



State Water Resources Control Board  
 Temporary Urgency Change Order (12/27/2023)  
 Russian River Hydrologic & Water Quality Report  
 May 24, 2024 - May 30, 2024

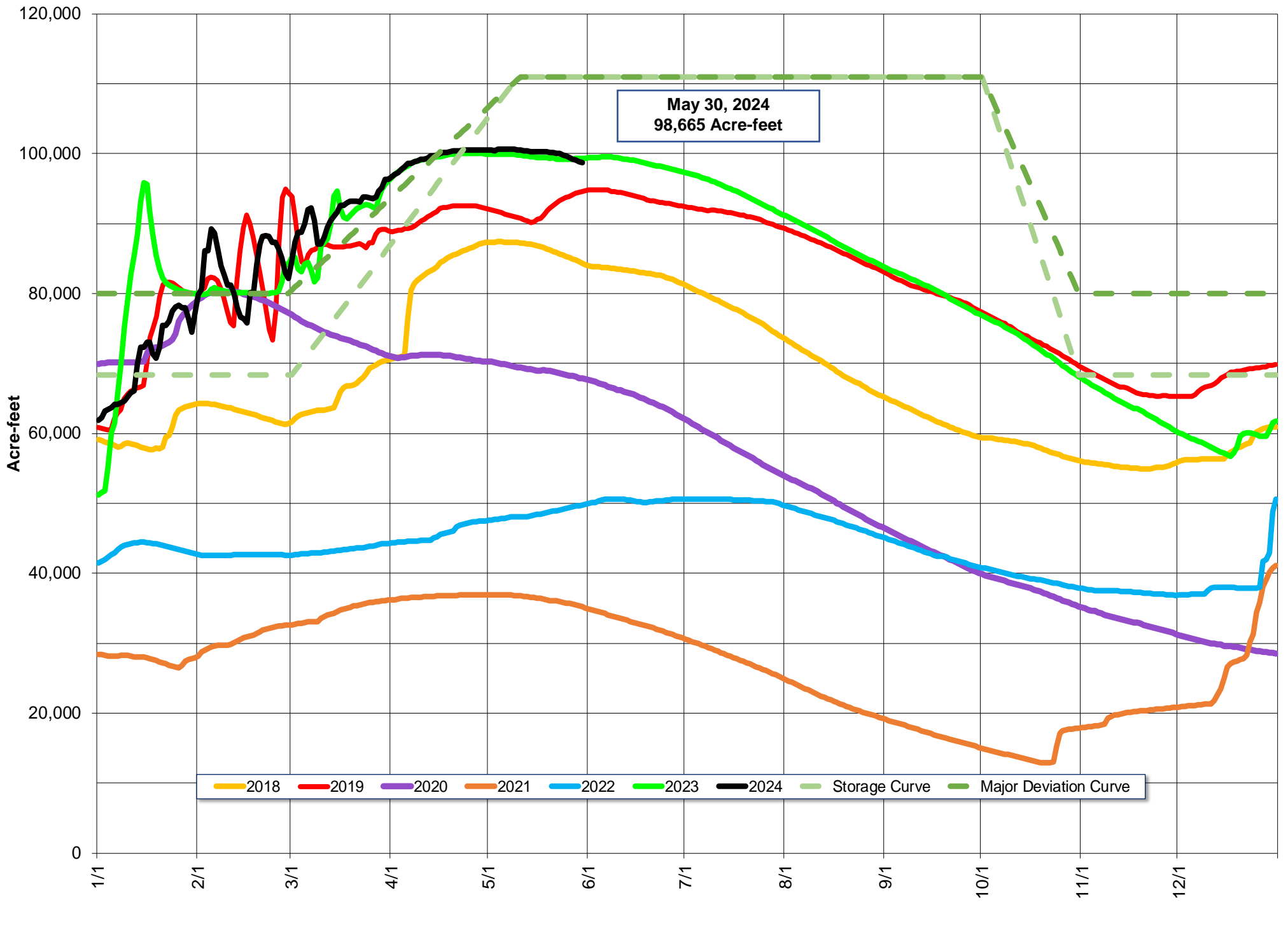
Prepared as a requirement of the Order approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A, 12949, 12950, and 16596 (Applications 12919A, 15736, 15737, and 19351).

**Instream Flow Requirements as of May 30, 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**



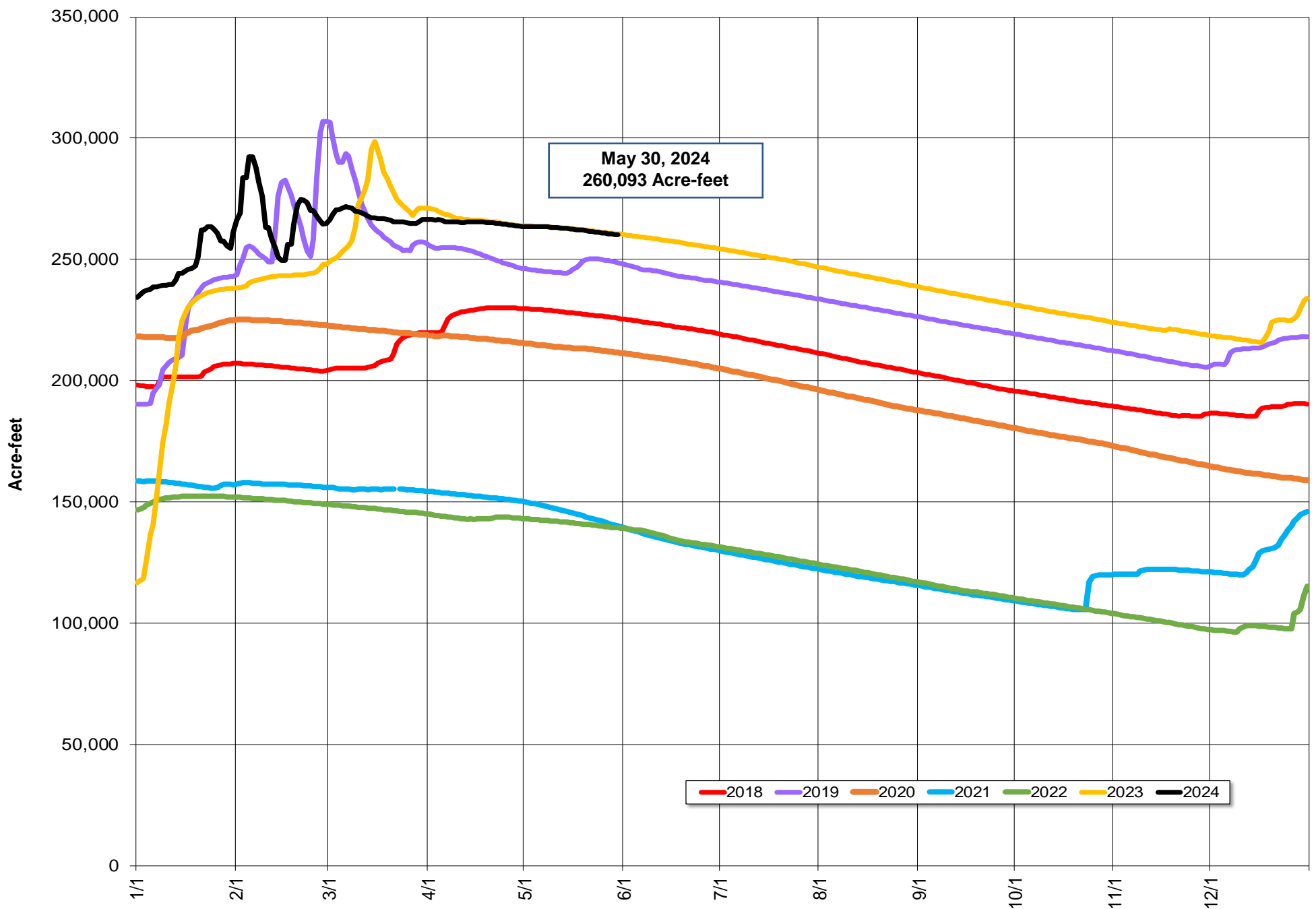
Storage (acre-feet)	May 30, 2024	<b>98,665</b>	
Change in Storage (acre-feet)	Last 30 days	<b>-1,892</b>	<b>Average Daily Rate</b>
	Last 7 days	<b>-1,106</b>	<b>-158</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>64</b>
		Max	<b>118</b>
		Mean	<b>96</b>
Release (cfs)	Last 7 days	Min	<b>175</b>
		Max	<b>184</b>
		Mean	<b>179</b>

# Lake Sonoma



Todd Schram, February 10, 2024

## Lake Sonoma Storage 2018-2024



Storage (acre-feet)	May 30, 2024	<b>260,093</b>	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
		<b>-3,616</b>	<b>-121</b>
	Last 7 days	<b>-1,211</b>	<b>-173</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>0</b>
		Max	<b>49</b>
		Mean	<b>39</b>
Release (cfs)	Last 7 days	Min	<b>96</b>
		Max	<b>98</b>
		Mean	<b>97</b>

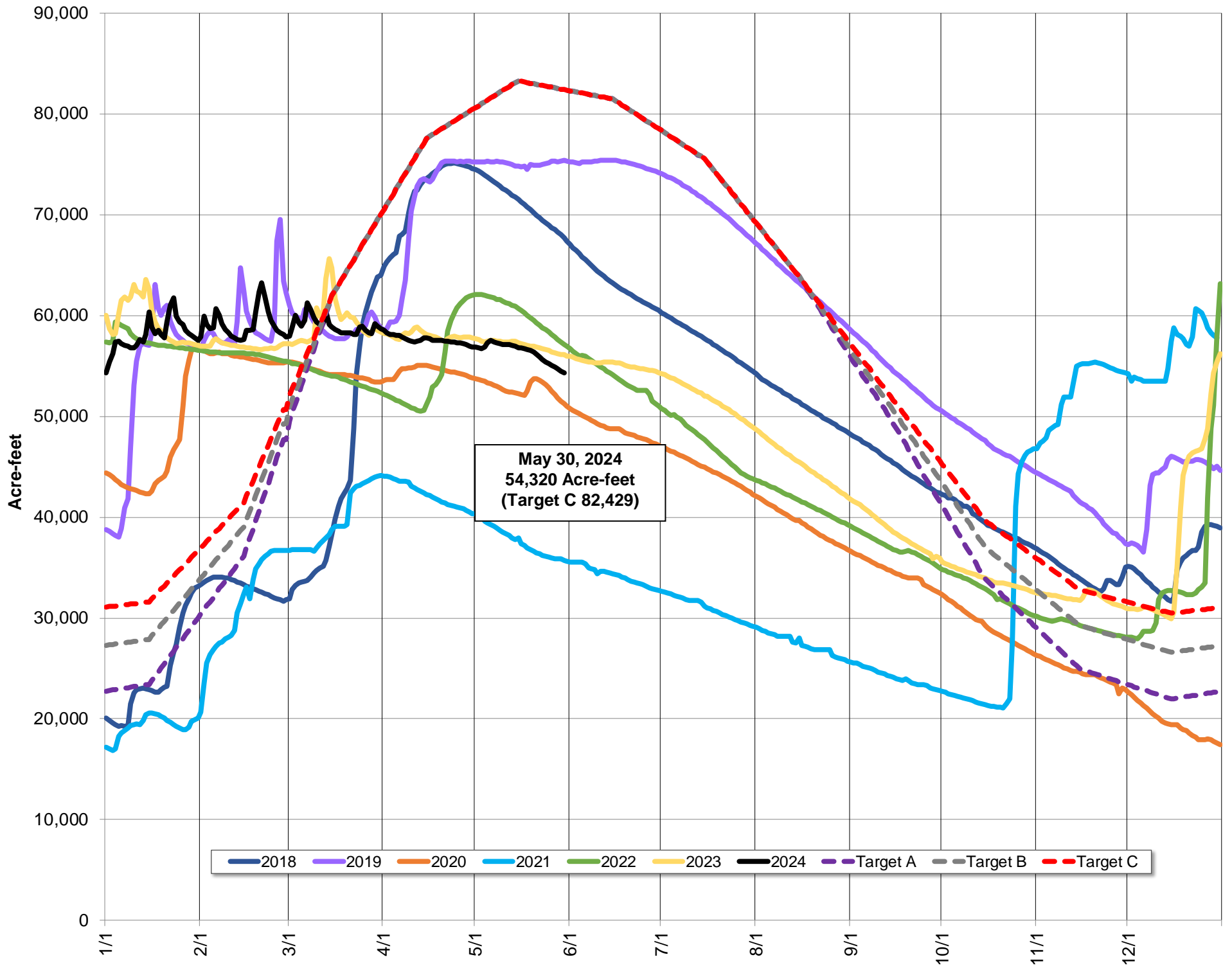
# Potter Valley Project

PVP Diversion (cfs)	May 30, 2024	96
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2023 - May 30, 2024	479,285	1,972
	Last 7 days	2,502	357

\*Inflow calculation based on criteria established in D1610

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

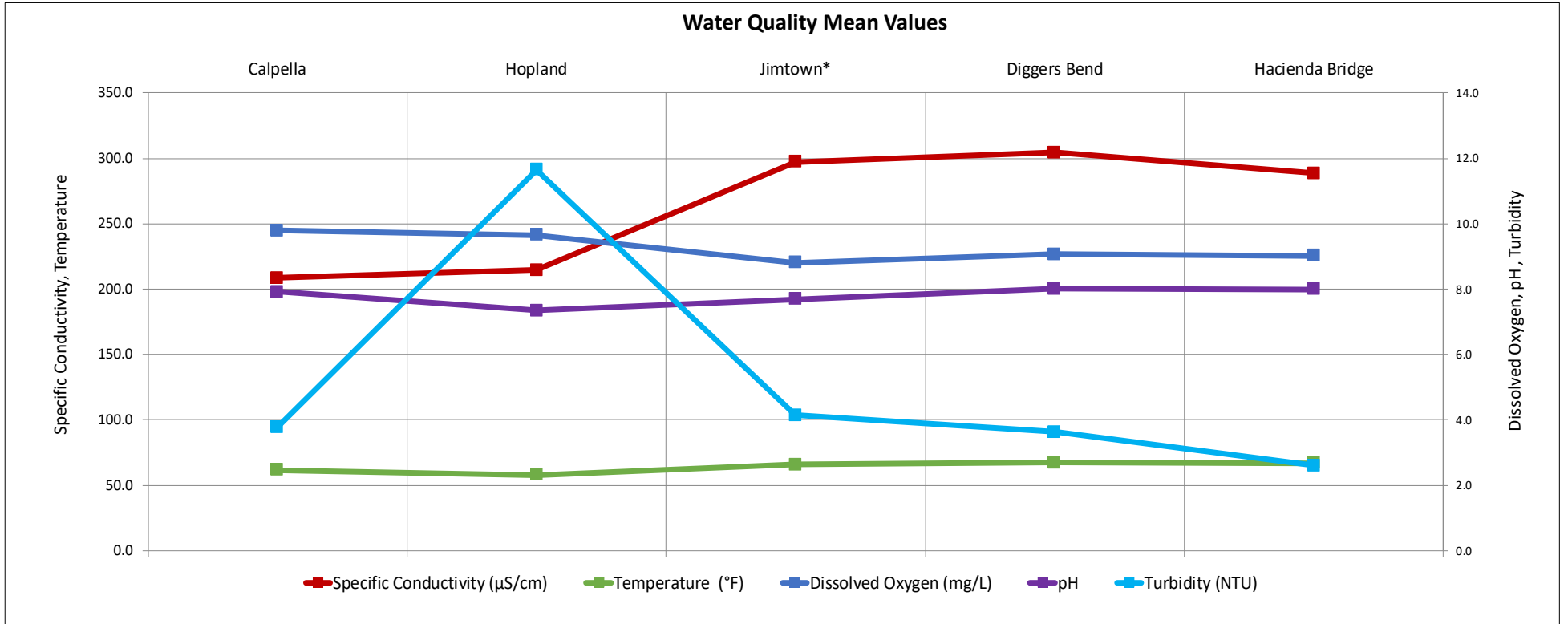


## Russian River Flows (May 24, 2024 - May 30, 2024)

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	57.4	55.0		62.2	63.7		63.7	
	Max	65.1	60.1		69.8	71.2		70.5	
	Mean	61.5	57.9		65.7	67.1		66.8	
Specific Conductivity (µS/cm)	Min	200.0	212.0		296.0	301.0		283.0	
	Max	214.0	216.0		304.0	314.0		295.0	
	Mean	208.5	214.7		297.2	304.4		288.4	
Dissolved Oxygen (mg/L)	Min	9.3	9.1		7.6	7.0		7.9	
	Max	10.4	10.4		10.4	11.3		10.2	
	Mean	9.8	9.7		8.8	9.1		9.0	
Dissolved Oxygen (% Saturation)	Min	96.0	88.8		79.1	74.5		84.6	
	Max	106.9	103.8		115.9	126.7		113.2	
	Mean	100.0	94.5		94.5	99.0		98.0	
pH	Min	7.8	7.3		7.5	7.7		7.8	
	Max	8.1	7.4		7.9	8.4		8.2	
	Mean	7.9	7.3		7.7	8.0		8.0	
Turbidity (NTU)	Min	2.8	10.3		3.0	2.7		1.8	
	Max	5.1	13.1		5.9	4.7		3.9	
	Mean	3.8	11.6		4.1	3.6		2.6	

\*Station operated seasonally

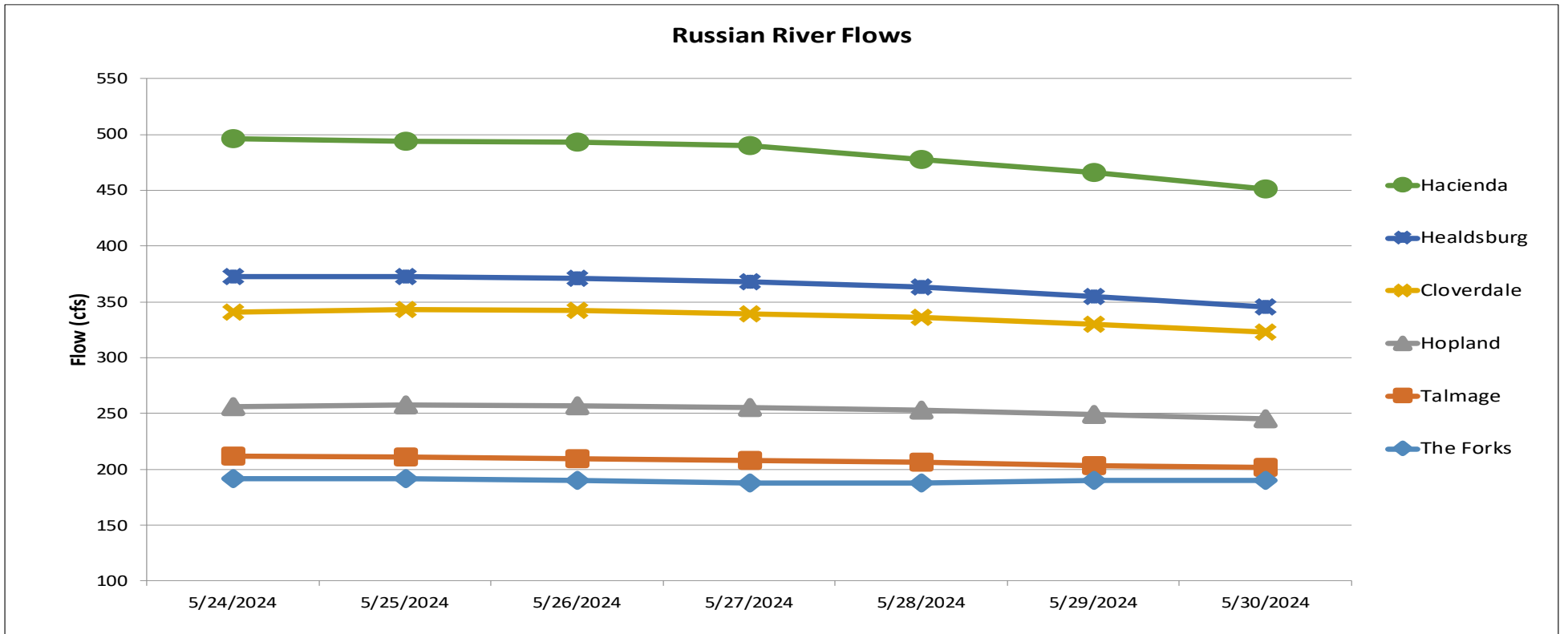
### Water Quality Mean Values



Gage	24-hr Average Flow (cfs)						
	May 24, 2024	May 25, 2024	May 26, 2024	May 27, 2024	May 28, 2024	May 29, 2024	May 30, 2024
The Forks*	192	191	190	187	188	190	190
Talmage USGS 11462080	212	211	210	208	206	203	202
Hopland USGS 11462500	256	258	257	256	253	249	246
Cloverdale USGS 11463000	341	343	342	339	336	330	323
Healdsburg USGS 11464000	373	372	371	368	363	354	346
Hacienda USGS 11467000	496	494	493	490	478	466	451

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

### Russian River Flows



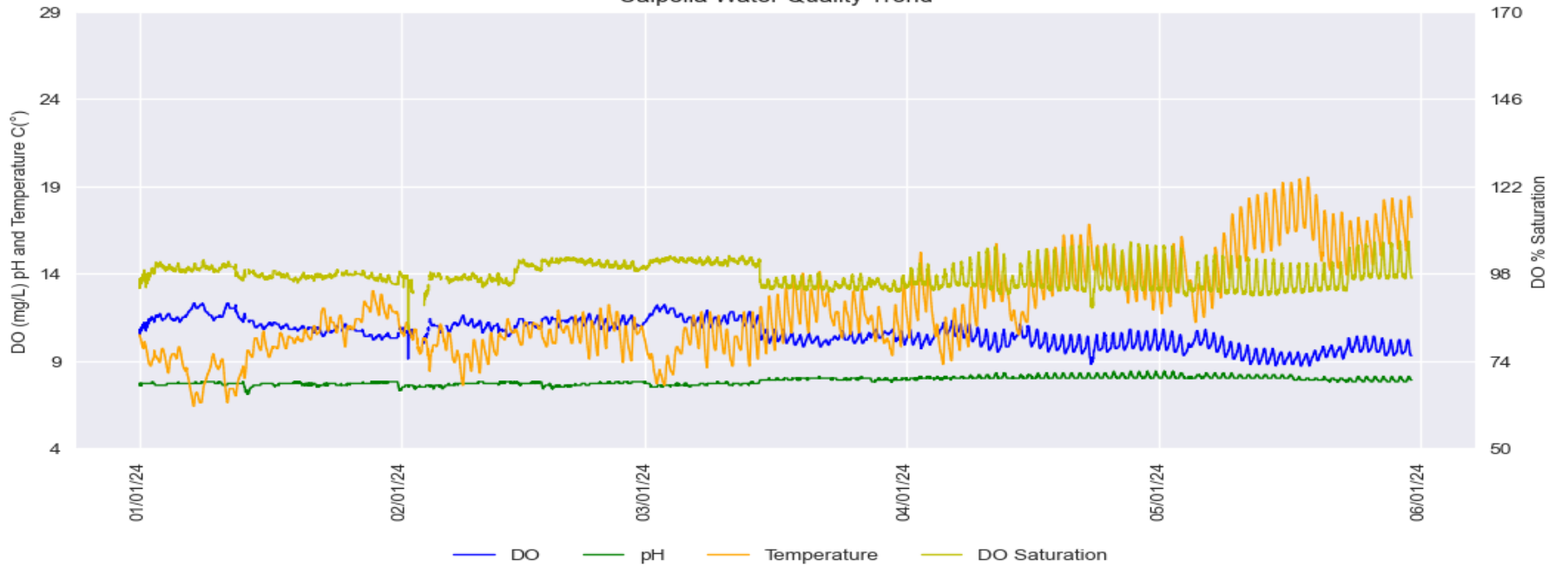


Russian River Water Quality January 1, 2024 – May 30, 2024

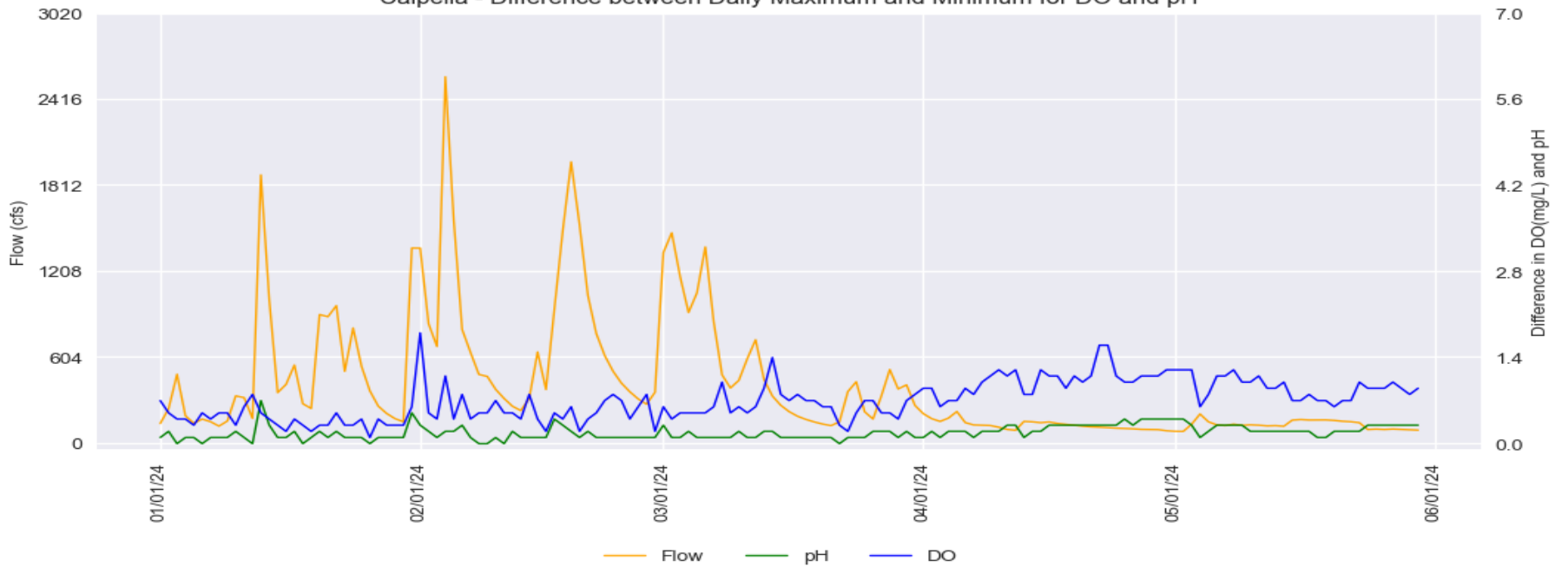
Provisional Data Subject to Revision

**Calpella**

Calpella Water Quality Trend

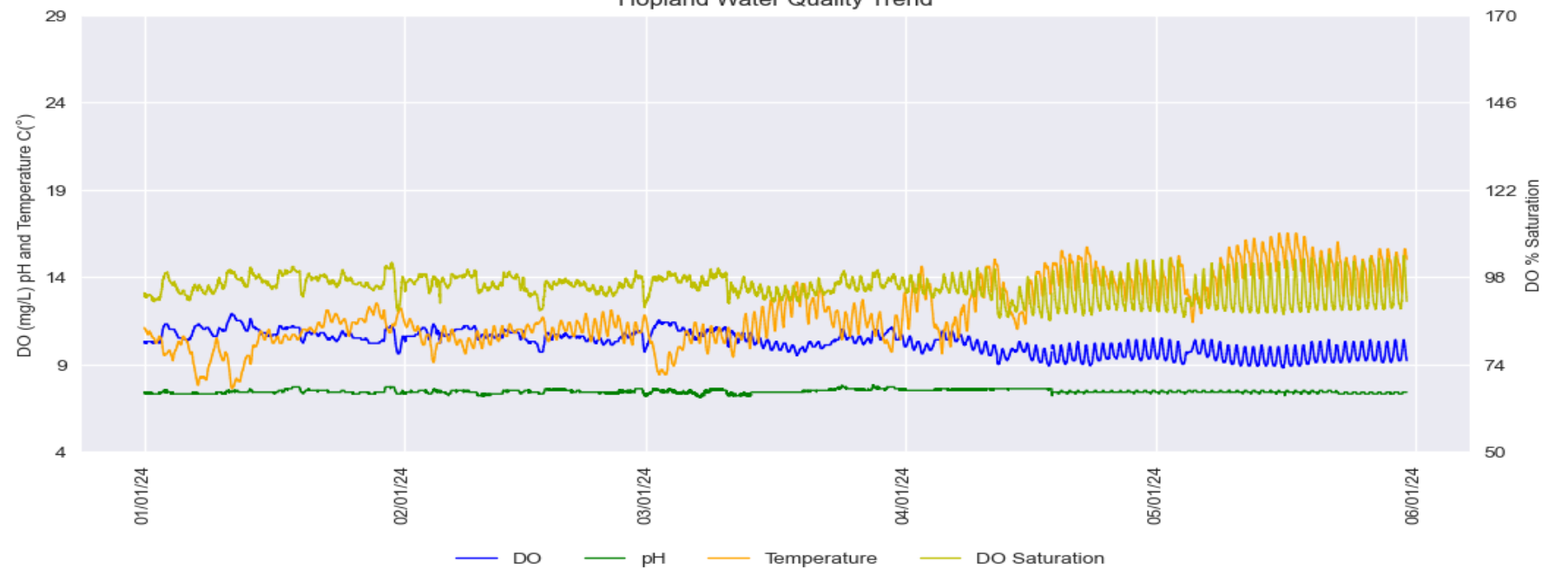


Calpella - Difference between Daily Maximum and Minimum for DO and pH

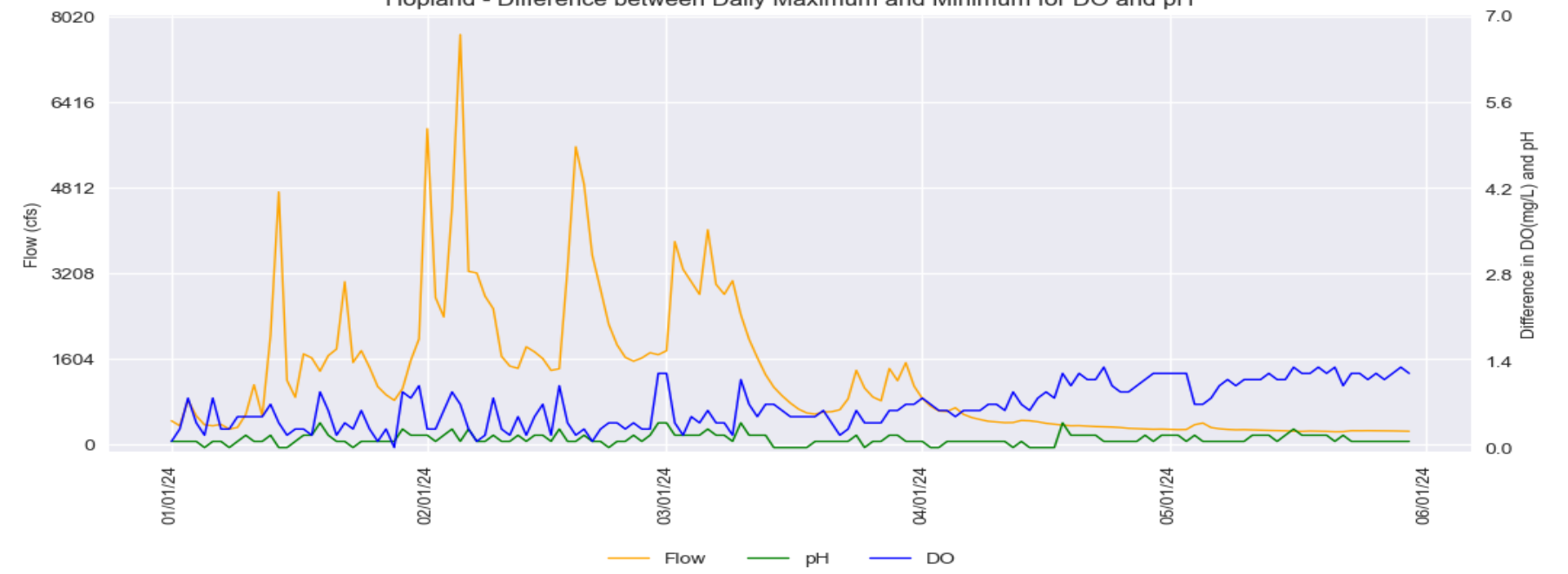


**Hopland**

Hopland Water Quality Trend



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

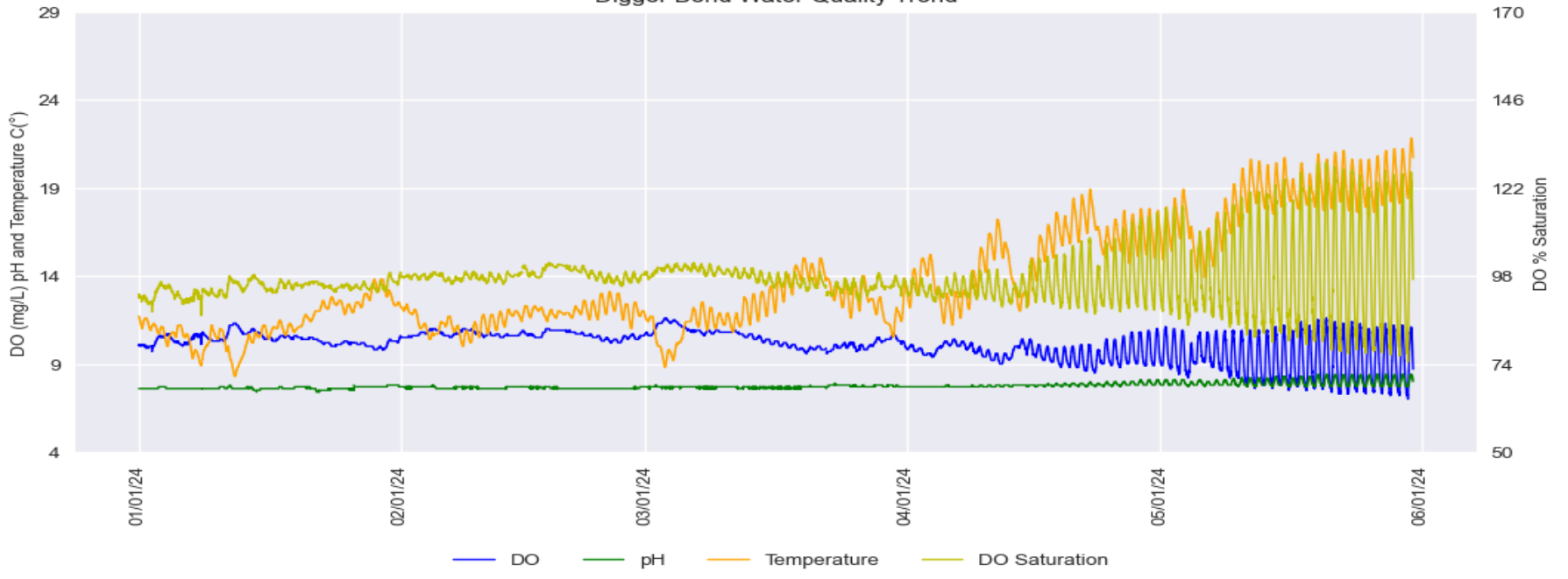


# Russian River Water Quality January 1, 2024 – May 30, 2024

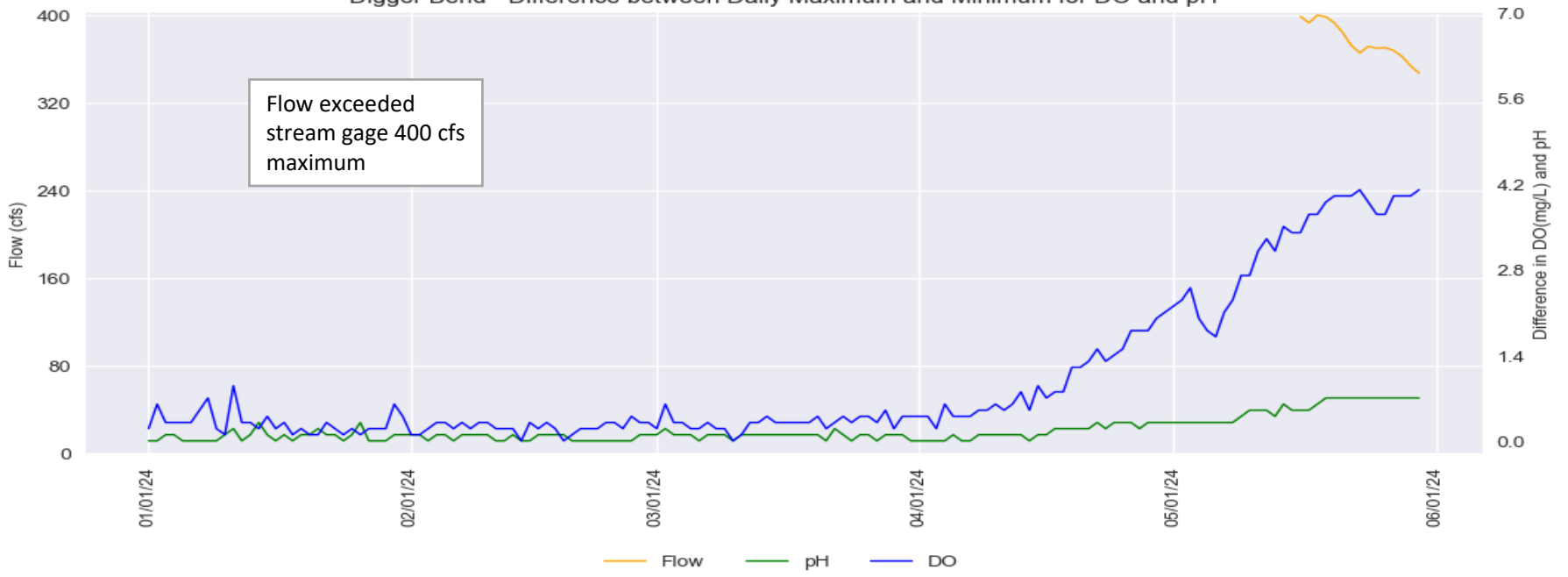
Provisional Data Subject to Revision

## Digger Bend

### Digger Bend Water Quality Trend

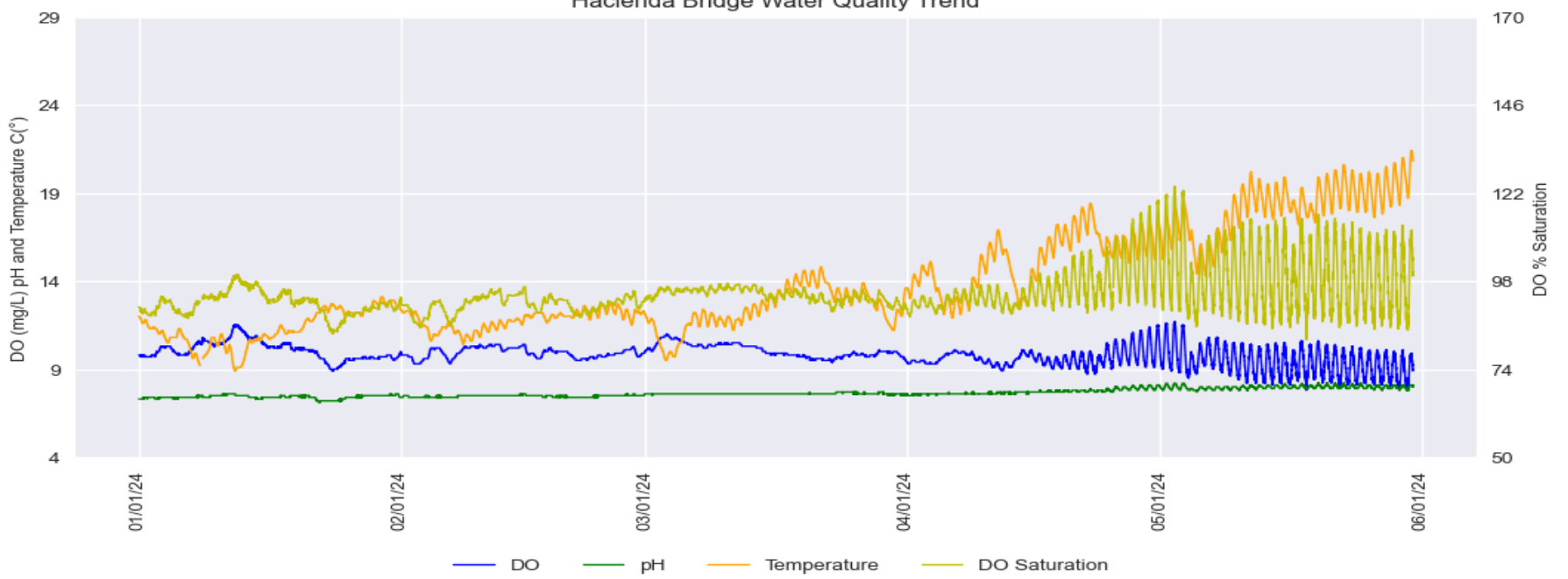


### Digger Bend - Difference between Daily Maximum and Minimum for DO and pH

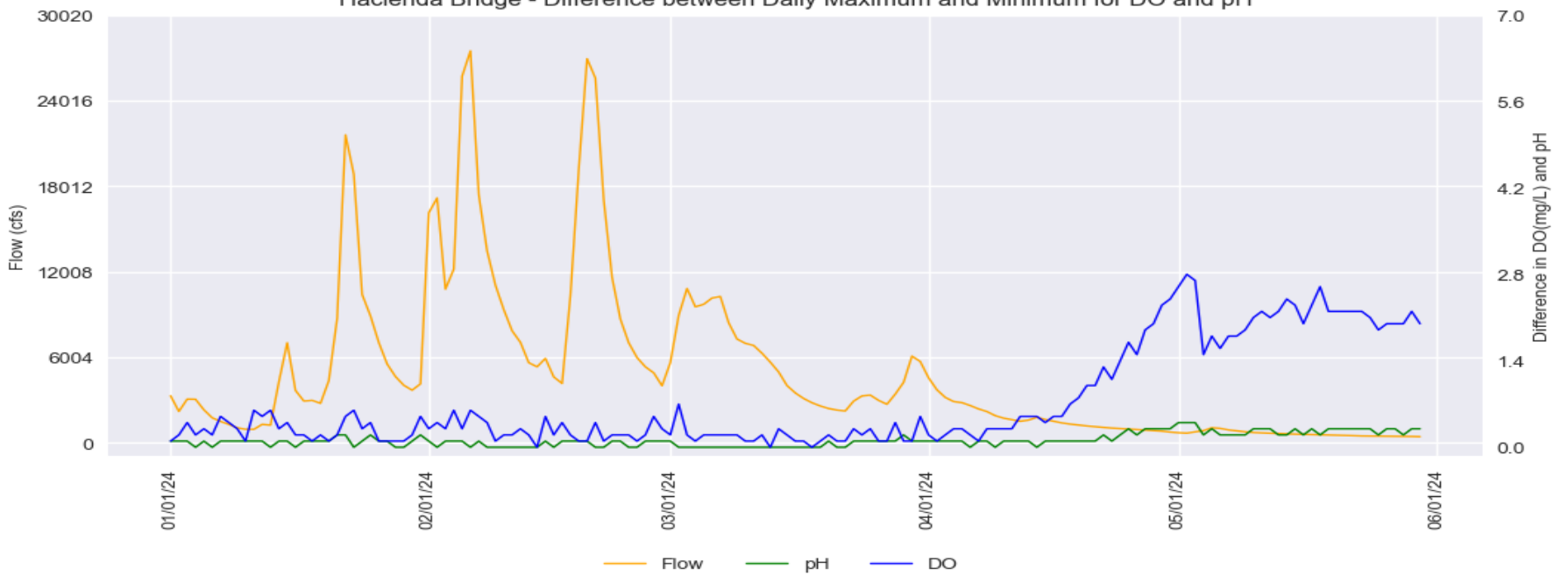


## Hacienda Bridge

### Hacienda Bridge Water Quality Trend



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

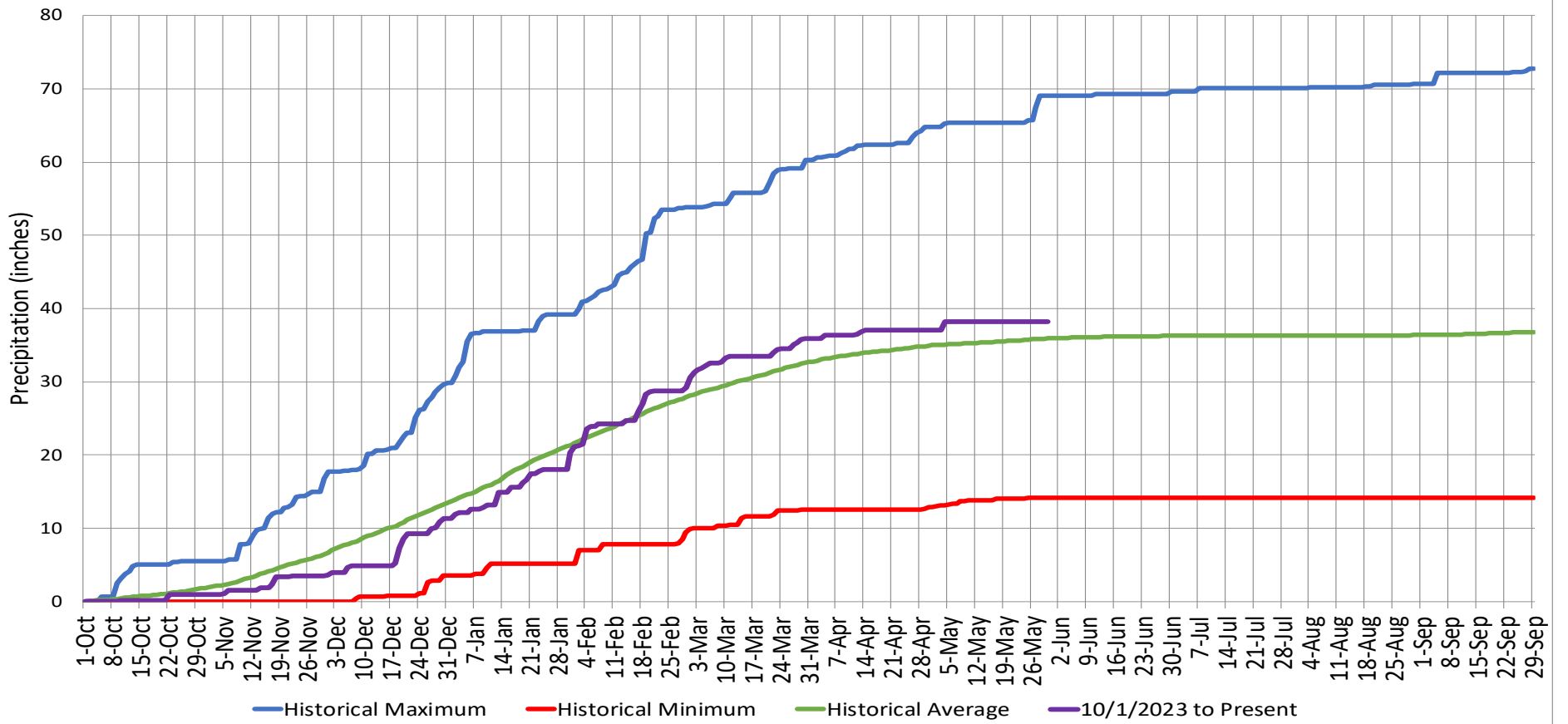


## Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

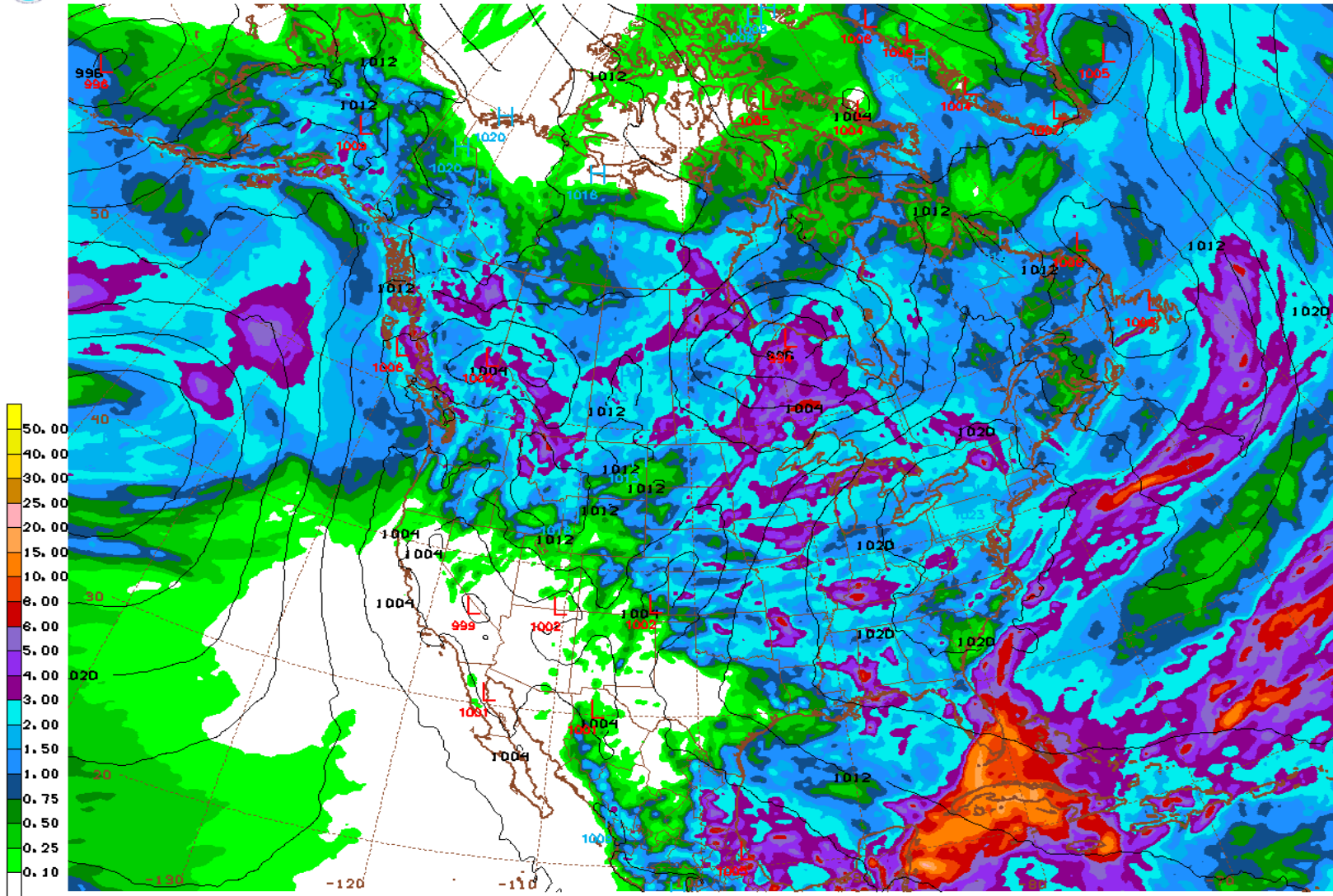
Date Range	Cumulative (inches)
Oct 1, 2023 - May 30, 2024	<b>38.22</b>
Last 7 Days*	<b>0.00</b>

Cumulative Precipitation Comparison of Current Year versus Historic Record



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

GFS 06/03/24 12UTC 384HR FCST VALID WED 06/19/24 12UTC NOAA/NWS/NCEP



GFS WED 240619/1200V384 EMSL (4MB), 384HR ACCUMULATED PRECIP (IN)

Date Range  
Jun 3 - Jun 19, 2024

Forecasted Cumulative (inches)  
**0.00**