



State Water Resources Control Board  
 Temporary Urgency Change Order (12/27/2023)  
 Russian River Hydrologic & Water Quality Report  
 March 8, 2024 - March 14, 2024

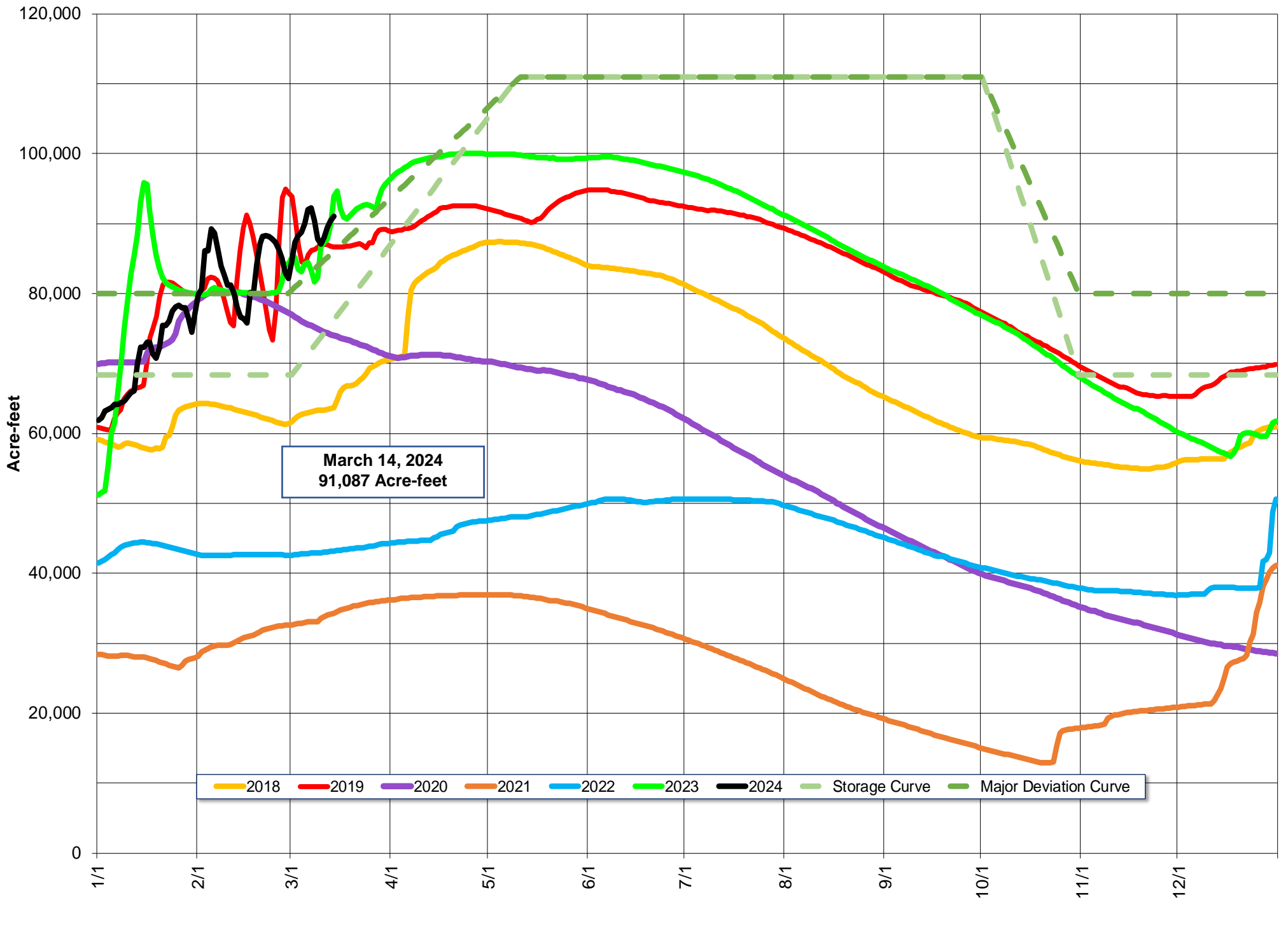
Prepared as a requirement of the Order approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A, 12949, 12950, and 16596 (Applications 12919A, 15736, 15737, and 19351).

**Instream Flow Requirements as of March 14, 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**



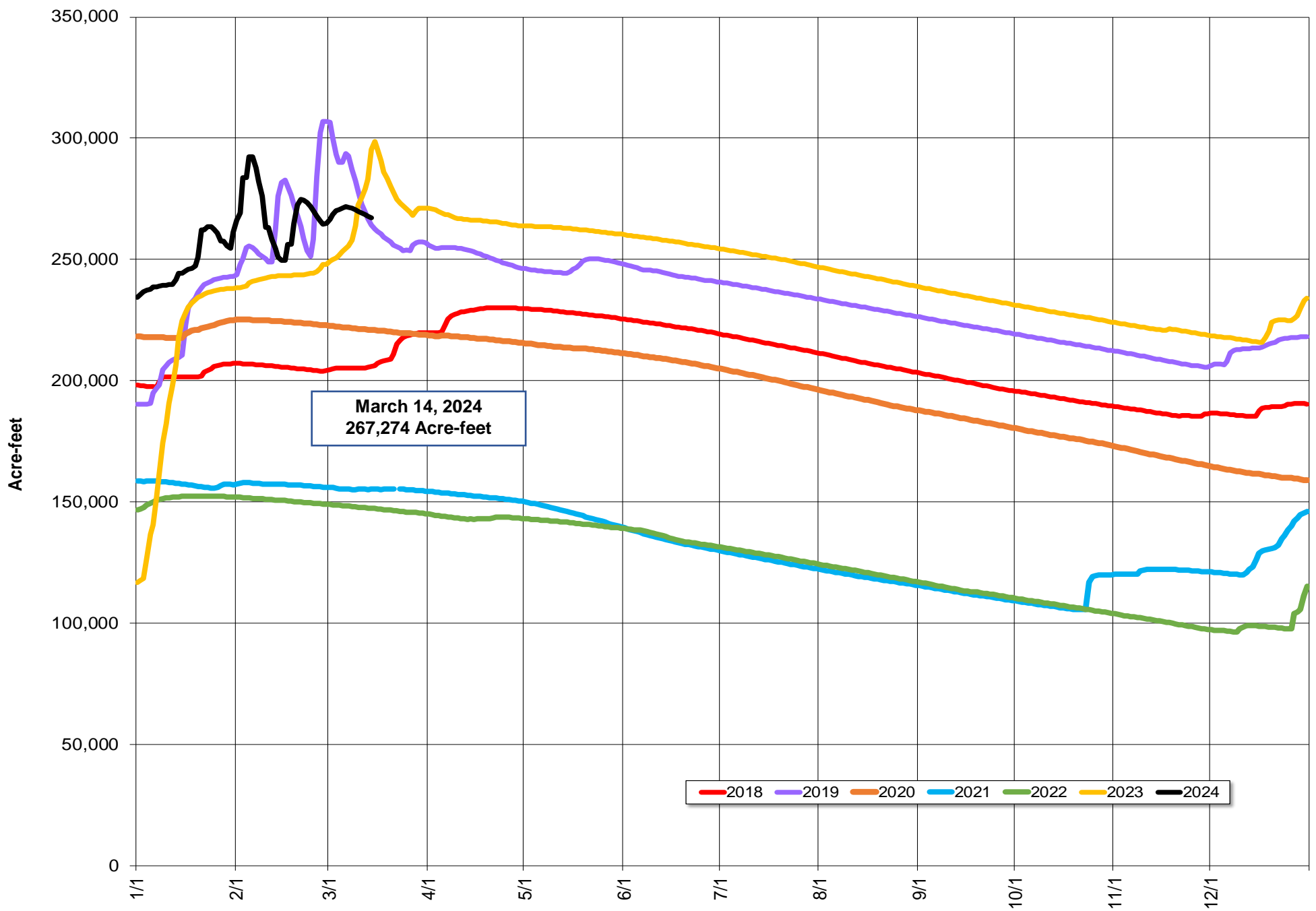
Storage (acre-feet)	March 14, 2024	<b>91,087</b>	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
	Last 7 days	<b>13,149</b>	<b>438</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>292</b>
		Max	<b>737</b>
		Mean	<b>537</b>
Release (cfs)	Last 7 days	Min	<b>26</b>
		Max	<b>1,986</b>
		Mean	<b>534</b>

# Lake Sonoma



Todd Schram, February 10, 2024

## Lake Sonoma Storage 2018-2024



Storage (acre-feet)	March 14, 2024	<b>267,274</b>	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	<b>12,744</b>	<b>425</b>
	Last 7 days	<b>-4,389</b>	<b>-627</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>458</b>
		Max	<b>743</b>
		Mean	<b>781</b>
Release (cfs)	Last 7 days	Min	<b>505</b>
		Max	<b>992</b>
		Mean	<b>852</b>

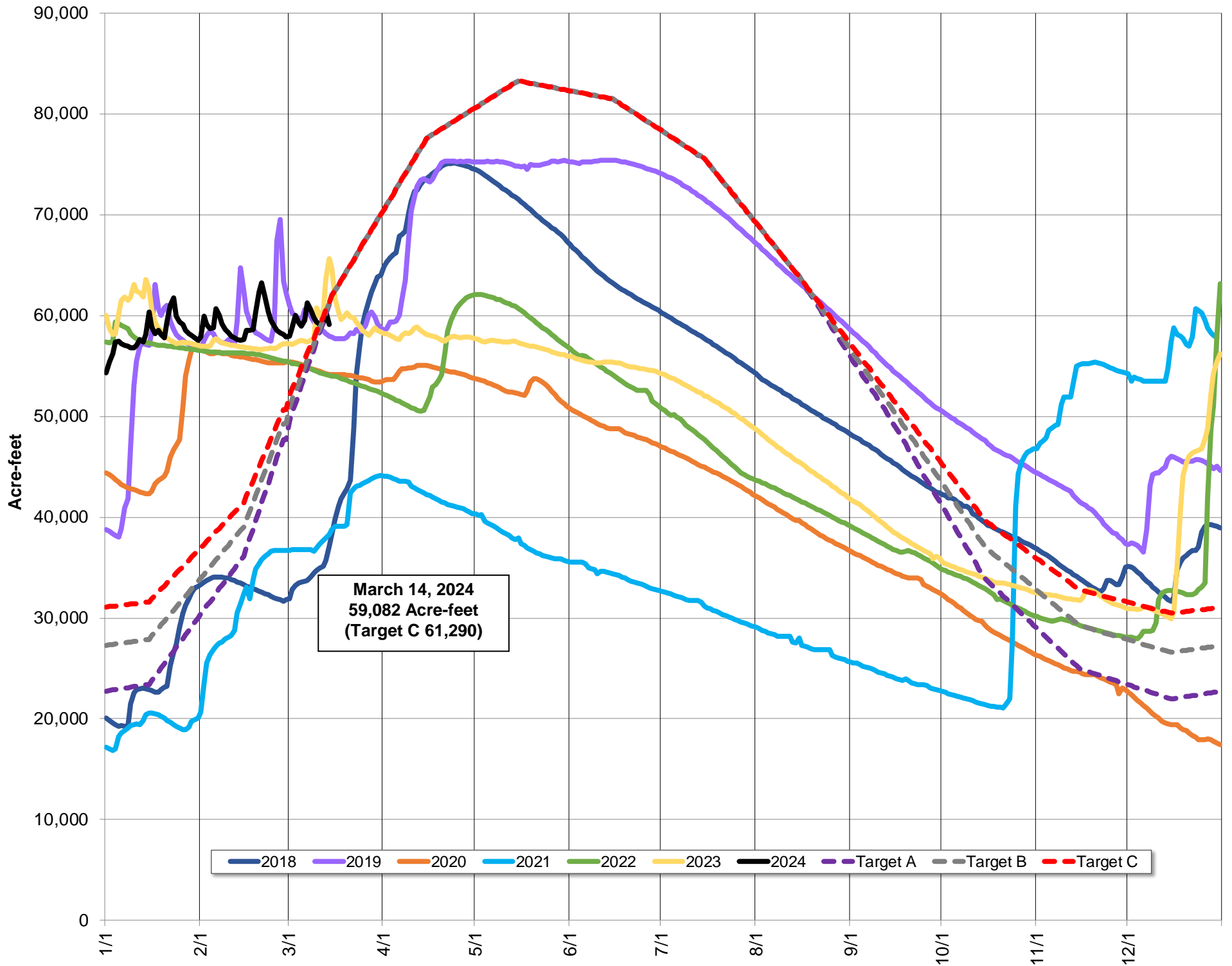
# Potter Valley Project

PVP Diversion (cfs)	March 14, 2024	46
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2023 - March 14, 2024	351,411	2,117
	Last 7 days	26,560	3,794

\*Inflow calculation based on criteria established in D1610

### Lake Pillsbury Storage 2018 - 2024 and Target Storage Scenarios

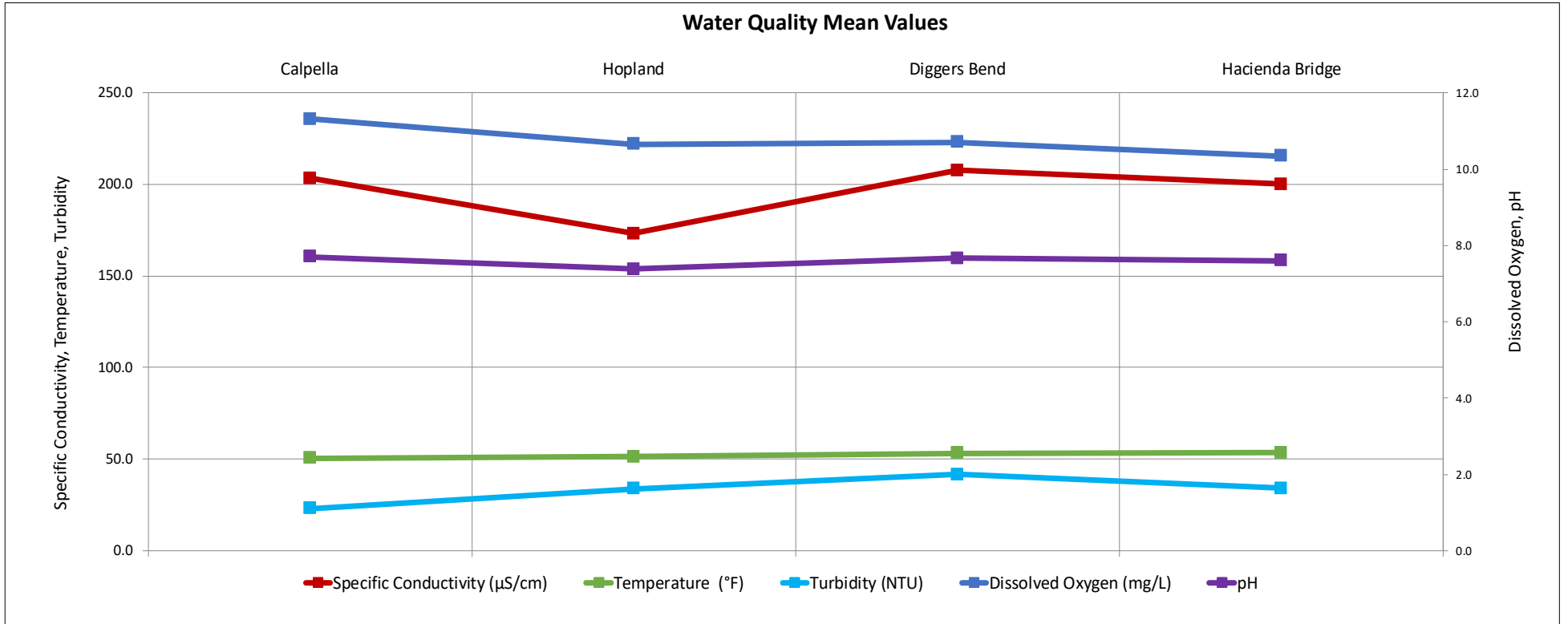


## Russian River Flows (March 8, 2024 - March 14, 2024)

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	47.5	48.9		51.1	51.4		52.2	
	Max	53.8	54.1		55.8	55.6		55.2	
	Mean	50.5	51.3		52.7	53.1		53.5	
Specific Conductivity (µS/cm)	Min	161.0	147.0			178.0		173.0	
	Max	224.0	194.0			240.0		229.0	
	Mean	203.3	173.2			207.8		200.1	
Dissolved Oxygen (mg/L)	Min	10.2	9.9			10.2		10.0	
	Max	11.9	11.1			10.9		10.5	
	Mean	11.3	10.7			10.7		10.3	
Dissolved Oxygen (% Saturation)	Min	94.0	90.7			96.0		93.8	
	Max	102.9	100.4			101.3		97.4	
	Mean	100.9	95.9			98.7		95.9	
pH	Min	7.6	7.2			7.6		7.6	
	Max	7.9	7.6			7.7		7.6	
	Mean	7.7	7.4			7.7		7.6	
Turbidity (NTU)	Min	8.1	11.2			25.1		20.8	
	Max	284.0	148.0			167.0		87.5	
	Mean	23.0	33.6			41.5		34.1	

\*Station operated seasonally

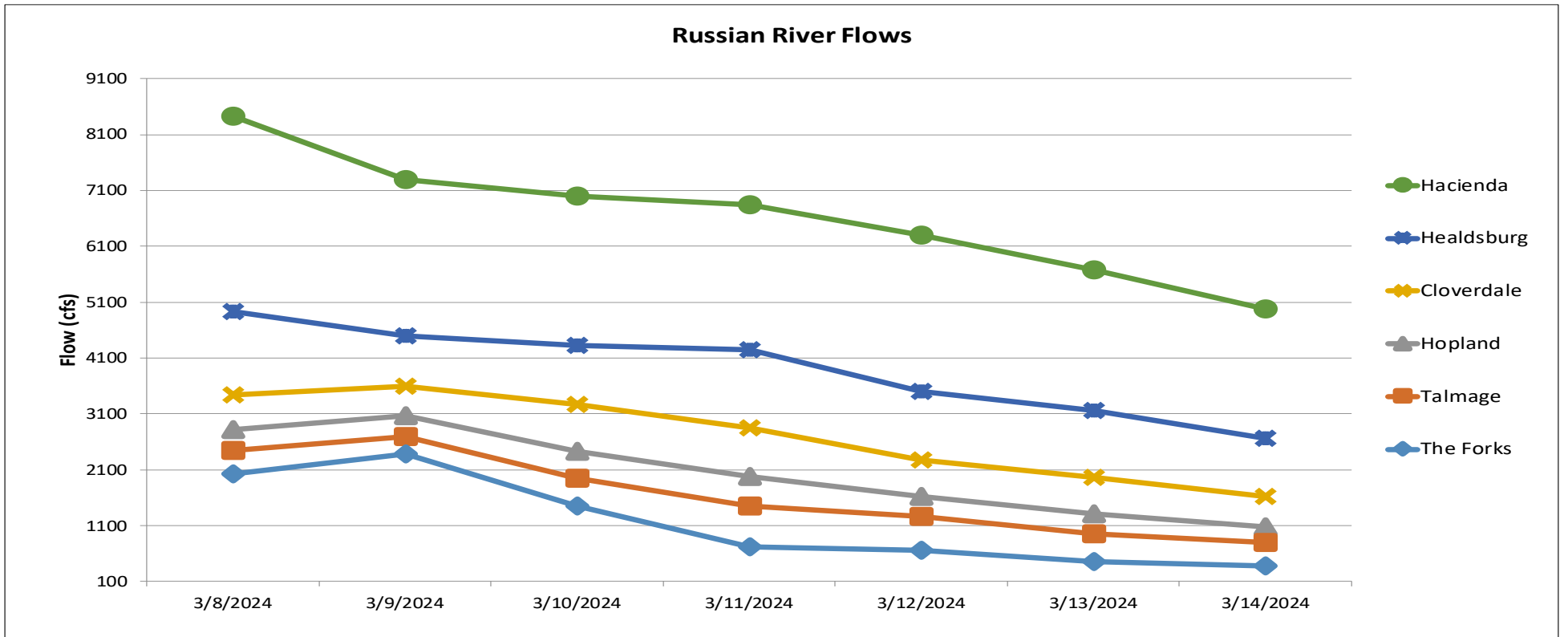
### Water Quality Mean Values



Gage	24-hr Average Flow (cfs)						
	Mar 8, 2024	Mar 9, 2024	Mar 10, 2024	Mar 11, 2024	Mar 12, 2024	Mar 13, 2024	Mar 14, 2024
The Forks*	2023	2386	1455	724	655	457	370
Talmage USGS 11462080	2439	2689	1950	1453	1271	960	790
Hopland USGS 11462500	2812	3066	2432	1971	1626	1308	1072
Cloverdale USGS 11463000	3432	3594	3272	2850	2274	1961	1628
Healdsburg USGS 11464000	4930	4498	4331	4249	3508	3164	2657
Hacienda USGS 11467000	8432	7295	6993	6844	6298	5672	4983

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

### Russian River Flows

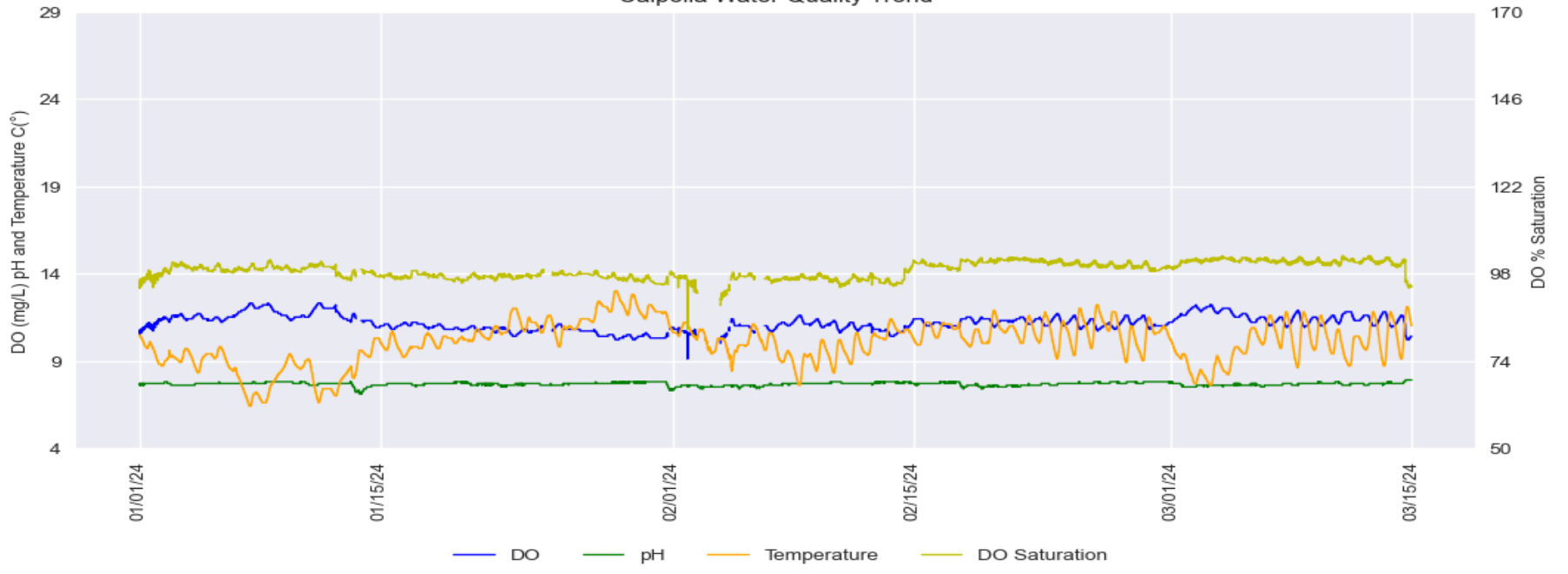


Russian River Water Quality January 1, 2024 – March 14, 2024

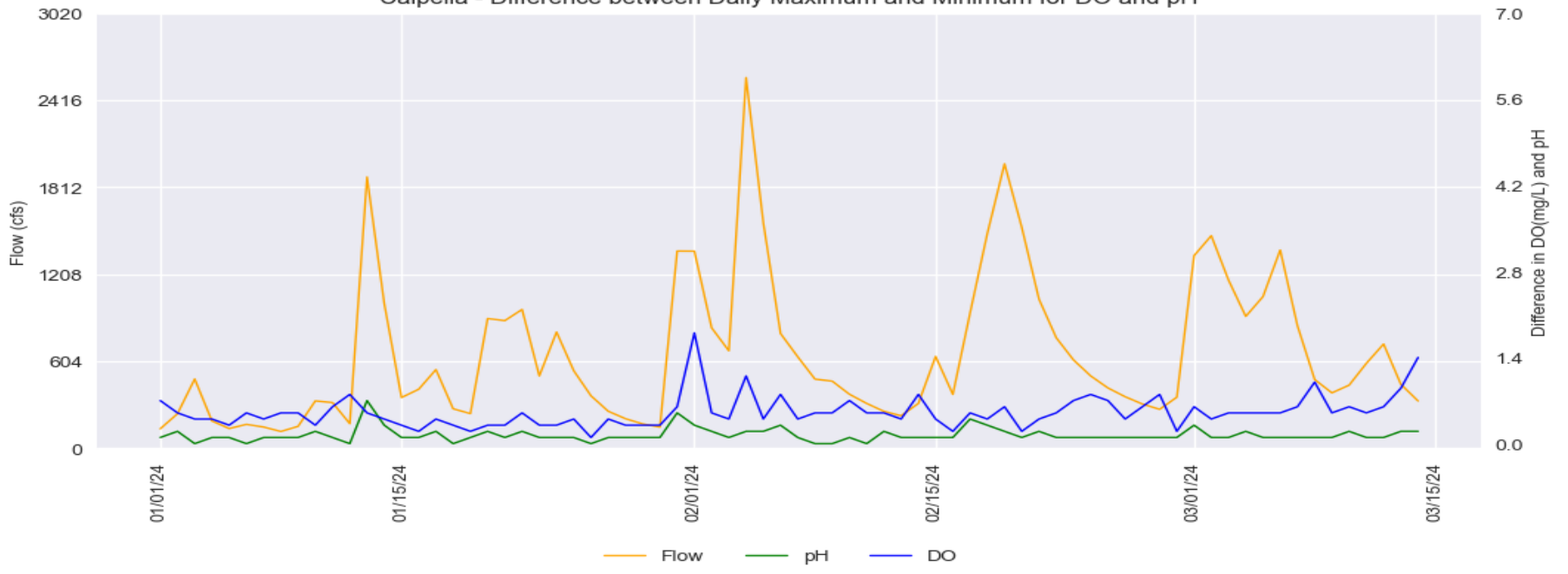
Provisional Data Subject to Revision

**Calpella**

Calpella Water Quality Trend

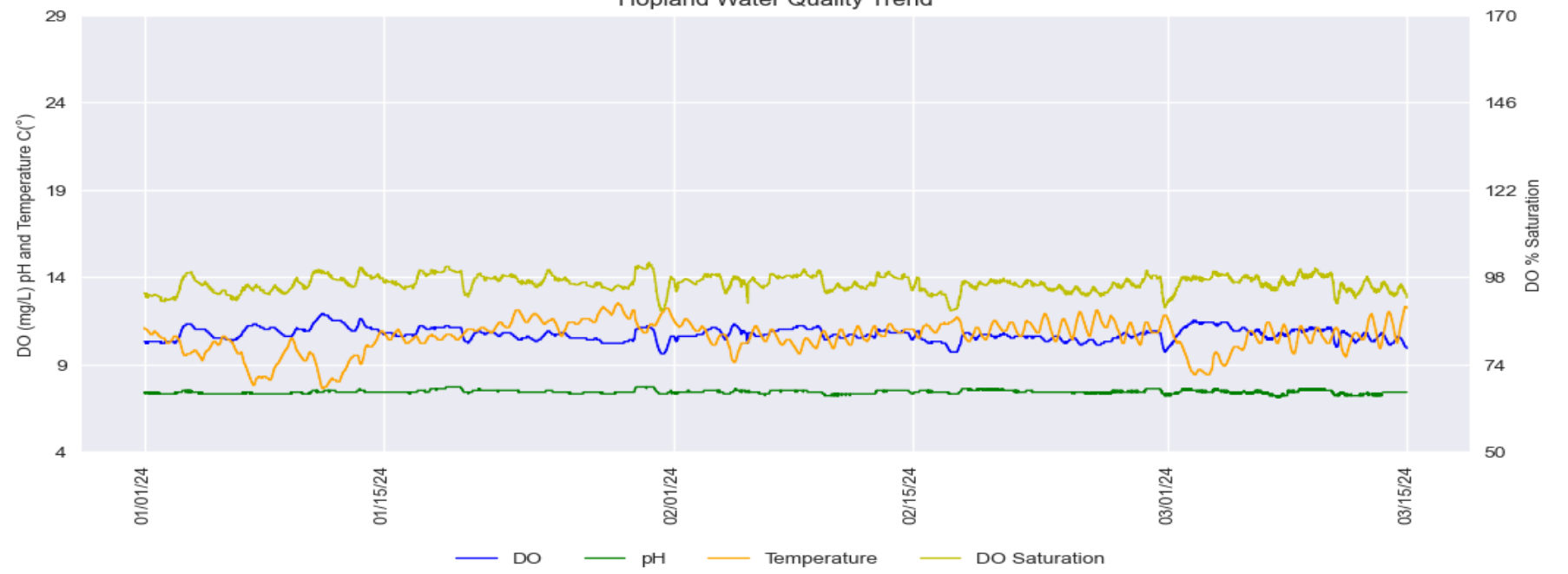


Calpella - Difference between Daily Maximum and Minimum for DO and pH

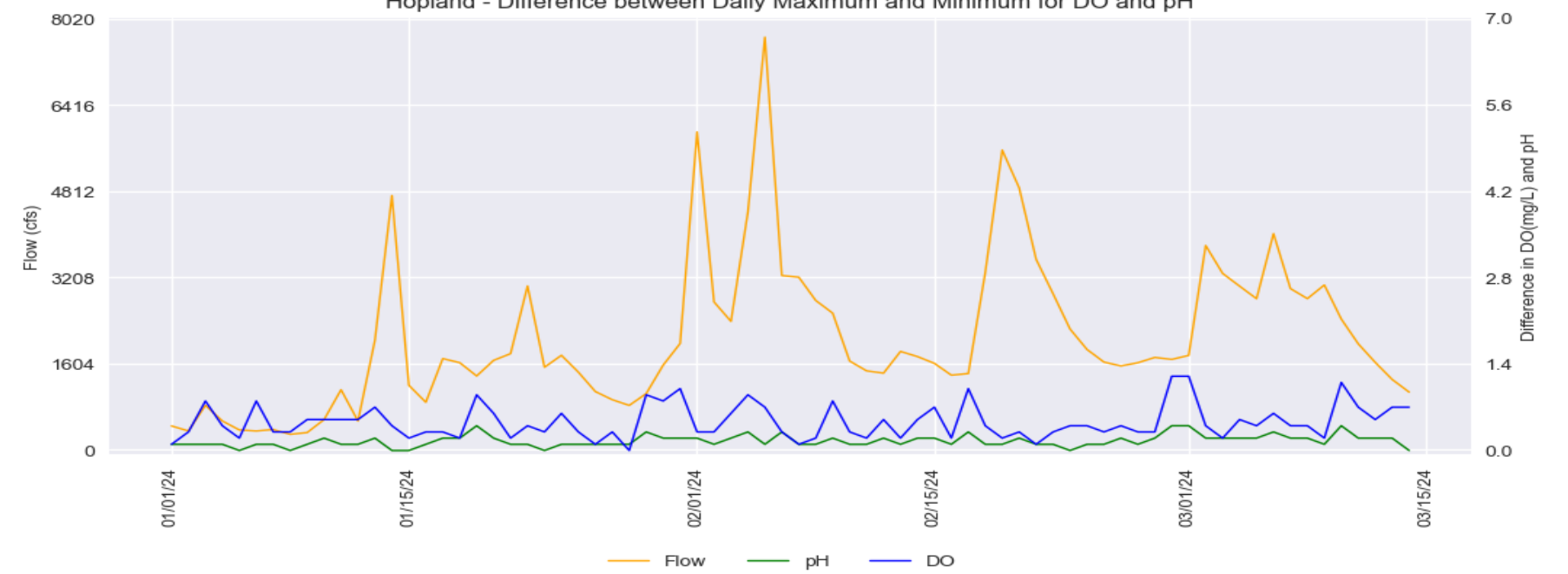


**Hopland**

Hopland Water Quality Trend



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

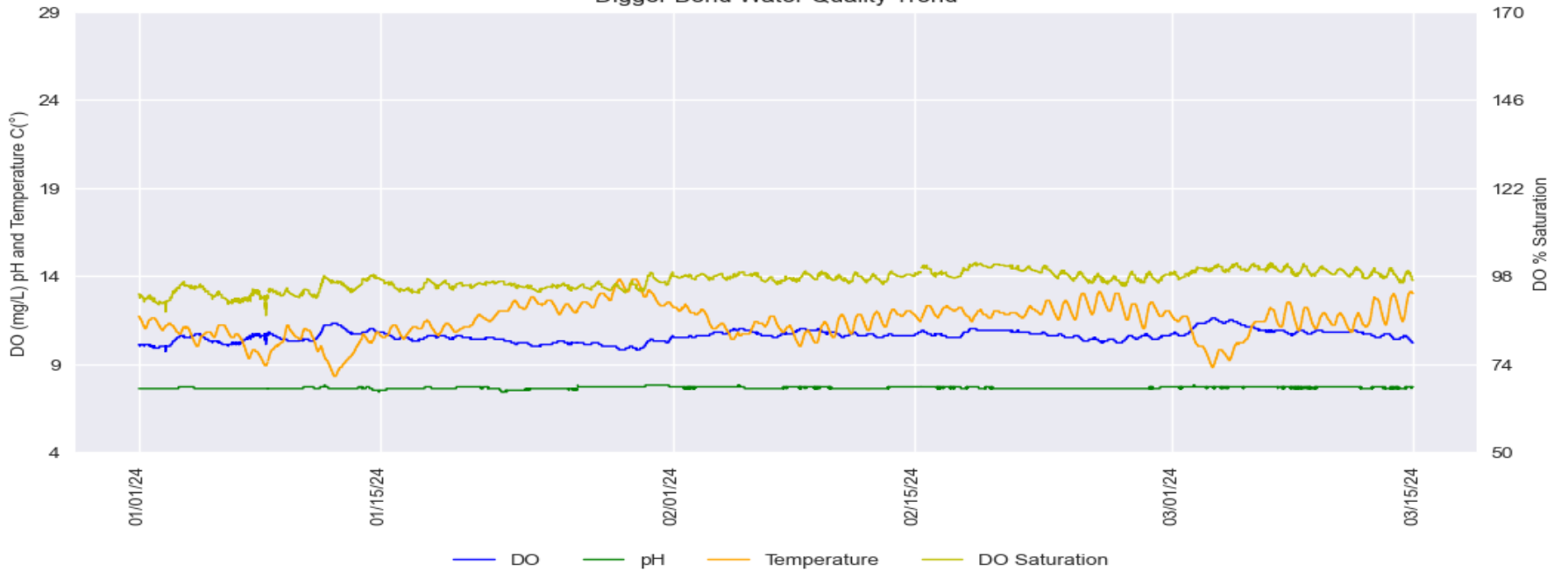


Russian River Water Quality January 1, 2024 – March 14, 2024

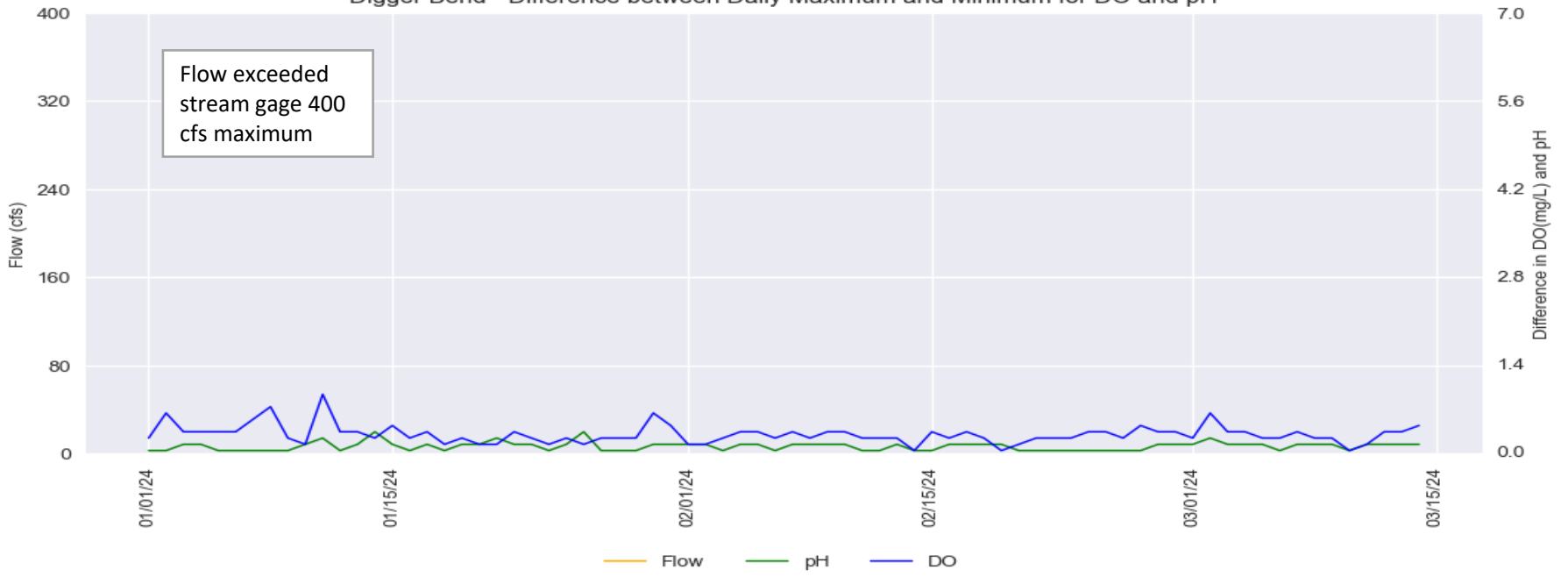
Provisional Data Subject to Revision

Digger Bend

Digger Bend Water Quality Trend

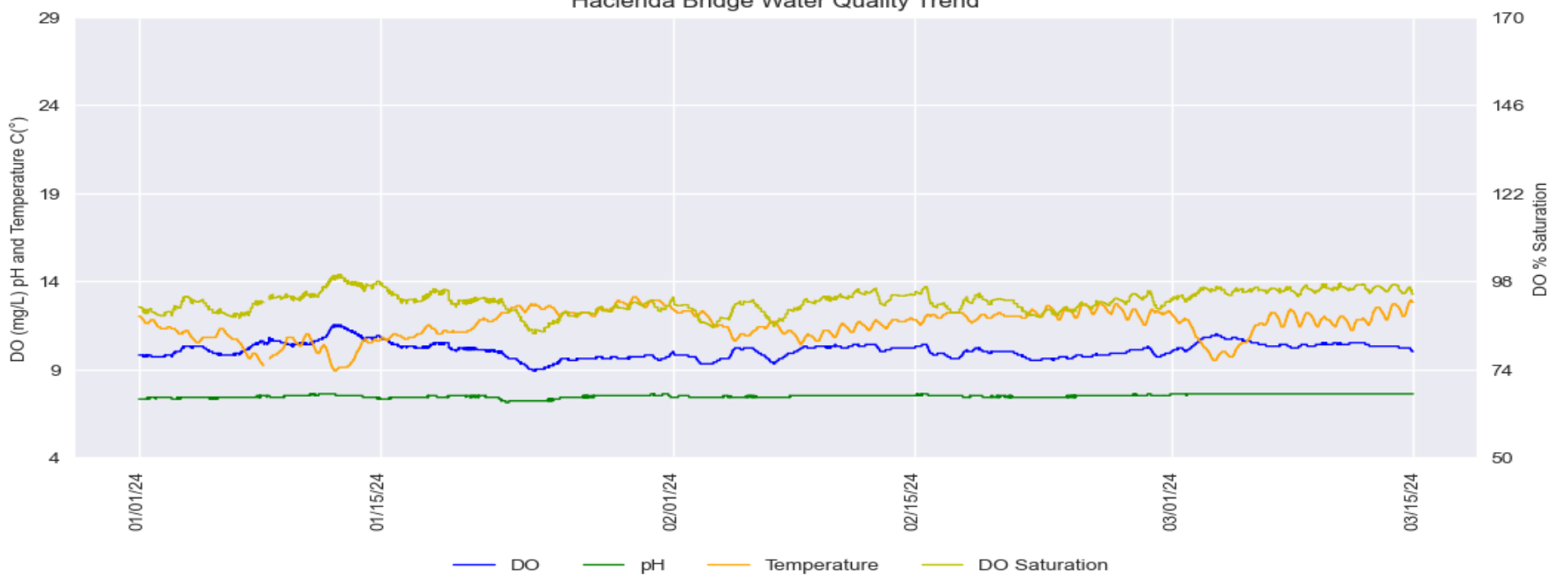


Digger Bend - Difference between Daily Maximum and Minimum for DO and pH

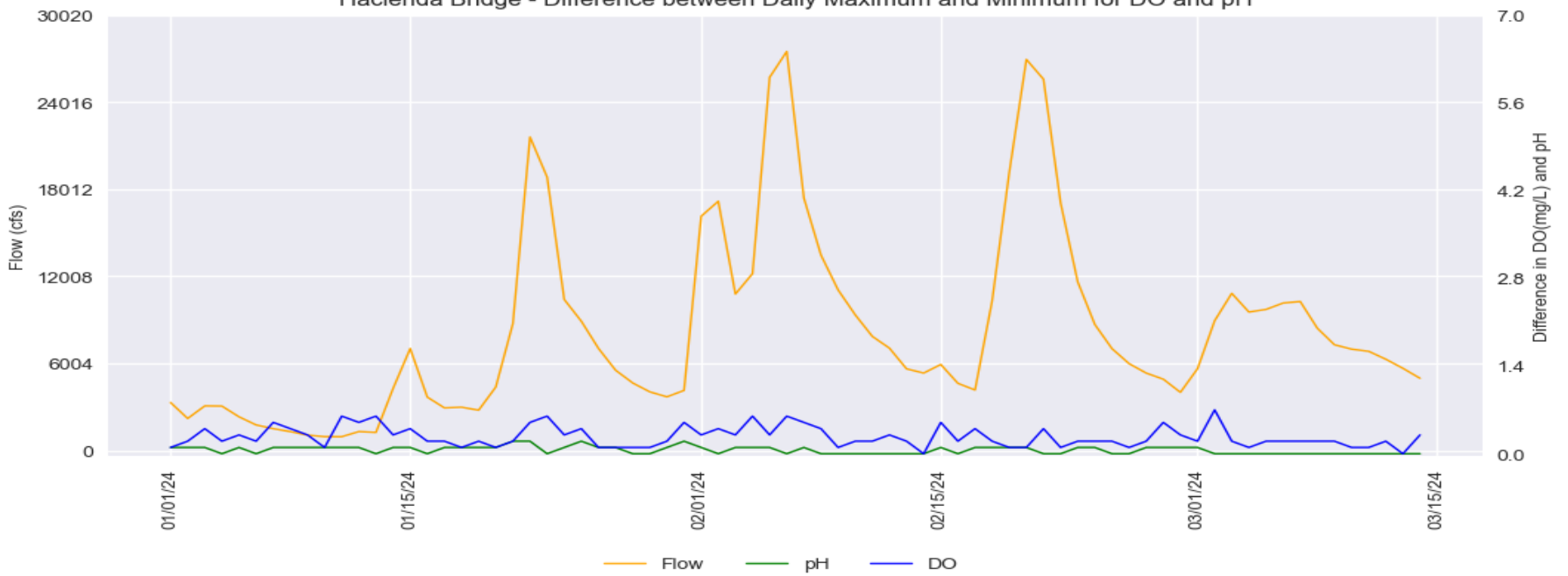


Hacienda Bridge

Hacienda Bridge Water Quality Trend



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

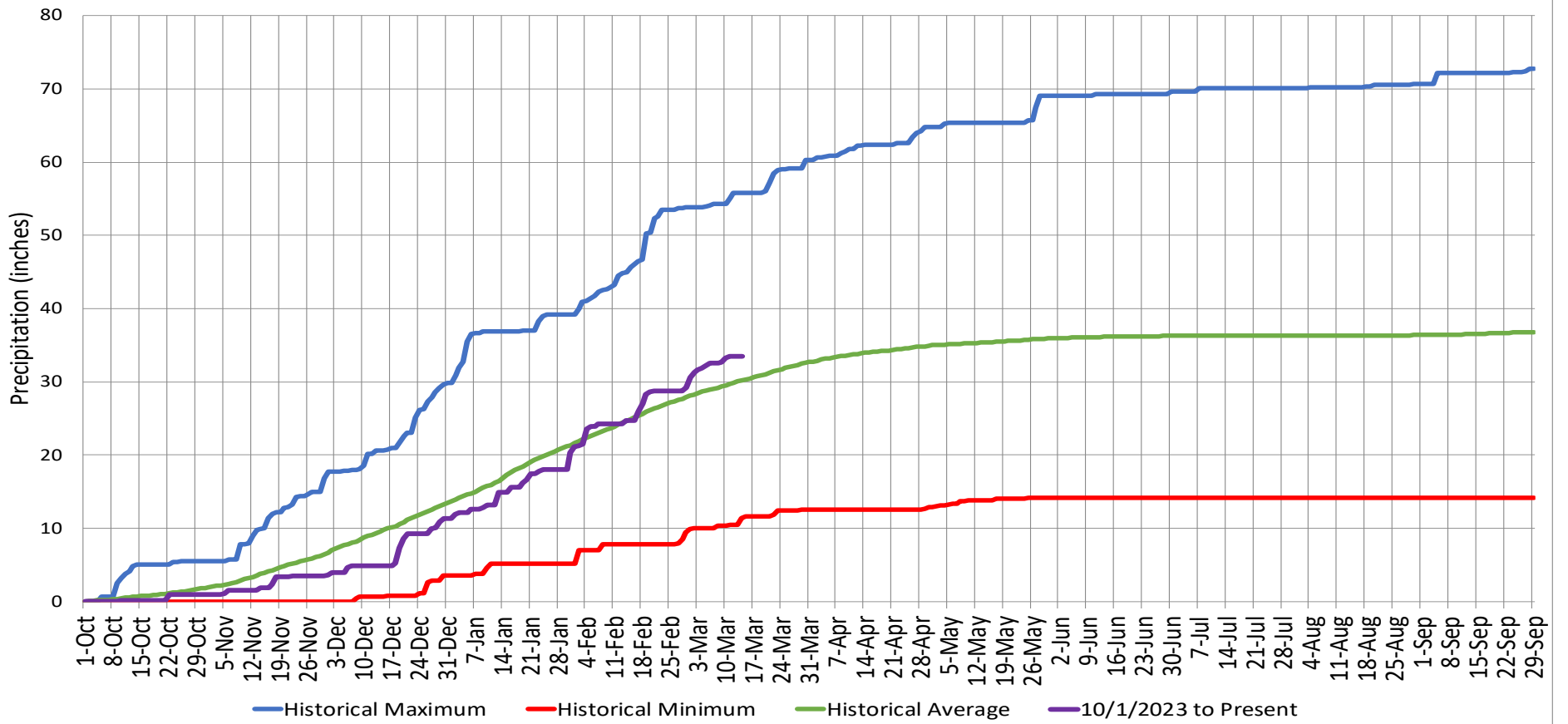


# Precipitation

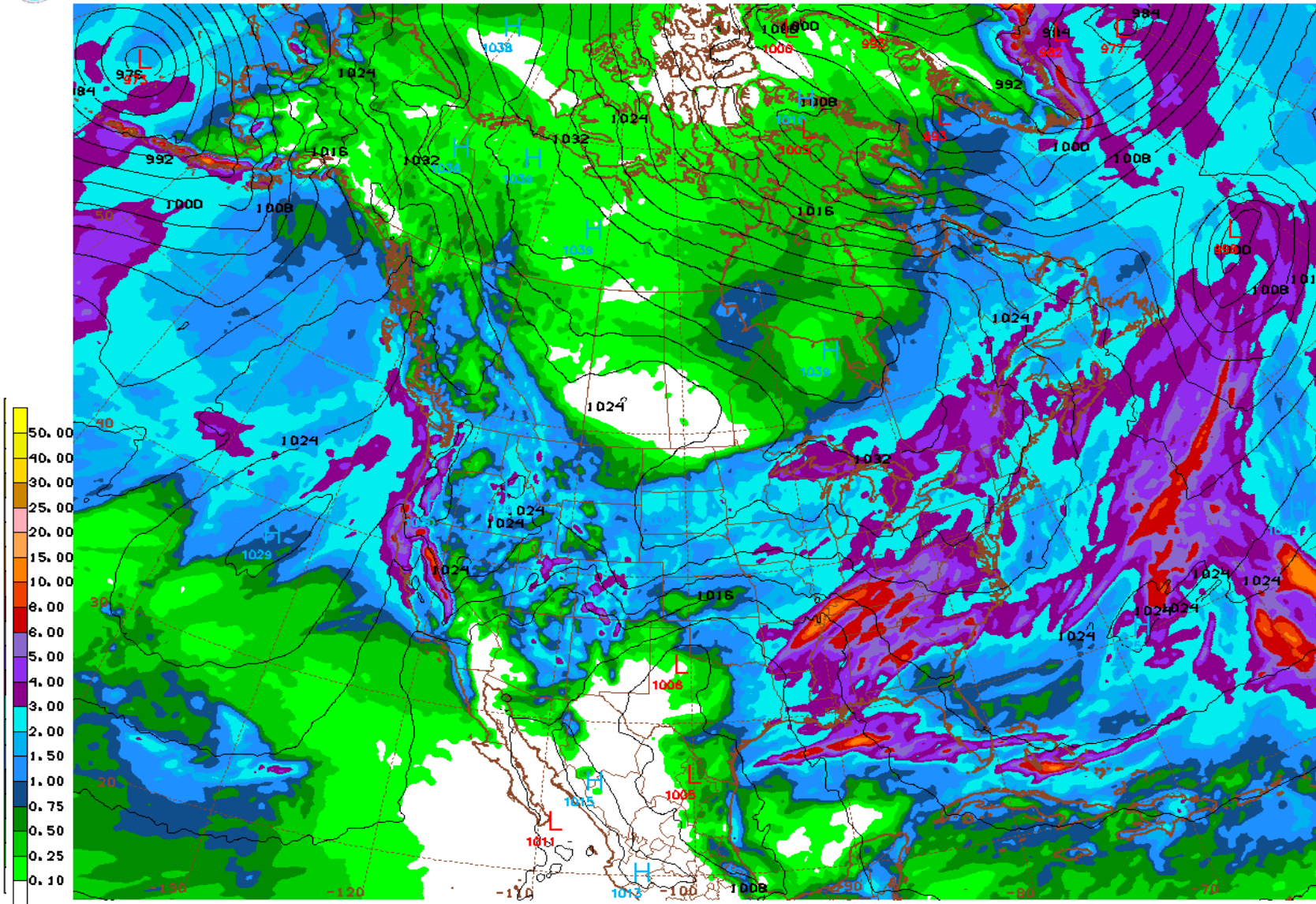
Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

Date Range	Cumulative (inches)
Oct 1, 2023 - Mar 14, 2024	<b>33.51</b>
Last 7 Days*	<b>0.97</b>

Cumulative Precipitation Comparison of Current Year versus Historic Record



6FS 03/18/24 12UTC 384HR FCST VALID MED 04/03/24 12UTC NOAA/NWS/NCEP



6FS MED 240403/1200Y384 EMSL (4MB), 384HR ACCUMULATED PRECIP (IN)  
 Date Range: Mar 18 - Apr 3, 2024  
 Forecasted Cumulative (inches): **4.27**