



State Water Resources Control Board
 Temporary Urgency Change Orders (10/31/2024)
 Russian River Hydrologic & Water Quality Report
 February 14, 2025 - February 20, 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).

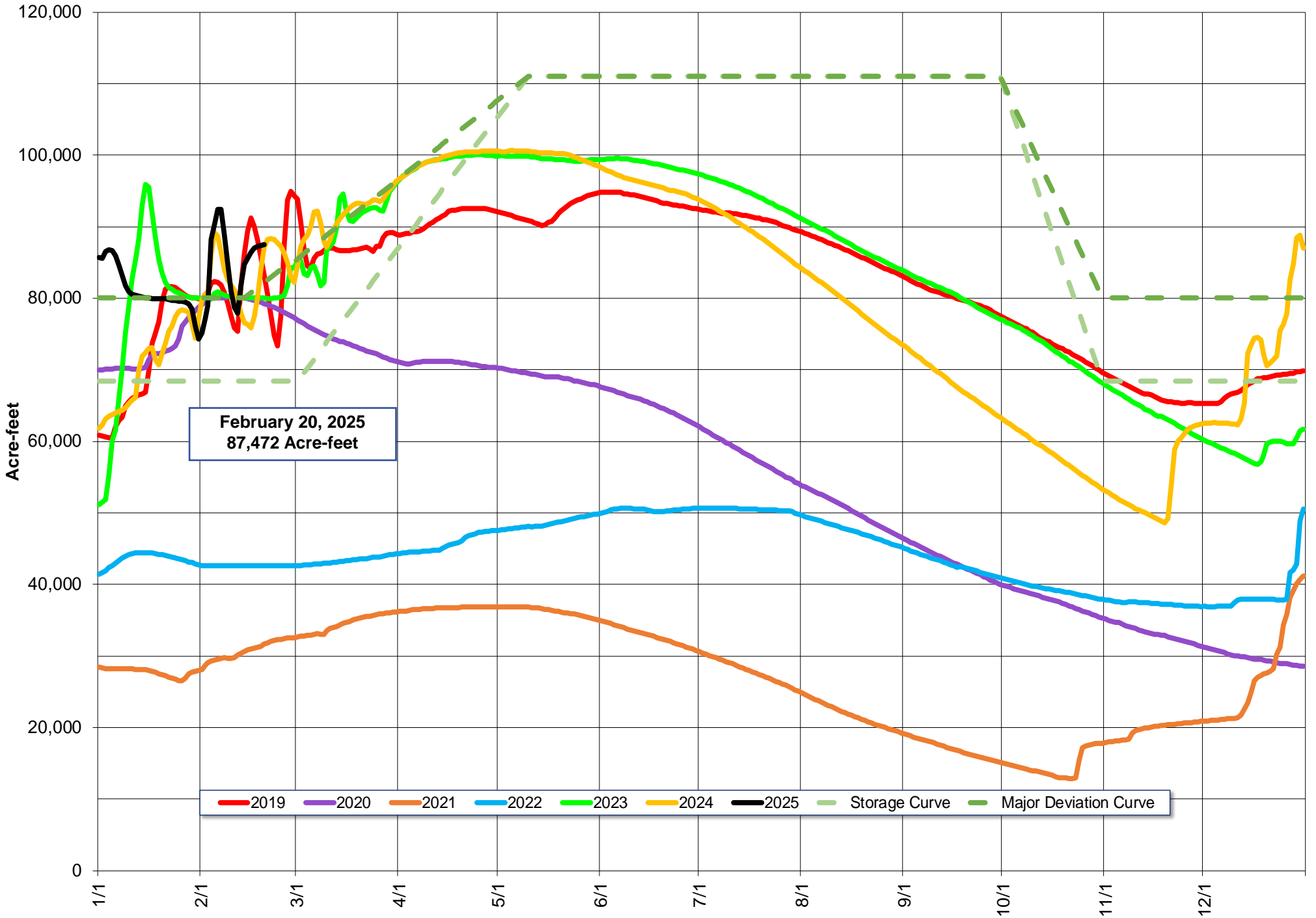
Instream Flow Requirements as of February 20, 2025

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



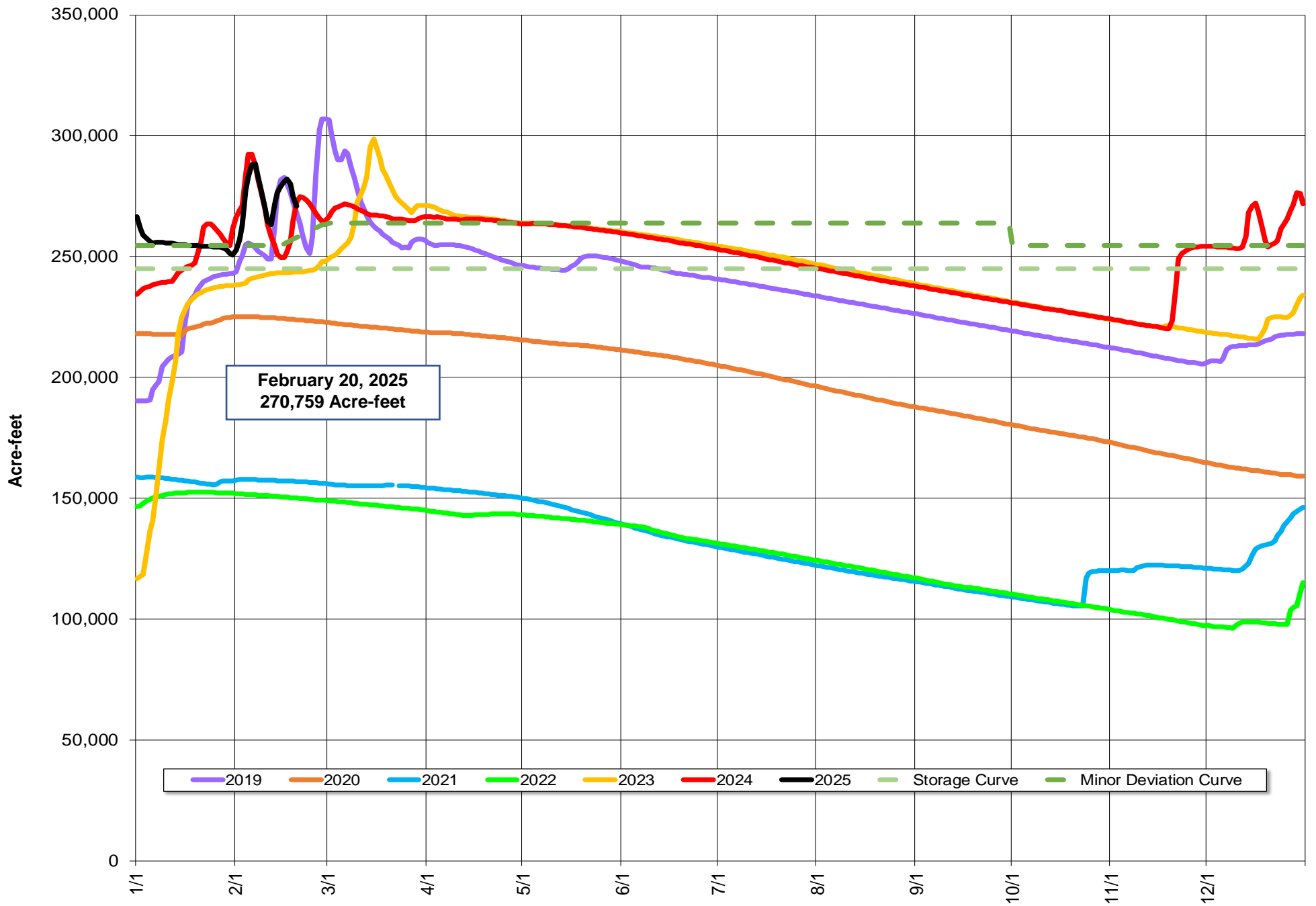
Storage (acre-feet)	February 20, 2025	87,472	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
	Last 7 days	7,591	253
Daily Inflow (cfs)	Last 7 days	Min	398
		Max	1,624
		Mean	665
Release (cfs)	Last 7 days	Min	195
		Max	358
		Mean	256

Lake Sonoma



Todd Schram, February 10, 2024

Lake Sonoma Storage 2019-2025



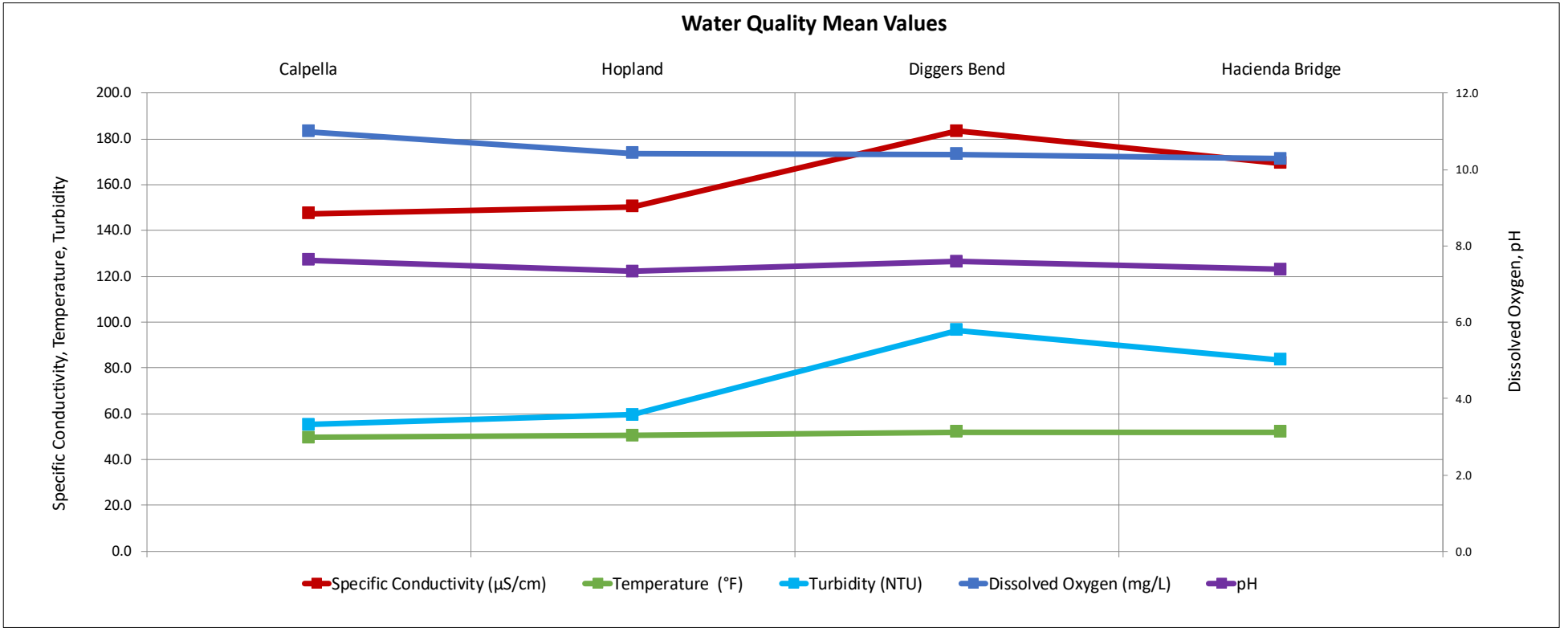
Storage (acre-feet)	February 20, 2025	270,759	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	16,359	545
	Last 7 days	-5,743	-820
Daily Inflow (cfs)	Last 7 days	Min	280
		Max	2,742
		Mean	1,041
Release (cfs)	Last 7 days	Min	184
		Max	3,060
		Mean	1,085

Russian River Flows (February 14, 2025 - February 20, 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	45.9	47.5		49.3	49.3		50.0	
	Max	52.7	52.7		54.9	54.7		53.6	
	Mean	49.7	50.5		51.8	52.0		52.0	
Specific Conductivity (µS/cm)	Min	98.0	79.0			109.0		114.0	
	Max	181.0	181.0			231.0		211.0	
	Mean	147.4	150.4			183.6		169.5	
Dissolved Oxygen (mg/L)	Min	10.5	10.0			10.0		9.9	
	Max	11.7	11.1			10.9		10.7	
	Mean	11.0	10.4			10.4		10.3	
Dissolved Oxygen (% Saturation)	Min	94.5	90.9			92.3		90.0	
	Max	99.3	96.7			97.4		98.3	
	Mean	96.9	92.9			94.5		93.4	
pH	Min	7.4	7.2			7.5		7.2	
	Max	7.7	7.5			7.7		7.5	
	Mean	7.6	7.3			7.6		7.4	
Turbidity (NTU)	Min	29.8	24.8			32.4		35.9	
	Max	190.0	239.0			347.0		254.0	
	Mean	55.2	59.6			96.5		83.5	

*Station operated seasonally

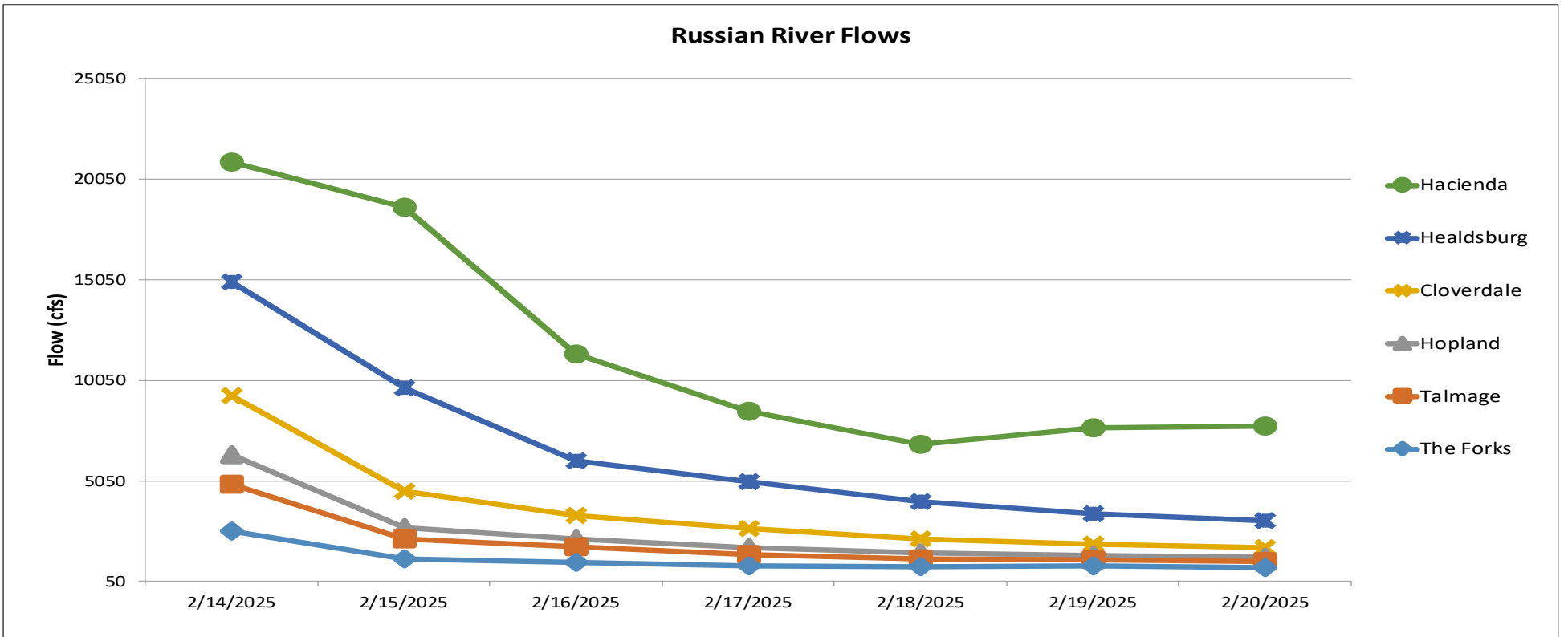
Water Quality Mean Values



Gage	24-hr Average Flow (cfs)						
	Feb 14, 2025	Feb 15, 2025	Feb 16, 2025	Feb 17, 2025	Feb 18, 2025	Feb 19, 2025	Feb 20, 2025
The Forks*	2548	1149	1012	812	760	805	745
Talmage USGS 11462080	4888	2170	1769	1374	1161	1119	1027
Hopland USGS 11462500	6359	2741	2177	1741	1455	1353	1244
Cloverdale USGS 11463000	9286	4535	3341	2663	2141	1904	1747
Healdsburg USGS 11464000	14936	9662	6025	5011	3996	3403	3067
Hacienda USGS 11467000	20909	18653	11357	8513	6868	7690	7772

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

Russian River Flows

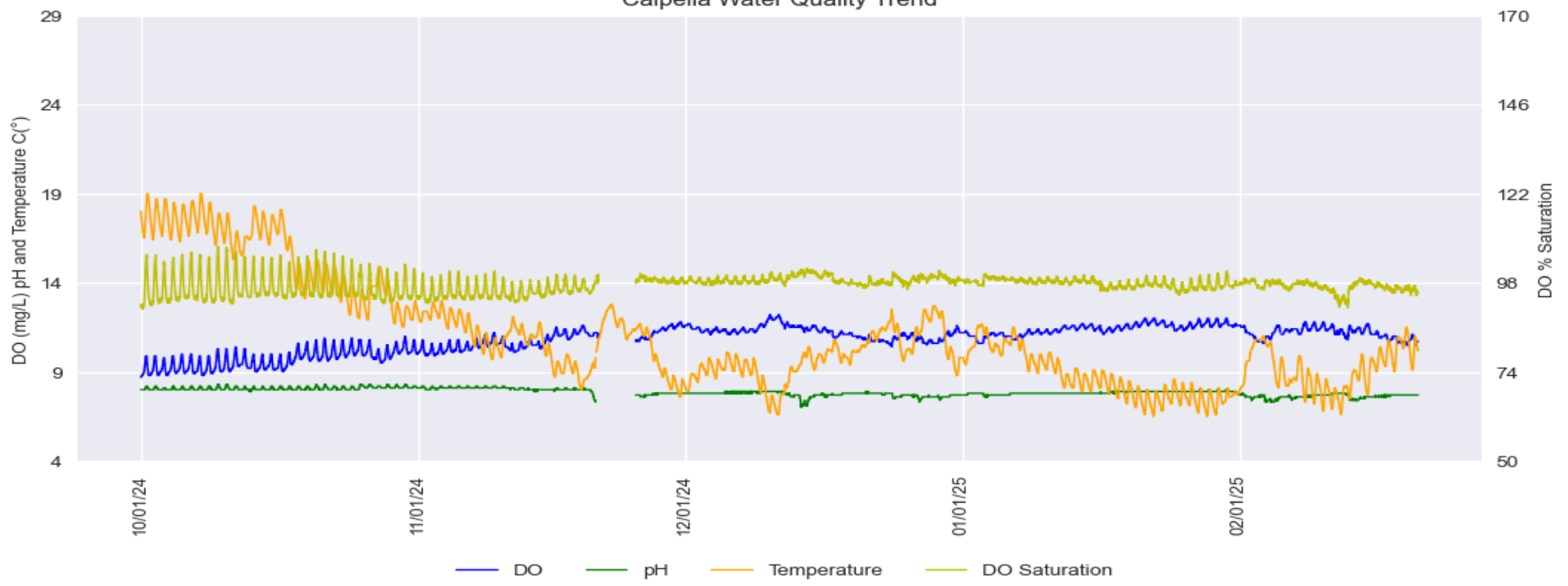


Russian River Water Quality October 1, 2024 – February 20, 2025

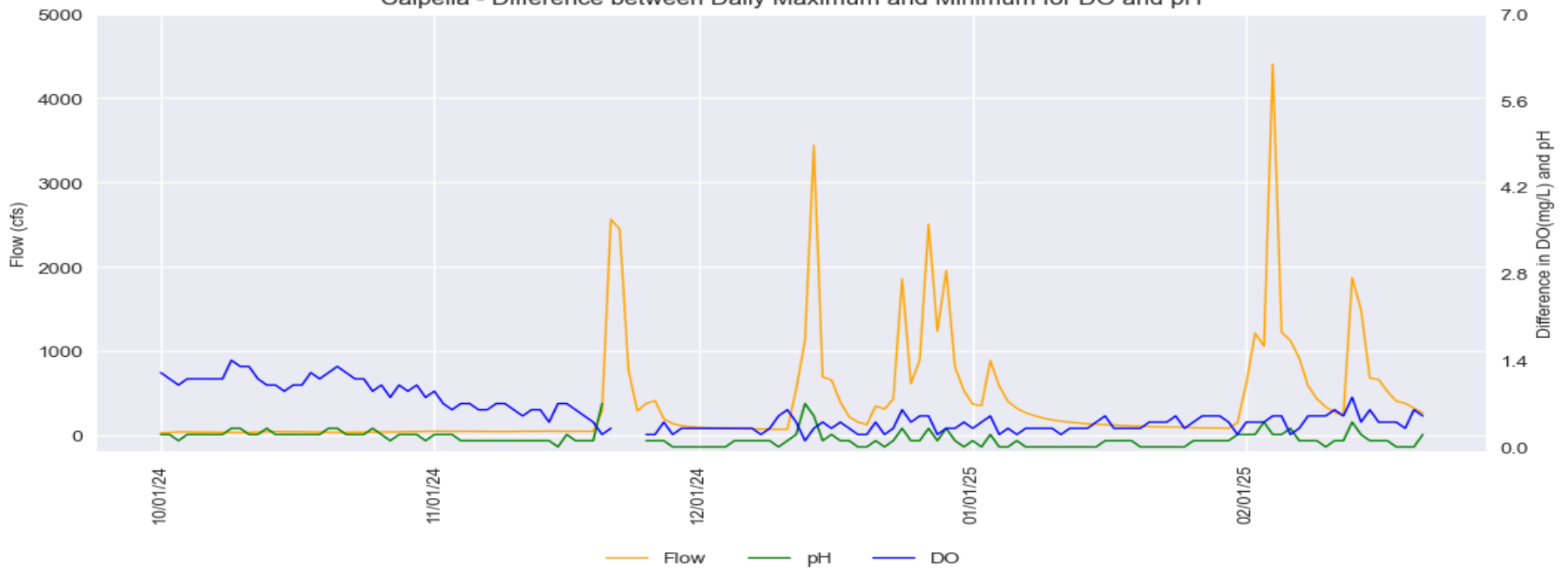
Provisional Data Subject to Revision

Calpella

Calpella Water Quality Trend

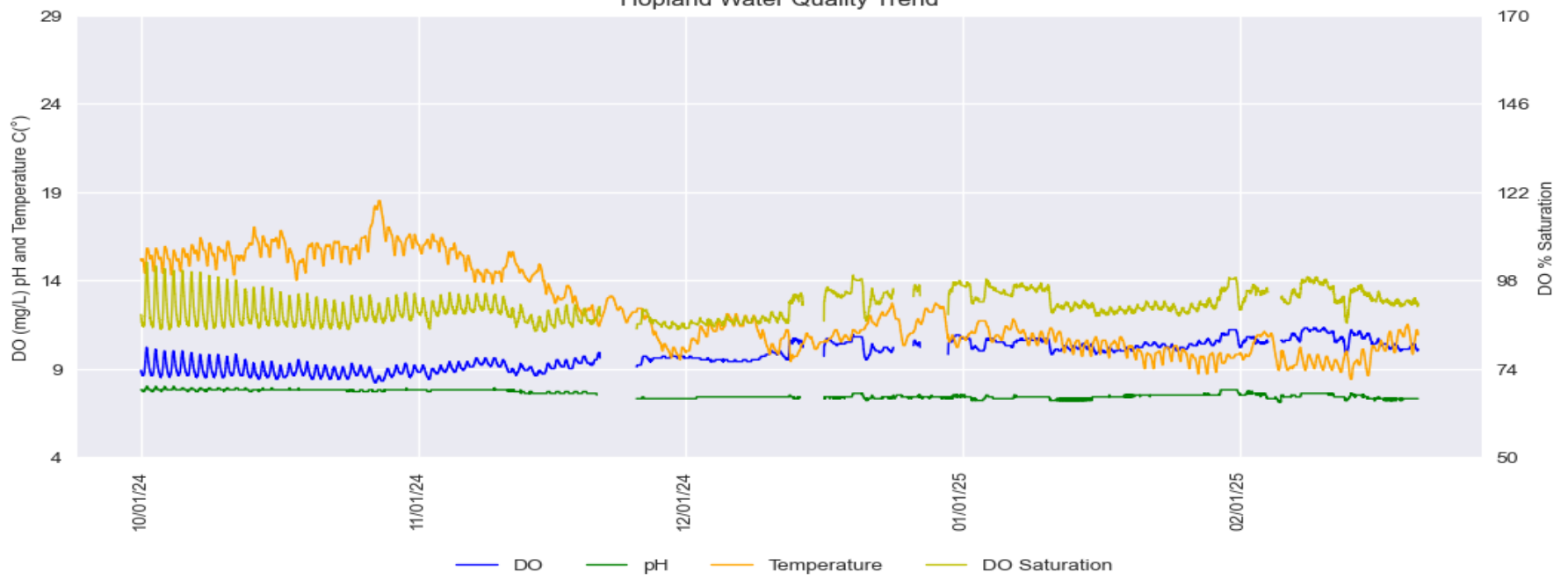


Calpella - Difference between Daily Maximum and Minimum for DO and pH

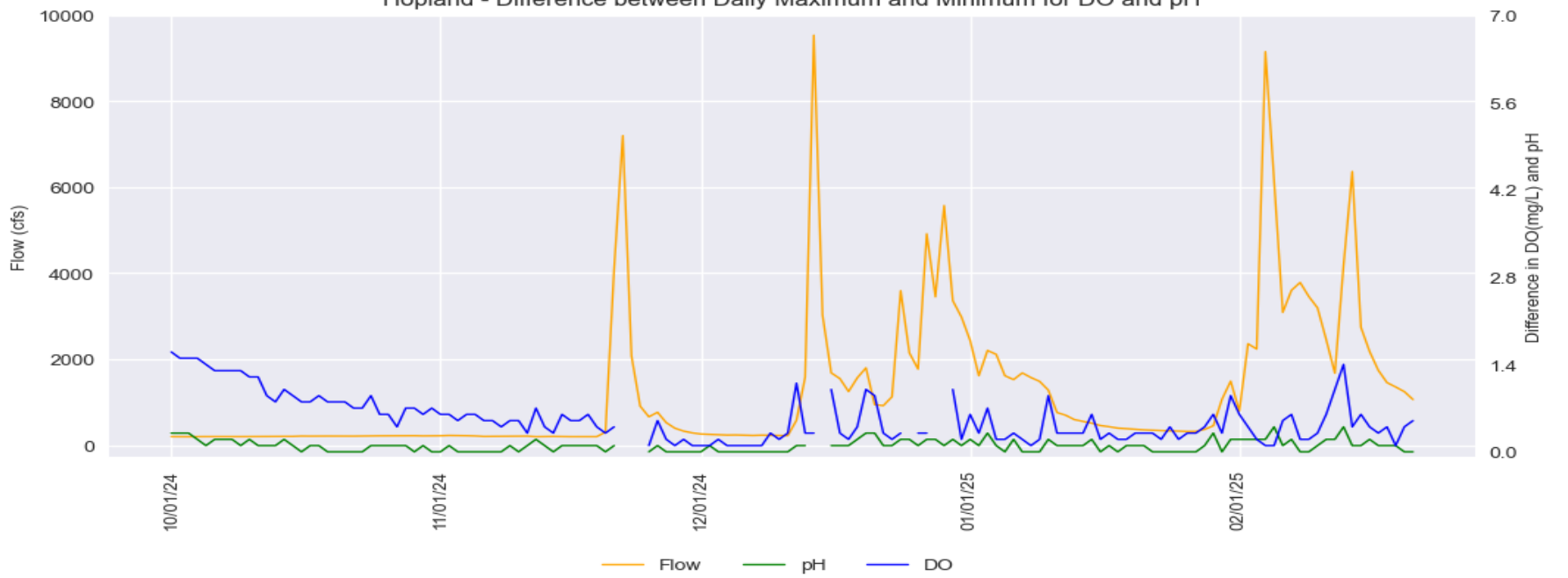


Hopland

Hopland Water Quality Trend



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

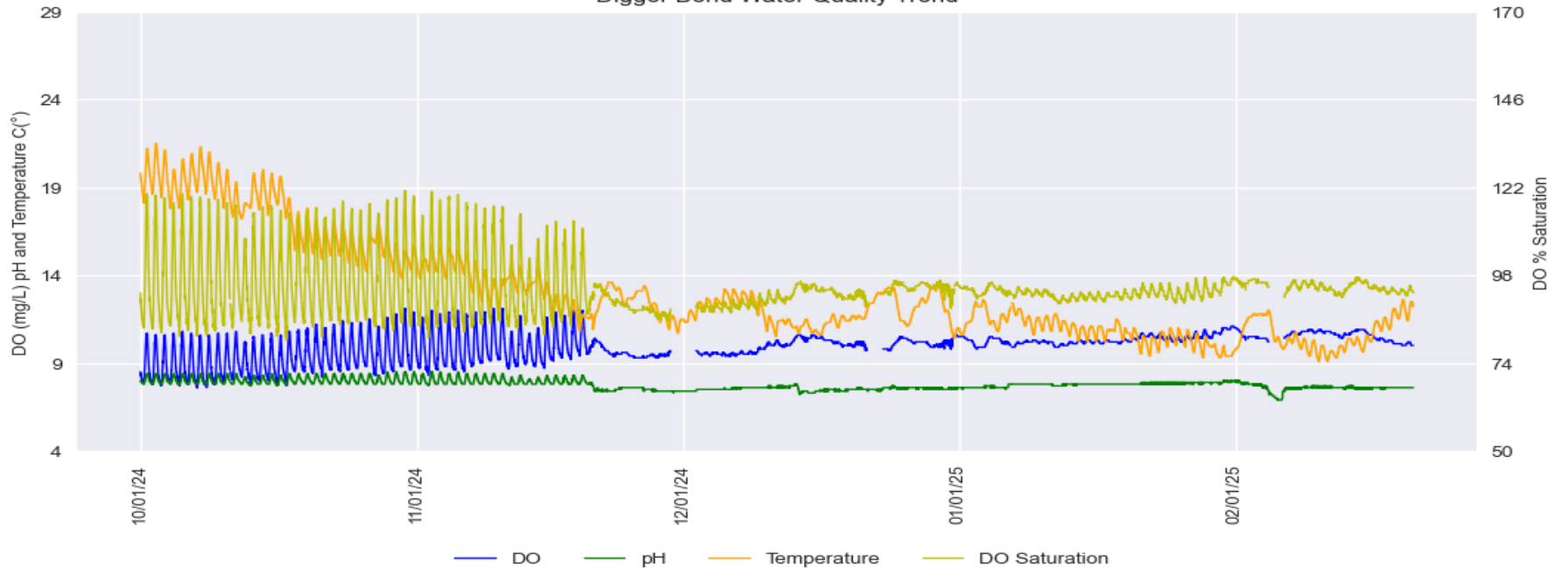


Russian River Water Quality October 1, 2024 – February 20, 2025

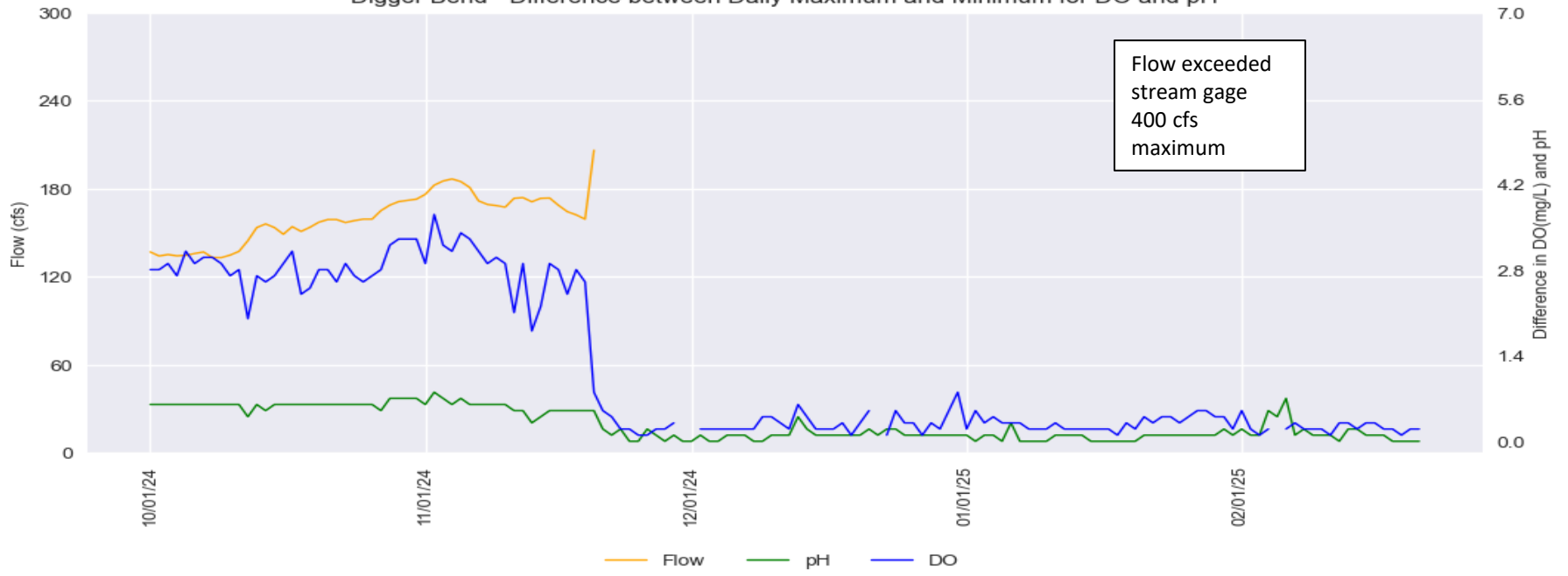
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Digger Bend

Digger Bend Water Quality Trend

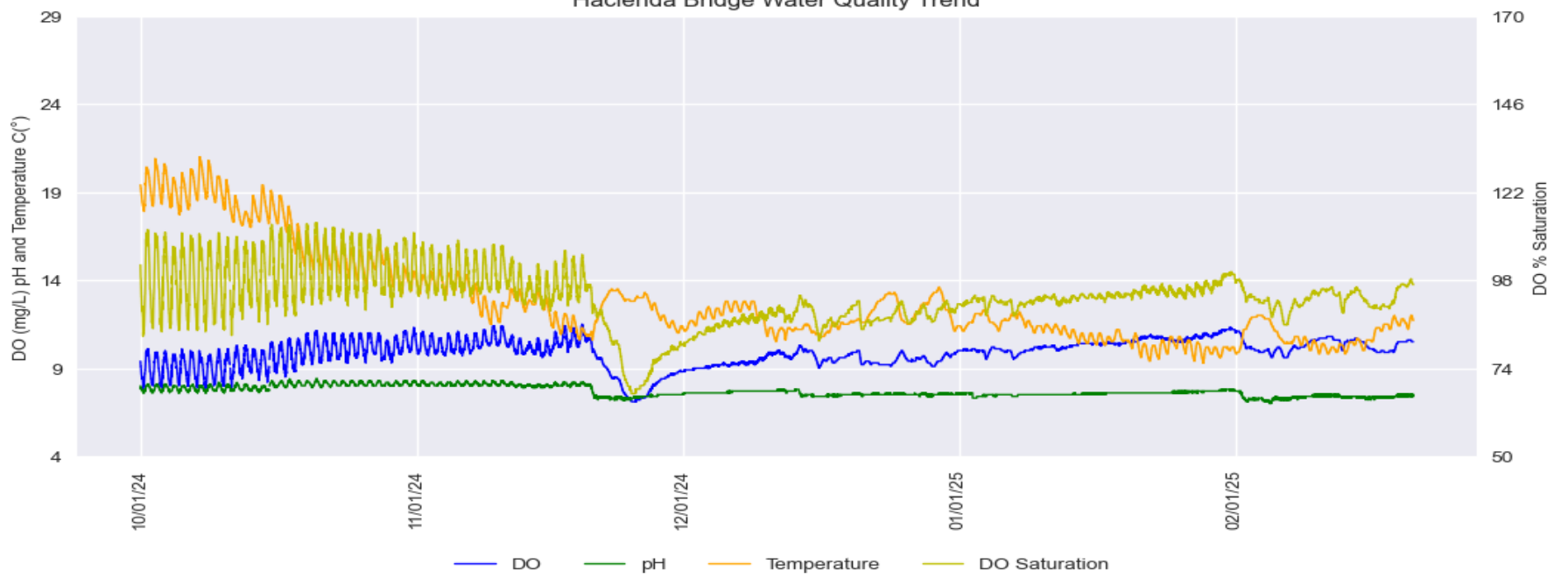


Digger Bend - Difference between Daily Maximum and Minimum for DO and pH

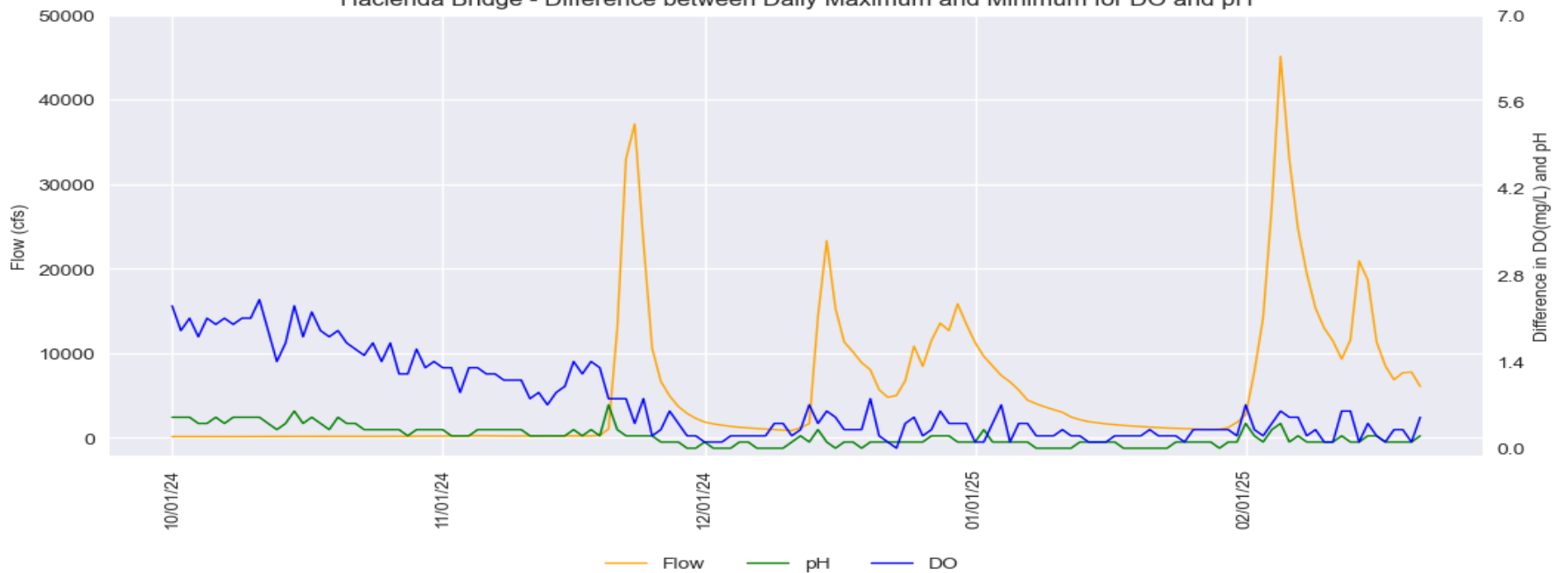


Hacienda Bridge

Hacienda Bridge Water Quality Trend



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

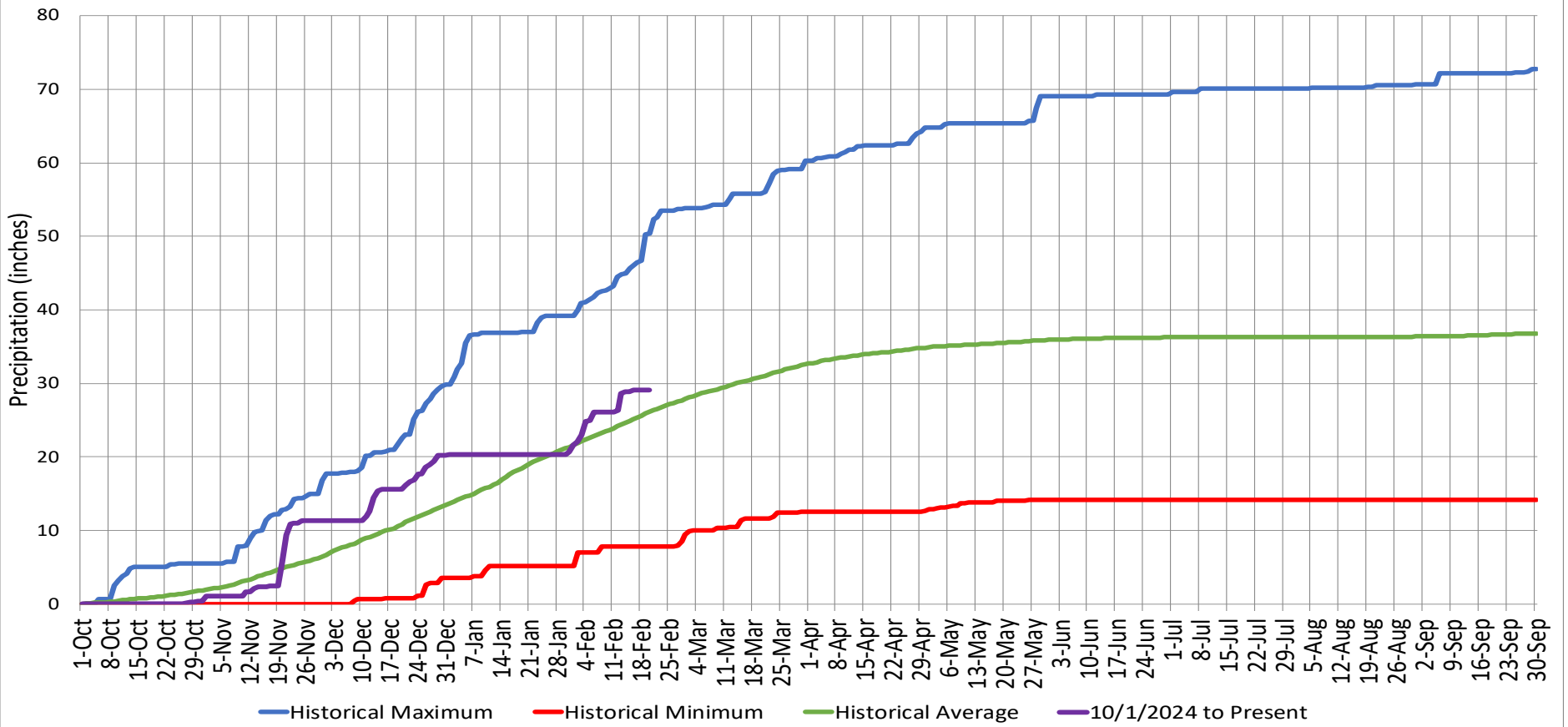


Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

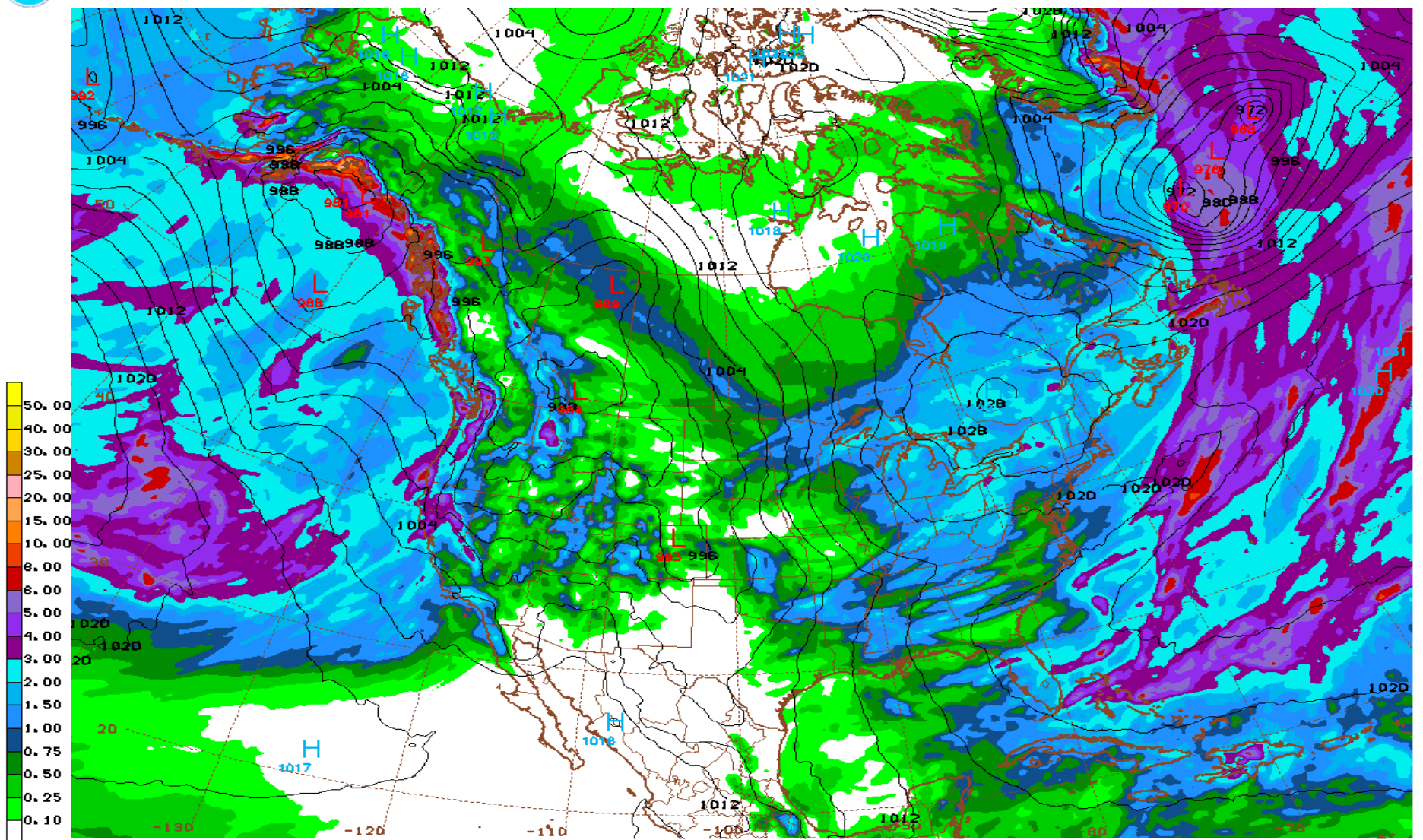
Date Range	Cumulative (inches)
Oct 1, 2024 - Feb 20, 2025	29.15
Last 7 Days*	0.50

Cumulative Precipitation Comparison of Current Year versus Historic Record



Global Forecast System Model 16-day Cumulative Precipitation Forecast

GFS D2/24/25 12UTC 384HR FCST VALID WED 03/12/25 12UTC NOAA/NWS/NCEP



GFS WED 250312/1200V384 ENSL (4MB). 384HR ACCUMULATED PRECIP (IN)
 Date Range: Feb 24 - Mar 12, 2025
 Forecasted Cumulative (inches): **4.70**

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.