



State Water Resources Control Board
 Temporary Urgency Change Order (12/27/2023)
 Russian River Hydrologic & Water Quality Report
 March 1, 2024 - March 7, 2024

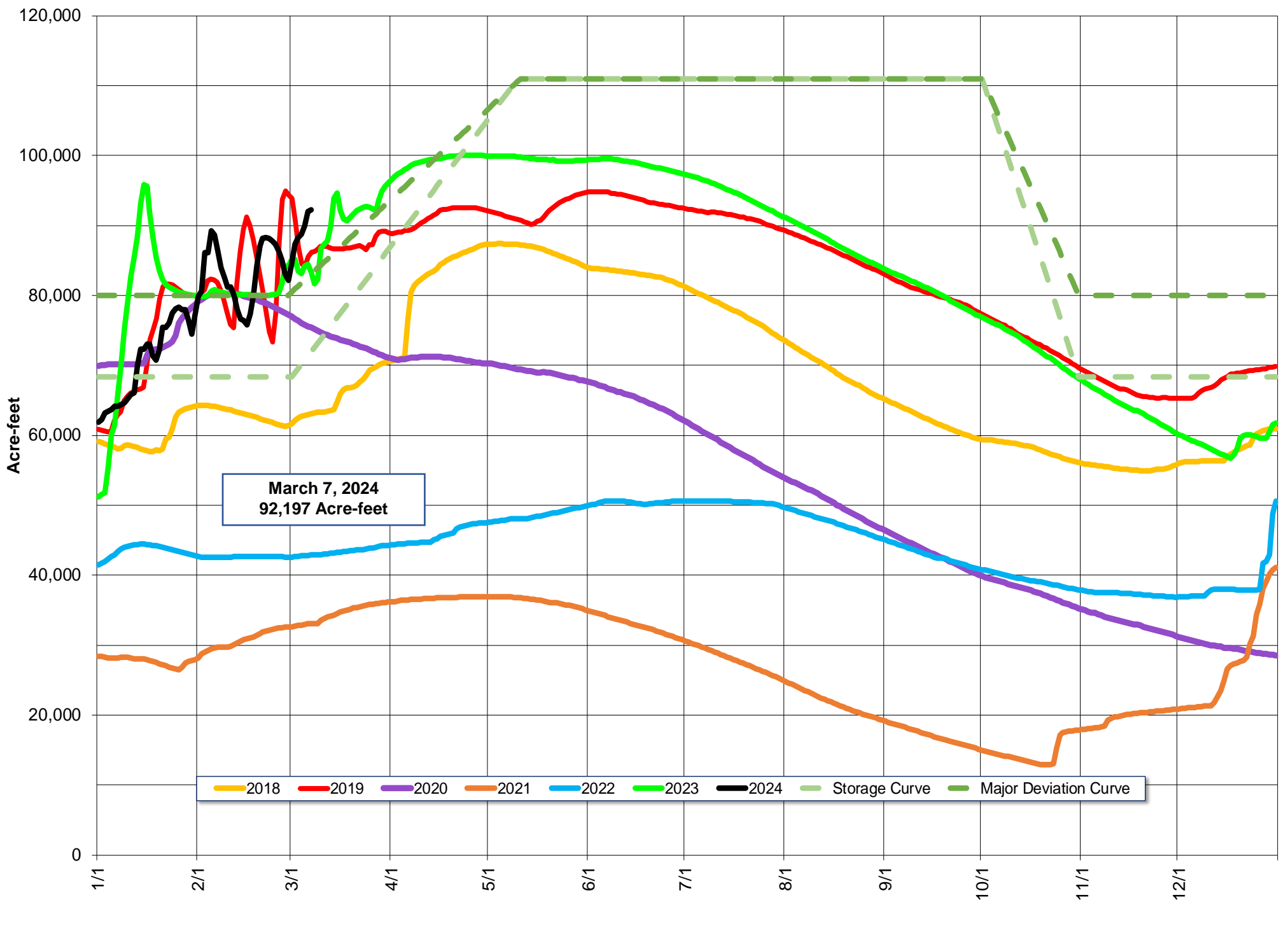
Prepared as a requirement of the Order approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A, 12949, 12950, and 16596 (Applications 12919A, 15736, 15737, and 19351).

Instream Flow Requirements as of March 7, 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	75	-
Modified Per Order: Normal Condition	Lower Russian River	125	-

Lake Mendocino

Lake Mendocino Storage 2018 - 2024 and Storage Curve



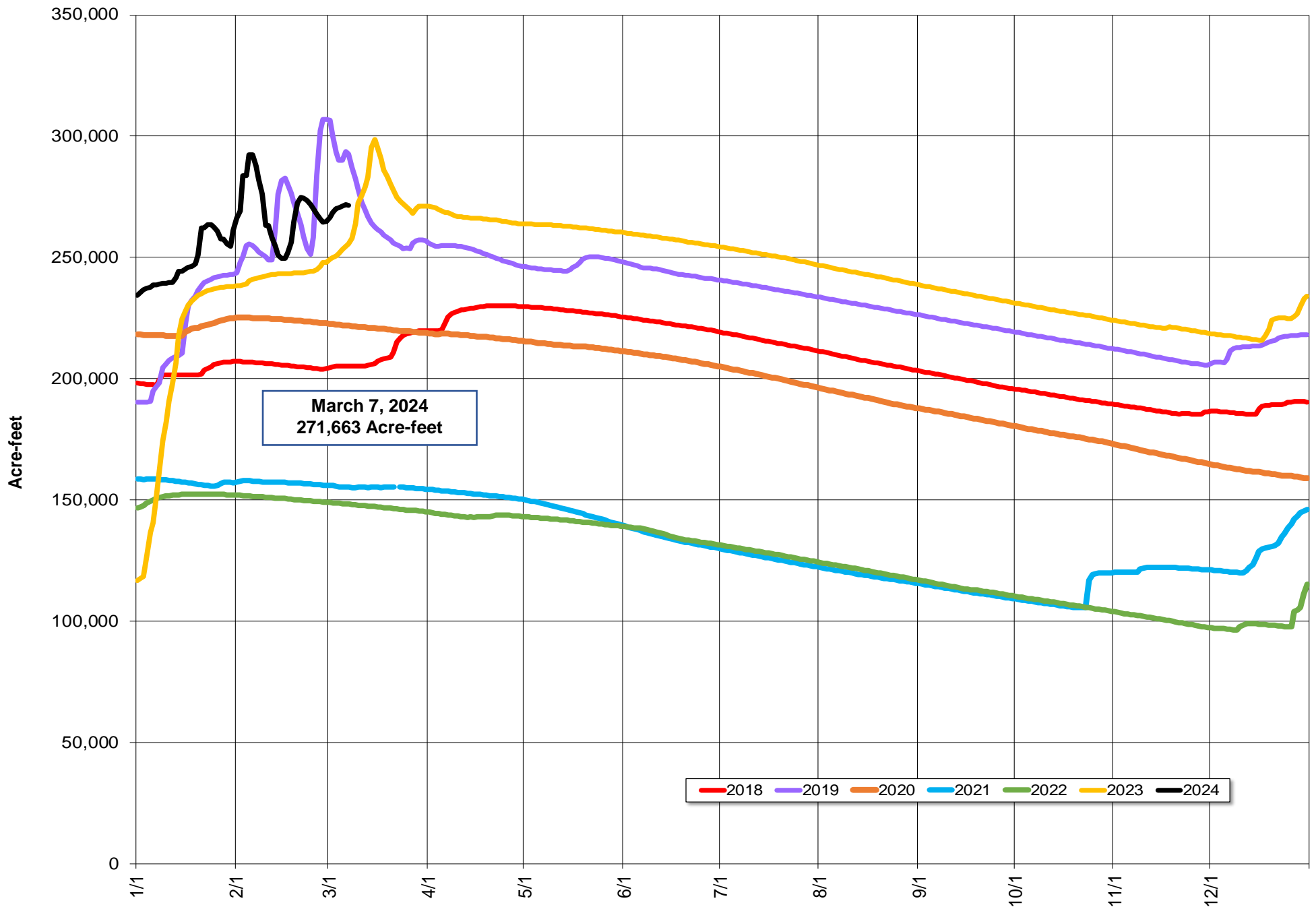
Storage (acre-feet)	March 7, 2024	92,197	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
		3,552	118
	Last 7 days	7,640	1,091
Daily Inflow (cfs)	Last 7 days	Min	623
		Max	1,513
		Mean	1,045
Release (cfs)	Last 7 days	Min	147
		Max	1,986
		Mean	794

Lake Sonoma



Todd Schram, February 10, 2024

Lake Sonoma Storage 2018-2024



Storage (acre-feet)	March 7, 2024	271,663	
Change in Storage (acre-feet)	Last 30 days	-20,775	-693
	Last 7 days	6,788	970
Daily Inflow (cfs)	Last 7 days	Min	655
		Max	1,543
		Mean	1,508
Release (cfs)	Last 7 days	Min	450
		Max	992
		Mean	800

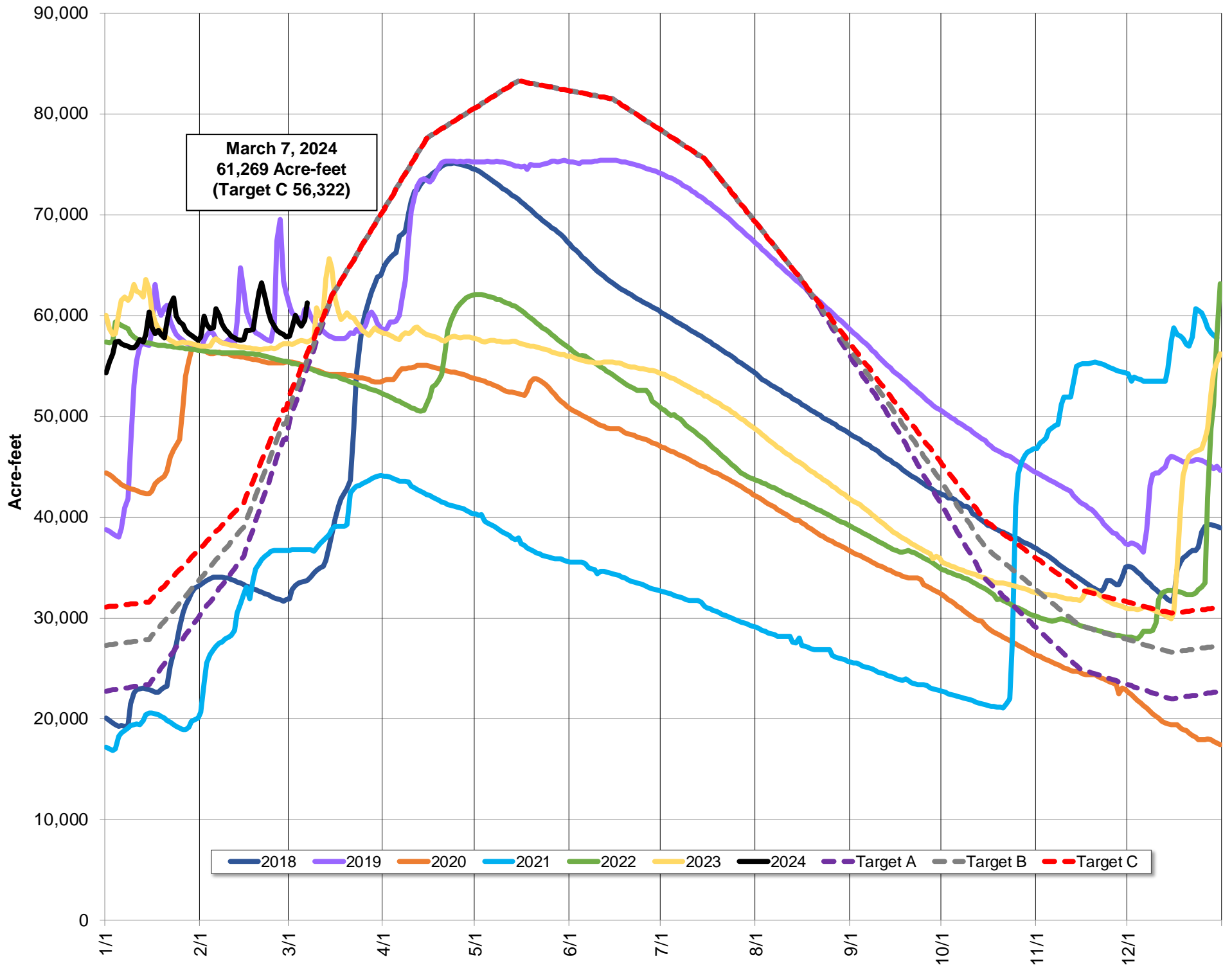
Potter Valley Project

PVP Diversion (cfs)	March 7, 2024	46
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2023 - March 7, 2024	317,939	2,000
	Last 7 days	36,368	5,195

*Inflow calculation based on criteria established in D1610

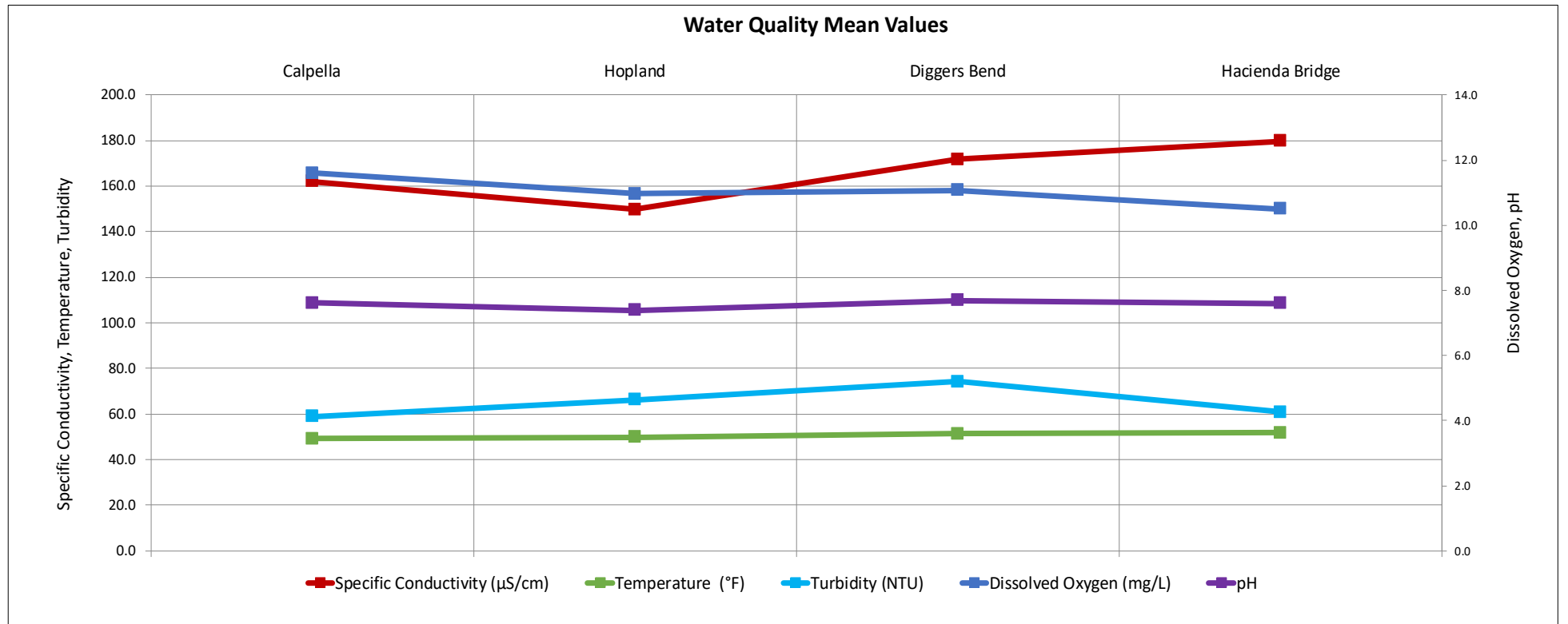
Lake Pillsbury Storage 2018 - 2024 and Target Storage Scenarios



Russian River Flows (March 1, 2024 - March 7, 2024)

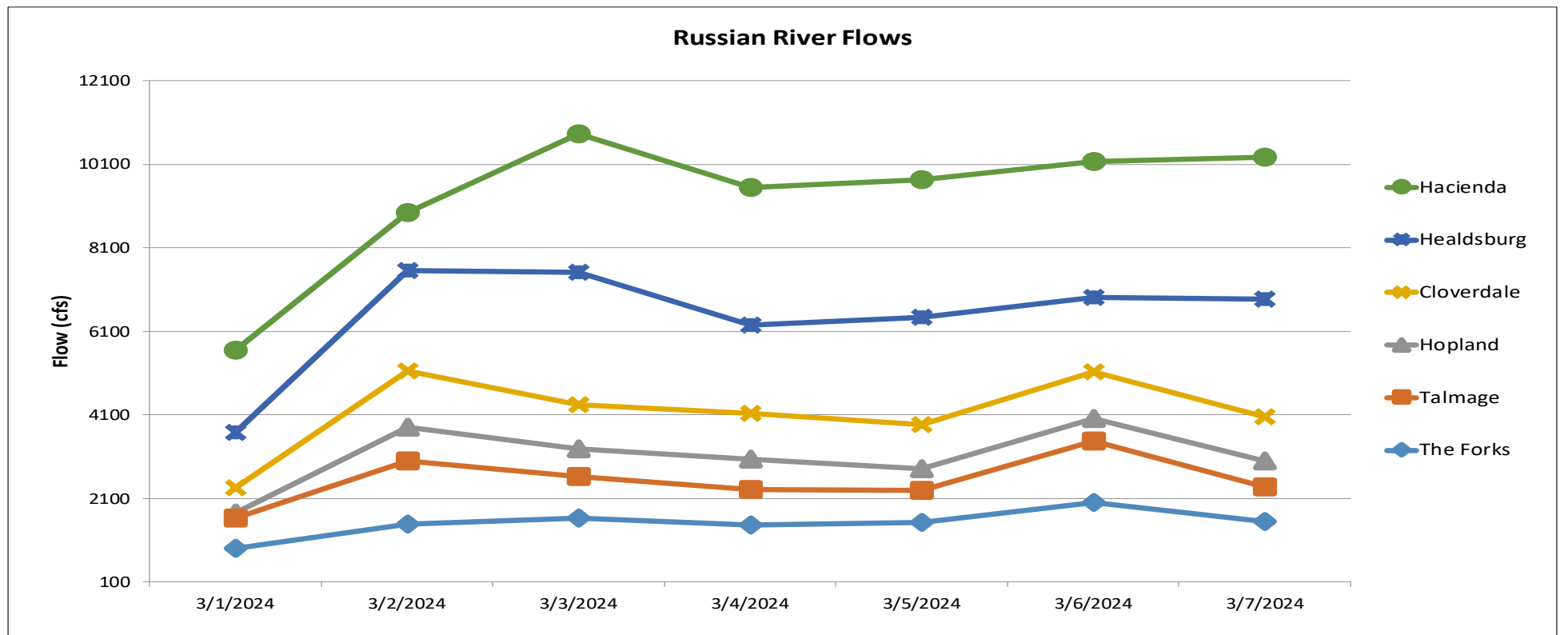
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	45.7	47.1		47.5	47.8		49.1	
	Max	53.2	52.9		54.1	54.5		54.3	
	Mean	49.1	49.8		50.9	51.3		51.8	
Specific Conductivity (µS/cm)	Min	78.0	122.0			143.0		155.0	
	Max	220.0	212.0			226.0		224.0	
	Mean	162.1	149.8			171.9		179.9	
Dissolved Oxygen (mg/L)	Min	10.9	9.9			10.6		10.0	
	Max	12.2	11.5			11.6		11.0	
	Mean	11.6	11.0			11.1		10.5	
Dissolved Oxygen (% Saturation)	Min	99.0	91.0			97.0		92.3	
	Max	102.8	99.5			101.6		96.5	
	Mean	101.5	96.8			99.7		95.1	
pH	Min	7.5	7.1			7.6		7.5	
	Max	7.8	7.6			7.8		7.6	
	Mean	7.6	7.4			7.7		7.6	
Turbidity (NTU)	Min	17.5	21.4			36.0		34.9	
	Max	411.0	237.0			149.0		122.0	
	Mean	59.0	66.2			74.2		60.9	

*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	Mar 1, 2024	Mar 2, 2024	Mar 3, 2024	Mar 4, 2024	Mar 5, 2024	Mar 6, 2024	Mar 7, 2024
The Forks*	901	1475	1629	1468	1531	2002	1556
Talmage USGS 11462080	1620	2987	2633	2306	2299	3464	2376
Hopland USGS 11462500	1755	3801	3281	3044	2810	4021	2999
Cloverdale USGS 11463000	2347	5159	4348	4136	3858	5139	4058
Healdsburg USGS 11464000	3681	7553	7505	6244	6447	6917	6871
Hacienda USGS 11467000	5648	8949	10838	9550	9729	10169	10275

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

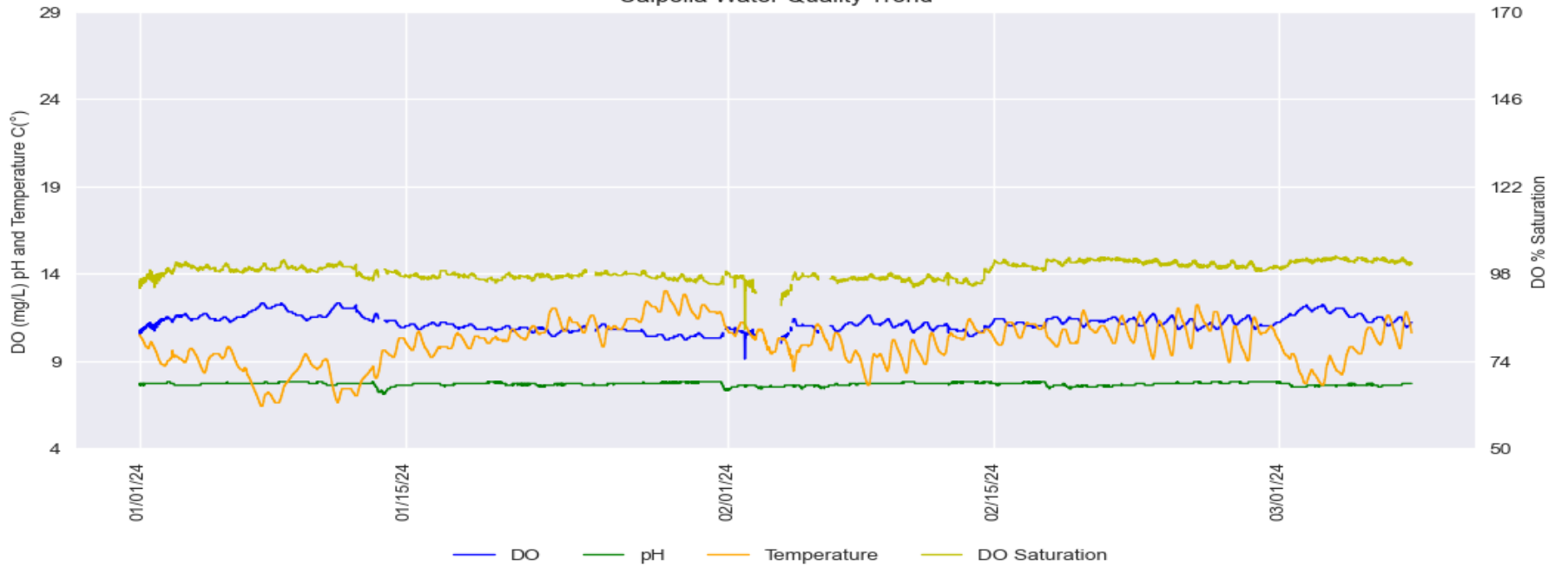


Russian River Water Quality January 1, 2024 – March 7, 2024

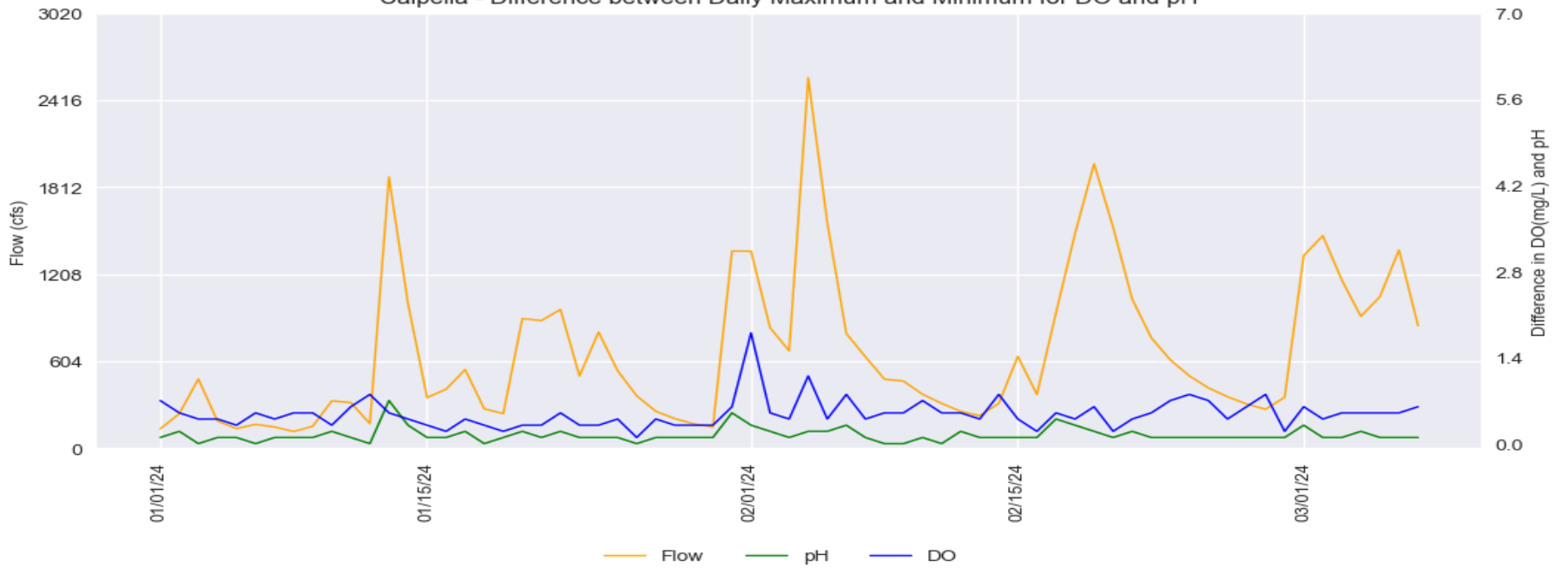
Provisional Data Subject to Revision

Calpella

Calpella Water Quality Trend

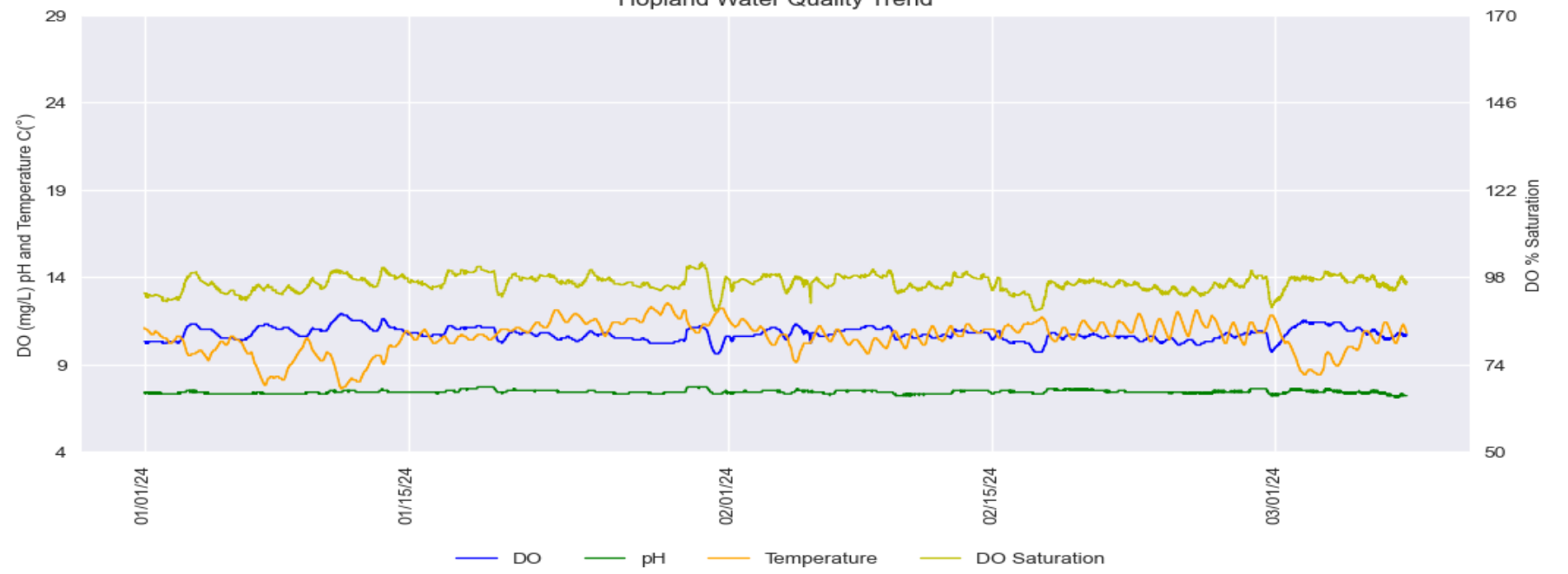


Calpella - Difference between Daily Maximum and Minimum for DO and pH

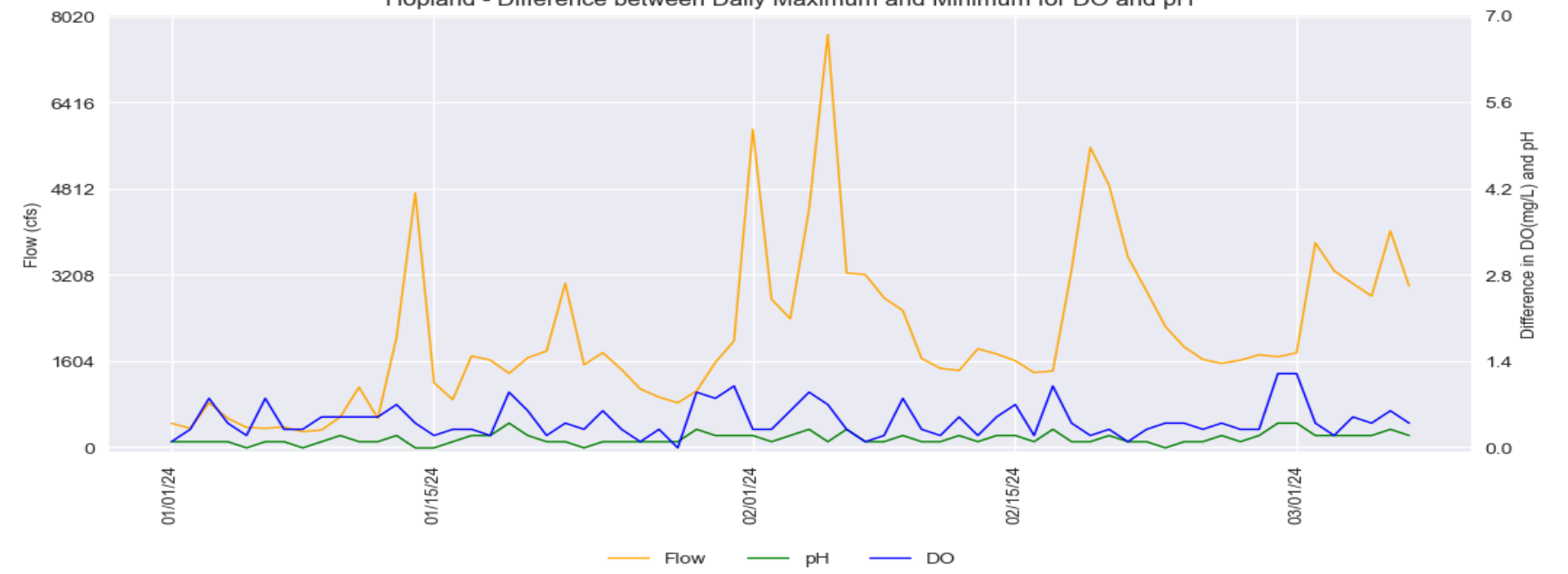


Hopland

Hopland Water Quality Trend



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

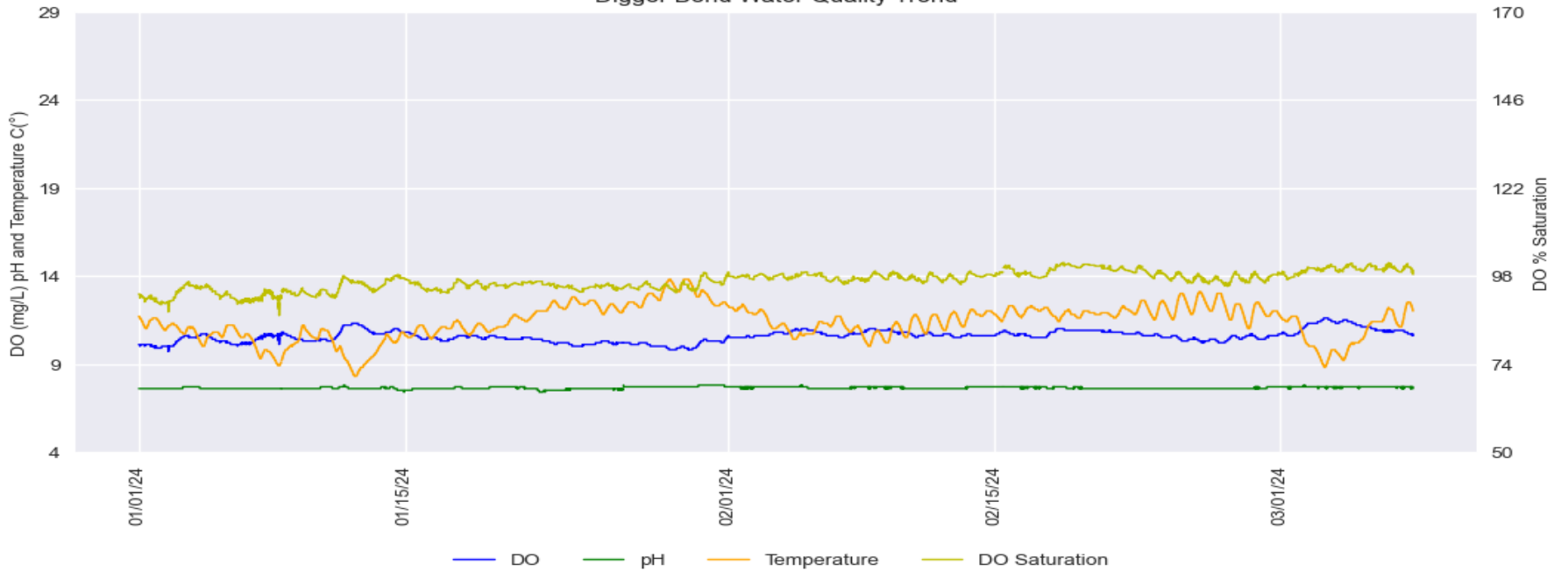


Russian River Water Quality January 1, 2024 – March 7, 2024

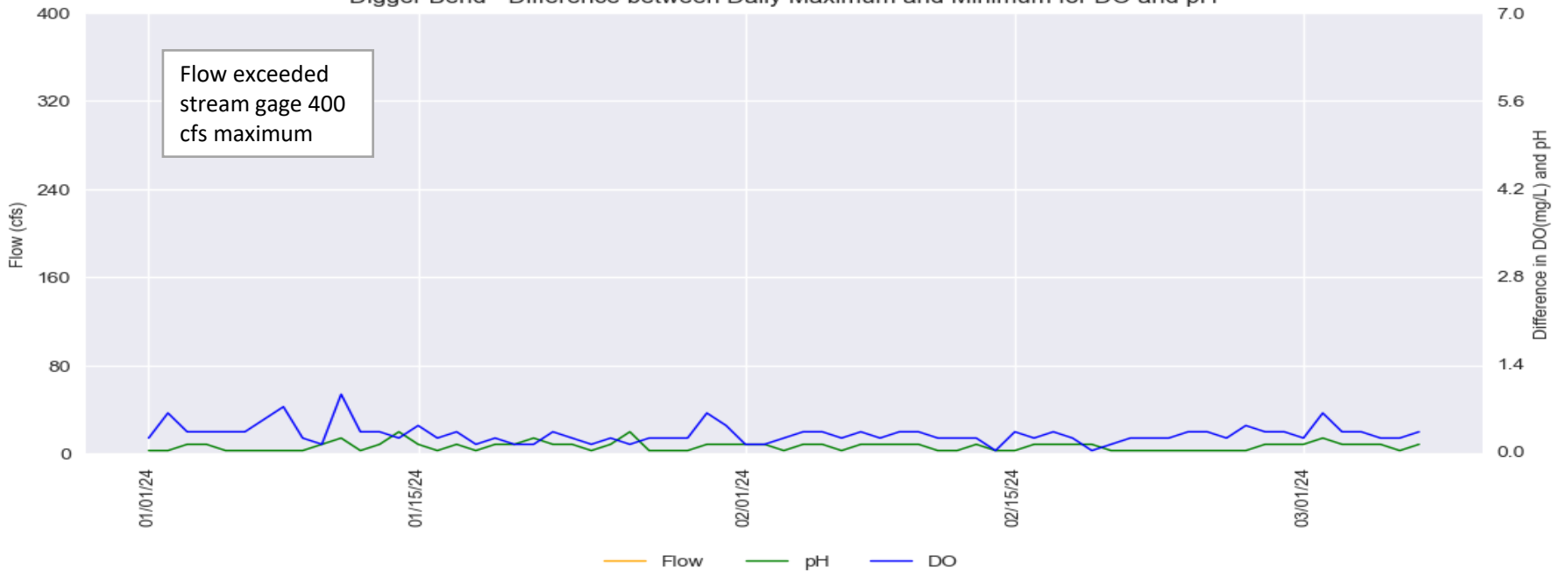
Provisional Data Subject to Revision

Digger Bend

Digger Bend Water Quality Trend

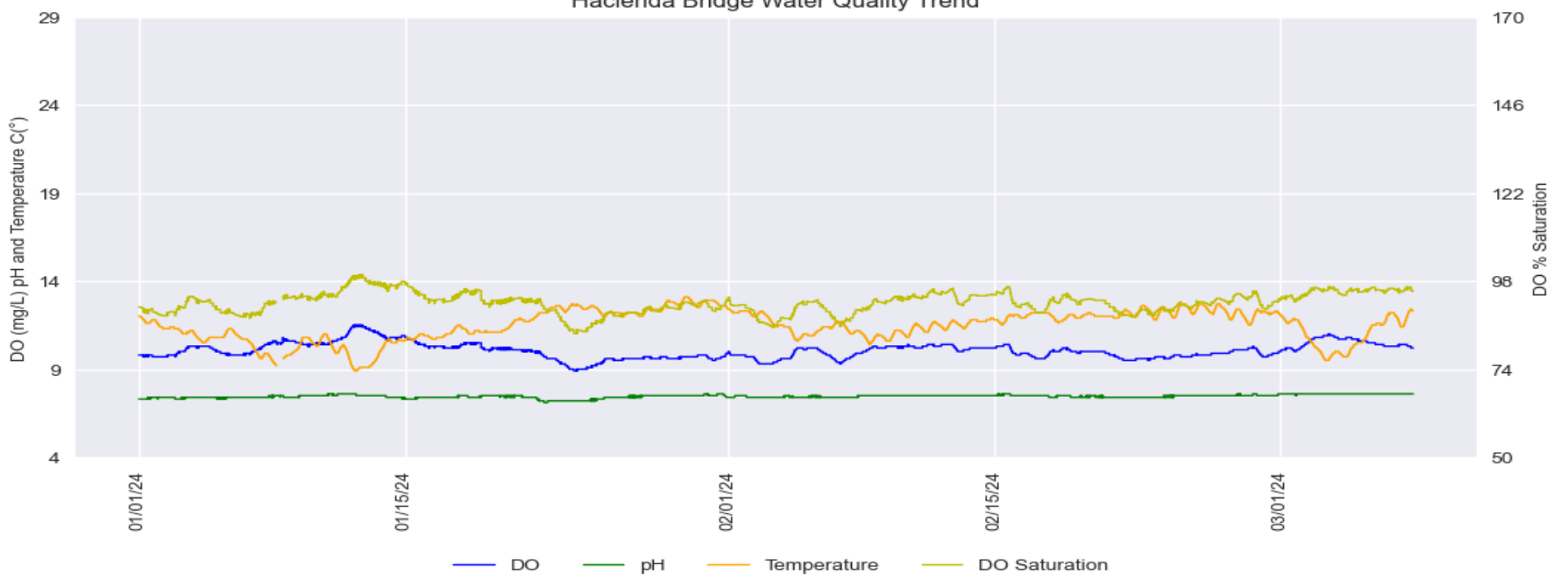


Digger Bend - Difference between Daily Maximum and Minimum for DO and pH

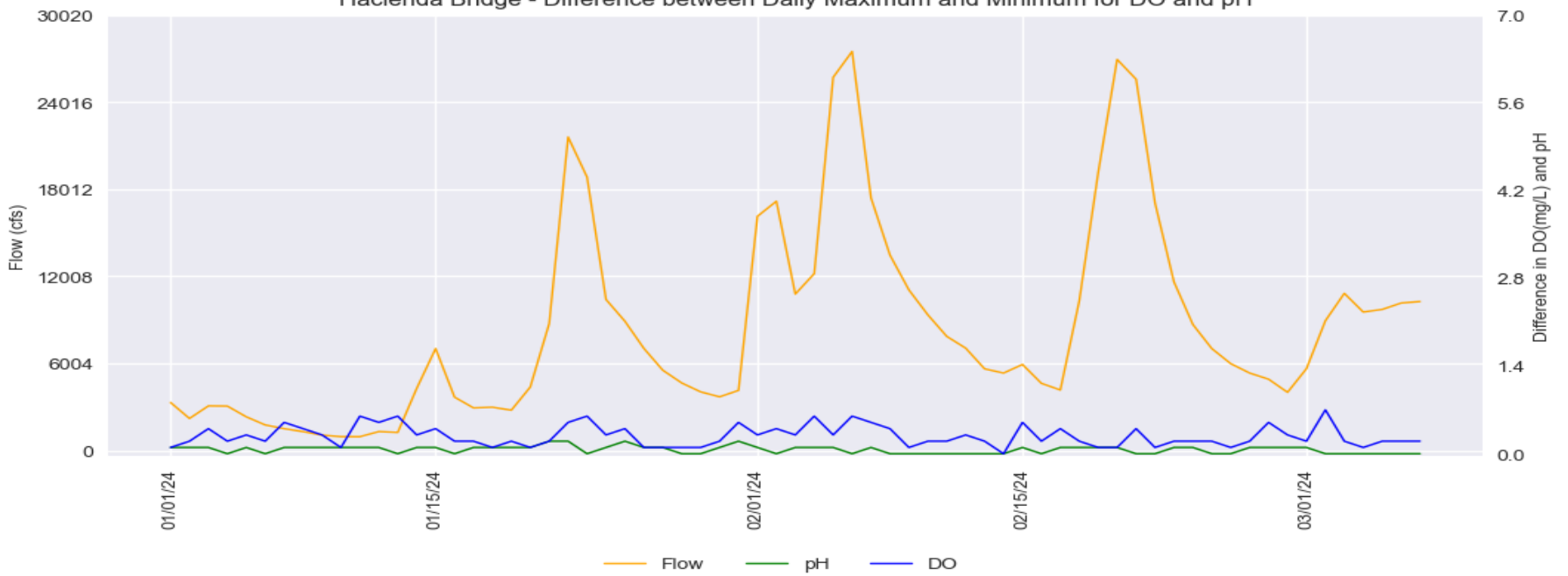


Hacienda Bridge

Hacienda Bridge Water Quality Trend



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

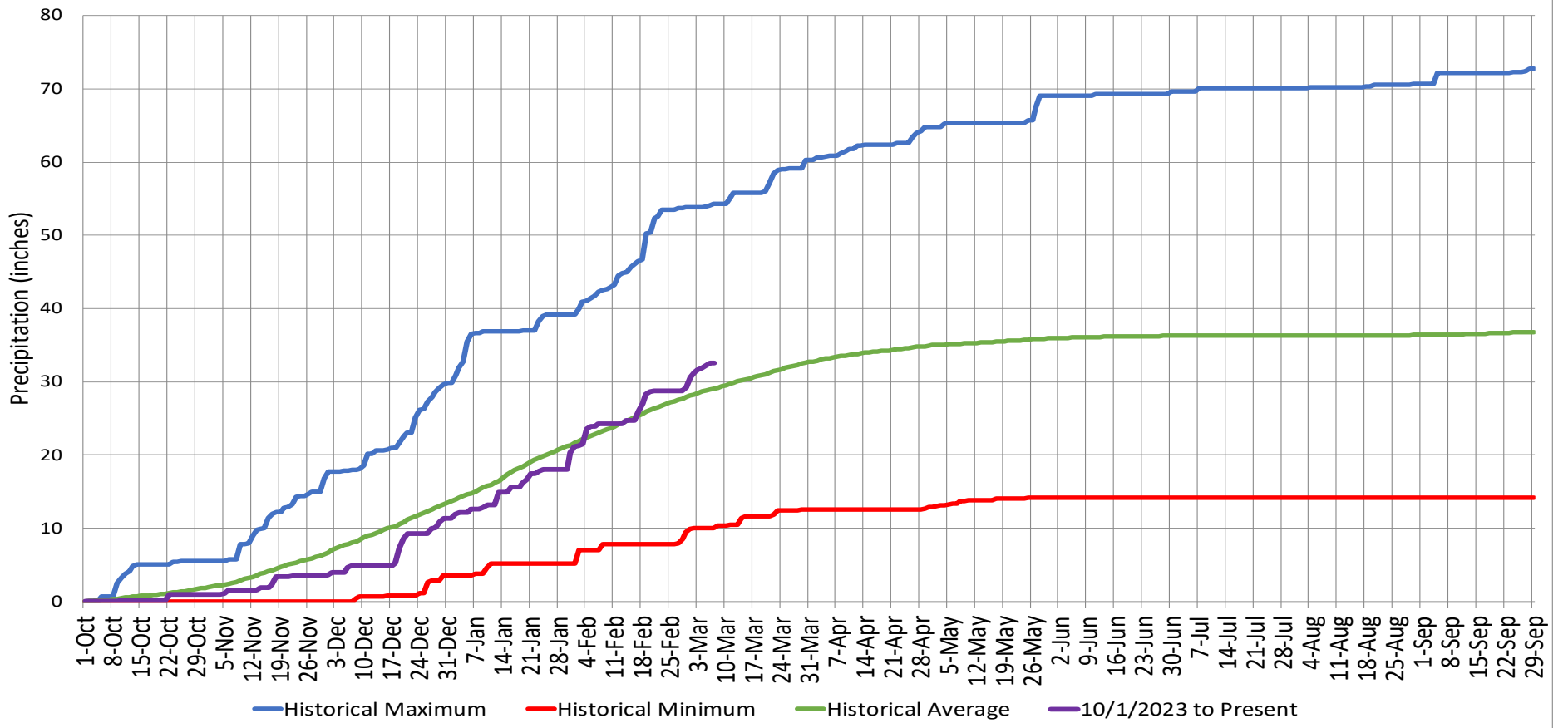


Precipitation

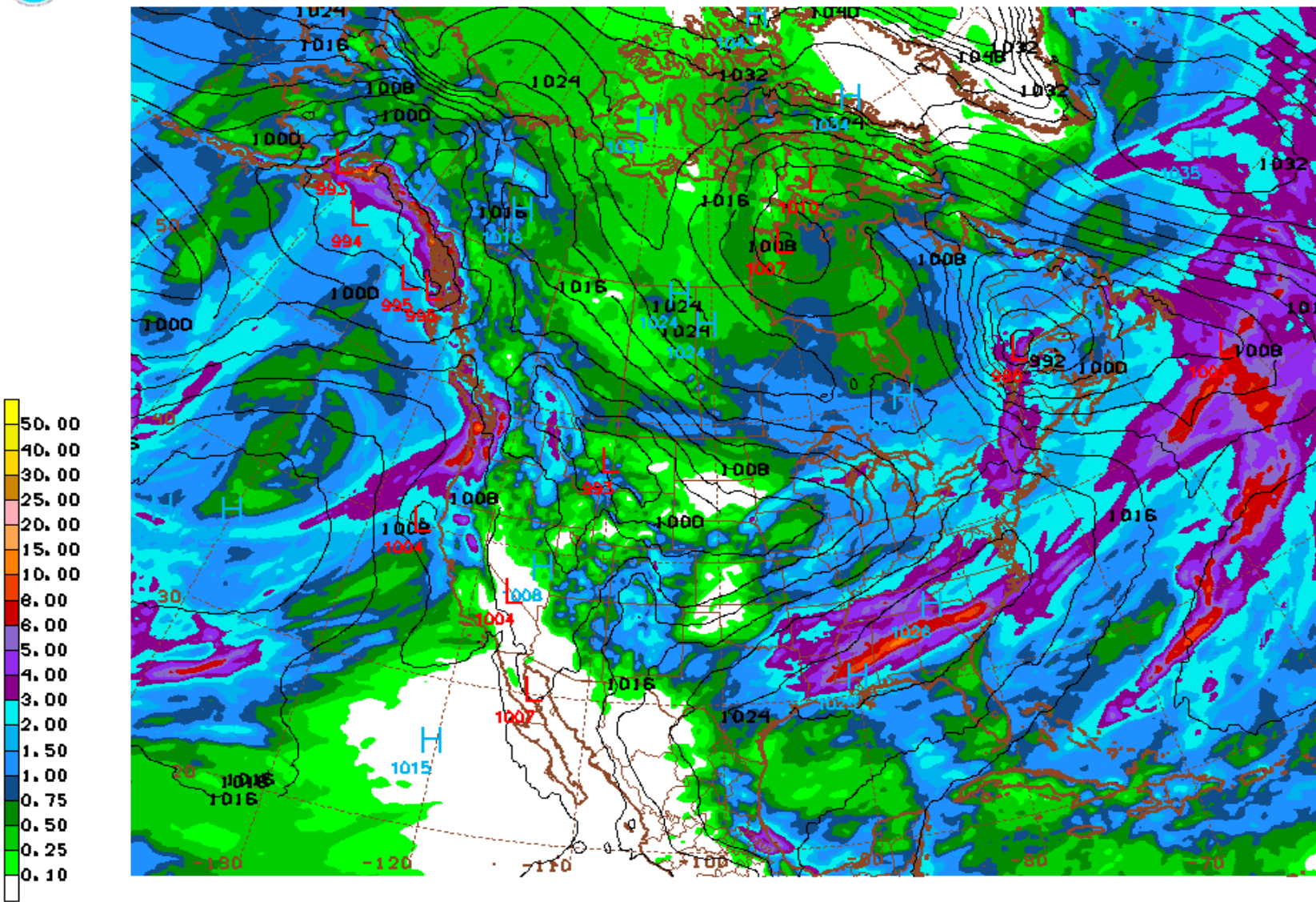
Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

Date Range	Cumulative (inches)
Oct 1, 2023 - Mar 7, 2024	32.54
Last 7 Days*	3.35

Cumulative Precipitation Comparison of Current Year versus Historic Record



6FS 03/11/24 12UTC 384HR FCST VALID WED 03/27/24 12UTC NOAA/NWS/NCEP



6FS WED 240327/1200V384 EMSL (4MB), 384HR ACCUMULATED PRECIP (IN)

Date Range
Mar 11 - Mar 27, 2024

Forecasted Cumulative (inches)
2.10