



State Water Resources Control Board  
 Temporary Urgency Change Orders (10/31/2024)  
 Russian River Hydrologic & Water Quality Report  
 February 21, 2025 - February 27, 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).

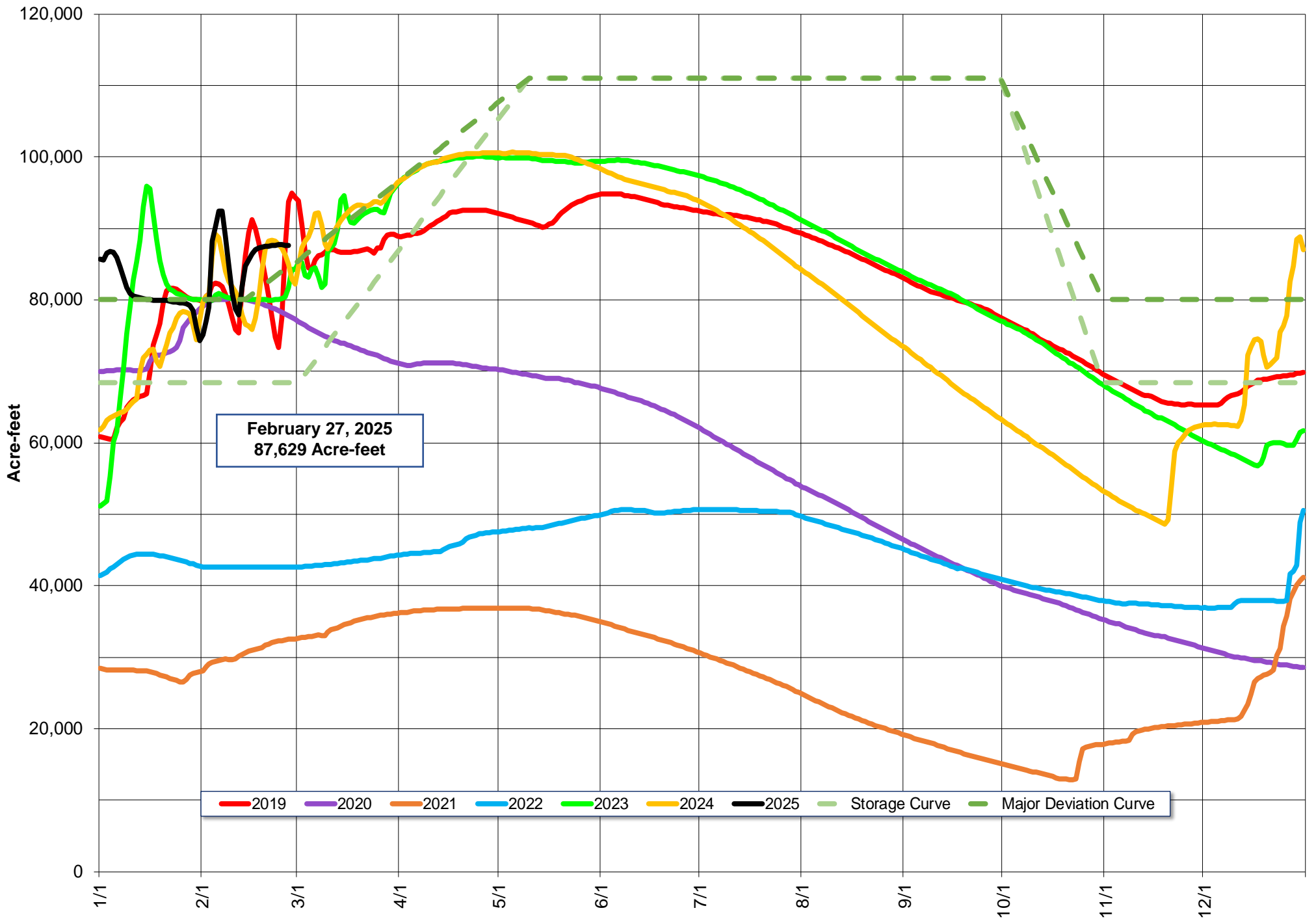
**Instream Flow Requirements as of February 27, 2025**

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

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**



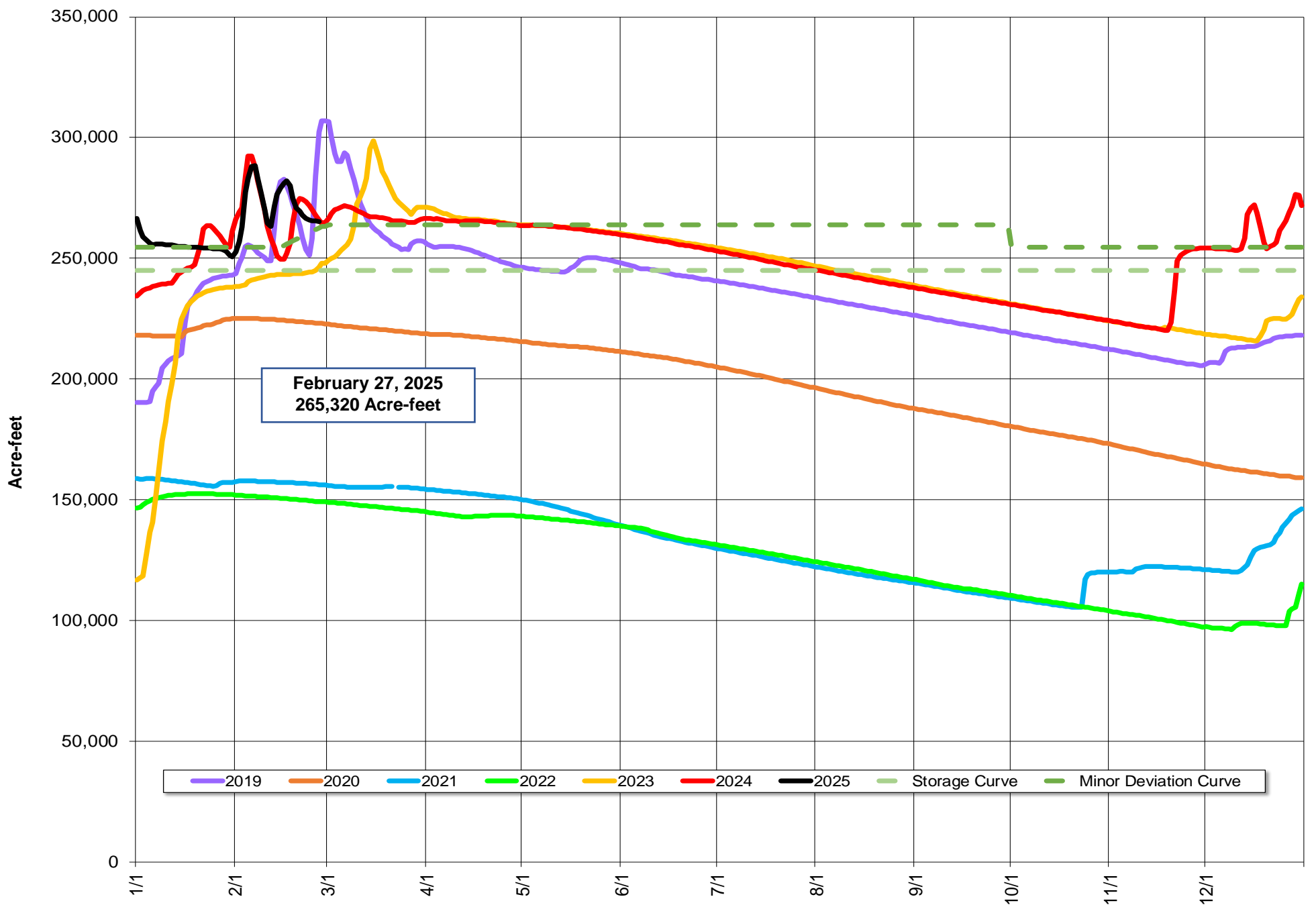
Storage (acre-feet)	February 27, 2025	<b>87,629</b>	
Change in Storage (acre-feet)	Last 30 days	<b>8,385</b>	<b>280</b>
	Last 7 days	<b>105</b>	<b>15</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>171</b>
		Max	<b>302</b>
		Mean	<b>222</b>
Release (cfs)	Last 7 days	Min	<b>182</b>
		Max	<b>270</b>
		Mean	<b>205</b>

# Lake Sonoma



Todd Schram, February 10, 2024

## Lake Sonoma Storage 2019-2025



Storage (acre-feet)	February 27, 2025	<b>265,320</b>	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	<b>11,736</b>	<b>391</b>
	Last 7 days	<b>-4,086</b>	<b>-584</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>269</b>
		Max	<b>323</b>
		Mean	<b>292</b>
Release (cfs)	Last 7 days	Min	<b>350</b>
		Max	<b>999</b>
		Mean	<b>678</b>

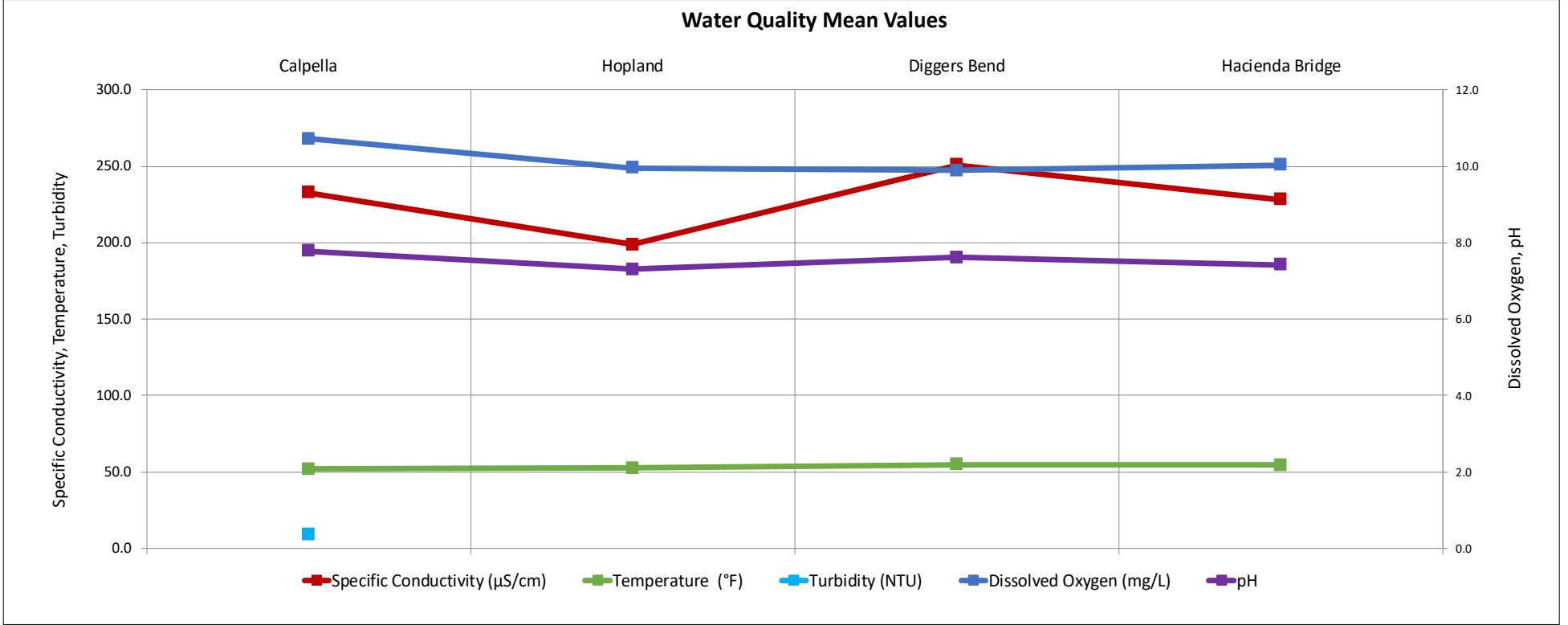


## Russian River Flows (February 21, 2025 - February 27, 2025)

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	47.8	49.8		51.4	51.8		52.3	
	Max	54.9	54.3		56.5	56.3		56.3	
	Mean	51.8	52.5		54.4	54.7		54.5	
Specific Conductivity (µS/cm)	Min	223.0	181.0			227.0		184.0	
	Max	241.0	208.0			266.0		255.0	
	Mean	232.8	198.9			250.9		228.3	
Dissolved Oxygen (mg/L)	Min	10.3	9.7			9.7		9.7	
	Max	11.2	10.4			10.2		10.5	
	Mean	10.7	10.0			9.9		10.0	
Dissolved Oxygen (% Saturation)	Min	95.0	89.5			90.9		91.5	
	Max	99.0	92.7			96.6		96.7	
	Mean	97.1	91.0			93.0		94.1	
pH	Min	7.6	7.3			7.6		7.3	
	Max	7.8	7.4			7.7		7.5	
	Mean	7.8	7.3			7.6		7.4	
Turbidity (NTU)	Min	6.0							
	Max	13.7							
	Mean	8.9							

\*Station operated seasonally

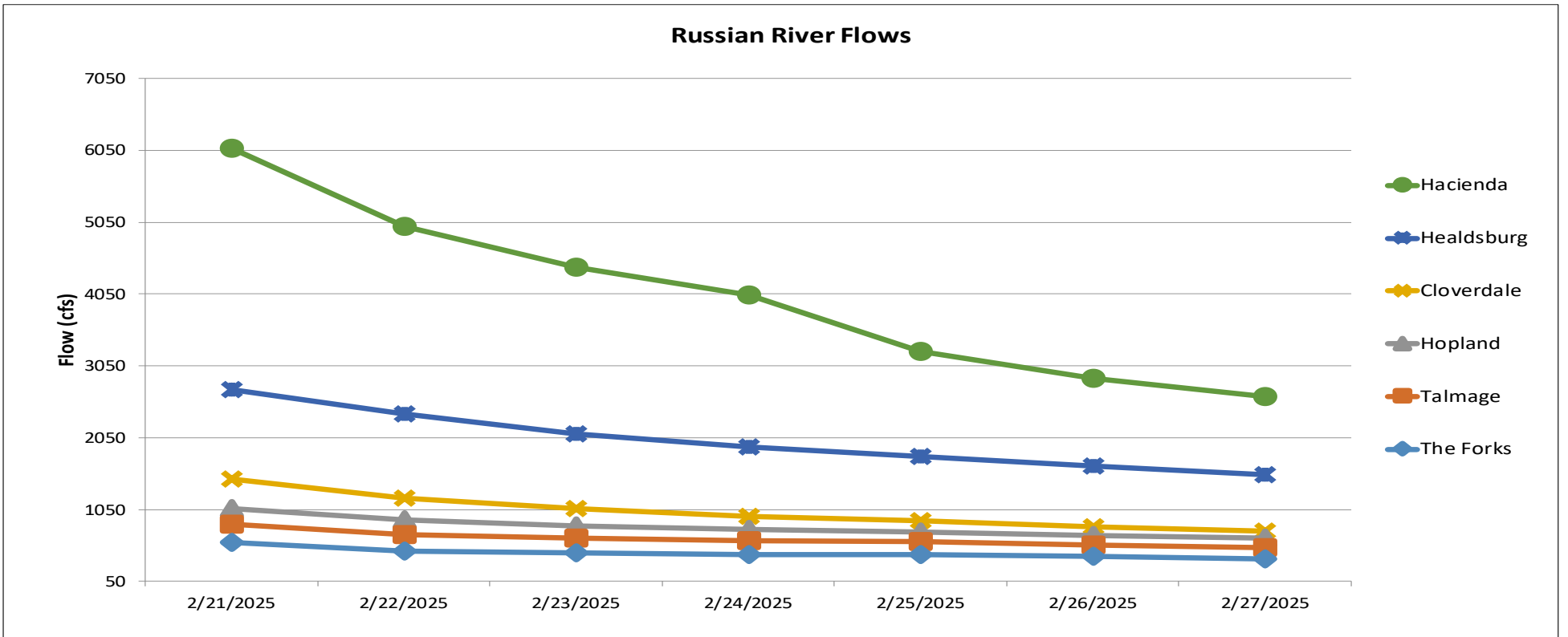
### Water Quality Mean Values



Gage	24-hr Average Flow (cfs)						
	Feb 21, 2025	Feb 22, 2025	Feb 23, 2025	Feb 24, 2025	Feb 25, 2025	Feb 26, 2025	Feb 27, 2025
The Forks*	595	471	450	425	418	402	366
Talmage USGS 11462080	846	706	650	620	598	558	524
Hopland USGS 11462500	1061	900	823	771	732	688	651
Cloverdale USGS 11463000	1476	1209	1059	960	888	808	746
Healdsburg USGS 11464000	2713	2384	2108	1921	1792	1659	1539
Hacienda USGS 11467000	6080	4986	4422	4037	3256	2871	2623

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

### Russian River Flows

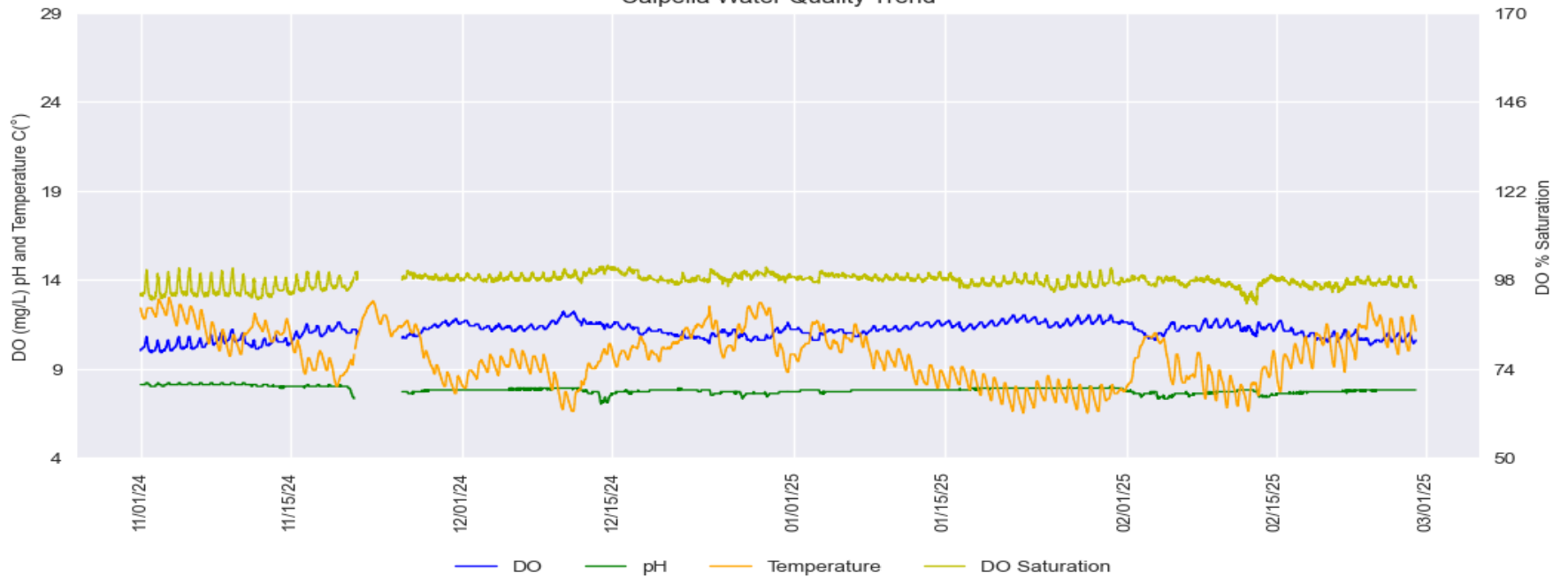


Russian River Water Quality November 1, 2024 – February 27, 2025

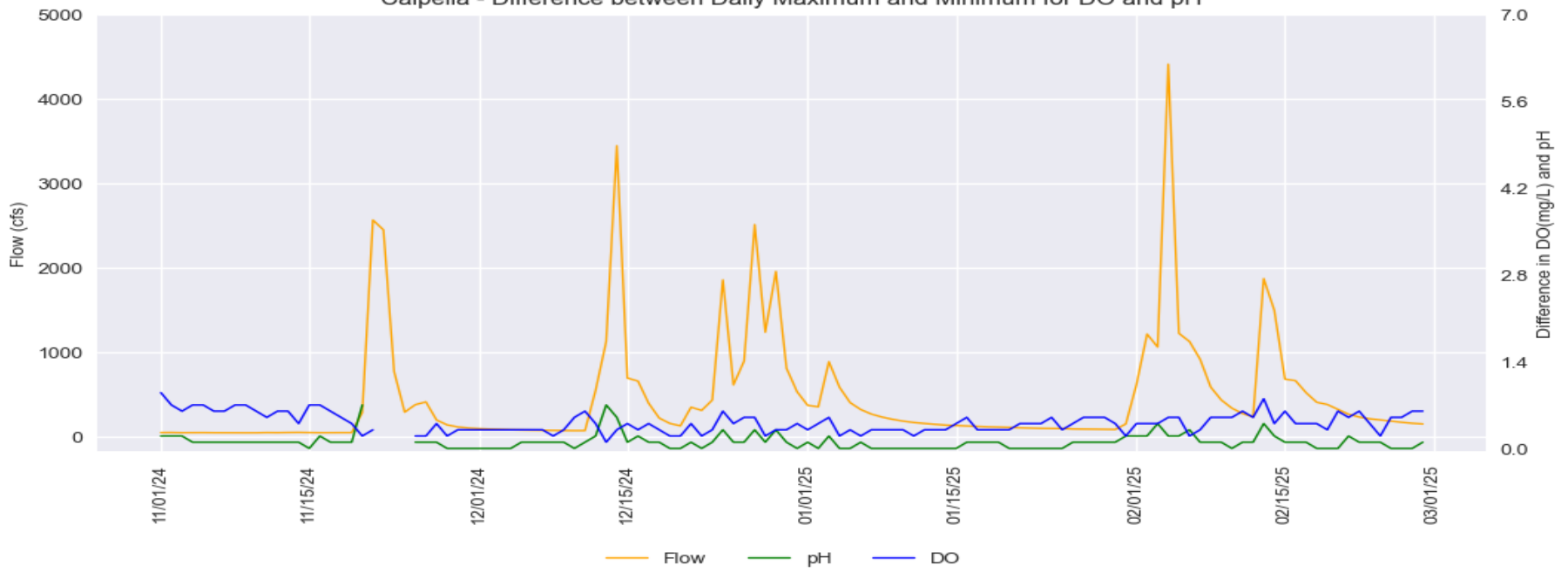
Provisional Data Subject to Revision

Calpella

Calpella Water Quality Trend

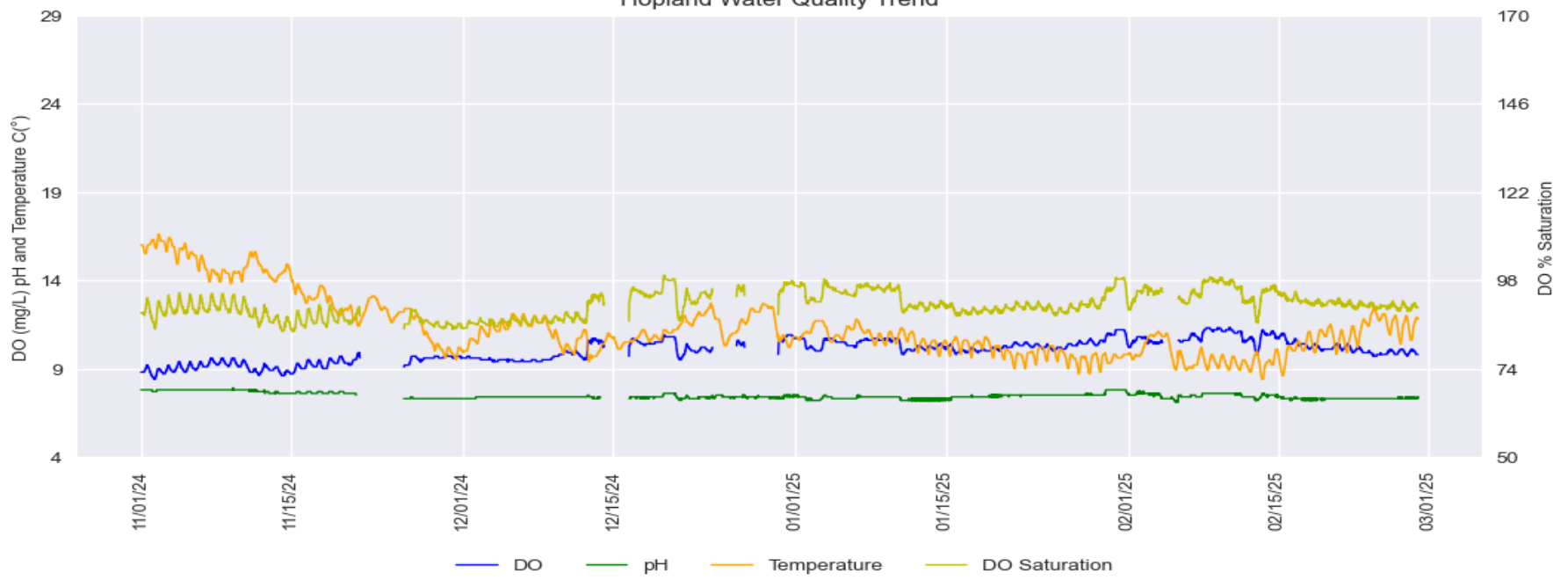


Calpella - Difference between Daily Maximum and Minimum for DO and pH

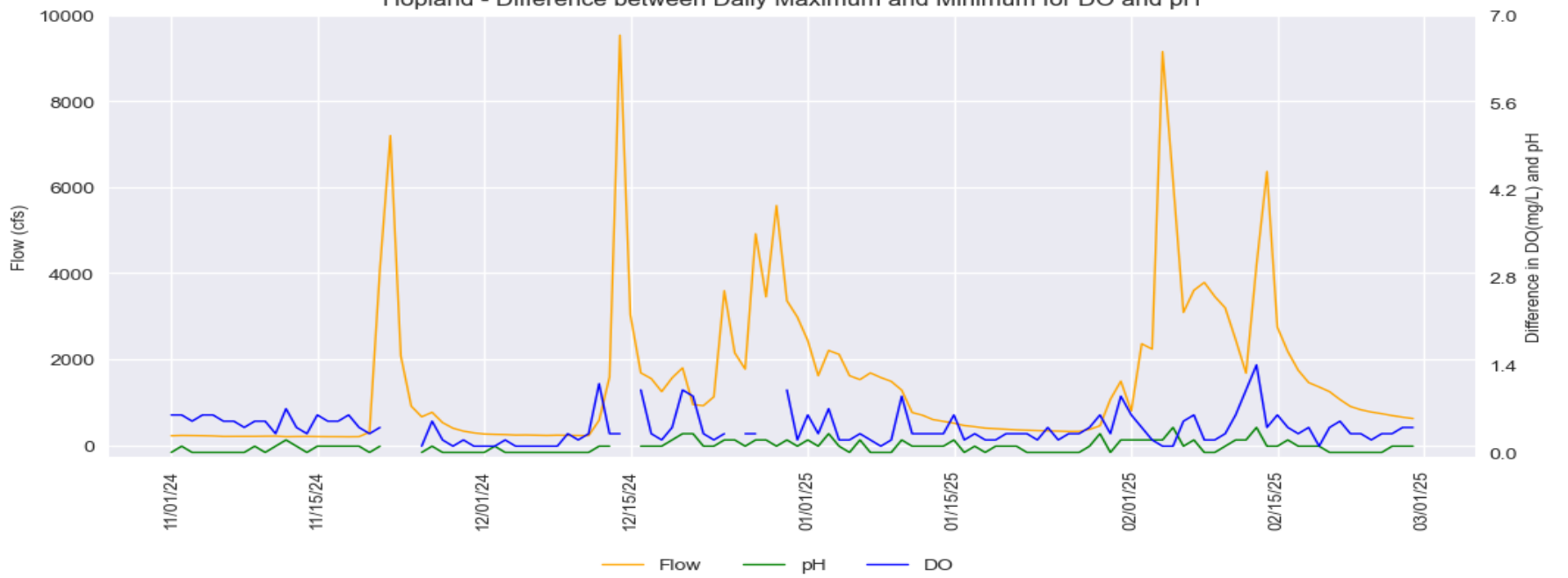


Hopland

Hopland Water Quality Trend



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

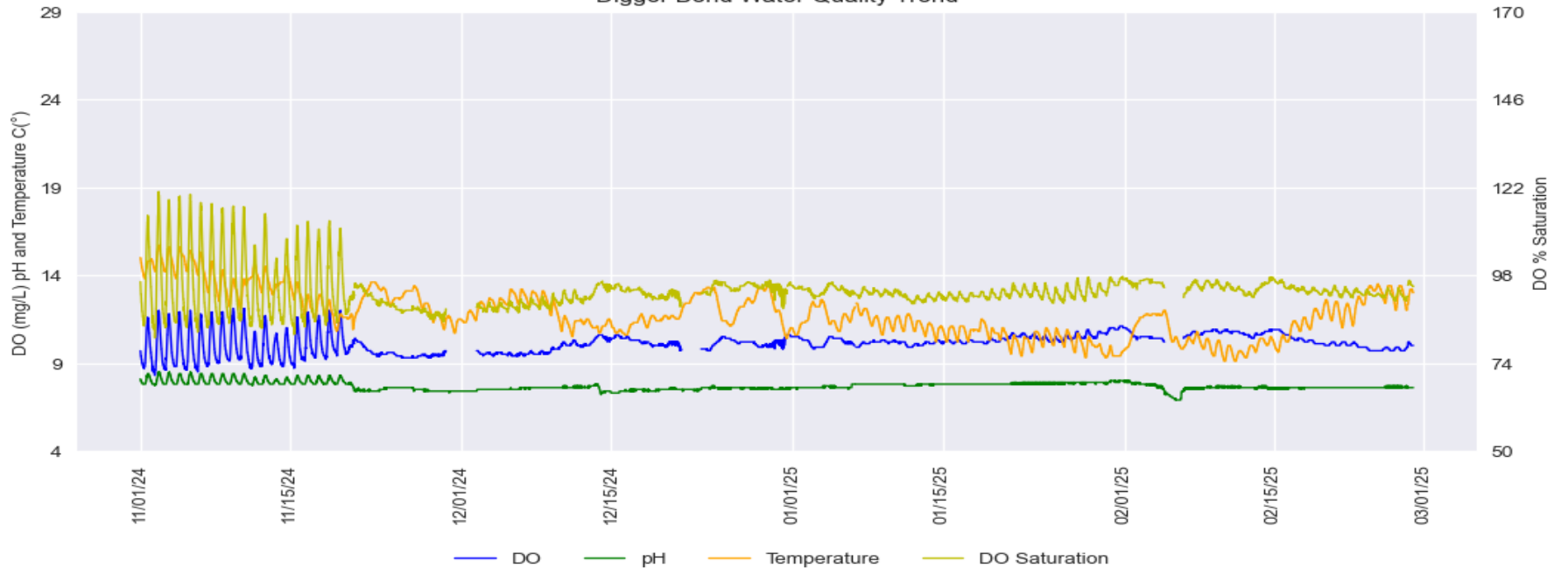


# Russian River Water Quality November 1, 2024 – February 27, 2025

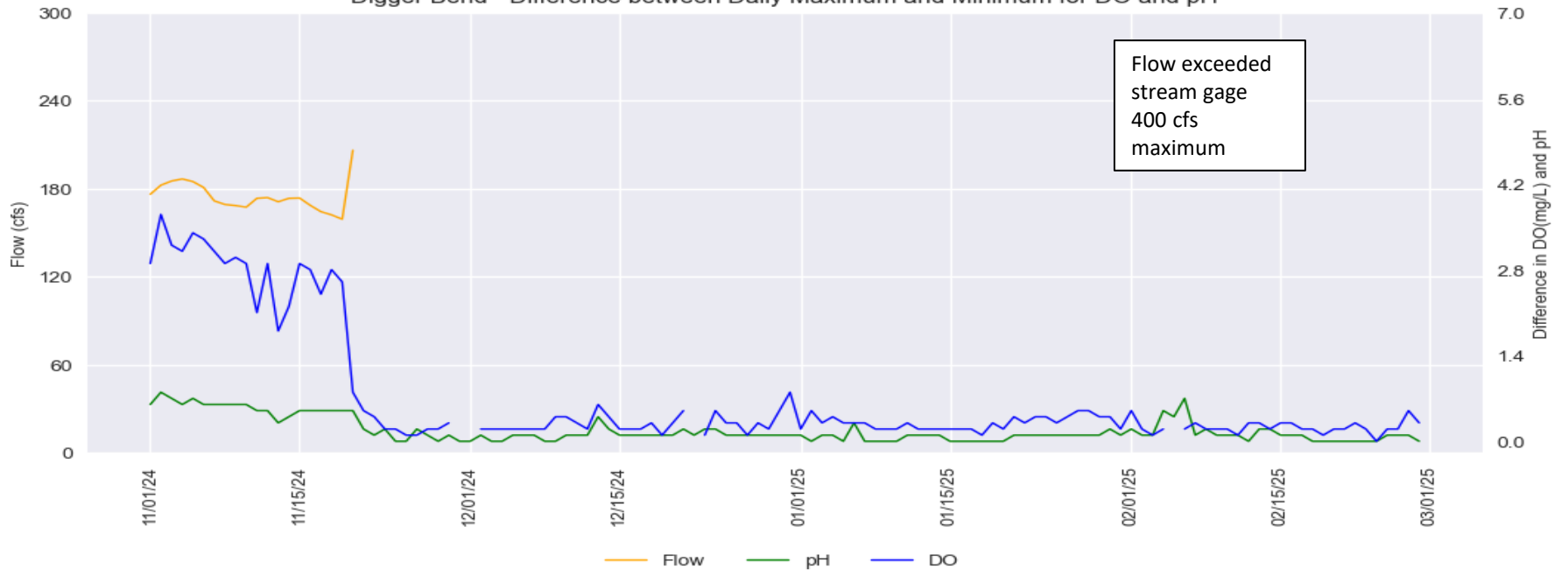
Provisional Data Subject to Revision

## Digger Bend

### Digger Bend Water Quality Trend

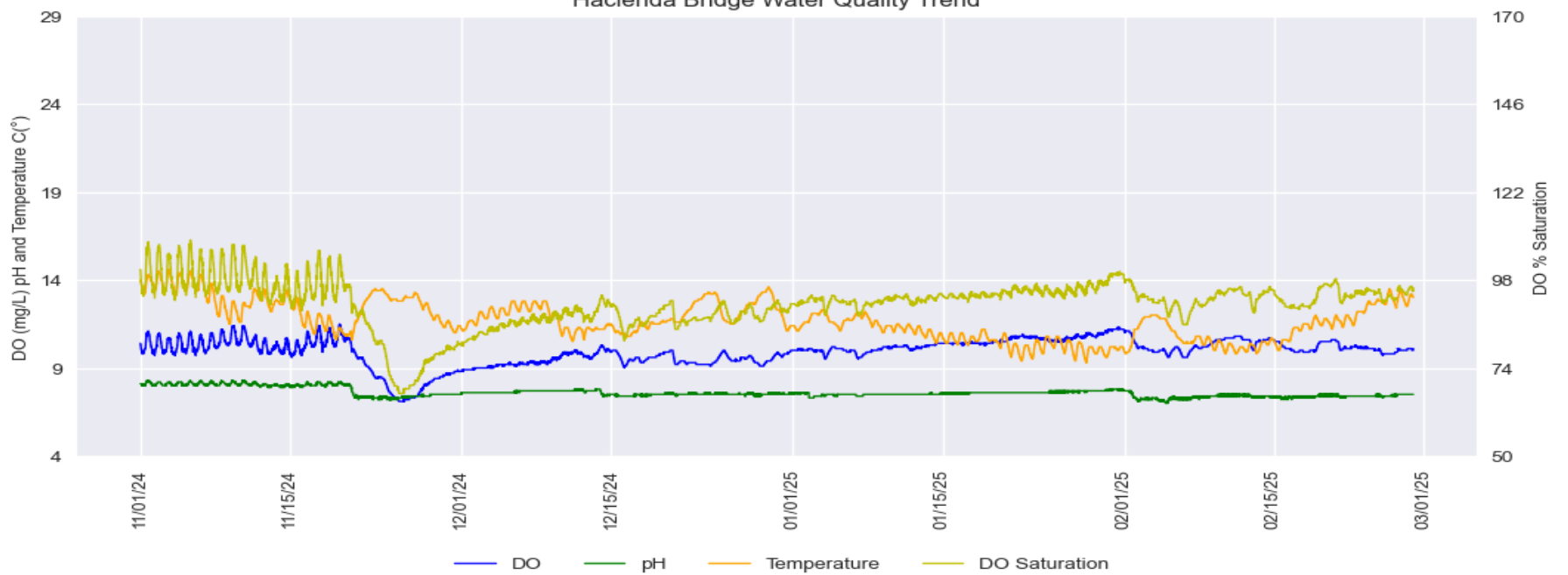


### Digger Bend - Difference between Daily Maximum and Minimum for DO and pH

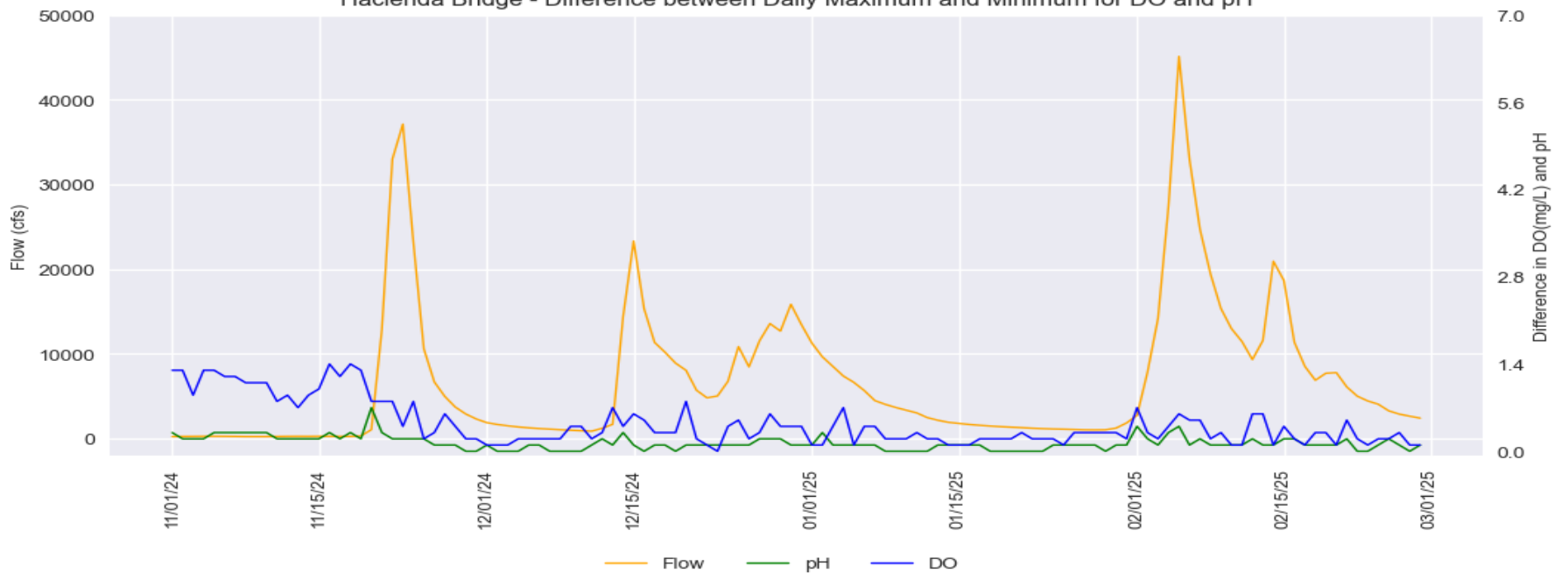


## Hacienda Bridge

### Hacienda Bridge Water Quality Trend



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

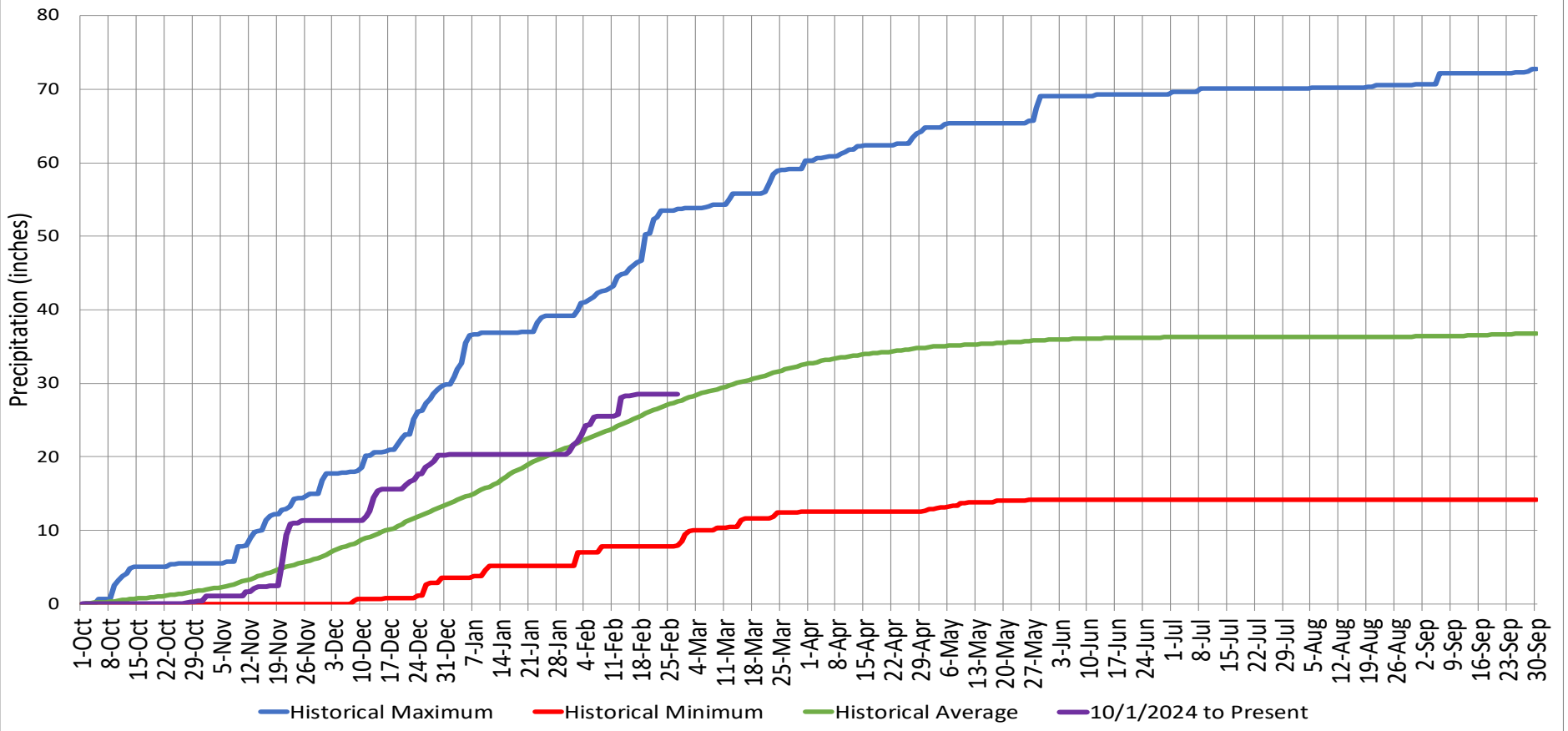


# Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

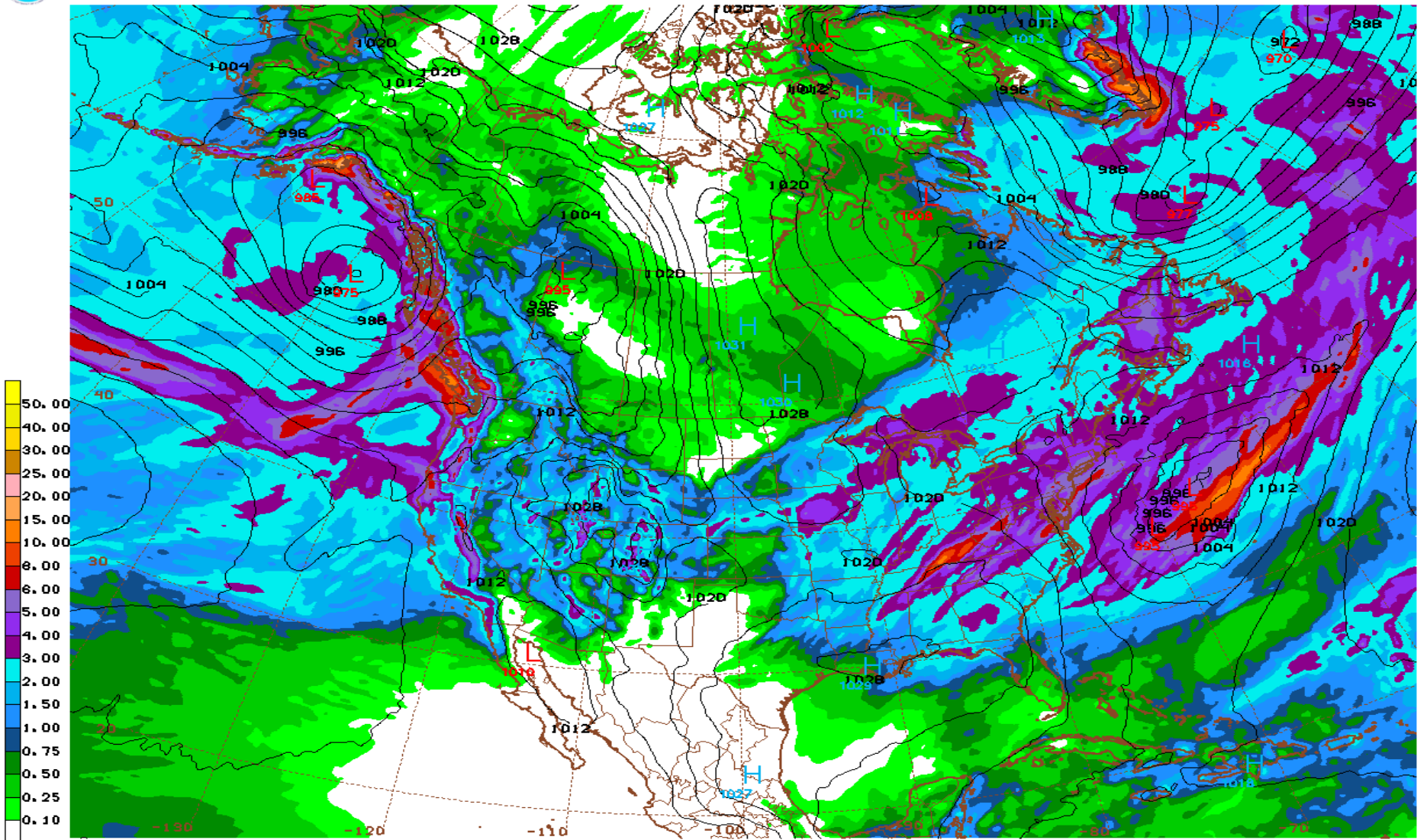
Date Range	Cumulative (inches)
Oct 1, 2024 - Feb 27, 2025	<b>28.57</b>
Last 7 Days*	<b>0.04</b>

Cumulative Precipitation Comparison of Current Year versus Historic Record



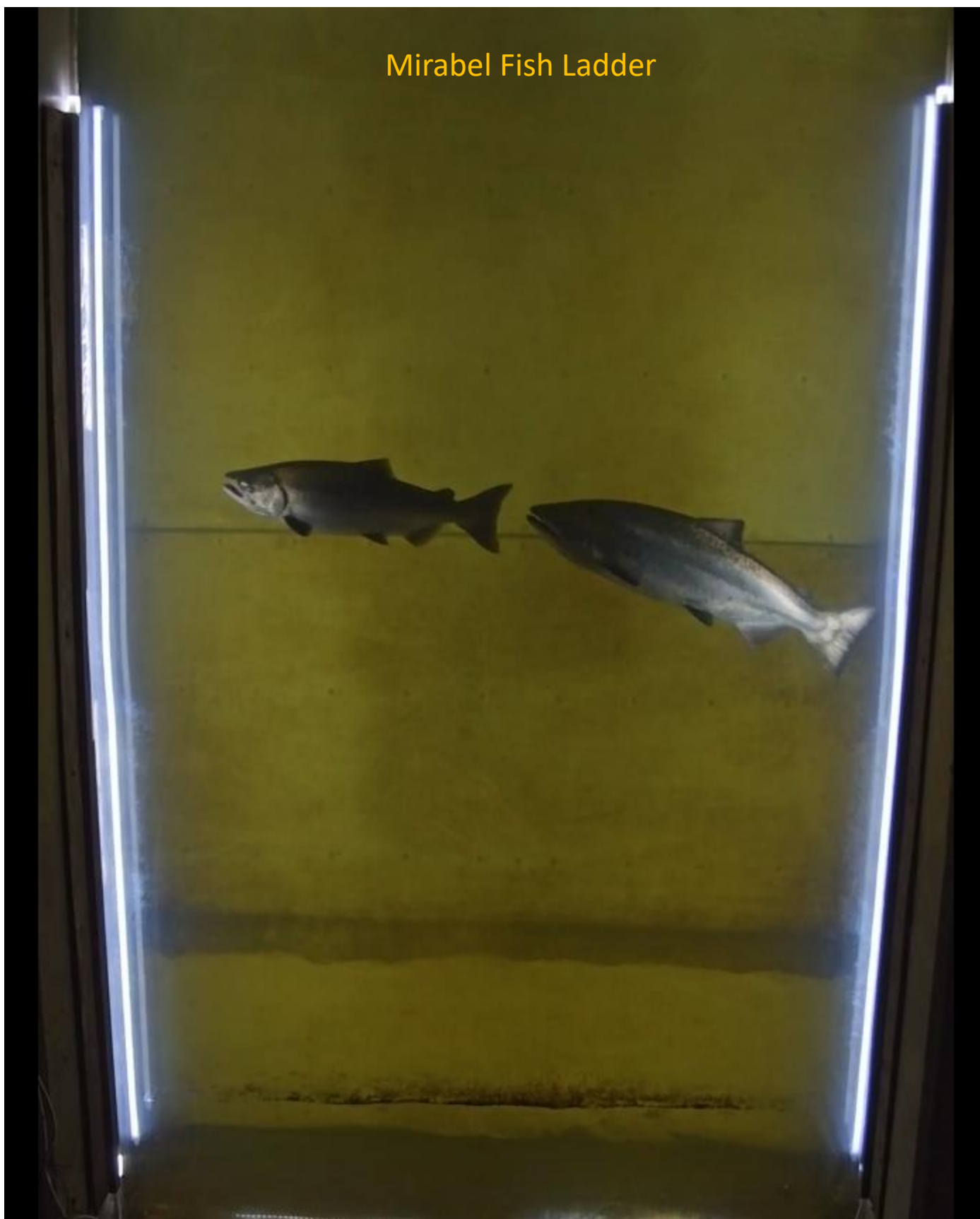
## Global Forecast System Model 16-day Cumulative Precipitation Forecast

6FS 03/03/25 12UTC 384HR FCST VALID MED 03/19/25 12UTC NOAA/NWS/NCEP



6FS MED 250319/1200V384 ENSL (4MB). 384HR ACCUMULATED PRECIP (IN)  
 Date Range: Mar 3 - Mar 19, 2025  
 Forecasted Cumulative (inches): **1.92**

## 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.