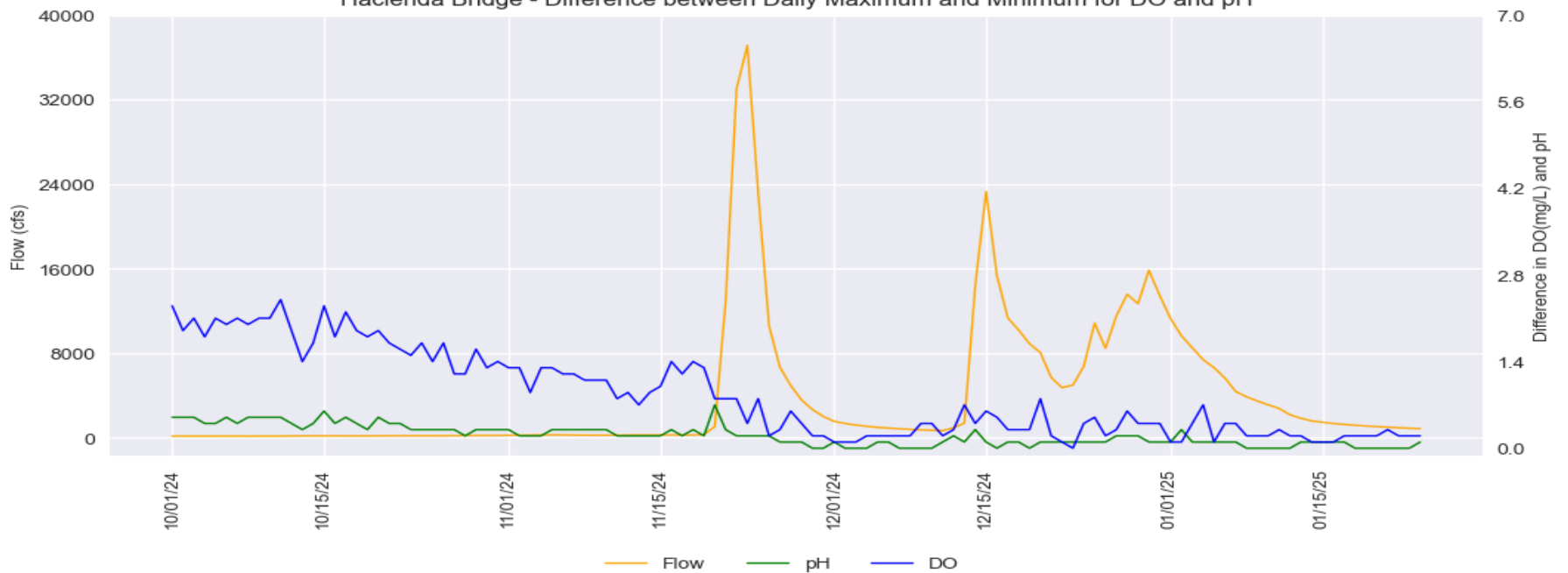


Hacienda Bridge

Hacienda Bridge Water Quality Trend



Hacienda Bridge - Difference between Daily Maximum and Minimum for DO and pH

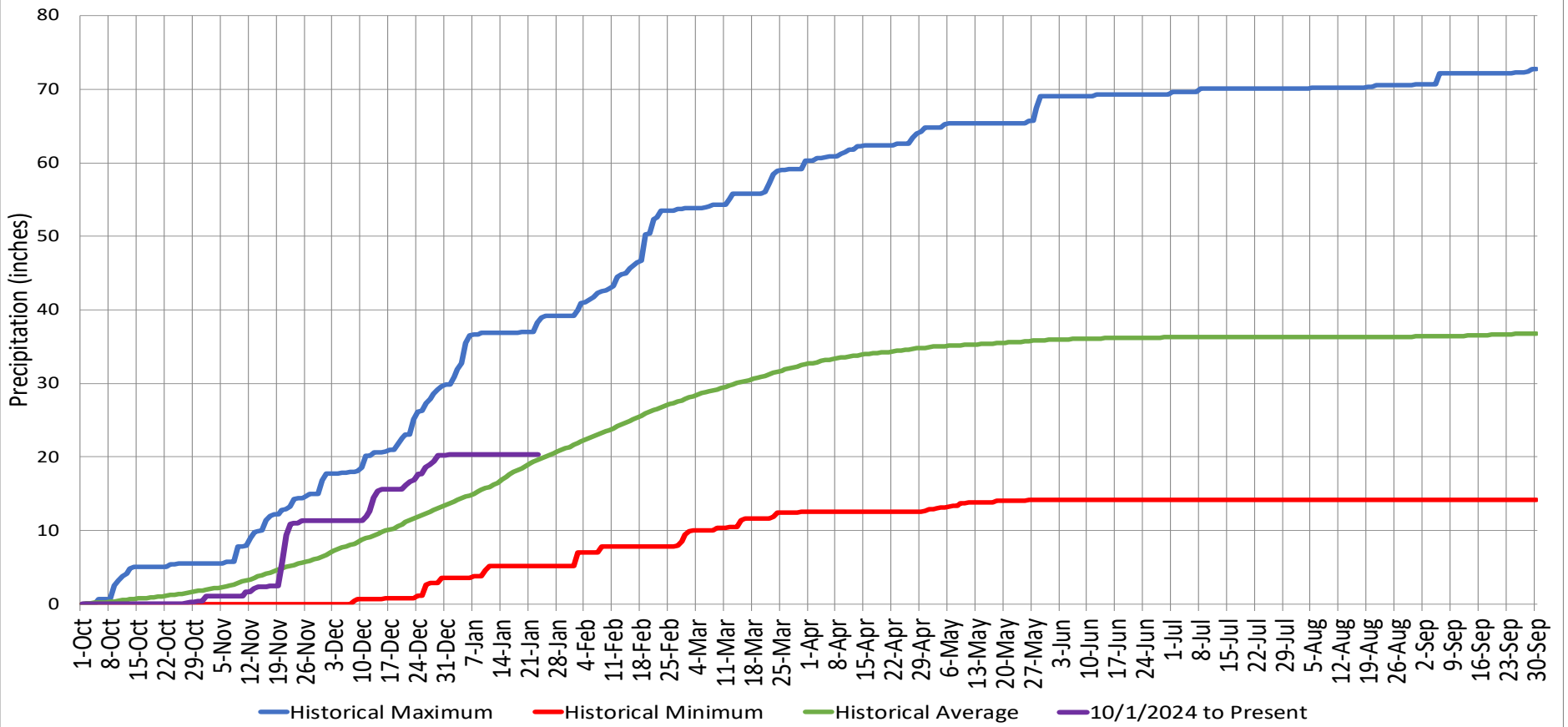


Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

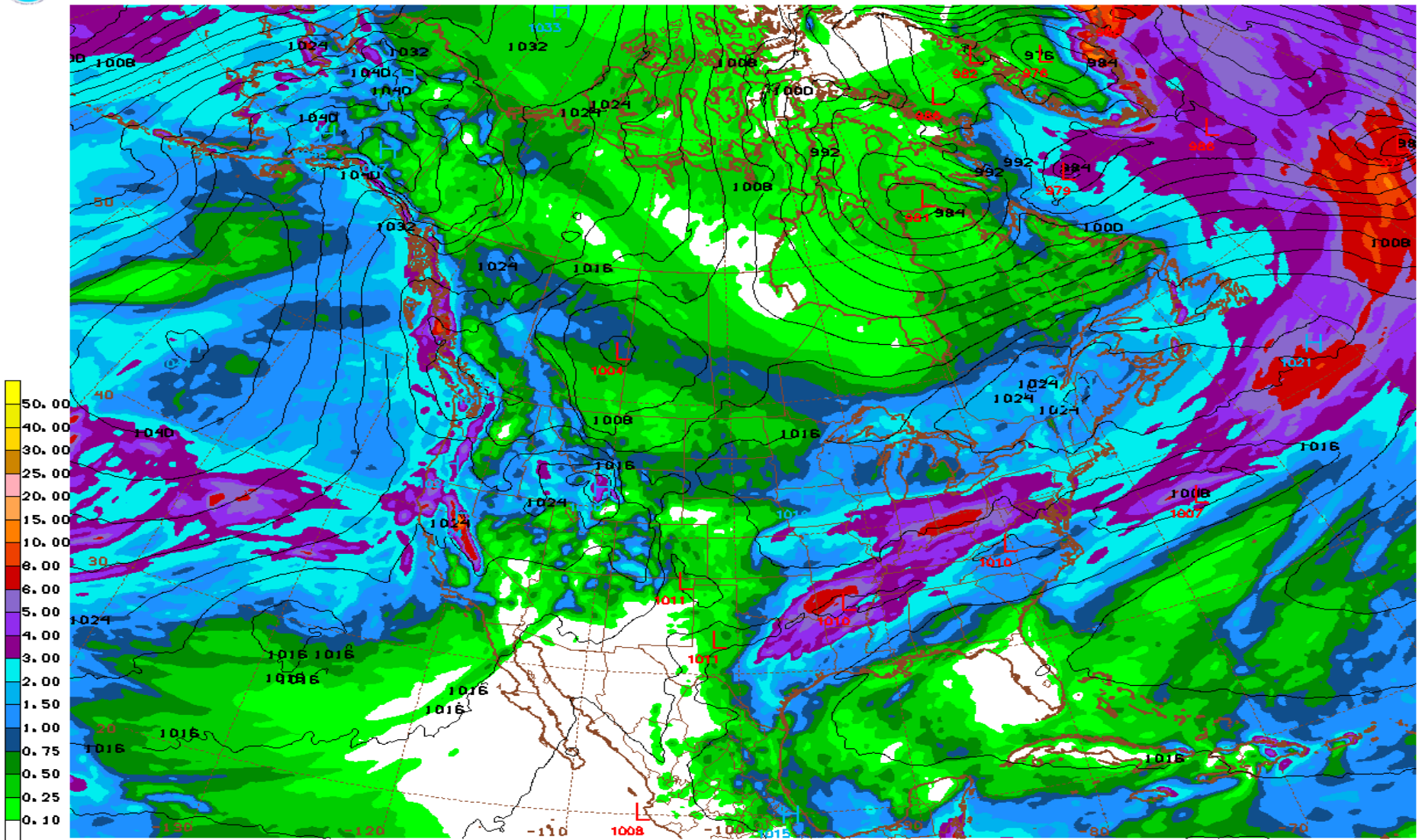
Date Range	Cumulative (inches)
Oct 1, 2024 - Jan 23, 2025	20.33
Last 7 Days*	0.00

Cumulative Precipitation Comparison of Current Year versus Historic Record



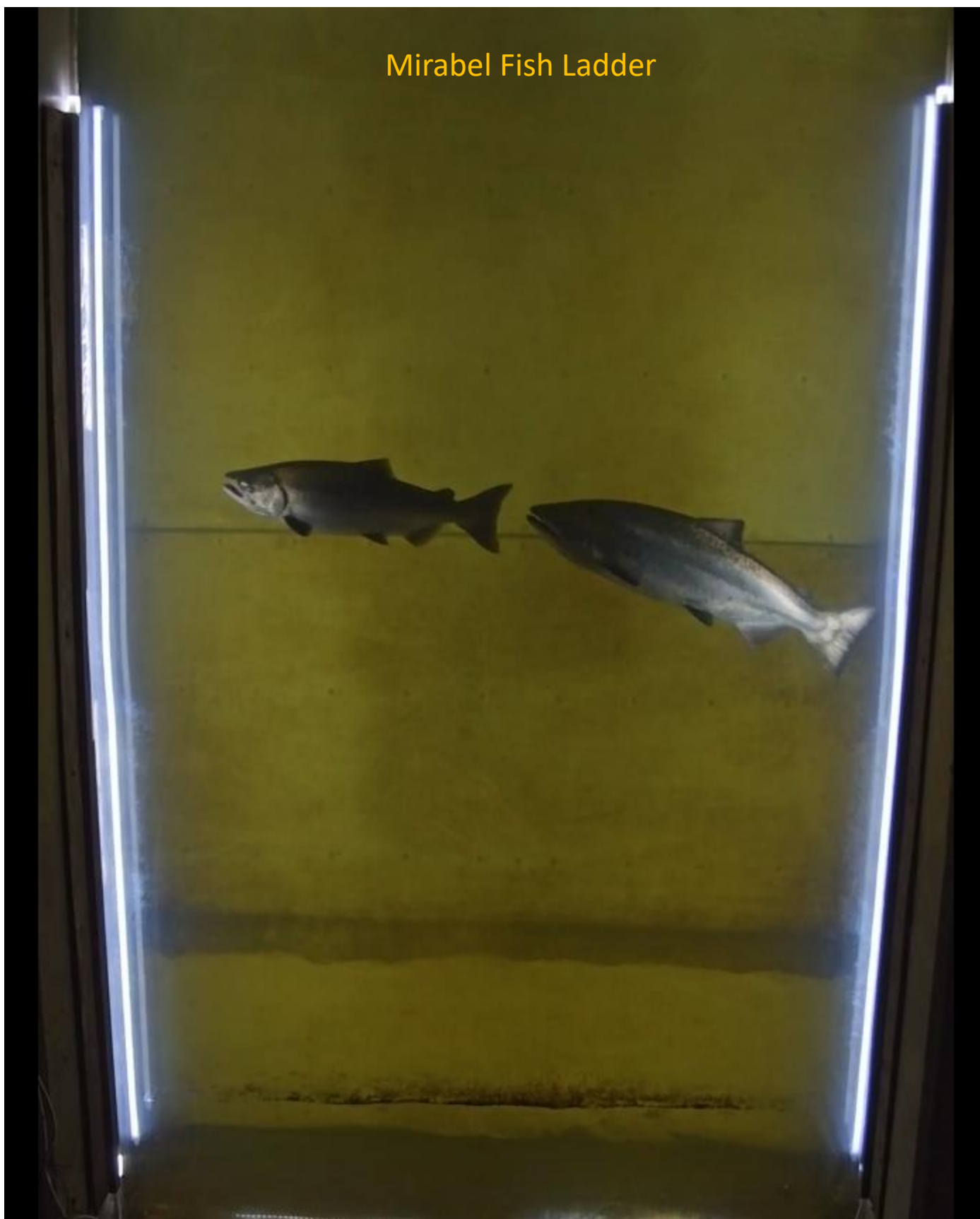
Global Forecast System Model 16-day Cumulative Precipitation Forecast

GFS 01/27/25 12UTC 384HR FCST VALID MED 02/12/25 12UTC NOAA/NWS/NCEP



GFS MED 250212/1200V384 ENSL (4MB). 384HR ACCUMULATED PRECIP (IN)
 Date Range: Jan 27 - Feb 12, 2025
 Forecasted Cumulative (inches): **1.60**

Russian River Fisheries Monitoring



Sonoma Water operates a video camera at the Mirabel Inflatable dam to count the number of adult salmonids returning to the Russian River. Due to an impending storm the dam was deflated on November 19, 2024, and the video equipment was removed for the season. Sonoma Water has completed reviewing the data collected during the 2024 season and the preliminary count is 1,512 adult Chinook. The 2024 count is less than the long-term average of 2,610 Chinook, but the camera was removed earlier in the year than typical, and it is likely that many adult Chinook have returned since removing the camera.