



State Water Resources Control Board
 Temporary Urgency Change Orders (12/27/2023 & 6/6/2024)
 Russian River Hydrologic & Water Quality Report
 June 28, 2024 - July 4, 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).

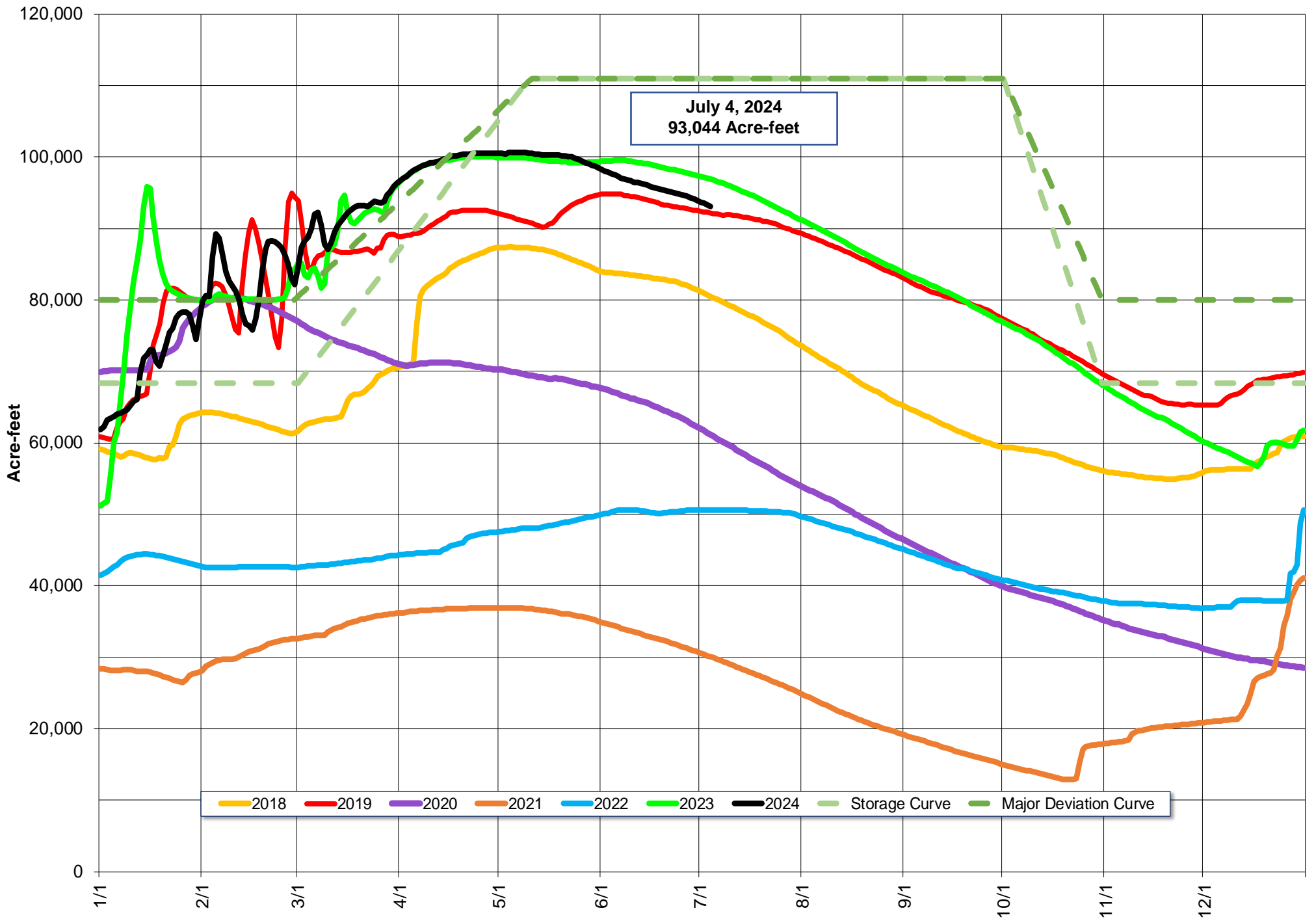
Instream Flow Requirements as of July 4, 2024

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



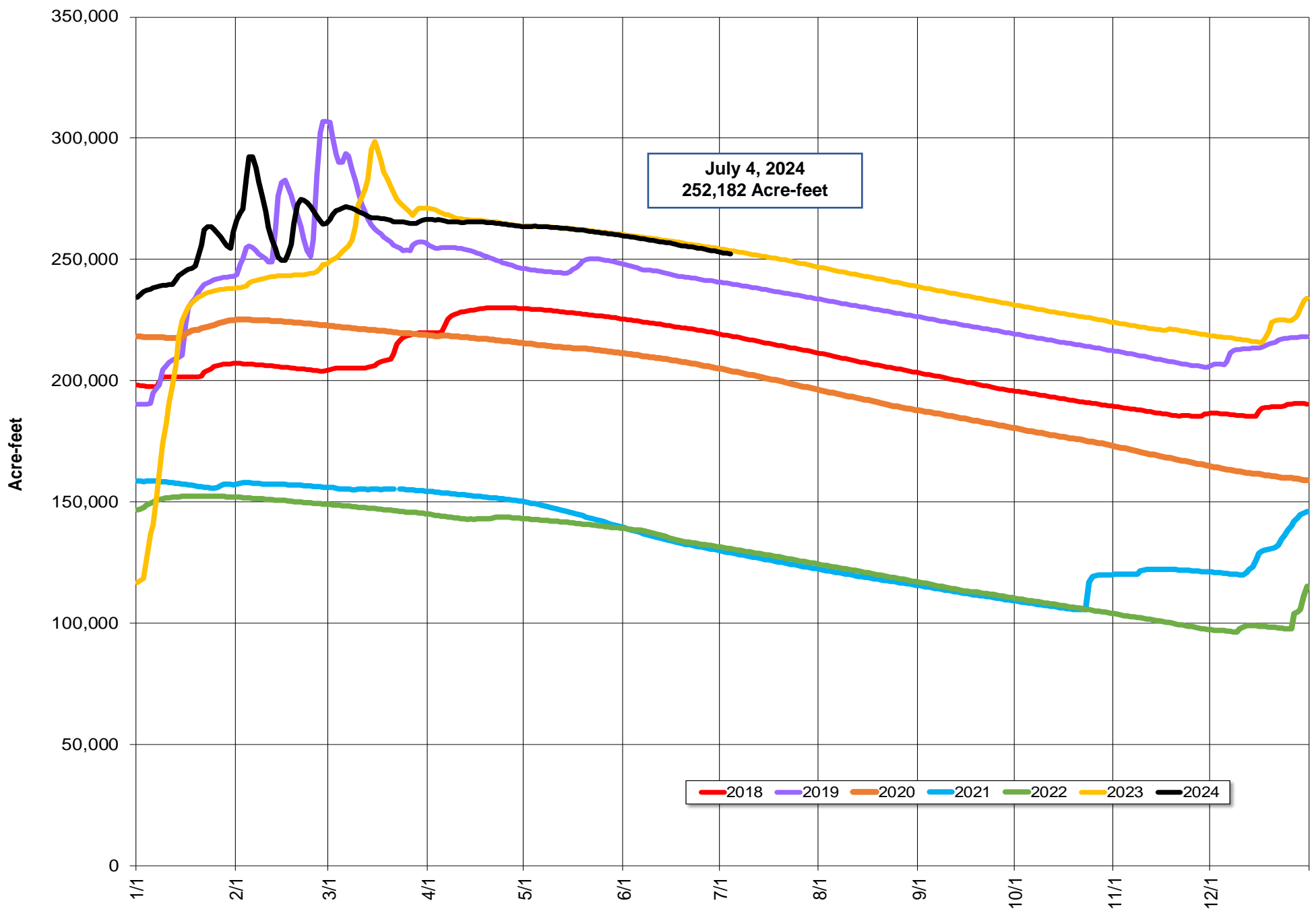
Storage (acre-feet)	July 4, 2024	93,044	
Change in Storage (acre-feet)	Last 30 days	-4,625	-154
	Last 7 days	-1,290	-184
Daily Inflow (cfs)	Last 7 days	Min	58
		Max	78
		Mean	65
Release (cfs)	Last 7 days	Min	150
		Max	155
		Mean	154

Lake Sonoma



Todd Schram, February 10, 2024

Lake Sonoma Storage 2018-2024



Storage (acre-feet)	July 4, 2024	252,182	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
	Last 7 days	-6,923	-231
Daily Inflow (cfs)	Last 7 days	Min	0
		Max	18
		Mean	3
Release (cfs)	Last 7 days	Min	99
		Max	111
		Mean	103

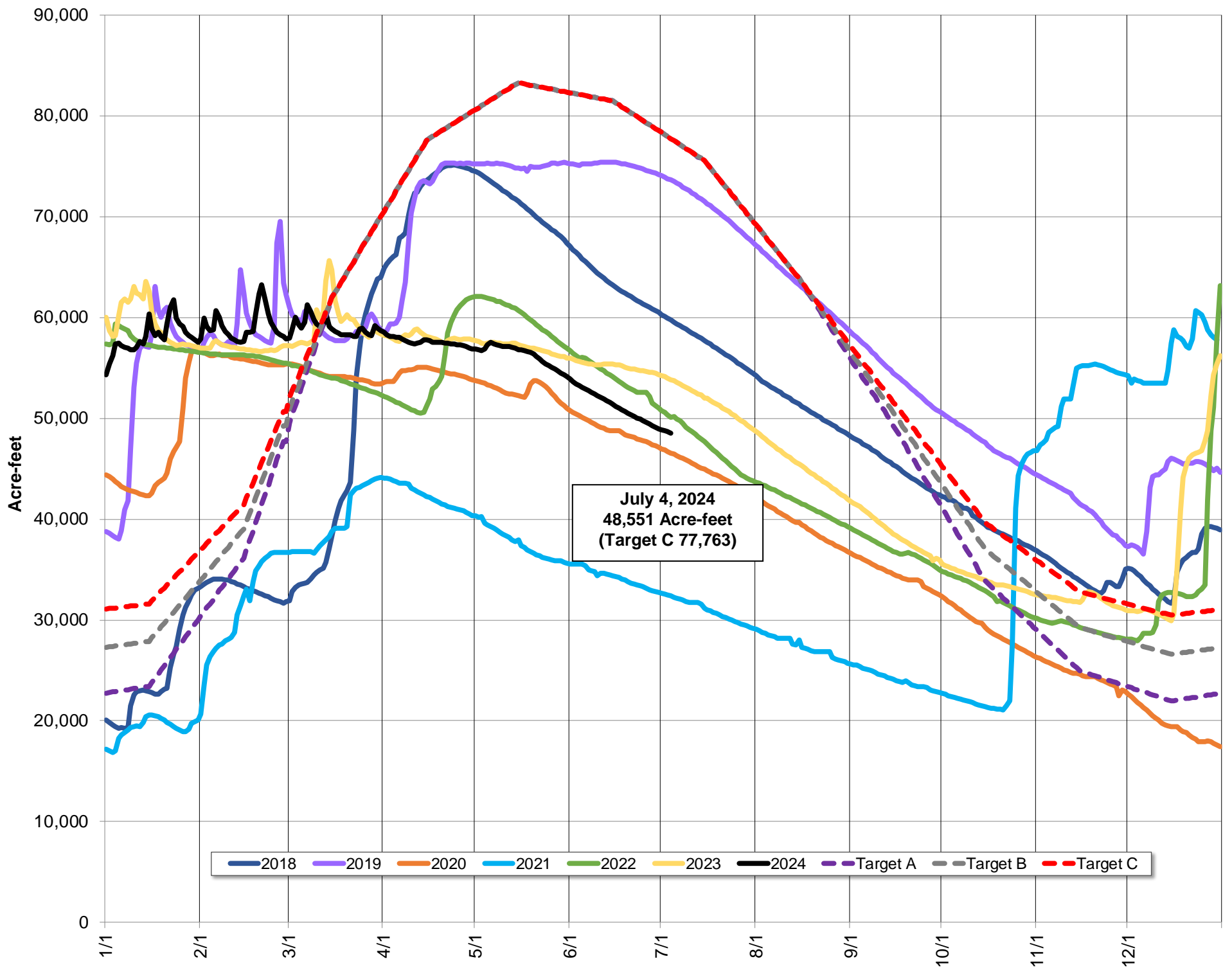
Potter Valley Project

PVP Diversion (cfs)	July 4, 2024	64
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2023 - July 4, 2024	485,468	1,746
	Last 7 days	496	71

*Inflow calculation based on criteria established in D1610

Lake Pillsbury Storage 2018 - 2024 and Target Storage Scenarios

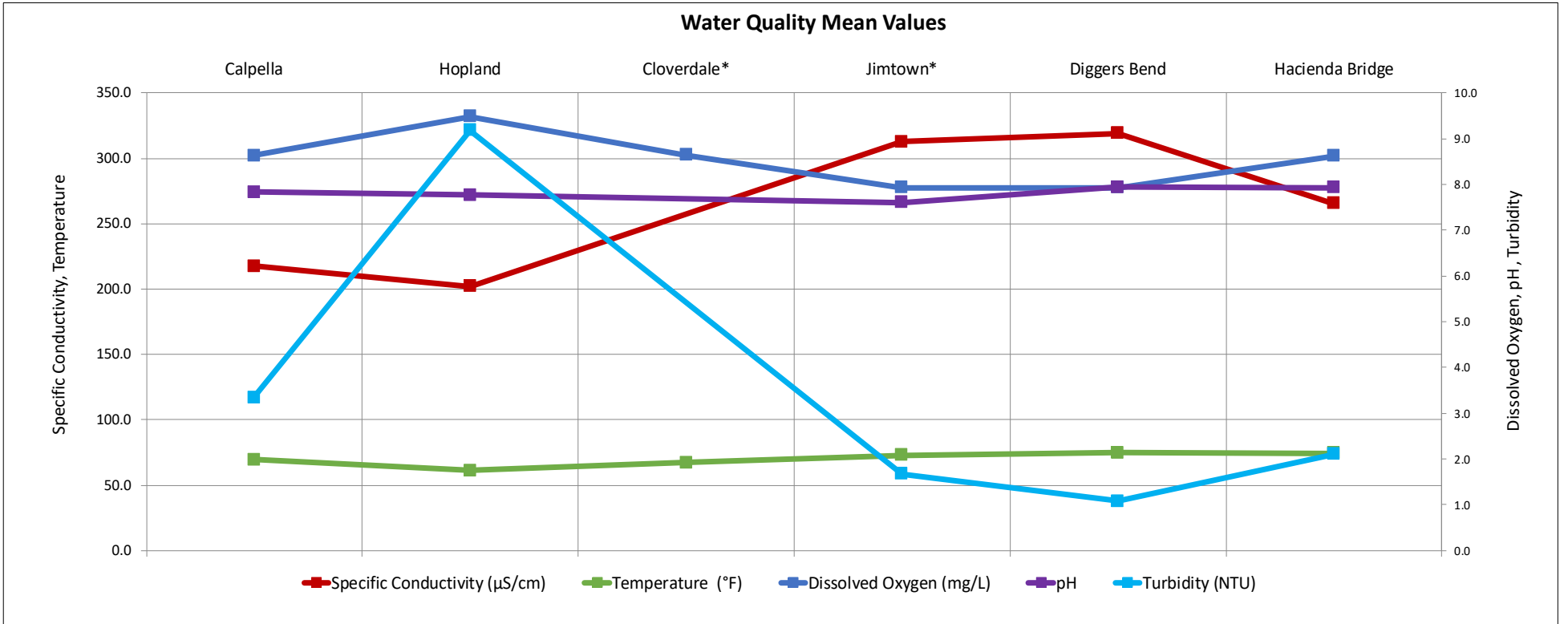


Russian River Flows (June 28, 2024 - July 4, 2024)

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	64.0	58.6	63.1	67.3	68.7		68.4	
	Max	75.6	63.7	71.8	79.0	80.4		80.1	
	Mean	69.6	61.1	67.3	72.9	74.7		74.4	
Specific Conductivity (µS/cm)	Min	201.0	199.0		308.0	316.0		258.0	
	Max	229.0	207.0		321.0	324.0		278.0	
	Mean	217.4	202.0		312.9	319.3		265.6	
Dissolved Oxygen (mg/L)	Min	7.8	8.6	7.9	6.3	6.3		6.7	
	Max	9.6	10.7	9.6	9.9	9.8		10.4	
	Mean	8.6	9.5	8.6	7.9	7.9		8.6	
Dissolved Oxygen (% Saturation)	Min	90.1	85.7	85.0	71.8	73.4		78.4	
	Max	107.6	112.1	109.8	119.5	117.9		123.3	
	Mean	96.5	96.6	94.5	92.3	93.9		101.7	
pH	Min	7.7	7.6		7.4	7.7		7.7	
	Max	8.1	8.0		7.8	8.2		8.2	
	Mean	7.8	7.8		7.6	7.9		7.9	
Turbidity (NTU)	Min	2.1	8.2		0.8	0.6		1.2	
	Max	4.5	11.3		3.4	1.9		4.8	
	Mean	3.3	9.2		1.7	1.1		2.1	

*Station operated seasonally

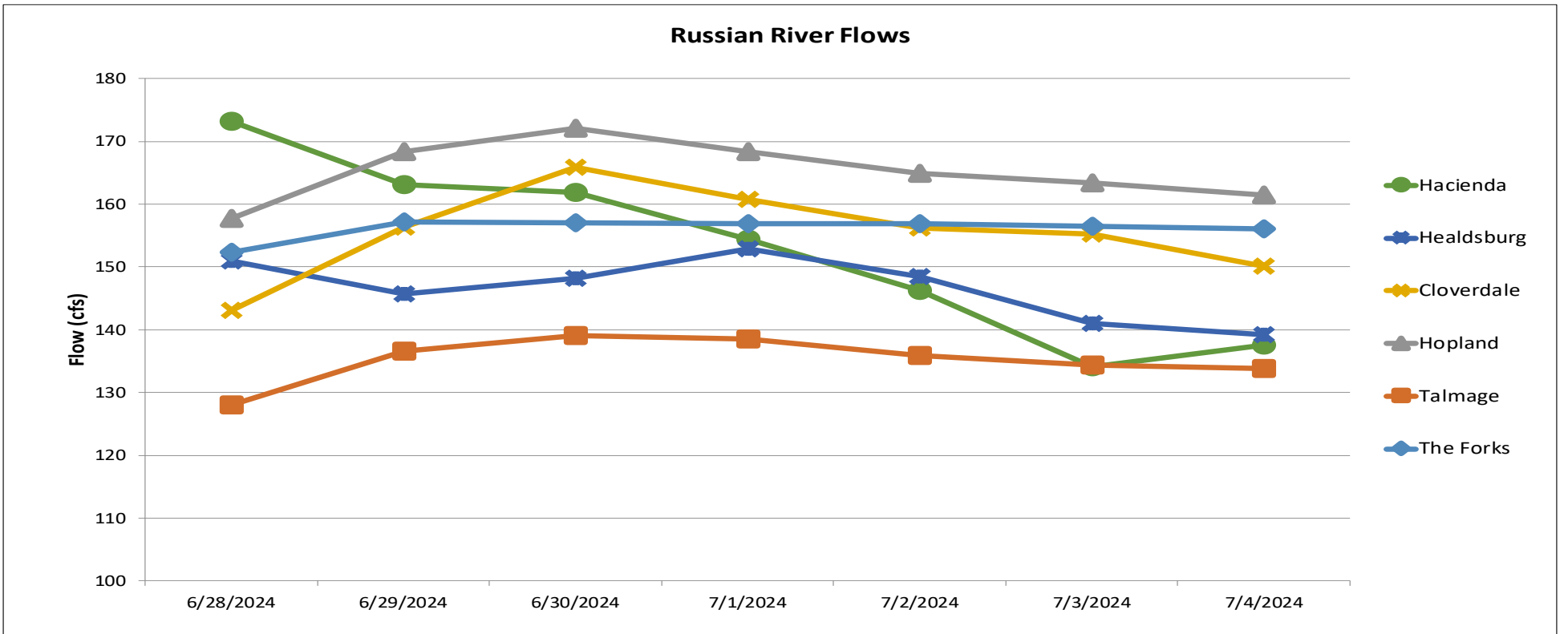
Water Quality Mean Values



Gage	24-hr Average Flow (cfs)						
	Jun 28, 2024	Jun 29, 2024	Jun 30, 2024	Jul 1, 2024	Jul 2, 2024	Jul 3, 2024	Jul 4, 2024
The Forks*	152	157	157	157	157	156	156
Talmage USGS 11462080	128	137	139	139	136	134	134
Hopland USGS 11462500	158	168	172	168	165	163	161
Cloverdale USGS 11463000	143	156	166	161	156	155	150
Healdsburg USGS 11464000	151	146	148	153	148	141	139
Hacienda USGS 11467000	173	163	162	154	146	134	138

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

Russian River Flows

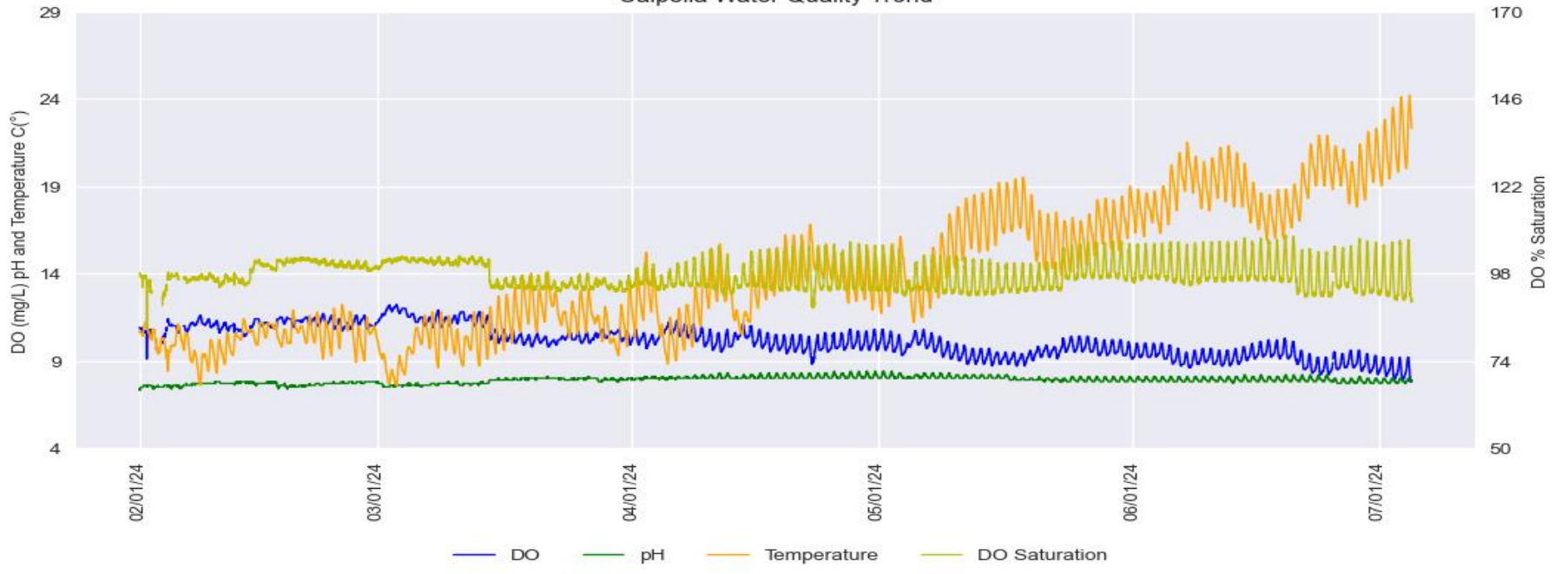


Russian River Water Quality February 1, 2024 – July 4, 2024

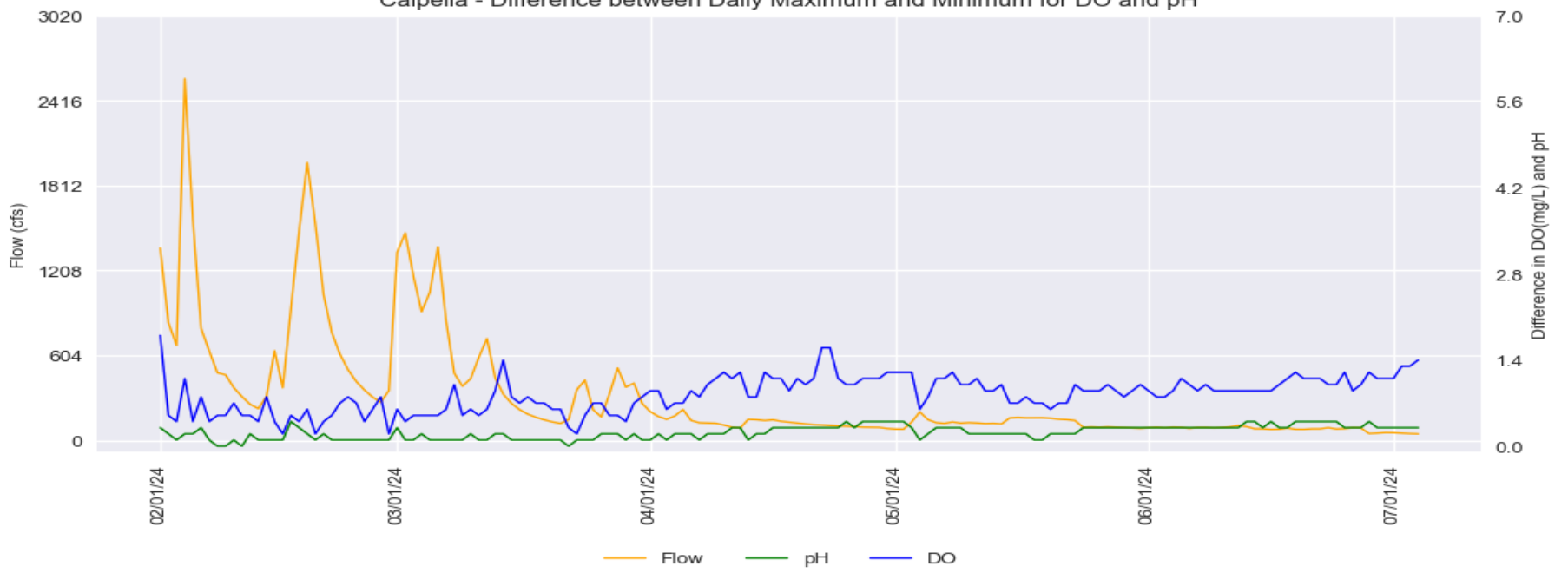
Provisional Data Subject to Revision

Calpella

Calpella Water Quality Trend

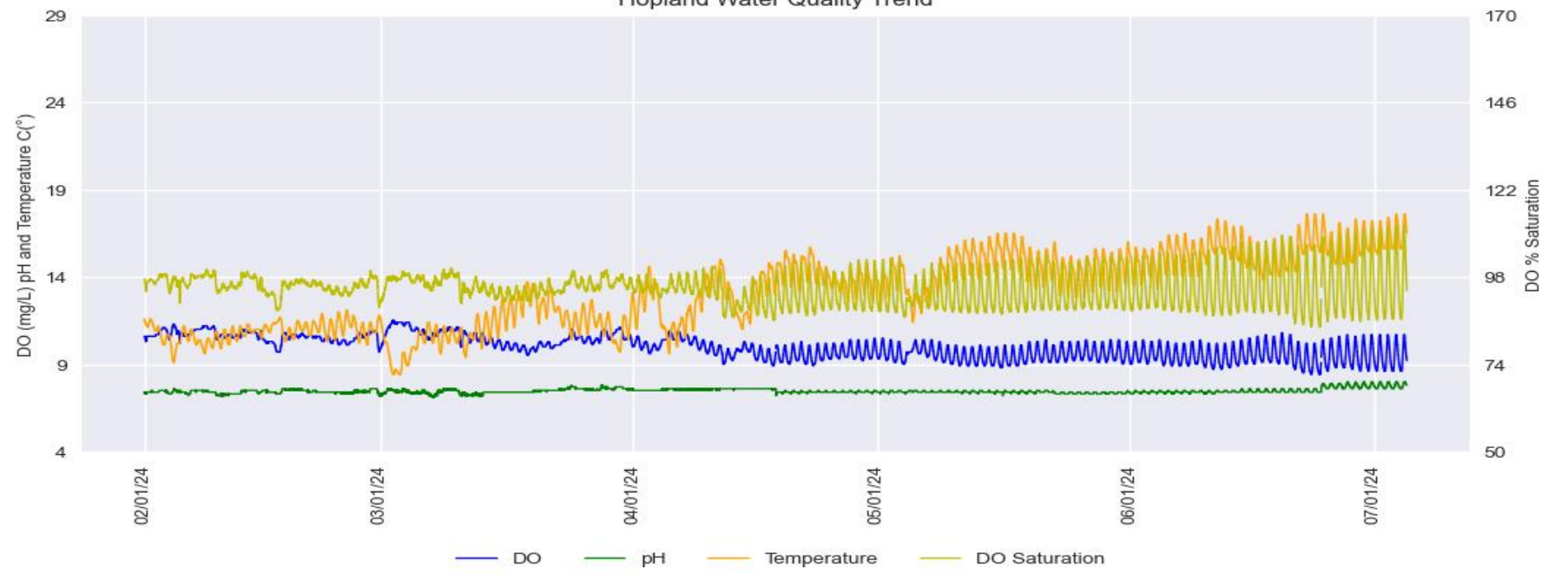


Calpella - Difference between Daily Maximum and Minimum for DO and pH

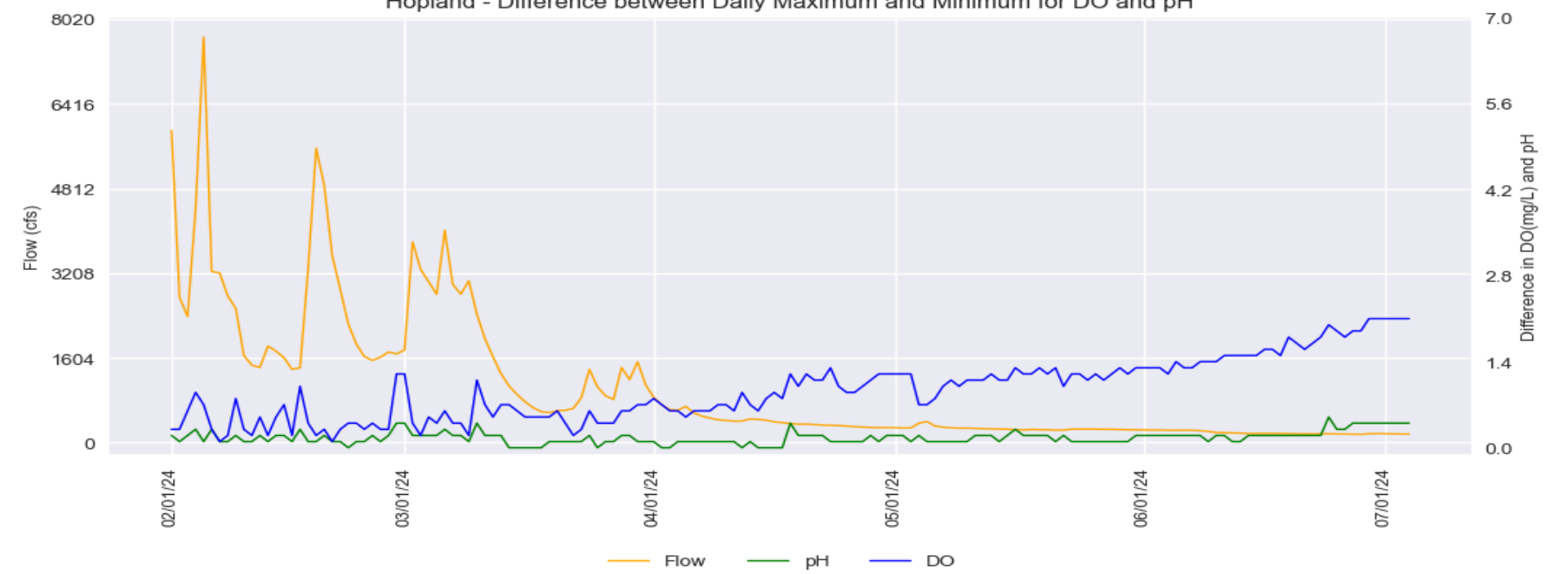


Hopland

Hopland Water Quality Trend



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

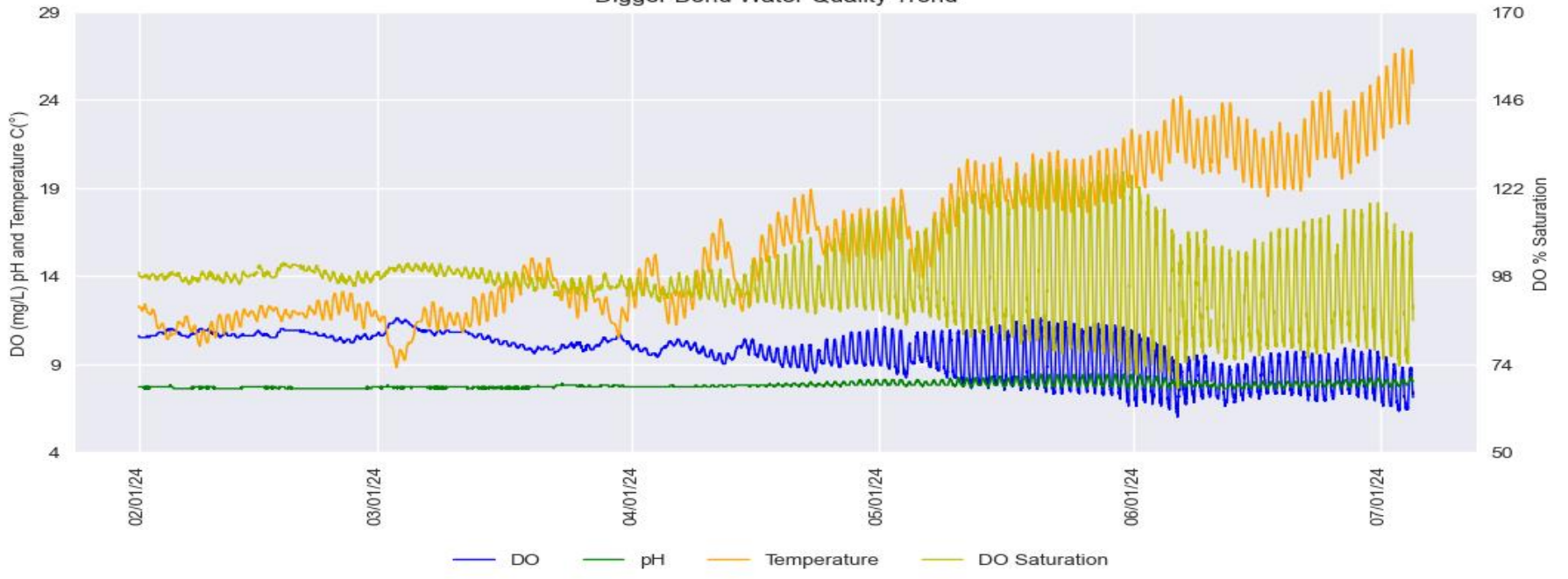


Russian River Water Quality February 1, 2024 – July 4, 2024

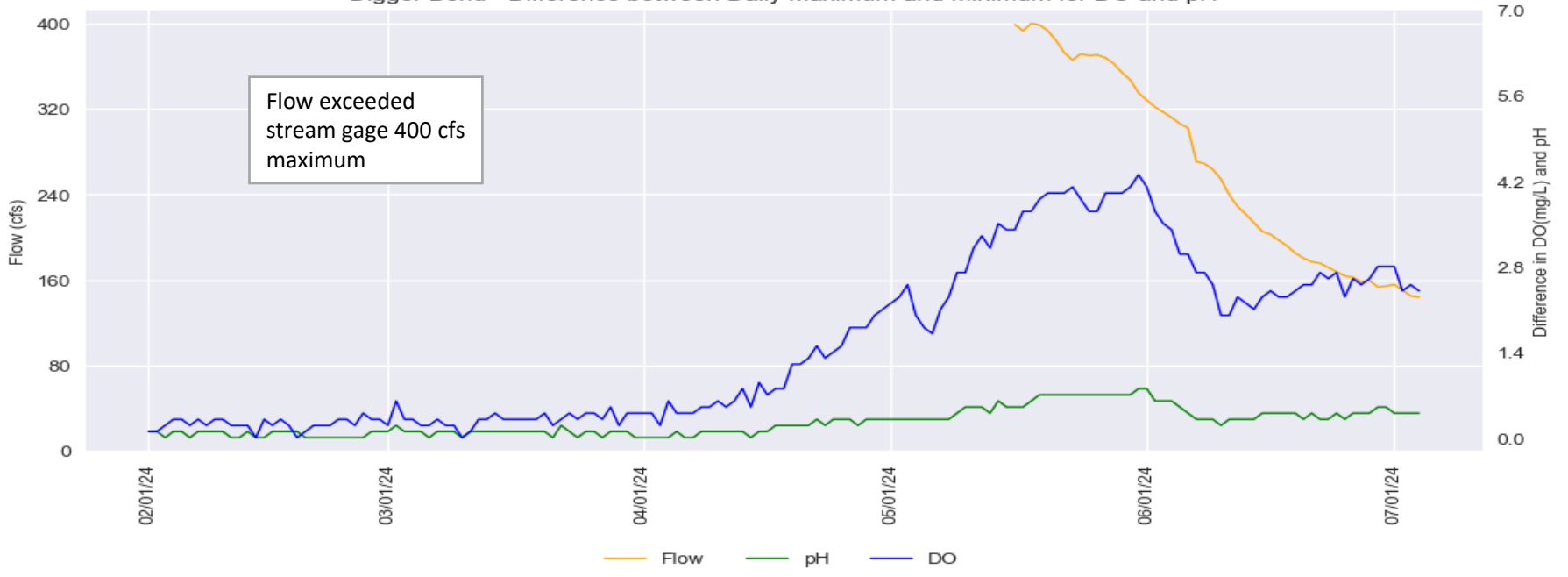
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Digger Bend

Digger Bend Water Quality Trend

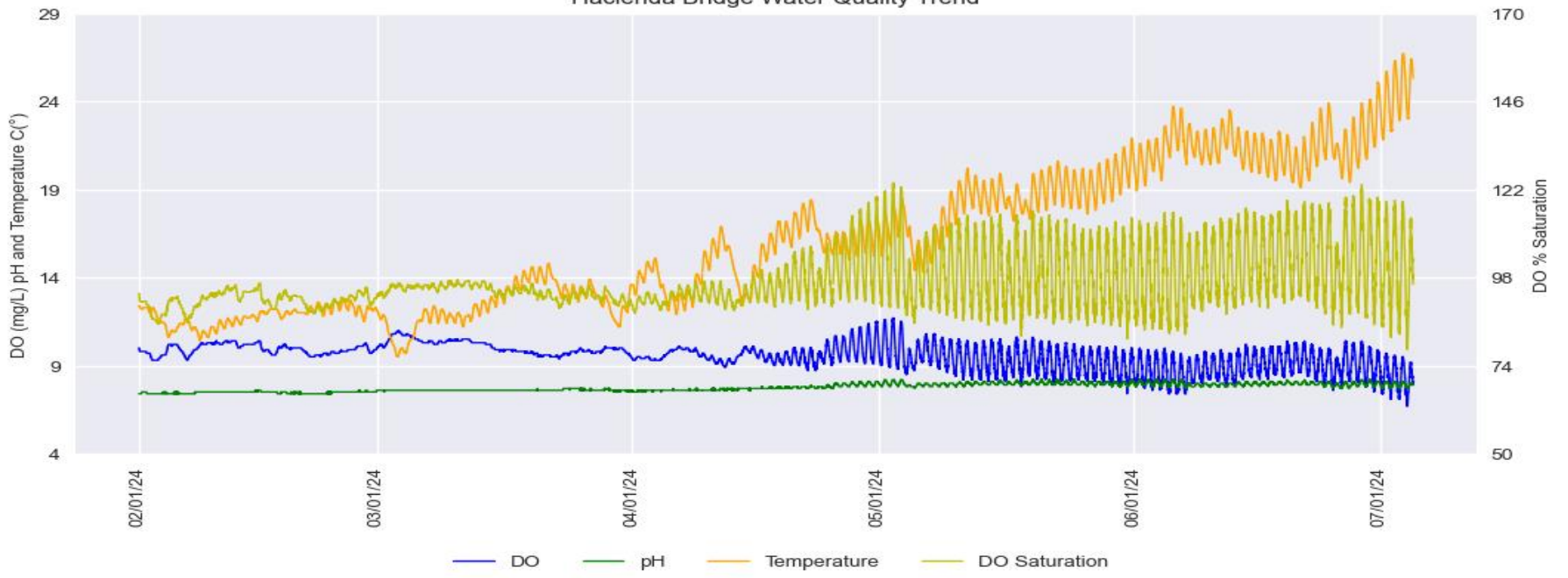


Digger Bend - Difference between Daily Maximum and Minimum for DO and pH

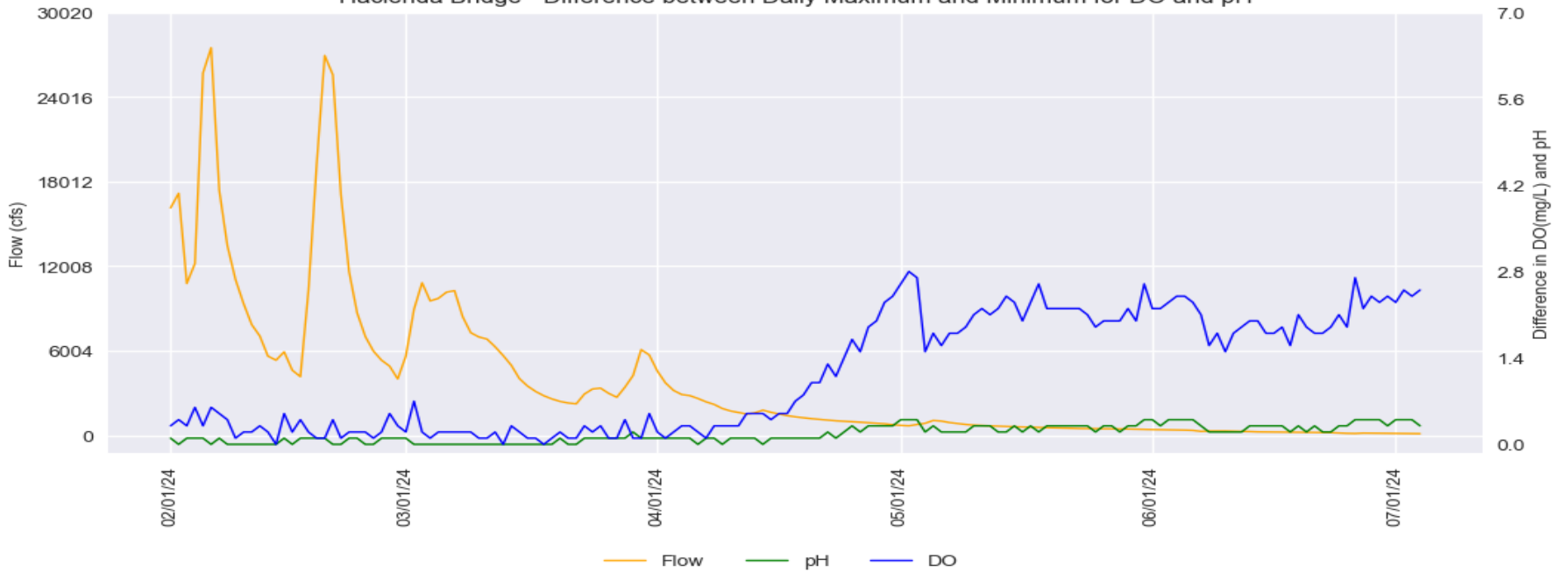


Hacienda Bridge

Hacienda Bridge Water Quality Trend



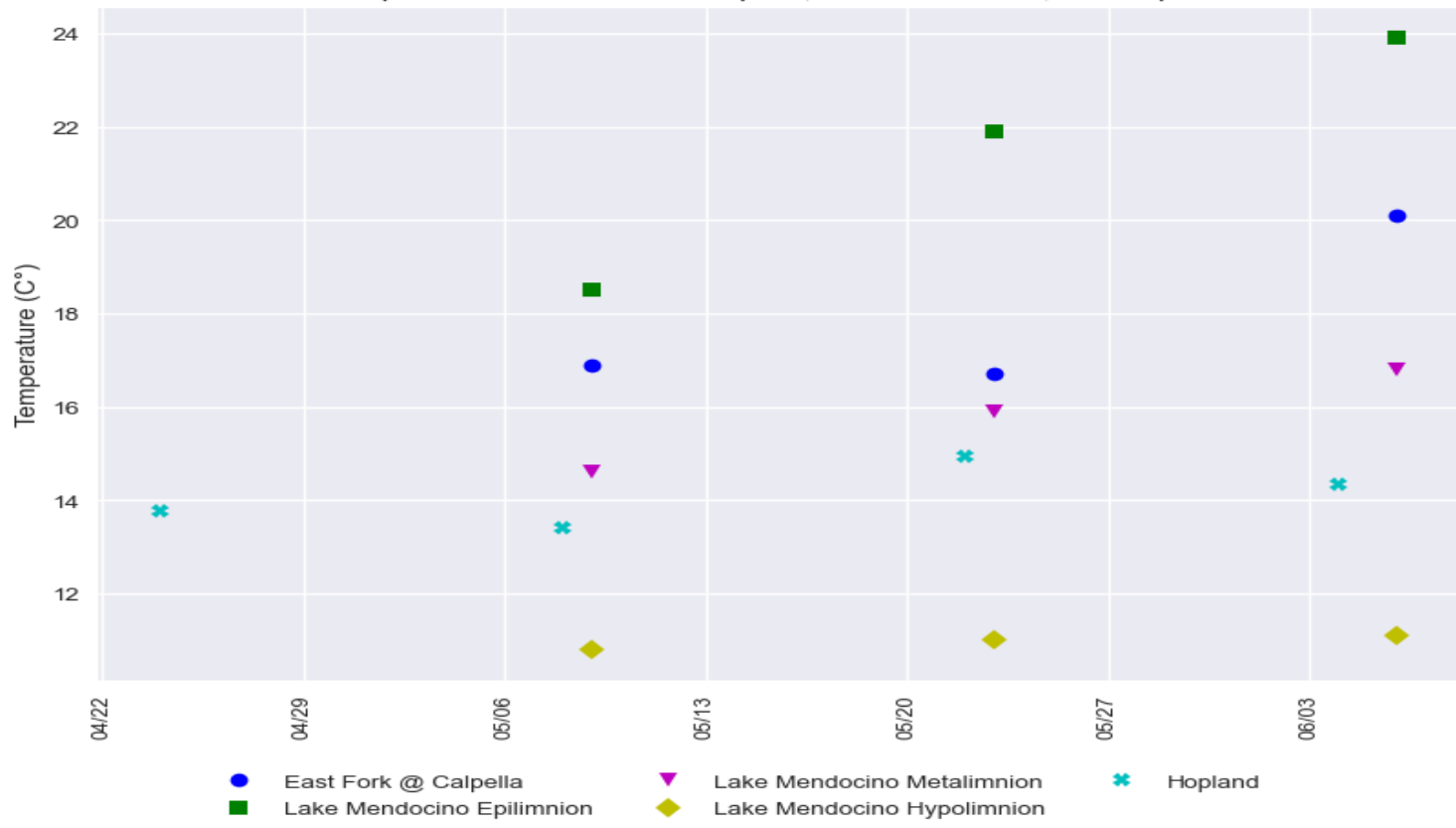
Hacienda Bridge - Difference between Daily Maximum and Minimum for DO and pH



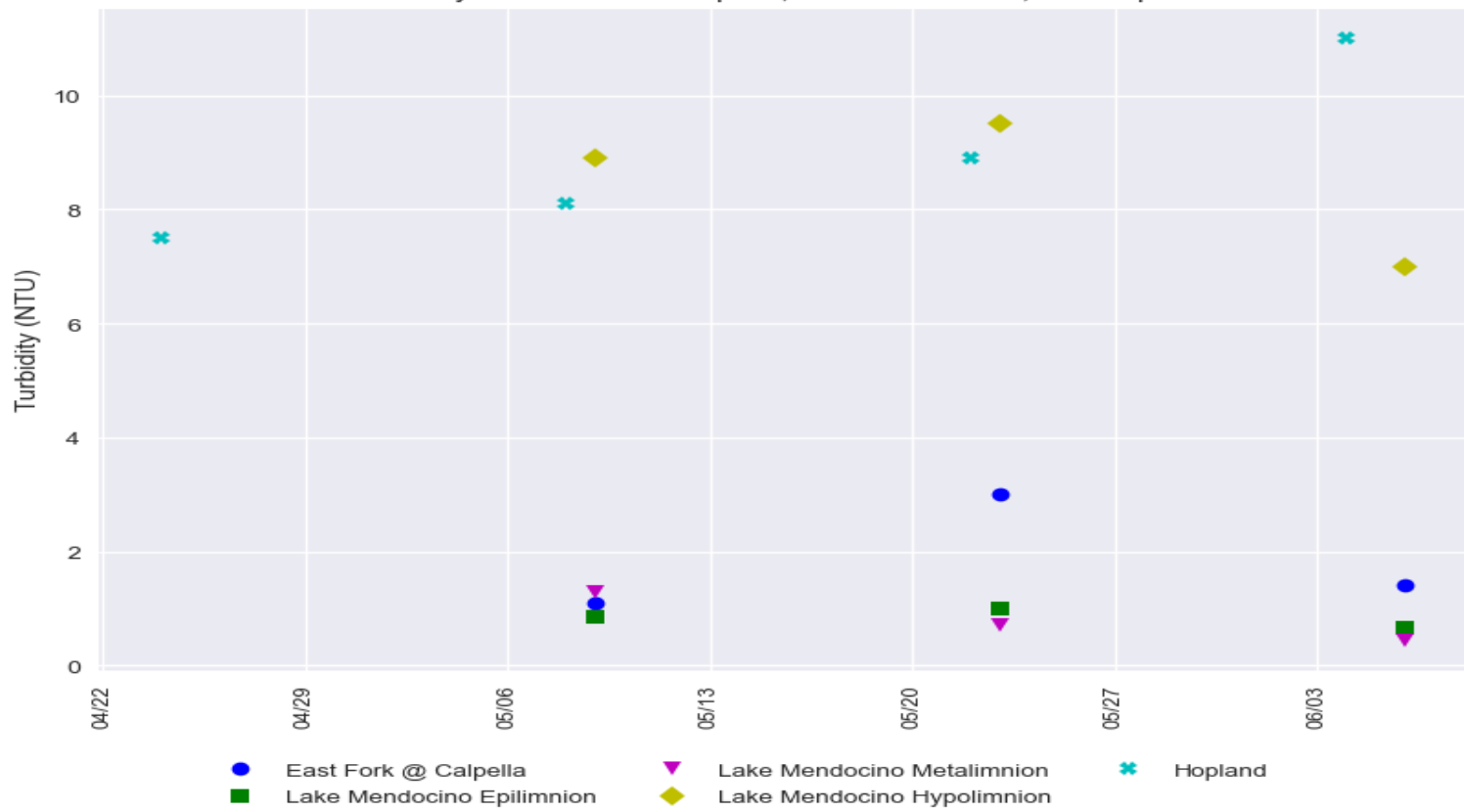
Russian River Water Quality Grab Samples

Provisional Data Subject to Revision

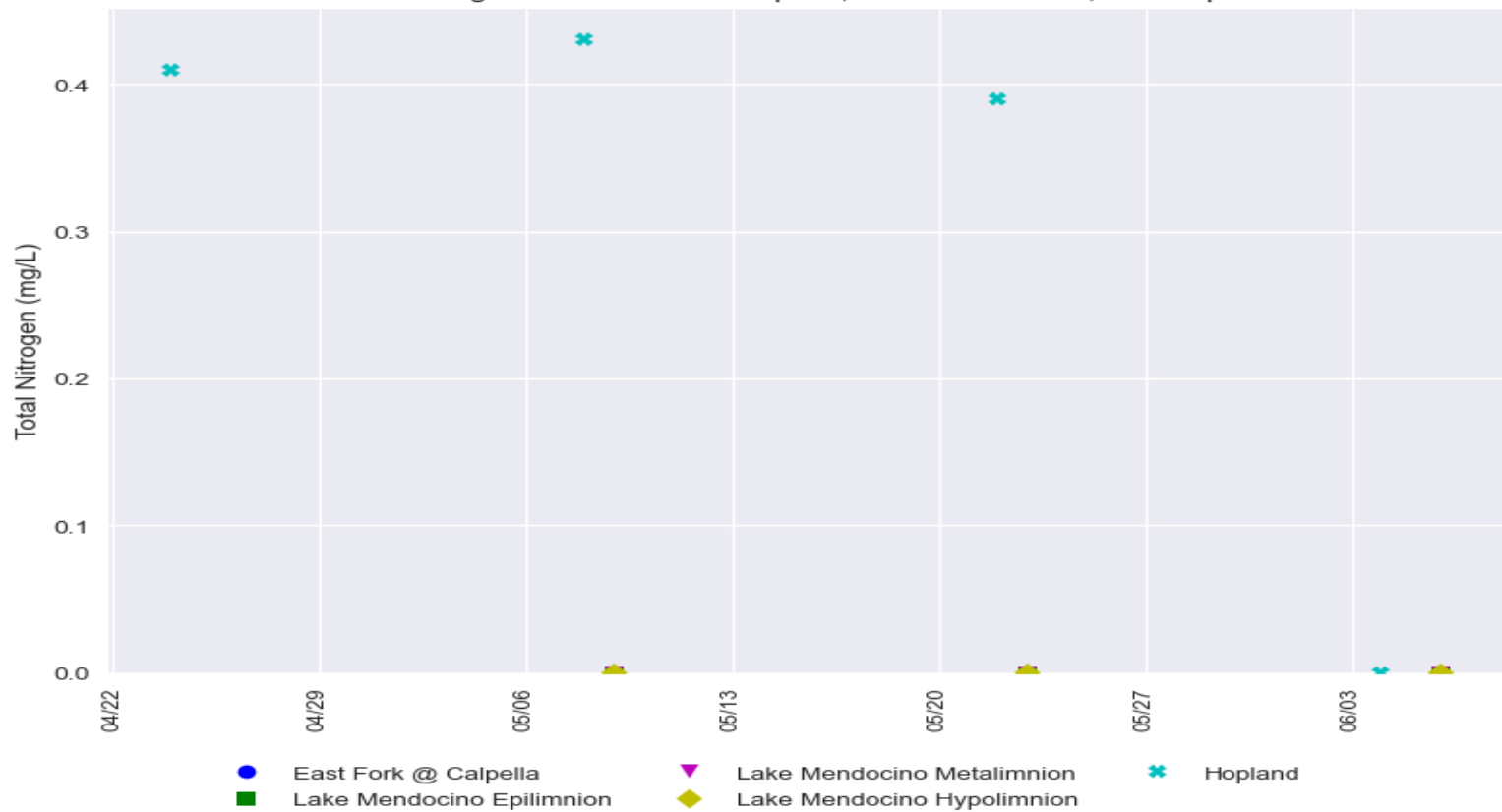
Temperature - East Fork at Calpella, Lake Mendocino, and Hopland



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

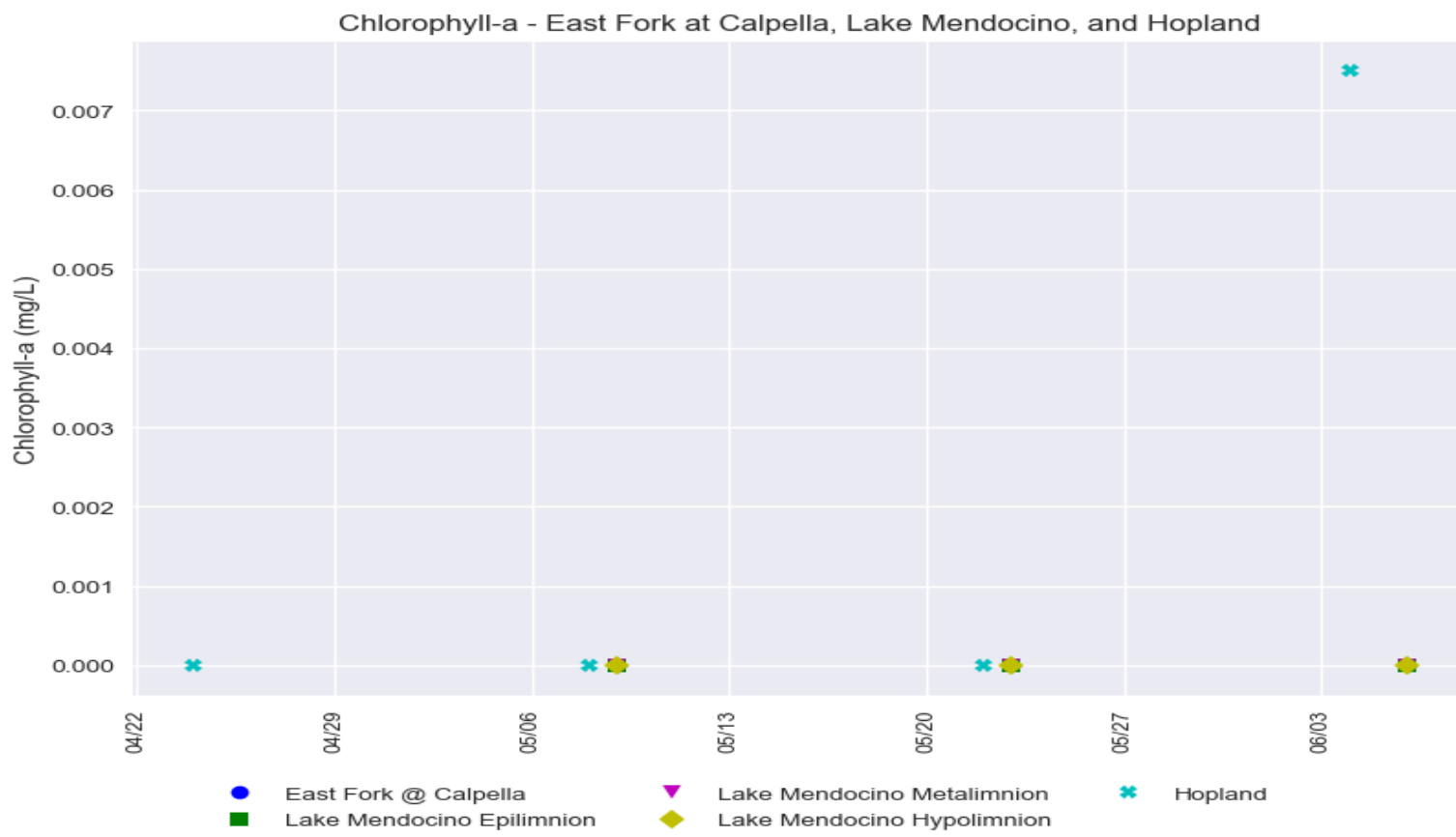
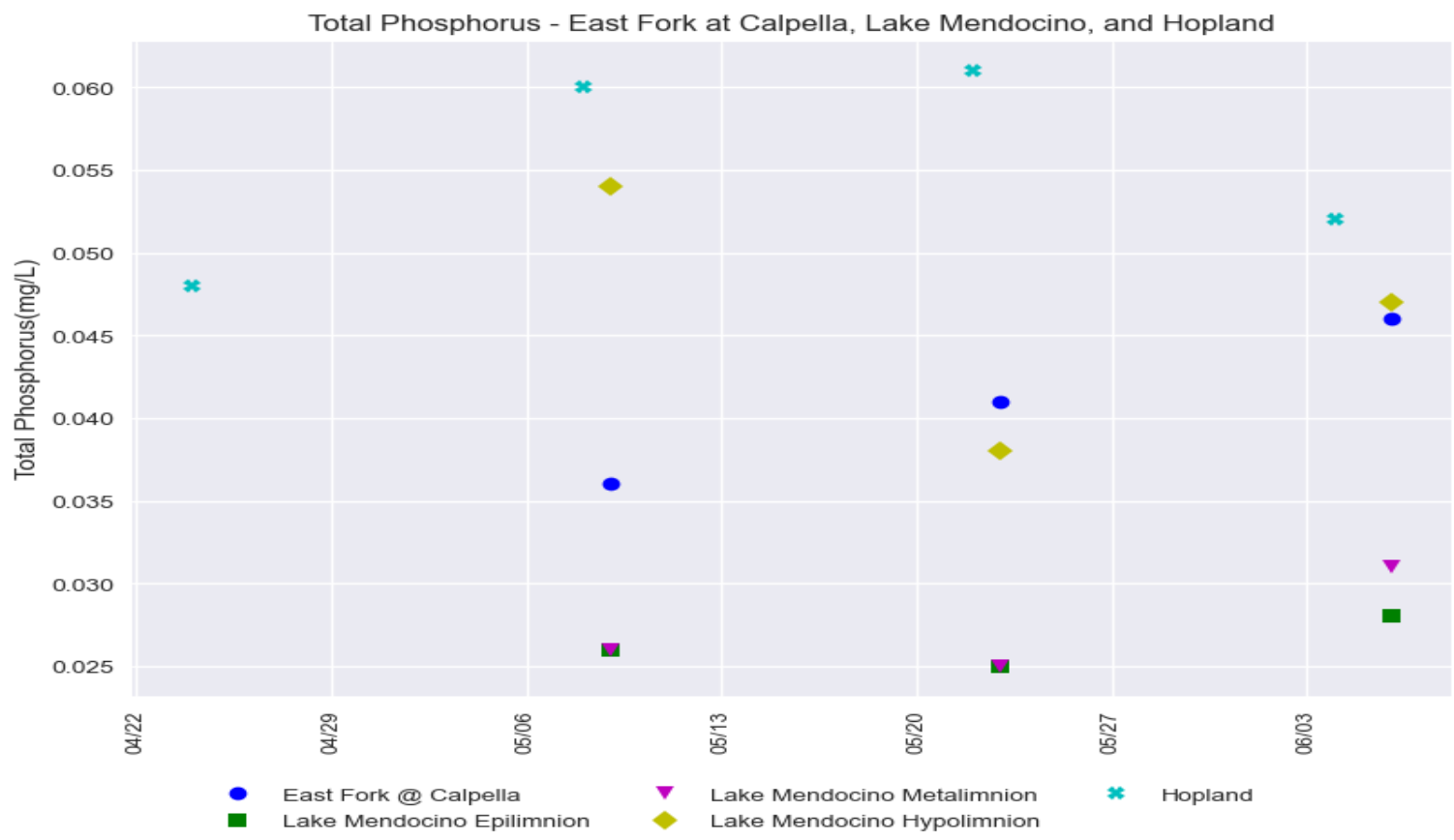


Total Nitrogen - East Fork at Calpella, Lake Mendocino, and Hopland



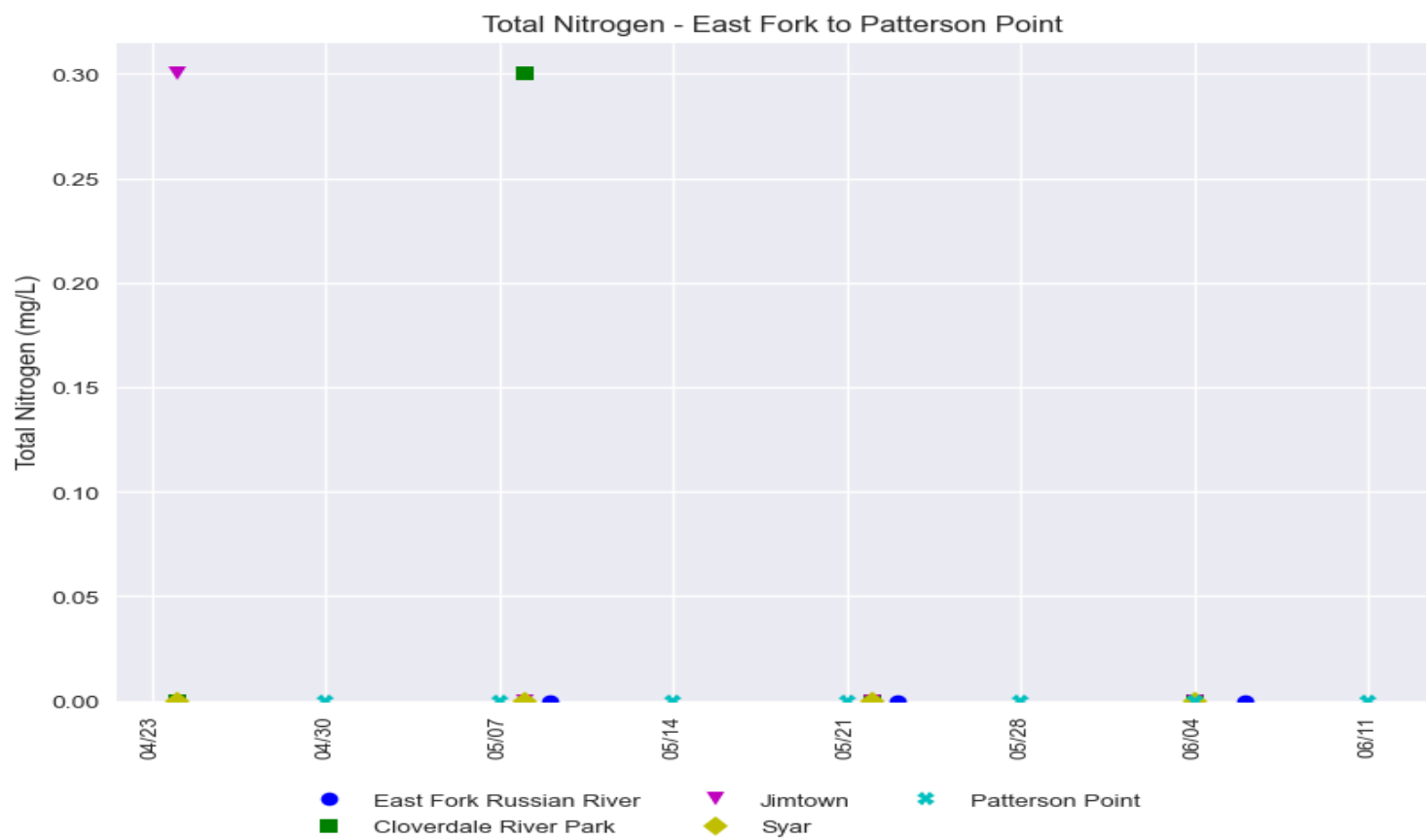
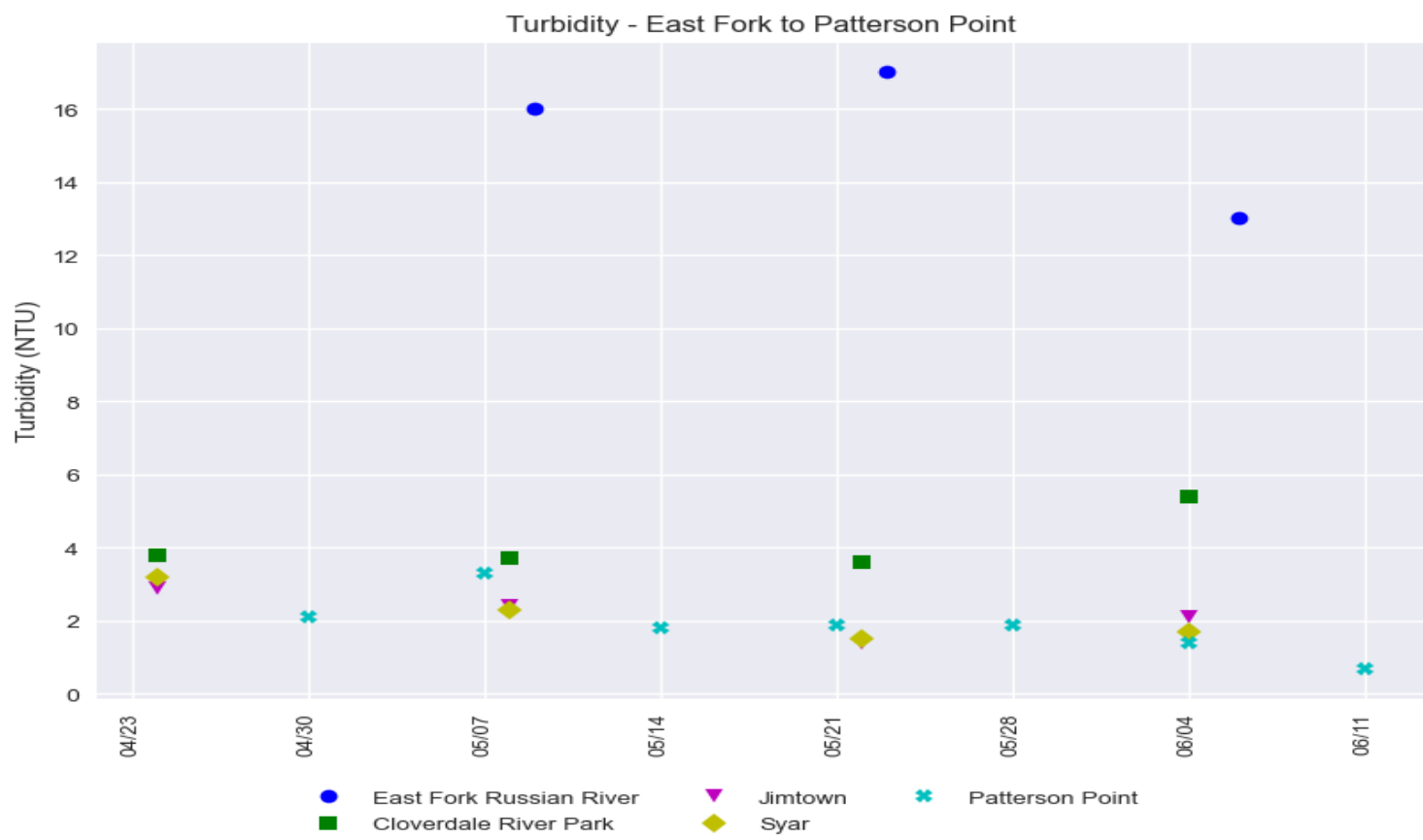
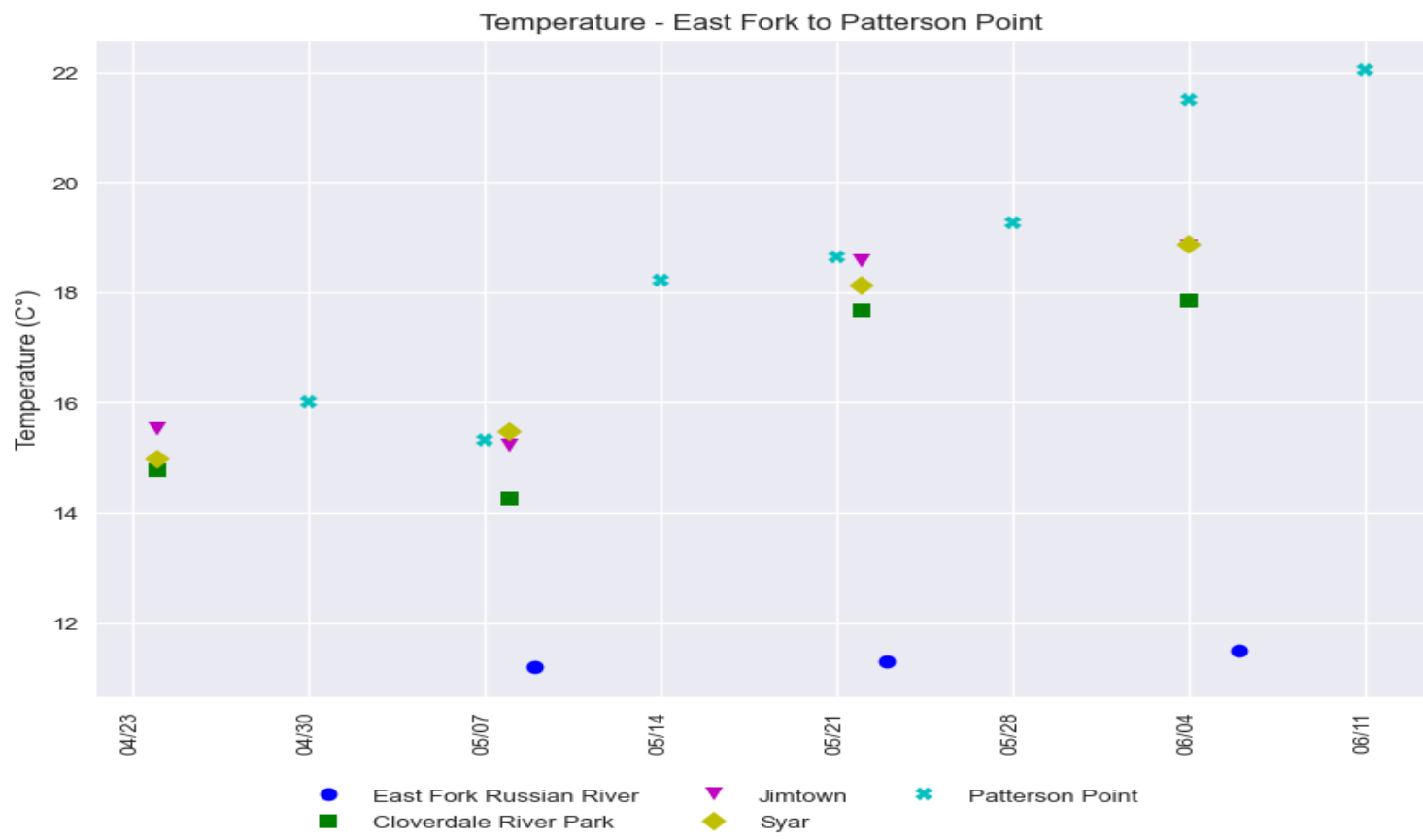
Russian River Water Quality Grab Samples

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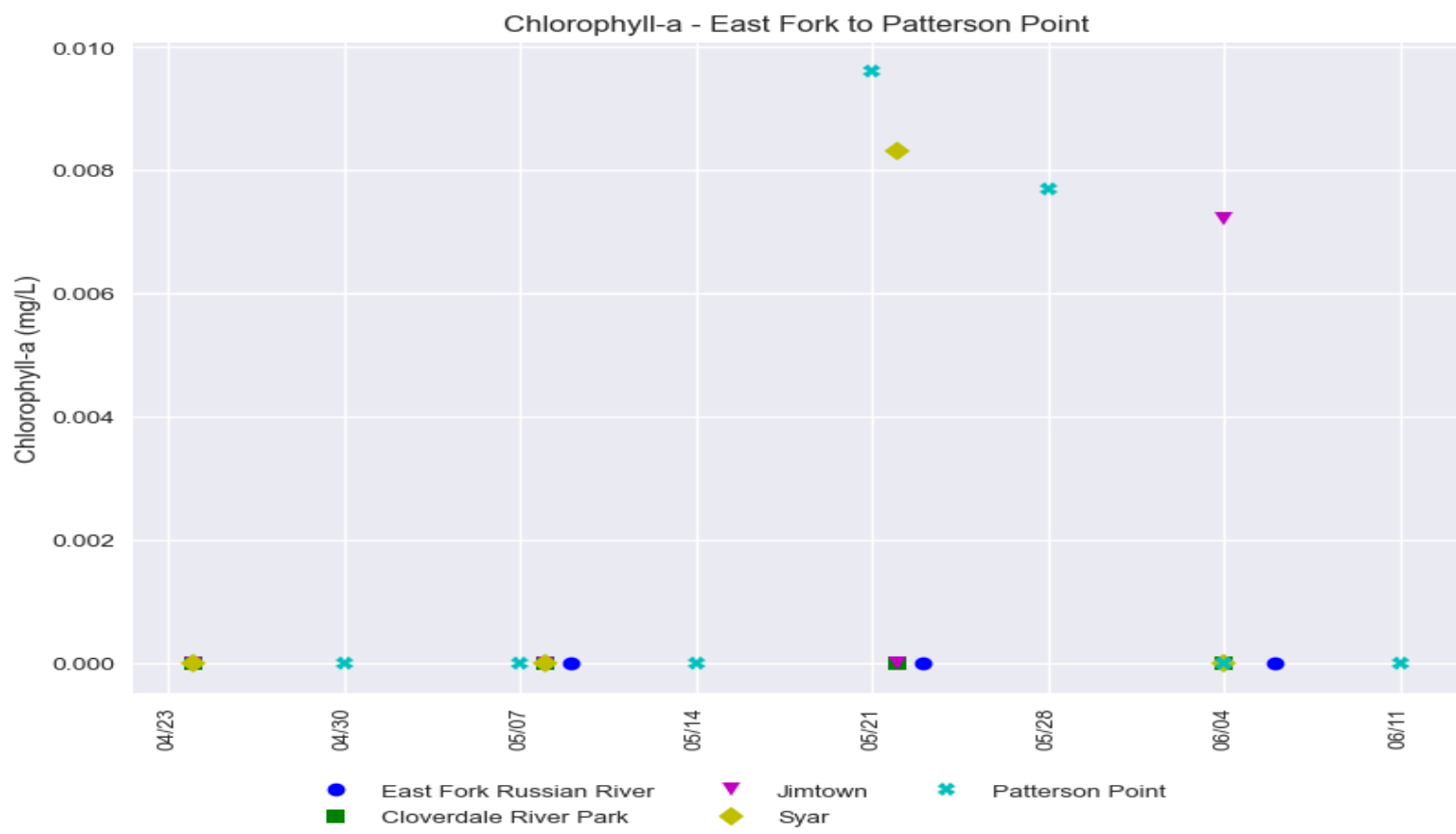
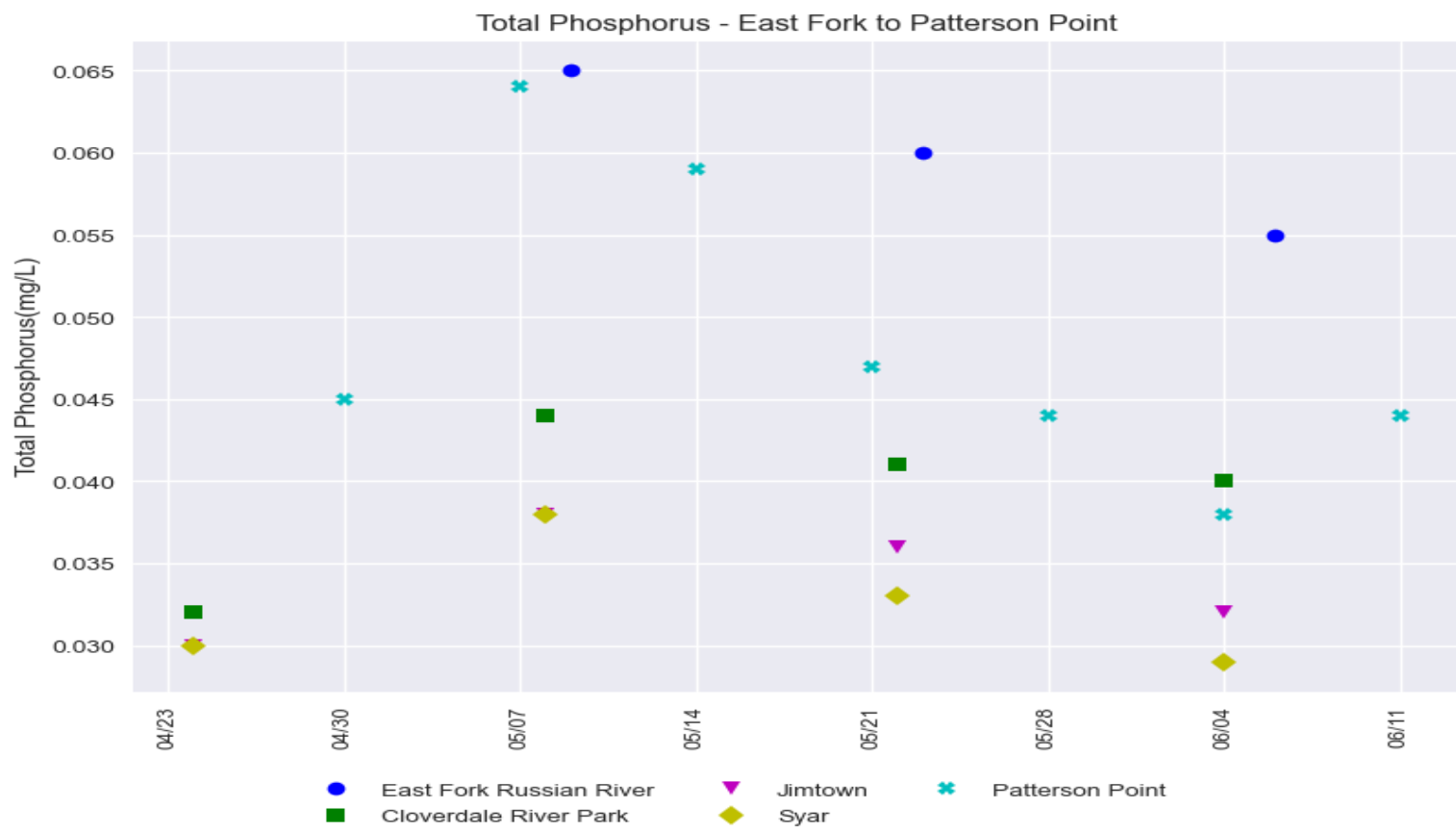
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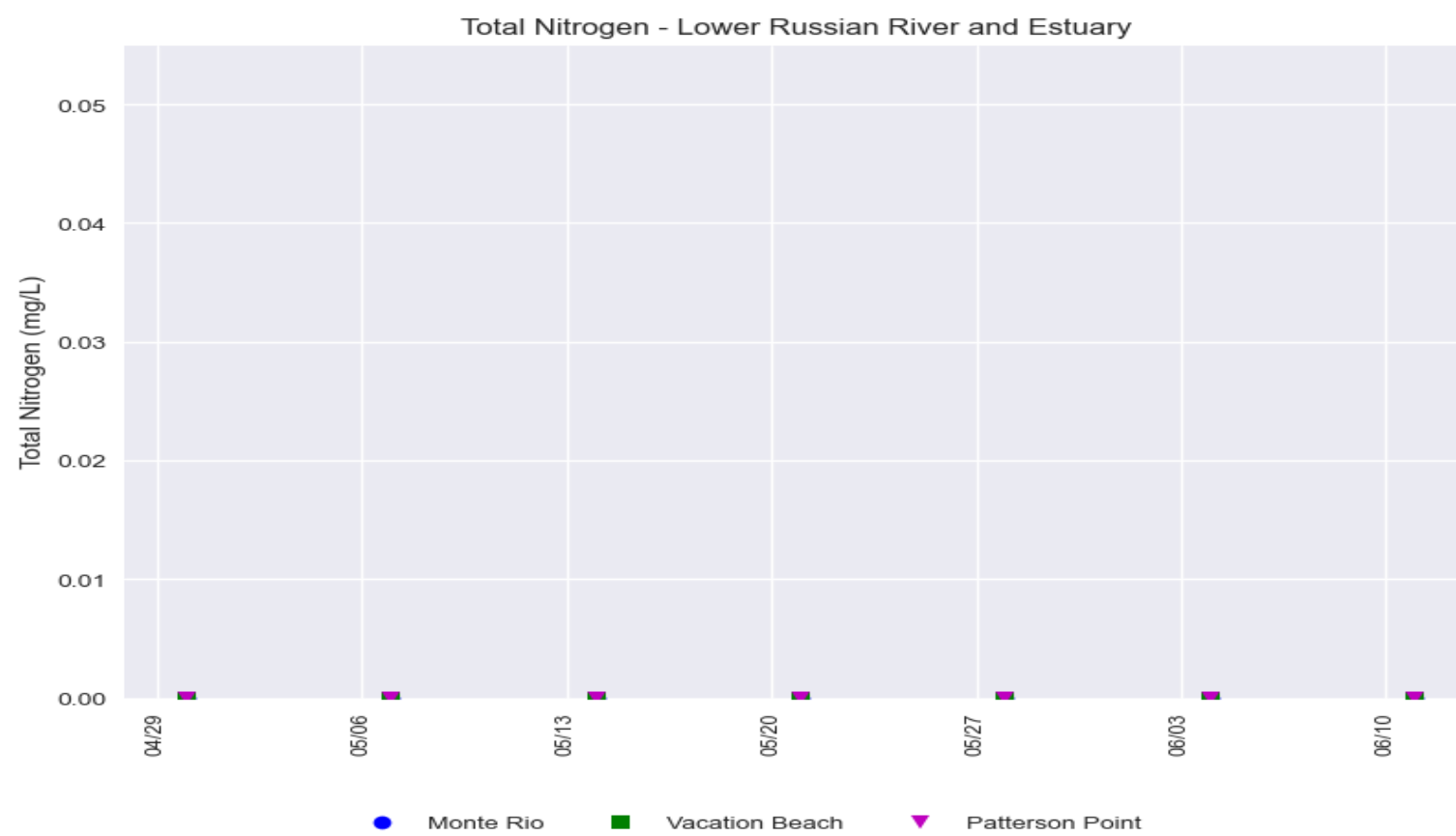
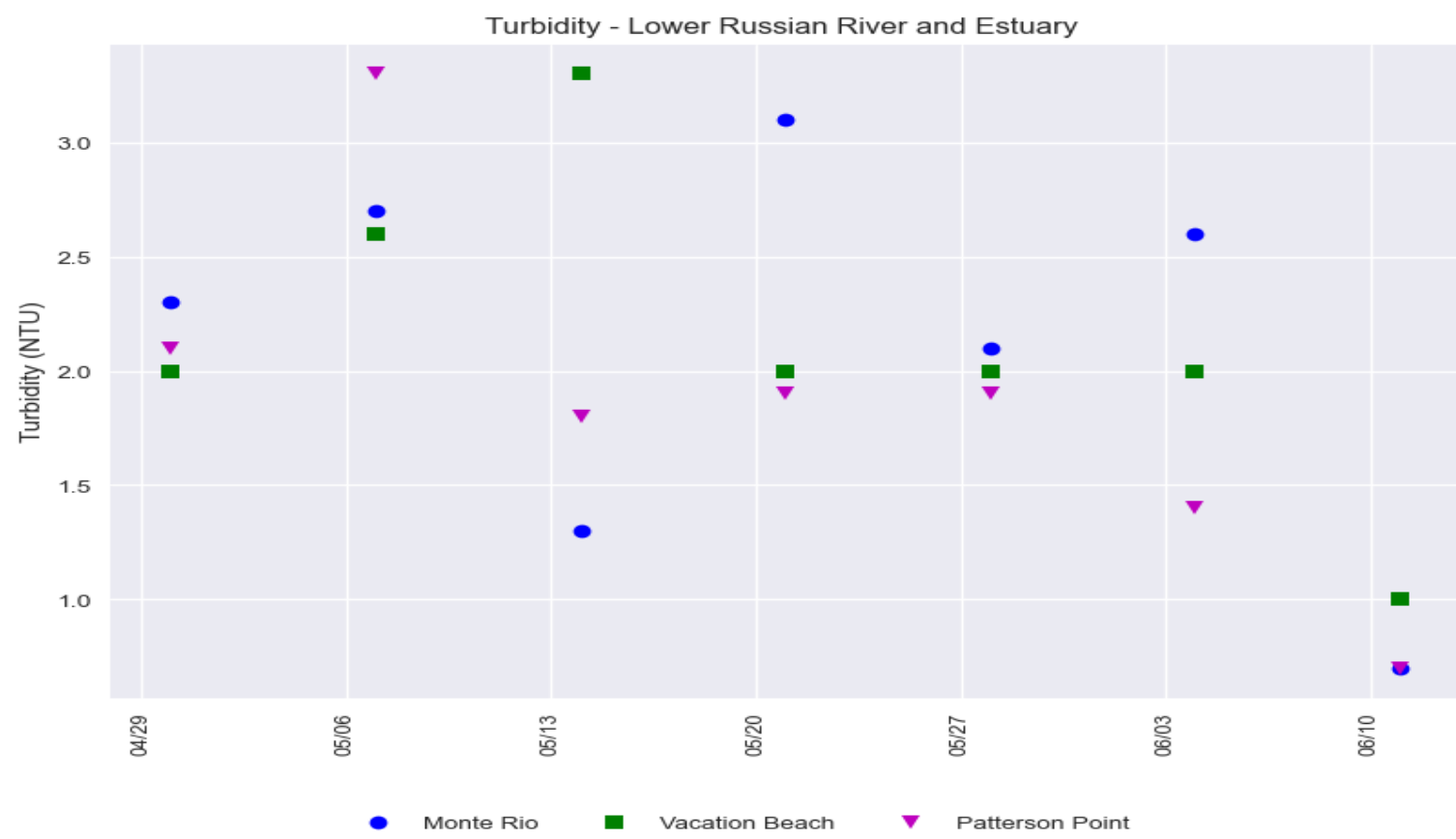
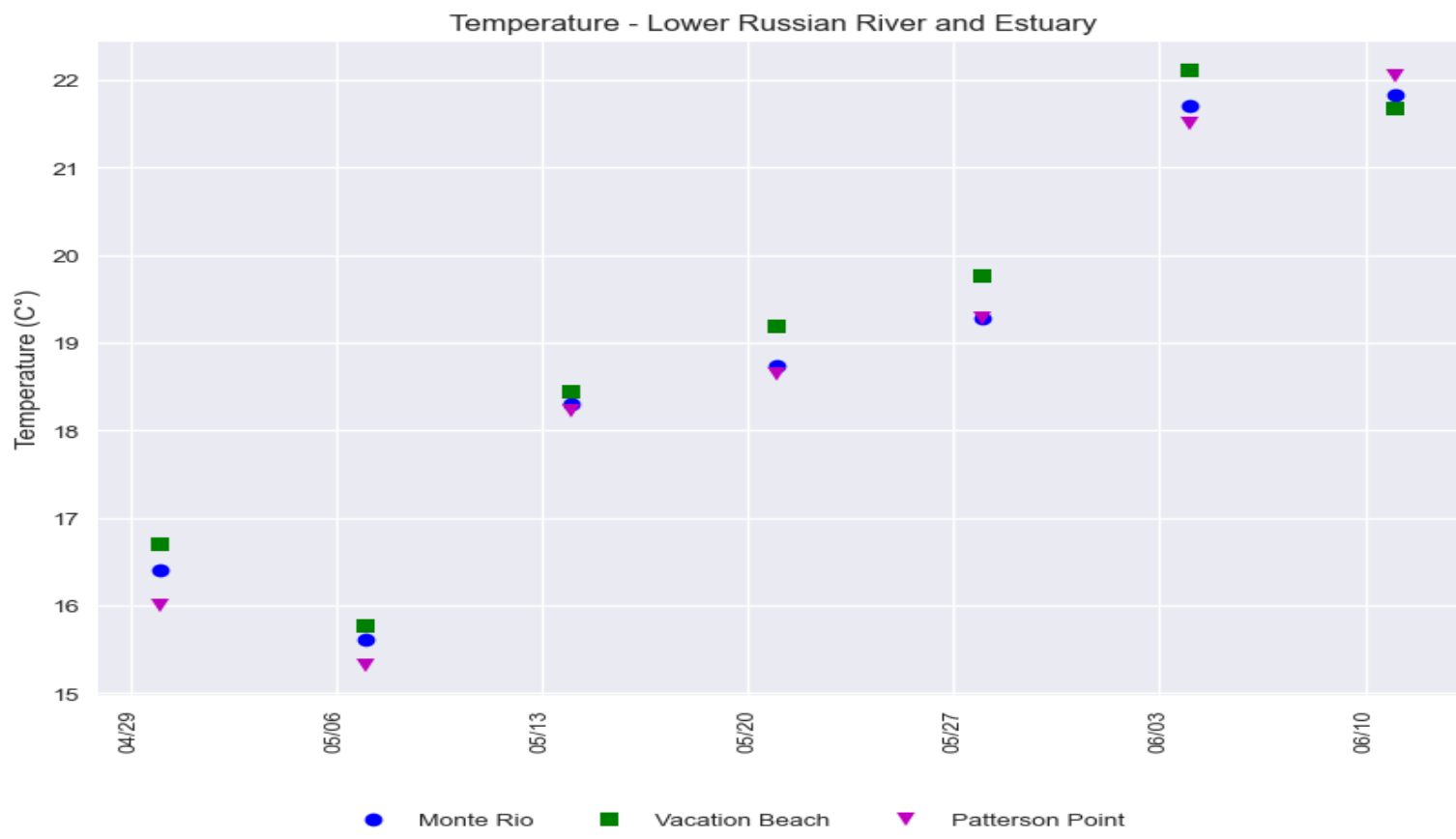
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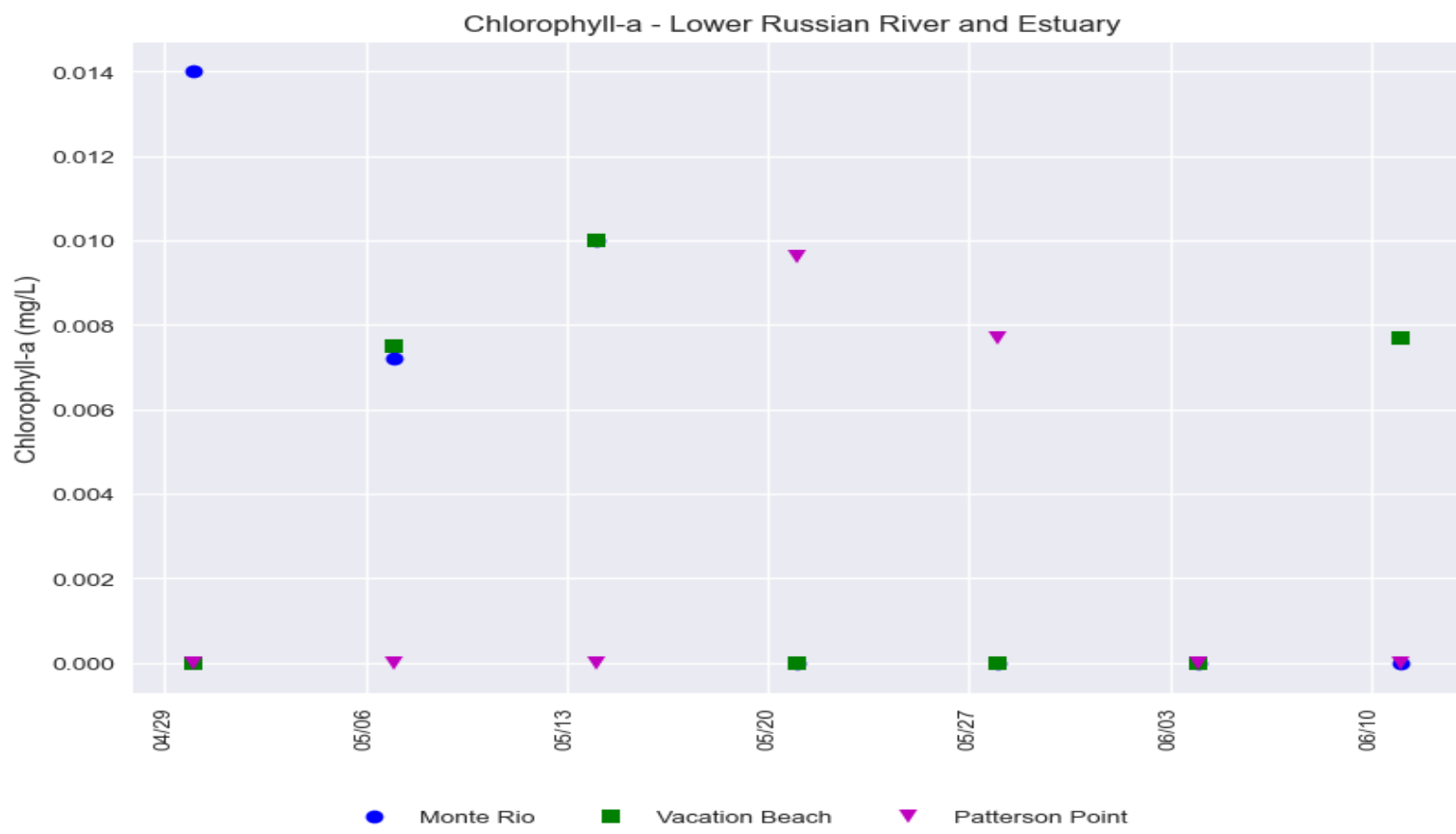
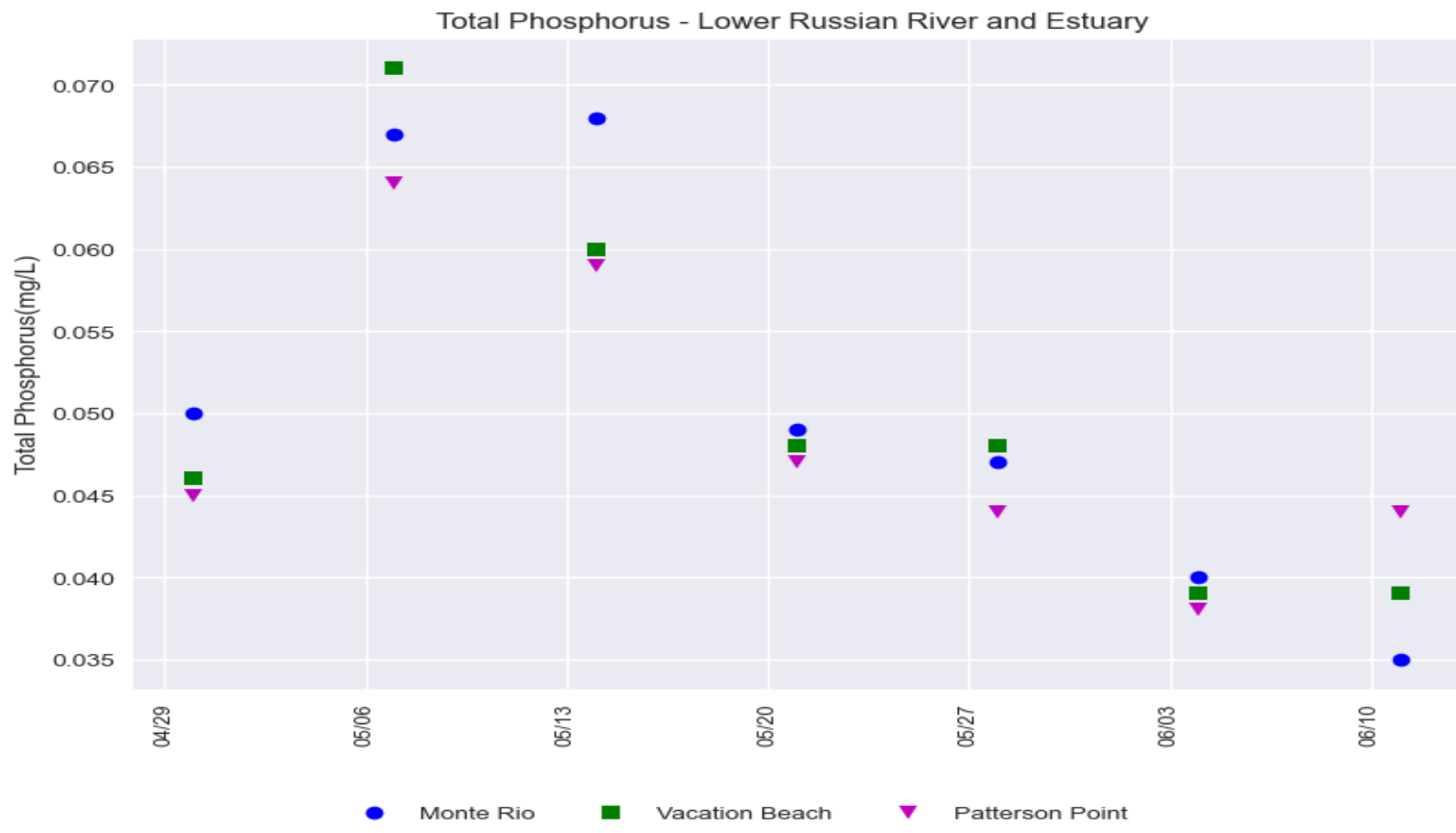
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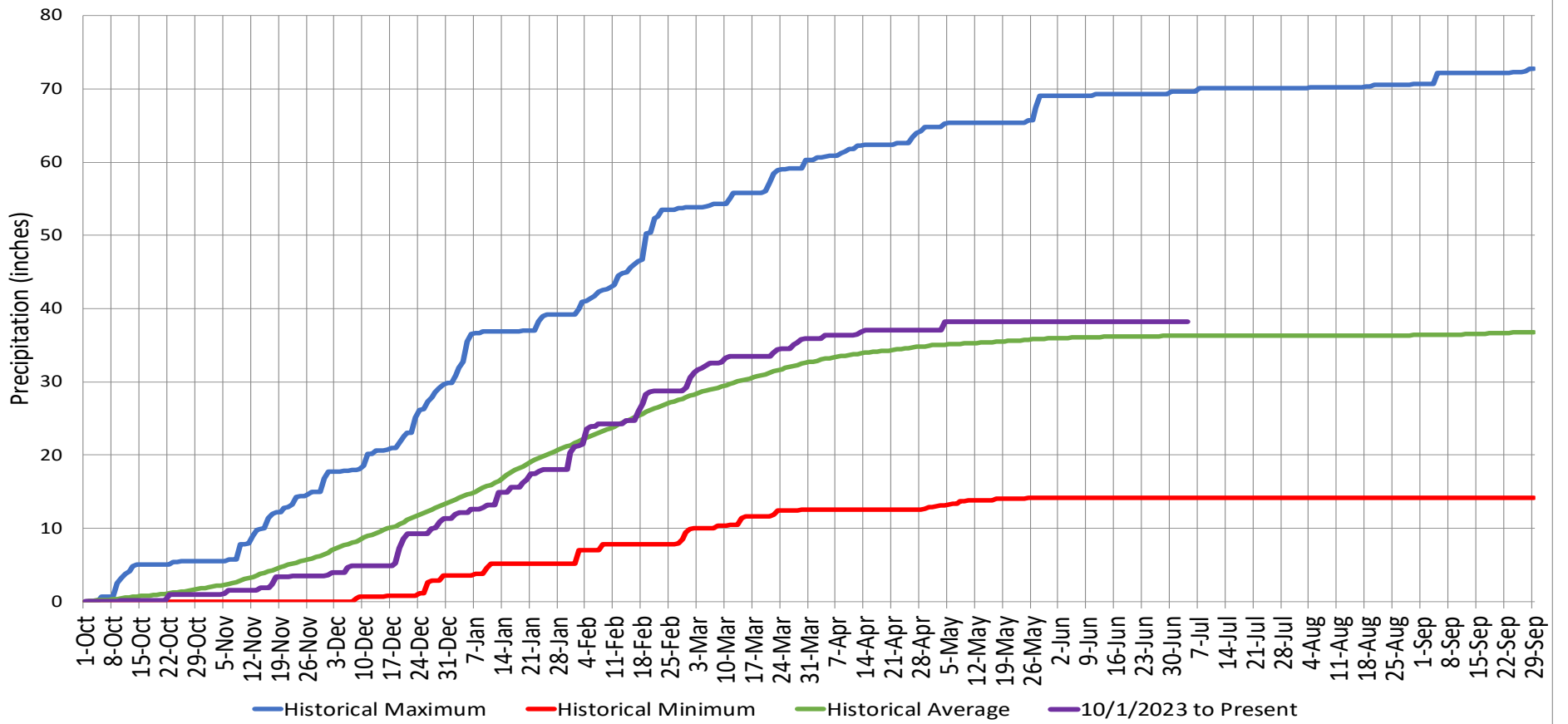


Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

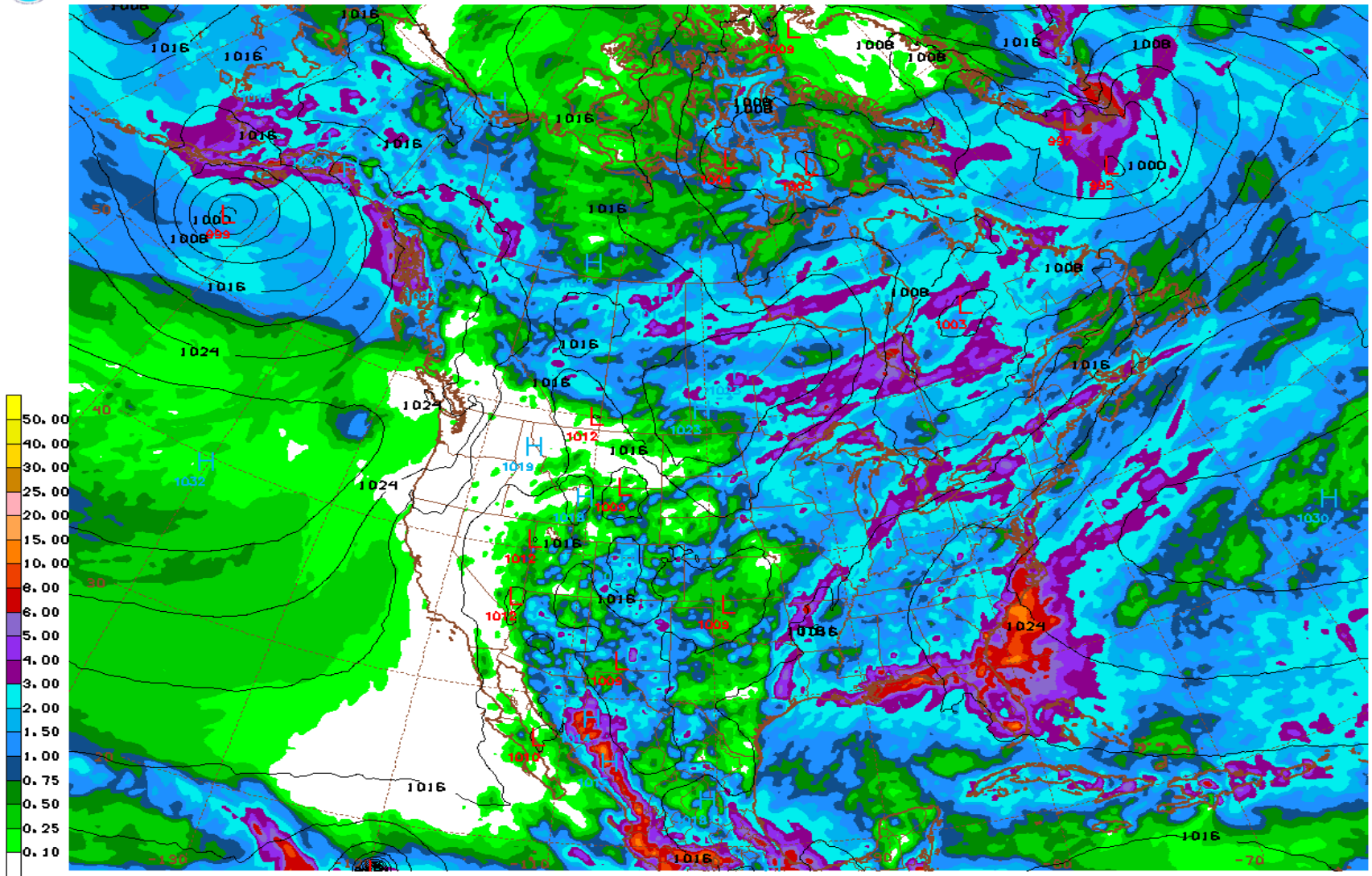
Date Range	Cumulative (inches)
Oct 1, 2023 - Jul 4, 2024	38.22
Last 7 Days*	0.00

Cumulative Precipitation Comparison of Current Year versus Historic Record



Global Forecast System Model 16-day Cumulative Precipitation Forecast

GFS 07/08/24 12UTC 384HR FCST VALID WED 07/24/24 12UTC NOAA/NWS/NCEP



GFS WED 240724/1200V384 EMSL (4MB), 384HR ACCUMULATED PRECIP (IN)

Date Range
Jul 8 - Jul 24, 2024

Forecasted Cumulative (inches)
0.00