



State Water Resources Control Board
 Temporary Urgency Change Orders (10/31/2024)
 Russian River Hydrologic & Water Quality Report
 December 20, 2024 - December 26, 2024

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).

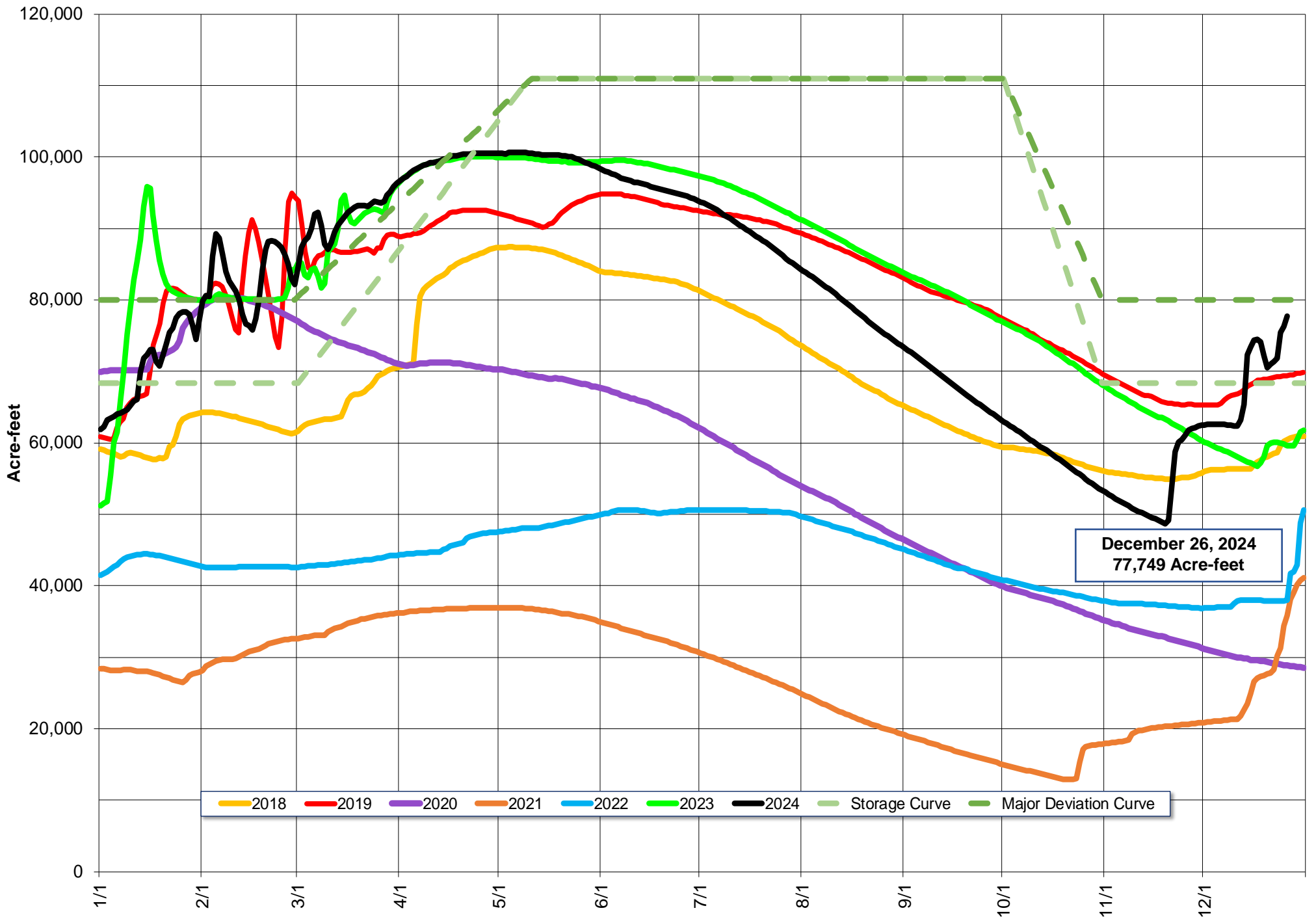
Instream Flow Requirements as of December 26, 2024

Basis	Reach	Instantaneous (cfs)	5-day Average (cfs)
Modified Per Order: Normal Condition	Upper Russian River	150	-
Modified Per Order: Normal Condition	Dry Creek	105	-
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 2018 - 2024 and Storage Curve



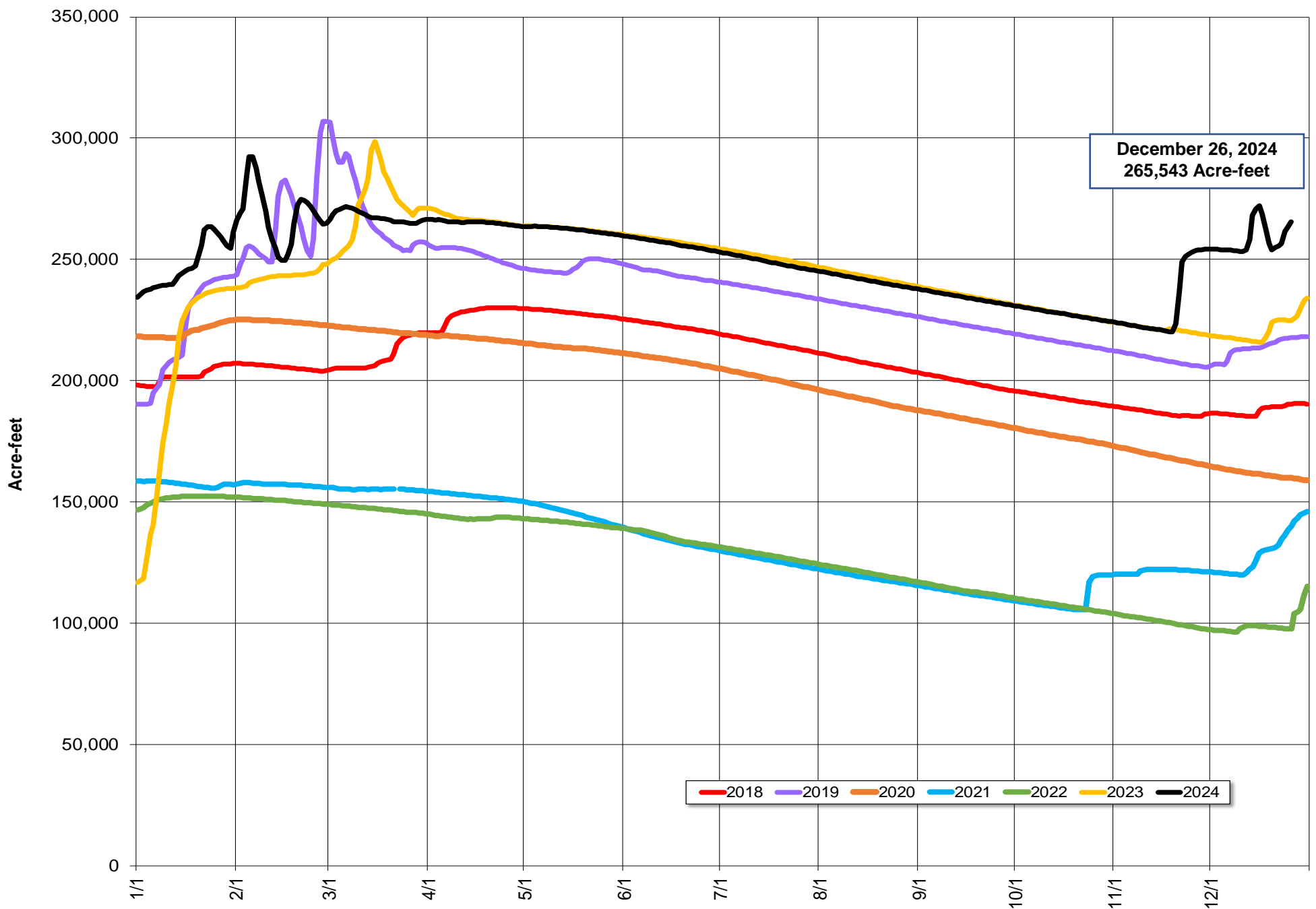
Storage (acre-feet)	December 26, 2024	77,749	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
	Last 7 days	16,030	534
Daily Inflow (cfs)	Last 7 days	7,201	1,029
		Min	131
		Max	1,960
Release (cfs)	Last 7 days	Mean	666
		Min	145
		Max	970
		Mean	265

Lake Sonoma



Todd Schram, February 10, 2024

Lake Sonoma Storage 2018-2024



Storage (acre-feet)	December 26, 2024	265,543	
Change in Storage (acre-feet)	Last 30 days	11,932	398
	Last 7 days	11,527	1,647
Daily Inflow (cfs)	Last 7 days	Min	435
		Max	2,682
		Mean	1,105
Release (cfs)	Last 7 days	Min	240
		Max	1,704
		Mean	454

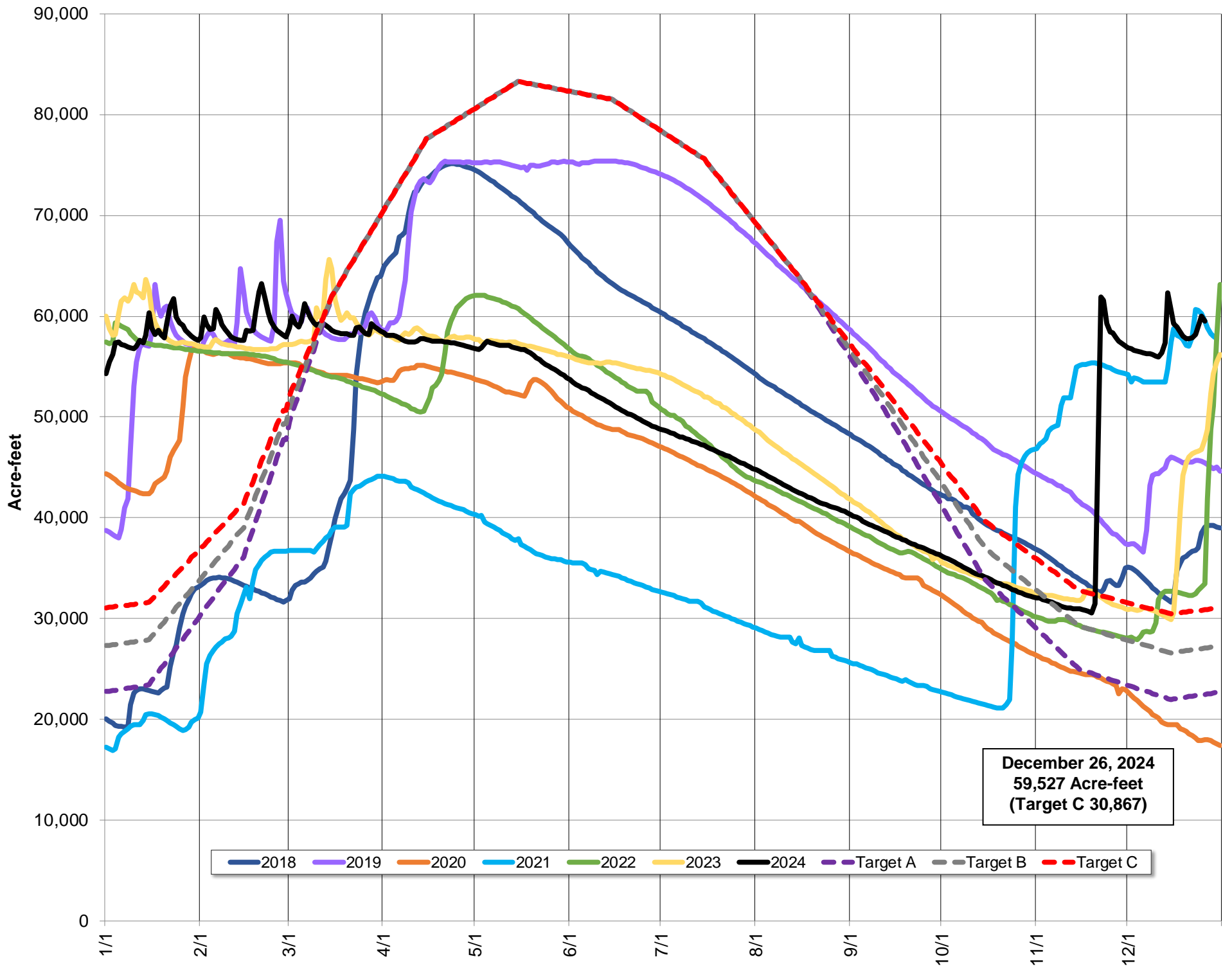
Potter Valley Project

PVP Diversion (cfs)	December 26, 2024	45
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2024 - December 26, 2024	144,080	1,656
	Last 7 days	26,878	3,840

*Inflow calculation based on criteria established in D1610

Lake Pillsbury Storage 2018 - 2024 and Target Storage Scenarios

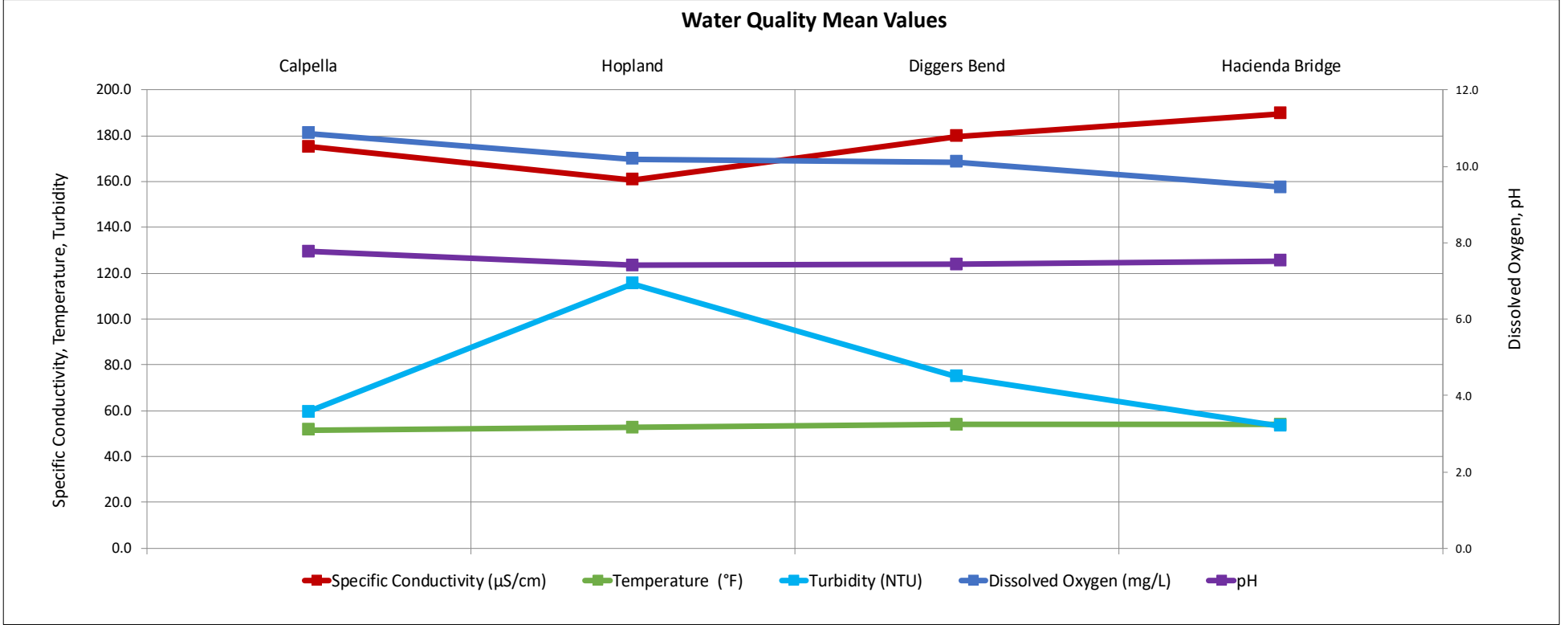


Russian River Flows (December 20, 2024 - December 26, 2024)

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	49.3	50.5		51.8	52.0		52.7	
	Max	54.5	54.9		55.8	55.9		55.9	
	Mean	51.5	52.7		53.7	54.0		54.1	
Specific Conductivity (µS/cm)	Min	99.0	98.0			128.0		138.0	
	Max	216.0	202.0			223.0		218.0	
	Mean	175.3	160.7			179.8		189.8	
Dissolved Oxygen (mg/L)	Min	10.4	9.5			9.7		9.1	
	Max	11.2	10.8			10.5		10.0	
	Mean	10.9	10.2			10.1		9.4	
Dissolved Oxygen (% Saturation)	Min	96.1	86.9			89.4		84.6	
	Max	100.9	98.4			96.6		92.3	
	Mean	98.2	93.8			93.9		88.1	
pH	Min	7.5	7.2			7.3		7.4	
	Max	7.9	7.6			7.6		7.6	
	Mean	7.8	7.4			7.4		7.5	
Turbidity (NTU)	Min	12.5	22.6			26.0		23.2	
	Max	884.0	1920.0			349.0		219.0	
	Mean	59.6	115.5			75.0		53.4	

*Station operated seasonally

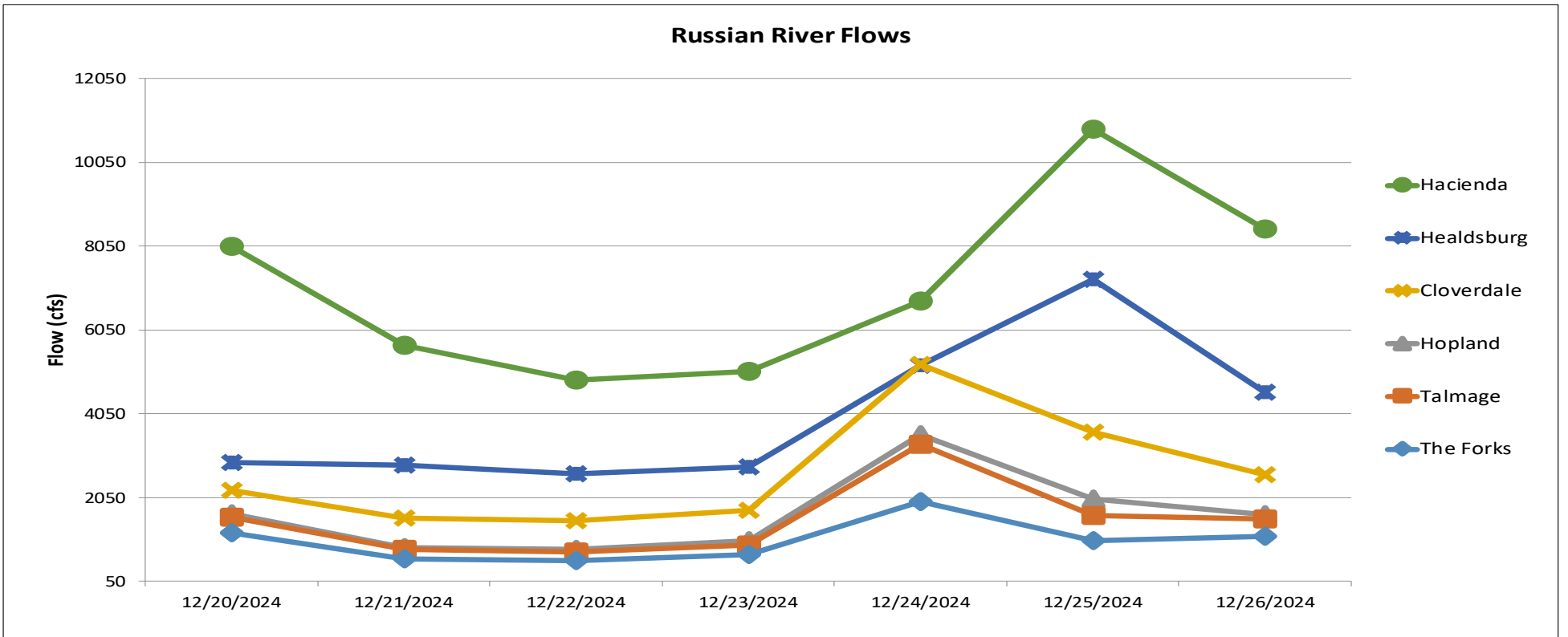
Water Quality Mean Values



Gage	24-hr Average Flow (cfs)						
	Dec 20, 2024	Dec 21, 2024	Dec 22, 2024	Dec 23, 2024	Dec 24, 2024	Dec 25, 2024	Dec 26, 2024
The Forks*	1210	587	550	684	1951	1014	1132
Talmage USGS 11462080	1585	810	758	915	3317	1620	1532
Hopland USGS 11462500	1668	845	823	1023	3556	2018	1650
Cloverdale USGS 11463000	2224	1553	1499	1739	5221	3609	2597
Healdsburg USGS 11464000	2879	2831	2621	2772	5209	7263	4561
Hacienda USGS 11467000	8038	5685	4861	5053	6750	10833	8450

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

Russian River Flows

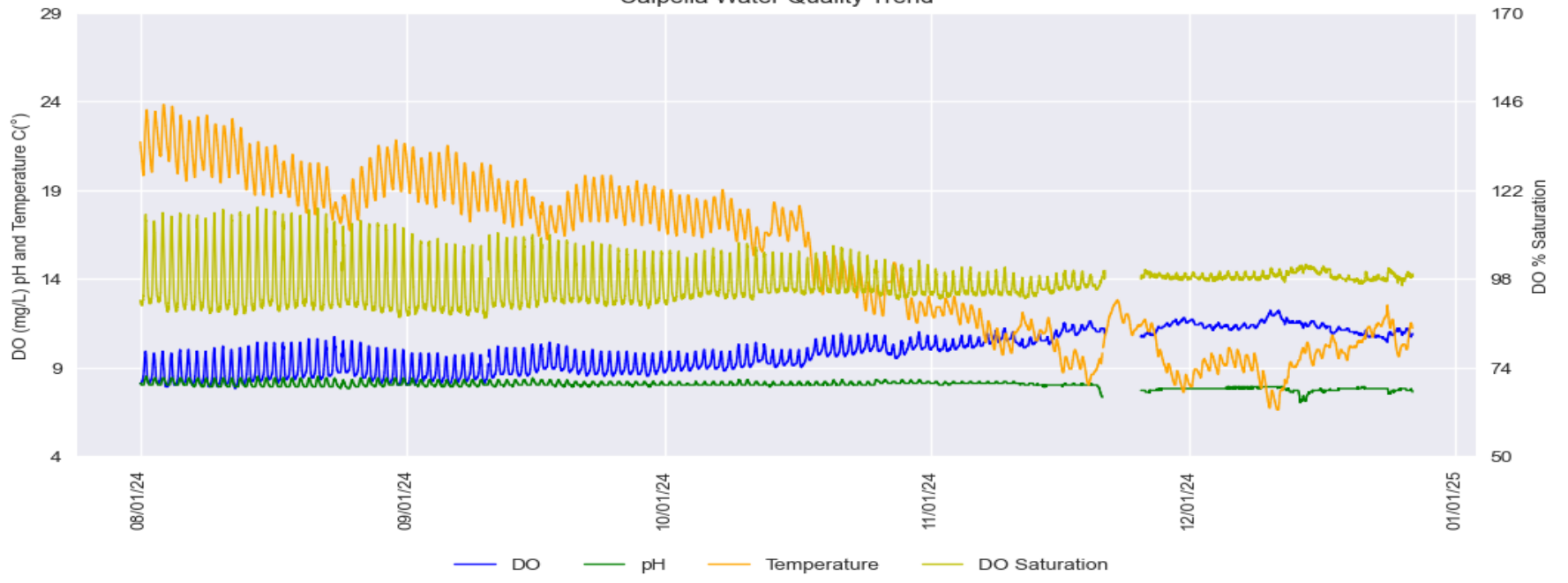


Russian River Water Quality August 1, 2024 – December 26, 2024

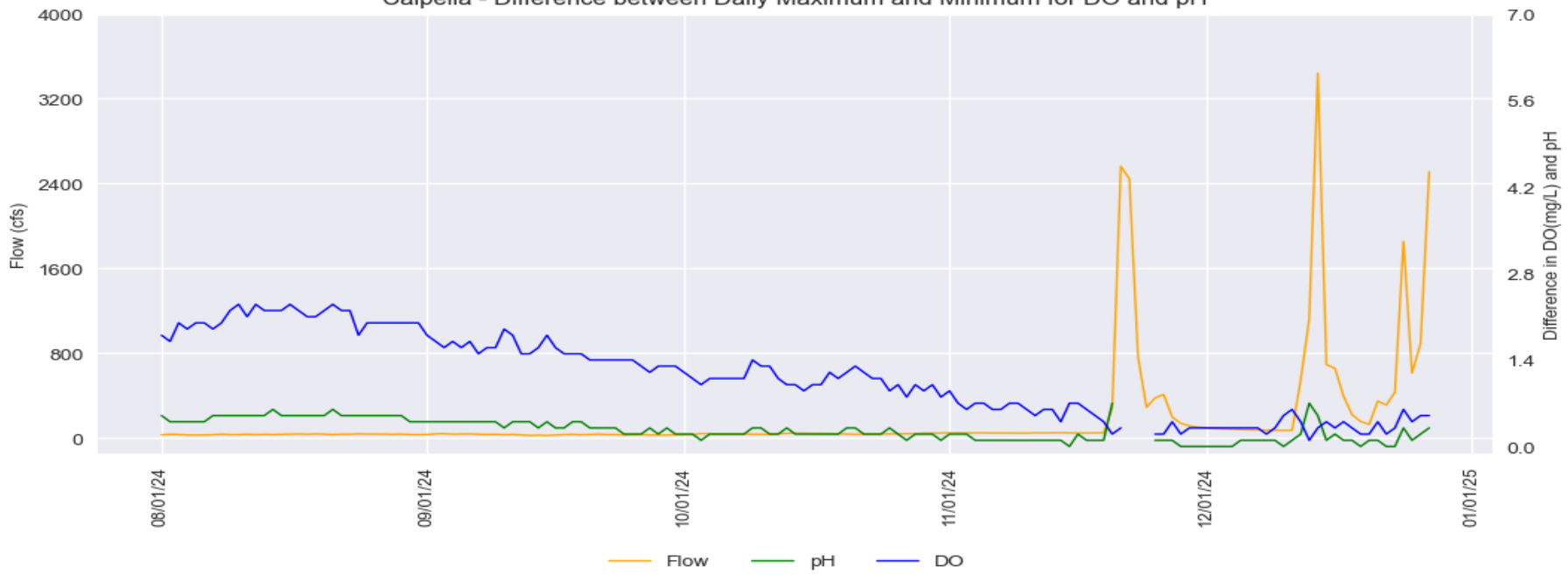
Provisional Data Subject to Revision

Calpella

Calpella Water Quality Trend

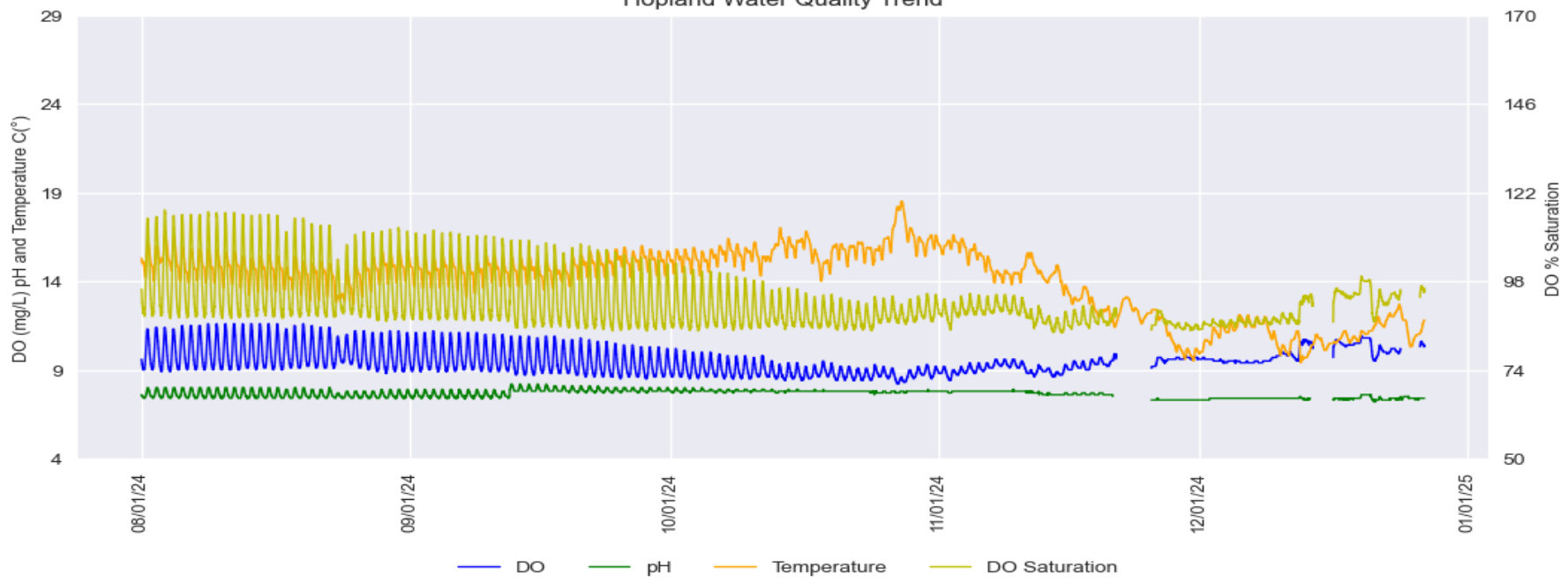


Calpella - Difference between Daily Maximum and Minimum for DO and pH

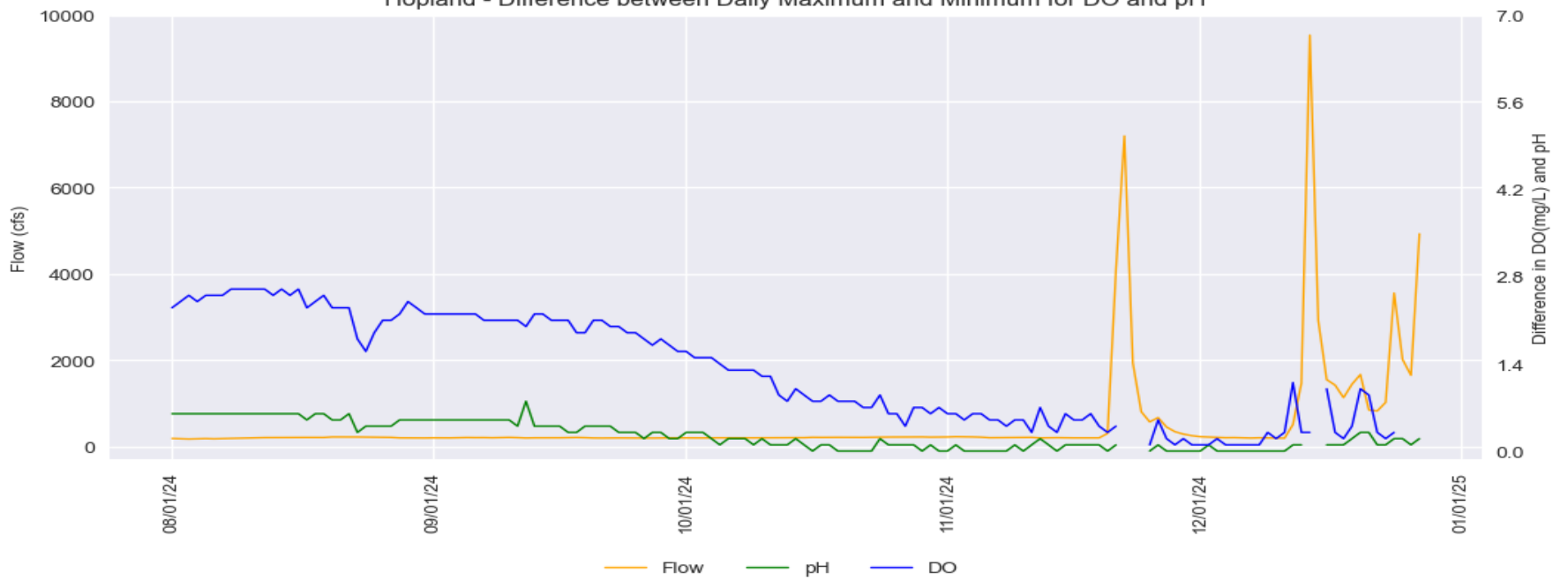


Hopland

Hopland Water Quality Trend



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

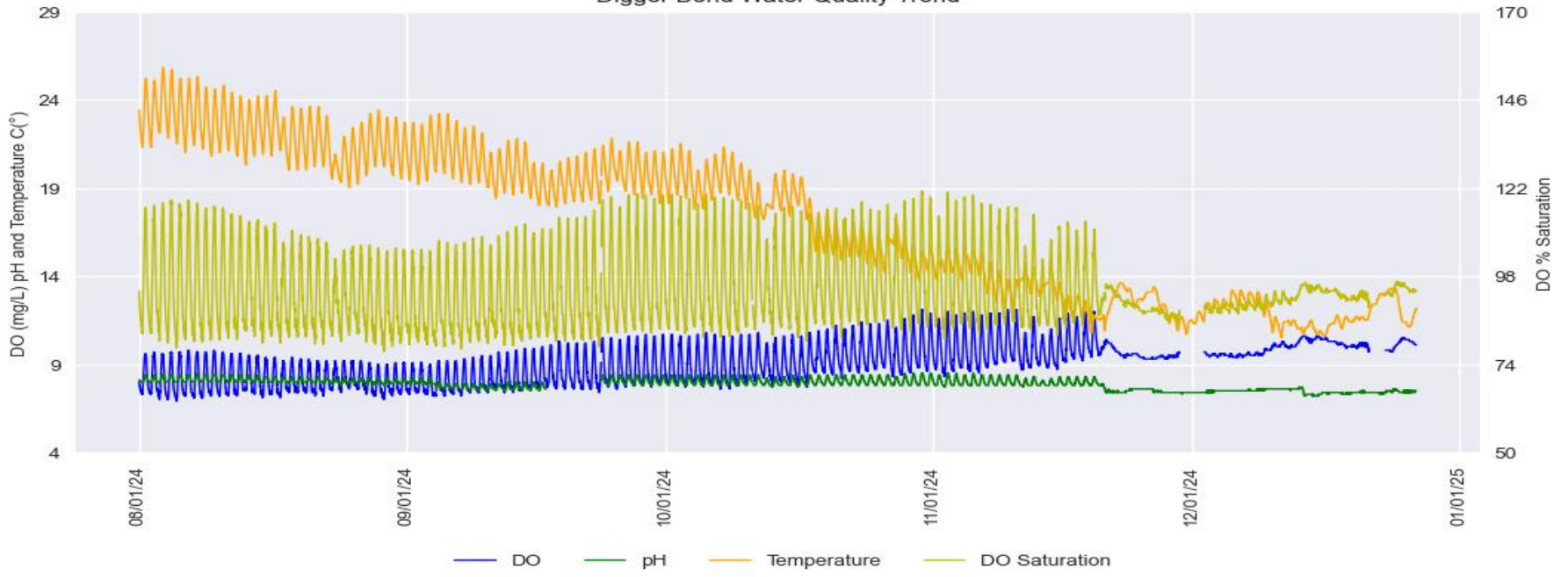


Russian River Water Quality August 1, 2024 – December 26, 2024

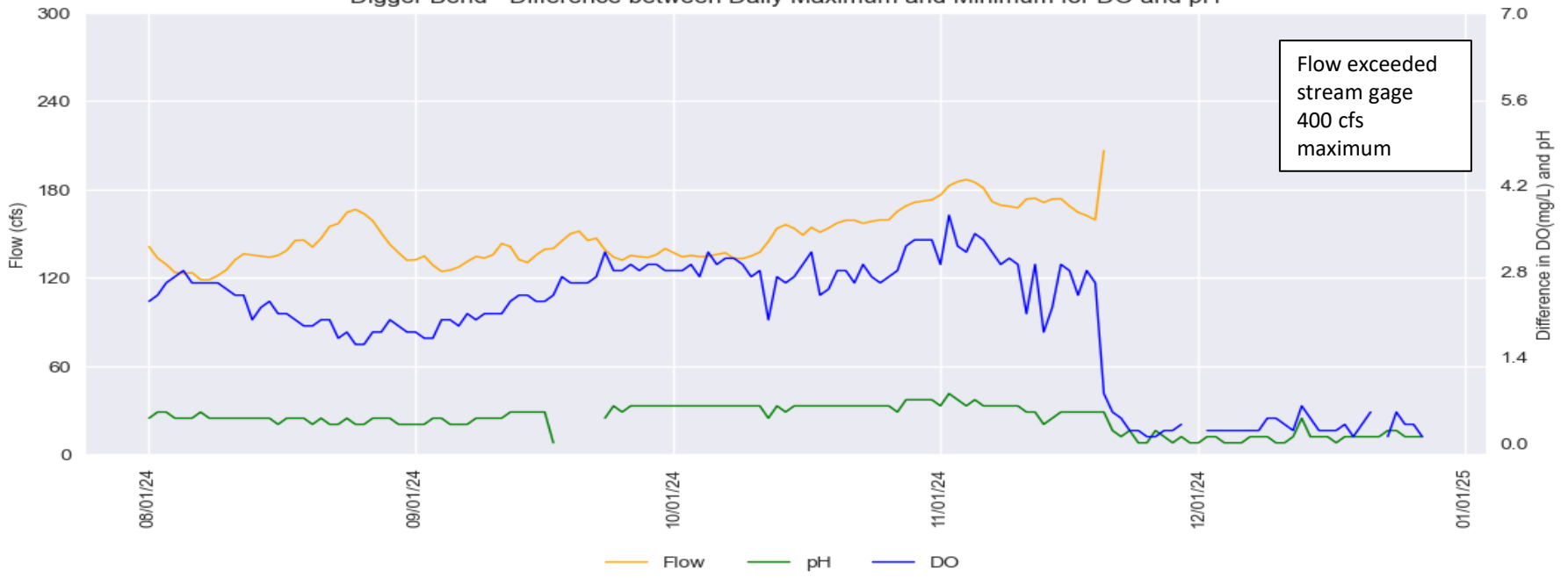
Provisional Data Subject to Revision

Digger Bend

Digger Bend Water Quality Trend

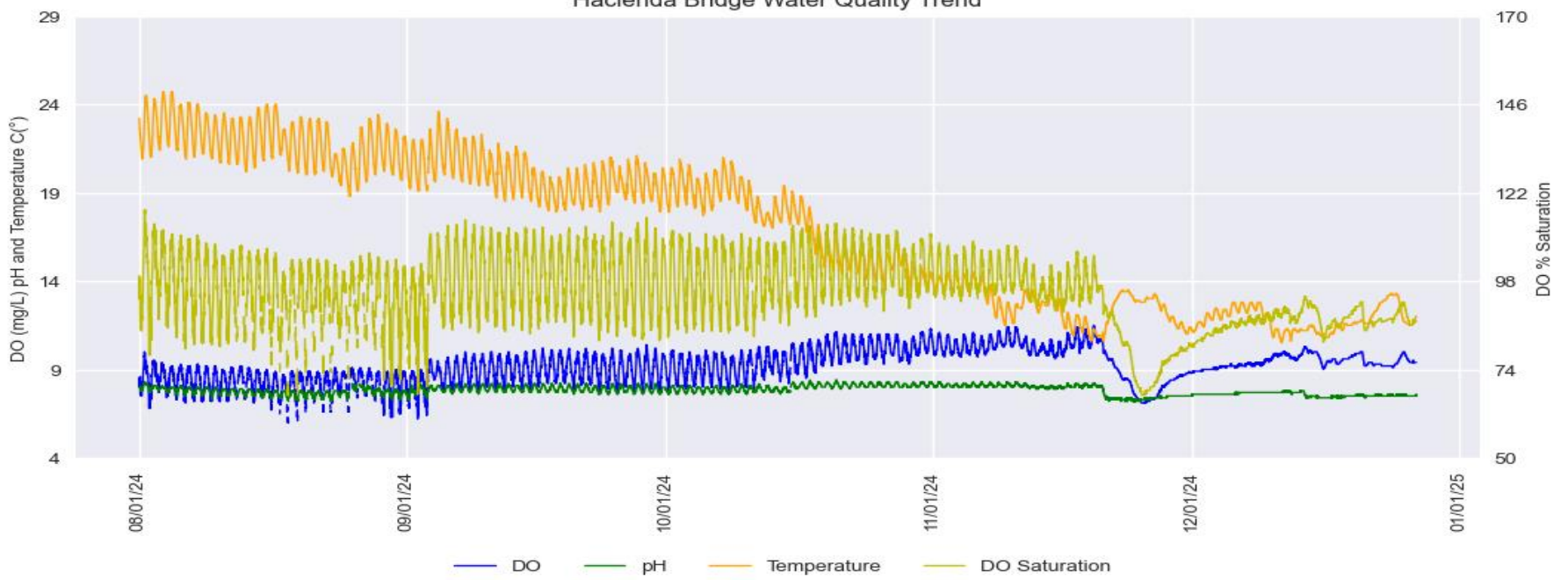


Digger Bend - Difference between Daily Maximum and Minimum for DO and pH

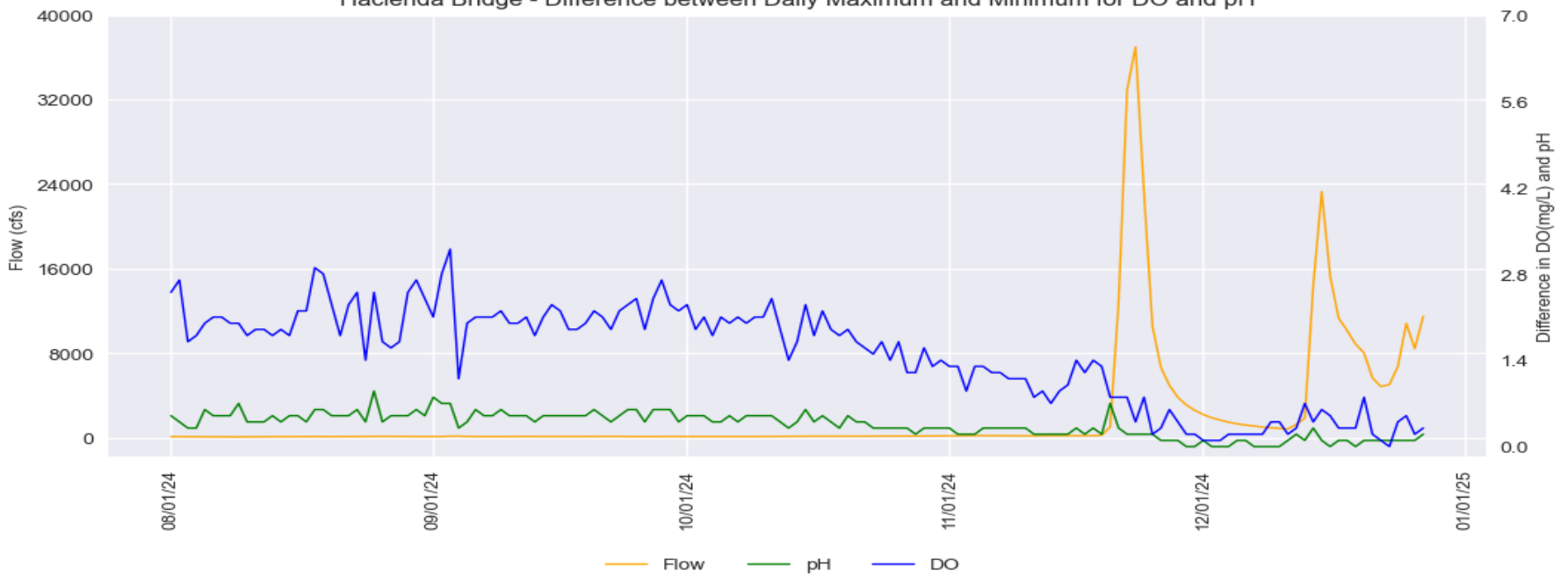


Hacienda Bridge

Hacienda Bridge Water Quality Trend



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

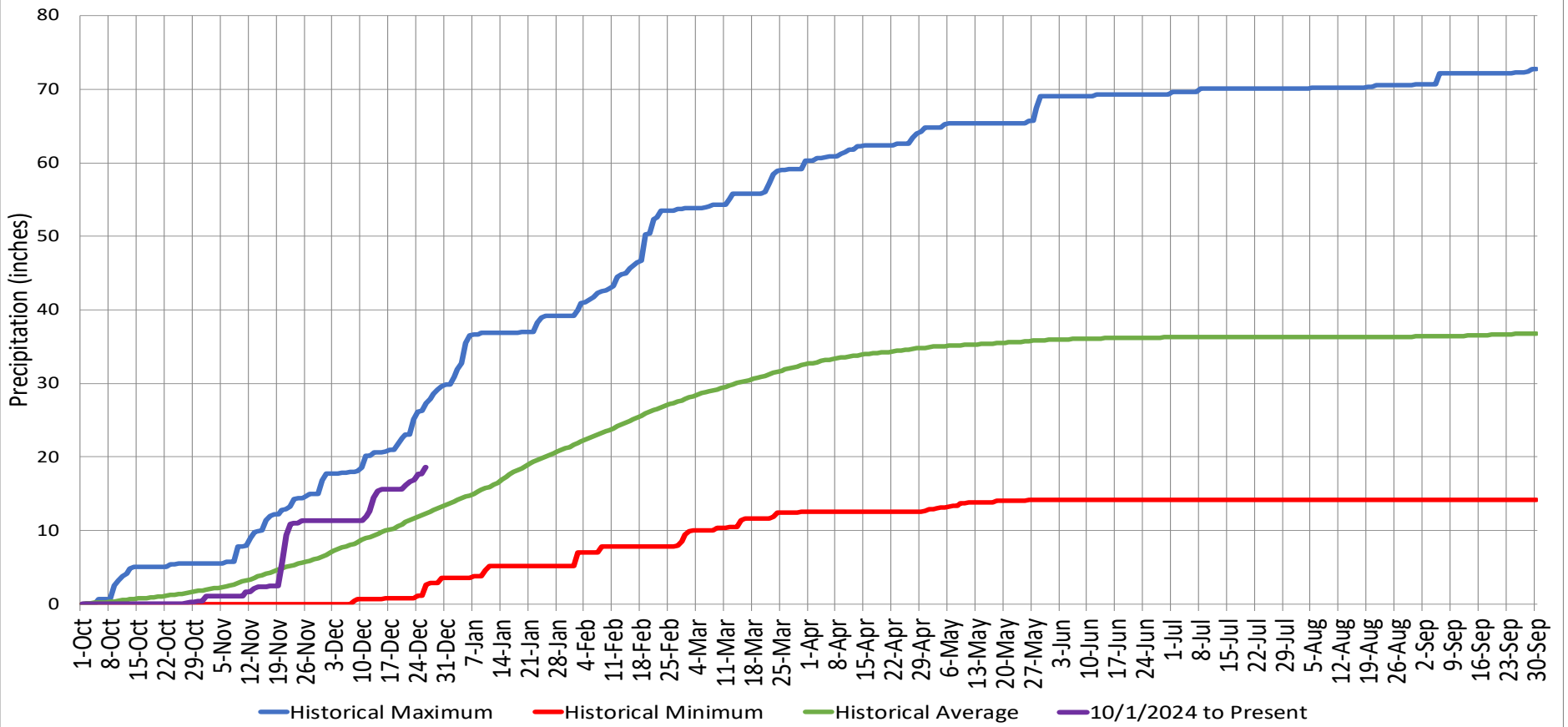


Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

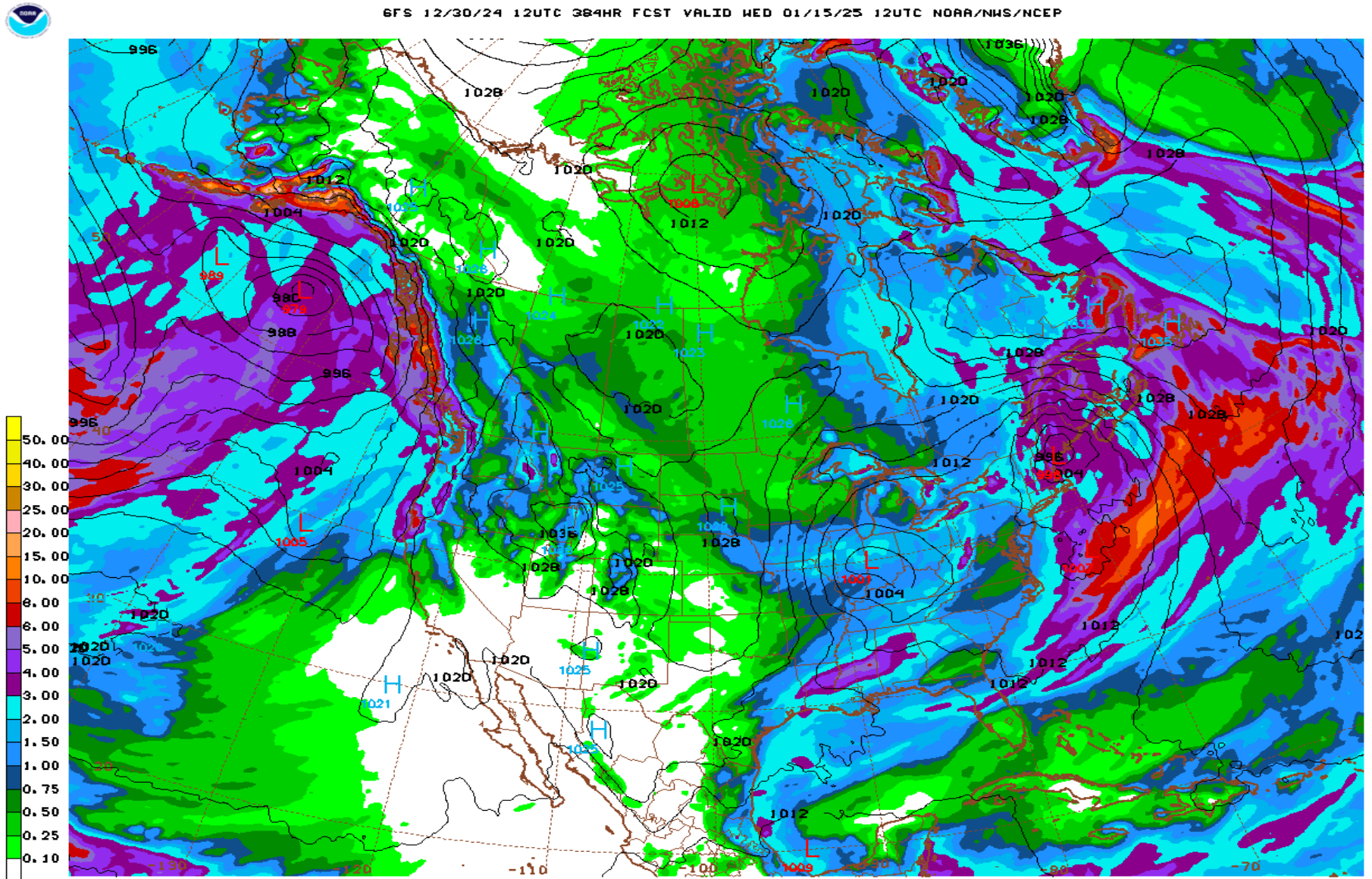
Date Range	Cumulative (inches)
Oct 1, 2024 - Dec 26, 2024	18.66
Last 7 Days*	3.00

Cumulative Precipitation Comparison of Current Year versus Historic Record



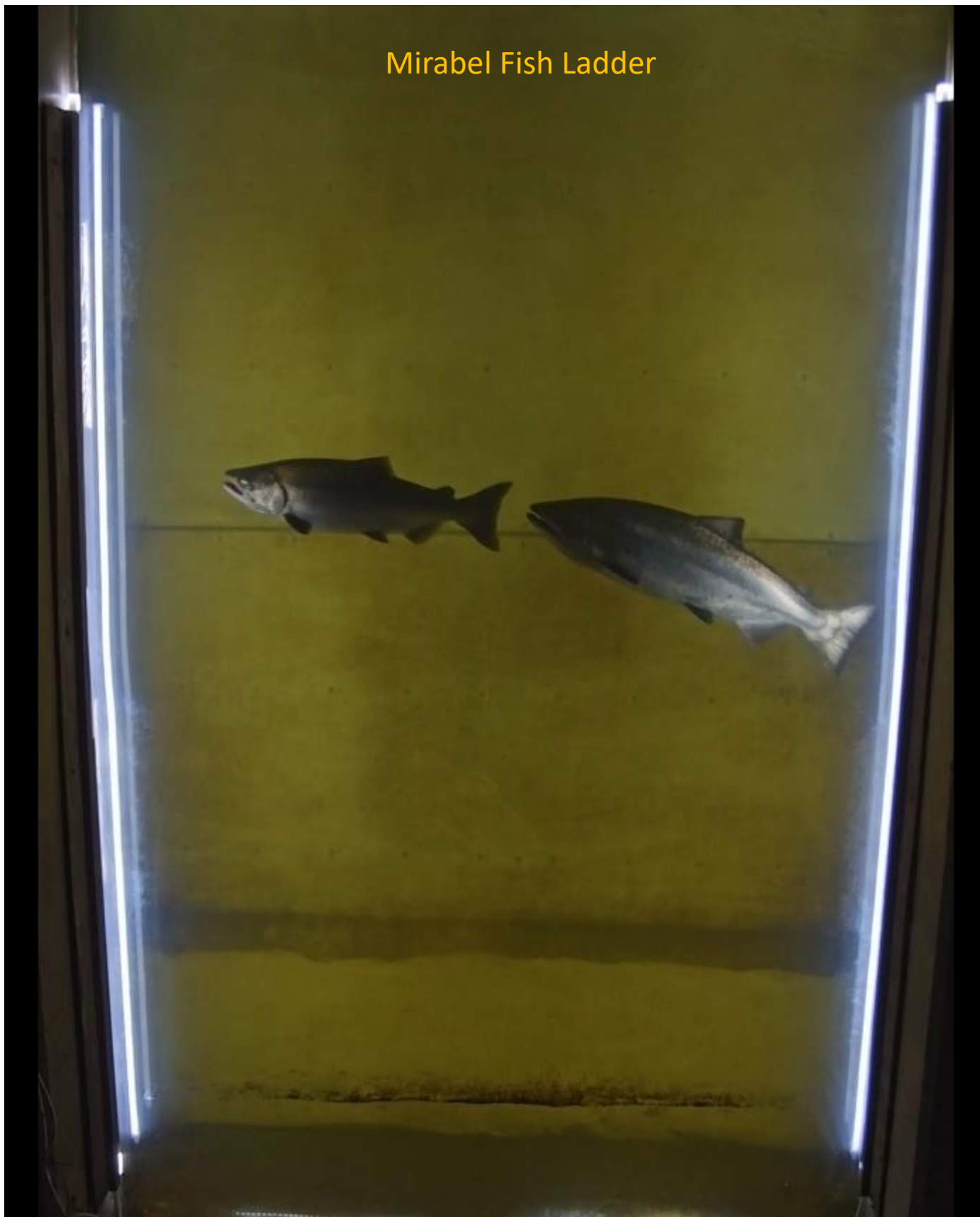
Global Forecast System Model 16-day Cumulative Precipitation Forecast

6FS 12/30/24 12UTC 384HR FCST VALID MED 01/15/25 12UTC NOAA/NWS/NCEP



6FS MED 250115/1200V384 ENSL (4MB), 384HR ACCUMULATED PRECIP (IN)
 Date Range: Dec 30 - Jan 15, 2025
 Forecasted Cumulative (inches): **0.42**

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.