



State Water Resources Control Board  
 Temporary Urgency Change Orders (10/31/2024)  
 Russian River Hydrologic & Water Quality Report  
 December 27, 2024 - January 2, 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).

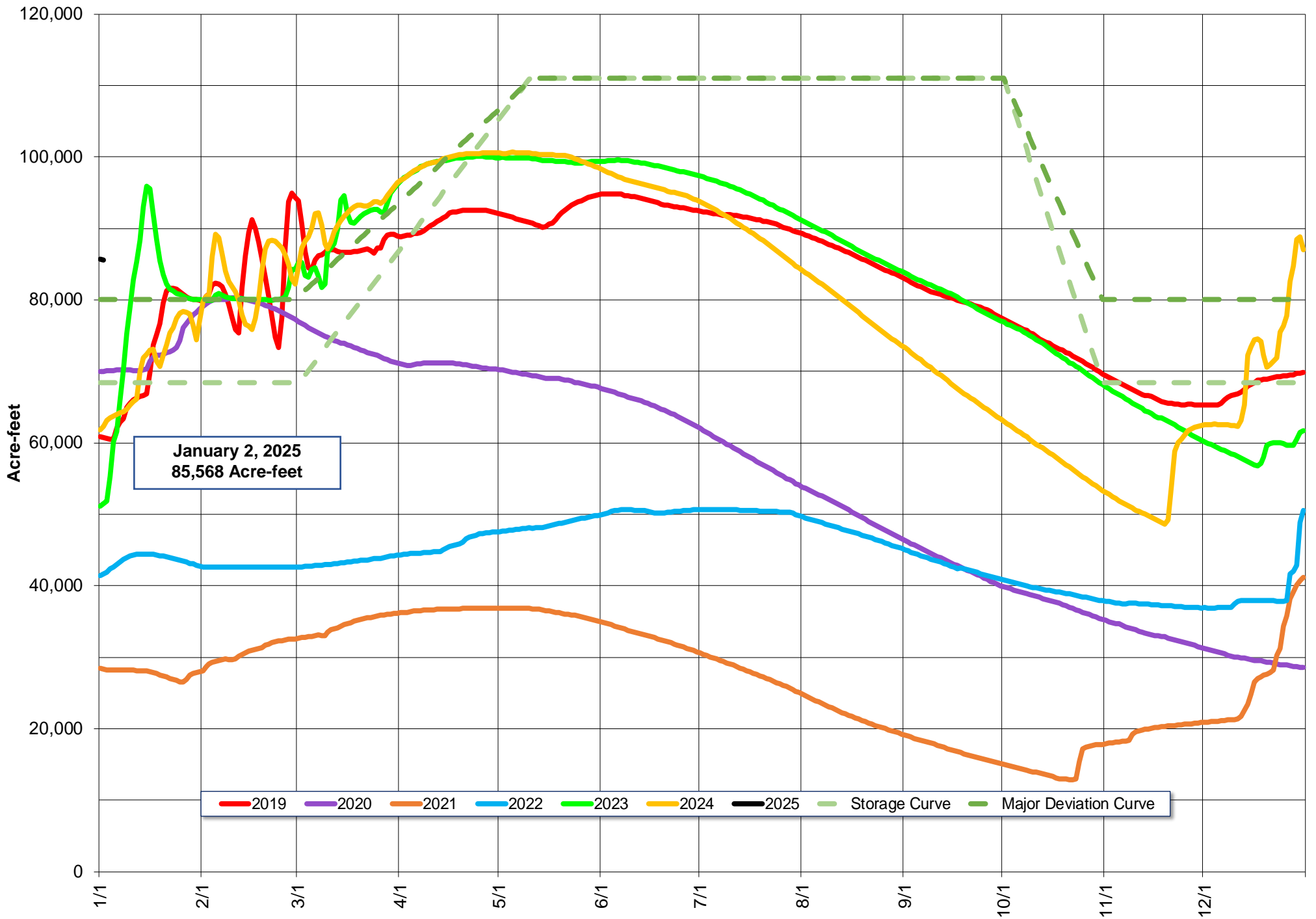
**Instream Flow Requirements as of January 2, 2025**

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**



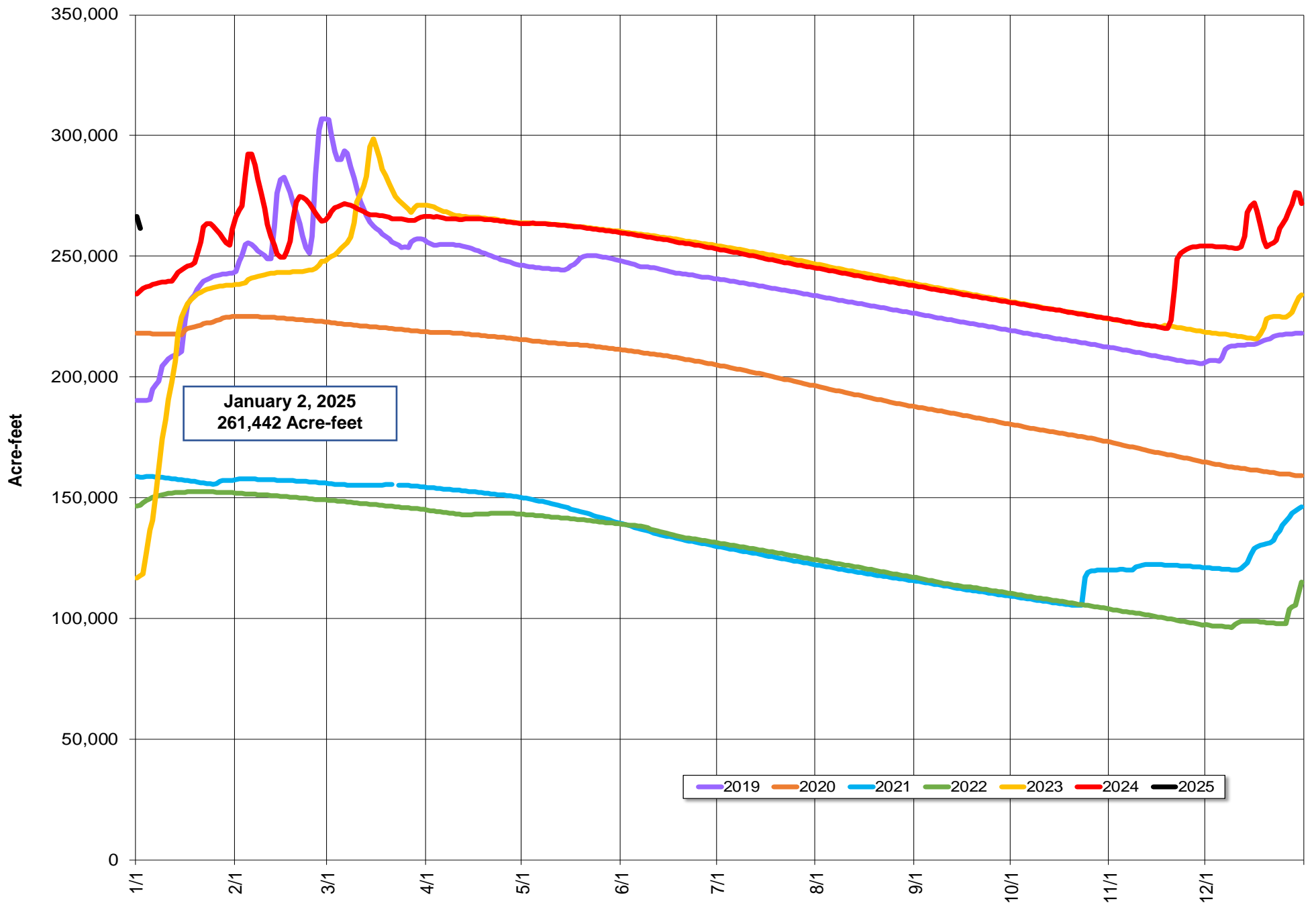
Storage (acre-feet)	January 2, 2025	<b>85,568</b>	
Change in Storage (acre-feet)	Last 30 days	<b>22,976</b>	<b>766</b>
	Last 7 days	<b>3,025</b>	<b>432</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>319</b>
		Max	<b>2,569</b>
		Mean	<b>1,228</b>
Release (cfs)	Last 7 days	Min	<b>146</b>
		Max	<b>1,006</b>
		Mean	<b>419</b>

# Lake Sonoma



Todd Schram, February 10, 2024

## Lake Sonoma Storage 2019-2025



Storage (acre-feet)	January 2, 2025	<b>261,442</b>	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
		<b>7,291</b>	<b>243</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>336</b>
		Max	<b>2,674</b>
Release (cfs)	Last 7 days	Mean	<b>1,195</b>
		Min	<b>247</b>
		Max	<b>2,998</b>
		Mean	<b>1,353</b>

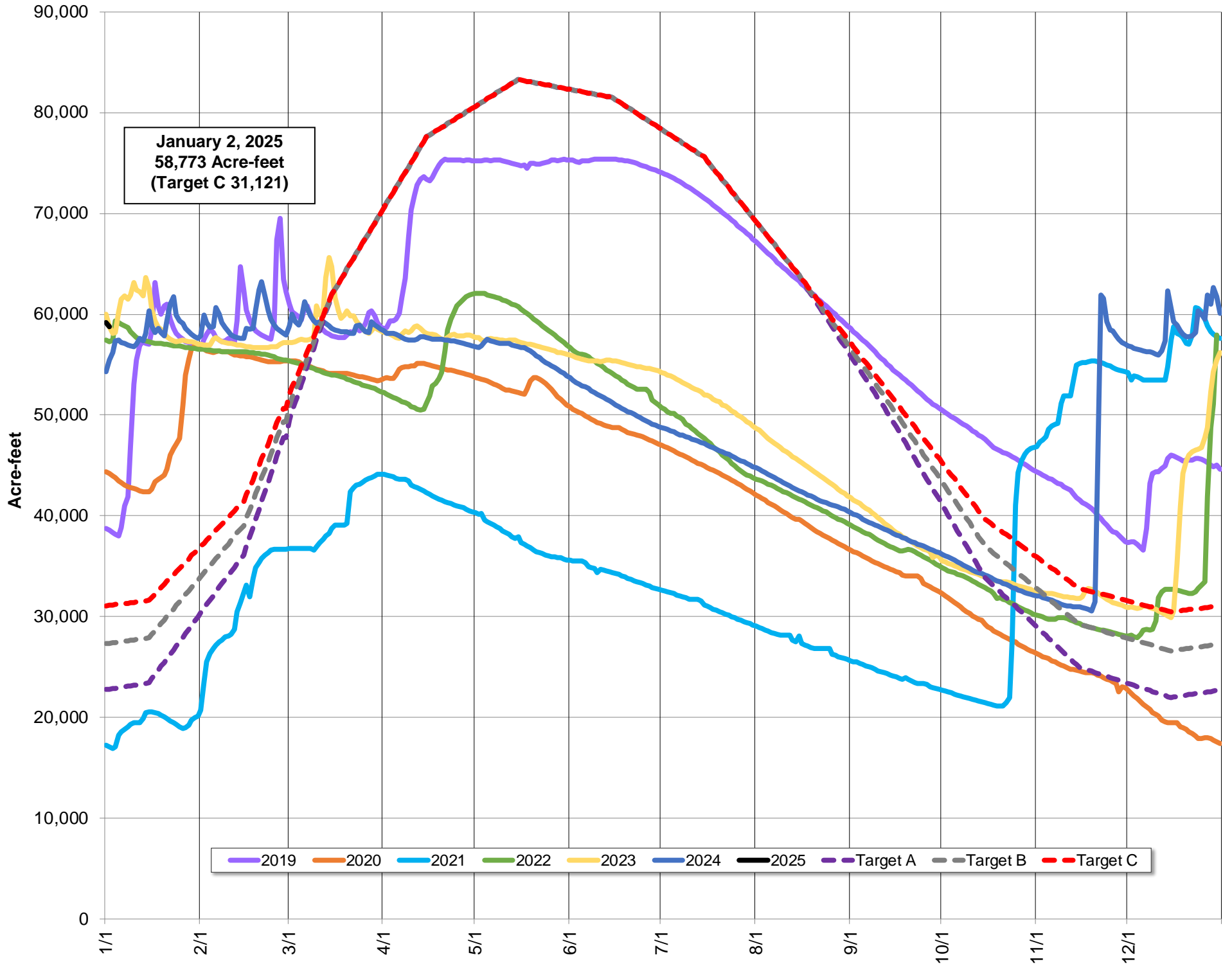
# Potter Valley Project

PVP Diversion (cfs)	January 2, 2025	45
---------------------	-----------------	----

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2024 - January 2, 2025	202,856	2,158
	Last 7 days	45,112	6,445

\*Inflow calculation based on criteria established in D1610

### Lake Pillsbury Storage 2019 - 2025 and Target Storage Scenarios

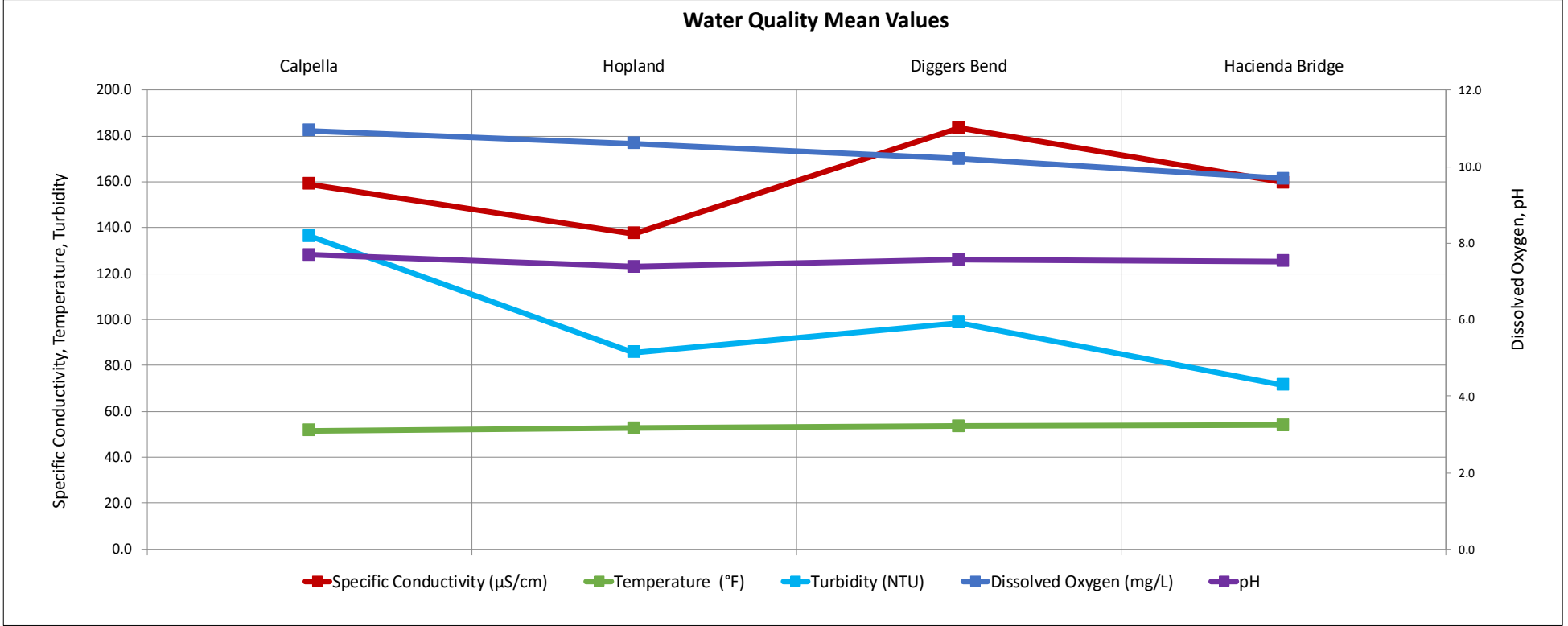


### Russian River Flows (December 27, 2024 - January 2, 2025)

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	50.4		50.5	50.7		52.0	
	Max	54.9	54.9		56.1	56.3		56.5	
	Mean	51.7	52.7		53.4	53.6		54.0	
Specific Conductivity (µS/cm)	Min	85.0	98.0			134.0		130.0	
	Max	206.0	177.0			220.0		192.0	
	Mean	159.1	137.4			183.5		159.7	
Dissolved Oxygen (mg/L)	Min	10.5	9.9			9.8		9.1	
	Max	11.6	11.0			10.6		10.1	
	Mean	10.9	10.6			10.2		9.7	
Dissolved Oxygen (% Saturation)	Min	97.1	89.5			88.8		86.5	
	Max	101.3	98.6			96.7		93.9	
	Mean	99.0	95.9			94.6		90.3	
pH	Min	7.4	7.2			7.5		7.3	
	Max	7.8	7.5			7.6		7.6	
	Mean	7.7	7.4			7.6		7.5	
Turbidity (NTU)	Min	13.1	28.6			36.4		32.5	
	Max	660.0	422.0			261.0		192.0	
	Mean	136.4	85.6			98.6		71.5	

\*Station operated seasonally

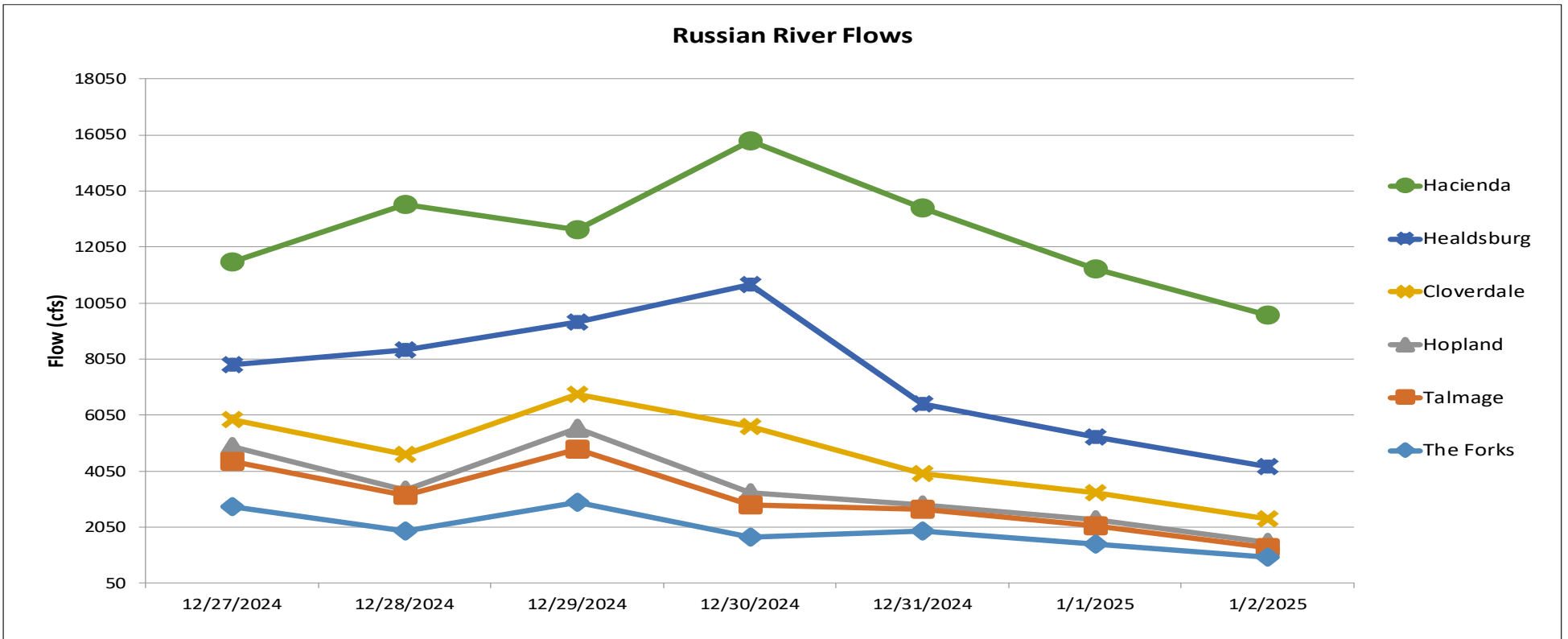
#### Water Quality Mean Values



Gage	24-hr Average Flow (cfs)						
	Dec 27, 2024	Dec 28, 2024	Dec 29, 2024	Dec 30, 2024	Dec 31, 2024	Jan 1, 2025	Jan 2, 2025
The Forks*	2787	1898	2922	1703	1898	1454	966
Talmage USGS 11462080	4406	3187	4826	2837	2687	2096	1310
Hopland USGS 11462500	4930	3376	5589	3278	2850	2310	1510
Cloverdale USGS 11463000	5904	4645	6781	5646	3974	3292	2353
Healdsburg USGS 11464000	7831	8366	9365	10721	6453	5258	4214
Hacienda USGS 11467000	11506	13556	12670	15829	13436	11252	9628

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

#### Russian River Flows

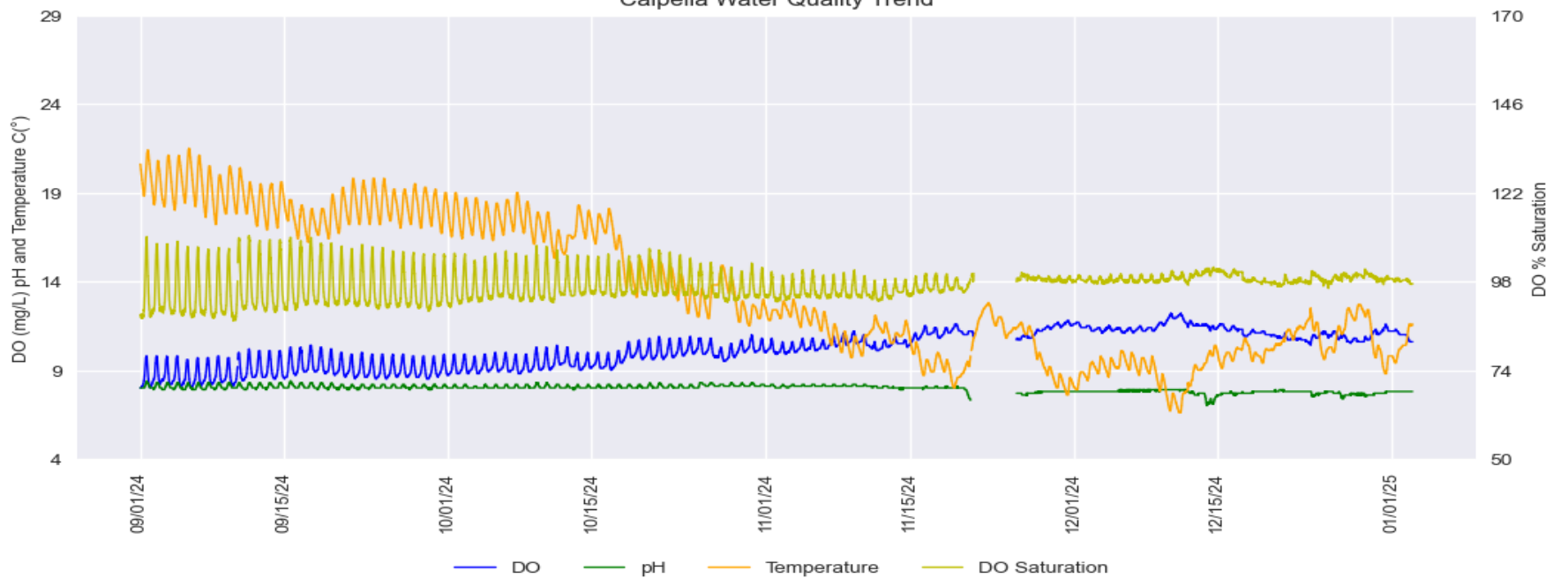


Russian River Water Quality September 1, 2024 – January 2, 2025

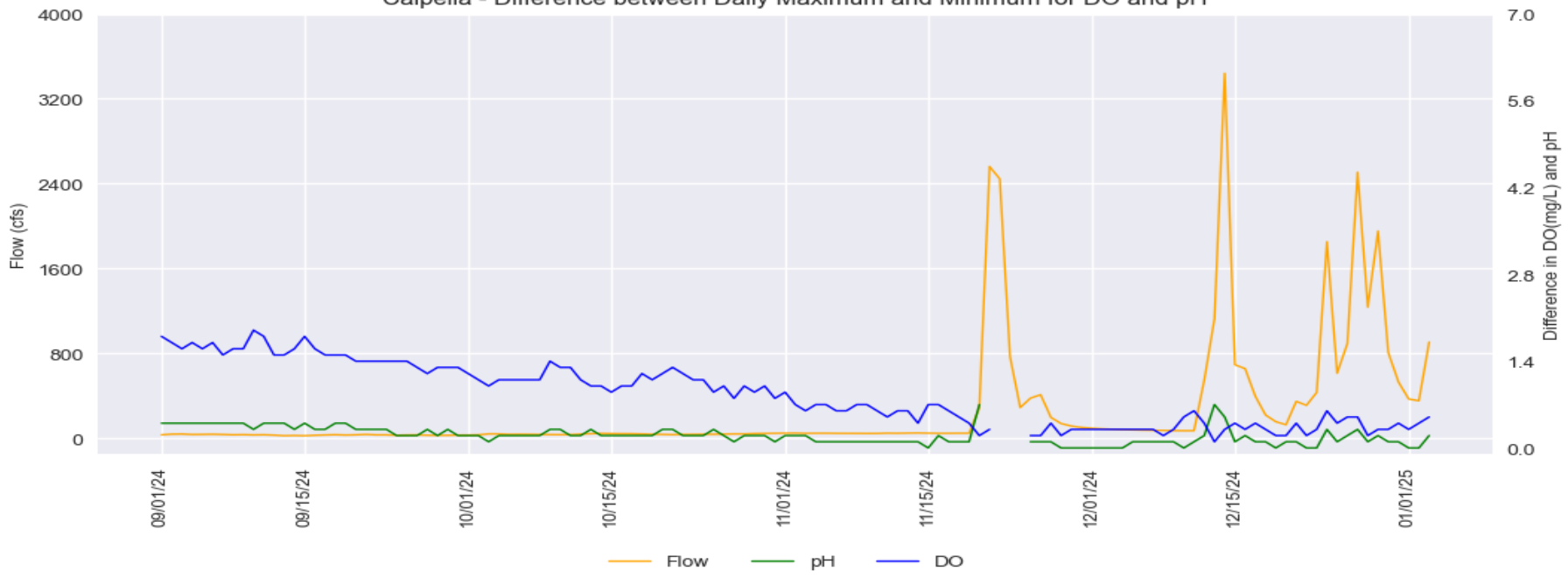
Provisional Data Subject to Revision

**Calpella**

Calpella Water Quality Trend

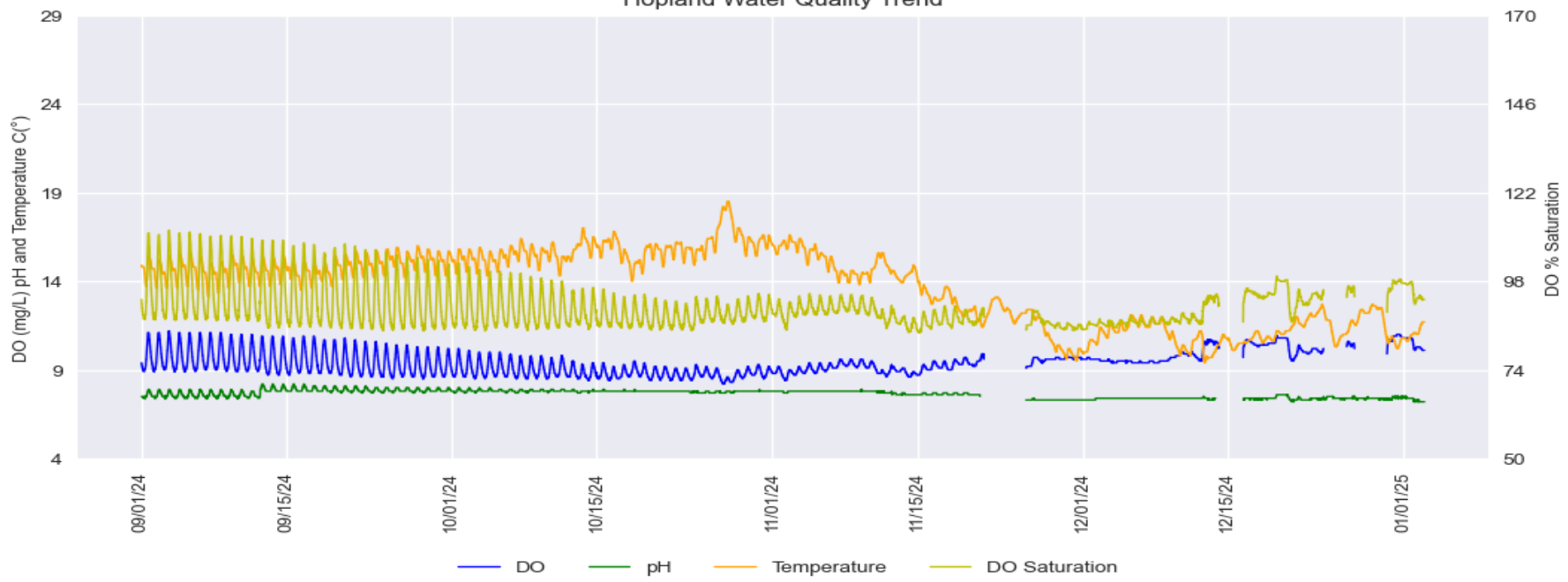


Calpella - Difference between Daily Maximum and Minimum for DO and pH

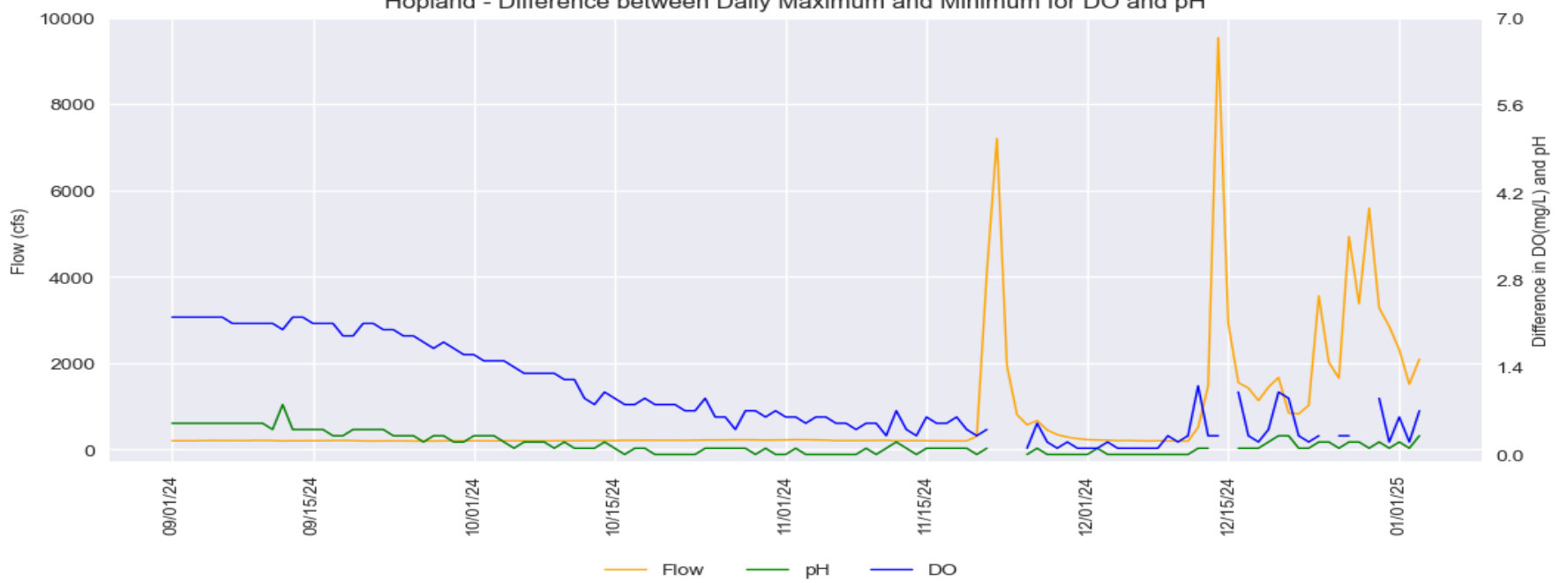


**Hopland**

Hopland Water Quality Trend



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

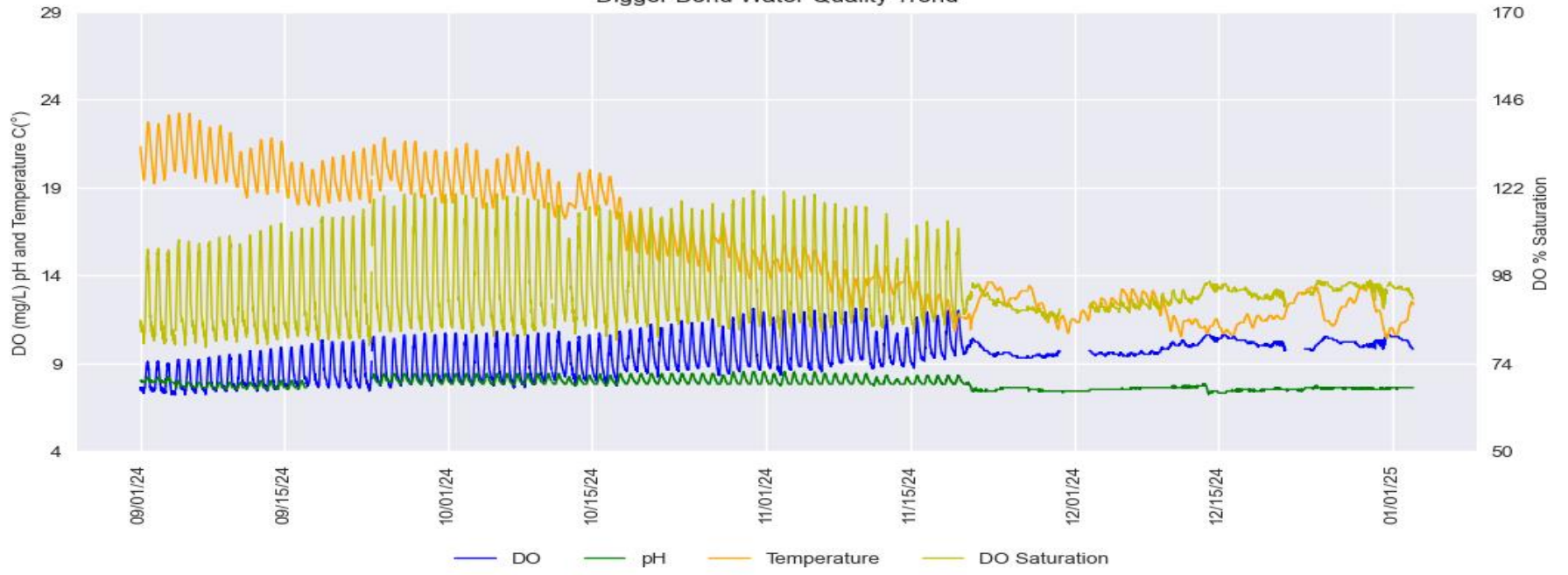


# Russian River Water Quality September 1, 2024 – January 2, 2025

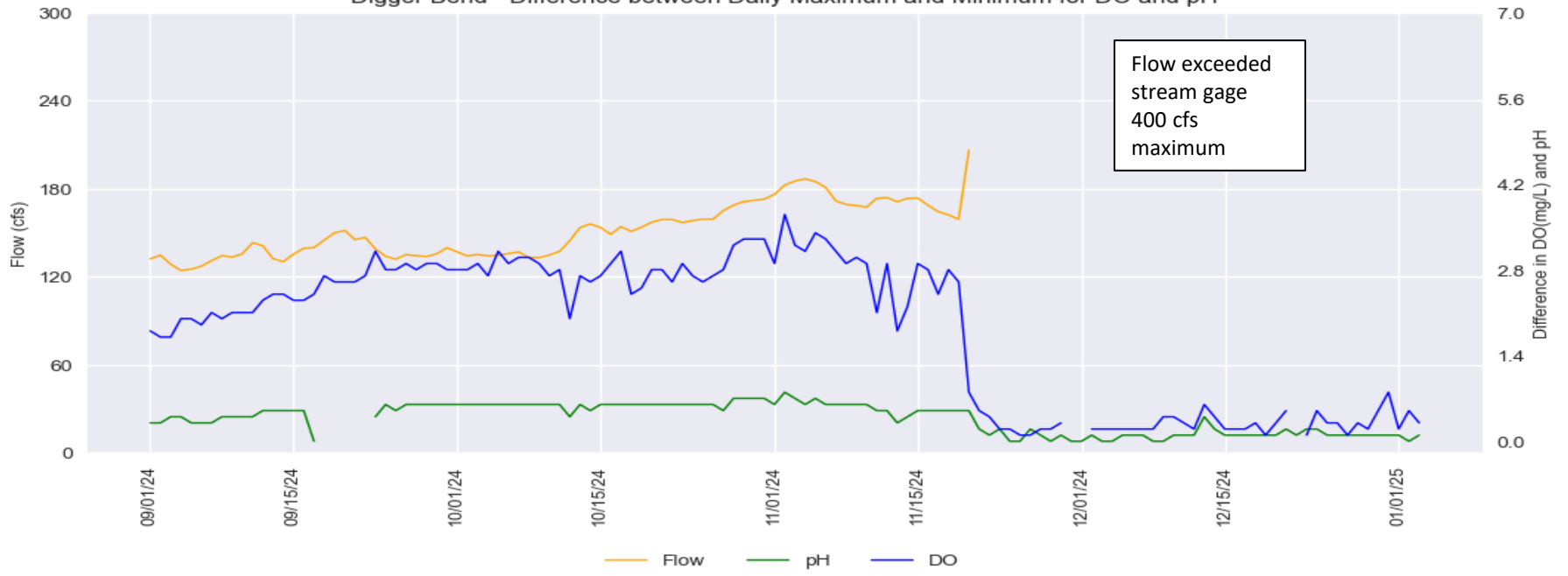
Provisional Data Subject to Revision

## Digger Bend

### Digger Bend Water Quality Trend

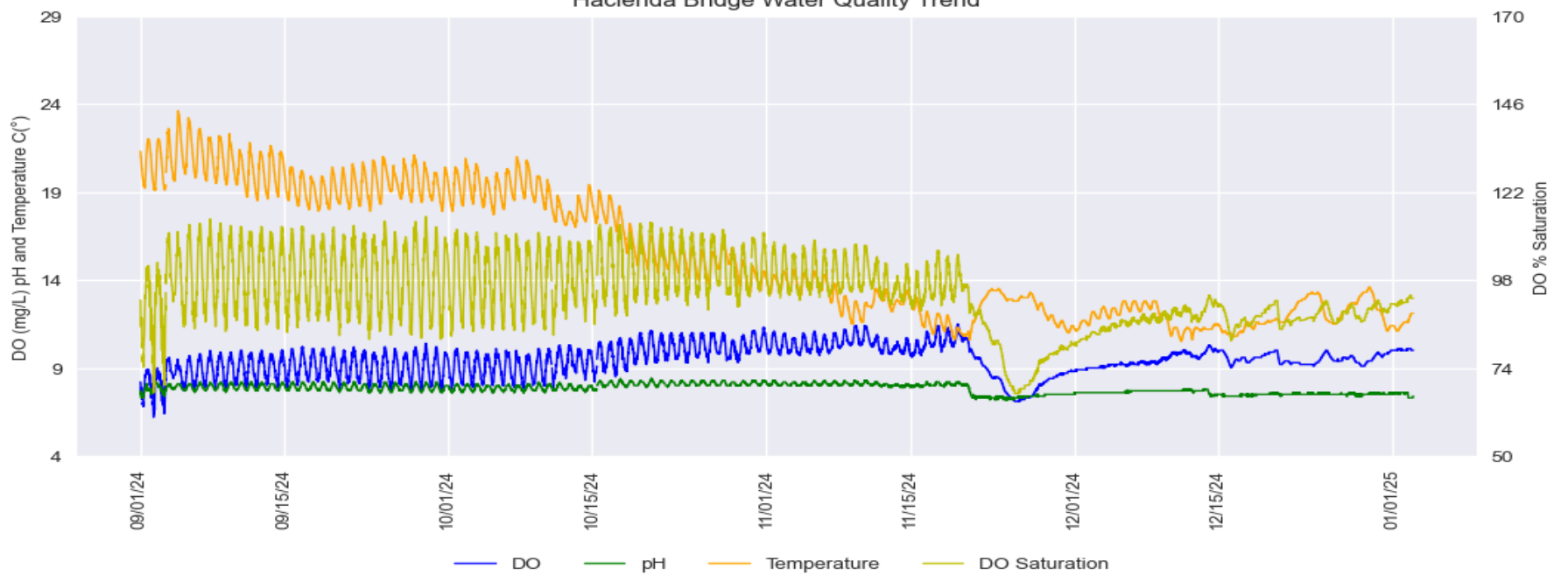


### Digger Bend - Difference between Daily Maximum and Minimum for DO and pH

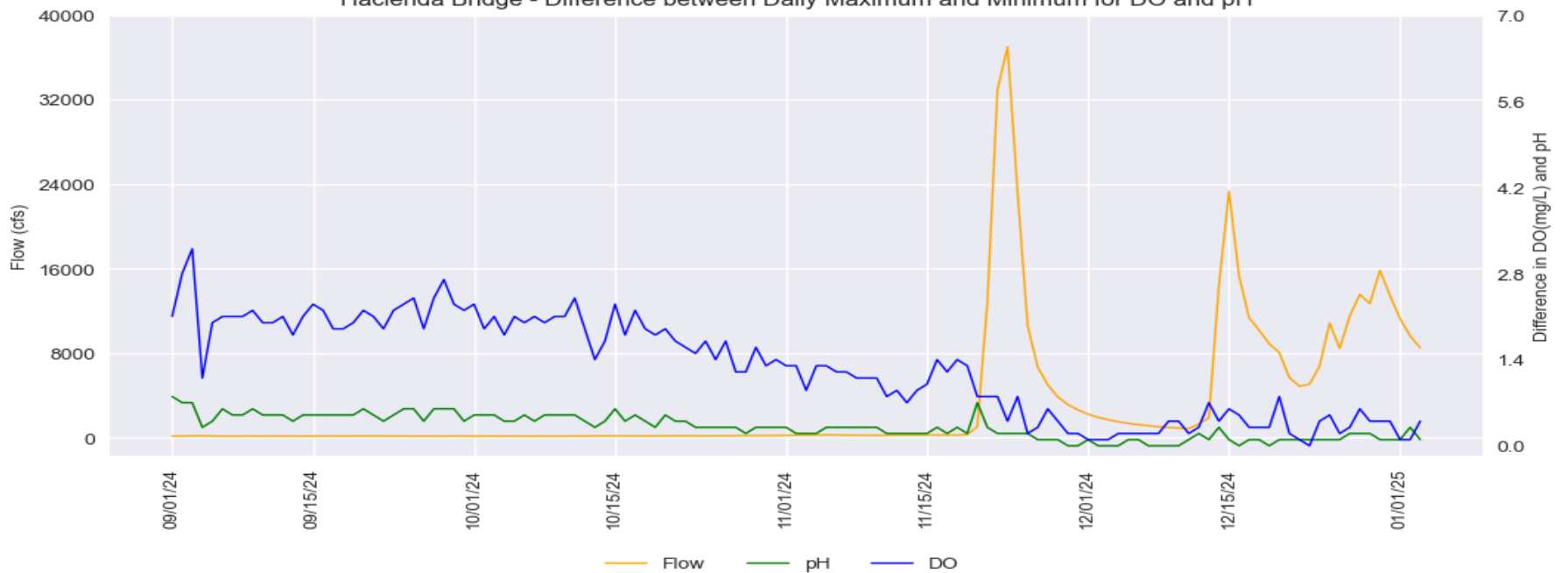


## Hacienda Bridge

### Hacienda Bridge Water Quality Trend



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

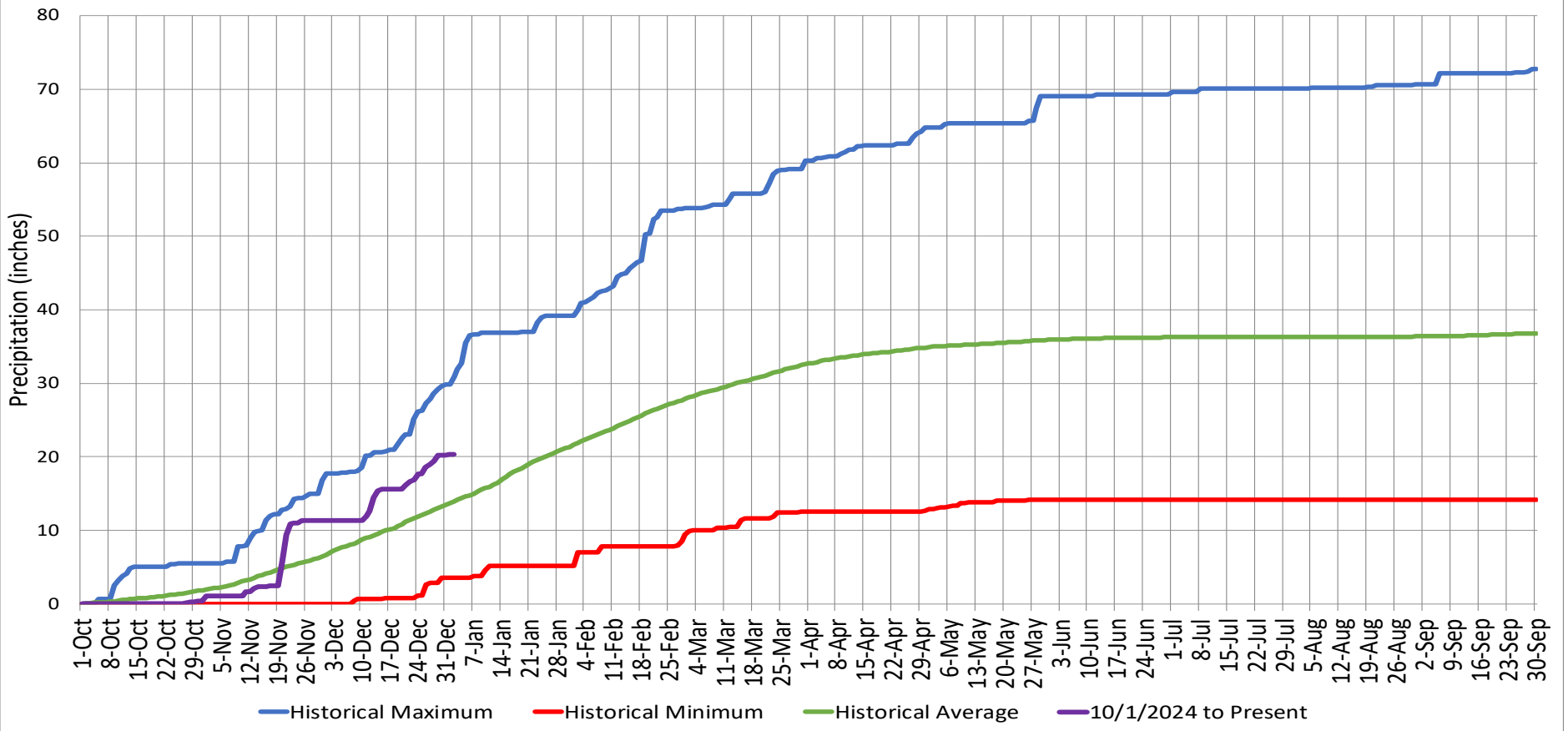


# Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

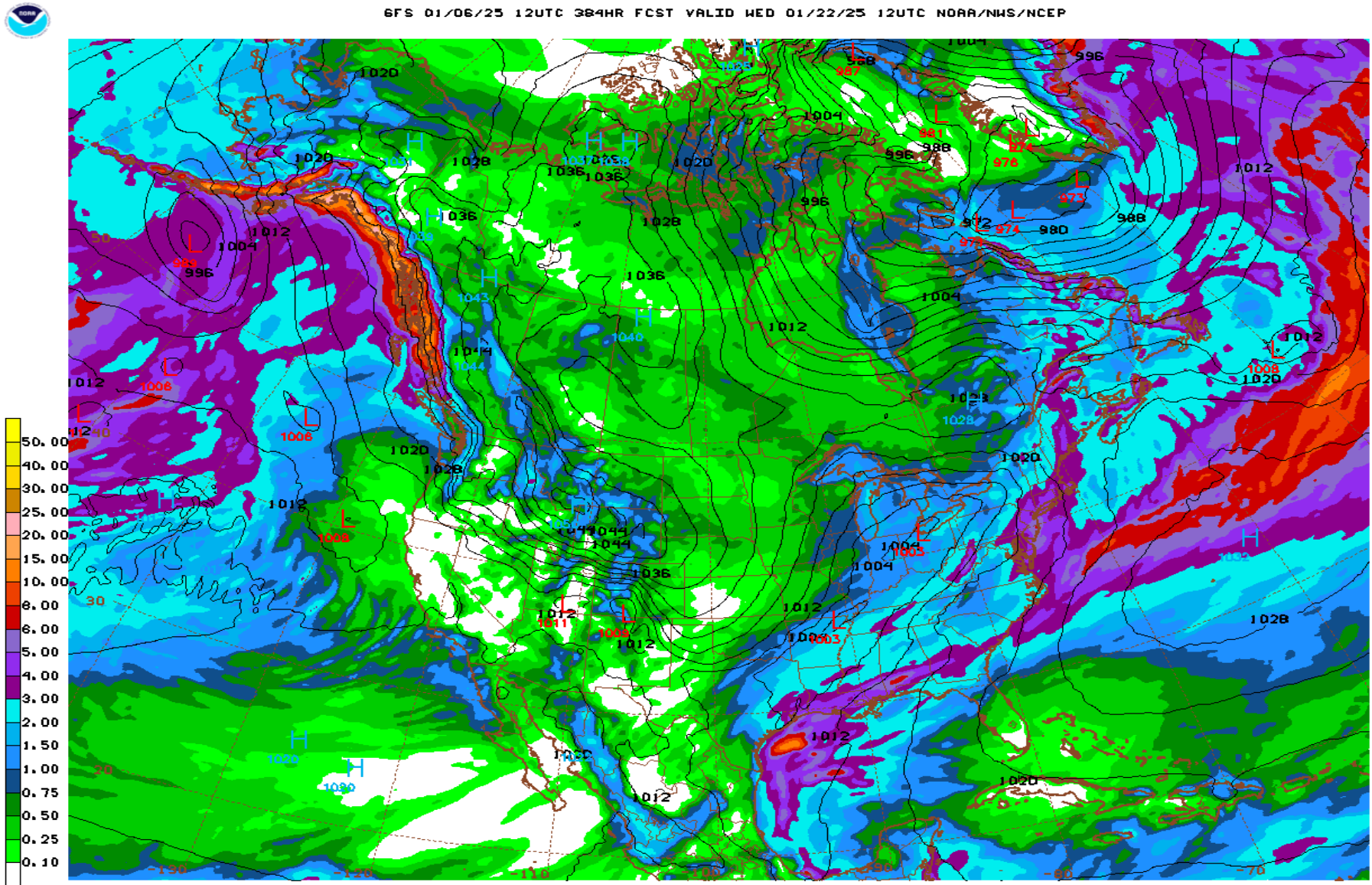
Date Range	Cumulative (inches)
Oct 1, 2024 - Jan 2, 2025	<b>20.33</b>
Last 7 Days*	<b>1.67</b>

Cumulative Precipitation Comparison of Current Year versus Historic Record



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

6FS 01/06/25 12UTC 384HR FCST VALID MED 01/22/25 12UTC NOAA/NWS/NCEP



6FS MED 250122/1200V384 EMSL (4MB), 384HR ACCUMULATED PRECIP (IN)

Date Range  
Jan 6 - Jan 22, 2025

Forecasted Cumulative (inches)  
**0.10**

## 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.