



State Water Resources Control Board
 Temporary Urgency Change Order (12/27/2023)
 Russian River Hydrologic & Water Quality Report
 January 5, 2024 - January 11, 2024

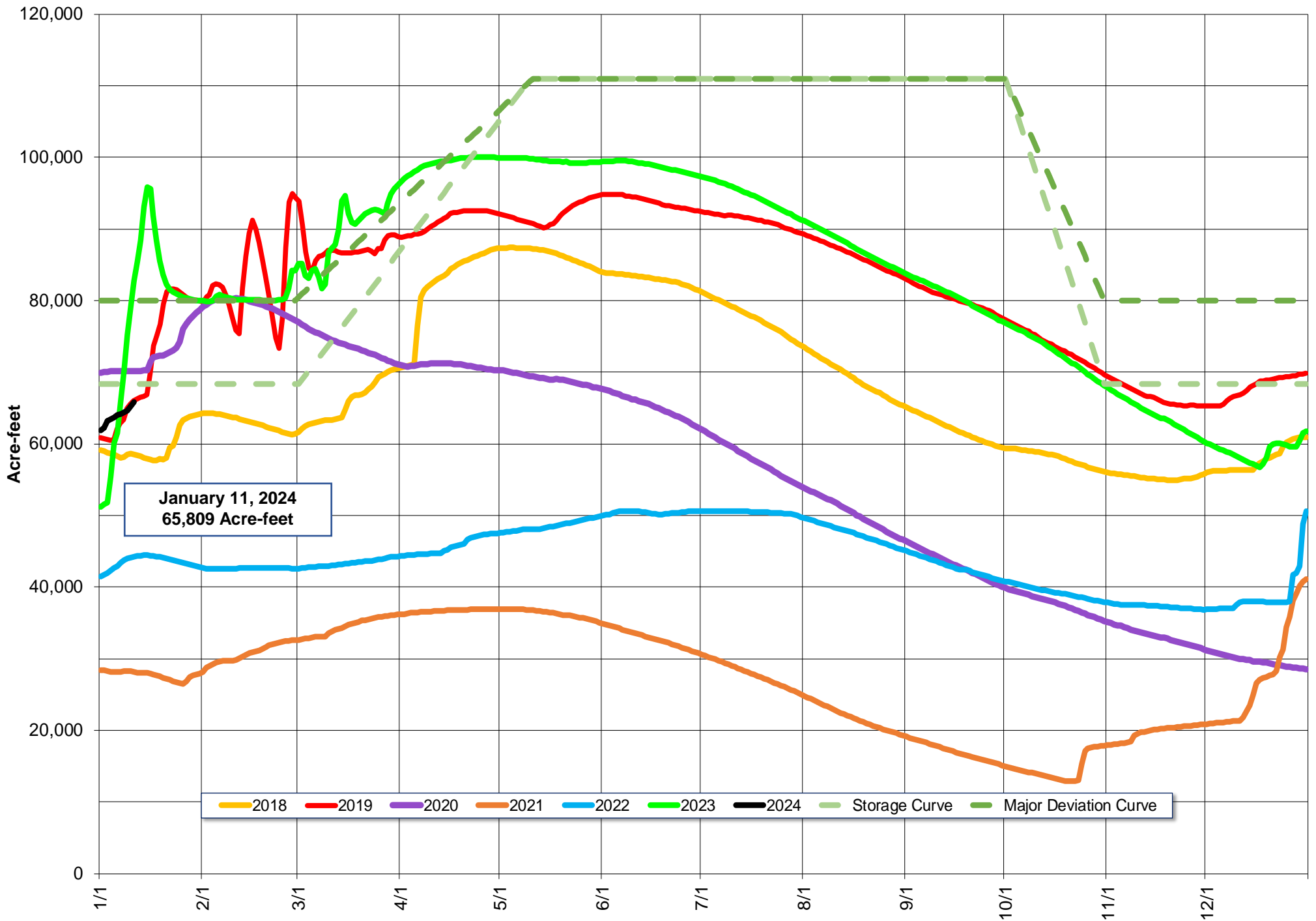
Prepared as a requirement of the Order approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A, 12949, 12950, and 16596 (Applications 12919A, 15736, 15737, and 19351).

Instream Flow Requirements as of January 11, 2024

Basis	Reach	Instantaneous (cfs)	5-day Average (cfs)
Modified Per Order: Dry Condition	Upper Russian River	75	-
Modified Per Order: Dry Condition	Dry Creek	75	-
Modified Per Order: Dry Condition	Lower Russian River	85	-

Lake Mendocino

Lake Mendocino Storage 2018 - 2024 and Storage Curve



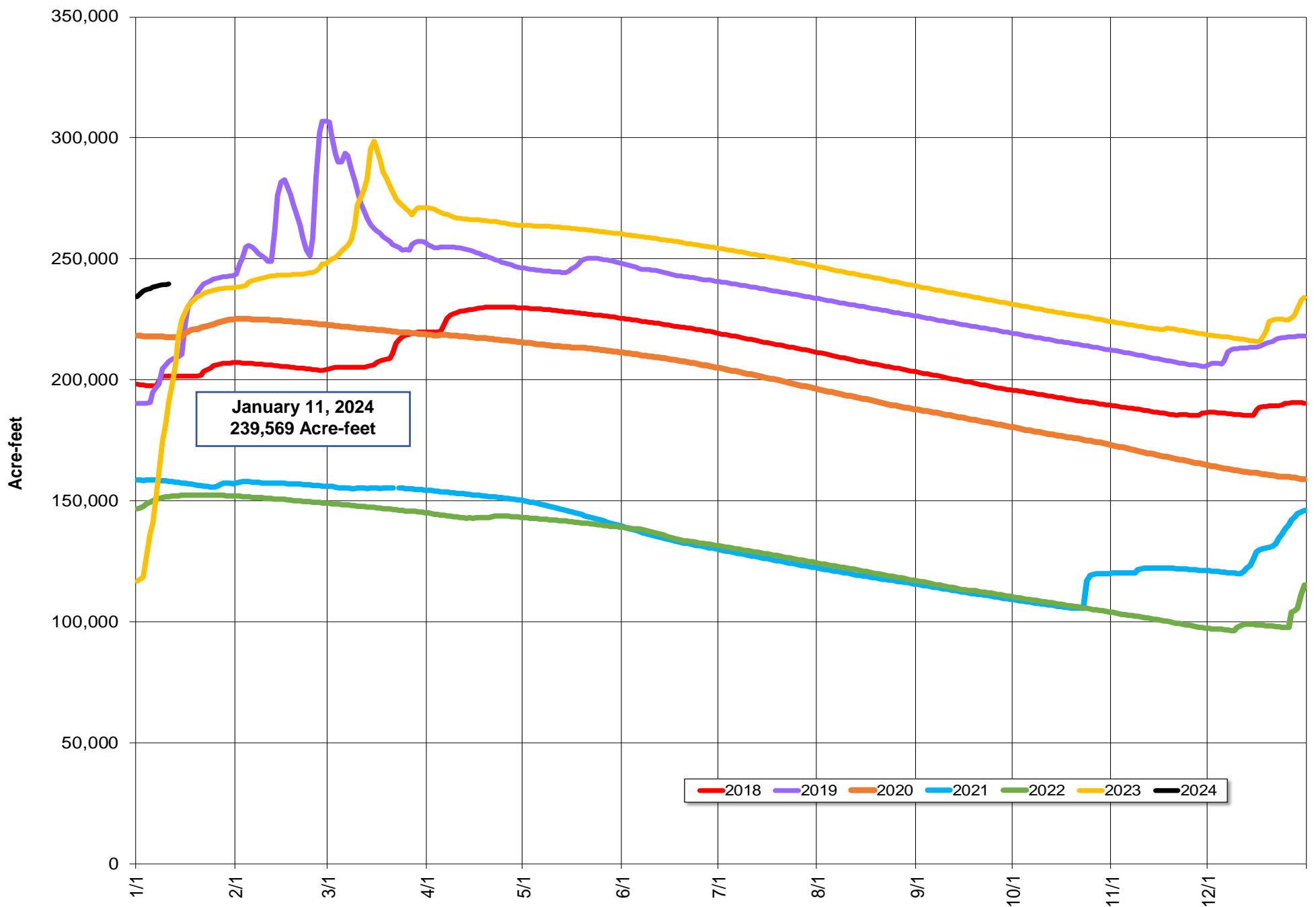
Storage (acre-feet)	January 11, 2024	65,809	
Change in Storage (acre-feet)	Last 30 days	7,966	266
	Last 7 days	2,128	304
Daily Inflow (cfs)	Last 7 days	Min	118
		Max	343
		Mean	205
Release (cfs)	Last 7 days	Min	33
		Max	35
		Mean	34

Lake Sonoma



Nathan Baskett, March 3, 2011

Lake Sonoma Storage 2018-2024



Storage (acre-feet)	January 11, 2024	239,569	
Change in Storage (acre-feet)	Last 30 days	22,846	762
	Last 7 days	1,711	244
Daily Inflow (cfs)	Last 7 days	Min	149
		Max	356
		Mean	239
Release (cfs)	Last 7 days	Min	80
		Max	89
		Mean	81

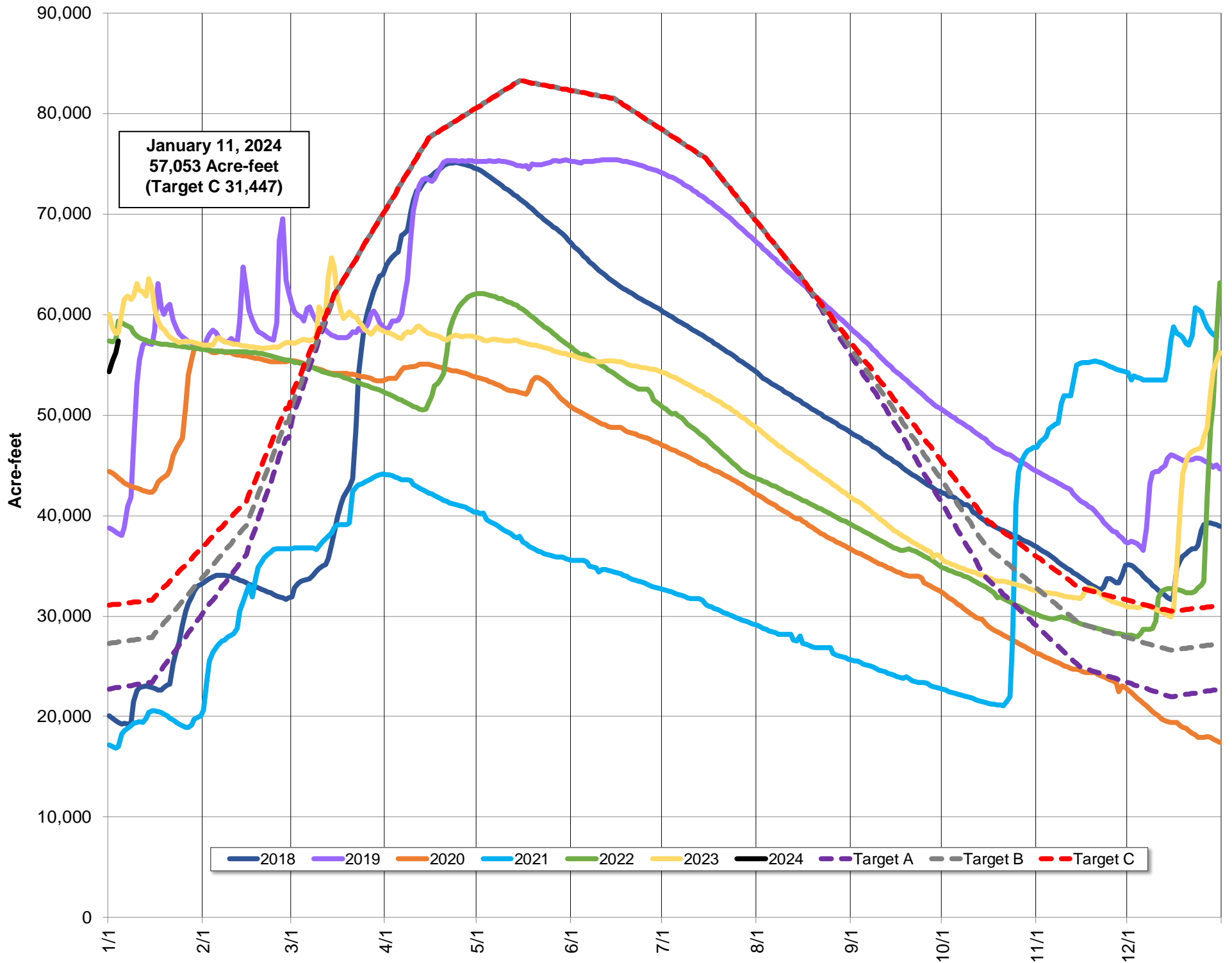
Potter Valley Project

PVP Diversion (cfs)	January 11, 2024	46
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2023 - January 11, 2024	56,152	545
	Last 7 days	7,559	1,080

*Inflow calculation based on criteria established in D1610

Lake Pillsbury Storage 2018 - 2024 and Target Storage Scenarios

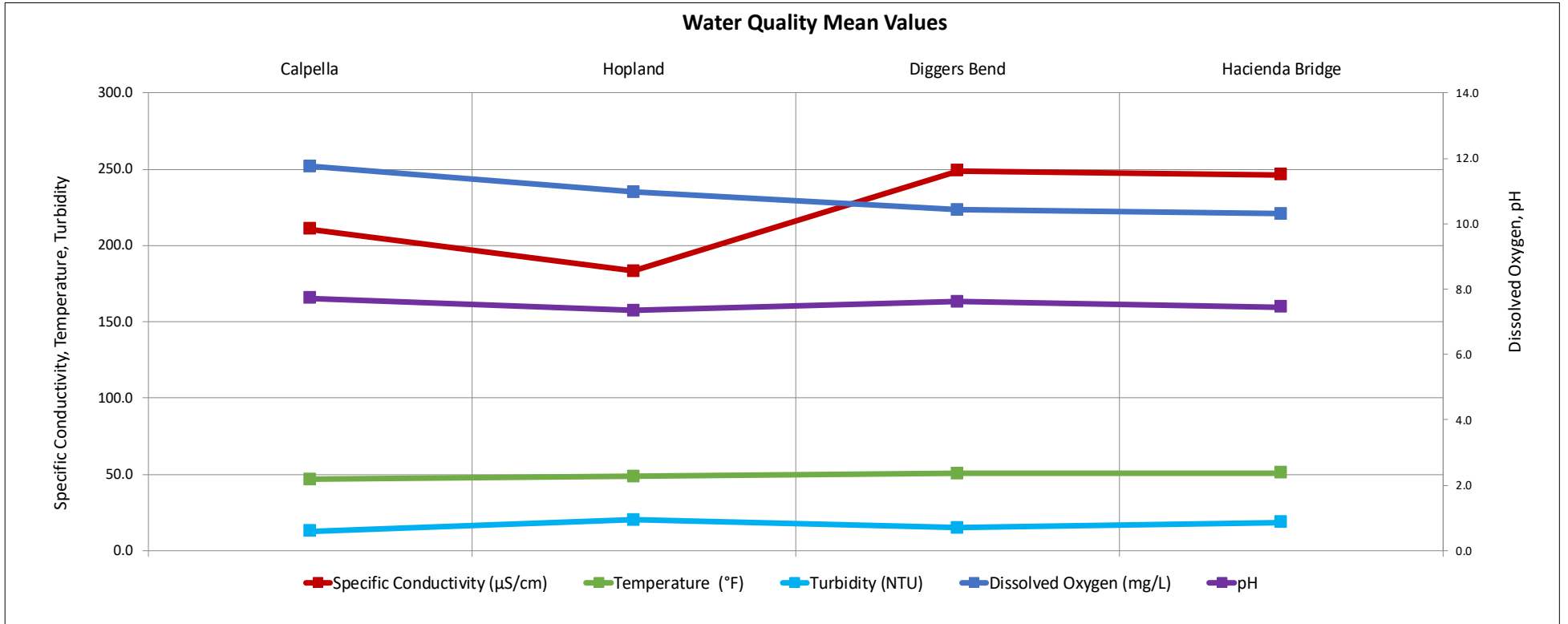


Russian River Flows (January 5, 2024 - January 11, 2024)

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	43.5	45.7		47.7	48.0		48.6	
	Max	49.6	51.1		52.7	52.2		52.3	
	Mean	46.6	48.5		50.5	50.5		50.7	
Specific Conductivity (µS/cm)	Min	159.0	114.0			169.0		201.0	
	Max	228.0	216.0			272.0		268.0	
	Mean	210.9	183.1			248.9		246.5	
Dissolved Oxygen (mg/L)	Min	11.2	10.3			10.0		9.8	
	Max	12.3	11.9			11.2		11.0	
	Mean	11.8	11.0			10.4		10.3	
Dissolved Oxygen (% Saturation)	Min	98.1	91.5			87.2		87.8	
	Max	101.8	100.0			98.0		97.4	
	Mean	99.4	95.2			92.9		92.0	
pH	Min	7.6	7.3			7.6		7.3	
	Max	7.8	7.5			7.8		7.6	
	Mean	7.7	7.3			7.6		7.5	
Turbidity (NTU)	Min	4.9	5.7			7.4		7.6	
	Max	49.0	150.0			77.0		77.6	
	Mean	12.8	20.1			15.0		18.5	

*Station operated seasonally

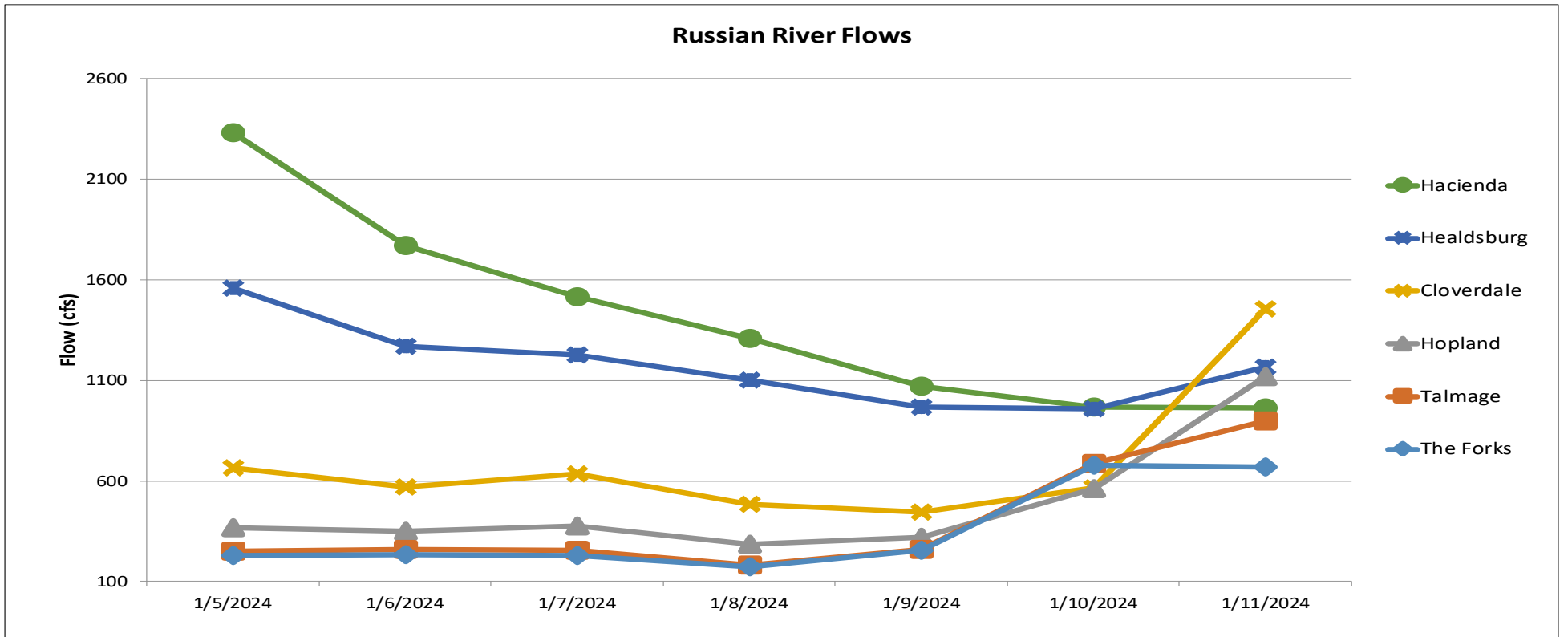
Water Quality Mean Values



Gage	24-hr Average Flow (cfs)						
	Jan 5, 2024	Jan 6, 2024	Jan 7, 2024	Jan 8, 2024	Jan 9, 2024	Jan 10, 2024	Jan 11, 2024
The Forks*	228	235	228	172	257	676	668
Talmage USGS 11462080	249	261	256	180	260	687	900
Hopland USGS 11462500	368	349	375	286	319	561	1117
Cloverdale USGS 11463000	665	570	633	484	443	567	1455
Healdsburg USGS 11464000	1559	1267	1225	1100	967	957	1165
Hacienda USGS 11467000	2331	1771	1515	1310	1071	968	964

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

Russian River Flows

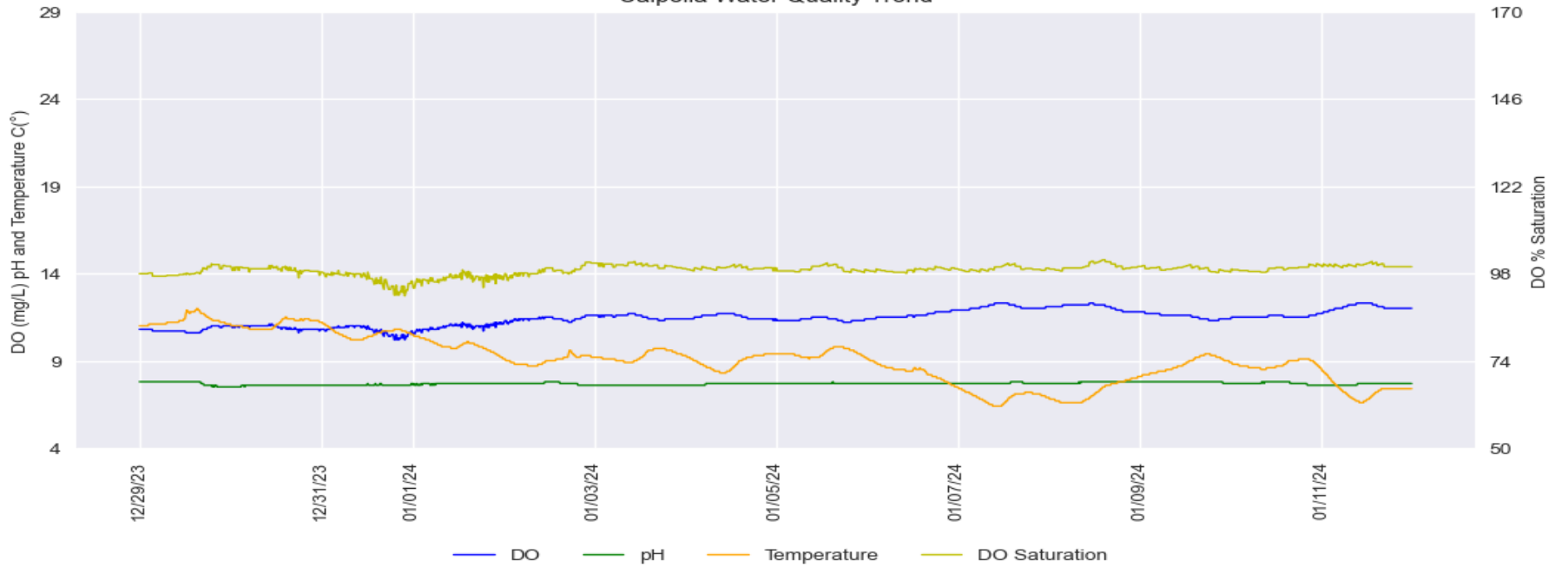


Russian River Water Quality December 29 2023 – January 11, 2024

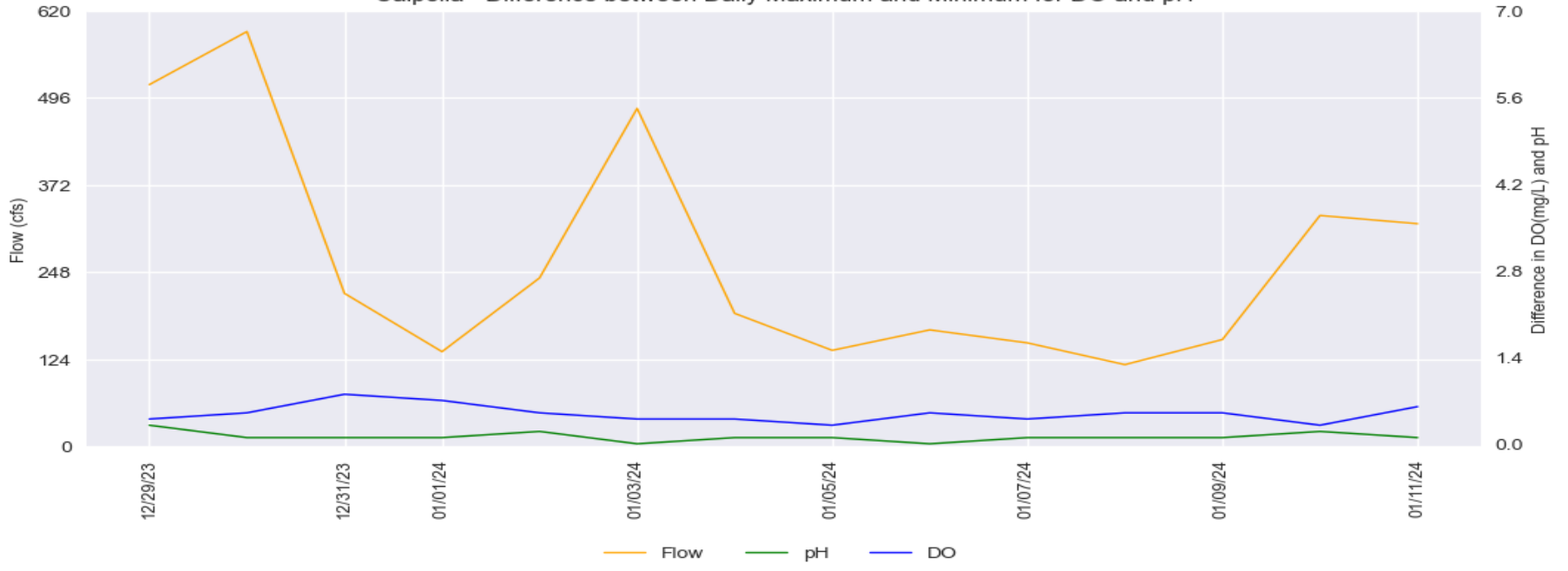
Provisional Data Subject to Revision

Calpella

Calpella Water Quality Trend

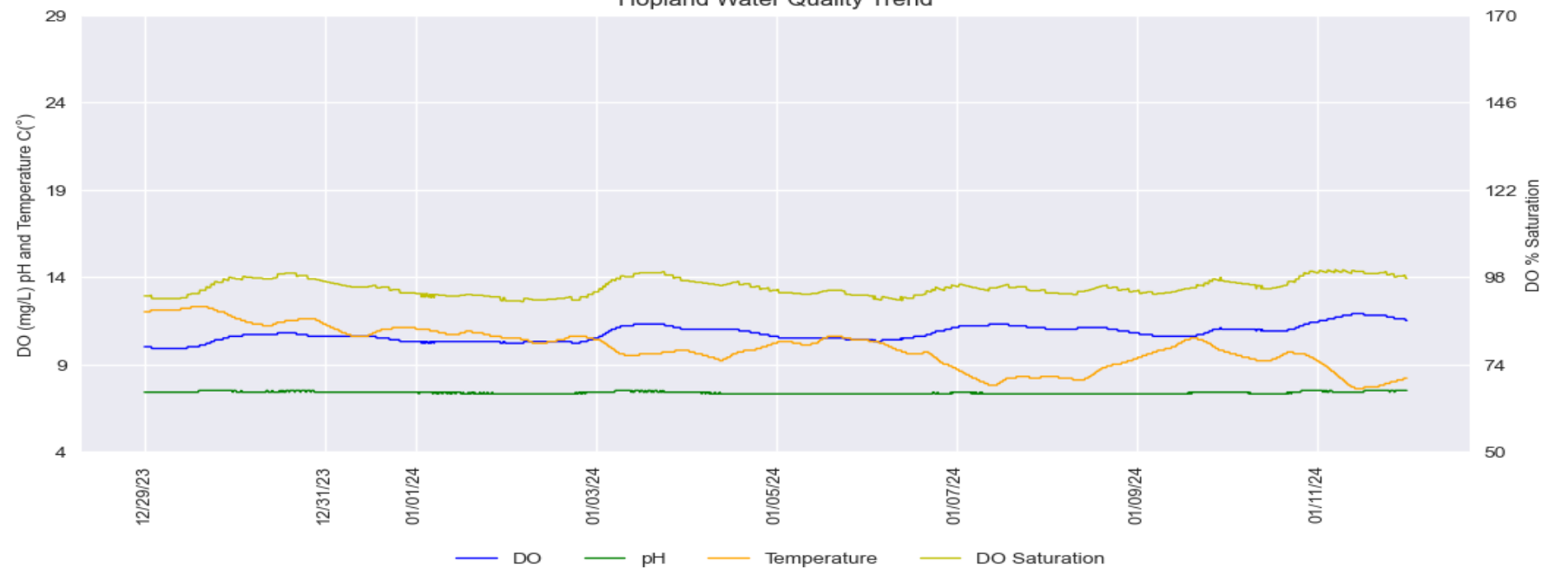


Calpella - Difference between Daily Maximum and Minimum for DO and pH

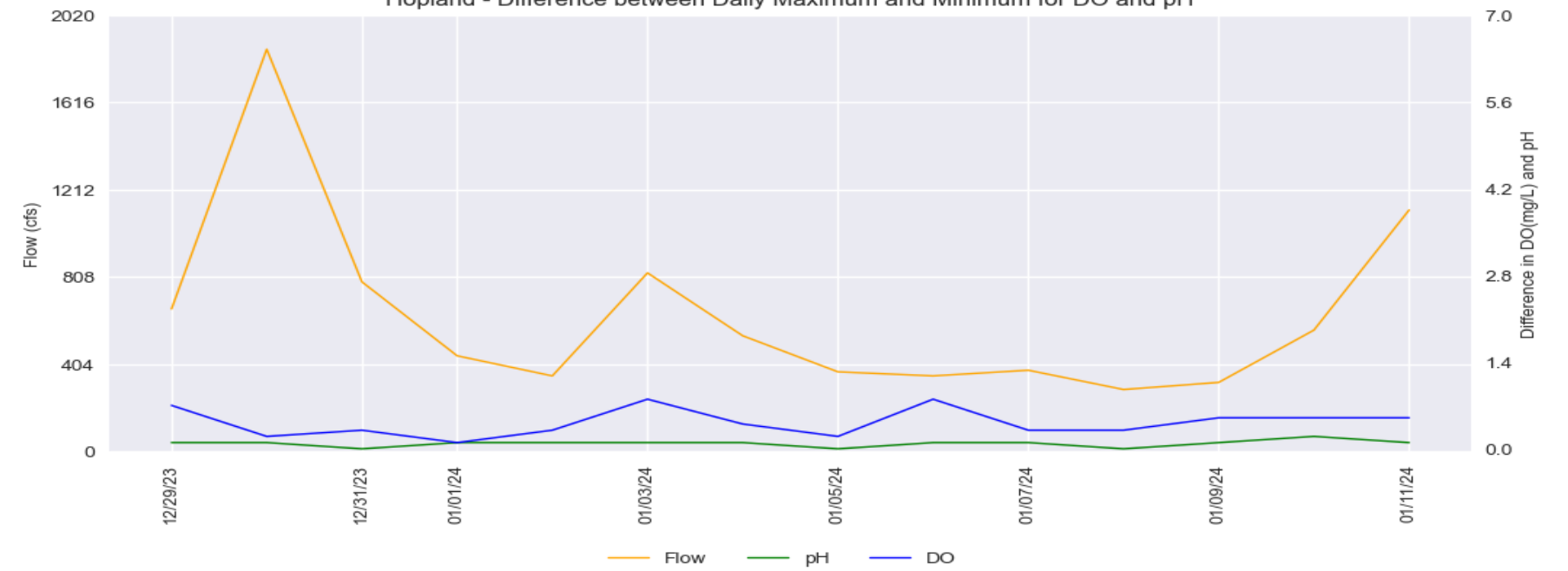


Hopland

Hopland Water Quality Trend



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

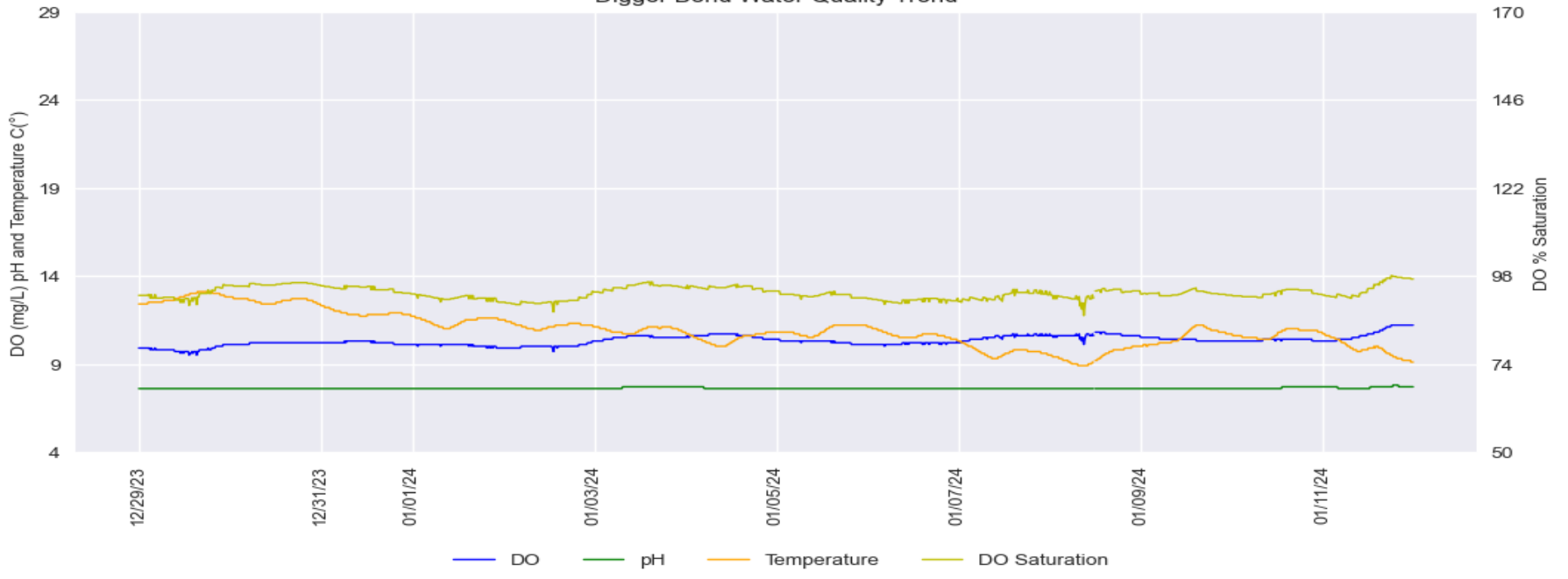


Russian River Water Quality December 29 2023 – January 11, 2024

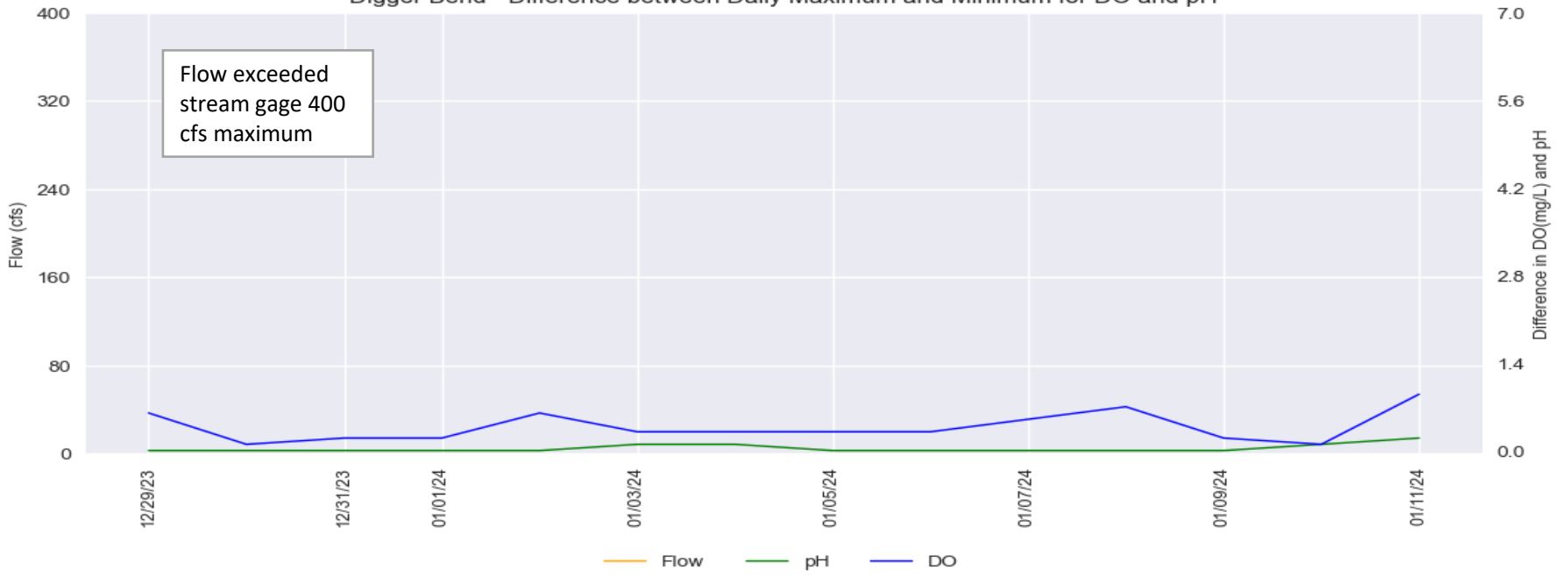
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Digger Bend

Digger Bend Water Quality Trend

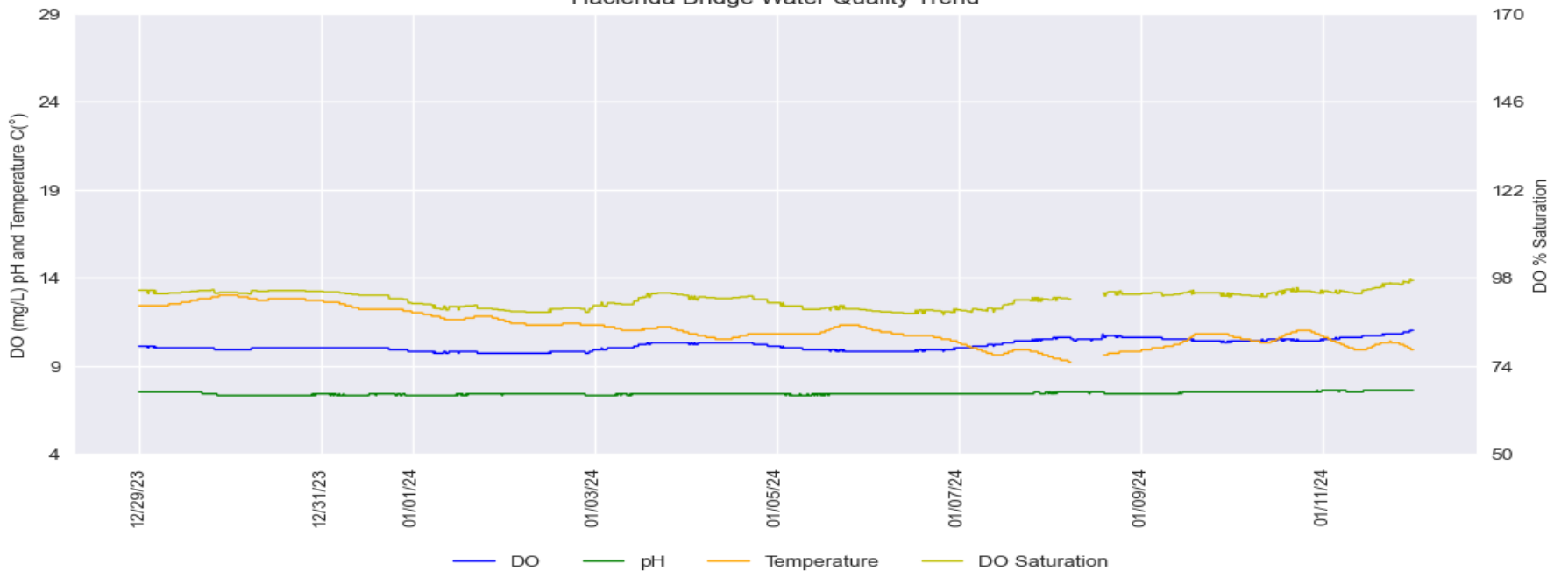


Digger Bend - Difference between Daily Maximum and Minimum for DO and pH

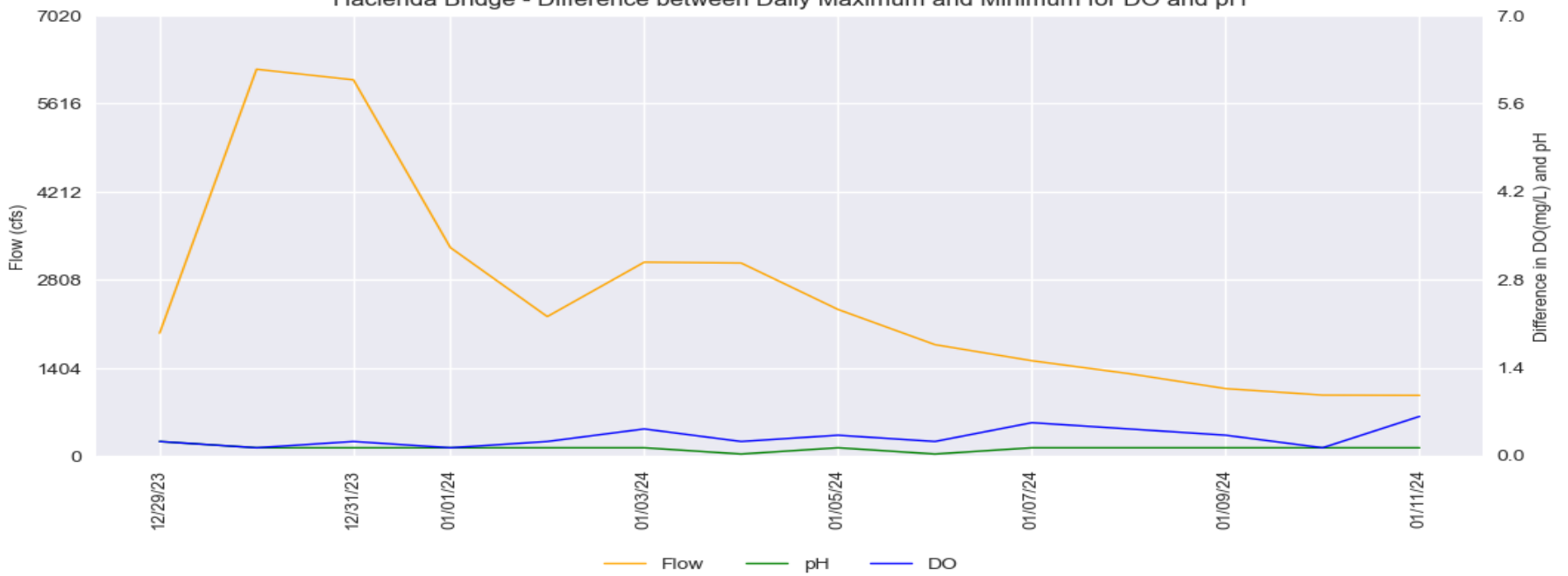


Hacienda Bridge

Hacienda Bridge Water Quality Trend



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

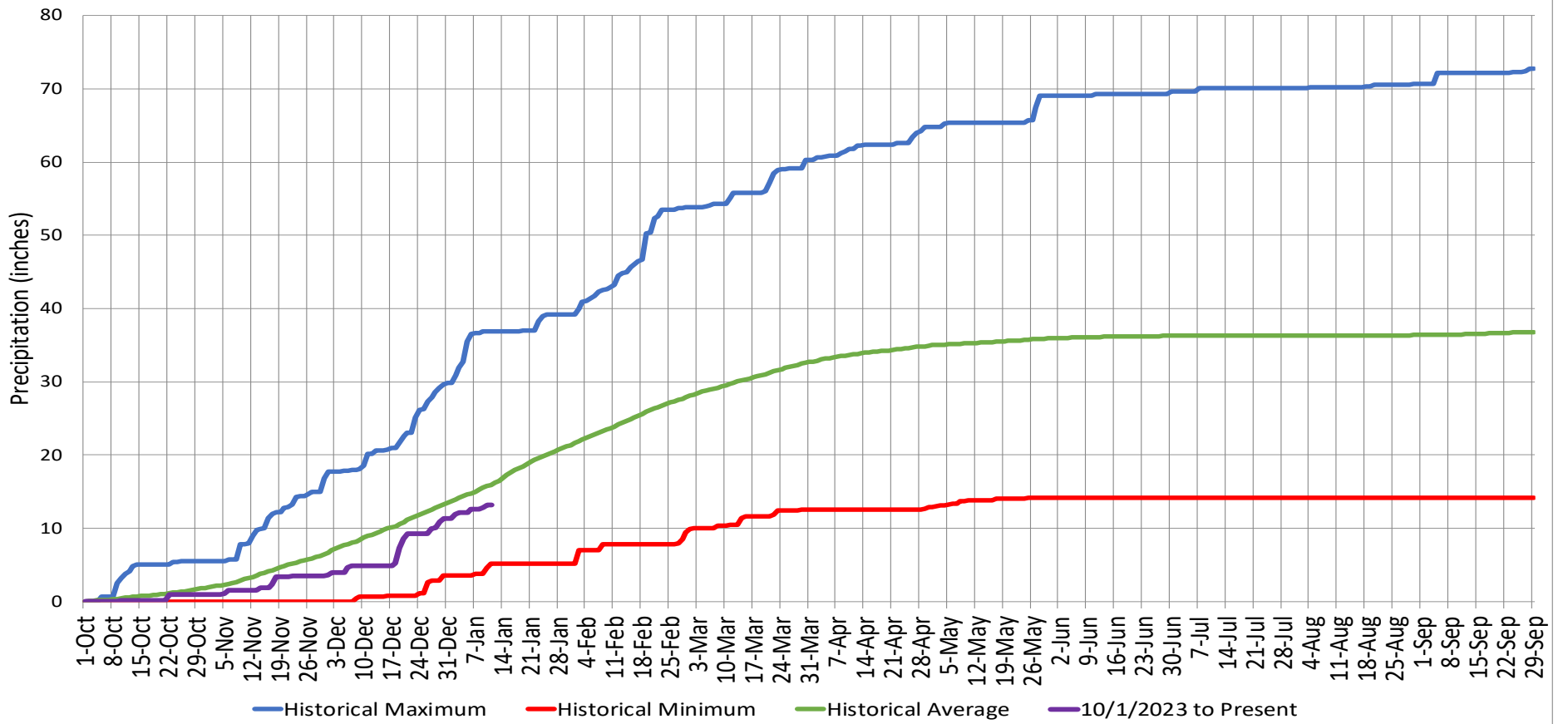


Precipitation

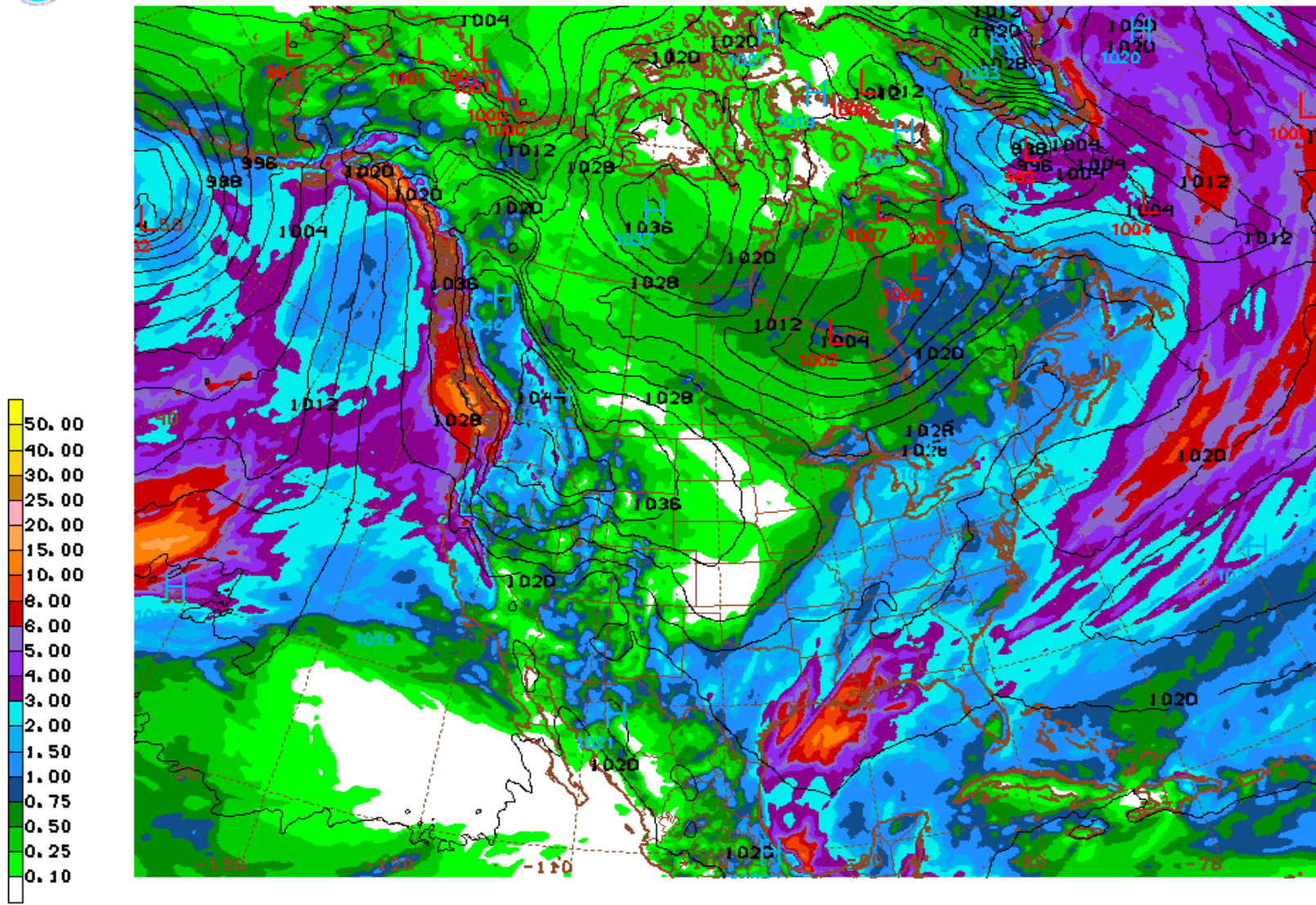
Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

Date Range	Cumulative (inches)
Oct 1, 2023 - Jan 11, 2024	13.14
Last 7 Days*	0.95

Cumulative Precipitation Comparison of Current Year versus Historic Record



6FS 01/16/24 12UTC 384HR FCST VALID THU 02/01/24 12UTC NOAA/NWS/NCEP



6FS THU 240201/1200V384 EMSL (4MB), 384HR ACCUMULATED PRECIP (IN)

Date Range
Jan 16 - Feb 1, 2024

Forecasted Cumulative (inches)
3.11