



State Water Resources Control Board  
 Temporary Urgency Change Order (12/27/2023)  
 Russian River Hydrologic & Water Quality Report  
 May 17, 2024 - May 23, 2024

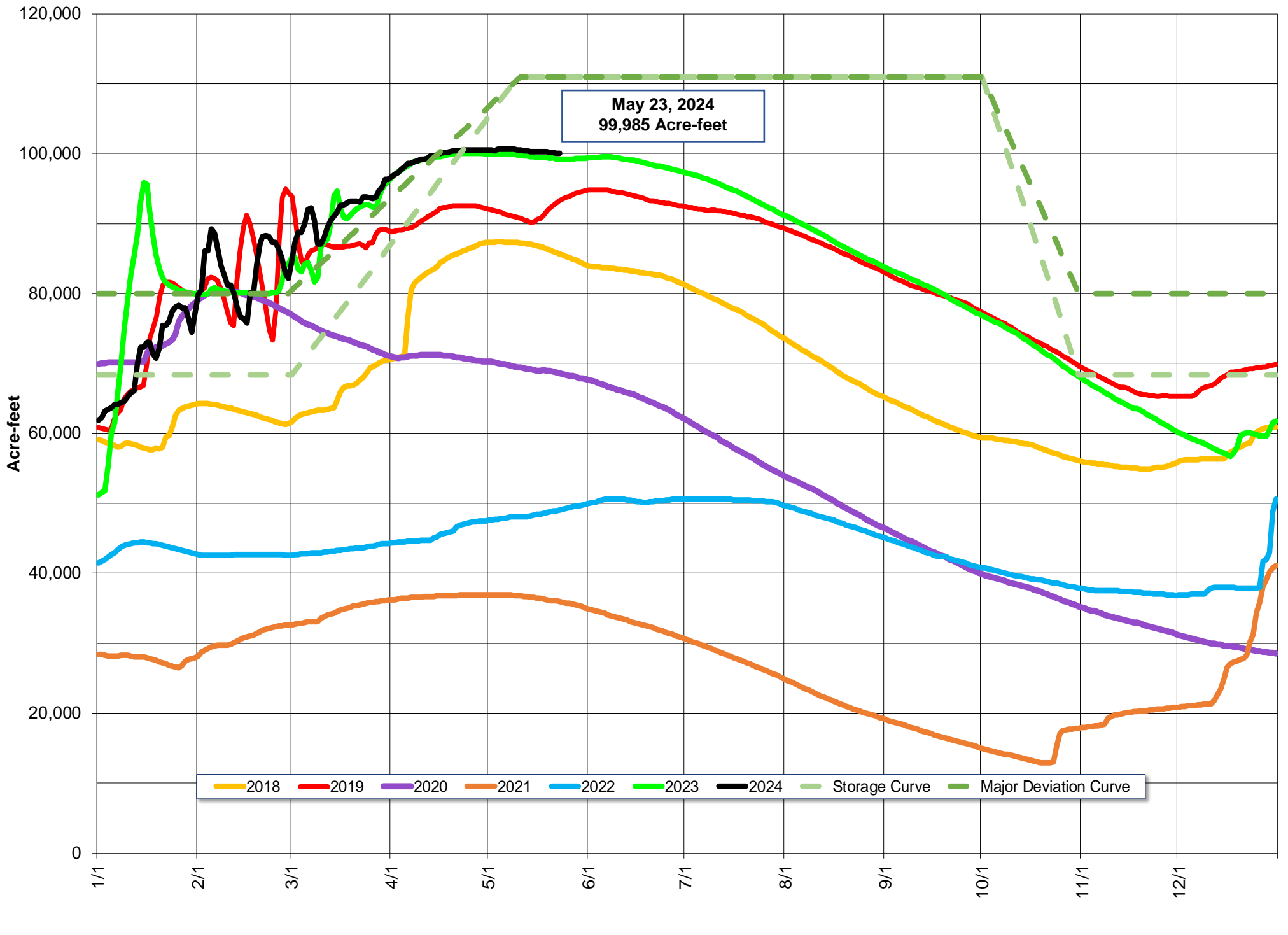
Prepared as a requirement of the Order approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A, 12949, 12950, and 16596 (Applications 12919A, 15736, 15737, and 19351).

**Instream Flow Requirements as of May 23, 2024**

Basis	Reach	Instantaneous (cfs)	5-day Average (cfs)
Modified Per Order: Normal Condition	Upper Russian River	185	-
Modified Per Order: Normal Condition	Dry Creek	80	-
Modified Per Order: Normal Condition	Lower Russian River	125	-

**Lake Mendocino**

**Lake Mendocino Storage 2018 - 2024 and Storage Curve**



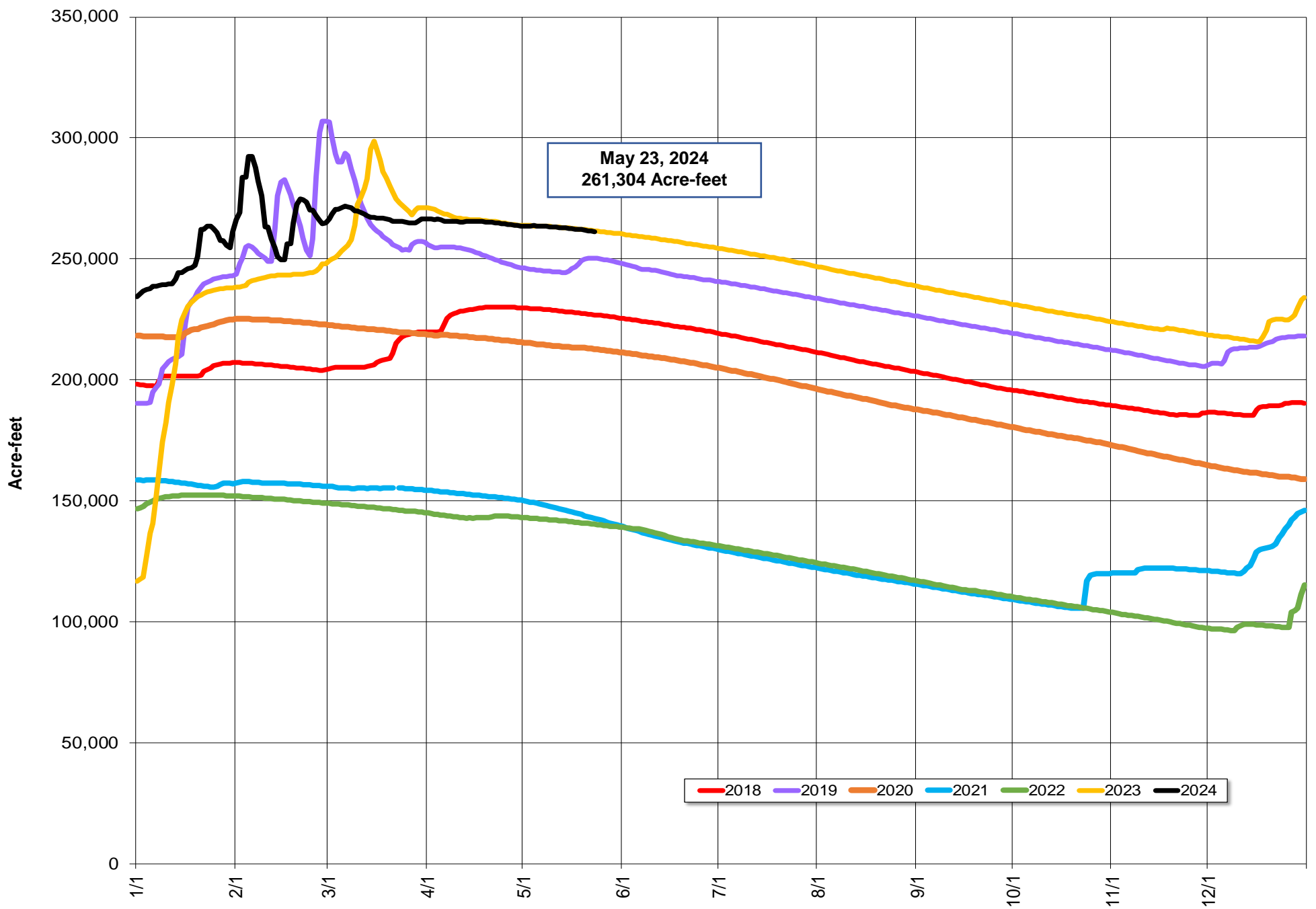
Storage (acre-feet)	May 23, 2024	<b>99,985</b>	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
	Last 7 days	<b>-482</b>	<b>-16</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>82</b>
		Max	<b>170</b>
		Mean	<b>134</b>
Release (cfs)	Last 7 days	Min	<b>157</b>
		Max	<b>177</b>
		Mean	<b>168</b>

# Lake Sonoma



Todd Schram, February 10, 2024

## Lake Sonoma Storage 2018-2024



Storage (acre-feet)	May 23, 2024	<b>261,304</b>	
Change in Storage (acre-feet)	Last 30 days	<b>-3,515</b>	<b>-117</b>
	Last 7 days	<b>-1,186</b>	<b>-169</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>0</b>
		Max	<b>49</b>
		Mean	<b>50</b>
Release (cfs)	Last 7 days	Min	<b>96</b>
		Max	<b>99</b>
		Mean	<b>97</b>

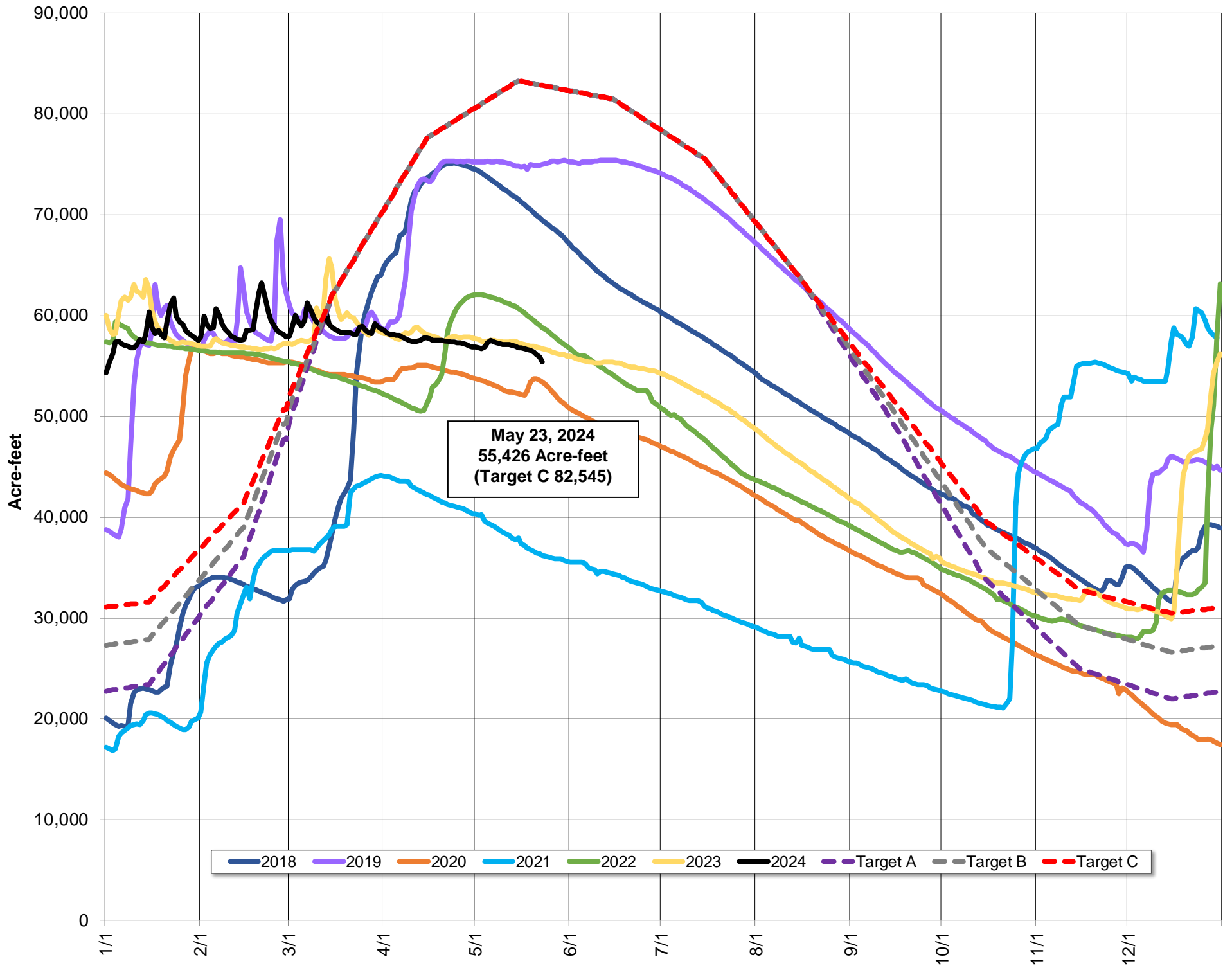
# Potter Valley Project

PVP Diversion (cfs)	May 23, 2024	114
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2023 - May 23, 2024	476,783	2,020
	Last 7 days	3,969	567

\*Inflow calculation based on criteria established in D1610

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

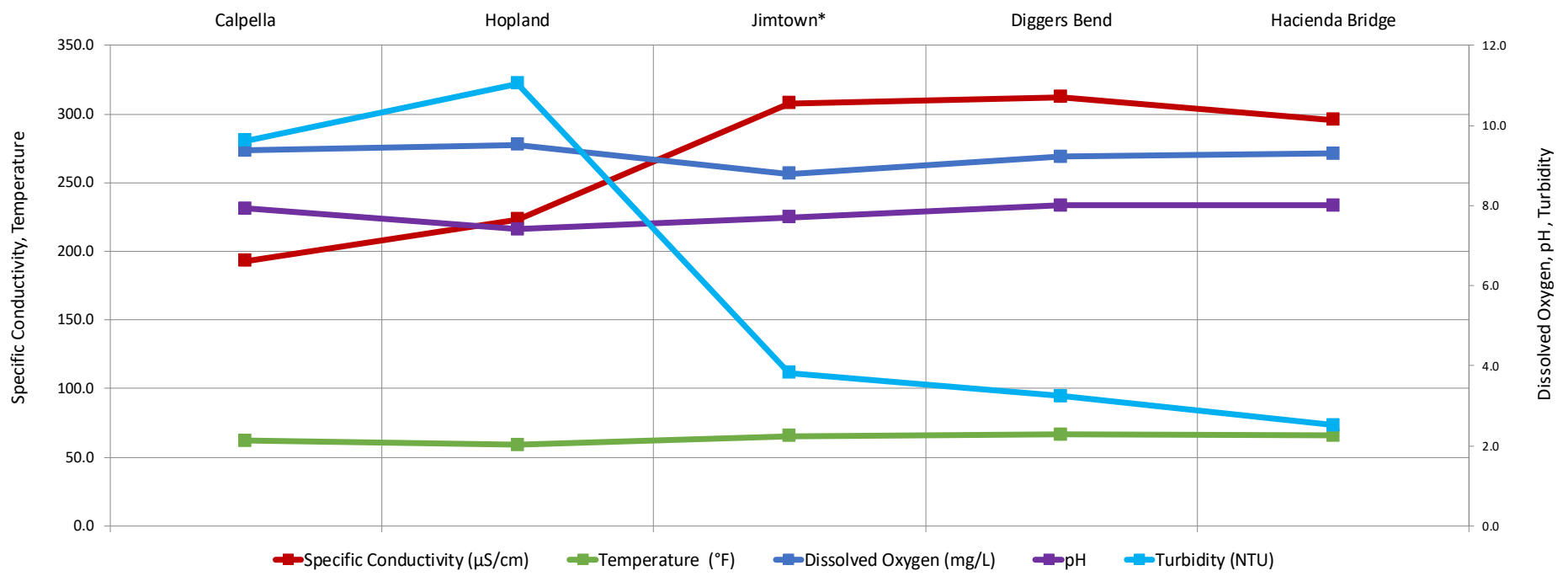


## Russian River Flows (May 17, 2024 - May 23, 2024)

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	57.0	55.2		61.9	63.9		63.0	
	Max	67.1	61.7		68.9	70.0		69.1	
	Mean	61.8	58.8		65.5	66.6		65.8	
Specific Conductivity (µS/cm)	Min	190.0	214.0		305.0	308.0		293.0	
	Max	201.0	230.0		310.0	315.0		298.0	
	Mean	193.2	223.2		307.7	312.6		295.8	
Dissolved Oxygen (mg/L)	Min	8.7	8.9		7.6	7.3		7.8	
	Max	10.3	10.4		10.4	11.6		10.6	
	Mean	9.4	9.5		8.8	9.2		9.3	
Dissolved Oxygen (% Saturation)	Min	92.6	88.3		79.5	76.8		82.0	
	Max	105.1	104.3		114.2	128.8		116.1	
	Mean	96.1	94.2		94.2	100.1		99.8	
pH	Min	7.8	7.3		7.5	7.7		7.9	
	Max	8.1	7.5		7.9	8.4		8.2	
	Mean	7.9	7.4		7.7	8.0		8.0	
Turbidity (NTU)	Min	3.2	9.4		2.7	2.1		1.7	
	Max	18.1	14.2		5.6	5.1		4.2	
	Mean	9.6	11.0		3.8	3.2		2.5	

\*Station operated seasonally

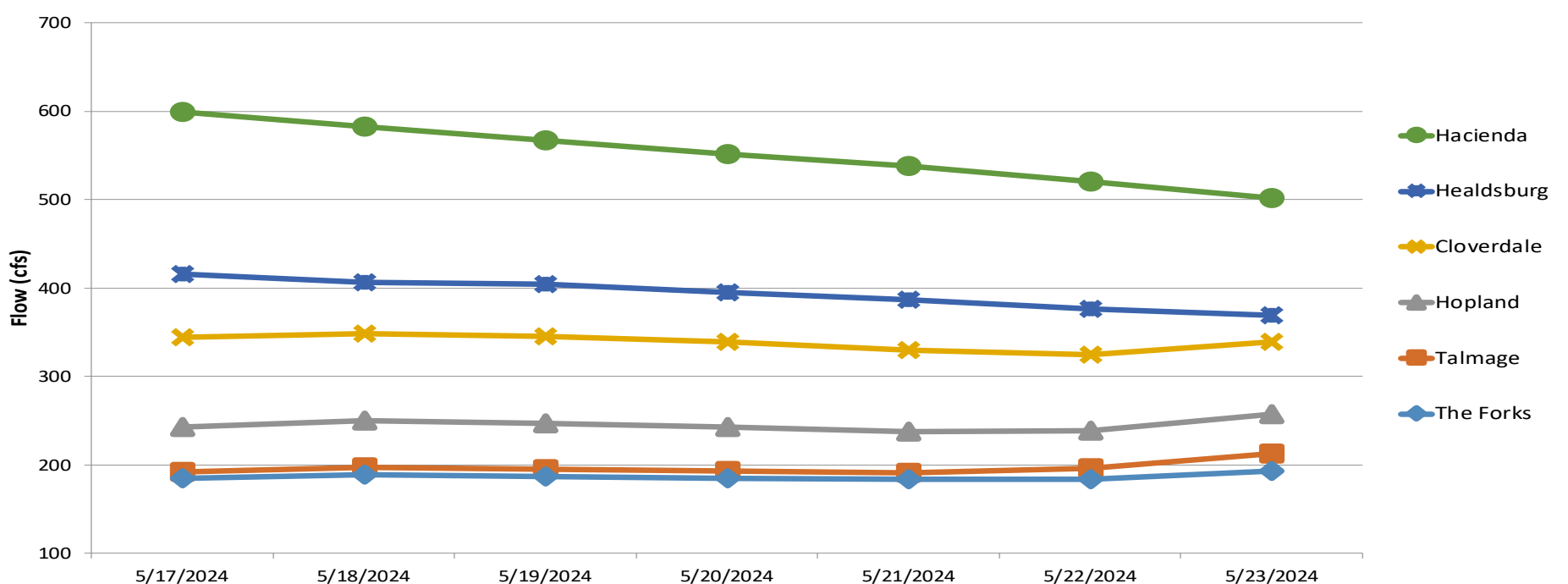
### Water Quality Mean Values



Gage	24-hr Average Flow (cfs)						
	May 17, 2024	May 18, 2024	May 19, 2024	May 20, 2024	May 21, 2024	May 22, 2024	May 23, 2024
The Forks*	185	189	187	185	184	184	193
Talmage USGS 11462080	192	197	195	193	191	196	213
Hopland USGS 11462500	243	250	247	243	237	238	257
Cloverdale USGS 11463000	345	349	345	339	330	324	339
Healdsburg USGS 11464000	416	407	404	395	387	377	369
Hacienda USGS 11467000	599	582	567	552	538	521	502

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

### Russian River Flows

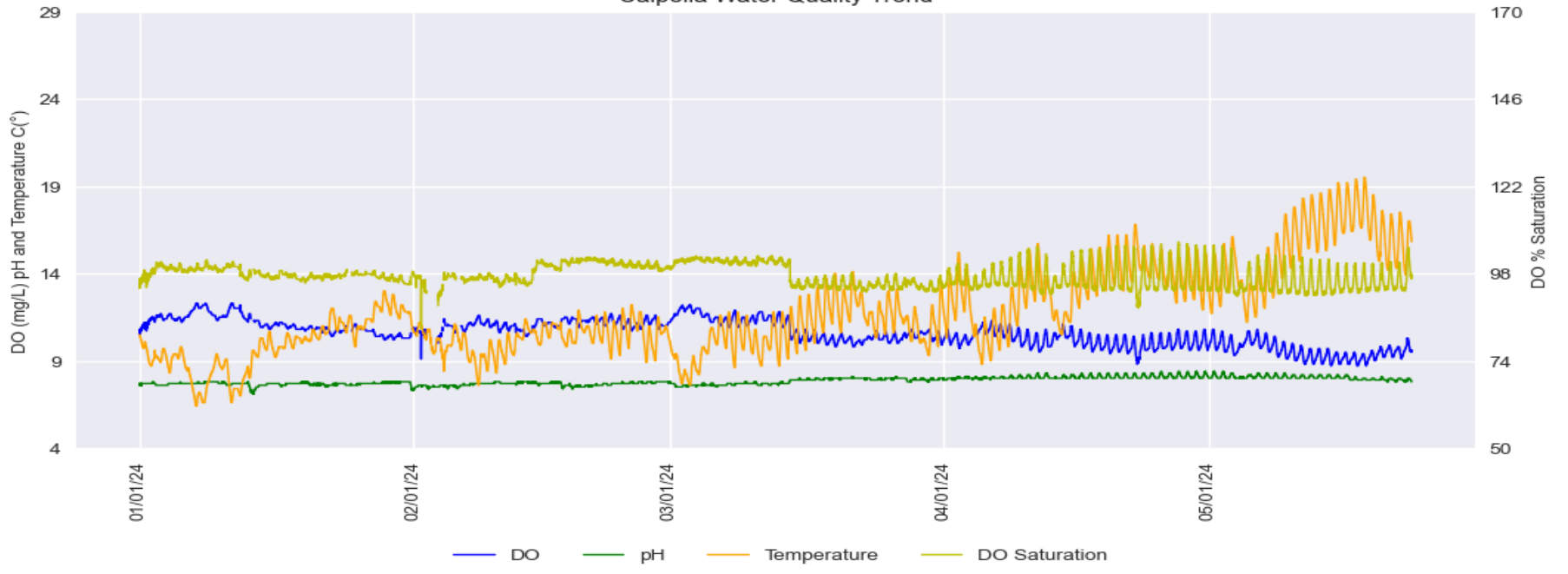


Russian River Water Quality January 1, 2024 – May 23, 2024

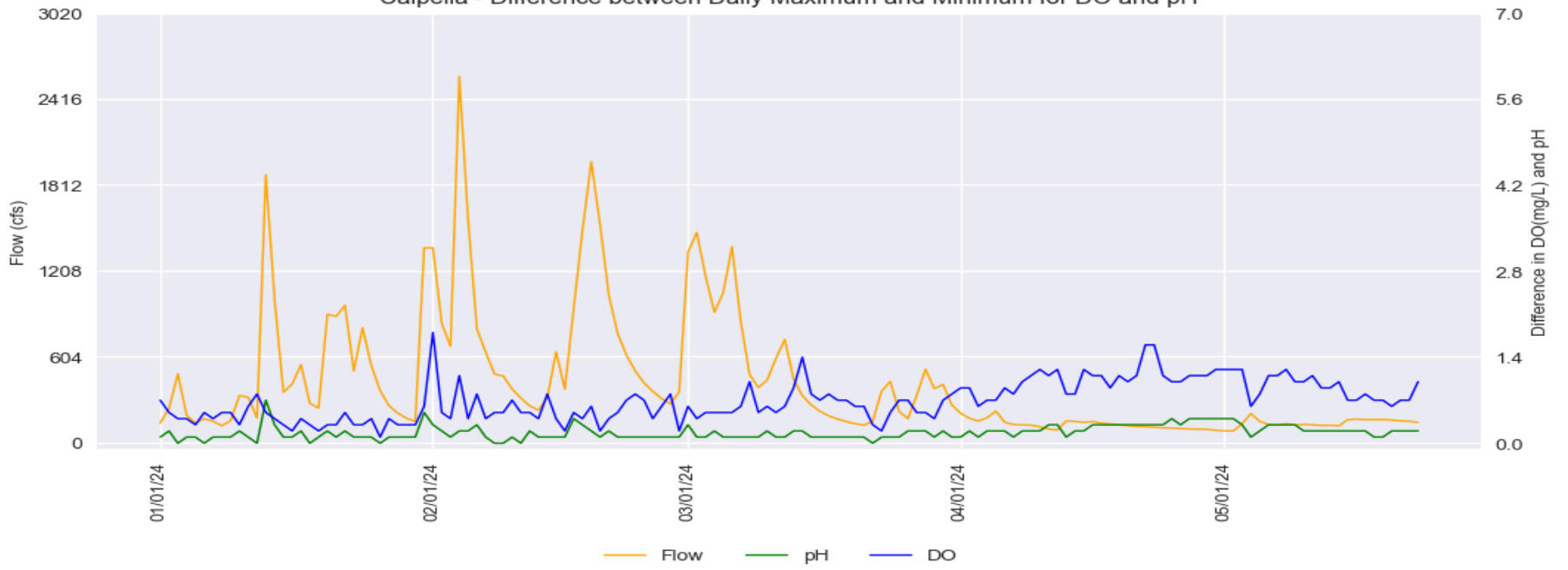
Provisional Data Subject to Revision

**Calpella**

Calpella Water Quality Trend

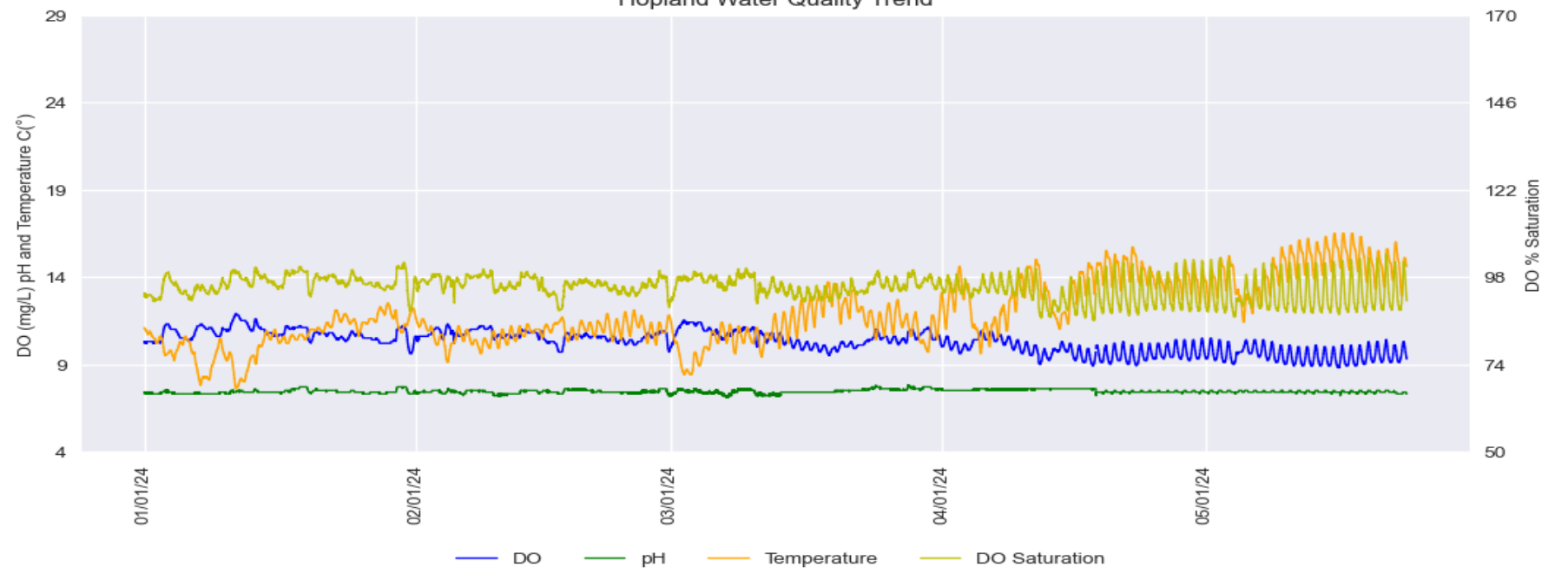


Calpella - Difference between Daily Maximum and Minimum for DO and pH

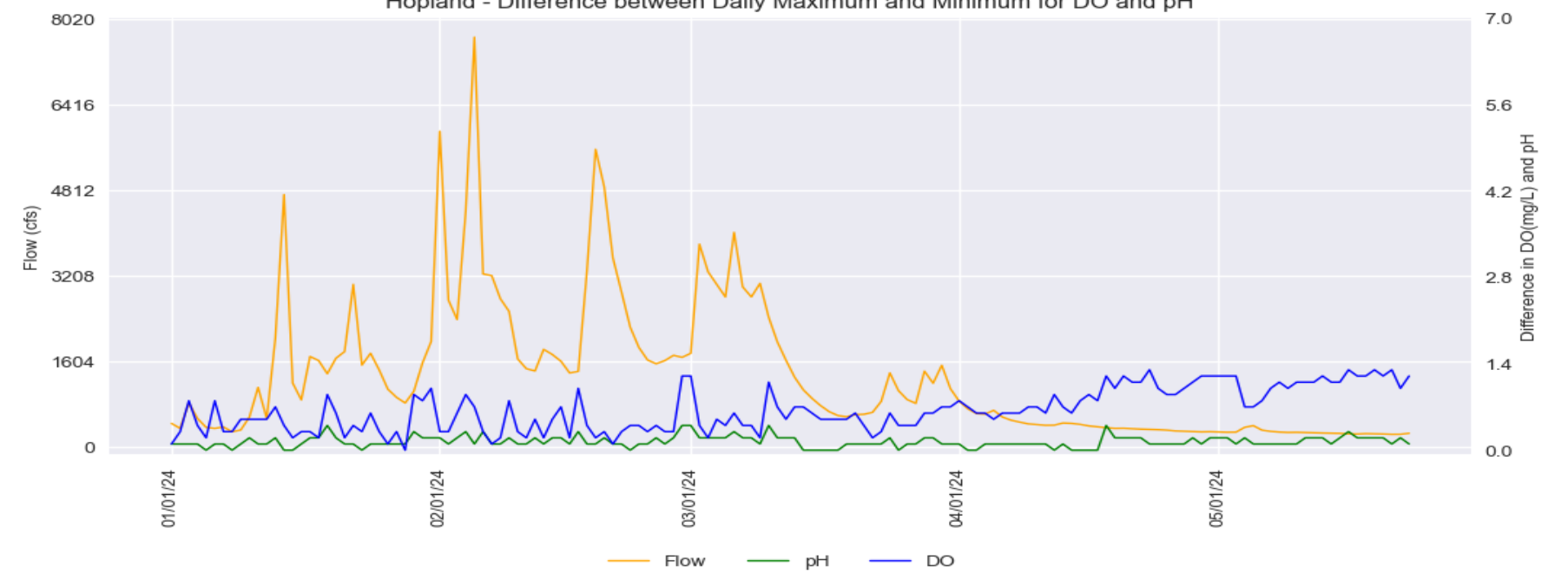


**Hopland**

Hopland Water Quality Trend



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

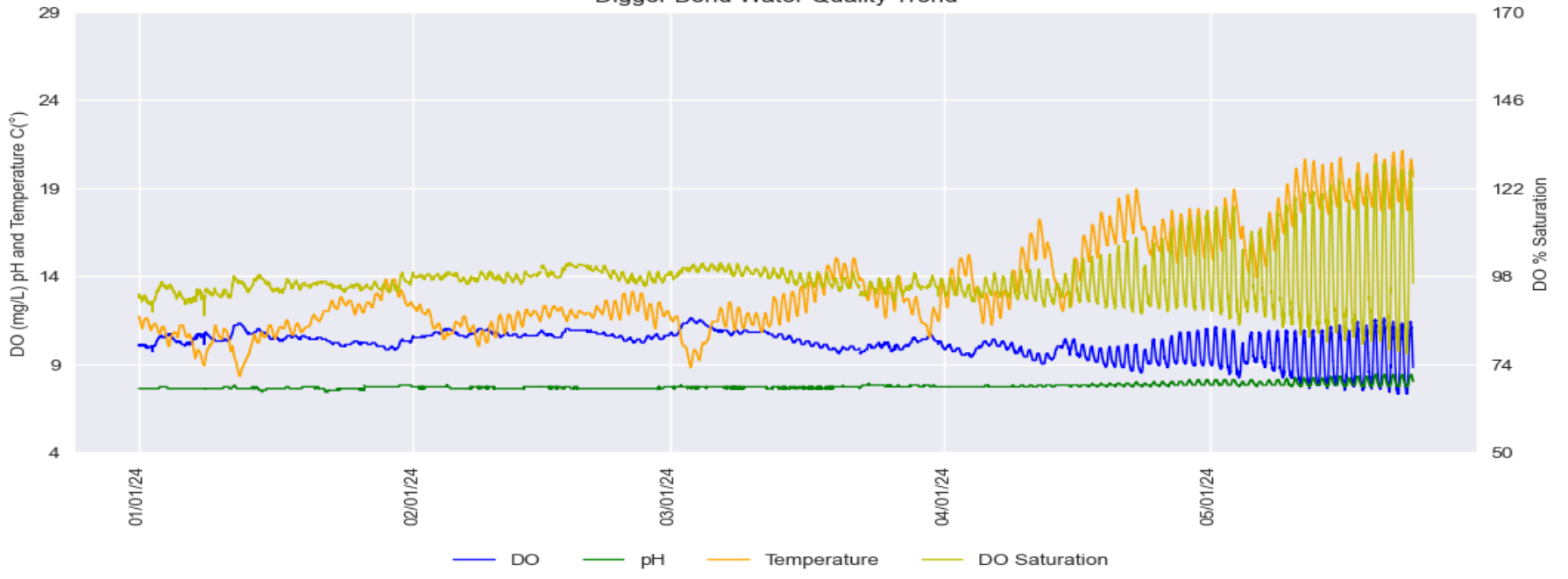


# Russian River Water Quality January 1, 2024 – May 23, 2024

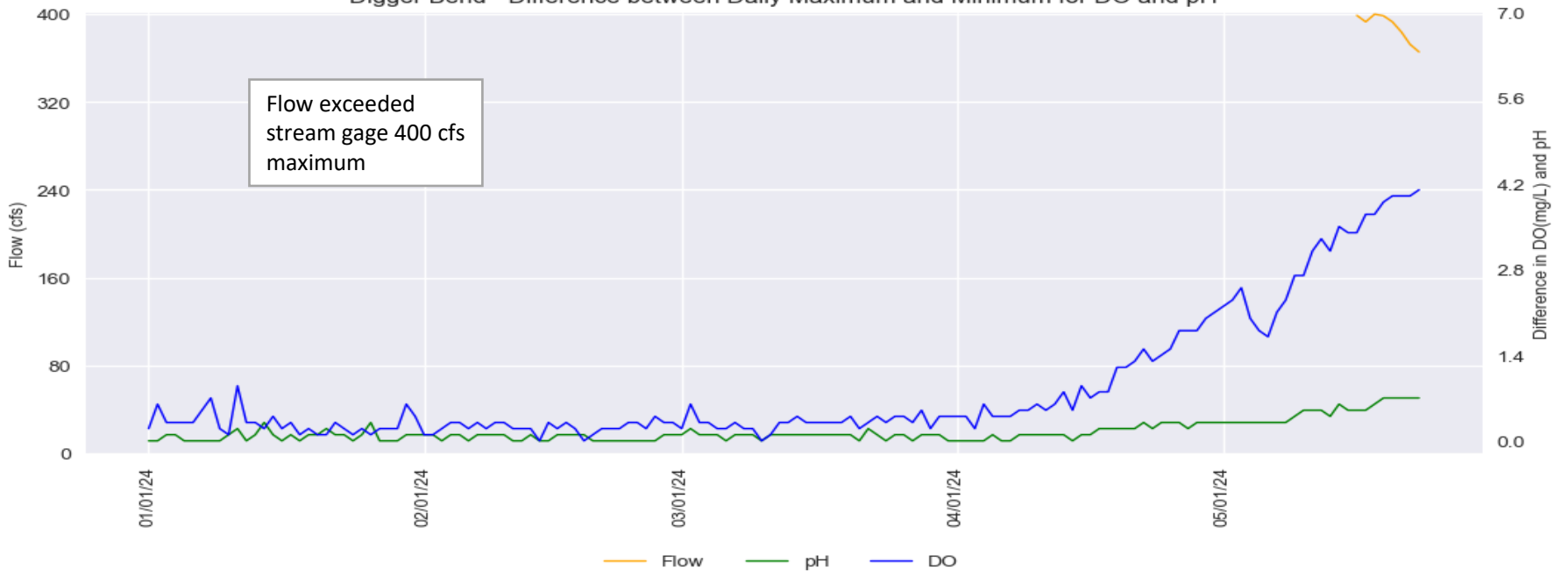
Provisional Data Subject to Revision

## Digger Bend

### Digger Bend Water Quality Trend

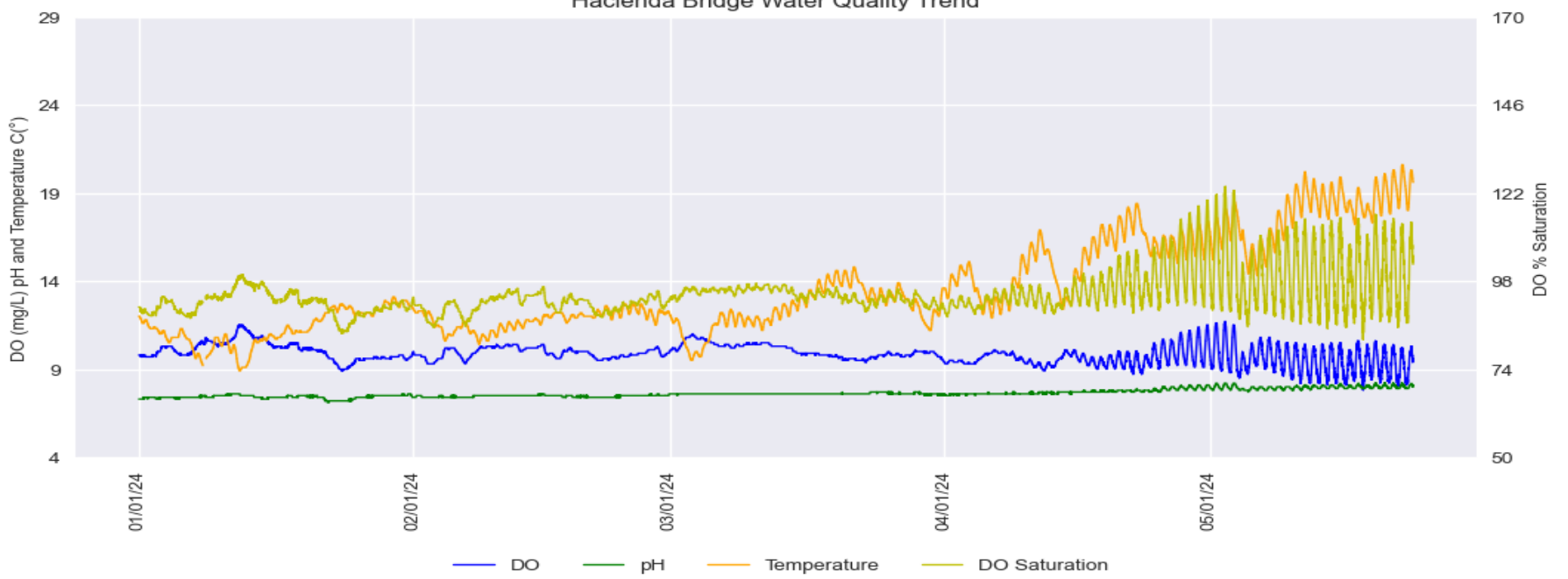


### Digger Bend - Difference between Daily Maximum and Minimum for DO and pH

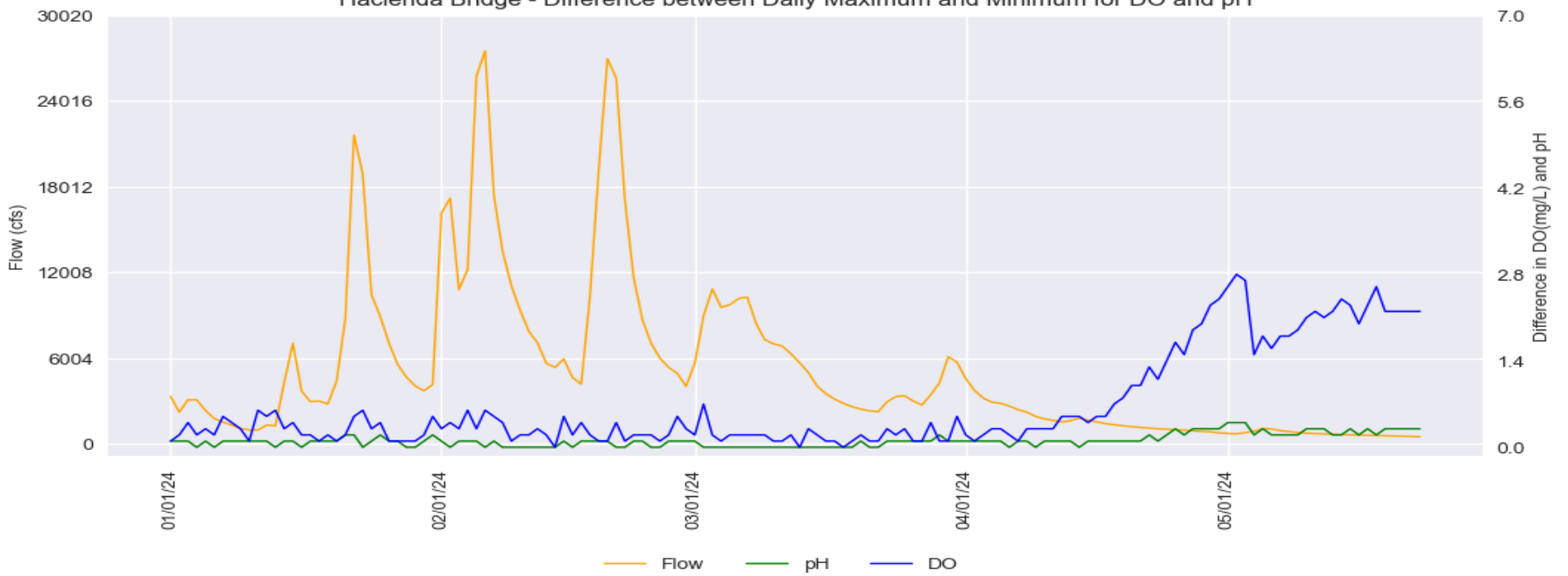


## Hacienda Bridge

### Hacienda Bridge Water Quality Trend



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

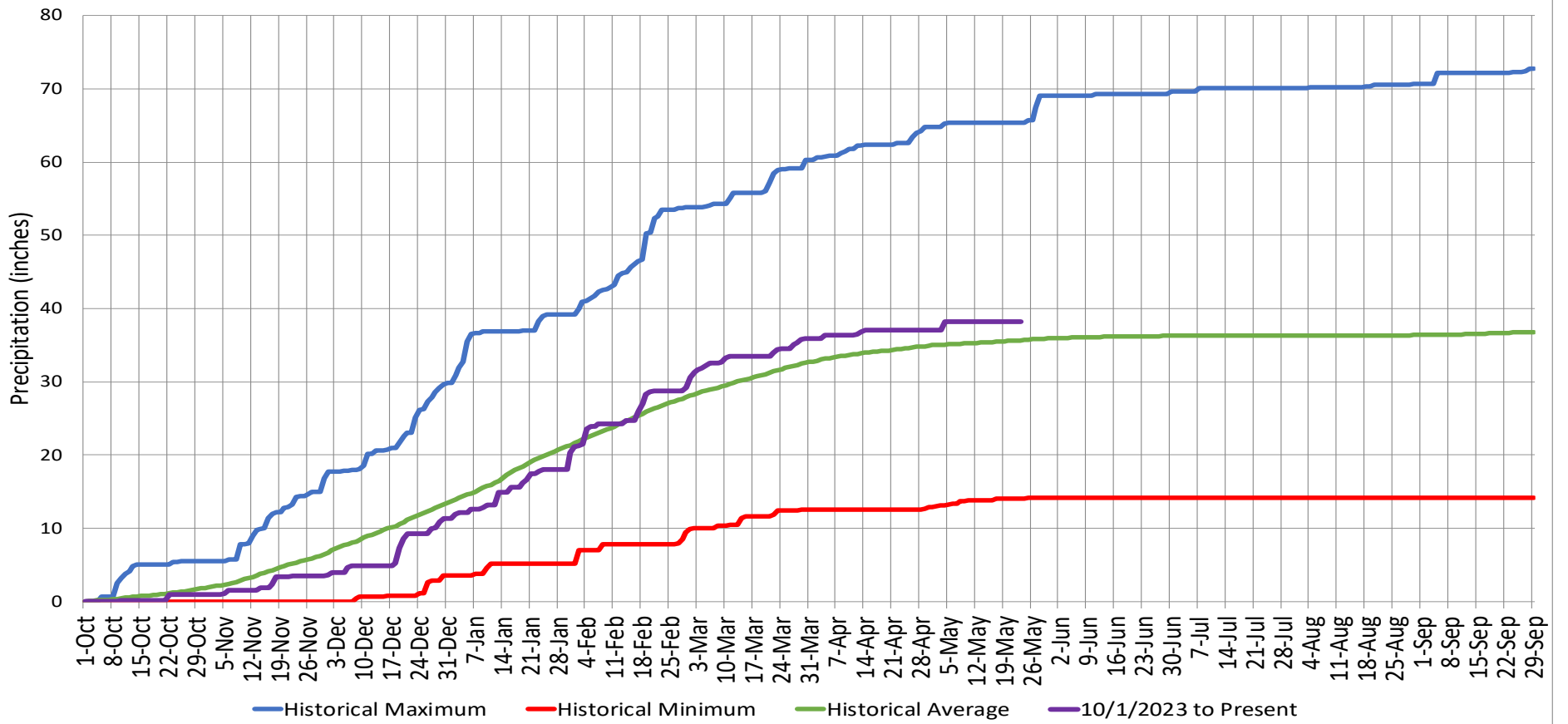


# Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

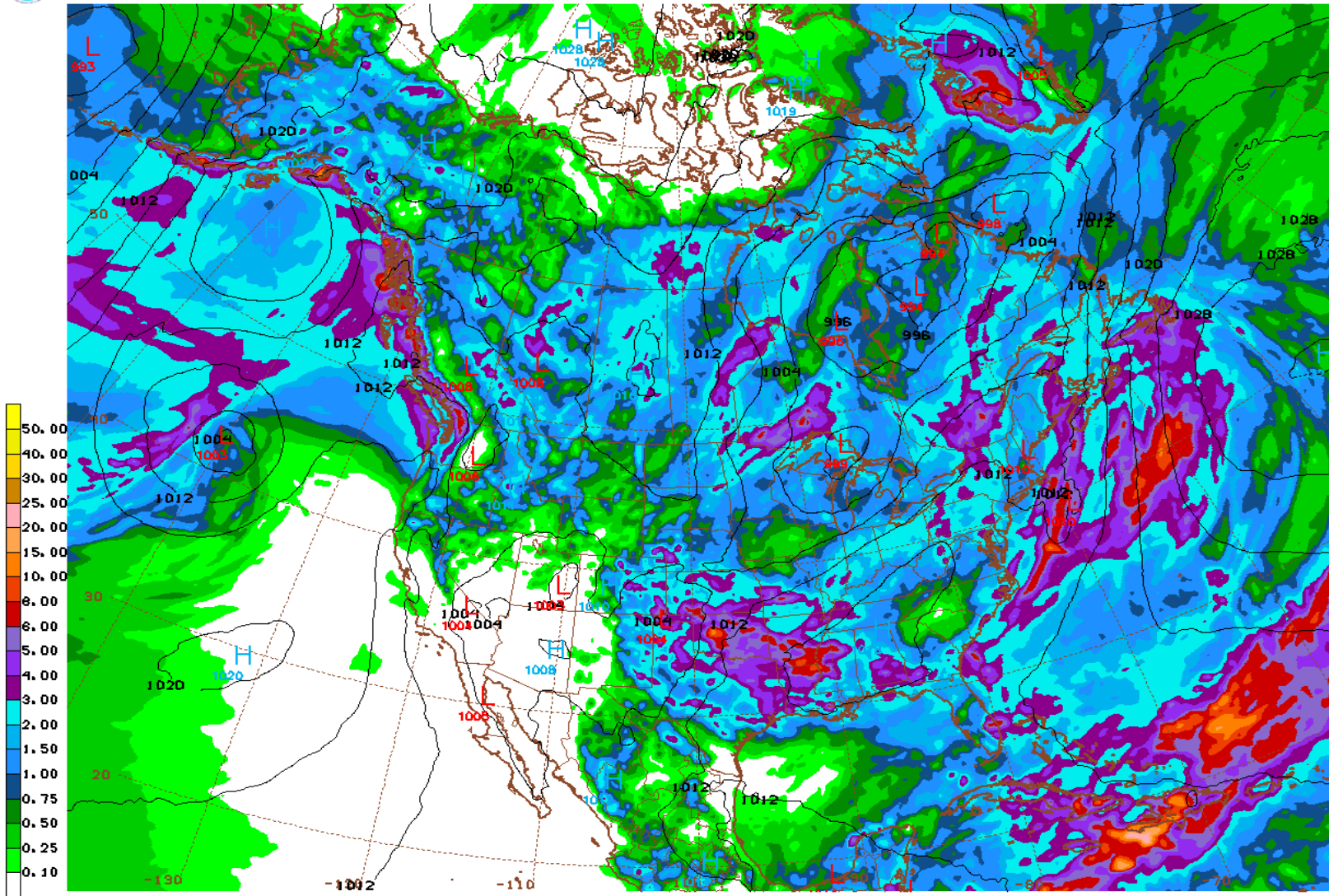
Date Range	Cumulative (inches)
Oct 1, 2023 - May 23, 2024	<b>38.22</b>
Last 7 Days*	<b>0.00</b>

Cumulative Precipitation Comparison of Current Year versus Historic Record



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

6FS 05/28/24 12UTC 384HR FCST VALID THU 06/13/24 12UTC NOAA/NWS/NCEP



6FS THU 240613/1200V384 EMSL (4MB), 384HR ACCUMULATED PRECIP (IN)

Date Range  
May 28 - Jun 13, 2024

Forecasted Cumulative (inches)  
**0.00**