



State Water Resources Control Board
 Temporary Urgency Change Orders (12/27/2023 & 6/6/2024)
 Russian River Hydrologic & Water Quality Report
 July 5, 2024 - July 11, 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).

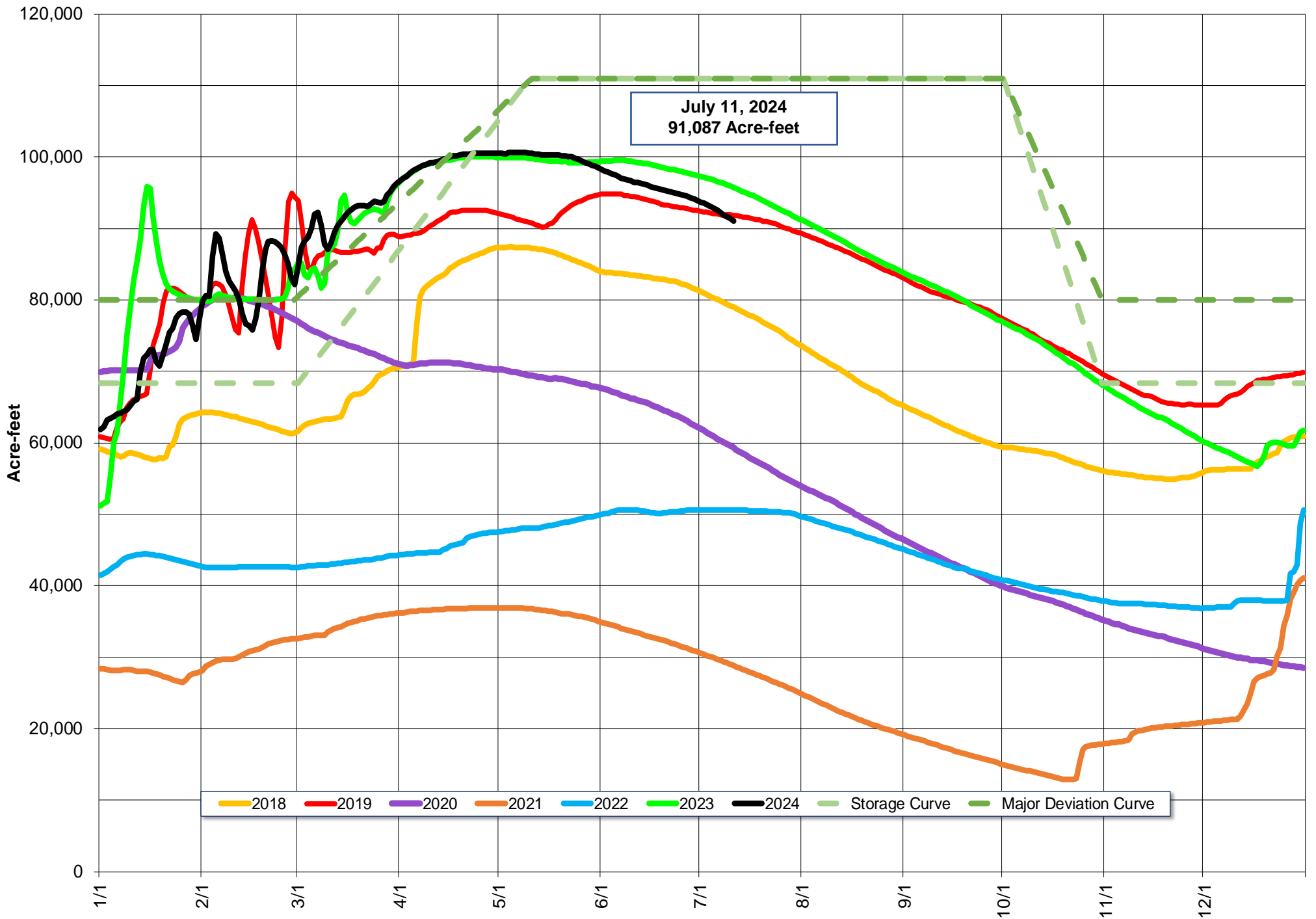
Instream Flow Requirements as of July 11, 2024

Basis	Reach	Instantaneous (cfs)	5-day Average (cfs)
Modified Per Order: Normal Condition	Upper Russian River	110	125
D-1610: Normal Condition	Dry Creek	80	-
Modified Per Order: Normal Condition	Lower Russian River	60	70

Upper and Lower Russian River are based on criteria as established in the Order issued 6/6/2024.

Lake Mendocino

Lake Mendocino Storage 2018 - 2024 and Storage Curve



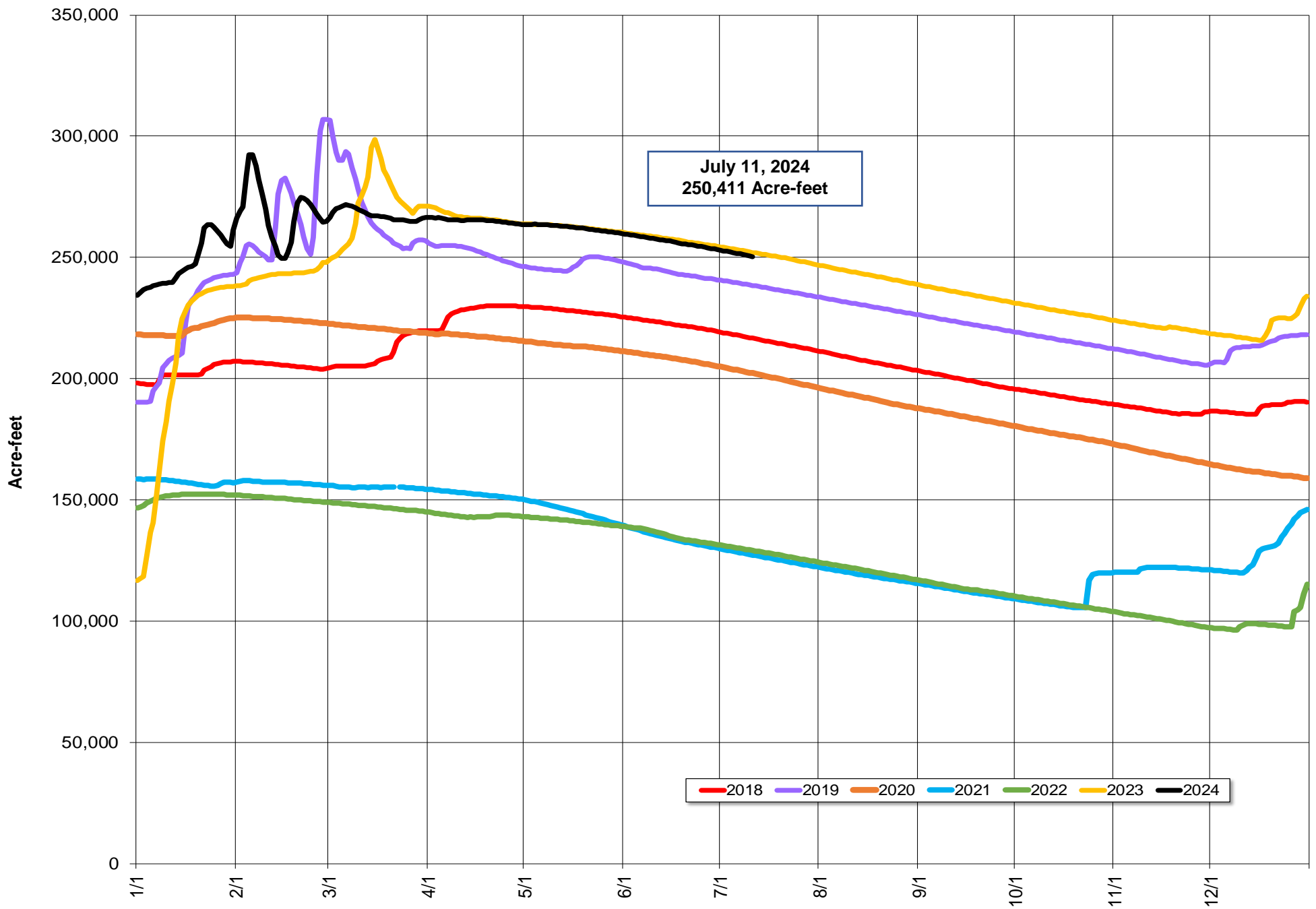
Storage (acre-feet)	July 11, 2024	91,087	
Change in Storage (acre-feet)	Last 30 days	-5,409	-180
	Last 7 days	-1,692	-242
Daily Inflow (cfs)	Last 7 days	Min	29
		Max	74
		Mean	53
Release (cfs)	Last 7 days	Min	160
		Max	177
		Mean	174

Lake Sonoma



Todd Schram, February 10, 2024

Lake Sonoma Storage 2018-2024



Storage (acre-feet)	July 11, 2024	250,411	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	-7,272	-242
	Last 7 days	-1,771	-253
Daily Inflow (cfs)	Last 7 days	Min	0
		Max	25
		Mean	7
Release (cfs)	Last 7 days	Min	109
		Max	111
		Mean	110

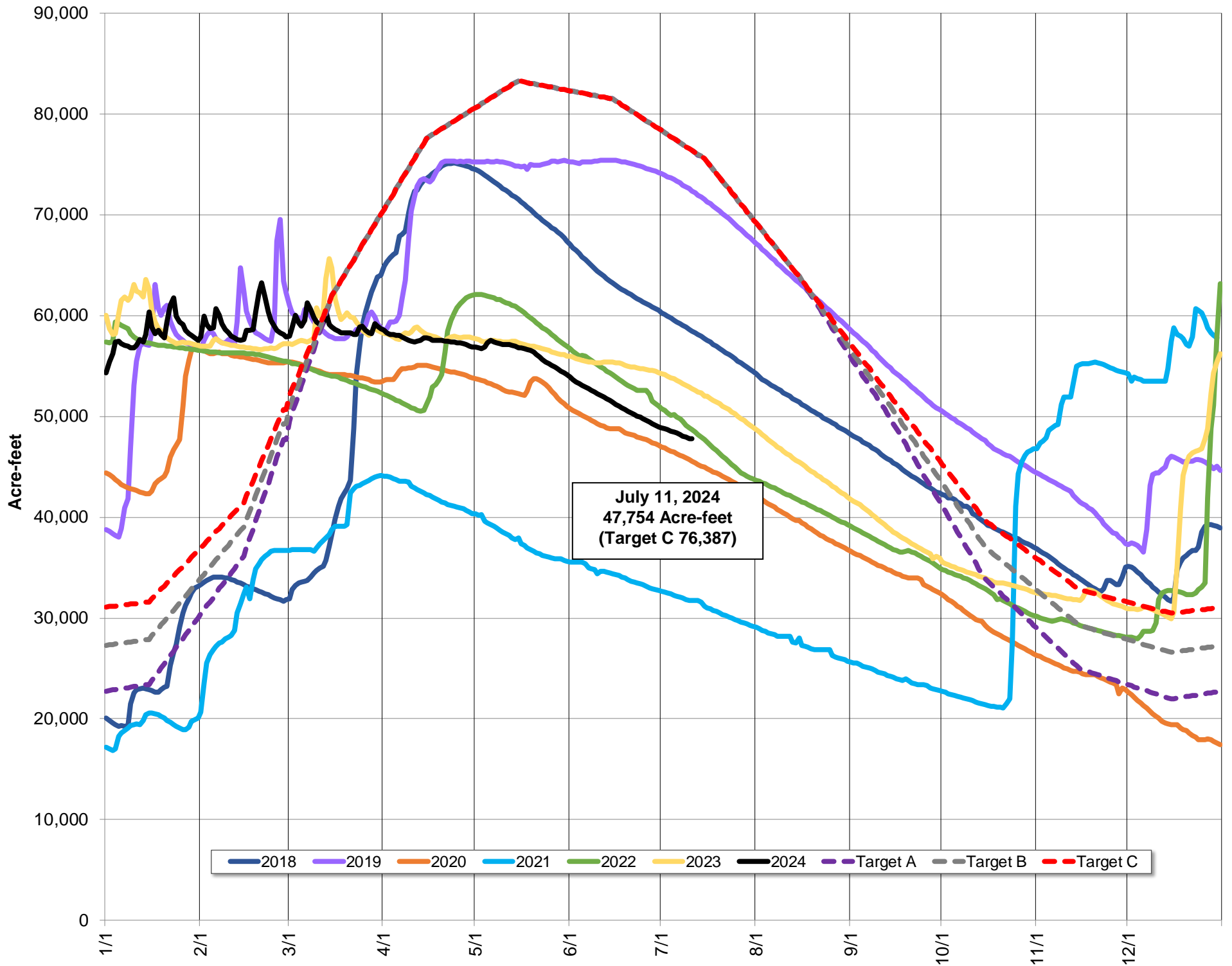
Potter Valley Project

PVP Diversion (cfs)	July 11, 2024	60
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2023 - July 11, 2024	485,889	1,705
	Last 7 days	354	51

*Inflow calculation based on criteria established in D1610

Lake Pillsbury Storage 2018 - 2024 and Target Storage Scenarios

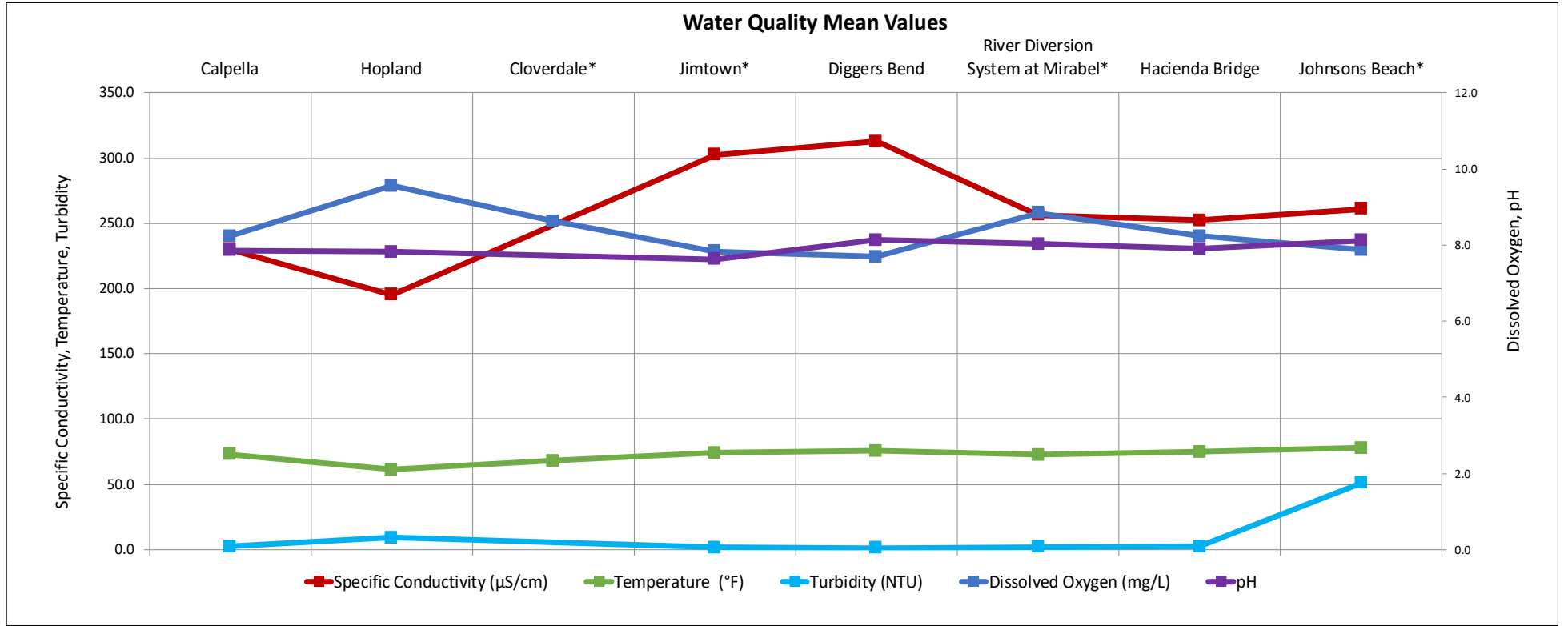


July 11, 2024
47,754 Acre-feet
(Target C 76,387)

Russian River Flows (July 5, 2024 - July 11, 2024)

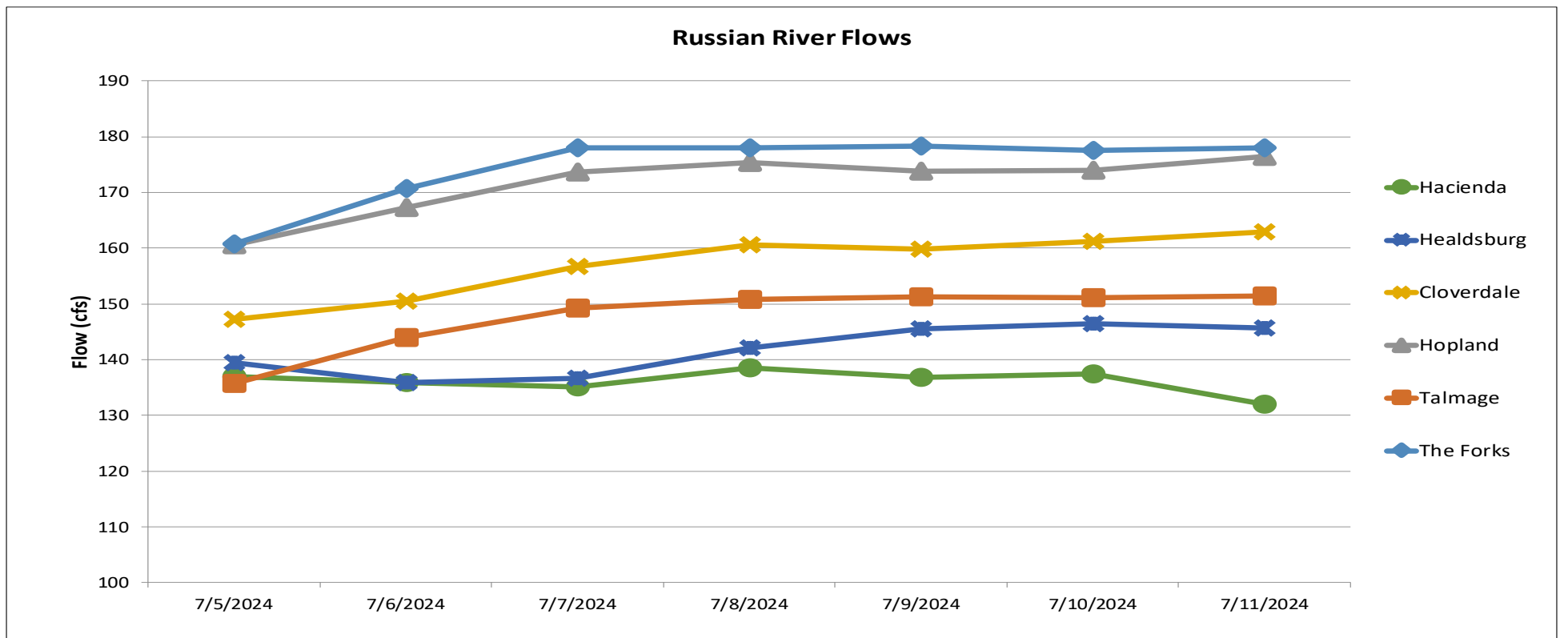
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	68.4	59.2	64.8	69.6	71.2	71.0	70.5	75.0
	Max	77.0	63.7	72.3	79.0	80.6	74.9	79.2	80.7
	Mean	73.0	61.0	68.0	73.9	75.7	72.7	74.6	77.7
Specific Conductivity (µS/cm)	Min	223.0	192.0		294.0	304.0	253	249.0	139.7
	Max	244.0	201.0		311.0	318.0	261	260.0	287.5
	Mean	230.0	195.5		302.6	312.8	256	252.4	261.0
Dissolved Oxygen (mg/L)	Min	7.6	8.5	7.7	6.2	6.3	8.0	6.4	3.6
	Max	9.2	11.0	10.5	10.1	9.4	10.1	9.4	9.3
	Mean	8.2	9.6	8.6	7.8	7.7	8.8	8.2	7.9
Dissolved Oxygen (% Saturation)	Min	88.3	85.4	83.4	70.9	73.0	90.5	74.9	43.5
	Max	110.5	113.9	118.7	123.3	116.5	115.9	113.8	115.2
	Mean	95.6	97.2	95.0	92.1	92.1	101.8	97.4	97.8
pH	Min	7.7	7.6		7.4	7.8	7.9	7.6	7.8
	Max	8.1	8.2		7.9	8.4	8.3	8.1	8.4
	Mean	7.9	7.8		7.6	8.1	8.0	7.9	8.1
Turbidity (NTU)	Min	0.8	8.0		0.6	0.5	1.1	1.6	1
	Max	3.9	11.5		2.4	2.0	6.2	4.2	920
	Mean	2.3	9.1		1.5	1.1	1.8	2.4	51

*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	Jul 5, 2024	Jul 6, 2024	Jul 7, 2024	Jul 8, 2024	Jul 9, 2024	Jul 10, 2024	Jul 11, 2024
The Forks*	161	171	178	178	178	178	178
Talmage USGS 11462080	136	144	149	151	151	151	151
Hopland USGS 11462500	161	167	174	175	174	174	176
Cloverdale USGS 11463000	147	150	157	161	160	161	163
Healdsburg USGS 11464000	140	136	137	142	146	146	146
Hacienda USGS 11467000	137	136	135	138	137	137	132

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

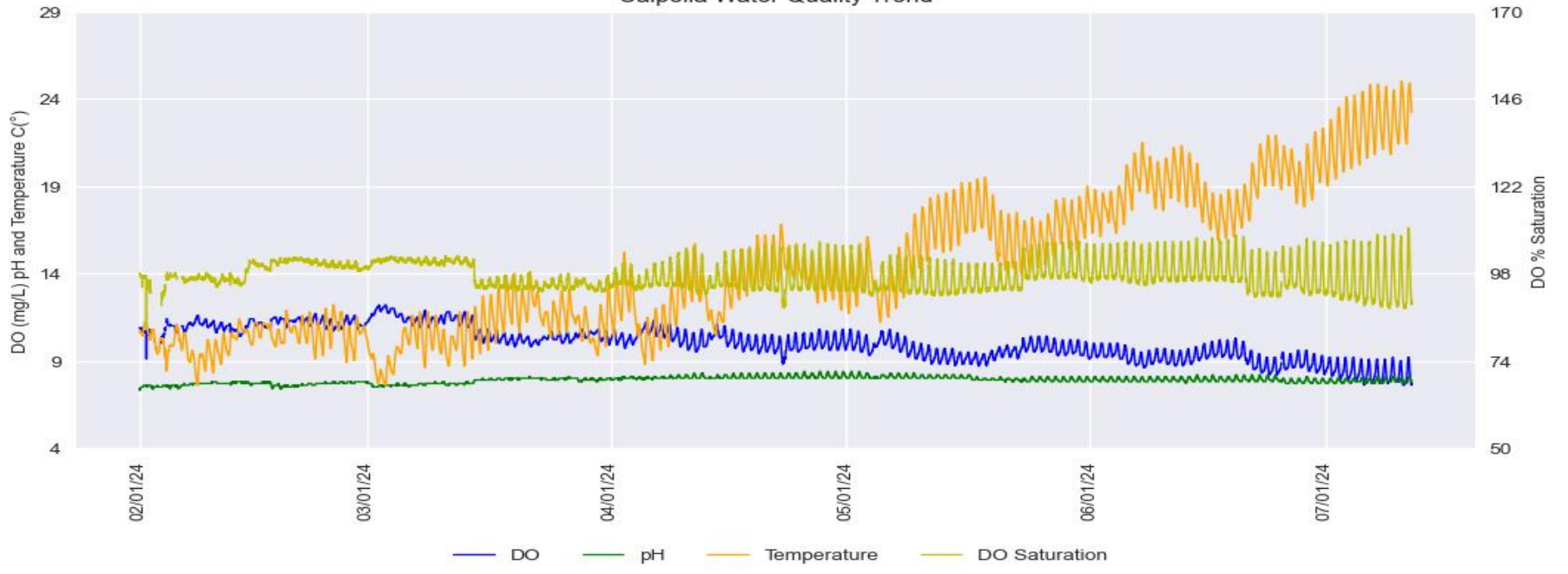


Russian River Water Quality February 1, 2024 – July 11, 2024

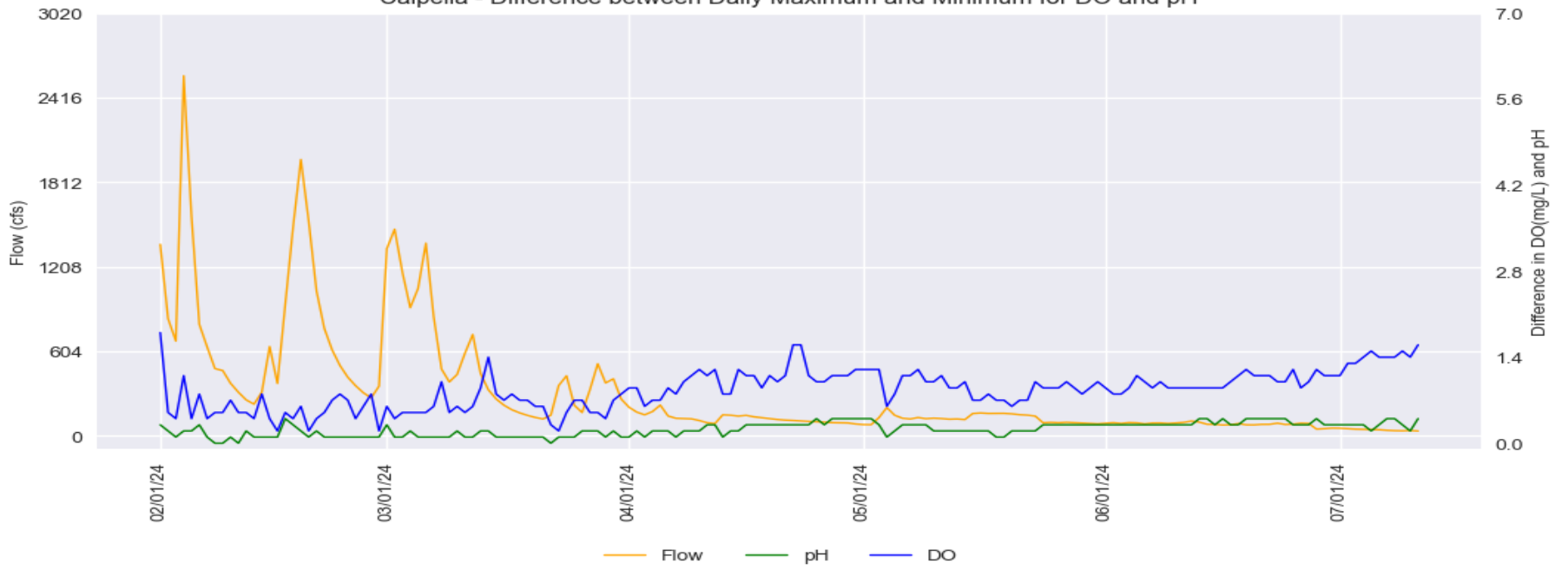
Provisional Data Subject to Revision

Calpella

Calpella Water Quality Trend

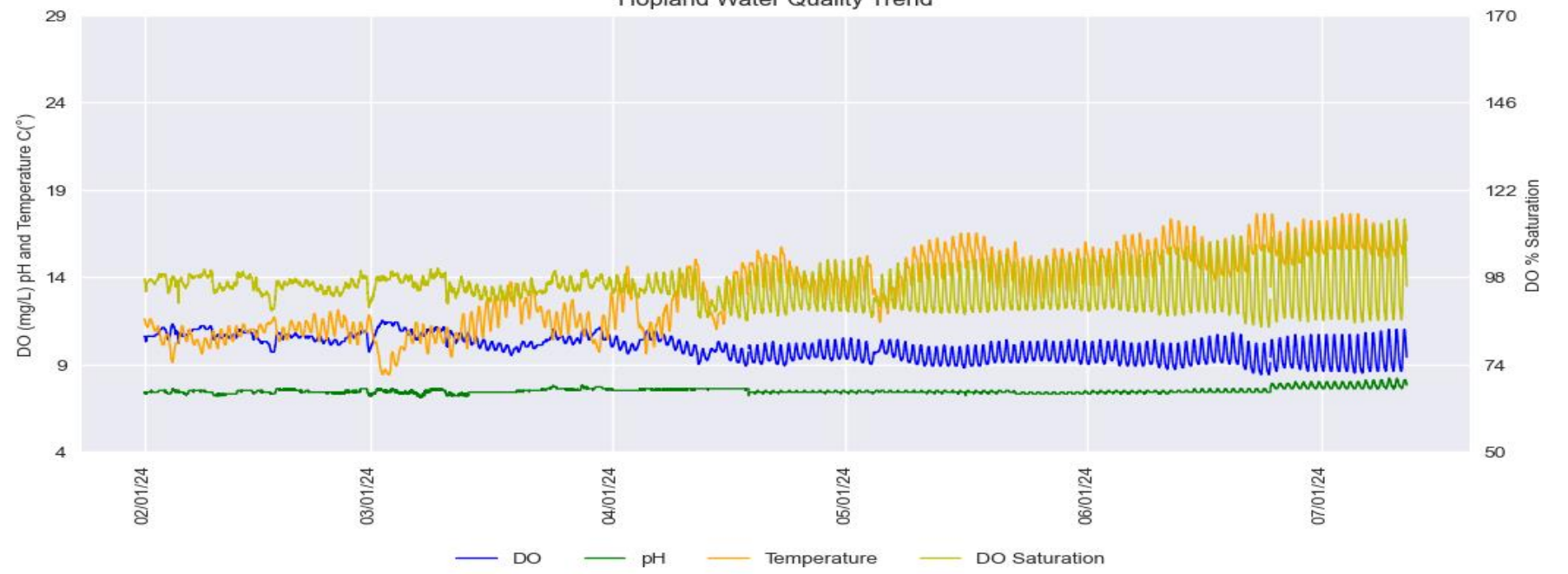


Calpella - Difference between Daily Maximum and Minimum for DO and pH

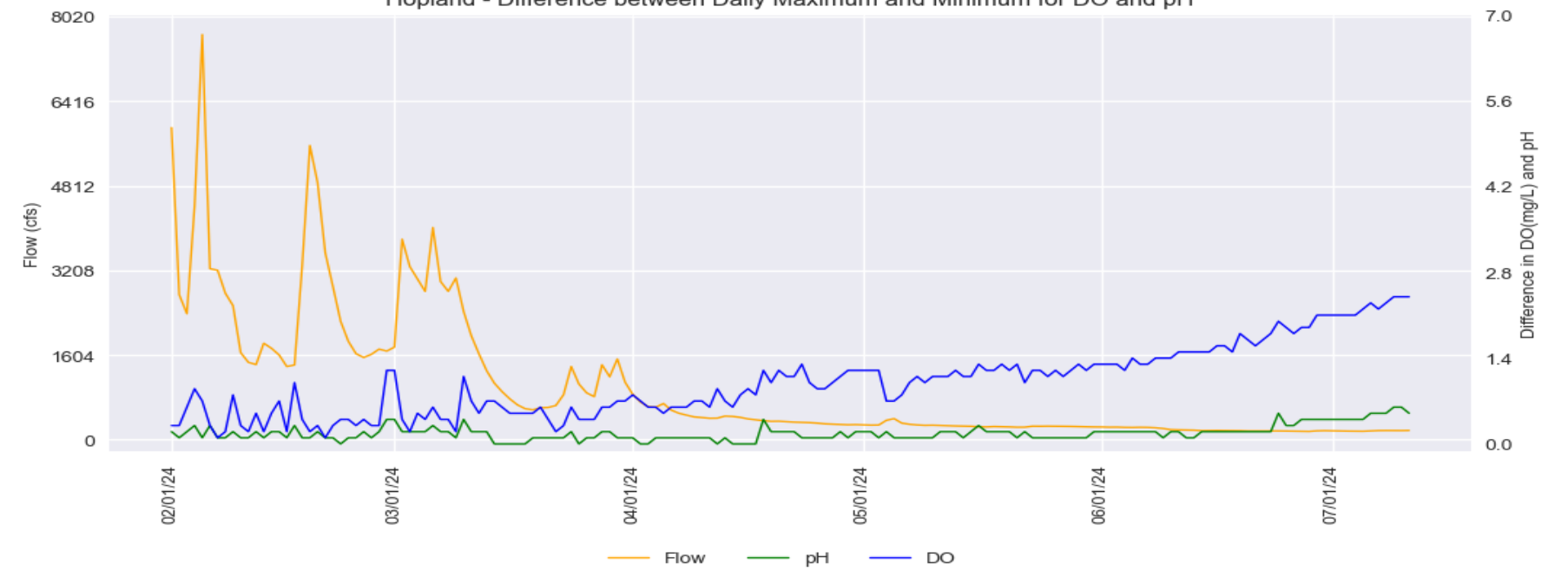


Hopland

Hopland Water Quality Trend



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

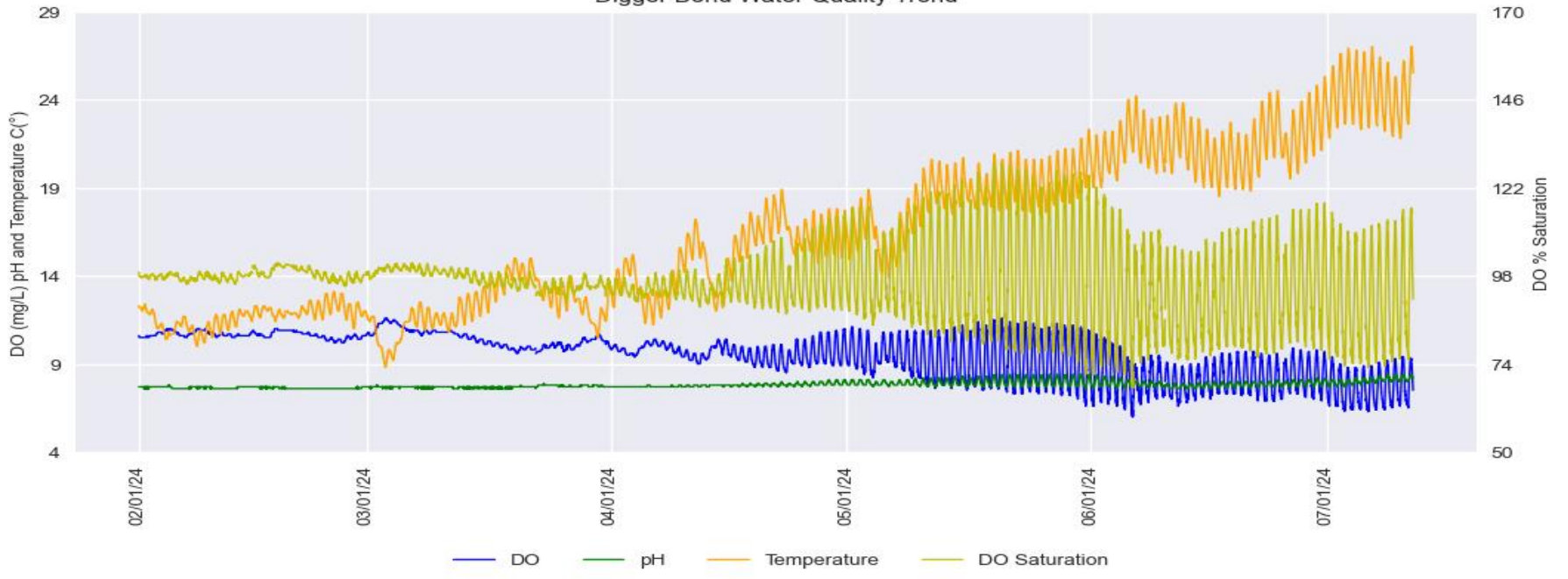


Russian River Water Quality February 1, 2024 – July 11, 2024

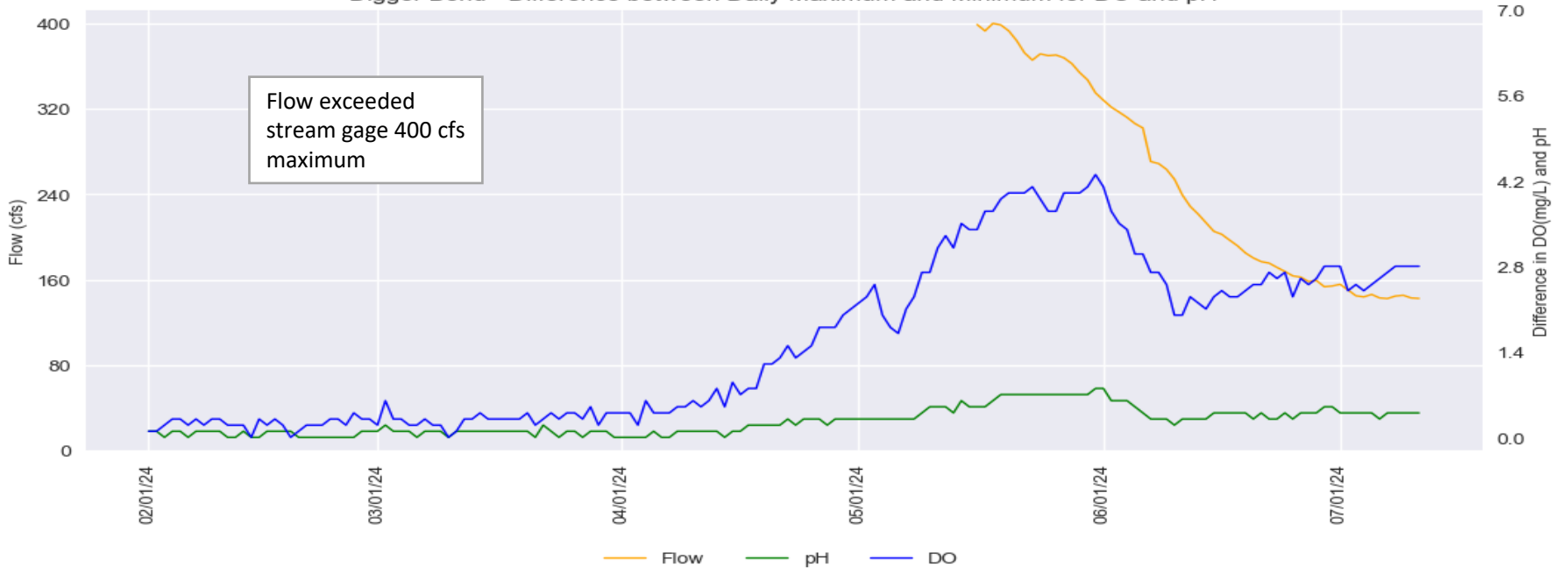
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Digger Bend

Digger Bend Water Quality Trend

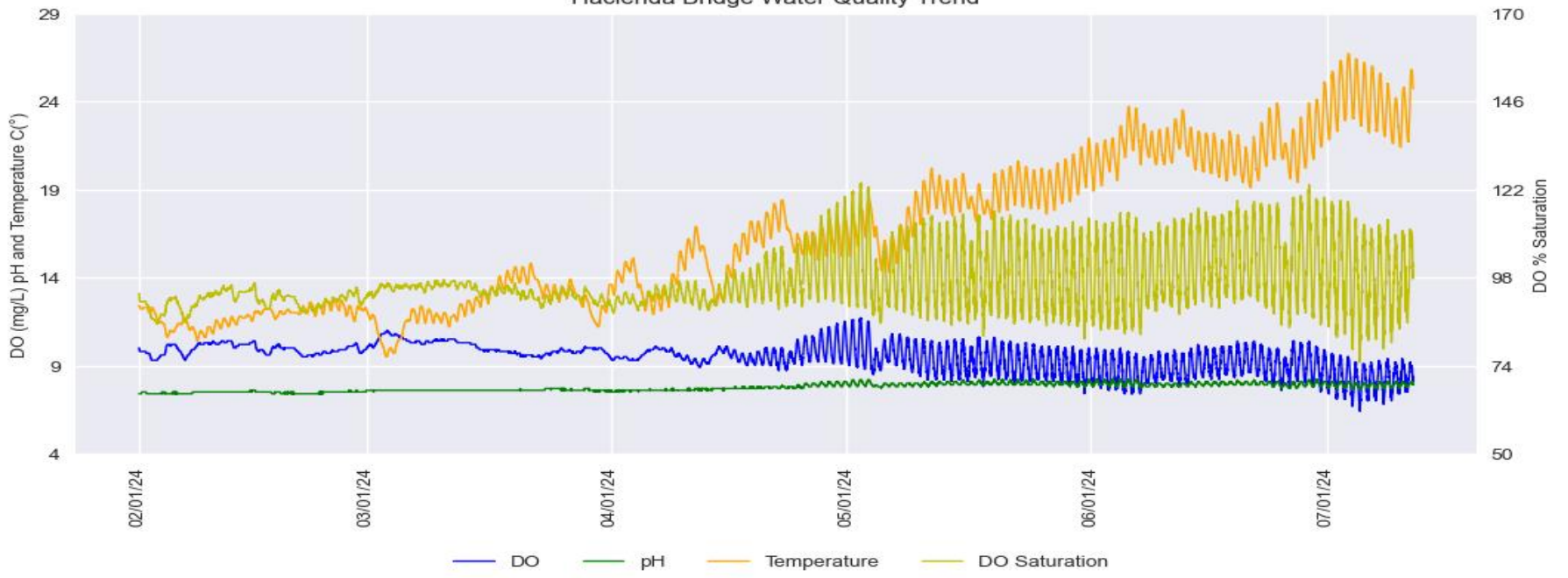


Digger Bend - Difference between Daily Maximum and Minimum for DO and pH

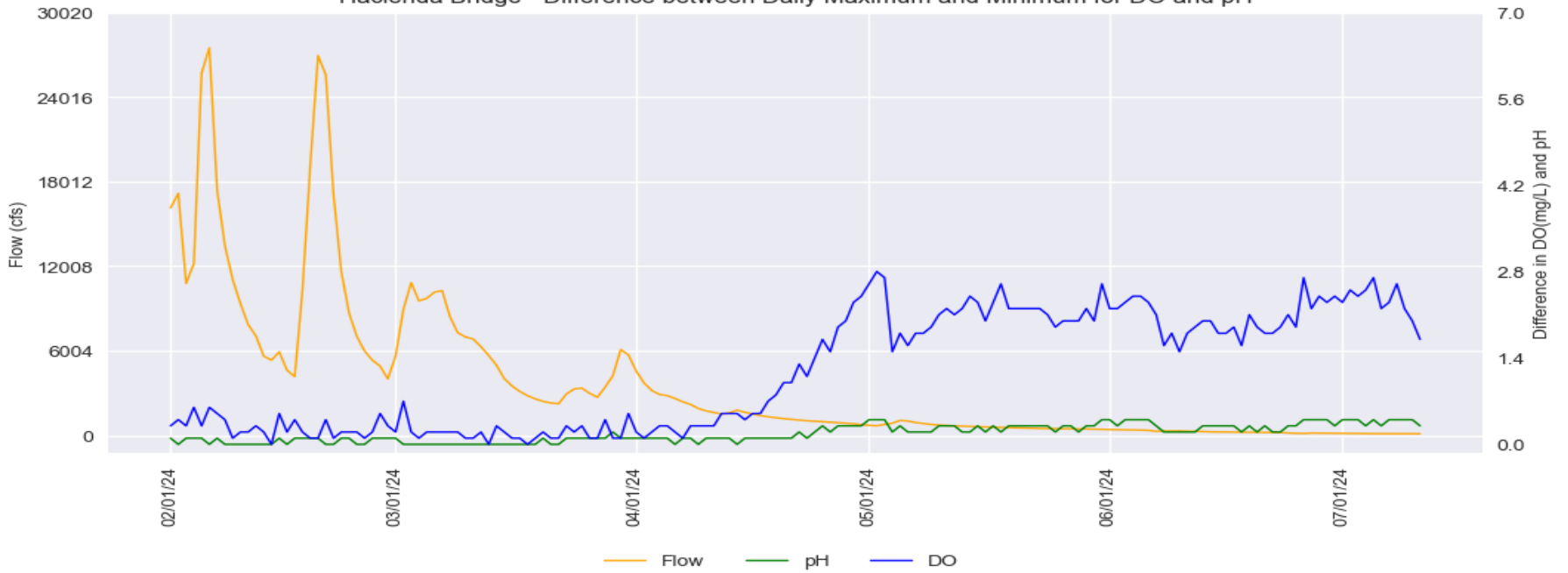


Hacienda Bridge

Hacienda Bridge Water Quality Trend



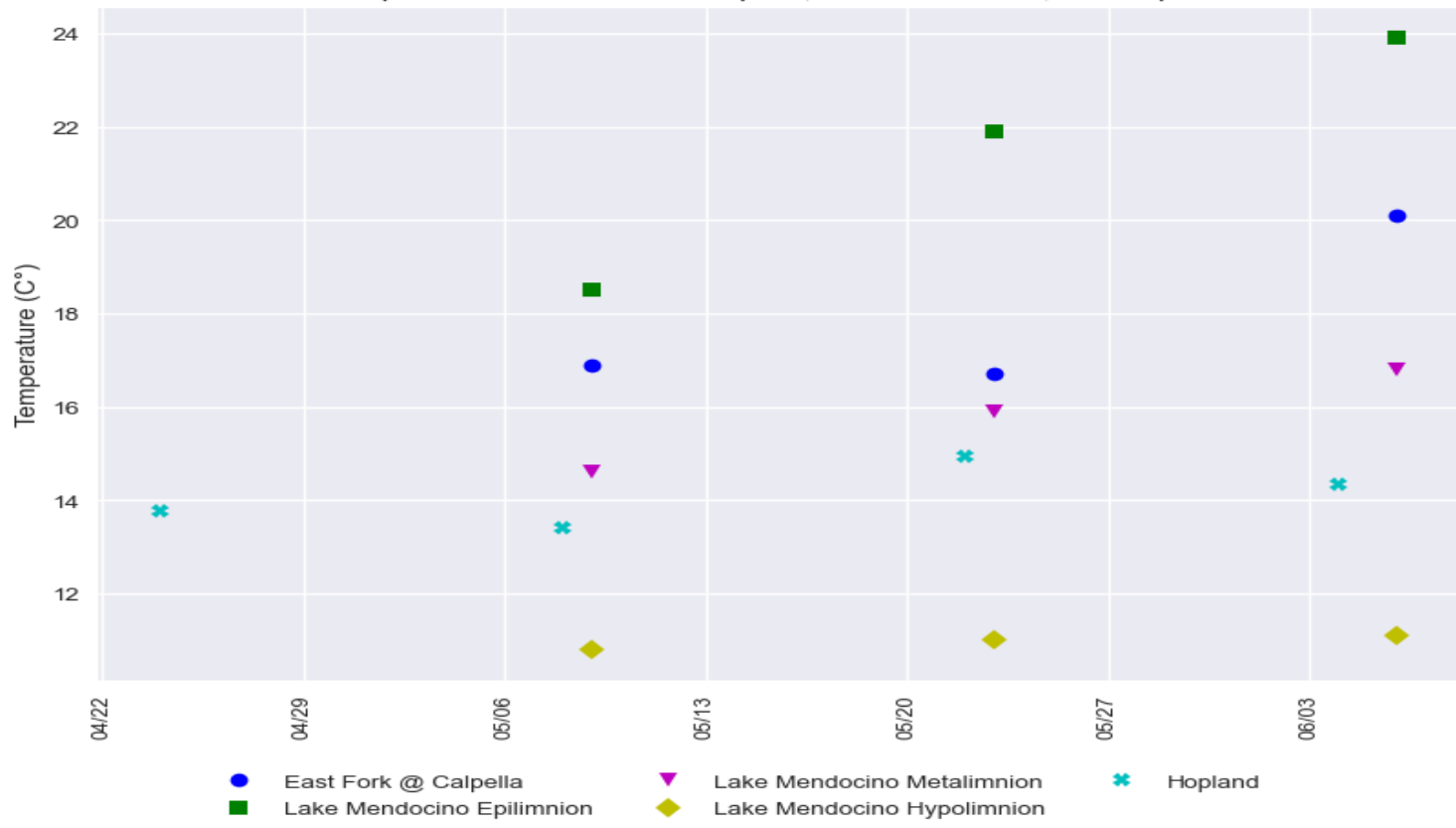
Hacienda Bridge - Difference between Daily Maximum and Minimum for DO and pH



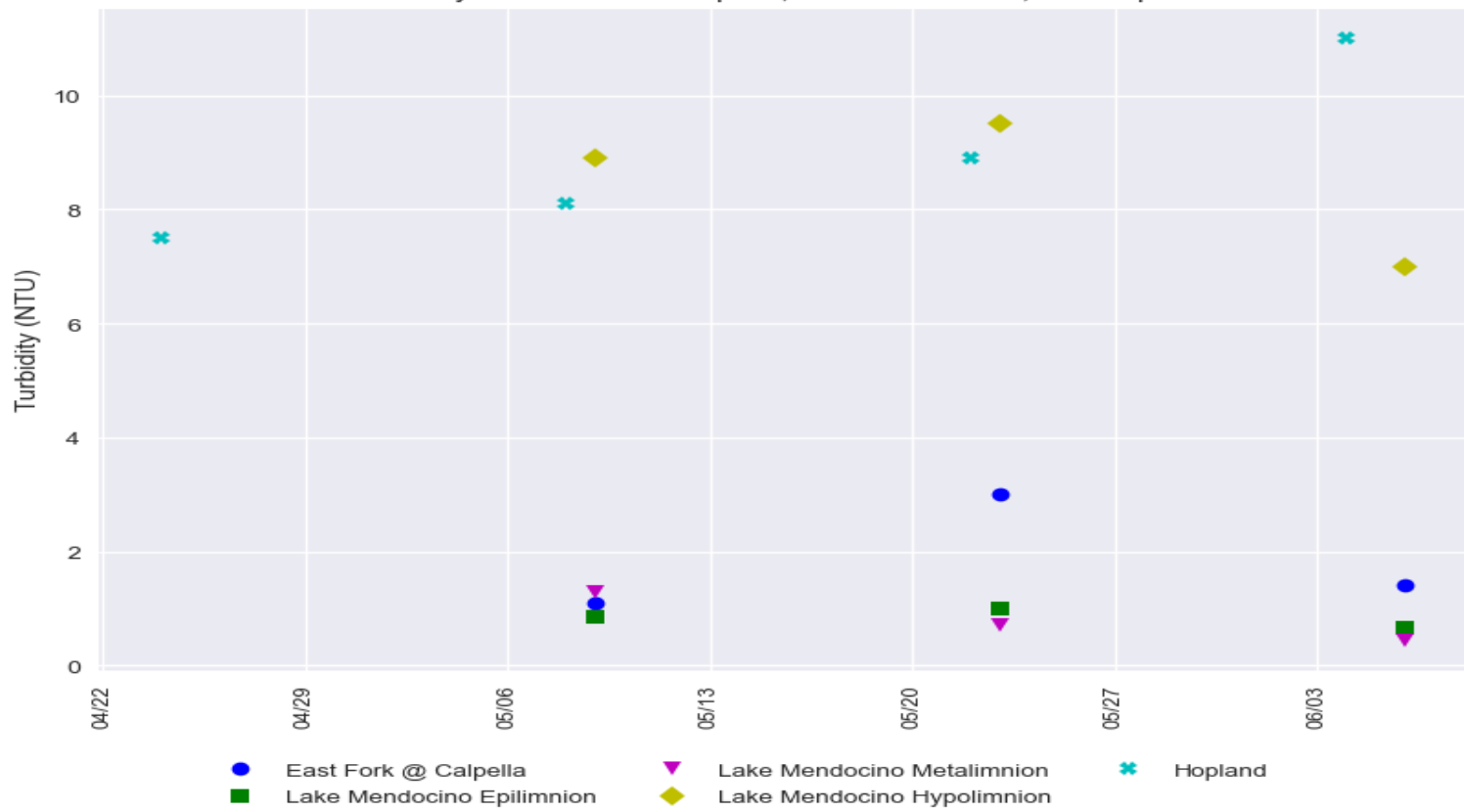
Russian River Water Quality Grab Samples

Provisional Data Subject to Revision

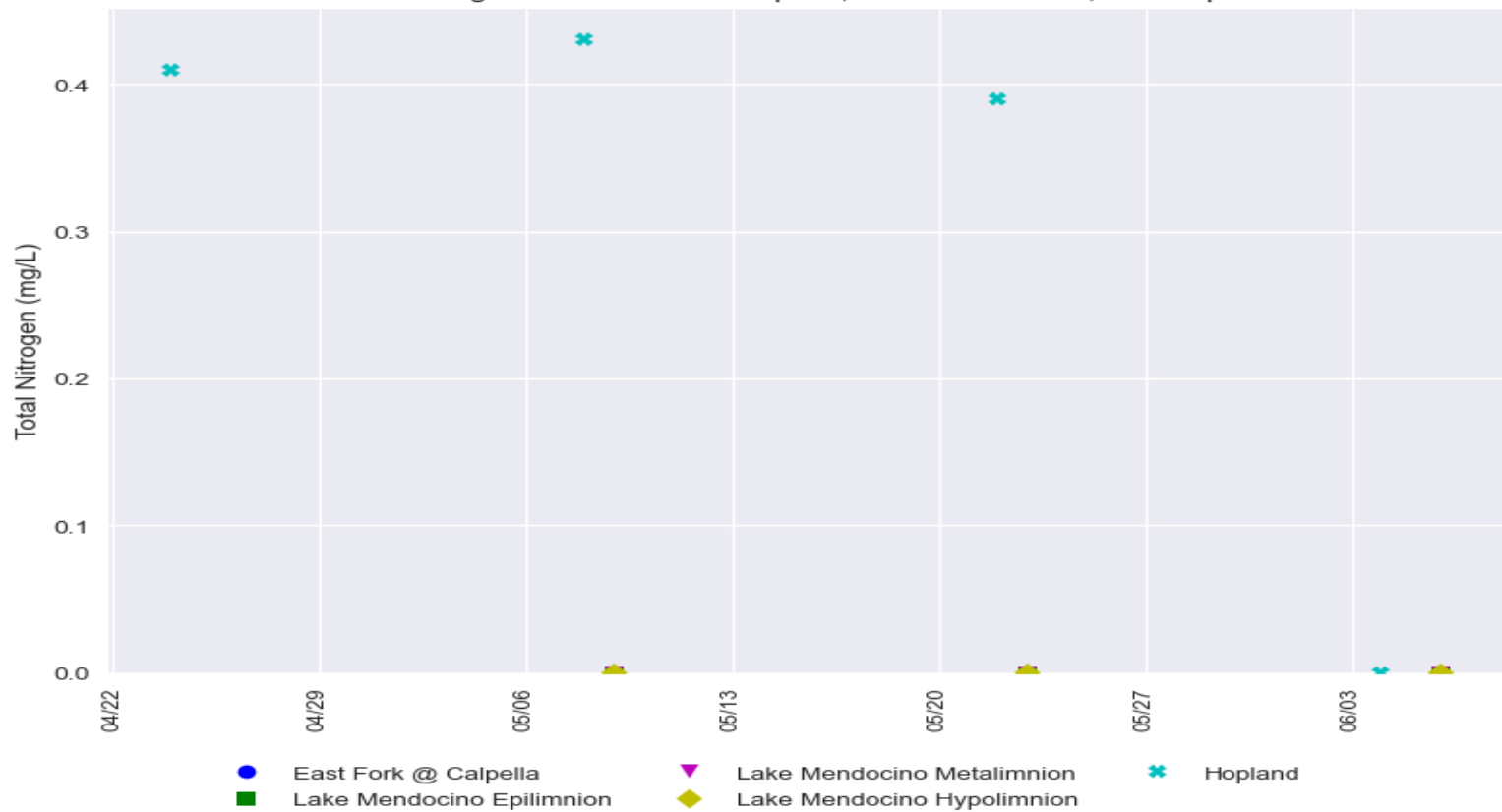
Temperature - East Fork at Calpella, Lake Mendocino, and Hopland



Turbidity - East Fork at Calpella, Lake Mendocino, and Hopland

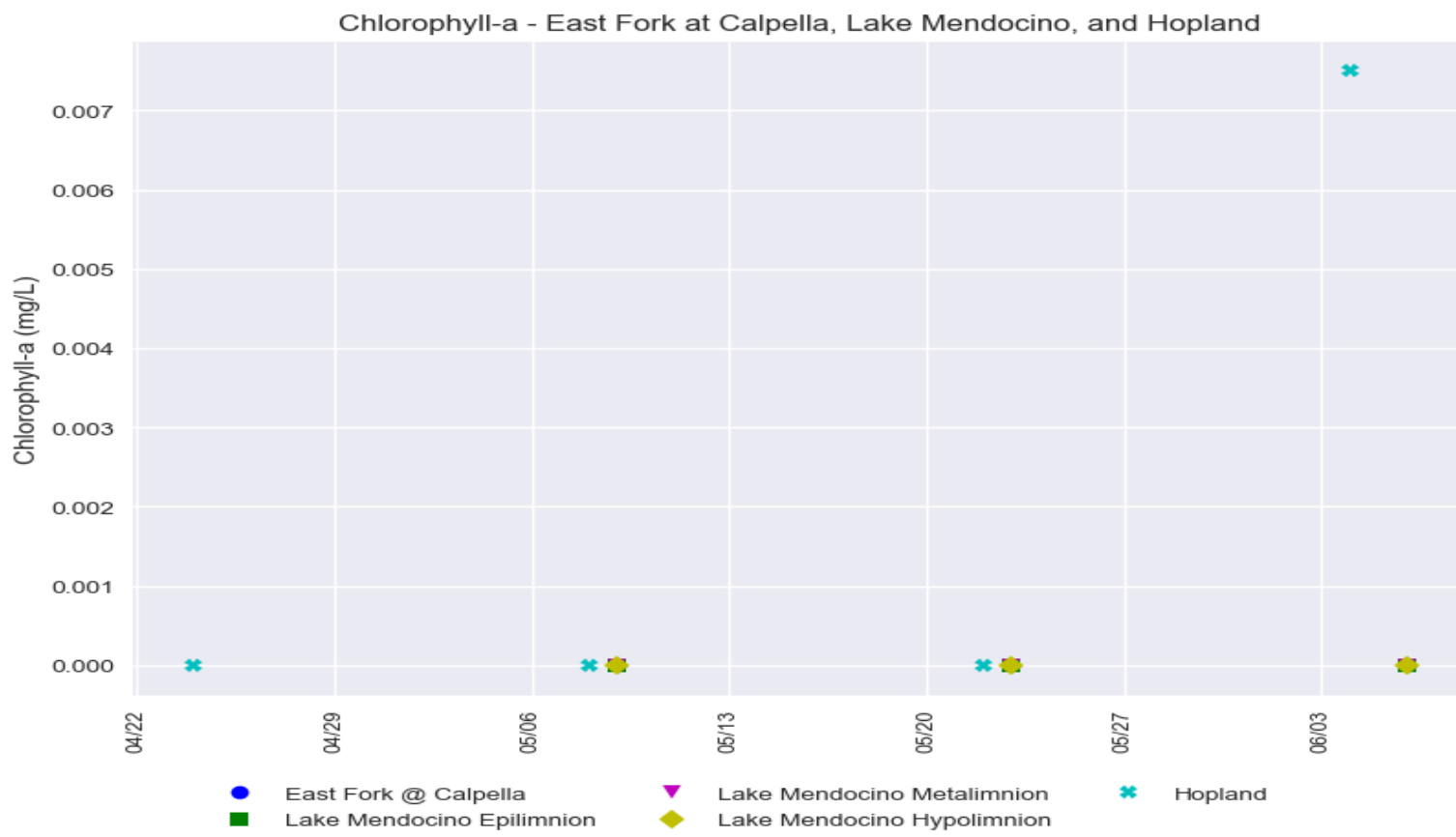
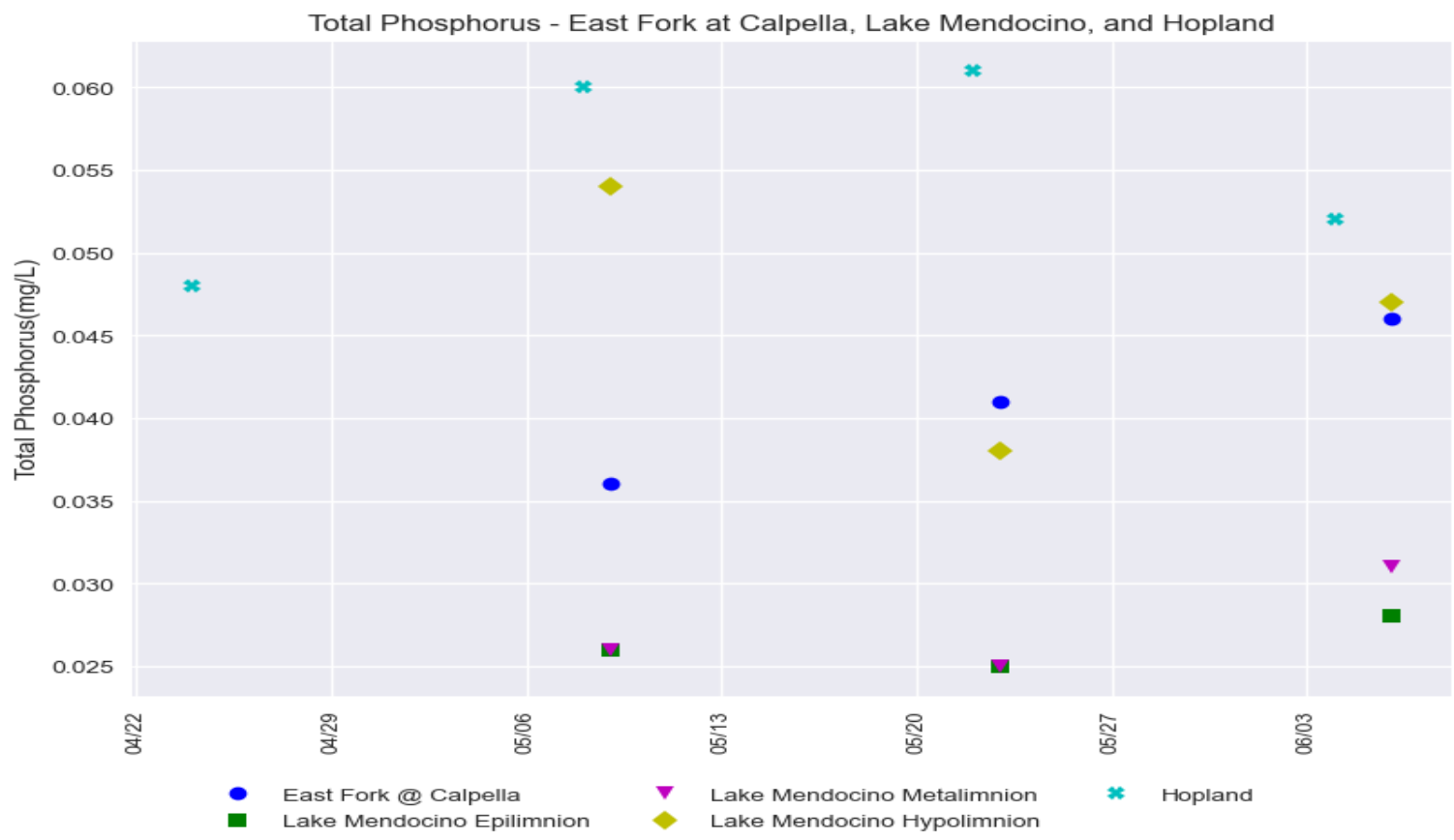


Total Nitrogen - East Fork at Calpella, Lake Mendocino, and Hopland



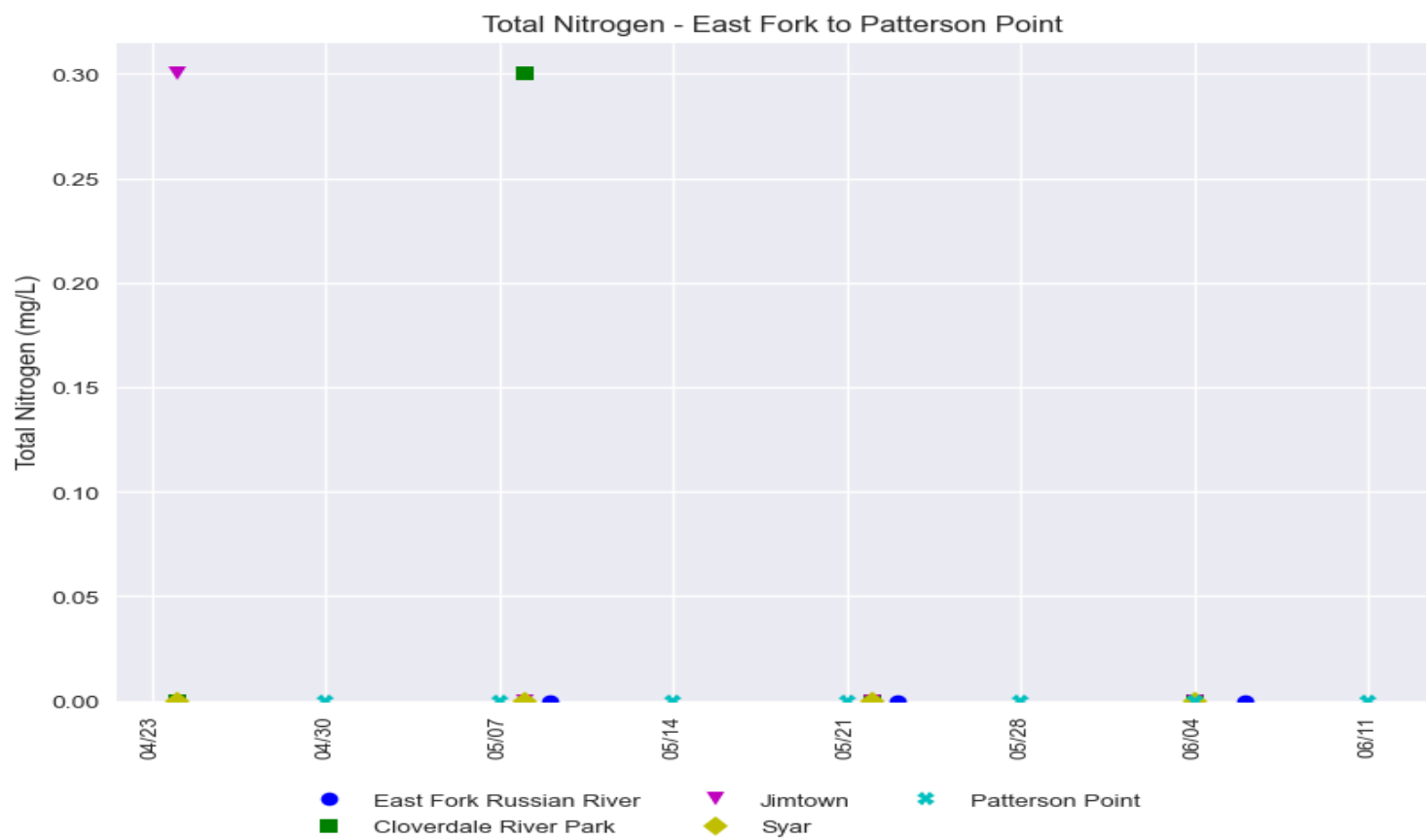
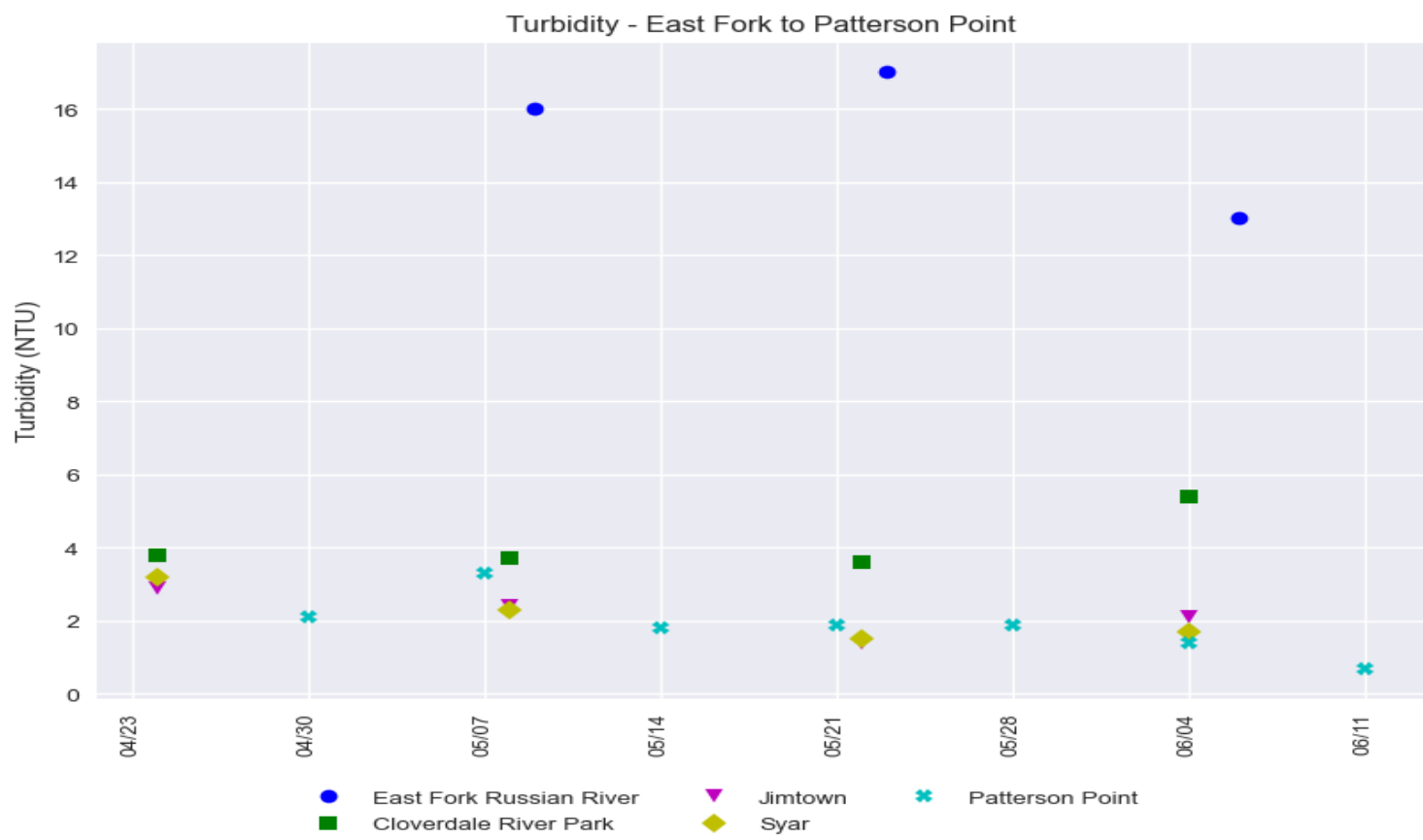
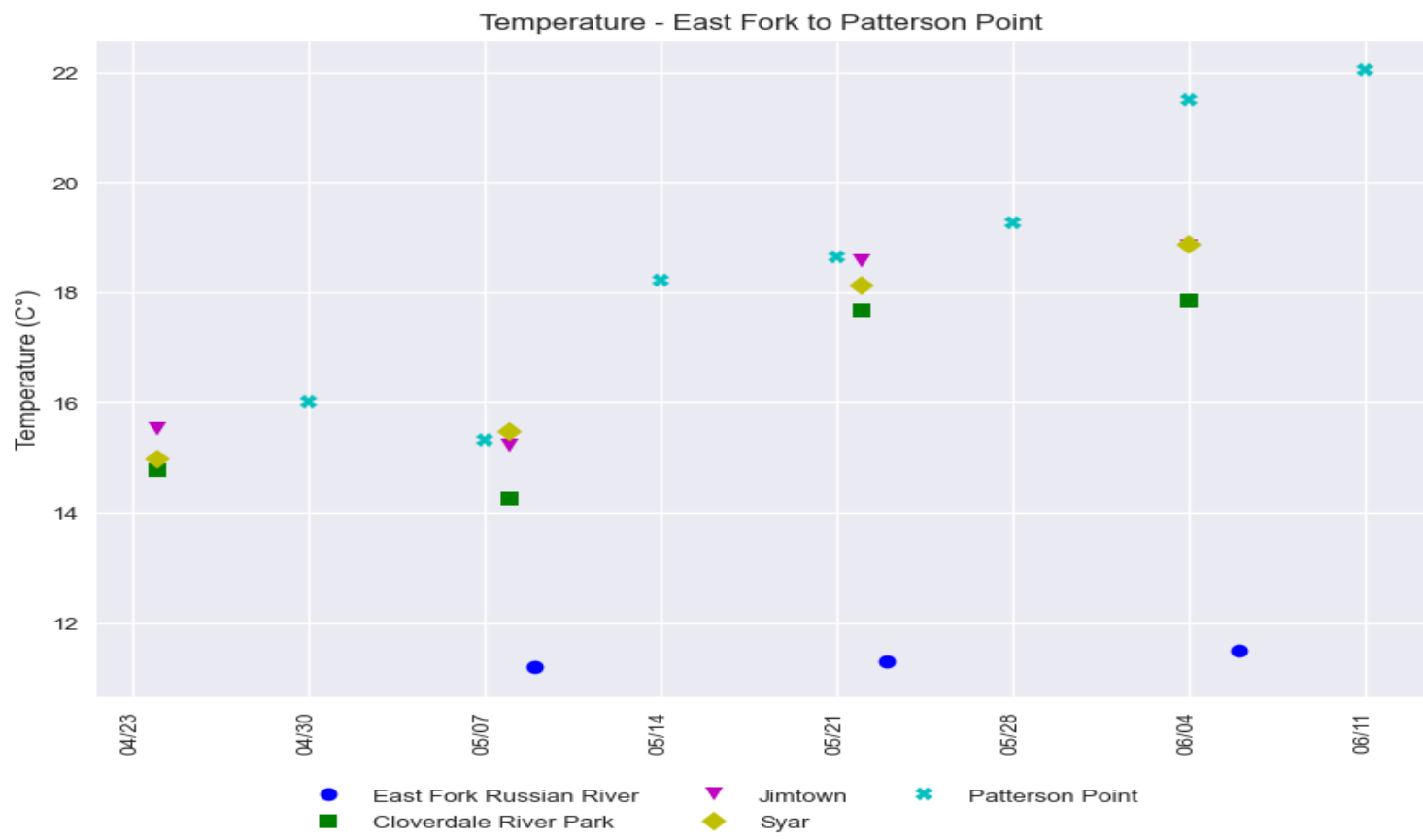
Russian River Water Quality Grab Samples

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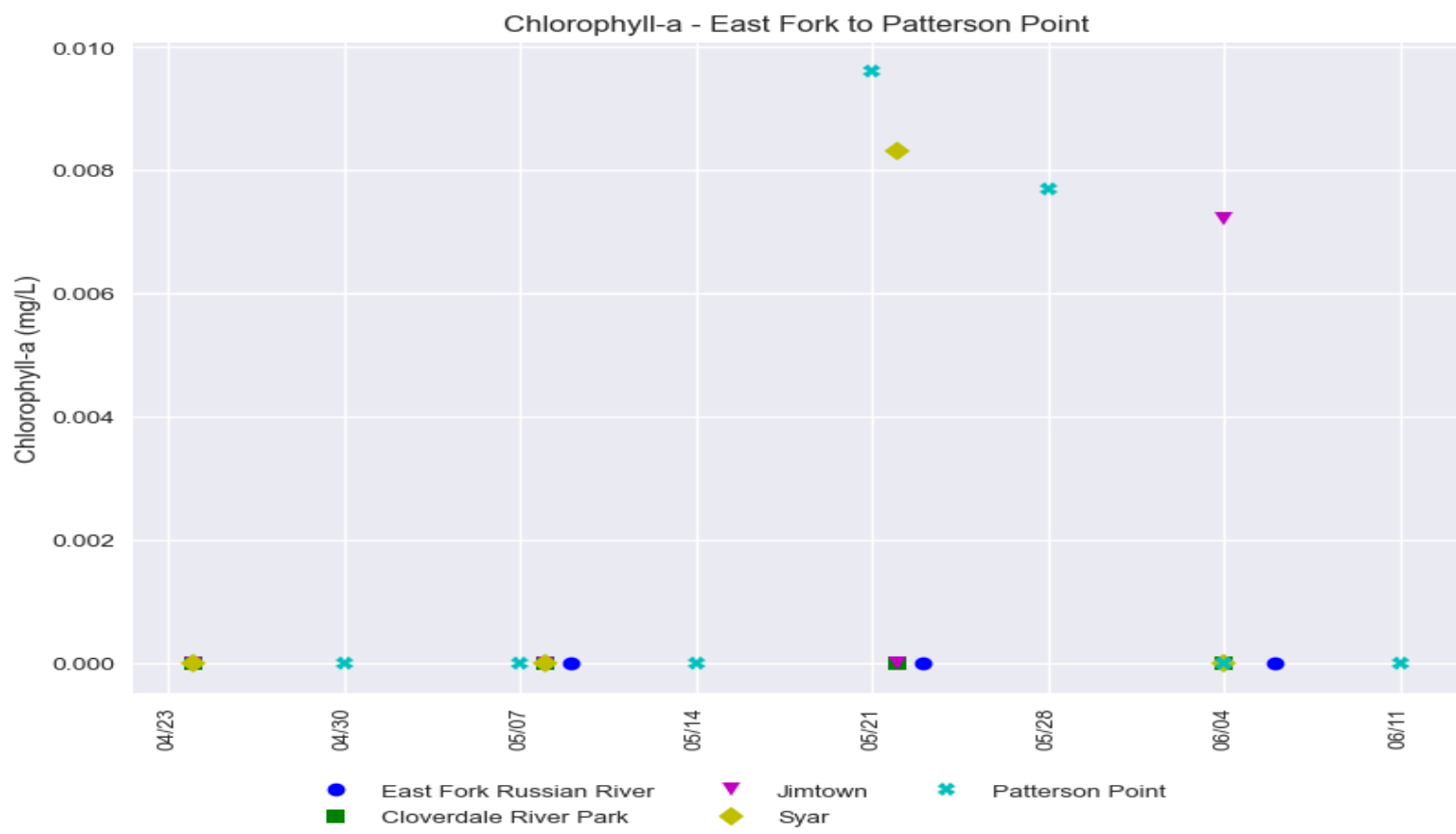
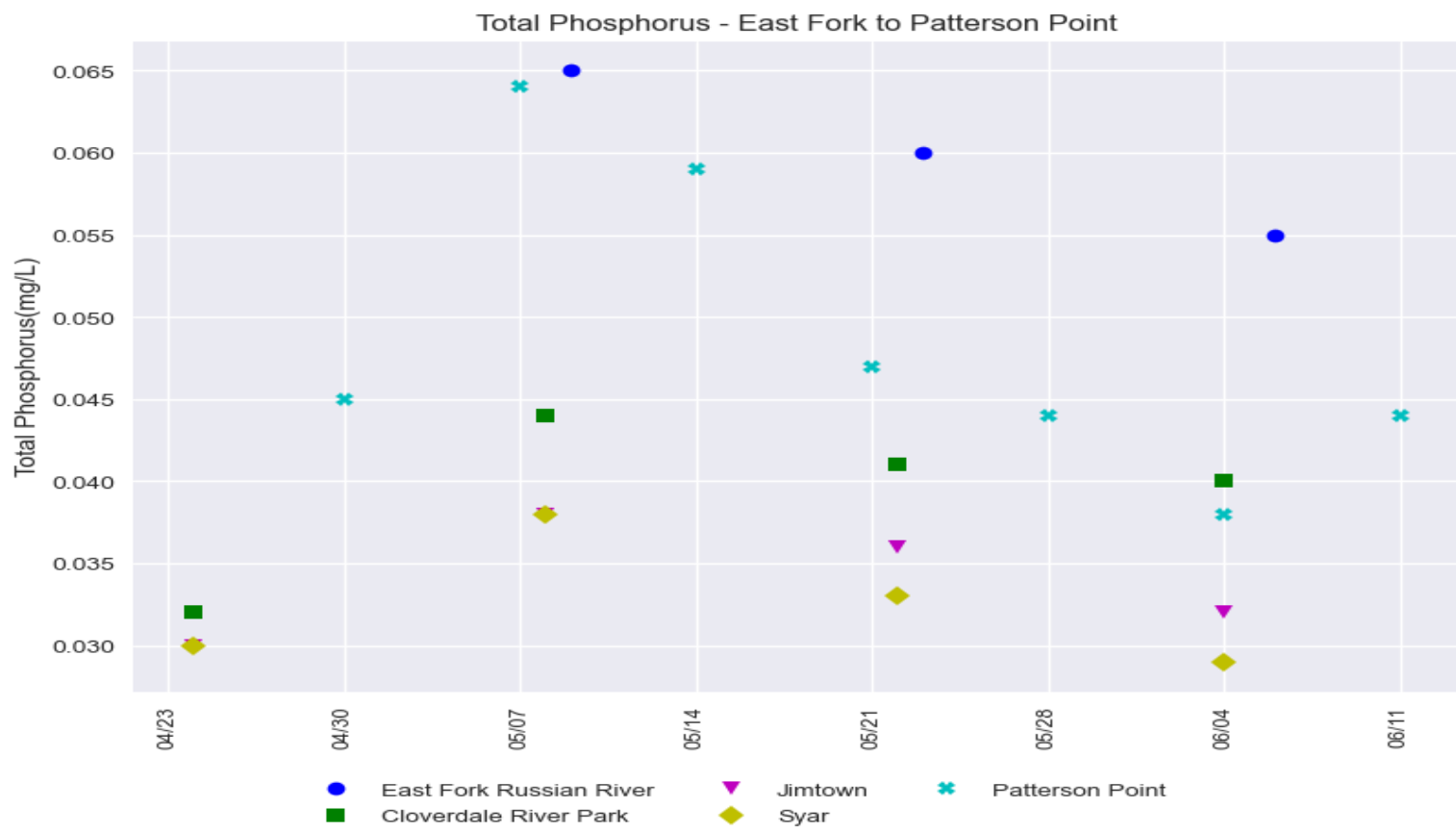
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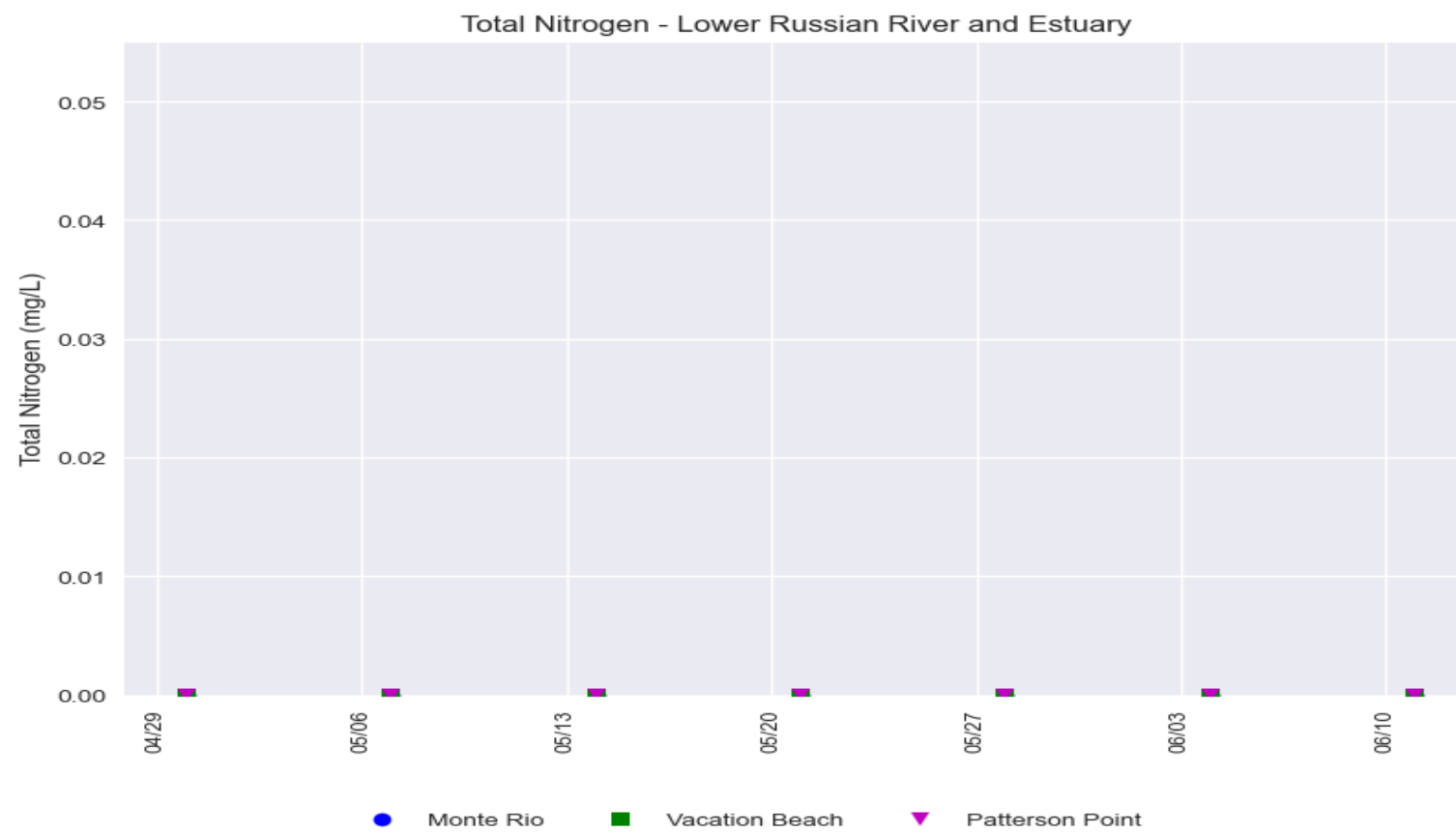
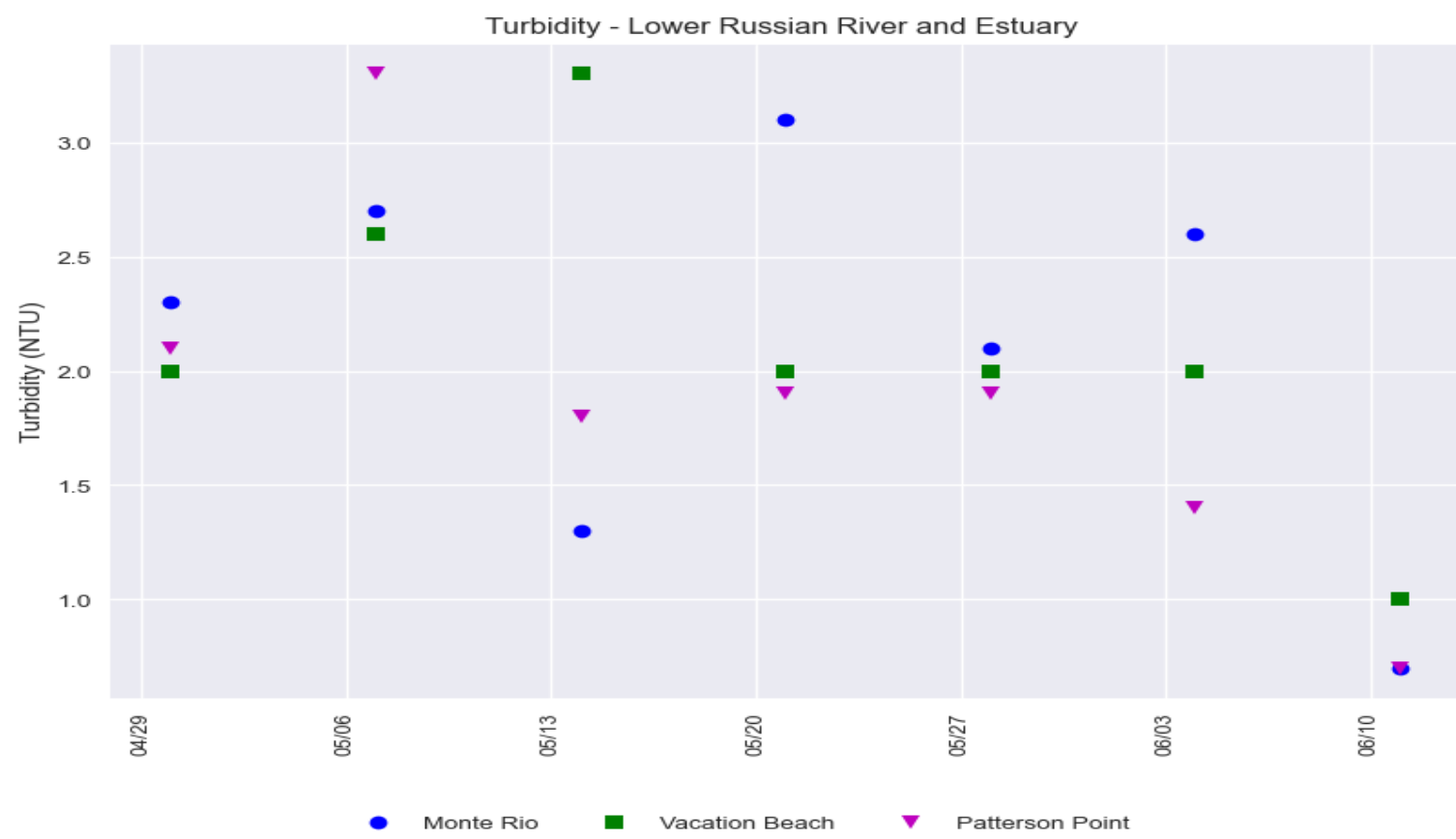
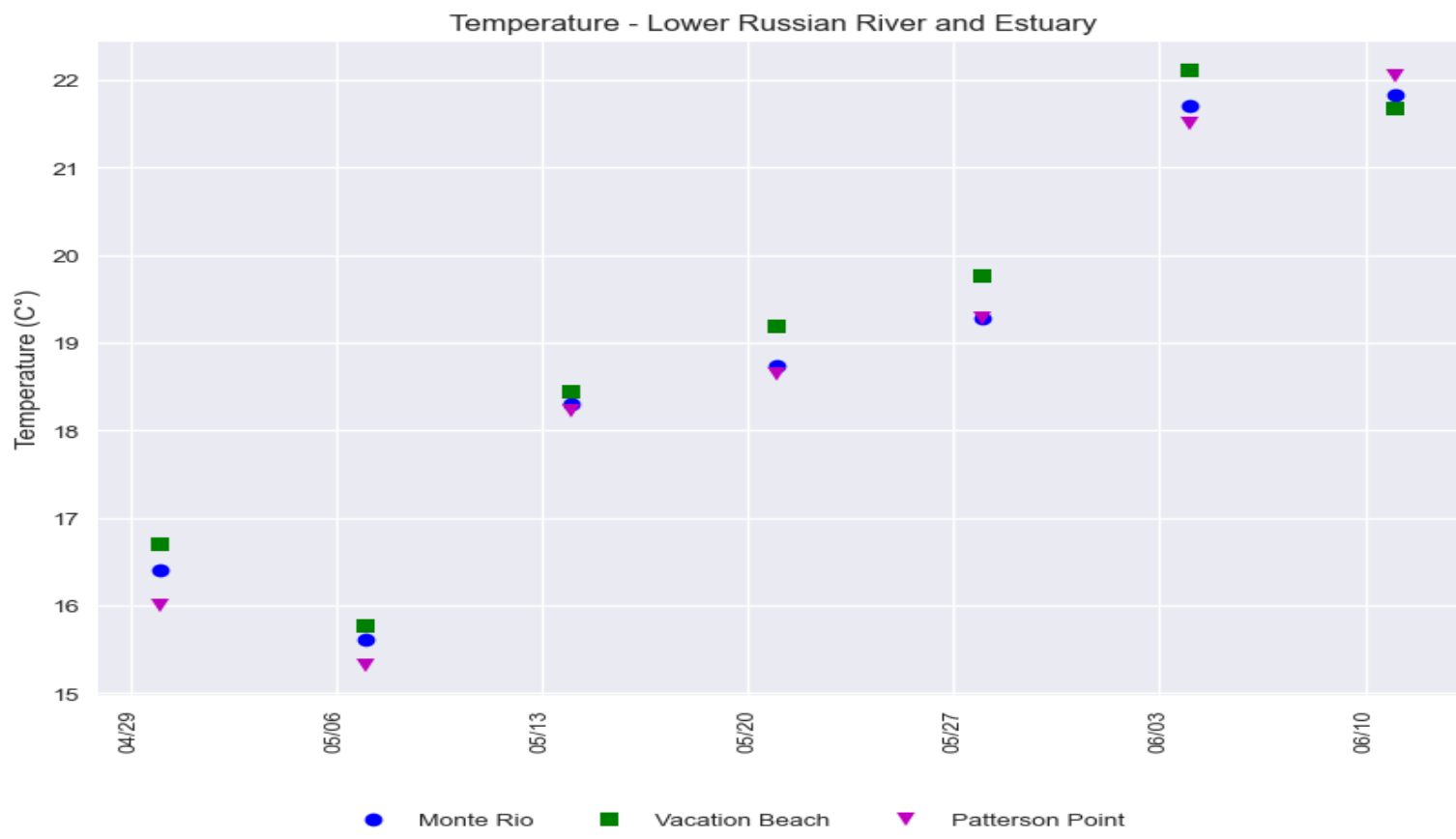
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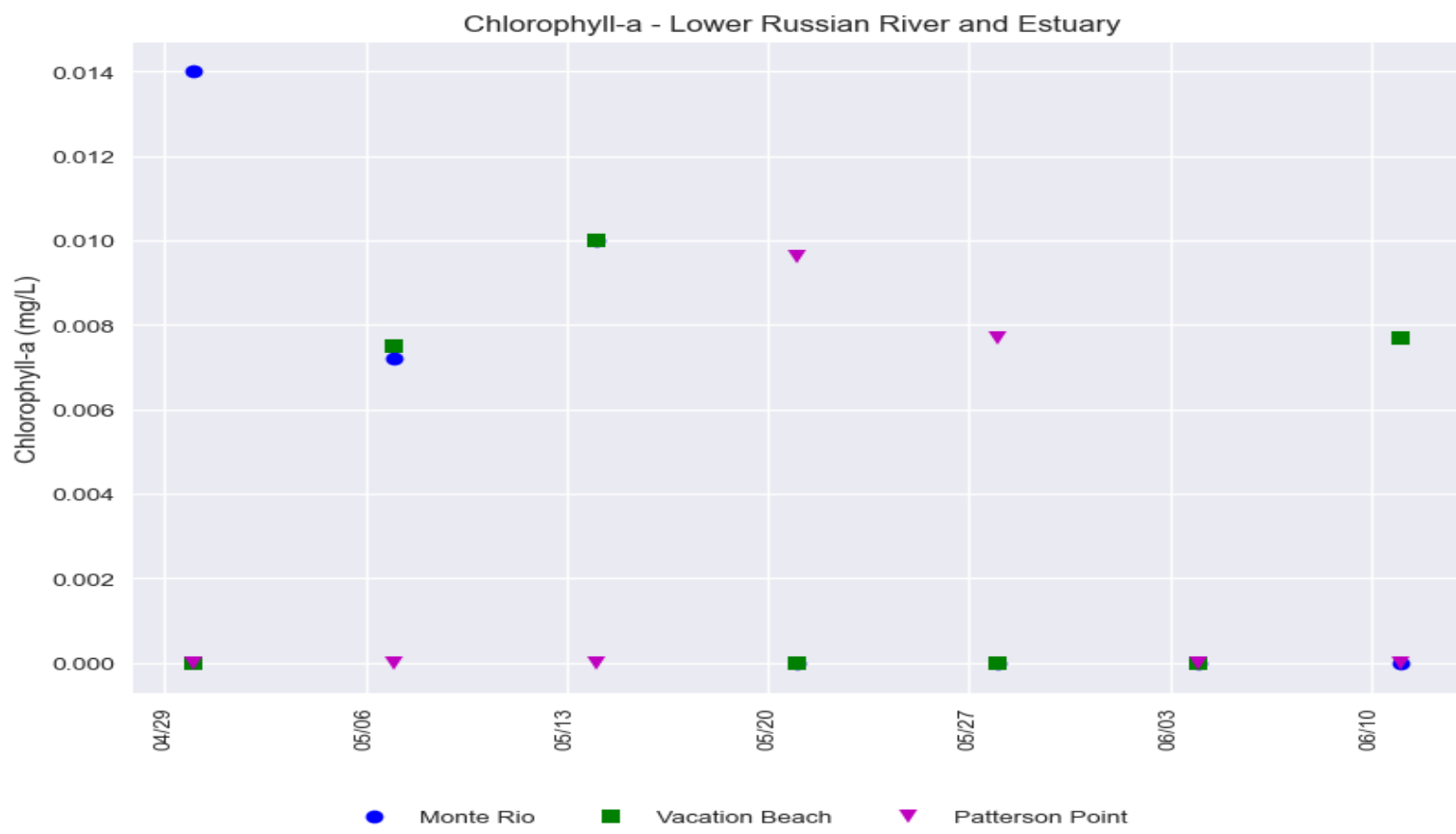
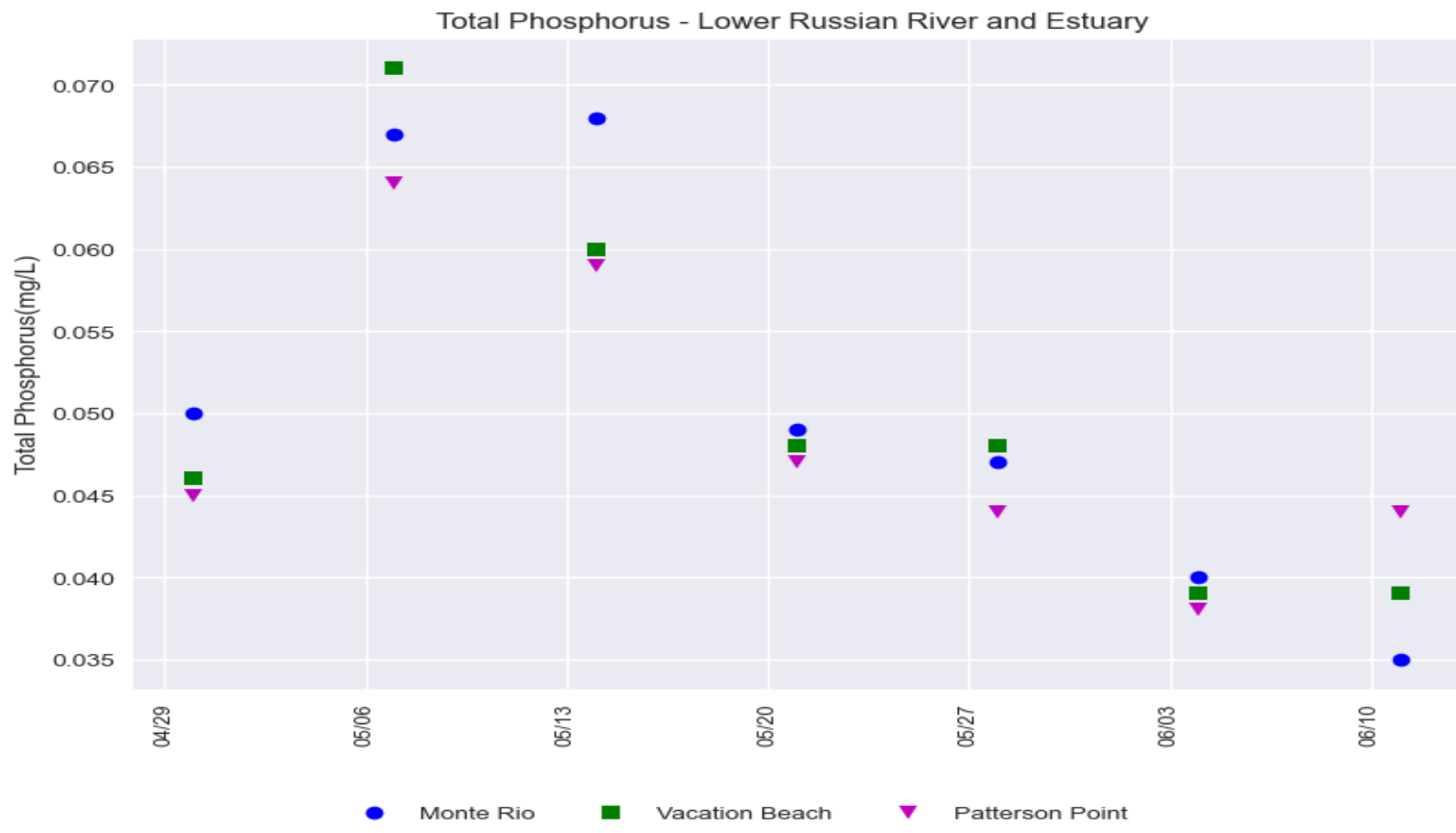
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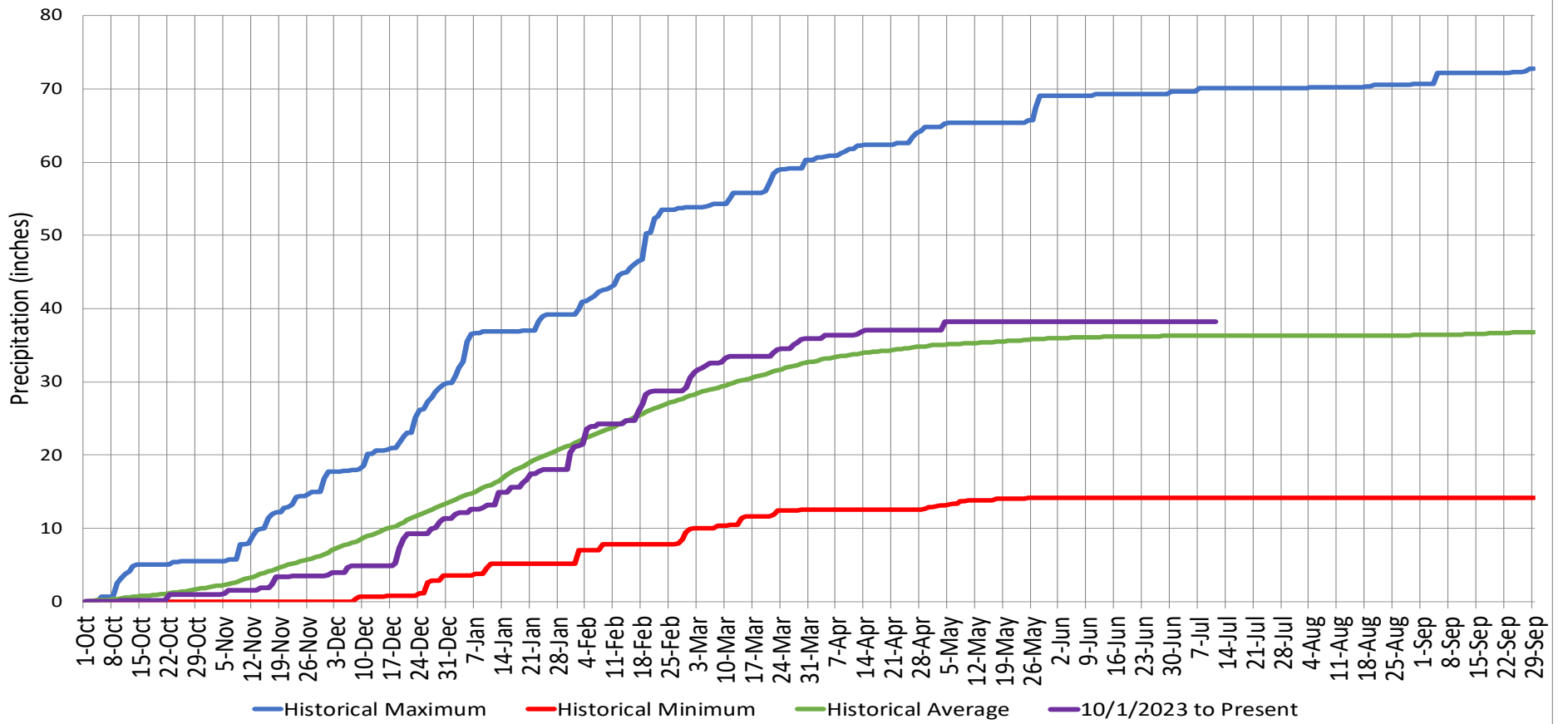


Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

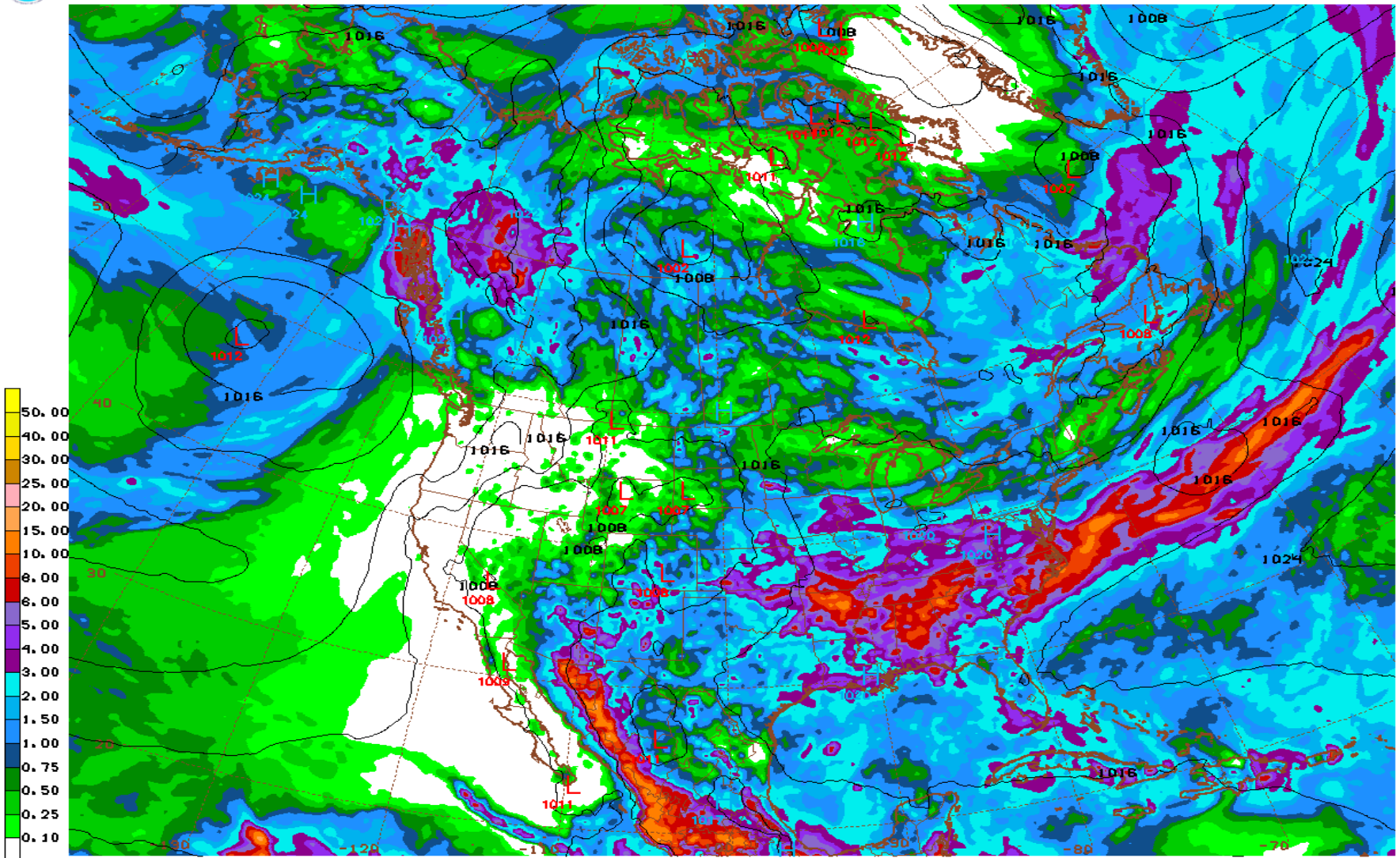
Date Range	Cumulative (inches)
Oct 1, 2023 - Jul 11, 2024	38.22
Last 7 Days*	0.00

Cumulative Precipitation Comparison of Current Year versus Historic Record



Global Forecast System Model 16-day Cumulative Precipitation Forecast

GFS 07/15/24 12UTC 384HR FCST VALID WED 07/31/24 12UTC NOAA/NWS/NCEP



GFS WED 240731/1200V384 ENSL (4MB), 384HR ACCUMULATED PRECIP (IN)

Date Range
Jul 15 - Jul 31, 2024

Forecasted Cumulative (inches)
0.00