



State Water Resources Control Board  
 Temporary Urgency Change Orders (10/31/2024)  
 Russian River Hydrologic & Water Quality Report  
 November 1, 2024 - November 7, 2024

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

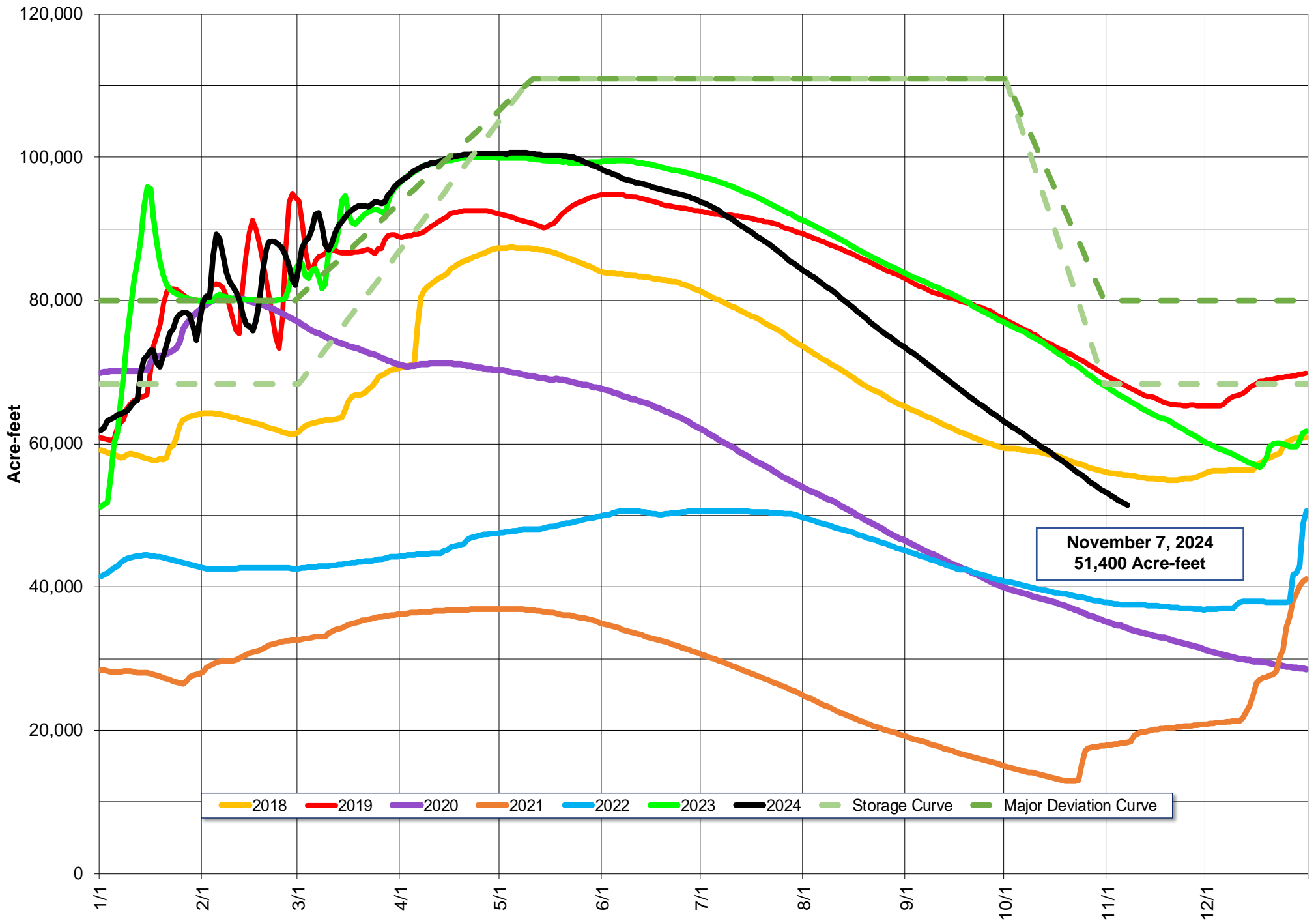
**Instream Flow Requirements as of November 7, 2024**

Basis	Reach	Instantaneous (cfs)	5-day Average (cfs)
Modified Per Order: Normal Condition	Upper Russian River	<b>150</b>	-
Modified Per Order: Normal Condition	Dry Creek	<b>105</b>	-
Modified Per Order: Normal Condition	Lower Russian River	<b>125</b>	-

Upper and Lower Russian River are based on criteria as established in the Order issued 10/31/2024.

**Lake Mendocino**

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



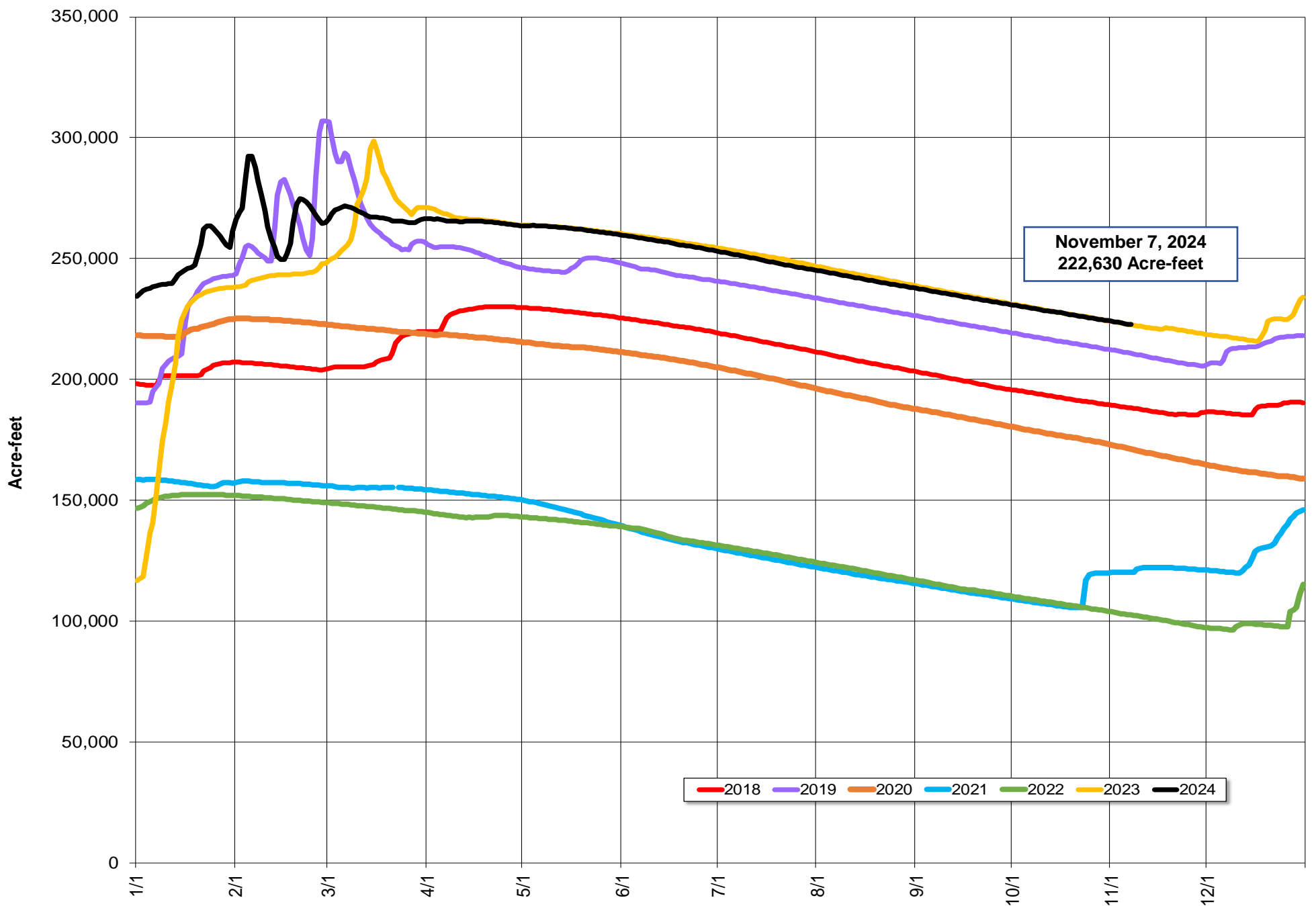
Storage (acre-feet)	November 7, 2024	<b>51,400</b>	
Change in Storage (acre-feet)	Last 30 days	<b>-9,450</b>	<b>-315</b>
	Last 7 days	<b>-1,681</b>	<b>-240</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>42</b>
		Max	<b>64</b>
		Mean	<b>51</b>
Release (cfs)	Last 7 days	Min	<b>170</b>
		Max	<b>193</b>
		Mean	<b>187</b>

# Lake Sonoma



Todd Schram, February 10, 2024

## Lake Sonoma Storage 2018-2024



Storage (acre-feet)	November 7, 2024	<b>222,630</b>	
Change in Storage (acre-feet)	Last 30 days	<b>-6,645</b>	<b>-222</b>
	Last 7 days	<b>-1,661</b>	<b>-237</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>0</b>
		Max	<b>53</b>
		Mean	<b>9</b>
Release (cfs)	Last 7 days	Min	<b>110</b>
		Max	<b>111</b>
		Mean	<b>110</b>

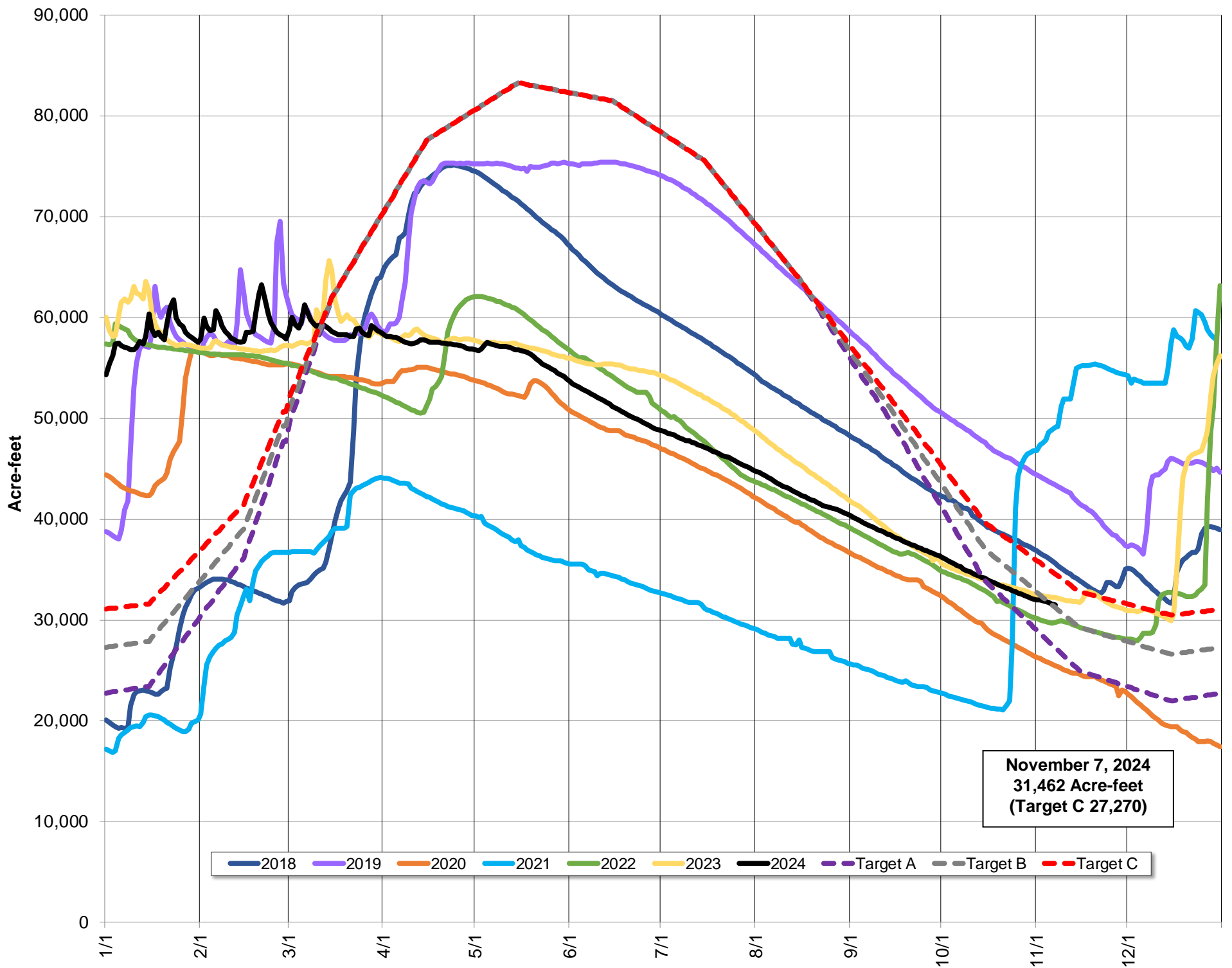
# Potter Valley Project

PVP Diversion (cfs)	November 7, 2024	45
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2023 - November 7, 2024	1,733	46
	Last 7 days	478	68

\*Inflow calculation based on criteria established in D1610

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

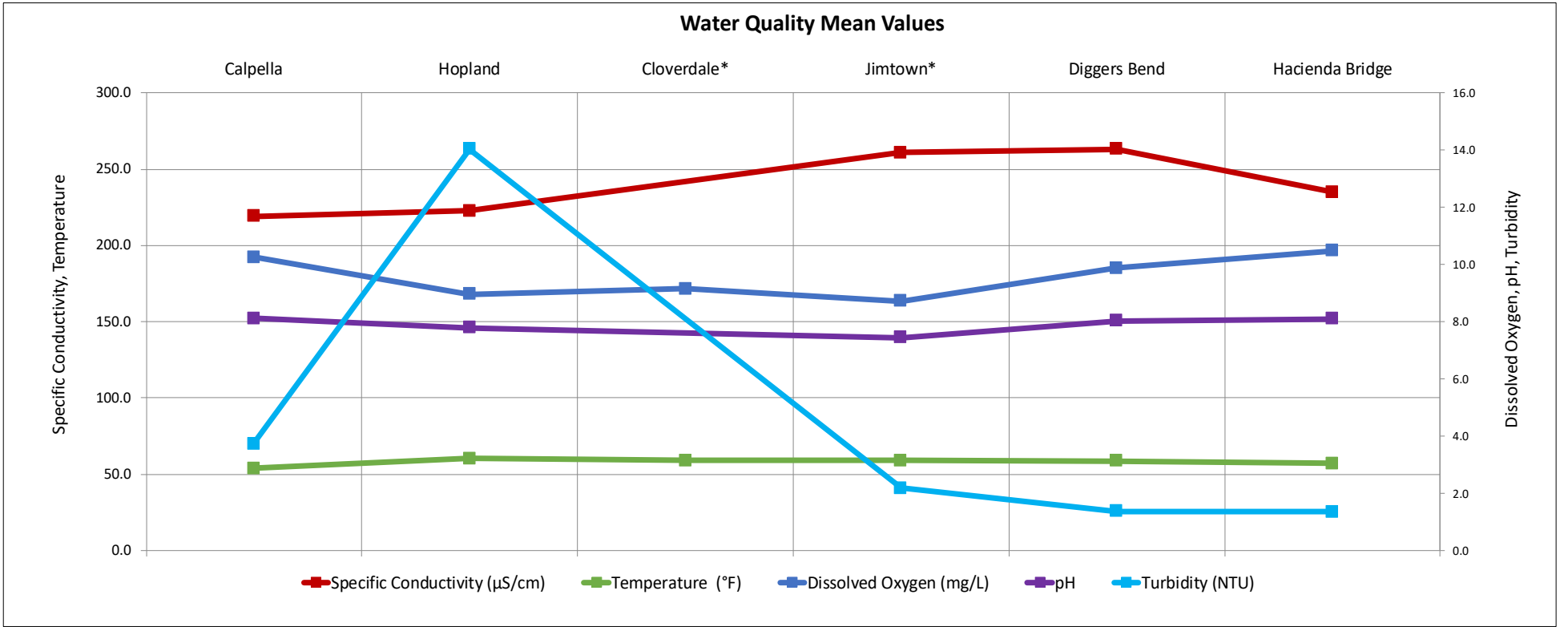


### Russian River Flows (November 1, 2024 - November 7, 2024)

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	52.2	58.1	59.0	57.2	56.8		55.6	
	Max	55.4	61.9	59.0	60.6	60.3		58.3	
	Mean	53.8	60.3	59.0	59.0	58.5		57.0	
Specific Conductivity (µS/cm)	Min	212.0	212.0		261.0	259.0		228.0	
	Max	224.0	226.0		261.0	267.0		243.0	
	Mean	219.2	222.7		261.0	263.3		235.2	
Dissolved Oxygen (mg/L)	Min	9.9	8.4	9.1	8.7	8.3		9.7	
	Max	10.8	9.4	9.2	8.8	12.0		11.3	
	Mean	10.2	9.0	9.2	8.7	9.9		10.5	
Dissolved Oxygen (% Saturation)	Min	92.5	84.7	90.3	85.9	80.9		93.0	
	Max	101.1	94.6	91.3	87.1	120.8		110.8	
	Mean	95.3	90.3	90.8	86.2	97.4		101.4	
pH	Min	8.0	7.7		7.4	7.7		7.9	
	Max	8.2	7.8		7.5	8.5		8.3	
	Mean	8.1	7.8		7.5	8.0		8.1	
Turbidity (NTU)	Min	1.8	10.1		2.1	1.0		0.8	
	Max	5.8	18.6		2.2	1.9		2.2	
	Mean	3.7	14.0		2.2	1.4		1.3	

\*Station operated seasonally

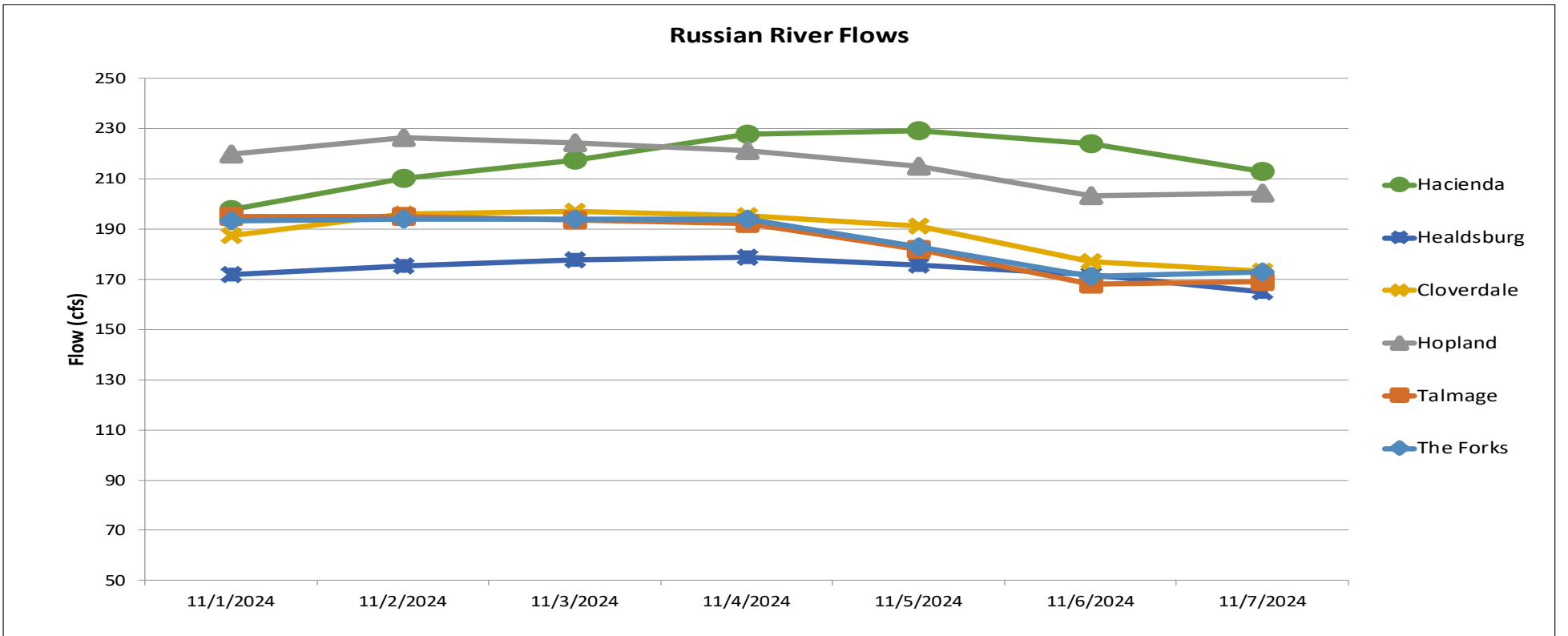
#### Water Quality Mean Values



Gage	24-hr Average Flow (cfs)						
	Nov 1, 2024	Nov 2, 2024	Nov 3, 2024	Nov 4, 2024	Nov 5, 2024	Nov 6, 2024	Nov 7, 2024
The Forks*	193	194	194	194	183	171	173
Talmage USGS 11462080	195	195	194	192	182	168	169
Hopland USGS 11462500	220	227	224	221	215	203	204
Cloverdale USGS 11463000	187	196	197	195	191	177	173
Healdsburg USGS 11464000	172	175	178	179	176	172	165
Hacienda USGS 11467000	198	210	218	228	229	224	213

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

#### Russian River Flows

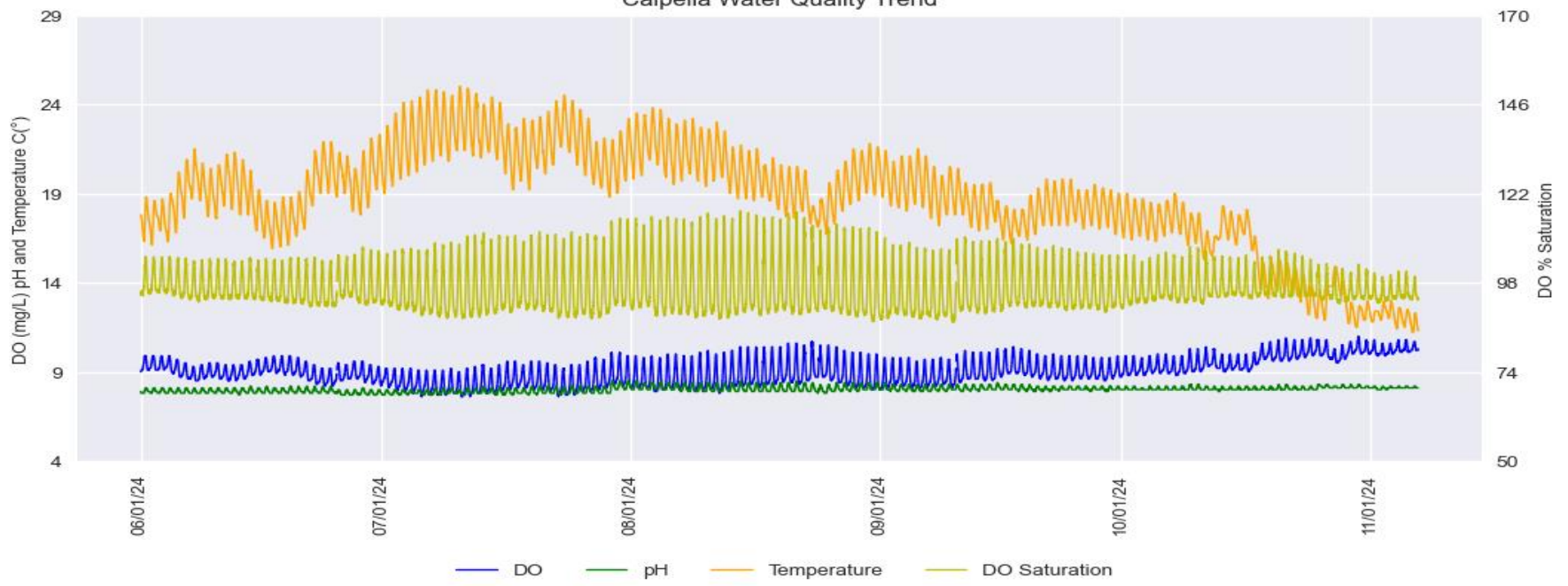


# Russian River Water Quality June 1, 2024 – November 7, 2024

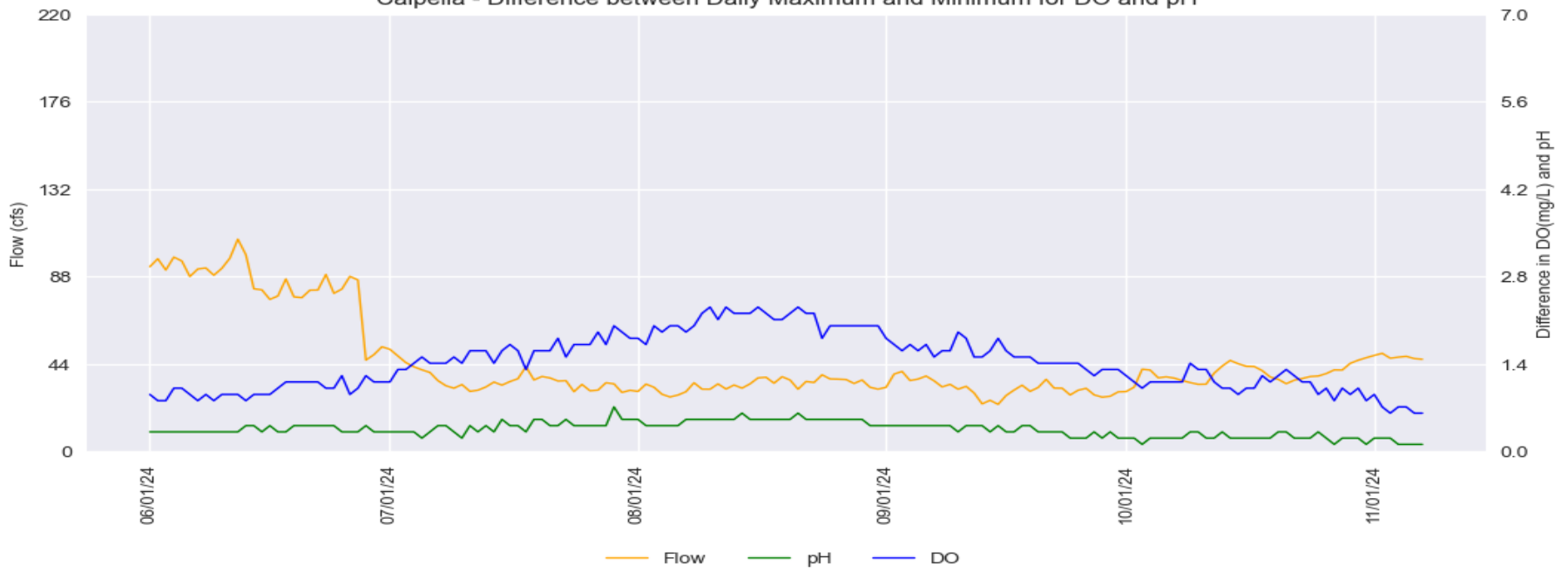
Provisional Data Subject to Revision

## Calpella

### Calpella Water Quality Trend

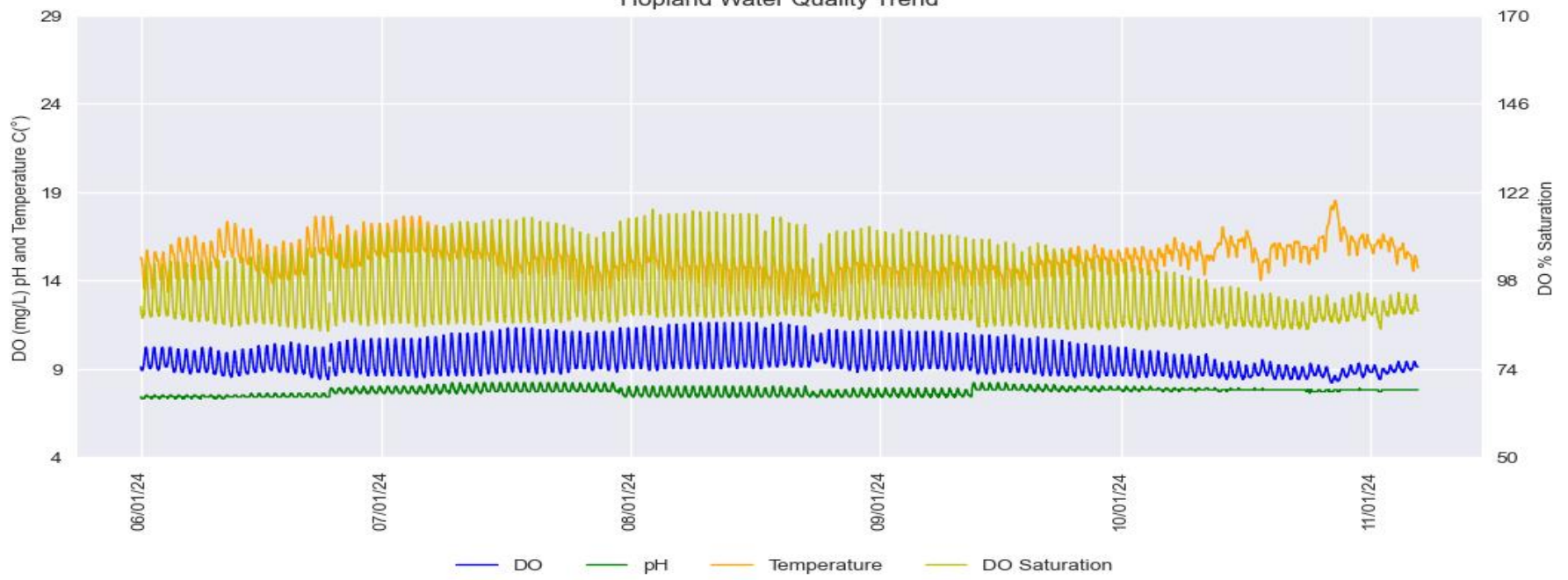


### Calpella - Difference between Daily Maximum and Minimum for DO and pH

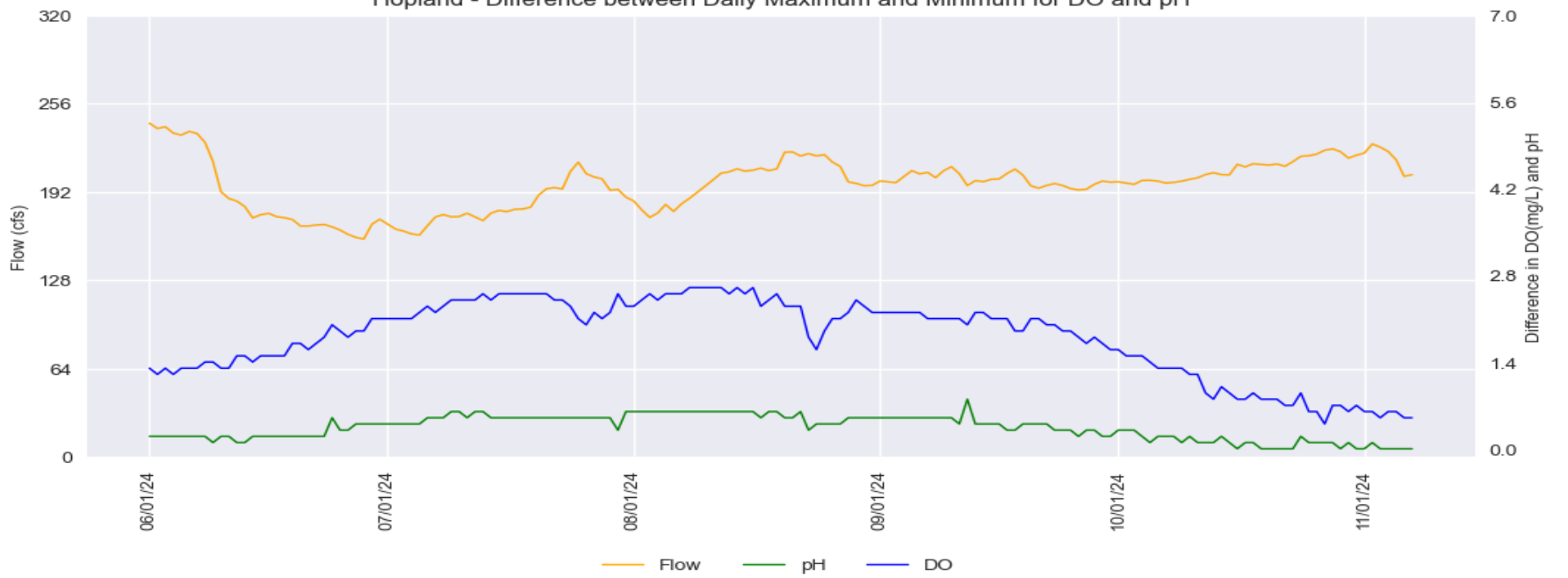


## Hopland

### Hopland Water Quality Trend



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

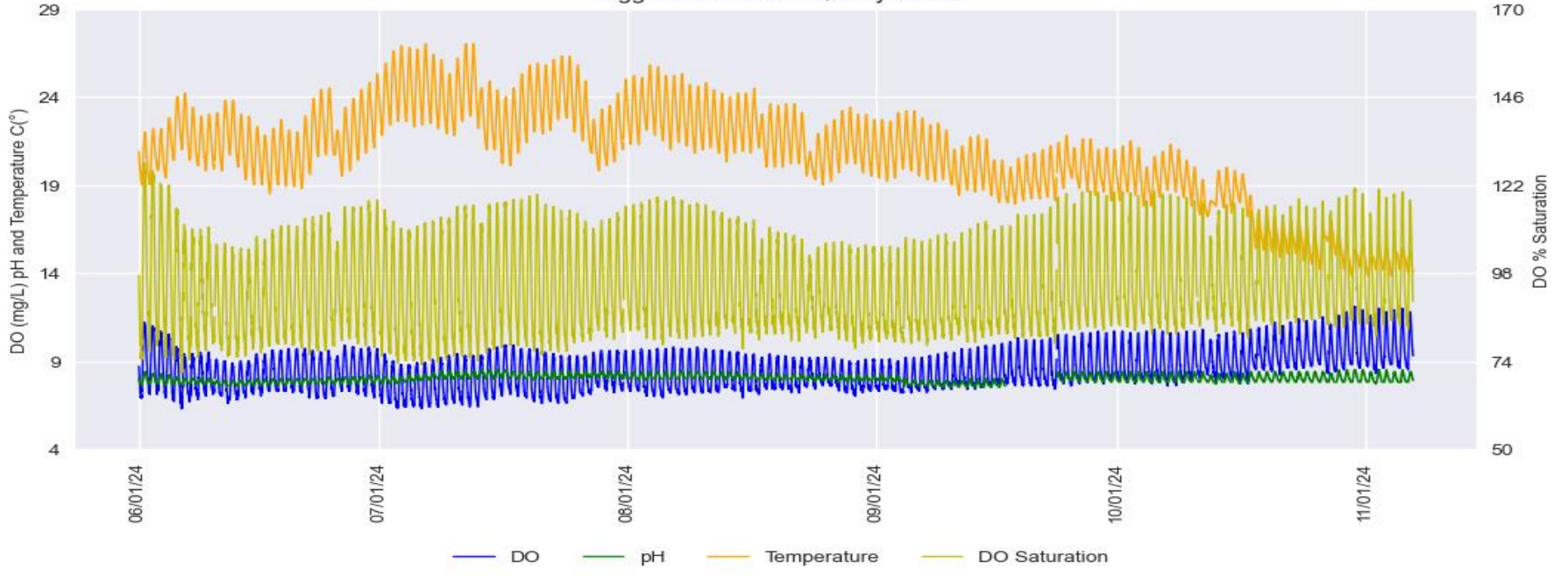


Russian River Water Quality June 1, 2024 – November 7, 2024

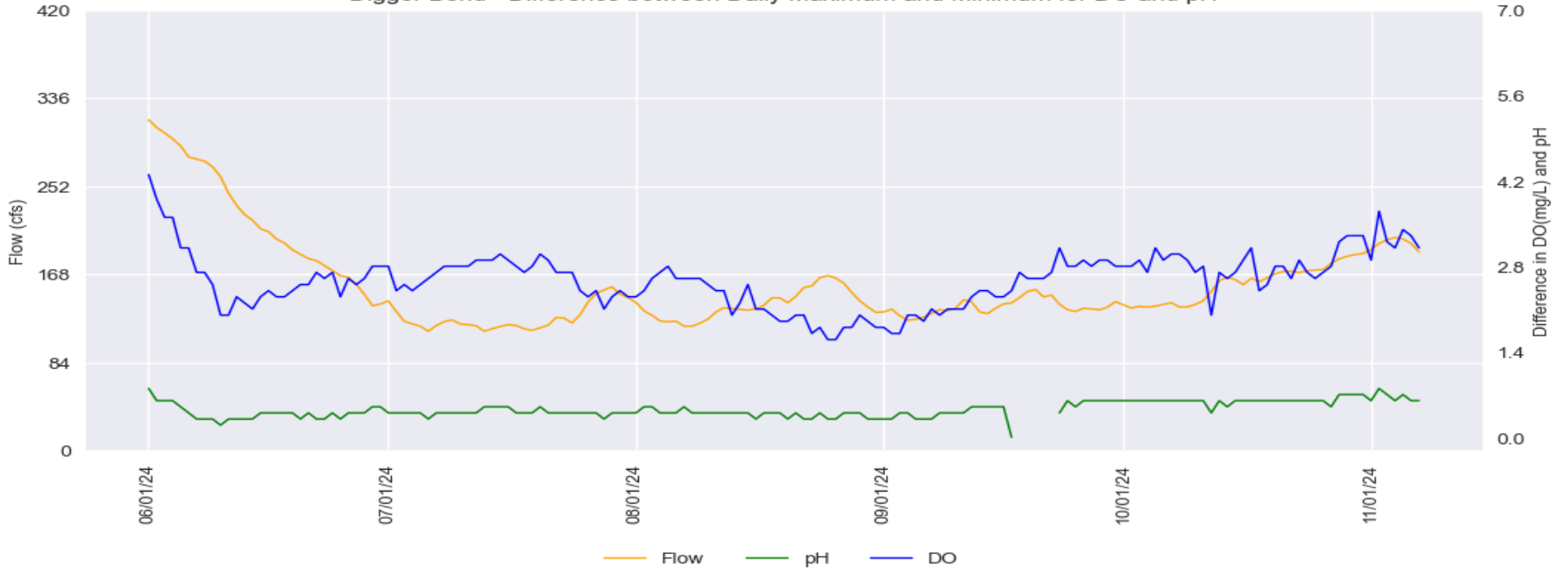
Provisional Data Subject to Revision

**Digger Bend**

Digger Bend Water Quality Trend

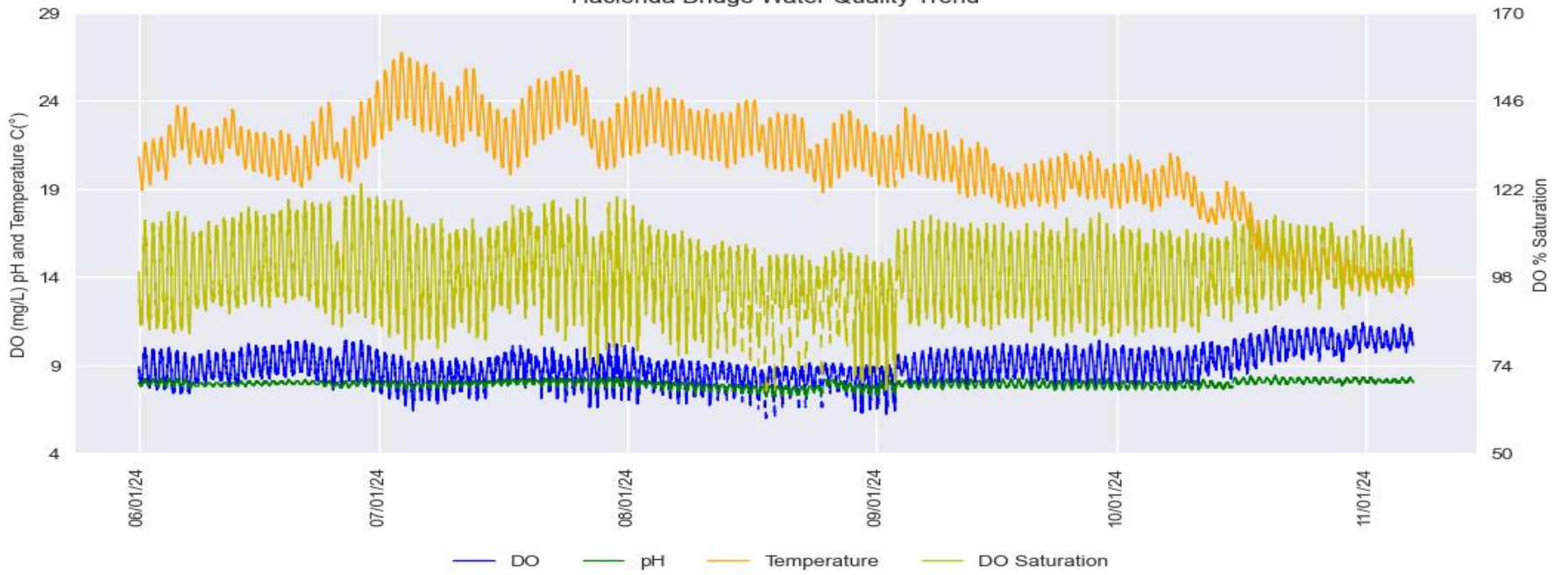


Digger Bend - Difference between Daily Maximum and Minimum for DO and pH

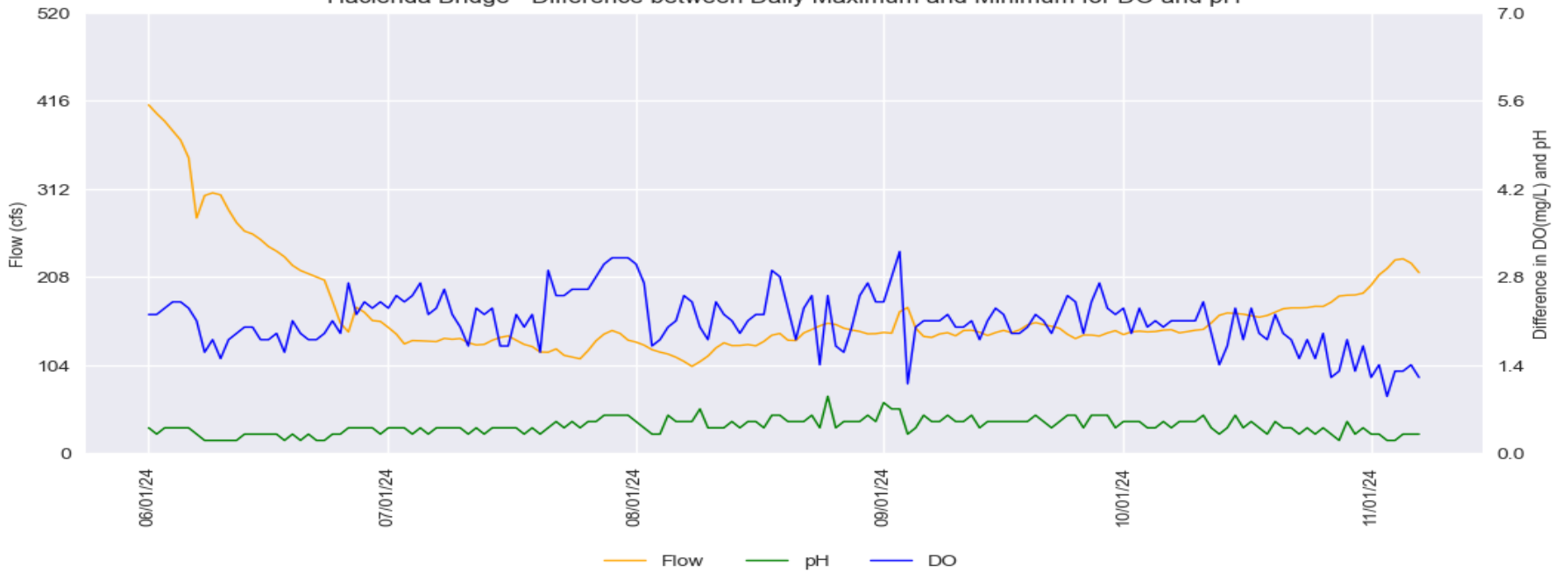


**Hacienda Bridge**

Hacienda Bridge Water Quality Trend



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

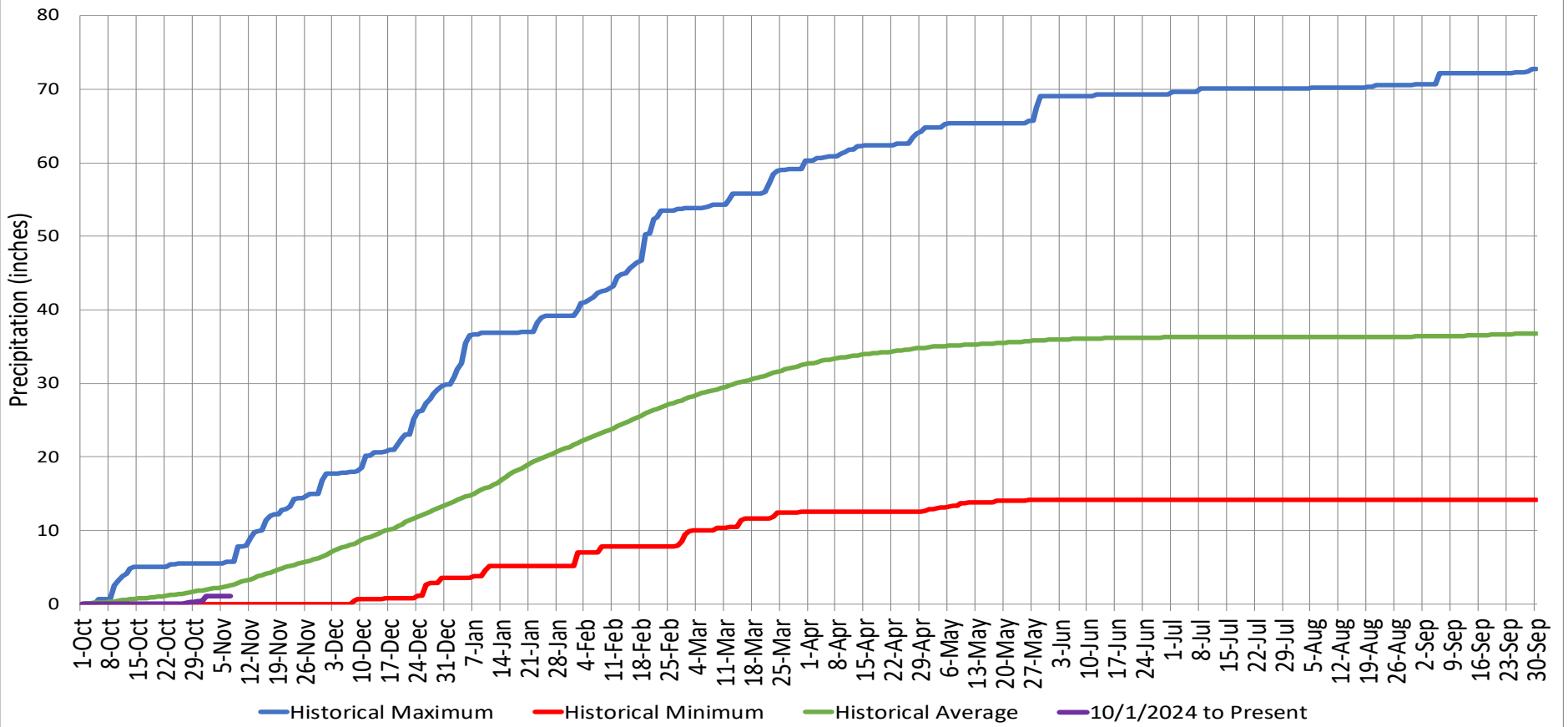


# Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

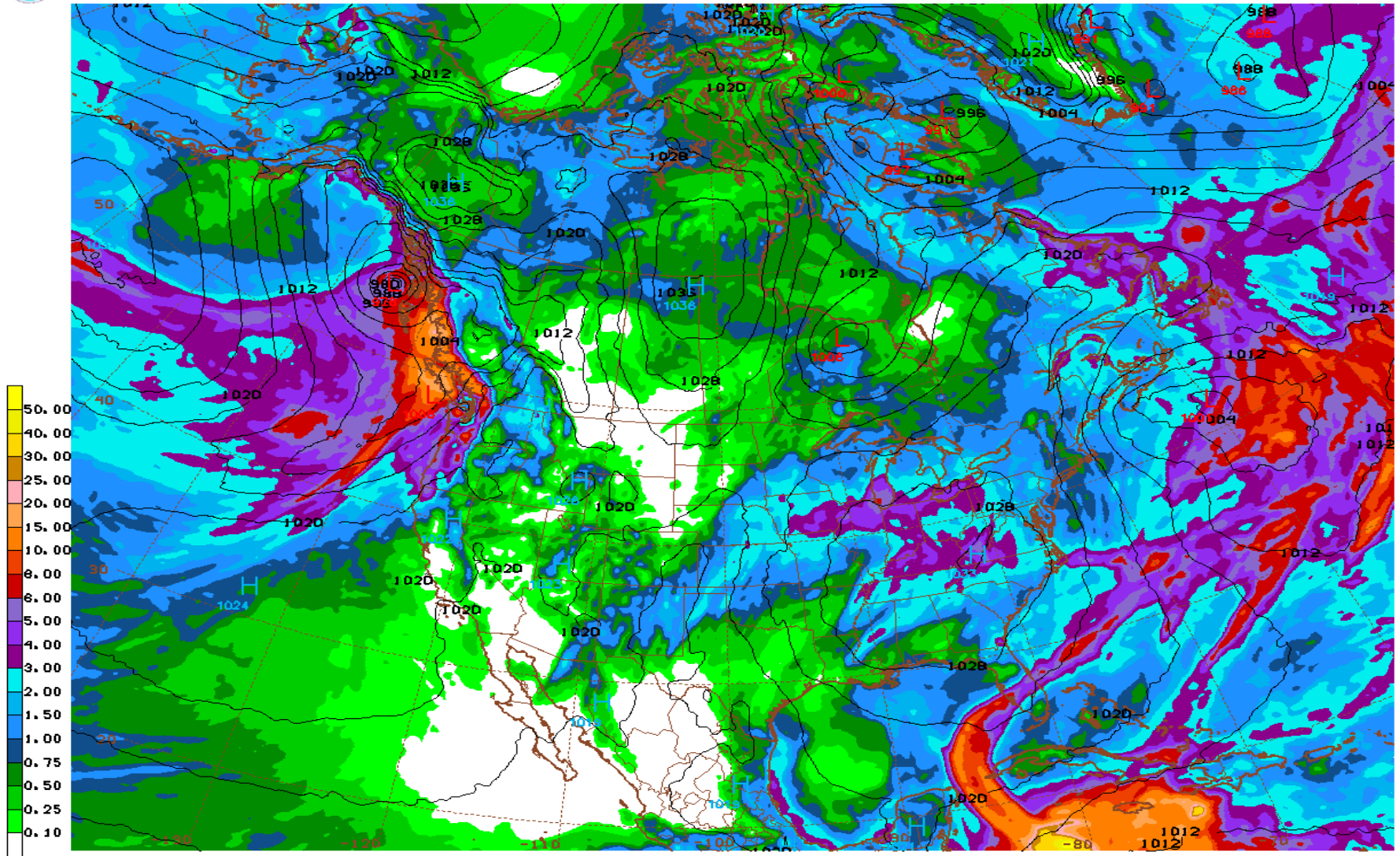
Date Range	Cumulative (inches)
Oct 1, 2024 - Nov 7, 2024	<b>1.13</b>
Last 7 Days*	<b>0.77</b>

Cumulative Precipitation Comparison of Current Year versus Historic Record



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

GFS 11/12/24 12UTC 384HR FCST VALID THU 11/28/24 12UTC NOAA/NWS/NCEP



GFS THU 241128/1200V384 ENSL (4MB) 384HR ACCUMULATED PRECIP (IN)

Date Range  
Nov 12 - Nov 28, 2024

Forecasted Cumulative (inches)  
**0.36**