



State Water Resources Control Board  
 Temporary Urgency Change Order (12/27/2023)  
 Russian River Hydrologic & Water Quality Report  
 May 10, 2024 - May 16, 2024

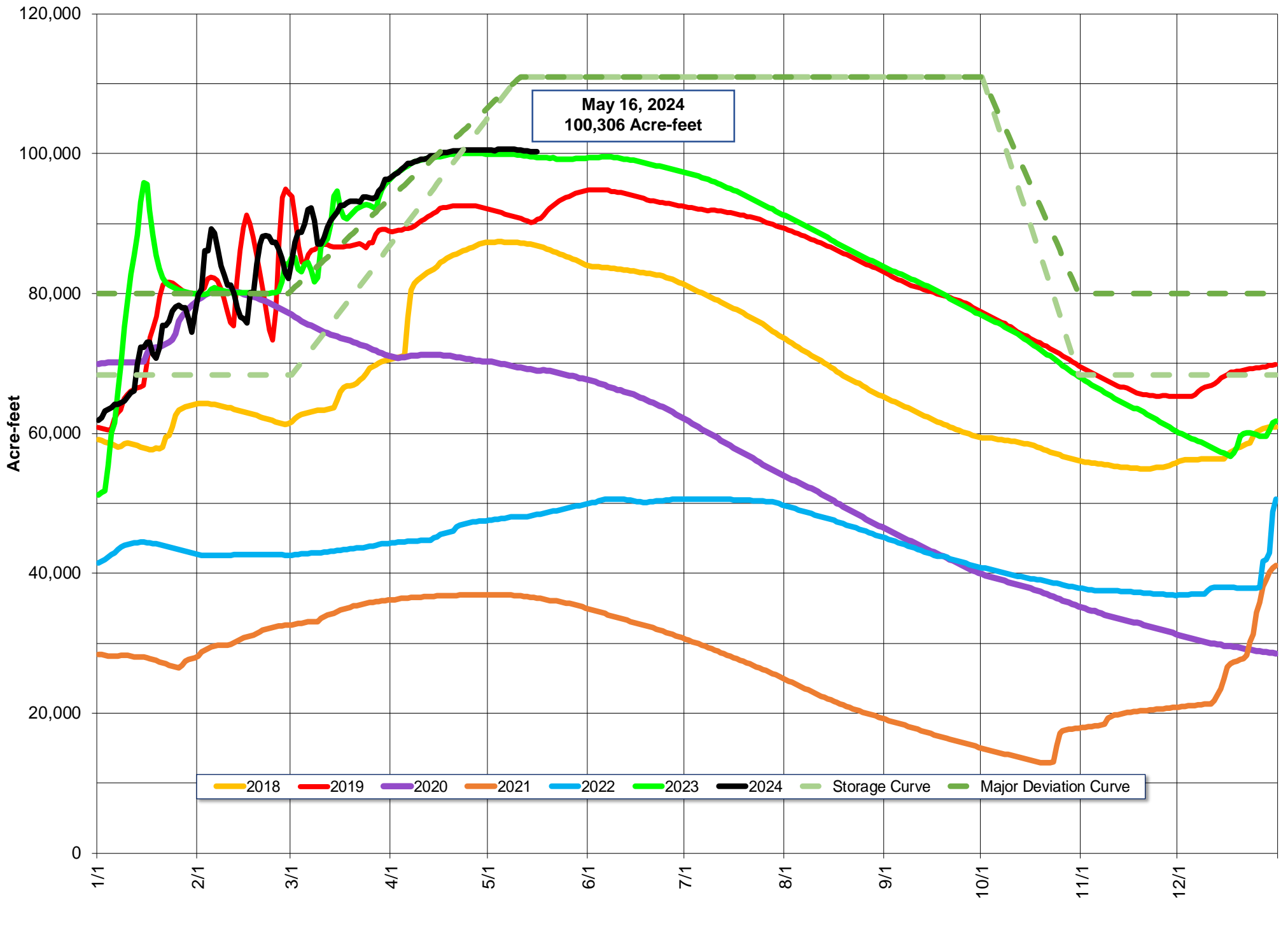
Prepared as a requirement of the Order approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A, 12949, 12950, and 16596 (Applications 12919A, 15736, 15737, and 19351).

**Instream Flow Requirements as of May 16, 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**



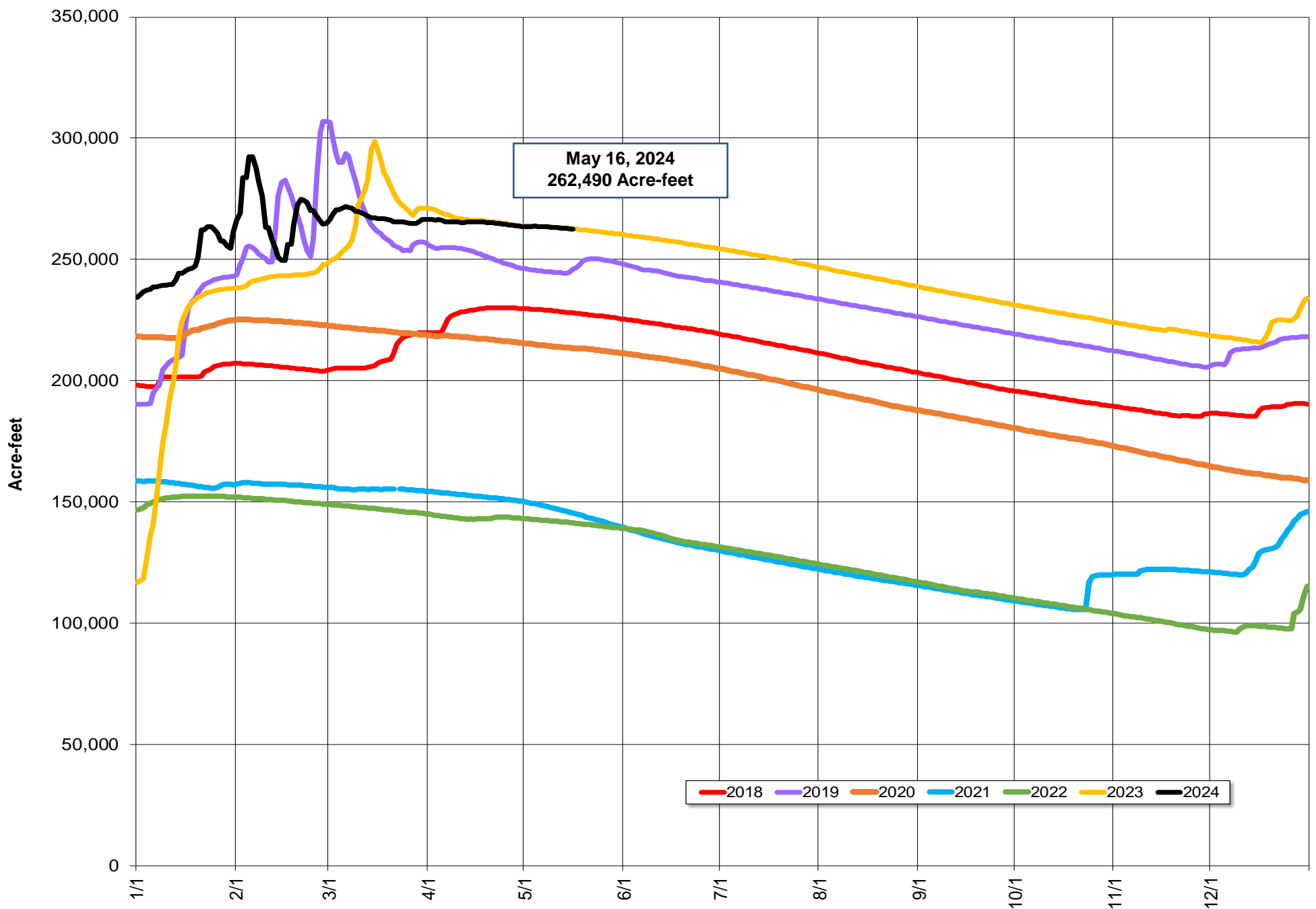
Storage (acre-feet)	May 16, 2024	<b>100,306</b>	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
	Last 7 days	<b>303</b>	<b>10</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>129</b>
		Max	<b>168</b>
		Mean	<b>150</b>
Release (cfs)	Last 7 days	Min	<b>151</b>
		Max	<b>162</b>
		Mean	<b>154</b>

# Lake Sonoma



Todd Schram, February 10, 2024

## Lake Sonoma Storage 2018-2024



Storage (acre-feet)	May 16, 2024	<b>262,490</b>	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
		<b>-3,053</b>	<b>-102</b>
		<b>-886</b>	<b>-127</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>43</b>
		Max	<b>63</b>
		Mean	<b>74</b>
Release (cfs)	Last 7 days	Min	<b>98</b>
		Max	<b>101</b>
		Mean	<b>100</b>

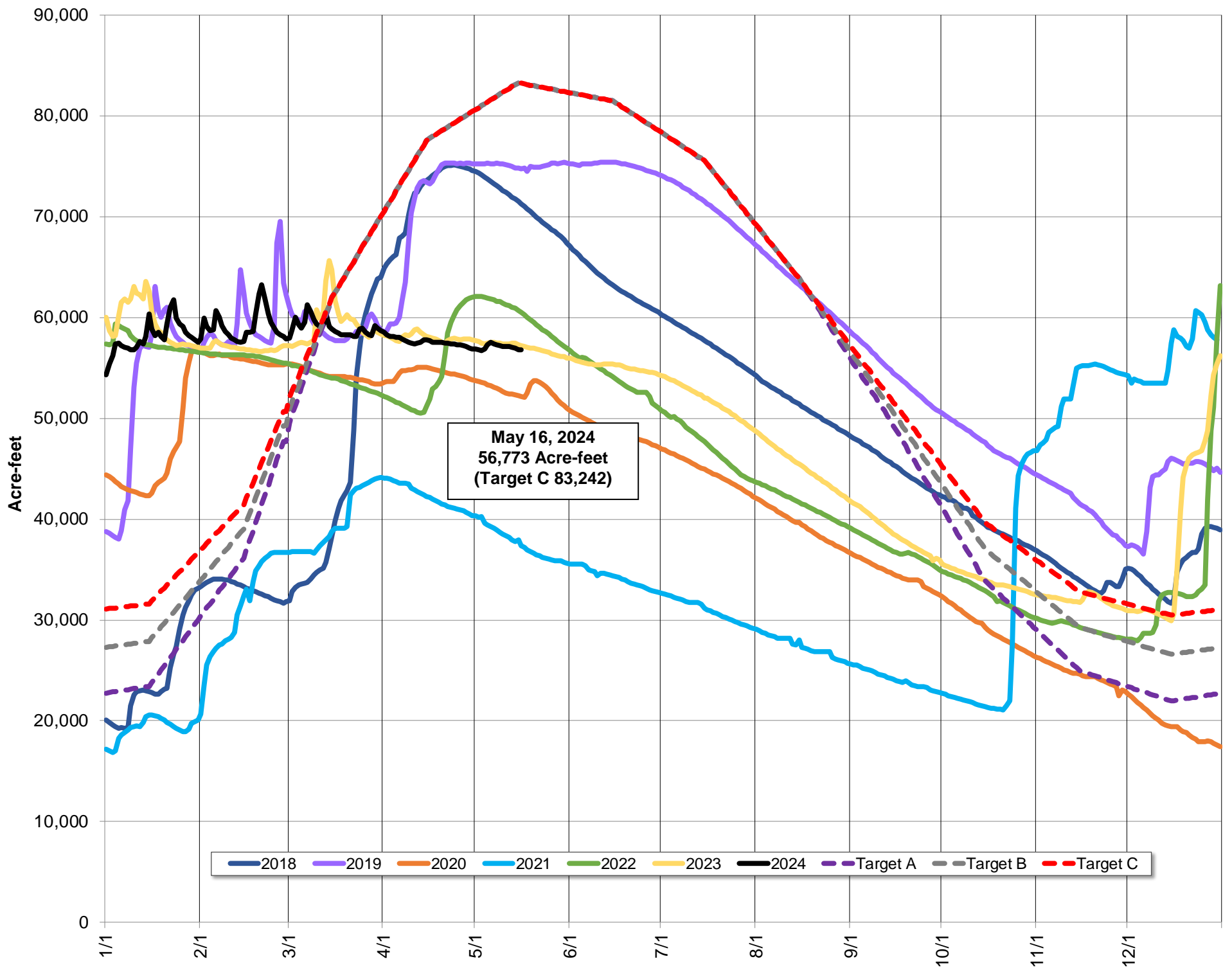
# Potter Valley Project

PVP Diversion (cfs)	May 16, 2024	130
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2023 - May 16, 2024	472,108	2,062
	Last 7 days	4,766	681

\*Inflow calculation based on criteria established in D1610

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

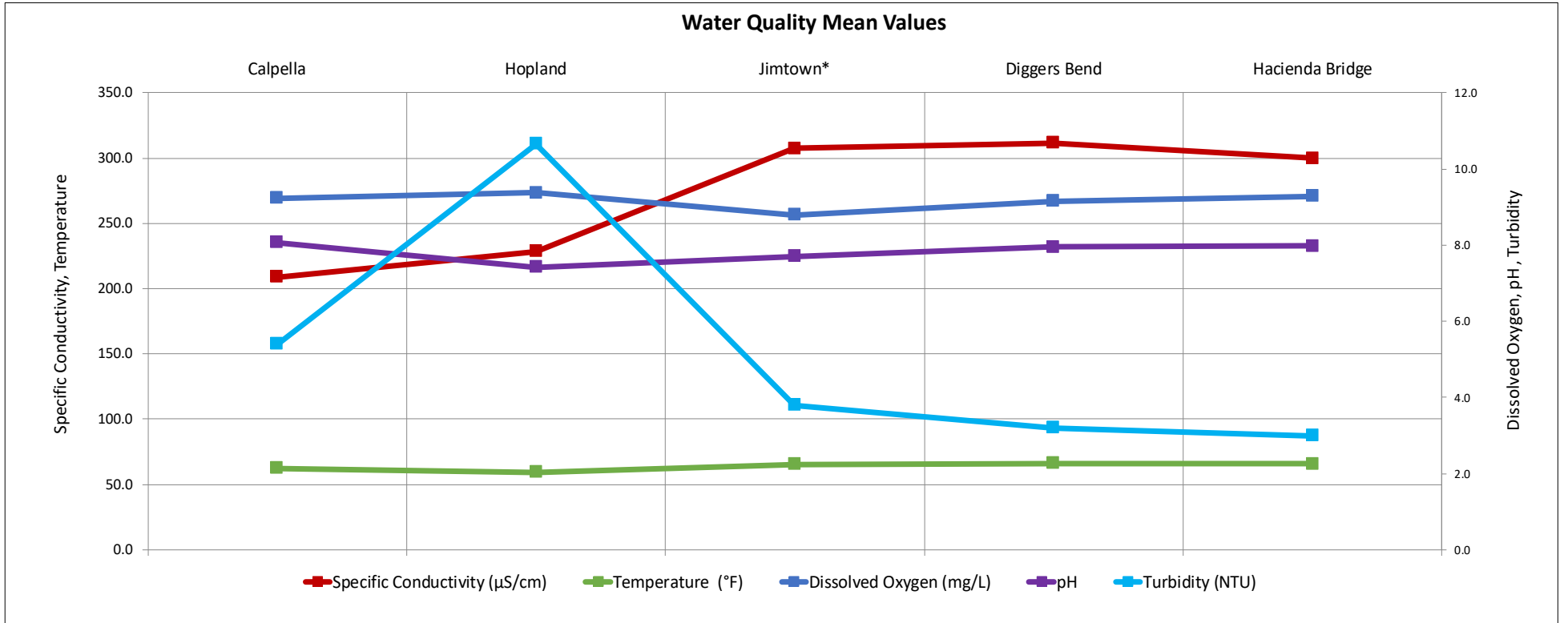


## Russian River Flows (May 10, 2024 - May 16, 2024)

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	57.7	56.7		61.0	62.2		62.6	
	Max	66.6	61.7		68.5	69.3		68.4	
	Mean	62.5	59.5		65.2	66.1		65.6	
Specific Conductivity (µS/cm)	Min	195.0	225.0		306.0	310.0		296.0	
	Max	219.0	232.0		308.0	314.0		303.0	
	Mean	208.9	228.5		307.6	311.6		299.8	
Dissolved Oxygen (mg/L)	Min	8.7	8.8		7.7	7.5		8.1	
	Max	10.0	10.1		10.2	11.2		10.5	
	Mean	9.2	9.4		8.8	9.2		9.3	
Dissolved Oxygen (% Saturation)	Min	91.8	87.7		81.0	79.9		85.0	
	Max	102.9	102.5		111.7	124.4		115.3	
	Mean	95.4	93.5		93.9	98.8		99.4	
pH	Min	8.0	7.2		7.6	7.7		7.8	
	Max	8.2	7.5		7.9	8.3		8.2	
	Mean	8.1	7.4		7.7	7.9		8.0	
Turbidity (NTU)	Min	2.6	9.6		2.7	2.1		2.0	
	Max	11.5	12.7		9.6	4.8		4.3	
	Mean	5.4	10.7		3.8	3.2		3.0	

\*Station operated seasonally

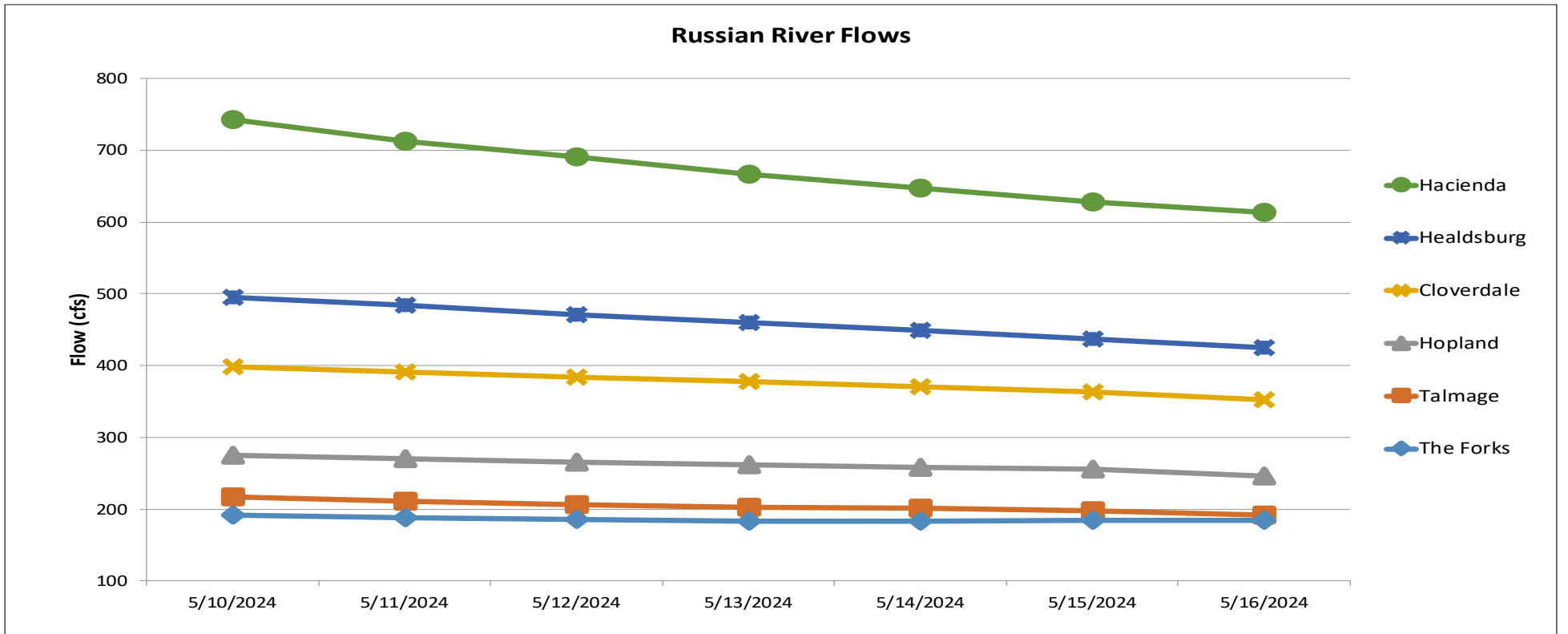
### Water Quality Mean Values



Gage	24-hr Average Flow (cfs)						
	May 10, 2024	May 11, 2024	May 12, 2024	May 13, 2024	May 14, 2024	May 15, 2024	May 16, 2024
The Forks*	191	188	186	184	183	185	184
Talmage USGS 11462080	217	211	207	203	201	198	192
Hopland USGS 11462500	276	270	266	262	258	255	246
Cloverdale USGS 11463000	399	391	384	377	371	364	353
Healdsburg USGS 11464000	496	484	471	460	449	437	425
Hacienda USGS 11467000	742	713	691	667	648	628	614

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

### Russian River Flows

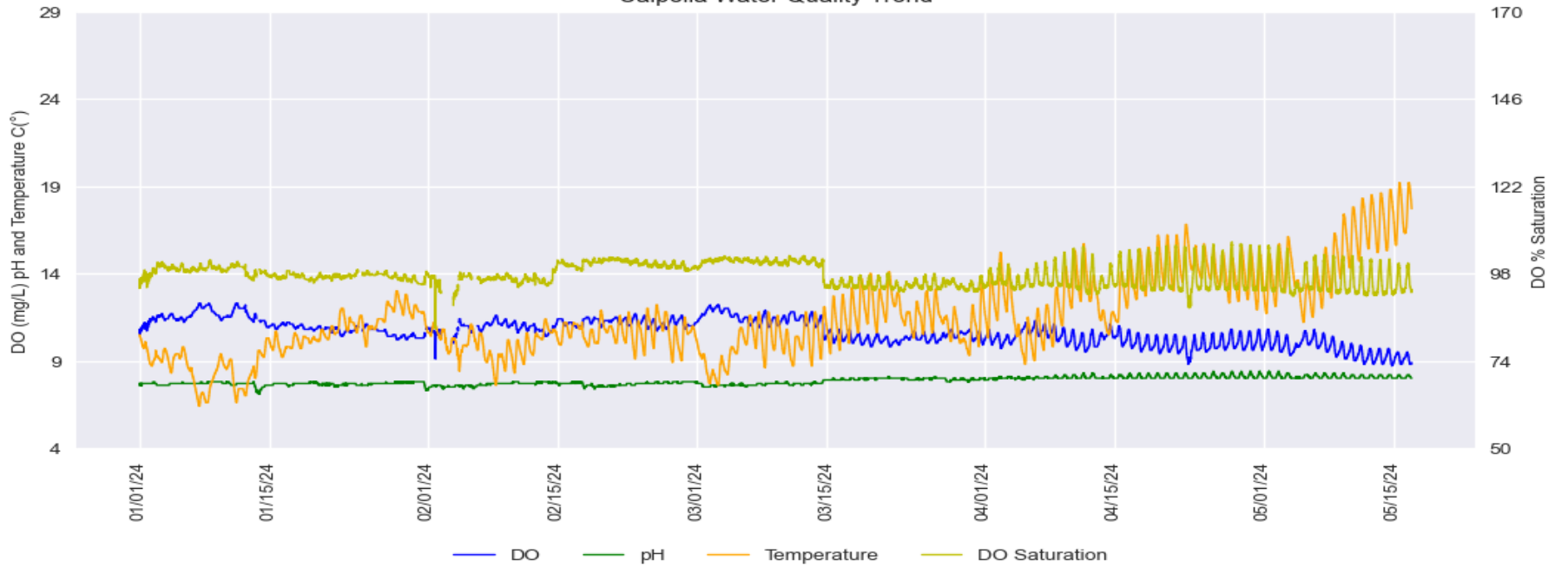


Russian River Water Quality January 1, 2024 – May 16, 2024

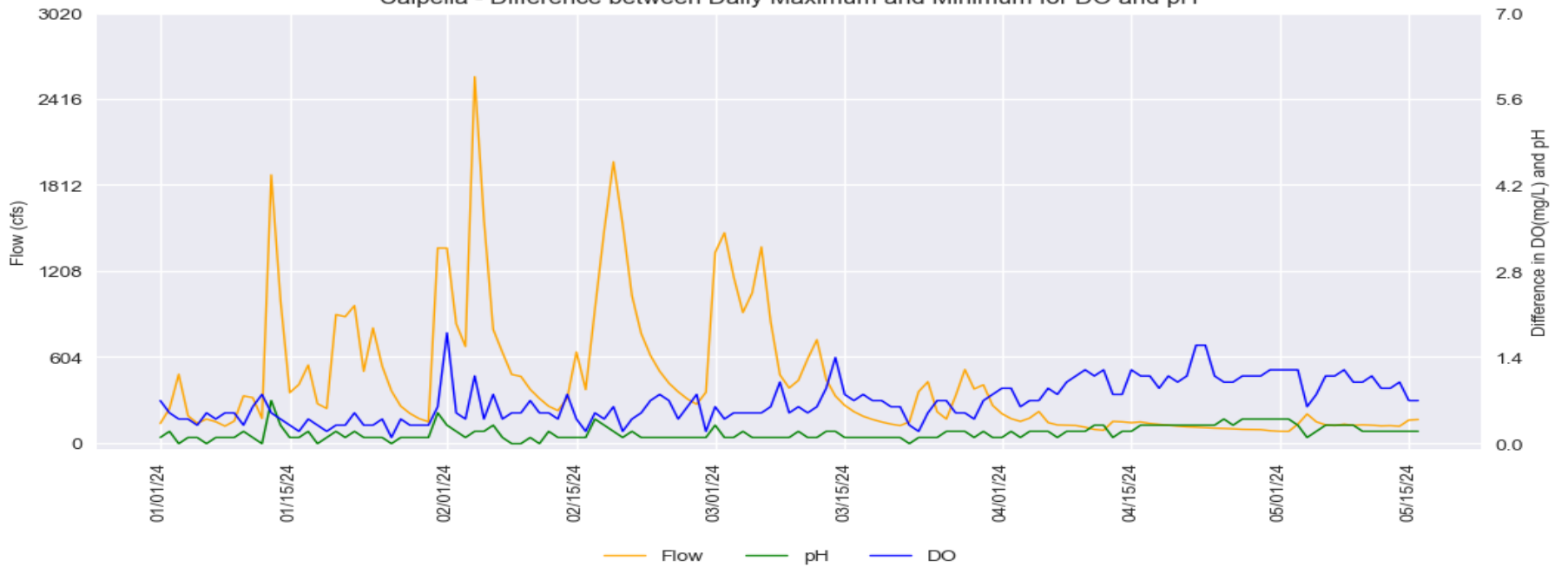
Provisional Data Subject to Revision

**Calpella**

Calpella Water Quality Trend

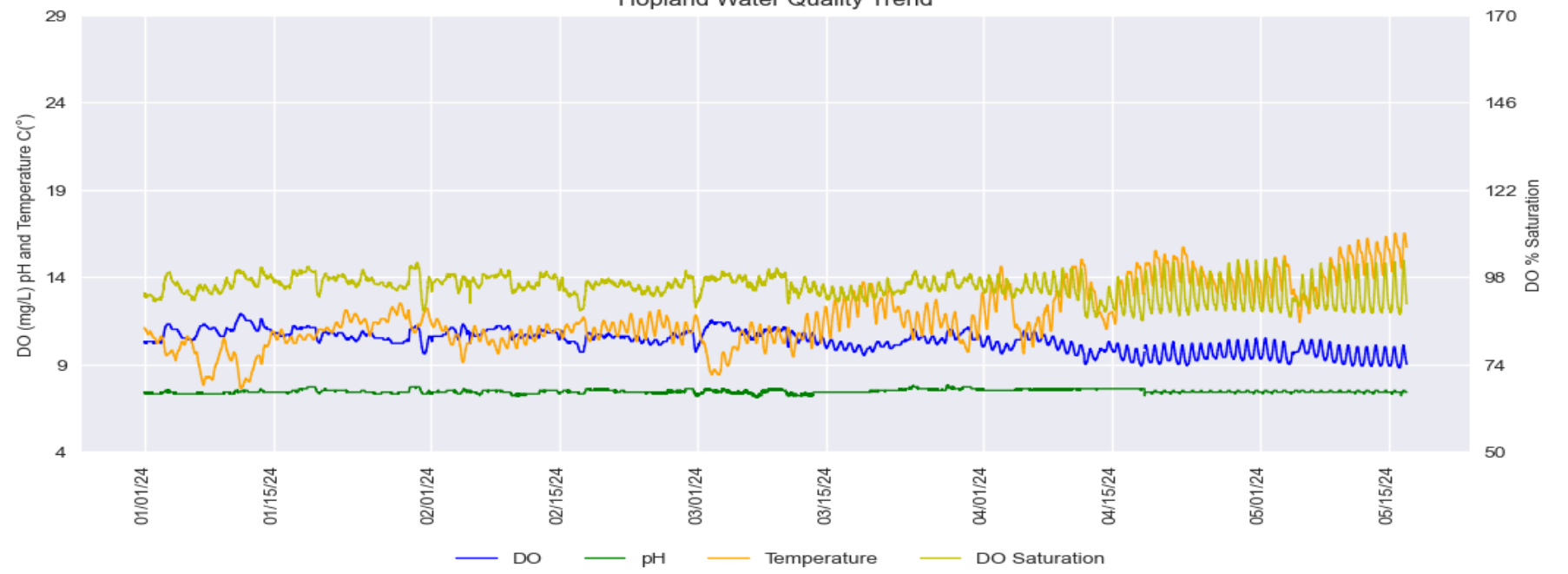


Calpella - Difference between Daily Maximum and Minimum for DO and pH

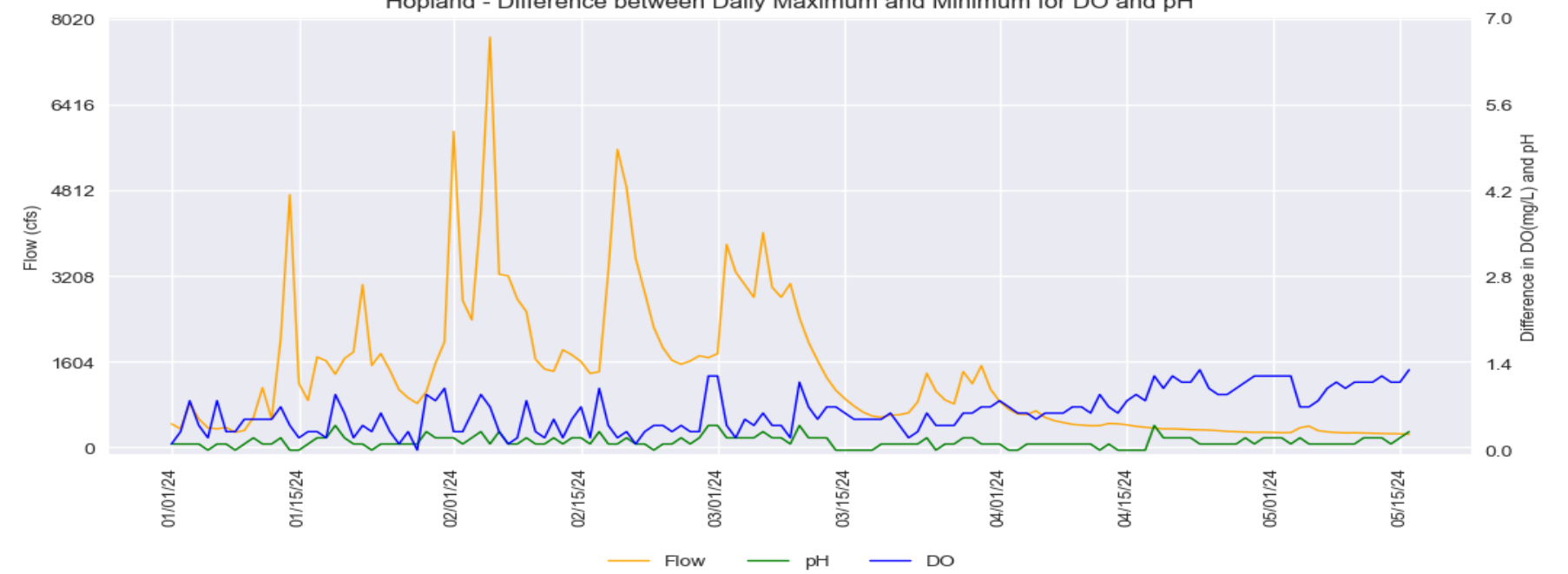


**Hopland**

Hopland Water Quality Trend



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

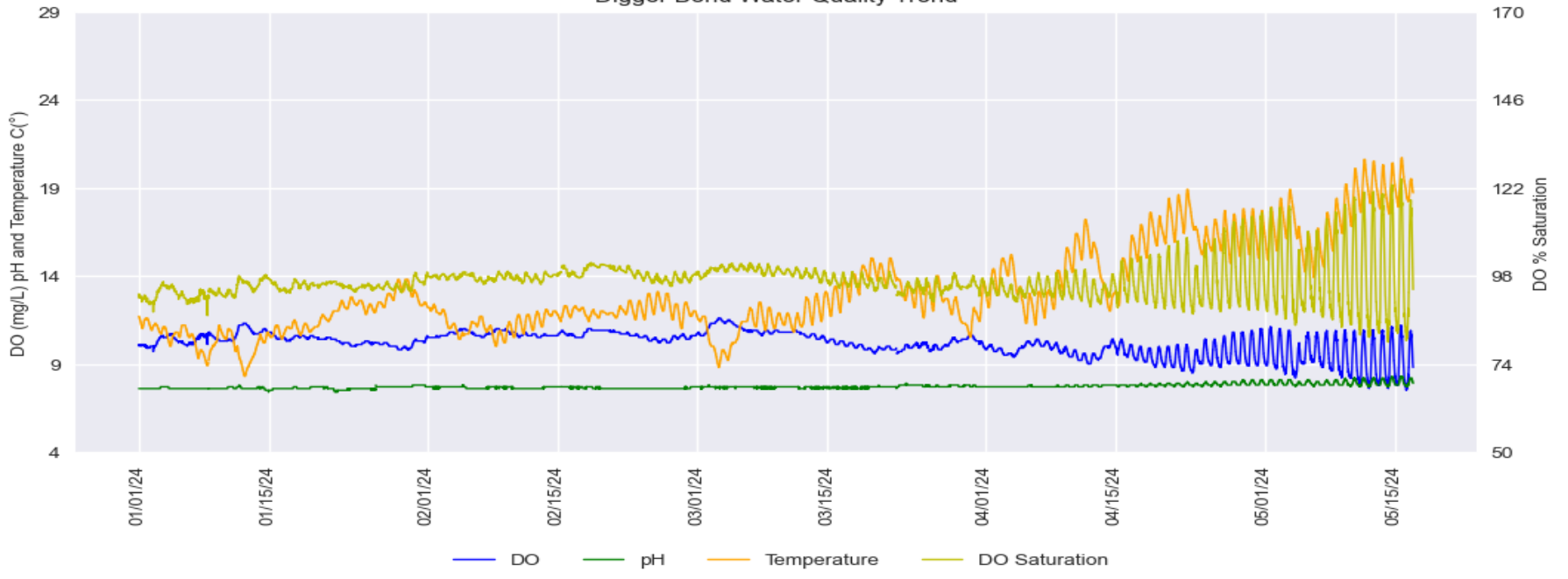


# Russian River Water Quality January 1, 2024 – May 16, 2024

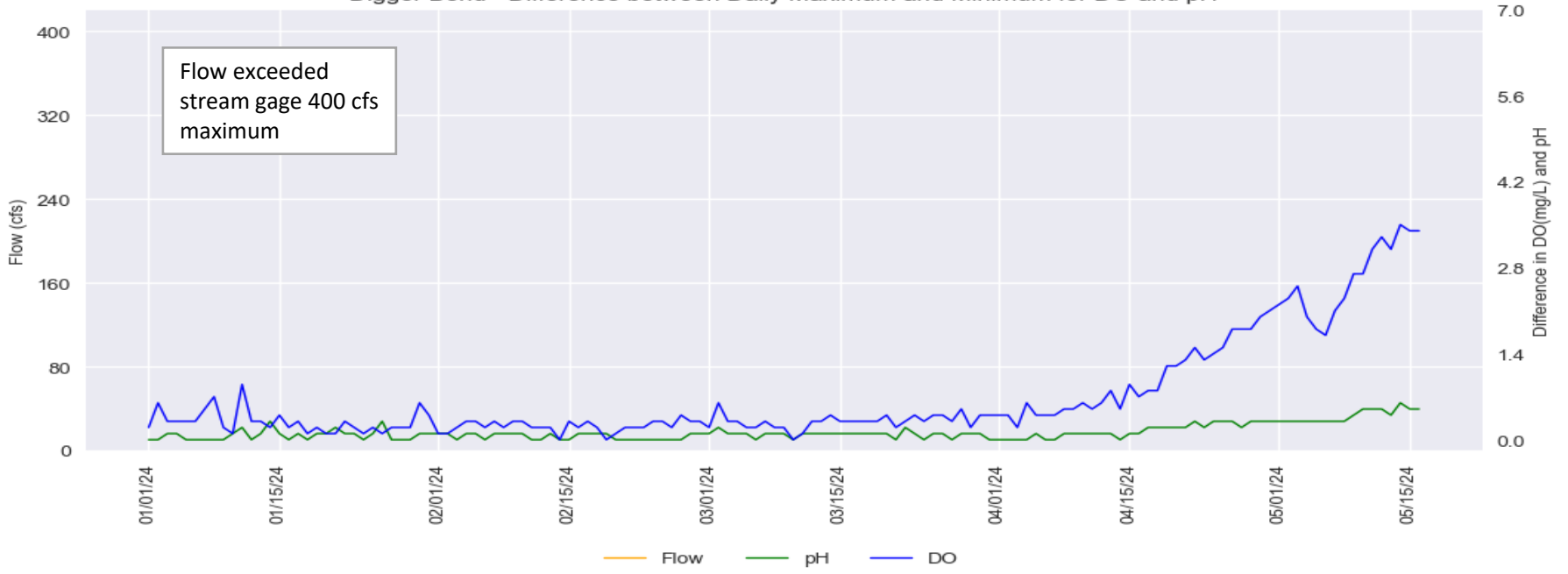
Provisional Data Subject to Revision

## Digger Bend

### Digger Bend Water Quality Trend

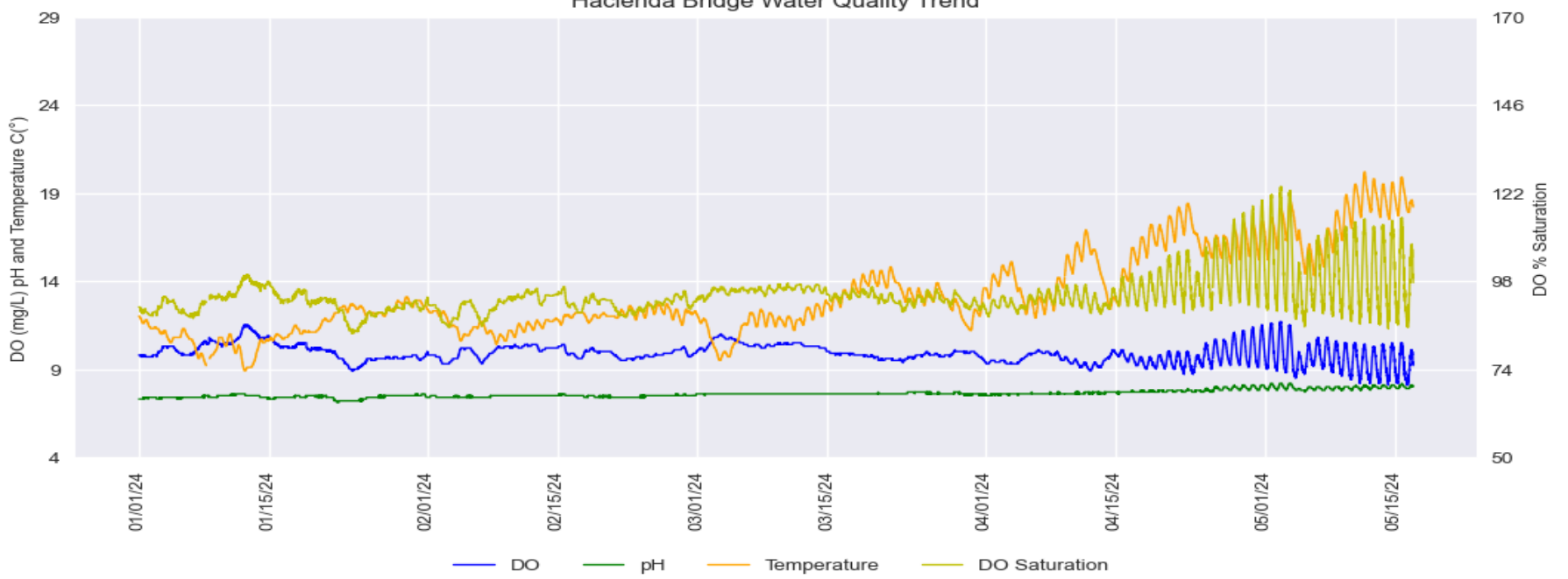


### Digger Bend - Difference between Daily Maximum and Minimum for DO and pH

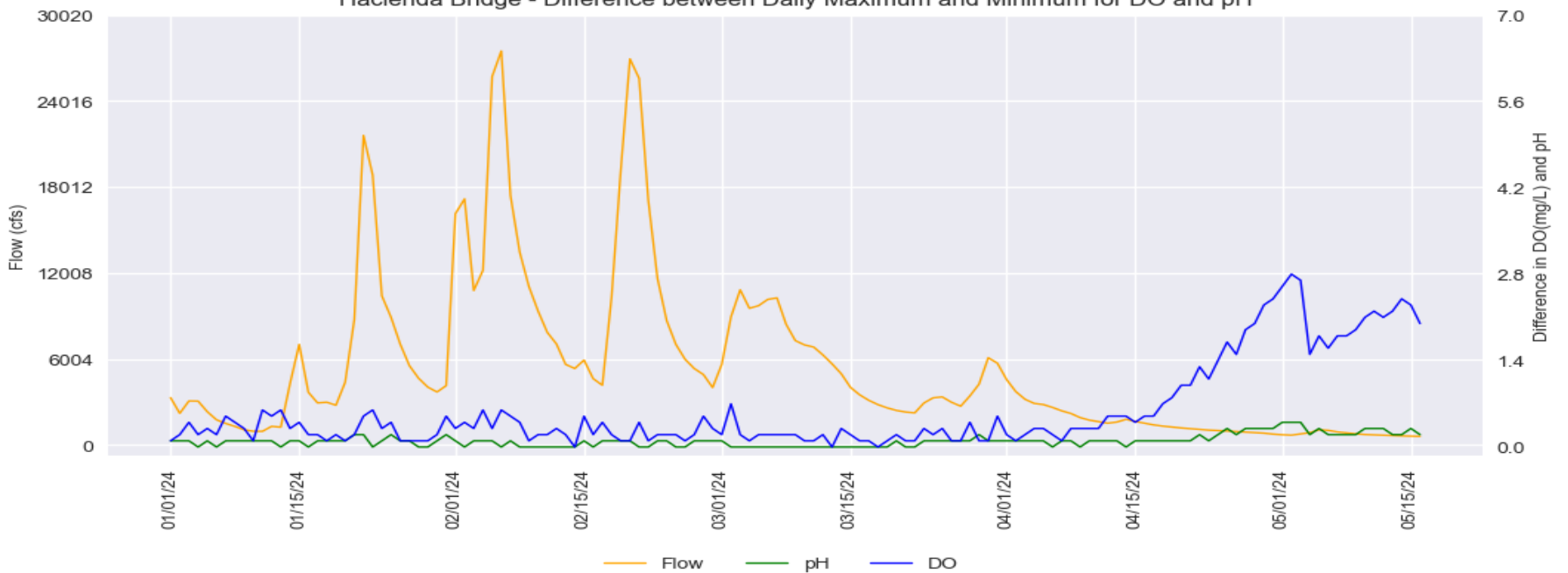


## Hacienda Bridge

### Hacienda Bridge Water Quality Trend



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

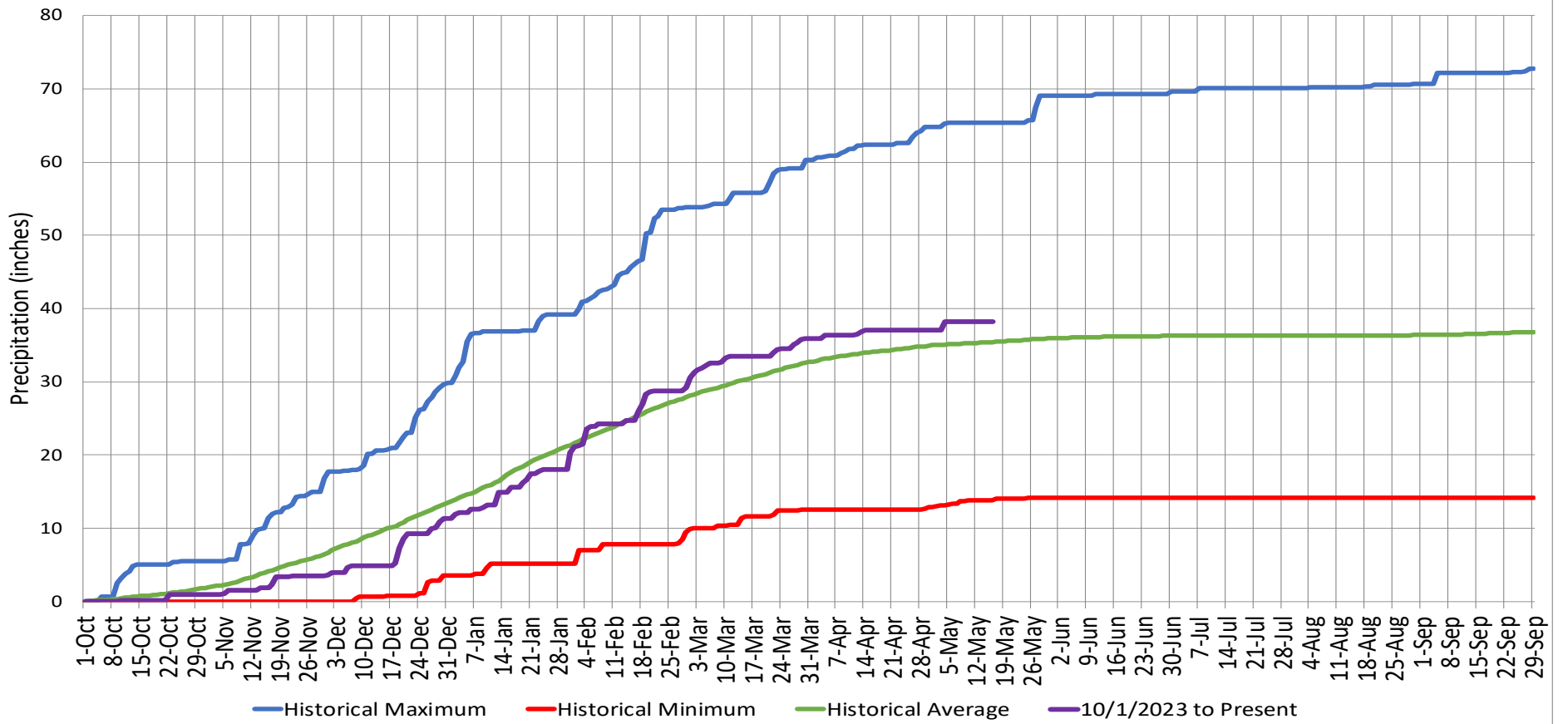


# Precipitation

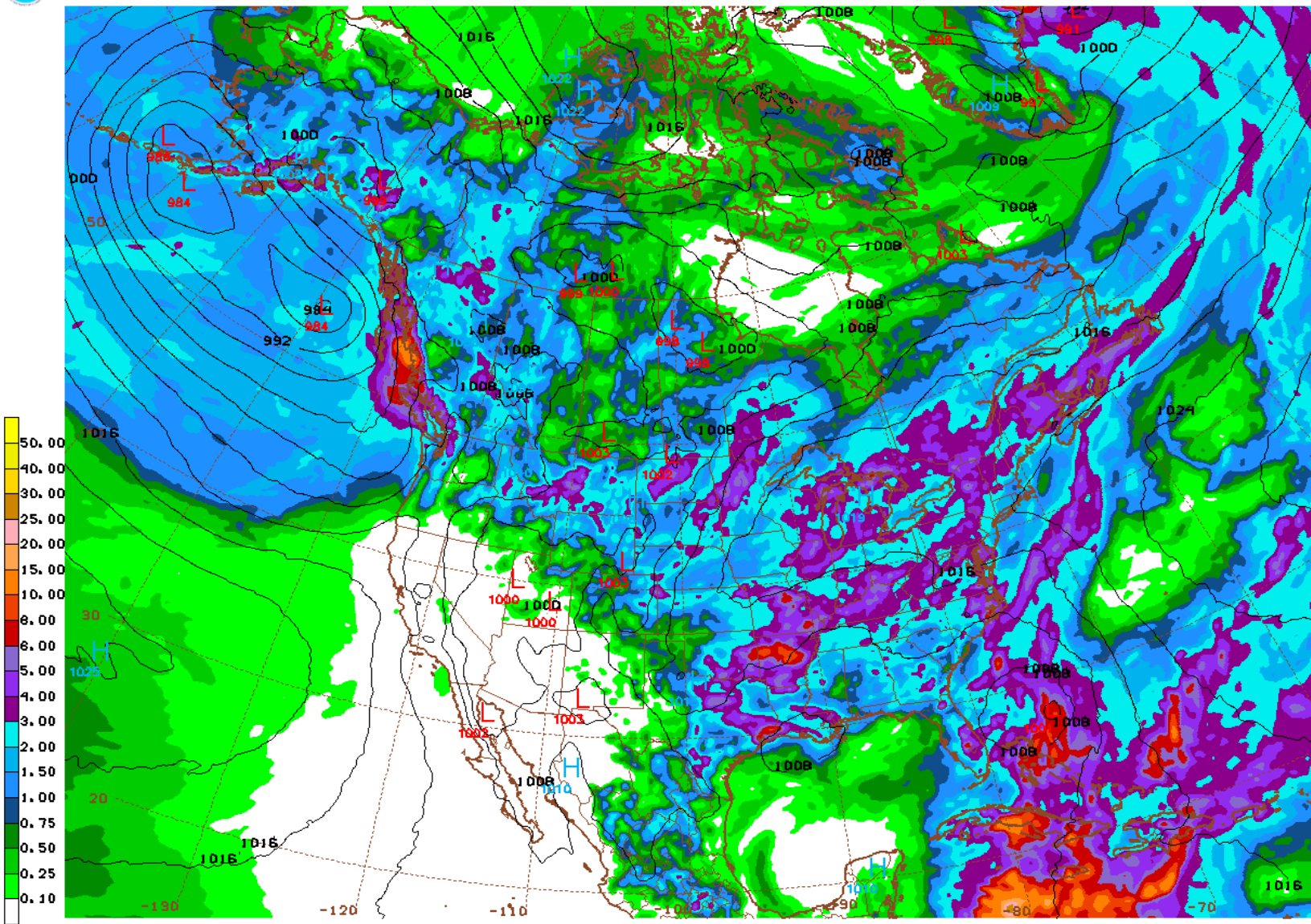
Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

Date Range	Cumulative (inches)
Oct 1, 2023 - May 16, 2024	<b>38.22</b>
Last 7 Days*	<b>0.00</b>

Cumulative Precipitation Comparison of Current Year versus Historic Record



6FS 05/20/24 12UTC 384HR FCST VALID MED 06/05/24 12UTC NOAA/NWS/NCEP



6FS MED 240605/1200V384 ENSL (4MB), 384HR ACCUMULATED PRECIP (IN)

Date Range  
May 20 - Jun 5, 2024

Forecasted Cumulative (inches)  
**0.00**