



State Water Resources Control Board
 Temporary Urgency Change Orders (12/27/2023 & 6/6/2024)
 Russian River Hydrologic & Water Quality Report
 June 21, 2024 - June 27, 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).

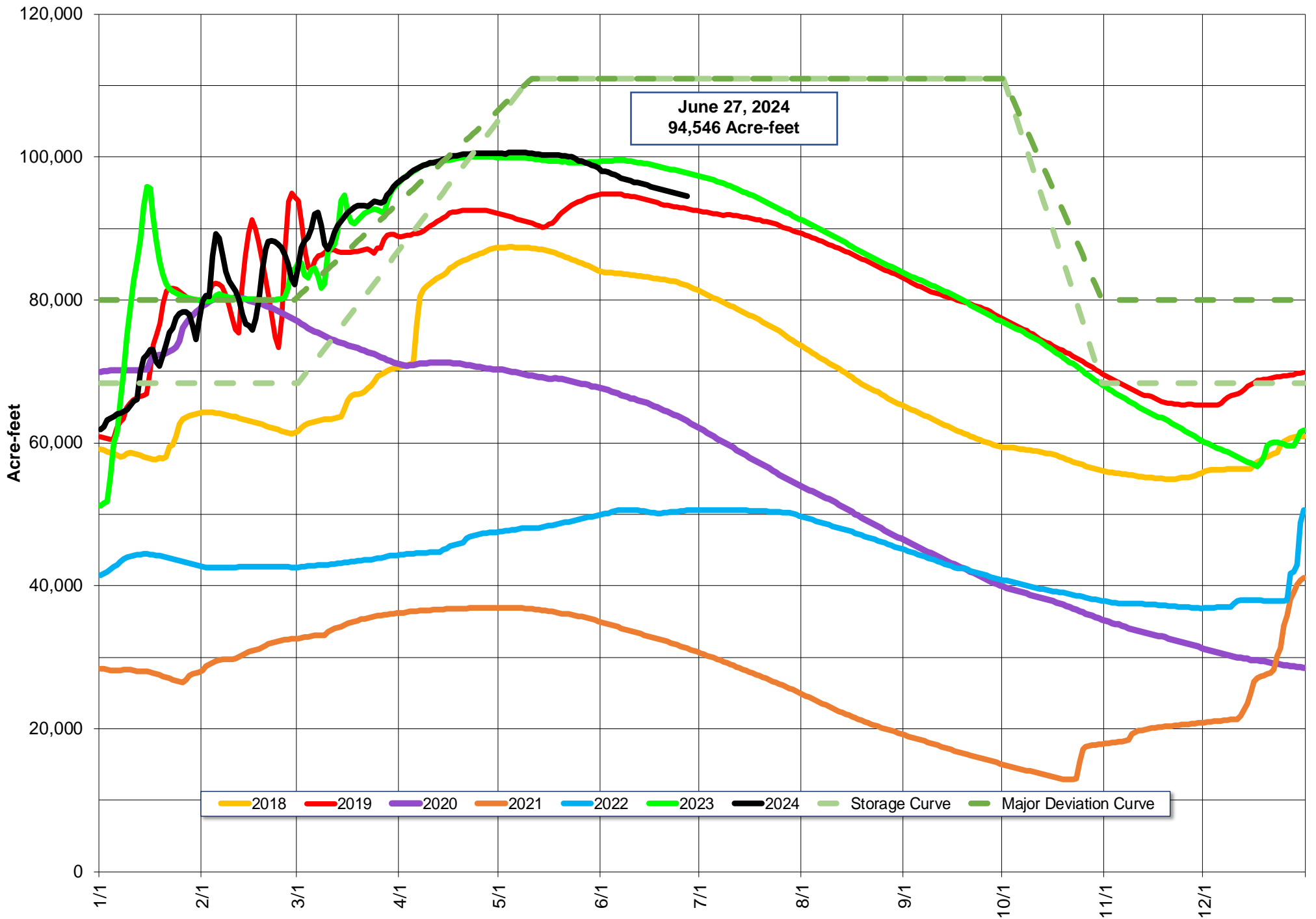
Instream Flow Requirements as of June 27, 2024

| 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



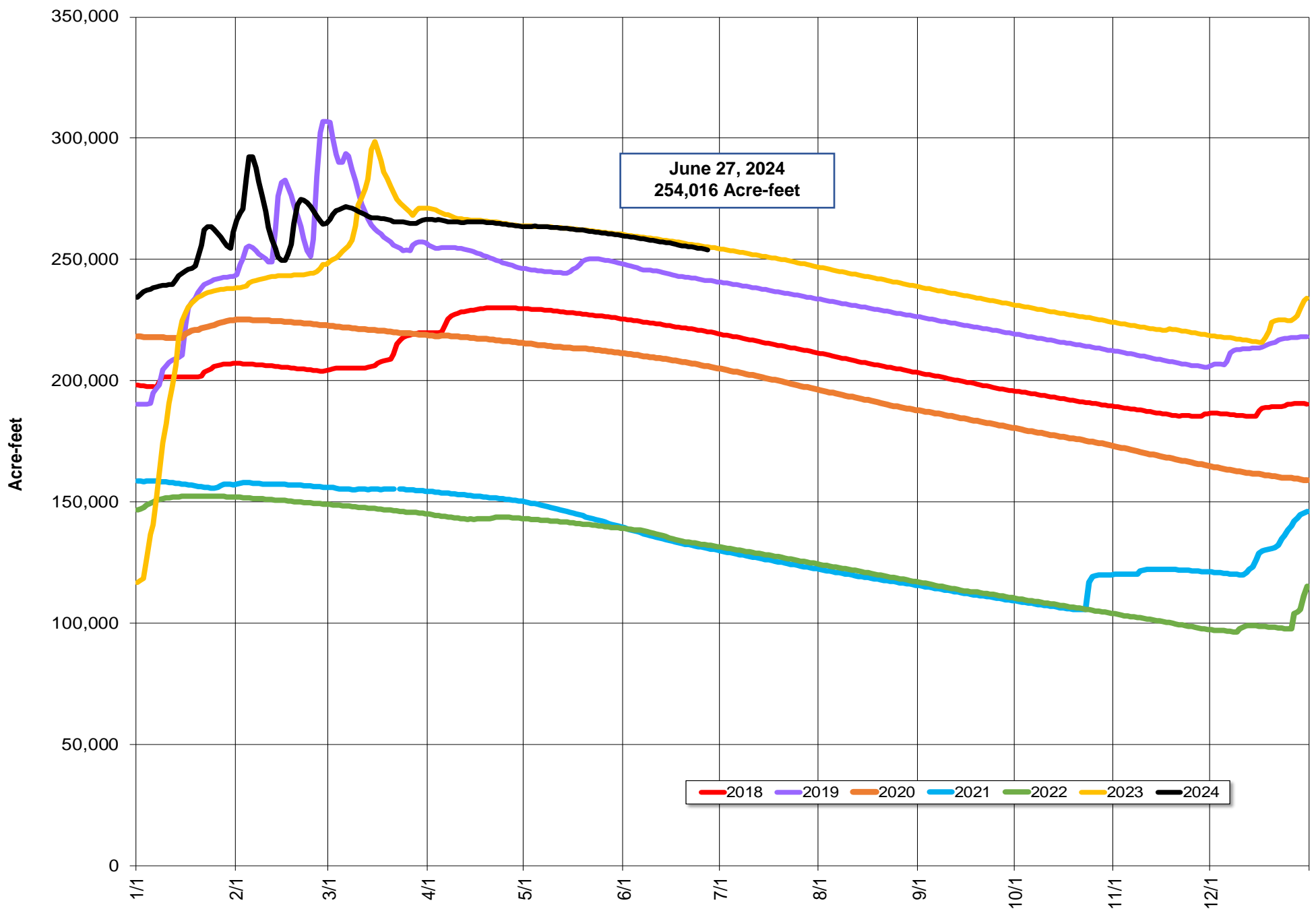
| | | | |
|-------------------------------|---------------|---------------|-------------|
| Storage (acre-feet) | June 27, 2024 | 94,546 | |
| Change in Storage (acre-feet) | Last 30 days | -4,494 | -150 |
| | Last 7 days | -673 | -96 |
| Daily Inflow (cfs) | Last 7 days | Min | 60 |
| | | Max | 126 |
| | | Mean | 92 |
| Release (cfs) | Last 7 days | Min | 144 |
| | | Max | 155 |
| | | Mean | 147 |

Lake Sonoma



Todd Schram, February 10, 2024

Lake Sonoma Storage 2018-2024



| | | | |
|-------------------------------|---------------|----------------|--------------------|
| Storage (acre-feet) | June 27, 2024 | 254,016 | |
| | | Total | Average Daily Rate |
| Change in Storage (acre-feet) | Last 30 days | -6,462 | -215 |
| | Last 7 days | -1,490 | -213 |
| Daily Inflow (cfs) | Last 7 days | Min | 0 |
| | | Max | 27 |
| | | Mean | 17 |
| Release (cfs) | Last 7 days | Min | 99 |
| | | Max | 100 |
| | | Mean | 100 |

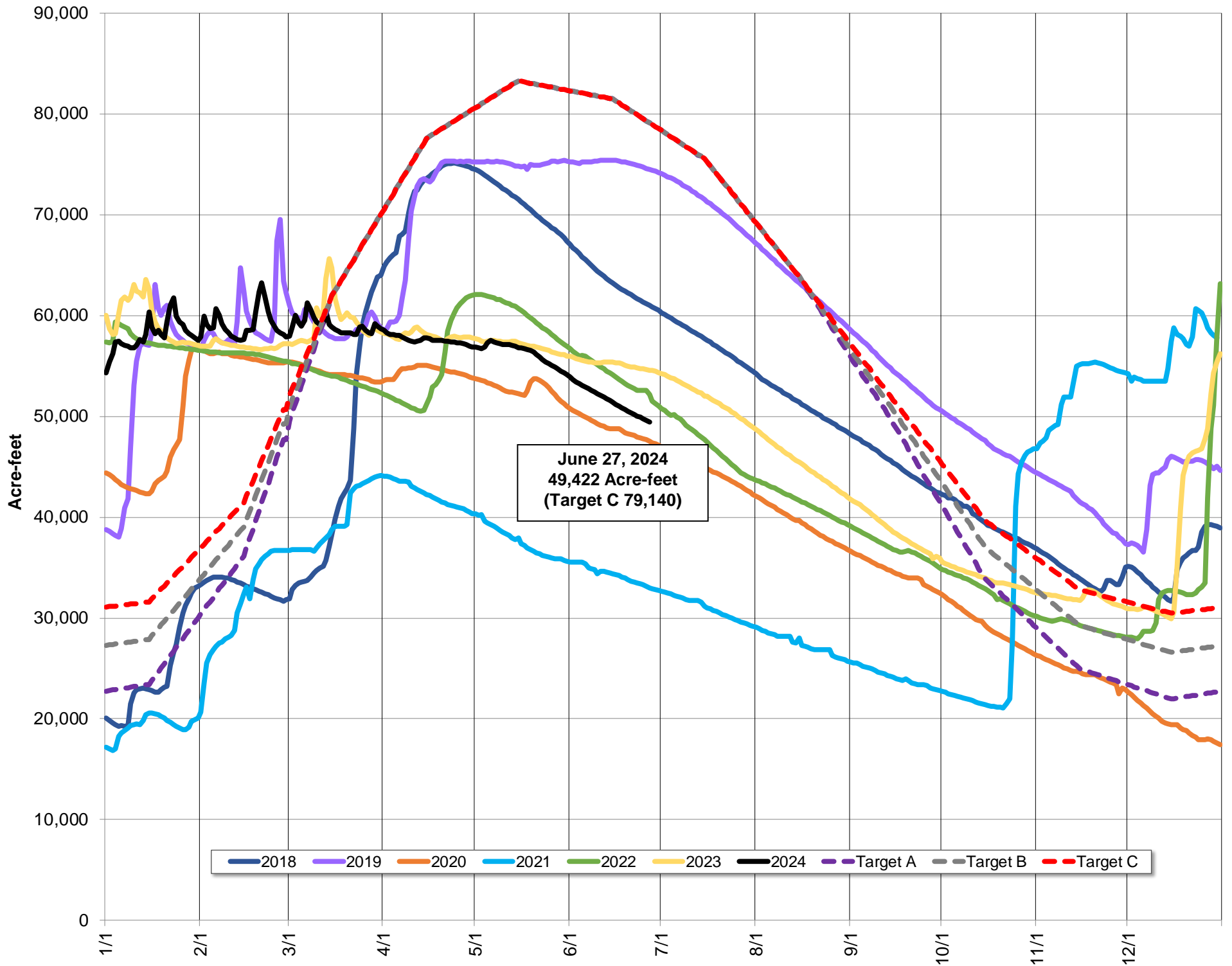
Potter Valley Project

| | | |
|---------------------|---------------|----|
| PVP Diversion (cfs) | June 27, 2024 | 94 |
|---------------------|---------------|----|

| Parameter | Date Range | Cumulative | Daily Average |
|---------------------|---------------------------------|------------|---------------|
| Inflow* (acre-feet) | October 1, 2023 - June 27, 2024 | 484,875 | 1,789 |
| | Last 7 days | 767 | 110 |

*Inflow calculation based on criteria established in D1610

Lake Pillsbury Storage 2018 - 2024 and Target Storage Scenarios

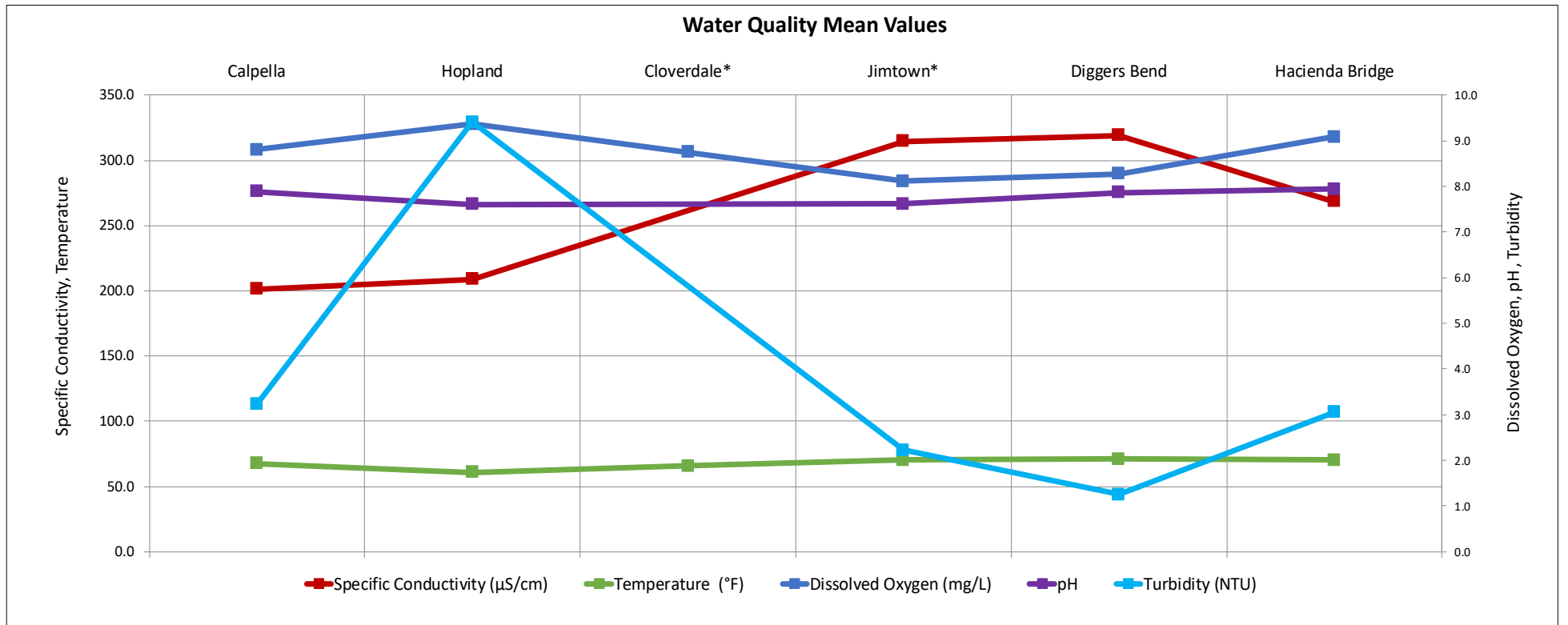


June 27, 2024
49,422 Acre-feet
(Target C 79,140)

Russian River Flows (June 21, 2024 - June 27, 2024)

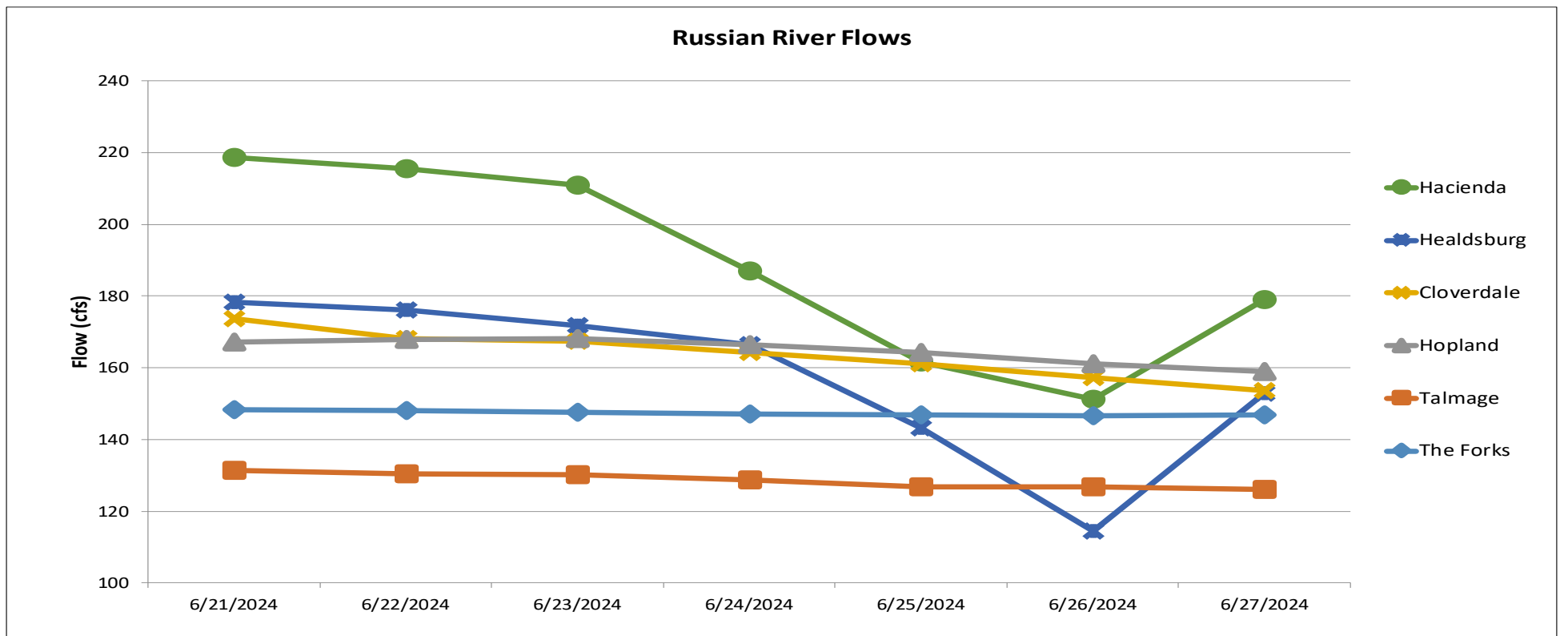
| Parameter | | Calpella | Hopland | Cloverdale* | Jimtown* | Diggers Bend | River Diversion System at Mirabel* | Hacienda Bridge | Johnsons Beach* |
|---------------------------------|------|---------------|---------------|---------------|---------------|---------------|------------------------------------|-----------------|-----------------|
| | | USGS 11461500 | USGS 11462500 | USGS 11463000 | USGS 11463682 | USGS 11463980 | SCWA | USGS 11467000 | SCWA |
| Temperature (°F) | Min | 62.6 | 57.7 | 61.5 | 65.3 | 65.8 | | 66.4 | |
| | Max | 71.4 | 63.7 | 70.3 | 75.2 | 76.1 | | 75.0 | |
| | Mean | 67.6 | 60.7 | 65.8 | 70.1 | 71.1 | | 70.3 | |
| Specific Conductivity (µS/cm) | Min | 195.0 | 206.0 | | 312.0 | 316.0 | | 257.0 | |
| | Max | 209.0 | 213.0 | | 317.0 | 322.0 | | 275.0 | |
| | Mean | 201.4 | 209.0 | | 314.5 | 319.2 | | 268.6 | |
| Dissolved Oxygen (mg/L) | Min | 8.2 | 8.4 | 8.0 | 6.8 | 6.9 | | 7.6 | |
| | Max | 9.6 | 10.7 | 9.8 | 9.9 | 9.9 | | 10.4 | |
| | Mean | 8.8 | 9.4 | 8.8 | 8.1 | 8.3 | | 9.1 | |
| Dissolved Oxygen (% Saturation) | Min | 91.4 | 84.2 | 84.3 | 74.9 | 75.7 | | 84.4 | |
| | Max | 105.6 | 110.0 | 107.4 | 116.3 | 116.0 | | 120.3 | |
| | Mean | 96.5 | 94.9 | 94.0 | 91.6 | 94.4 | | 102.6 | |
| pH | Min | 7.7 | 7.4 | | 7.5 | 7.6 | | 7.7 | |
| | Max | 8.2 | 8.0 | | 7.8 | 8.1 | | 8.2 | |
| | Mean | 7.9 | 7.6 | | 7.6 | 7.9 | | 7.9 | |
| Turbidity (NTU) | Min | 2.1 | 8.4 | | 1.0 | 0.7 | | 1.2 | |
| | Max | 4.4 | 11.8 | | 3.6 | 2.6 | | 4.5 | |
| | Mean | 3.2 | 9.4 | | 2.2 | 1.2 | | 3.1 | |

*Station operated seasonally



| Gage | 24-hr Average Flow (cfs) | | | | | | |
|-----------------------------|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | Jun 21, 2024 | Jun 22, 2024 | Jun 23, 2024 | Jun 24, 2024 | Jun 25, 2024 | Jun 26, 2024 | Jun 27, 2024 |
| The Forks* | 148 | 148 | 148 | 147 | 147 | 147 | 147 |
| Talmage USGS 11462080 | 132 | 130 | 130 | 129 | 127 | 127 | 126 |
| Hopland USGS 11462500 | 167 | 168 | 168 | 167 | 164 | 161 | 159 |
| Cloverdale USGS 11463000 | 174 | 168 | 167 | 164 | 161 | 157 | 154 |
| Healdsburg USGS 11464000 | 178 | 176 | 172 | 167 | 143 | 114 | 153 |
| Hacienda USGS 11467000 | 219 | 216 | 211 | 187 | 162 | 151 | 179 |

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

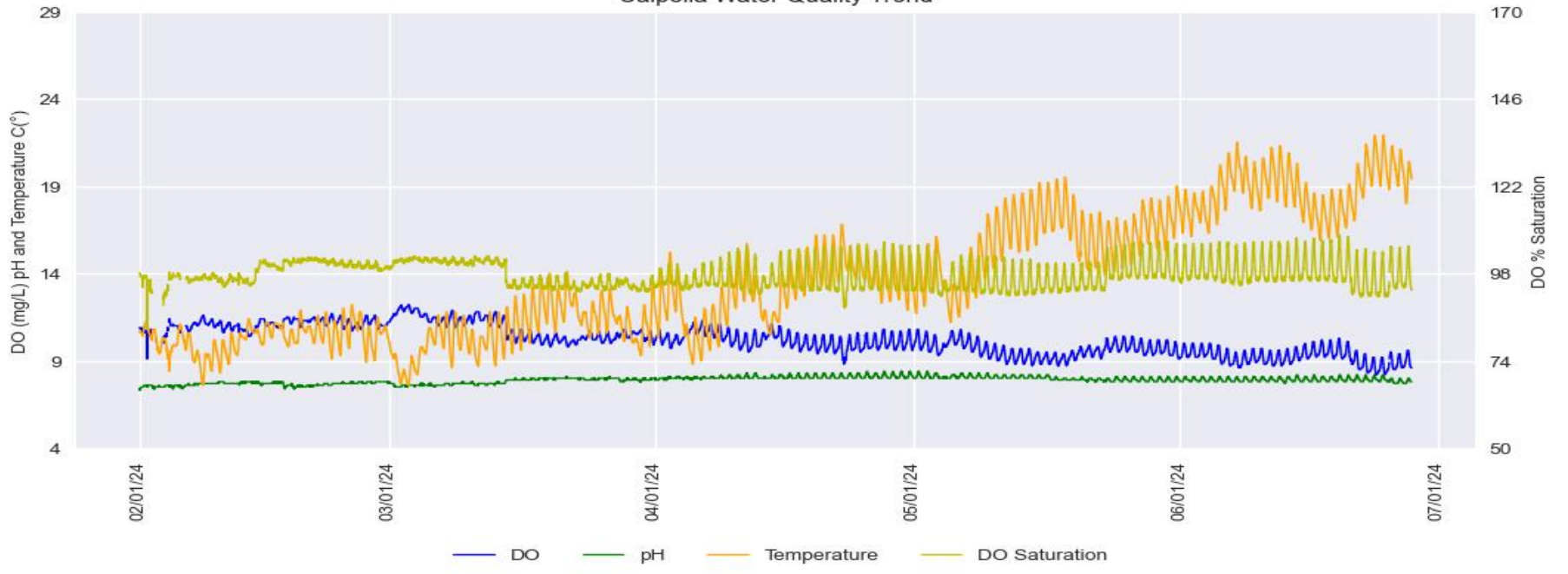


Russian River Water Quality February 1, 2024 – June 27, 2024

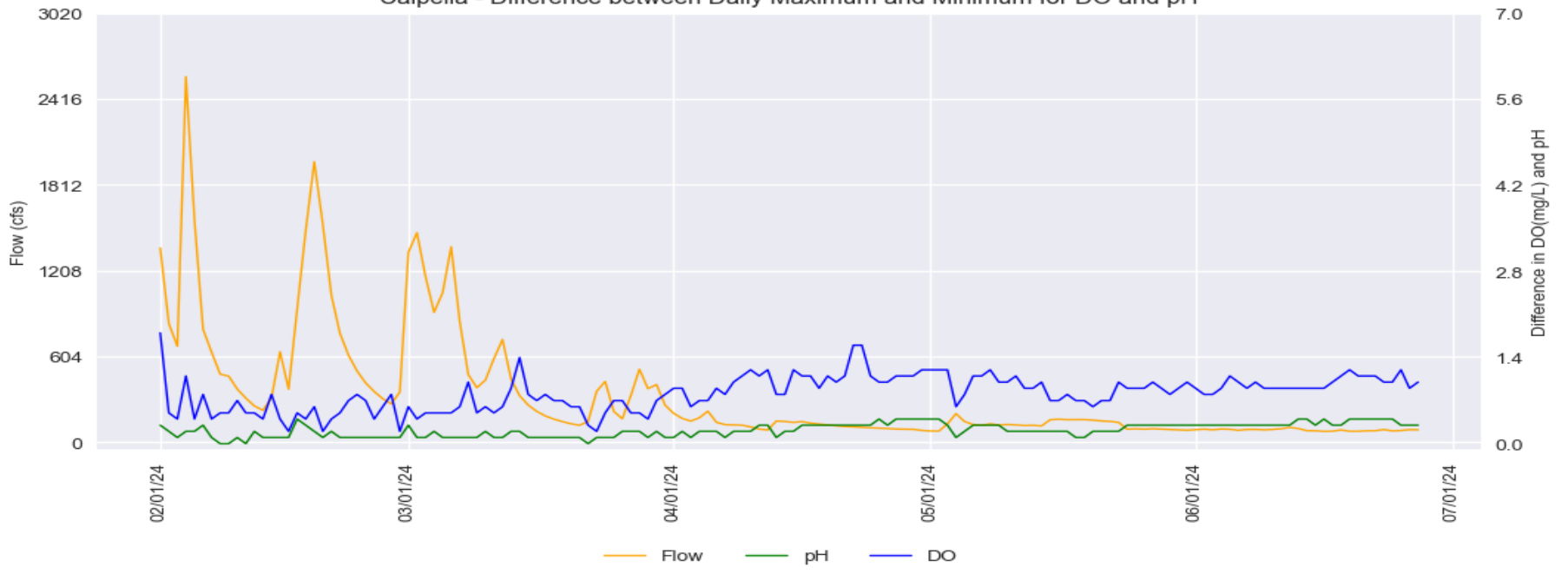
Provisional Data Subject to Revision

Calpella

Calpella Water Quality Trend

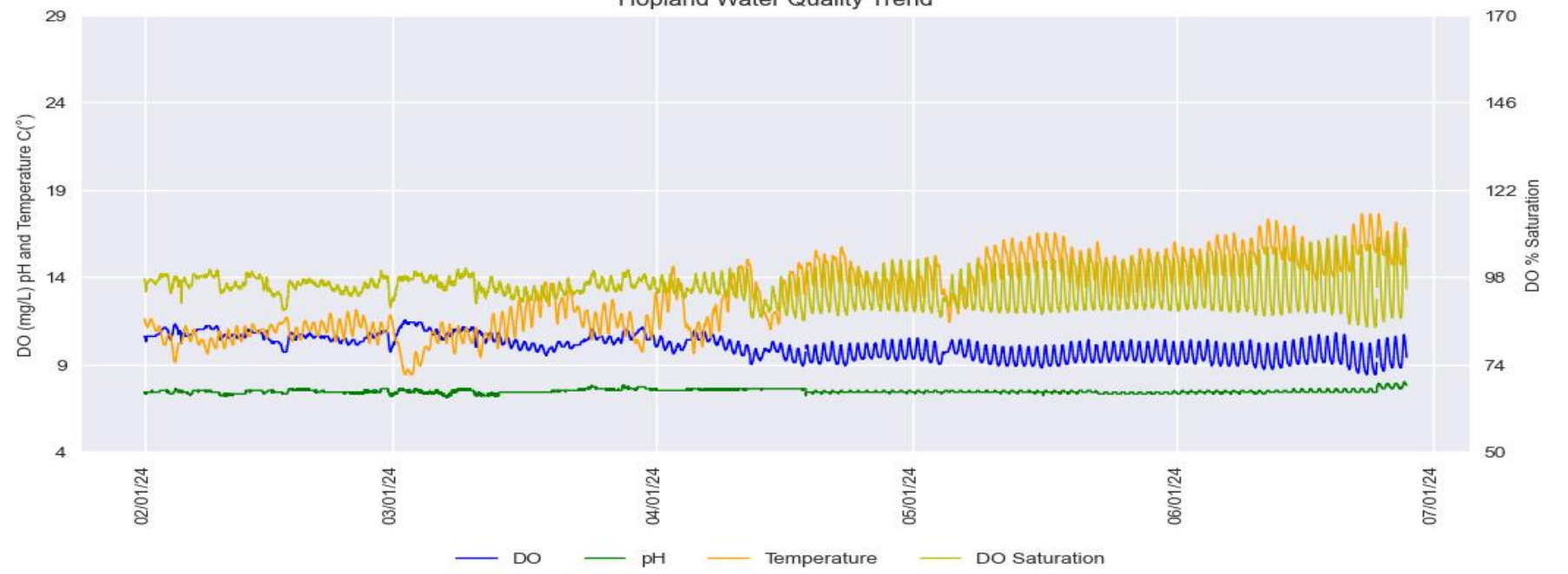


Calpella - Difference between Daily Maximum and Minimum for DO and pH

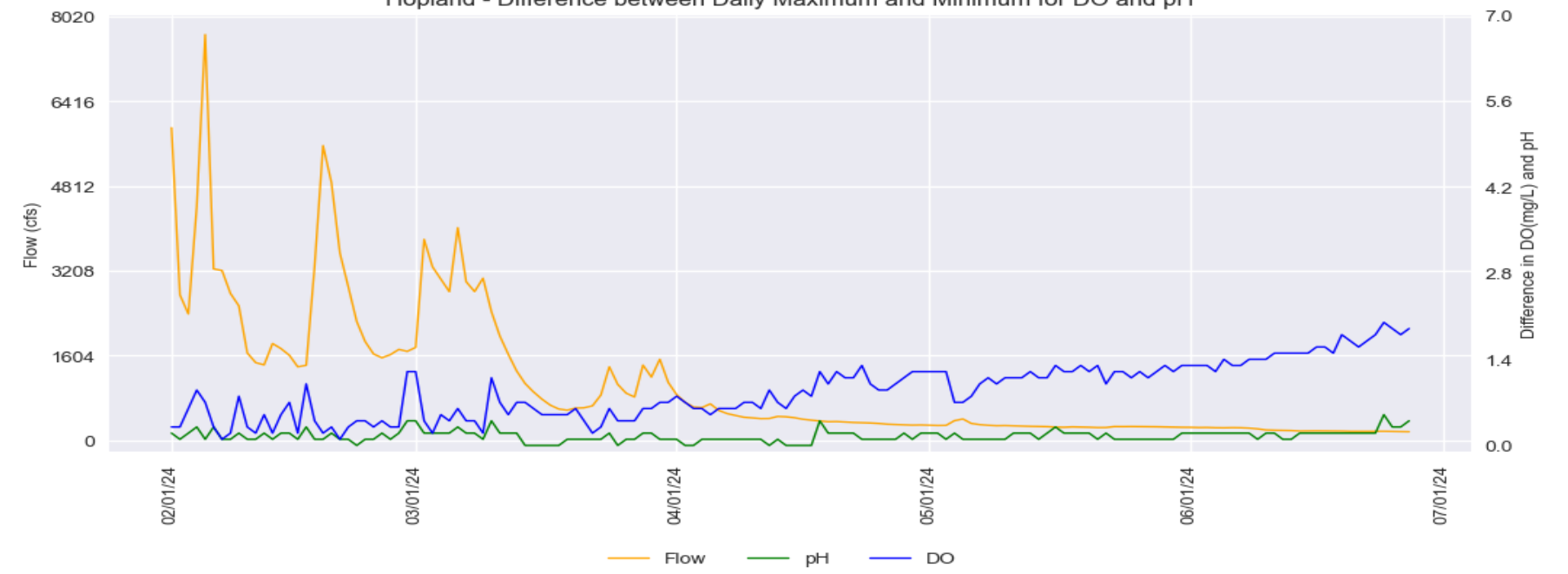


Hopland

Hopland Water Quality Trend



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

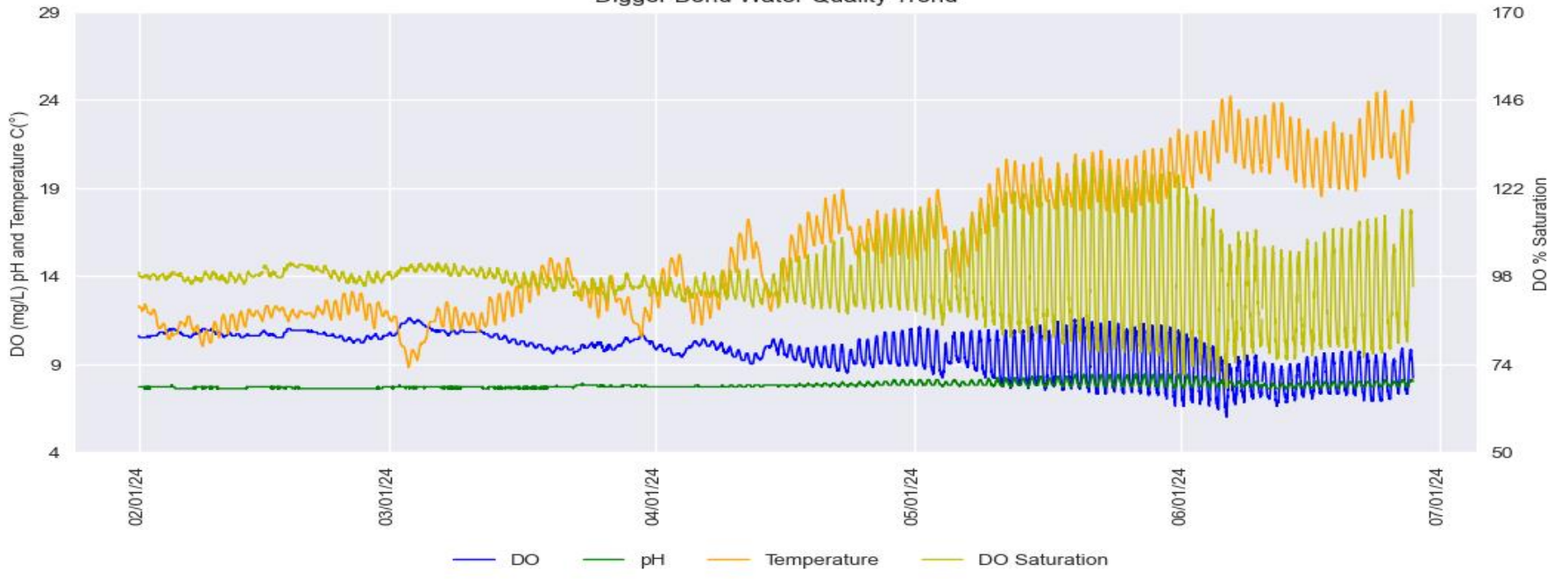


Russian River Water Quality February 1, 2024 – June 27, 2024

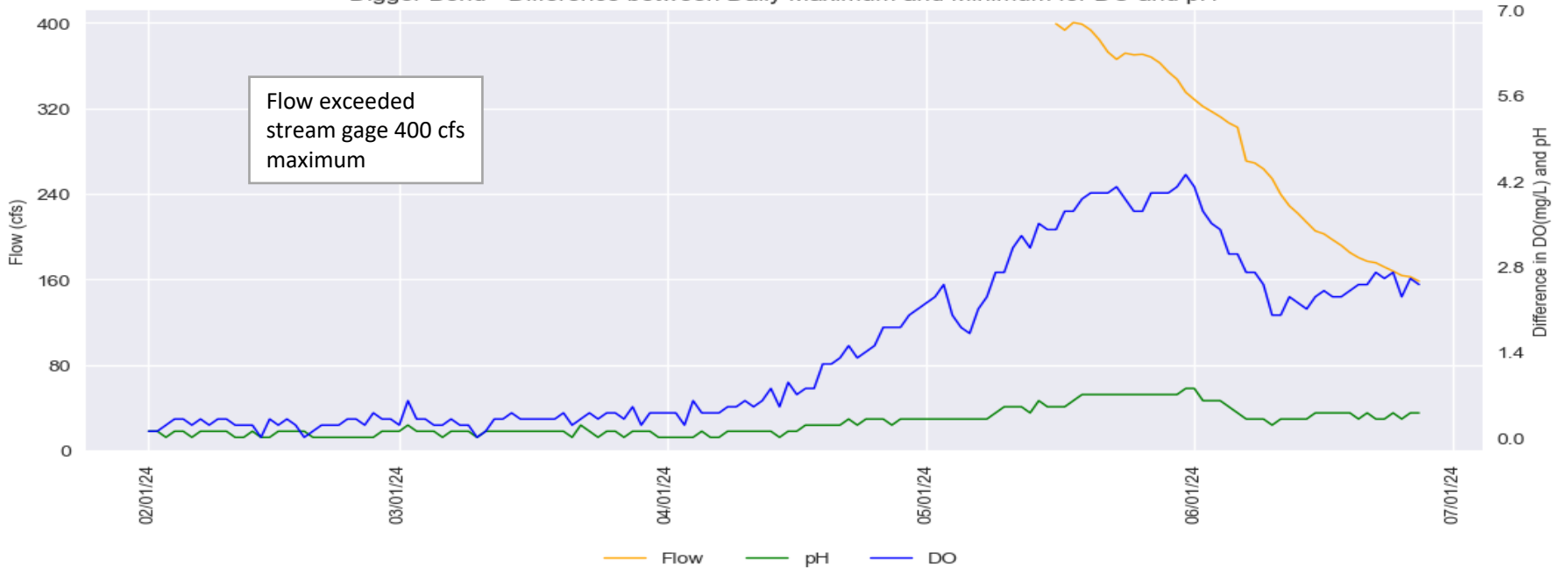
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Digger Bend

Digger Bend Water Quality Trend

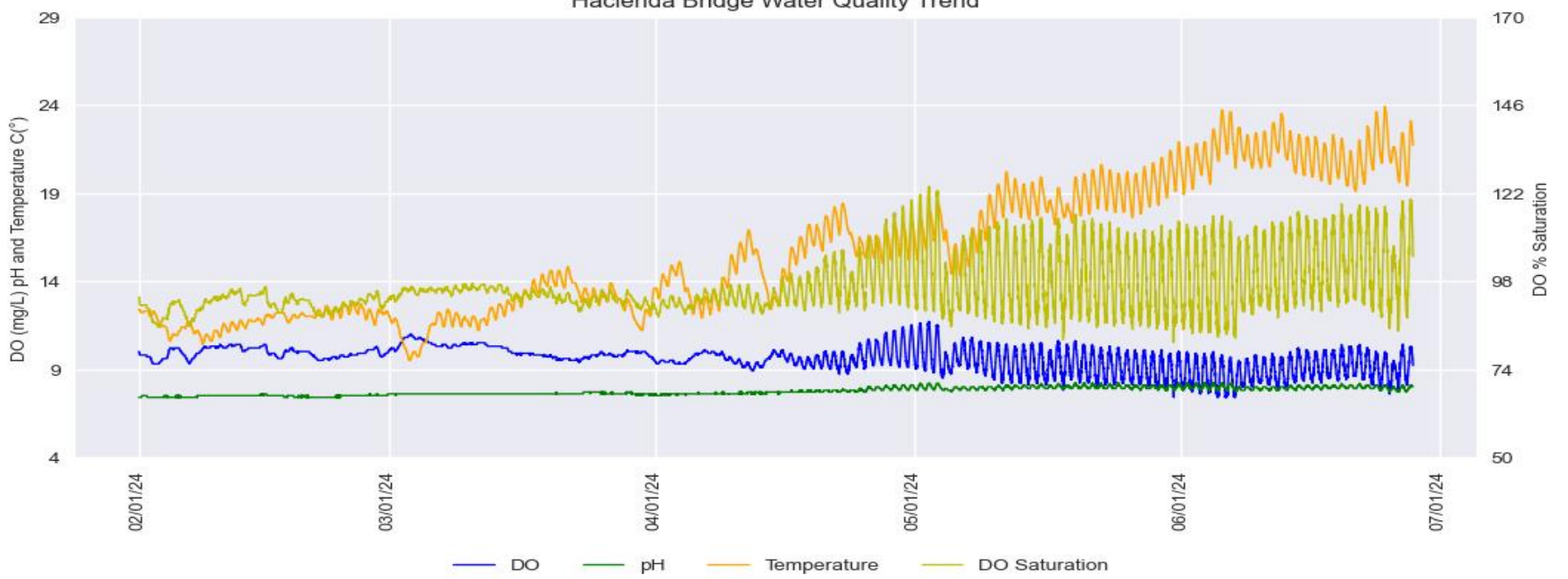


Digger Bend - Difference between Daily Maximum and Minimum for DO and pH

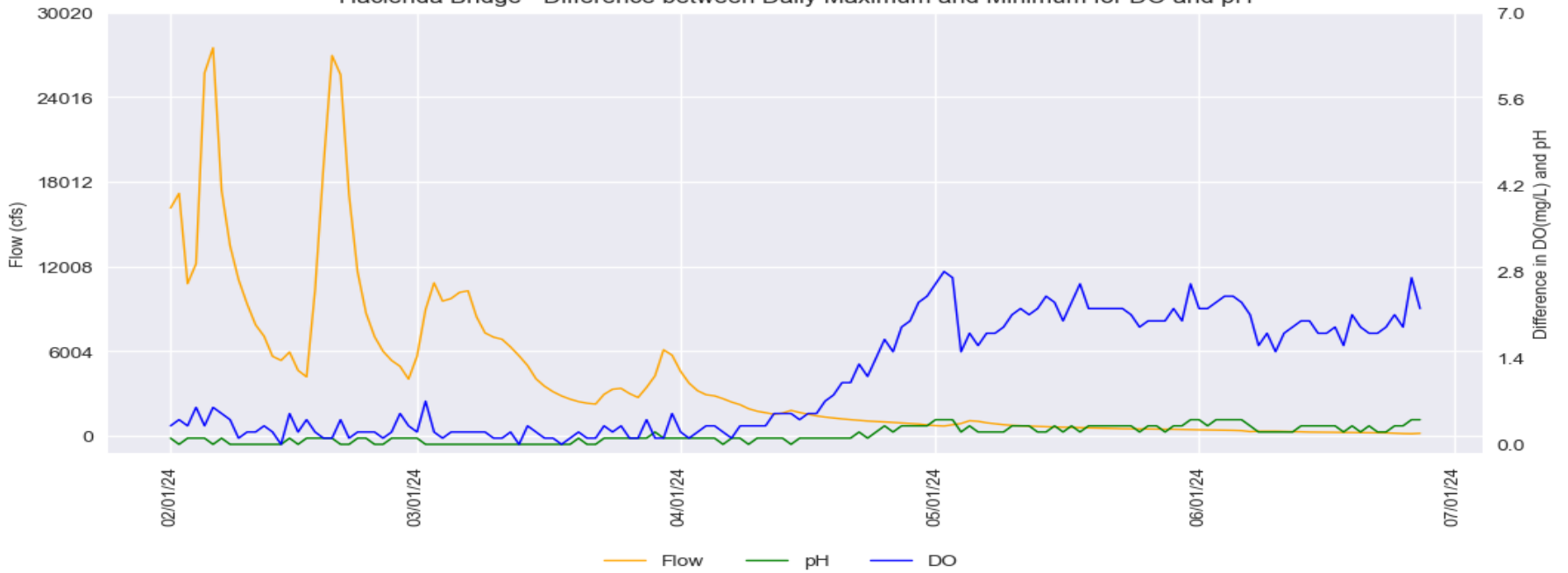


Hacienda Bridge

Hacienda Bridge Water Quality Trend



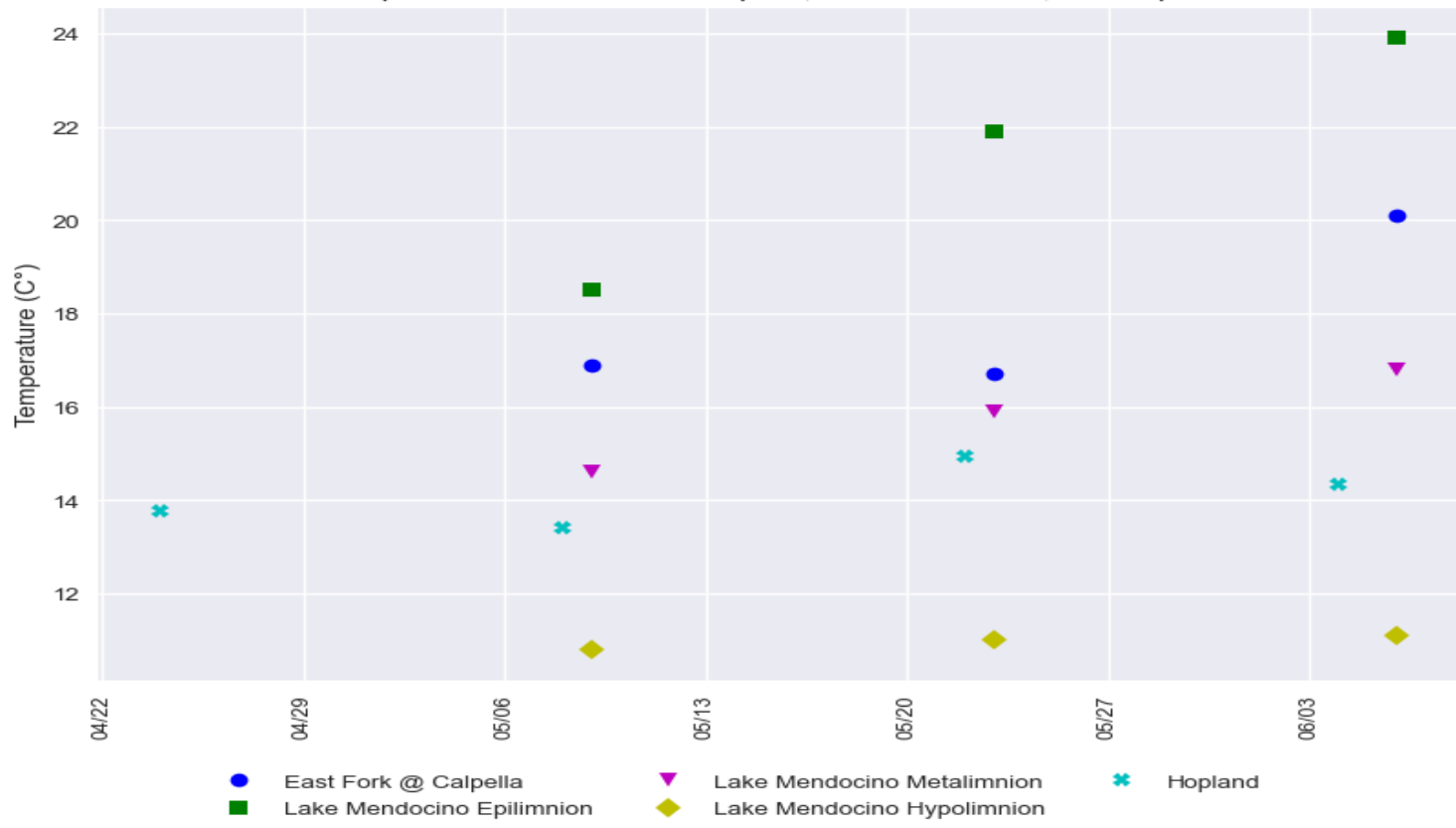
Hacienda Bridge - Difference between Daily Maximum and Minimum for DO and pH



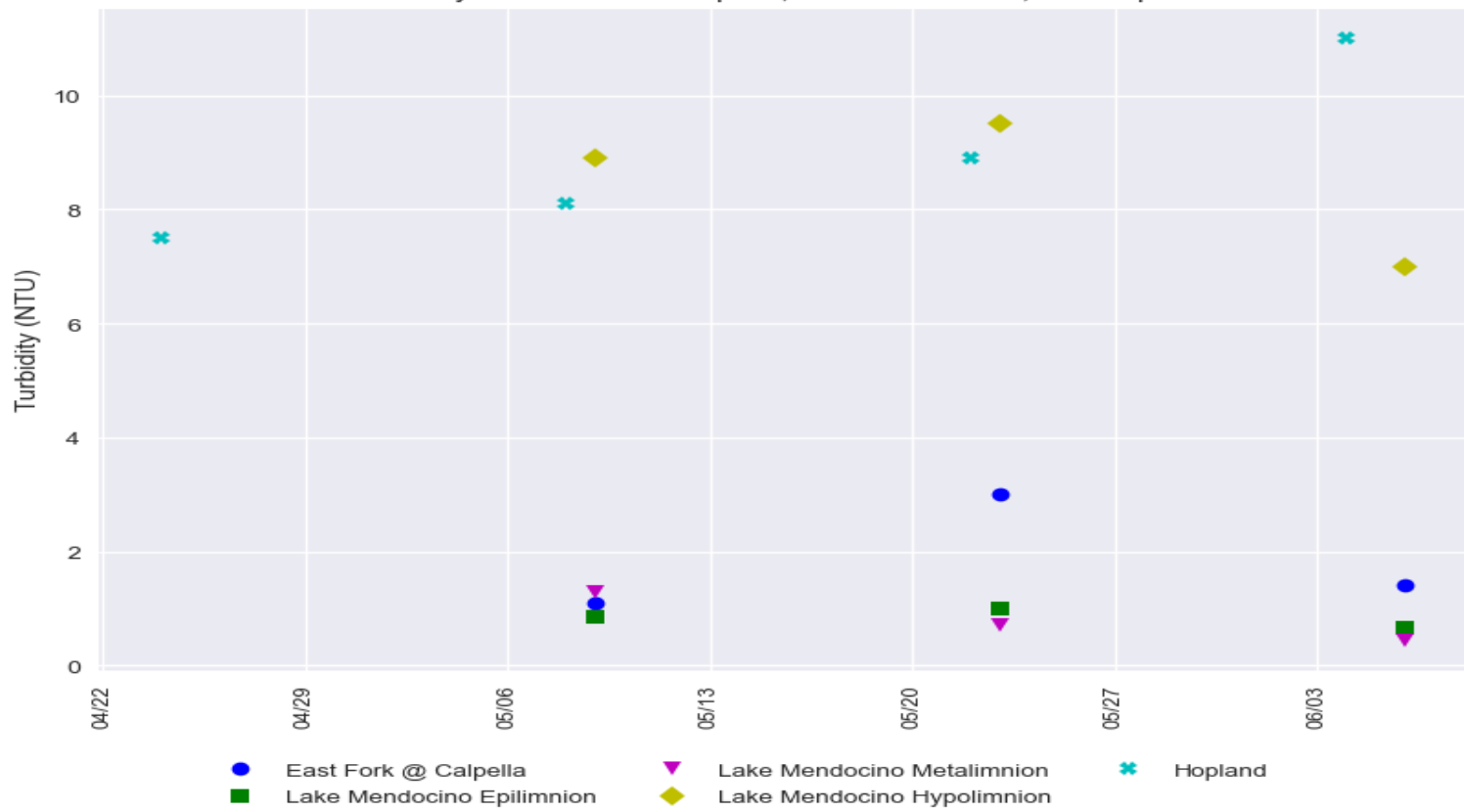
Russian River Water Quality Grab Samples

Provisional Data Subject to Revision

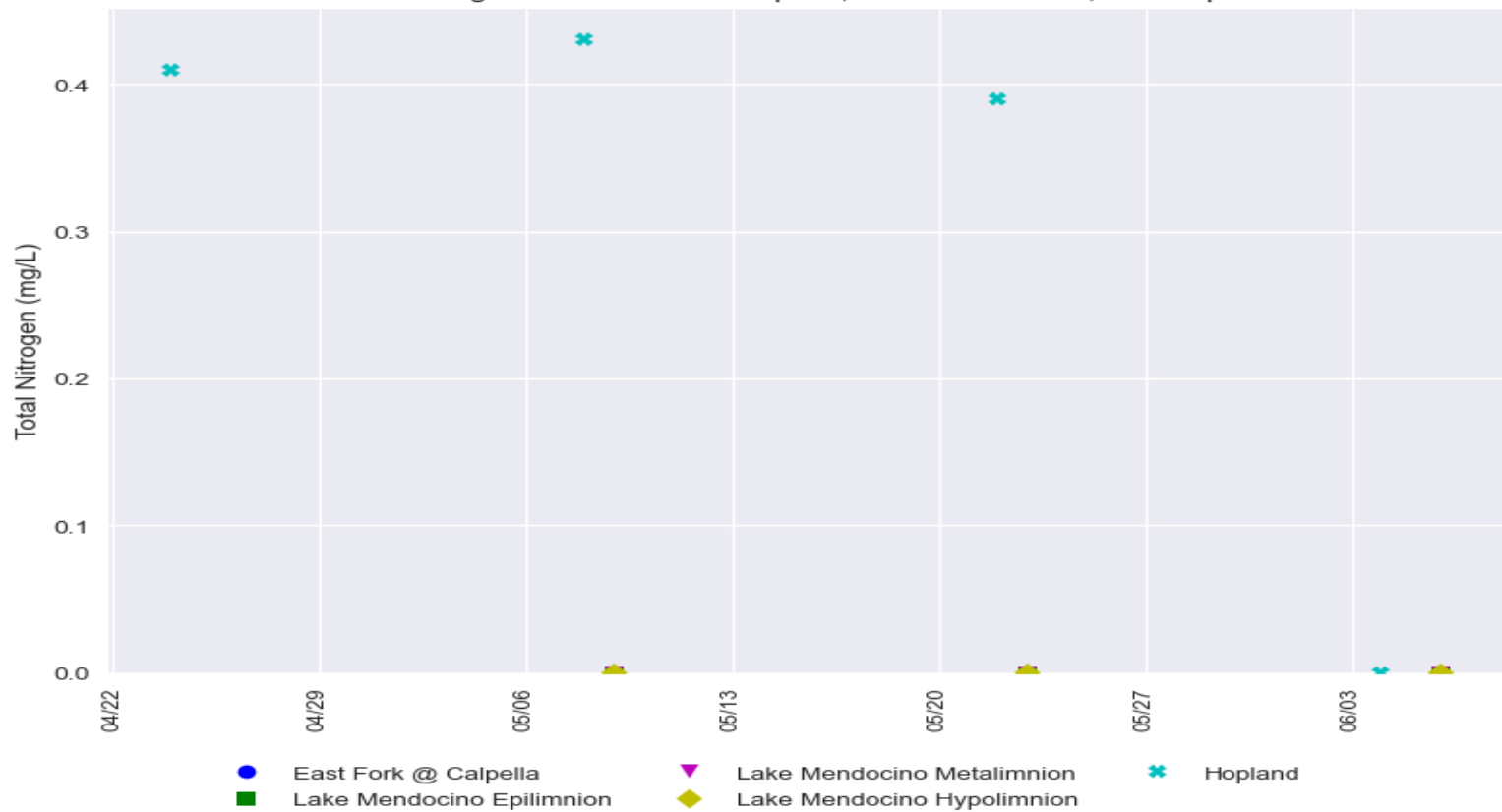
Temperature - East Fork at Calpella, Lake Mendocino, and Hopland



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

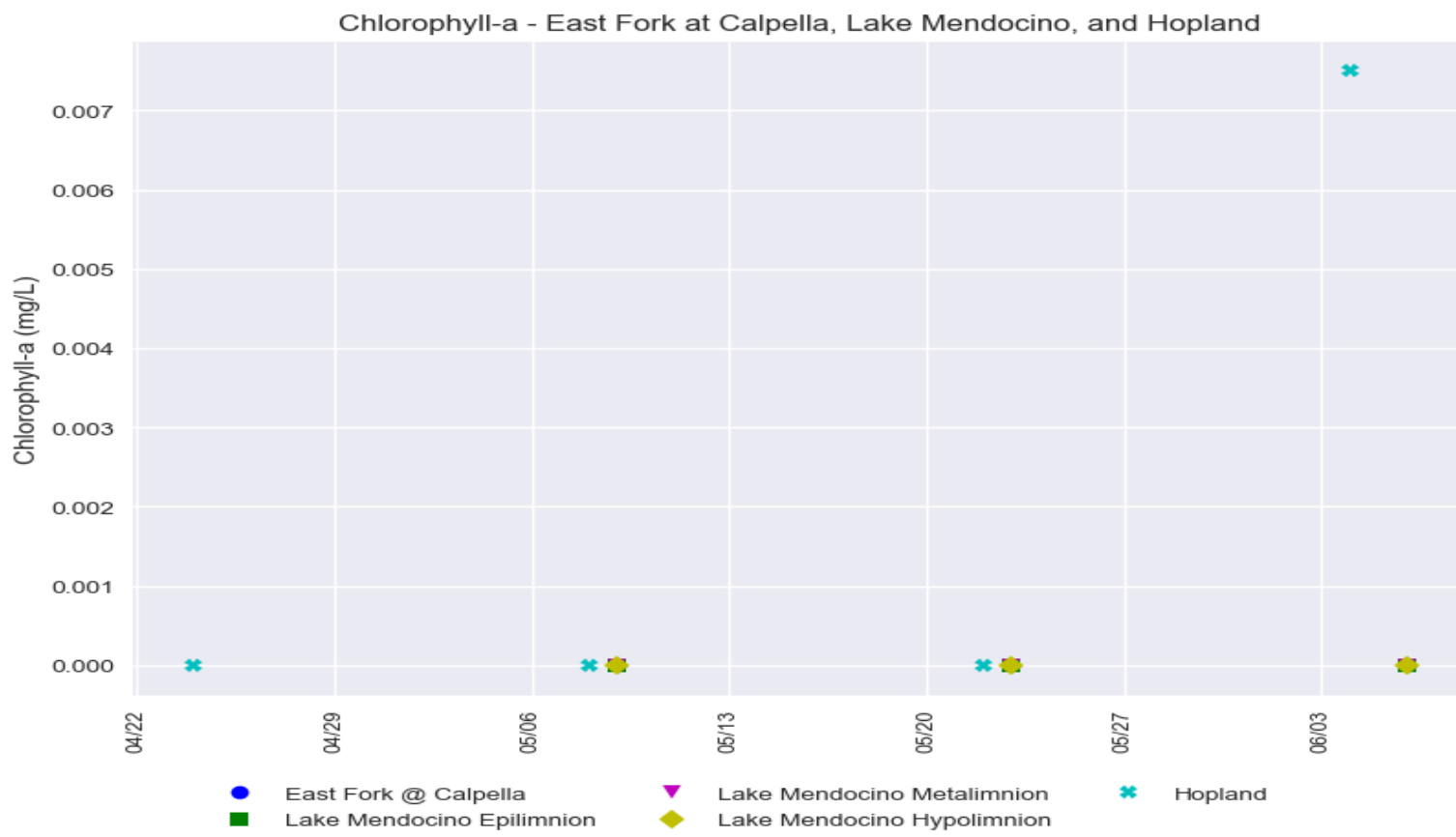
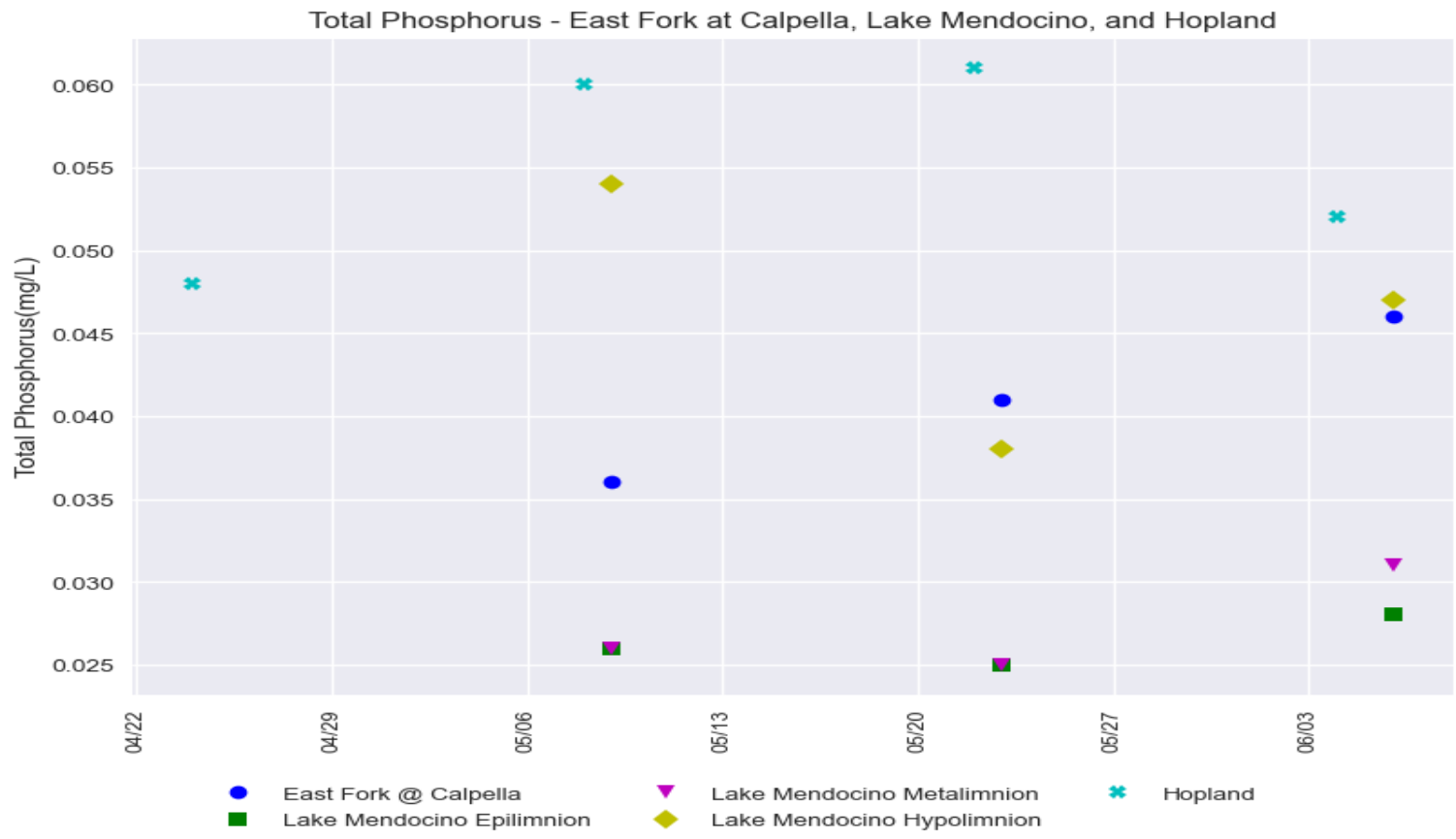


Total Nitrogen - East Fork at Calpella, Lake Mendocino, and Hopland



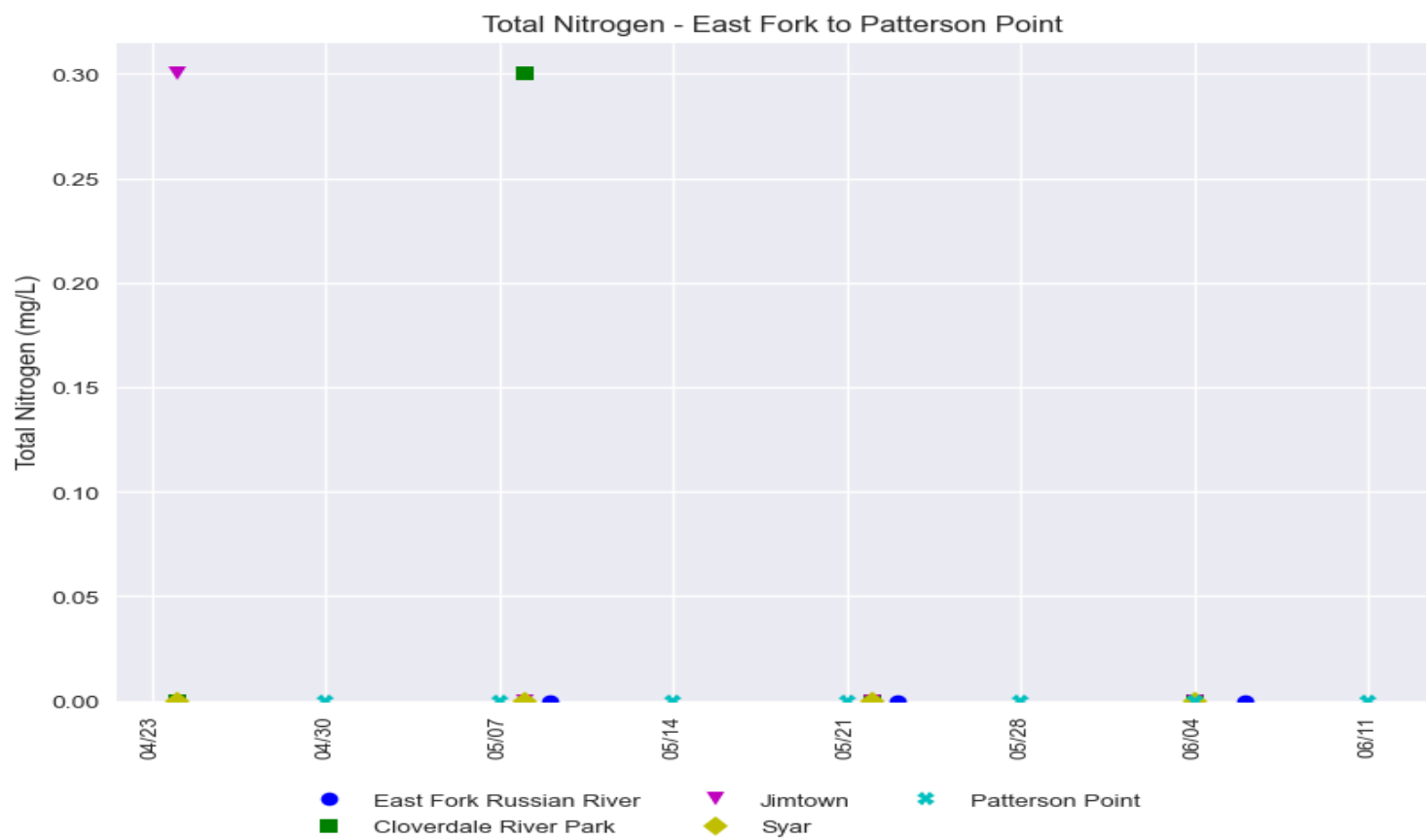
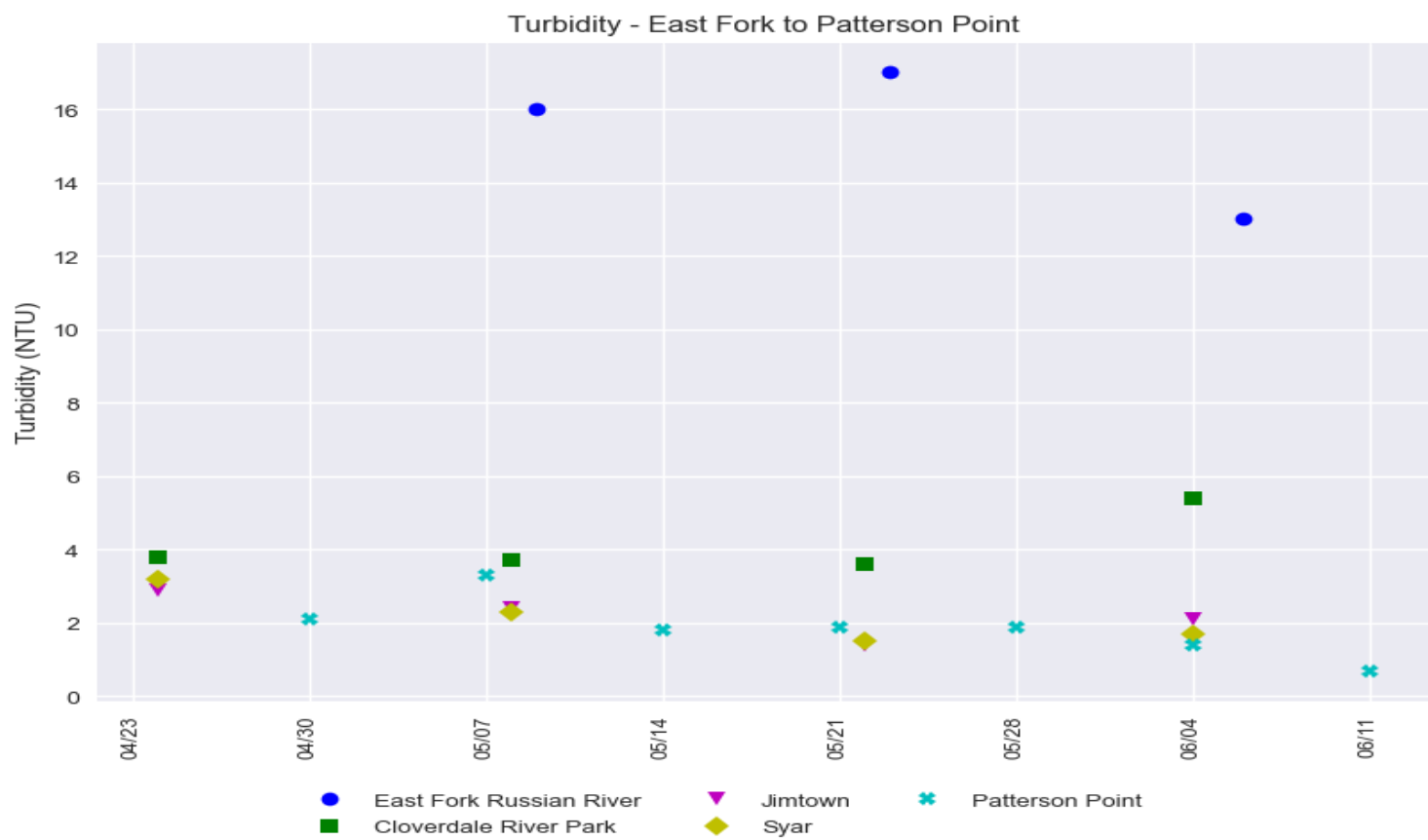
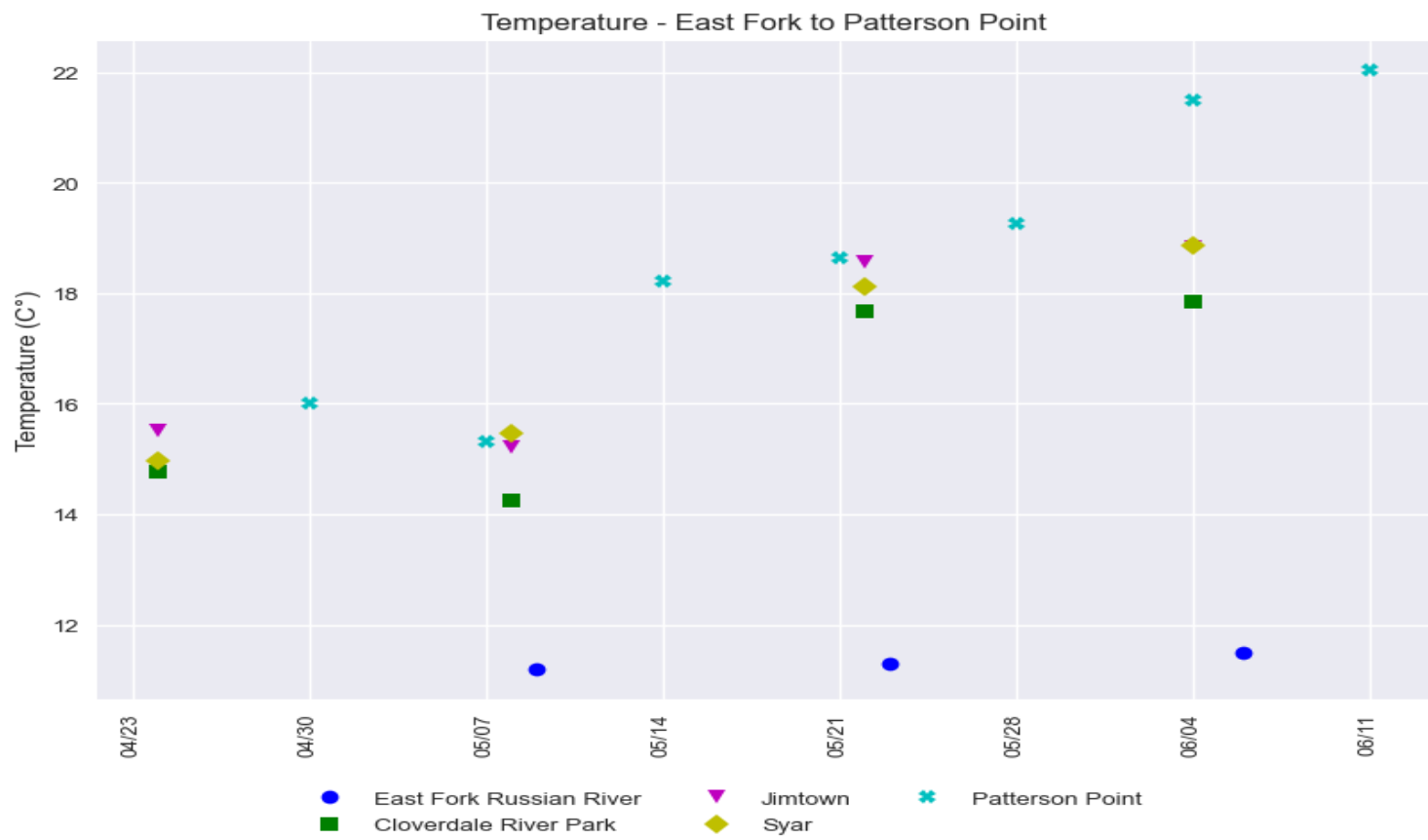
Russian River Water Quality Grab Samples

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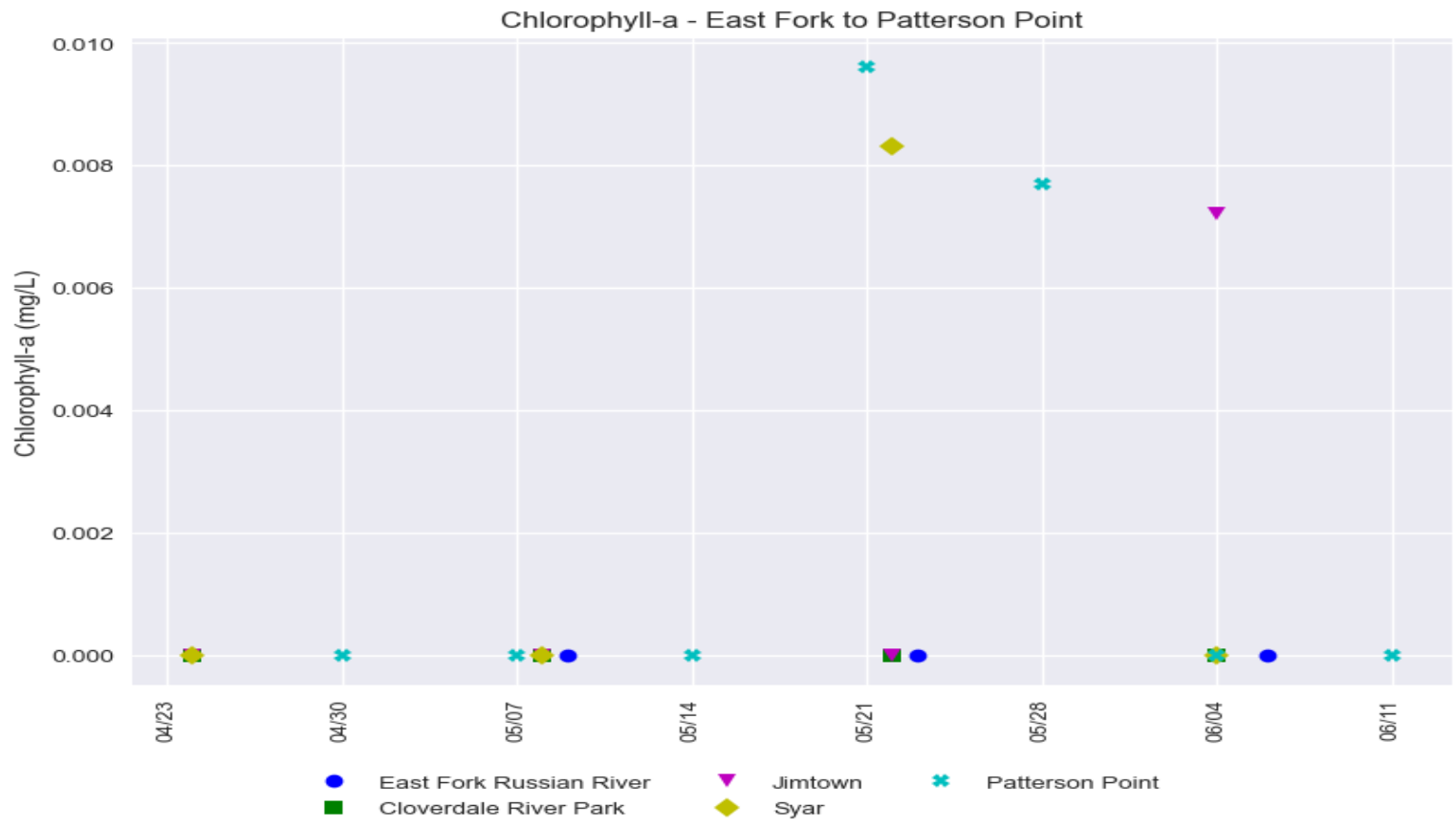
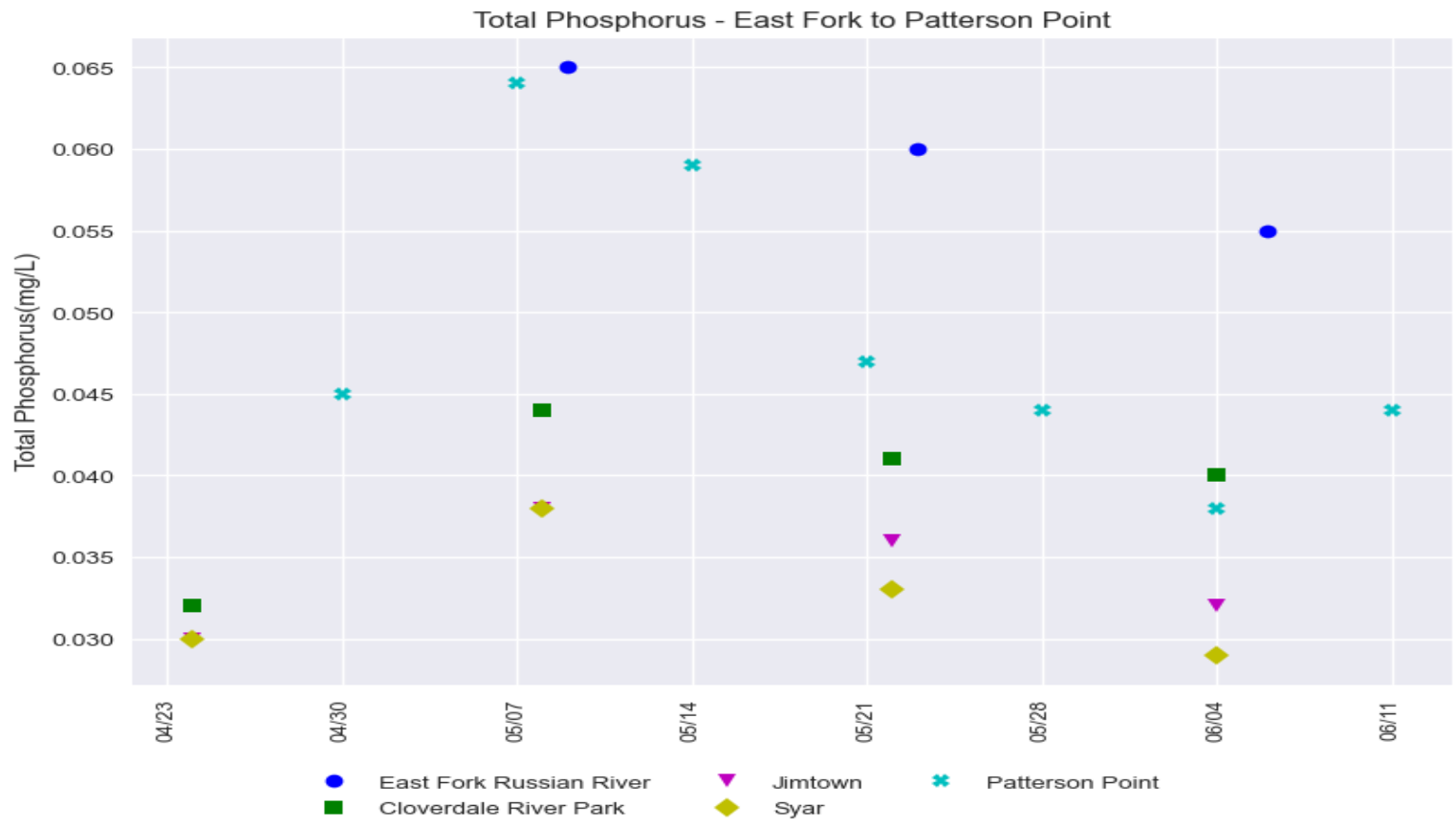
Russian River Water Quality Grab Samples

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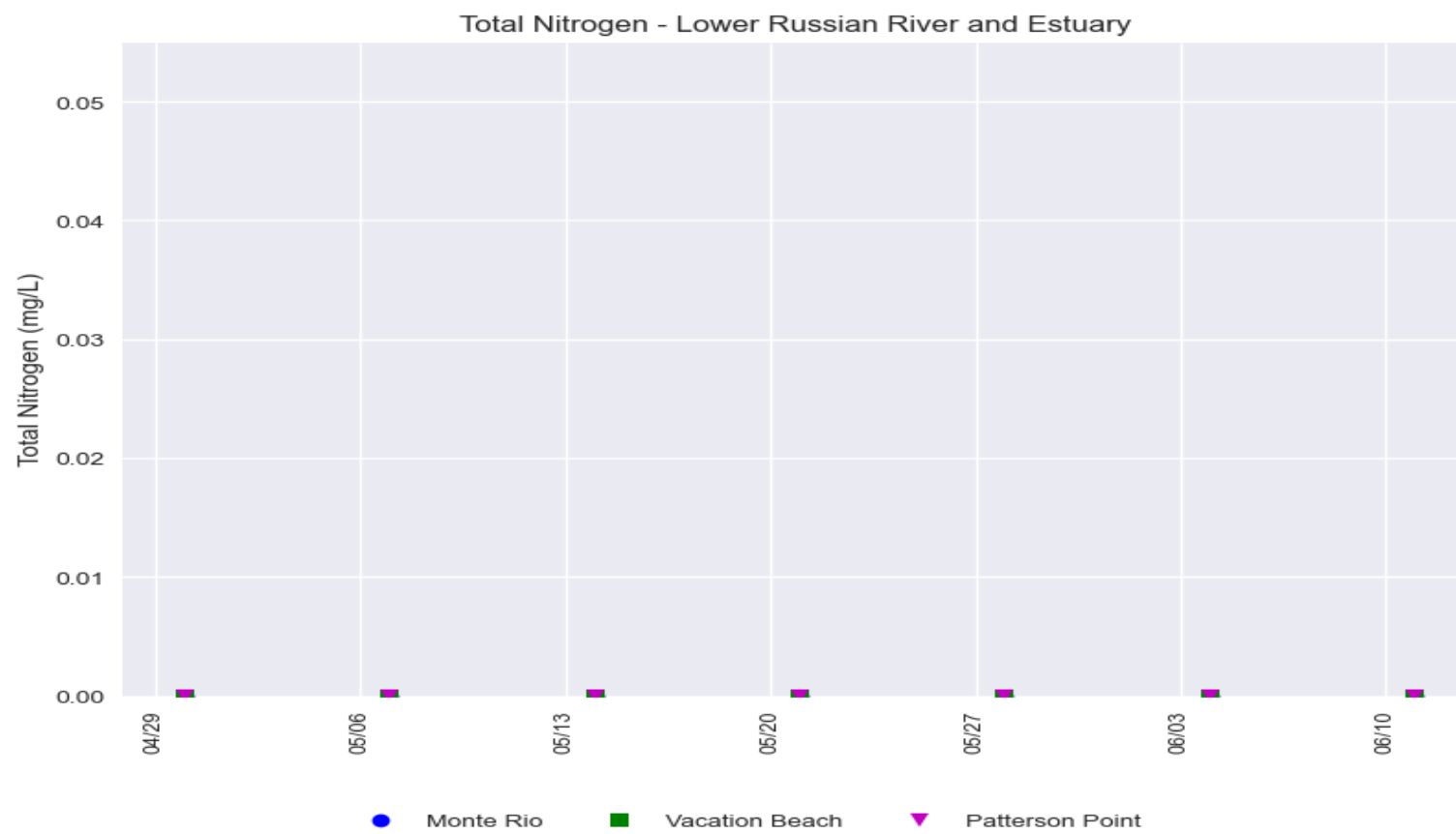
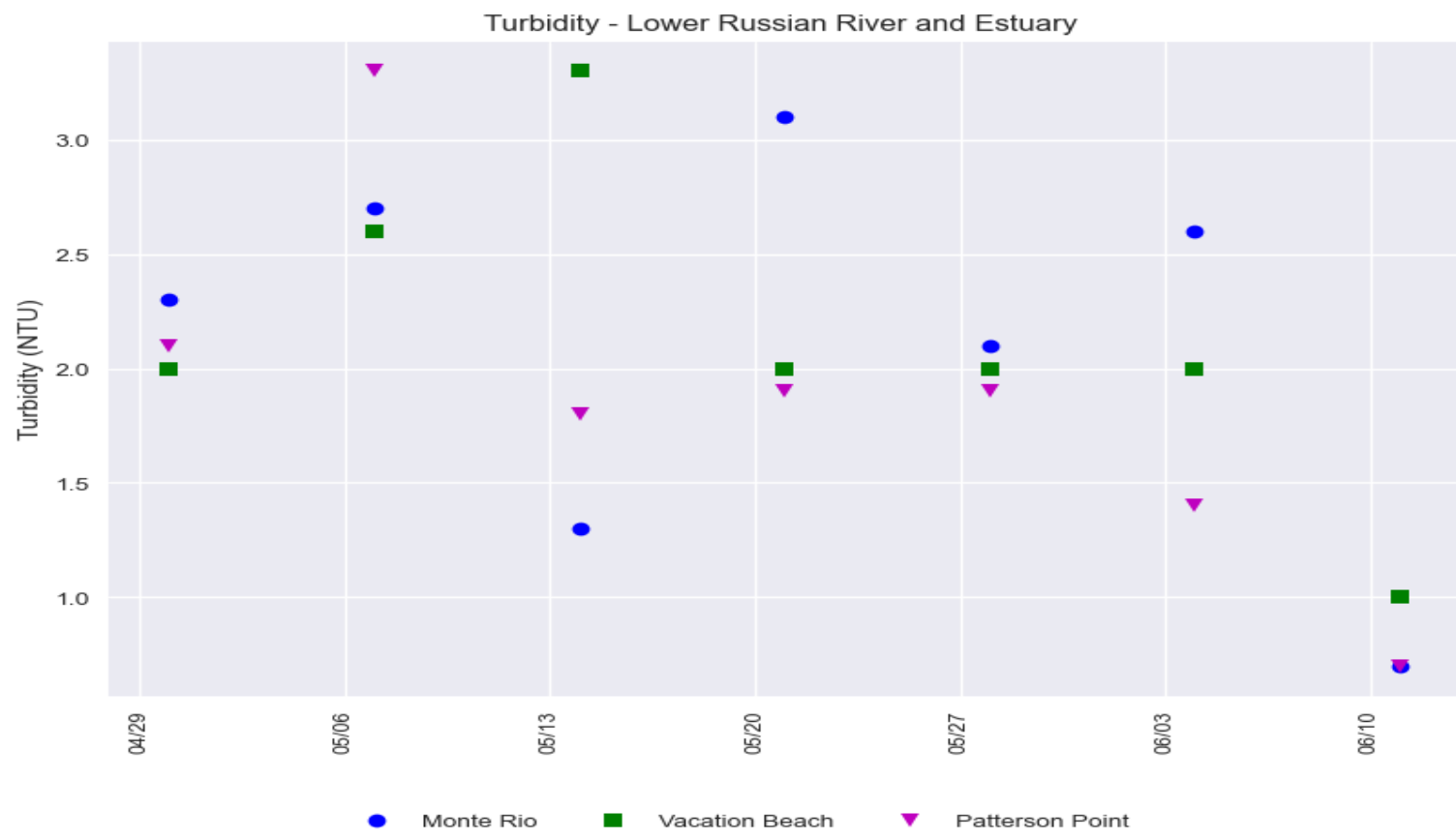
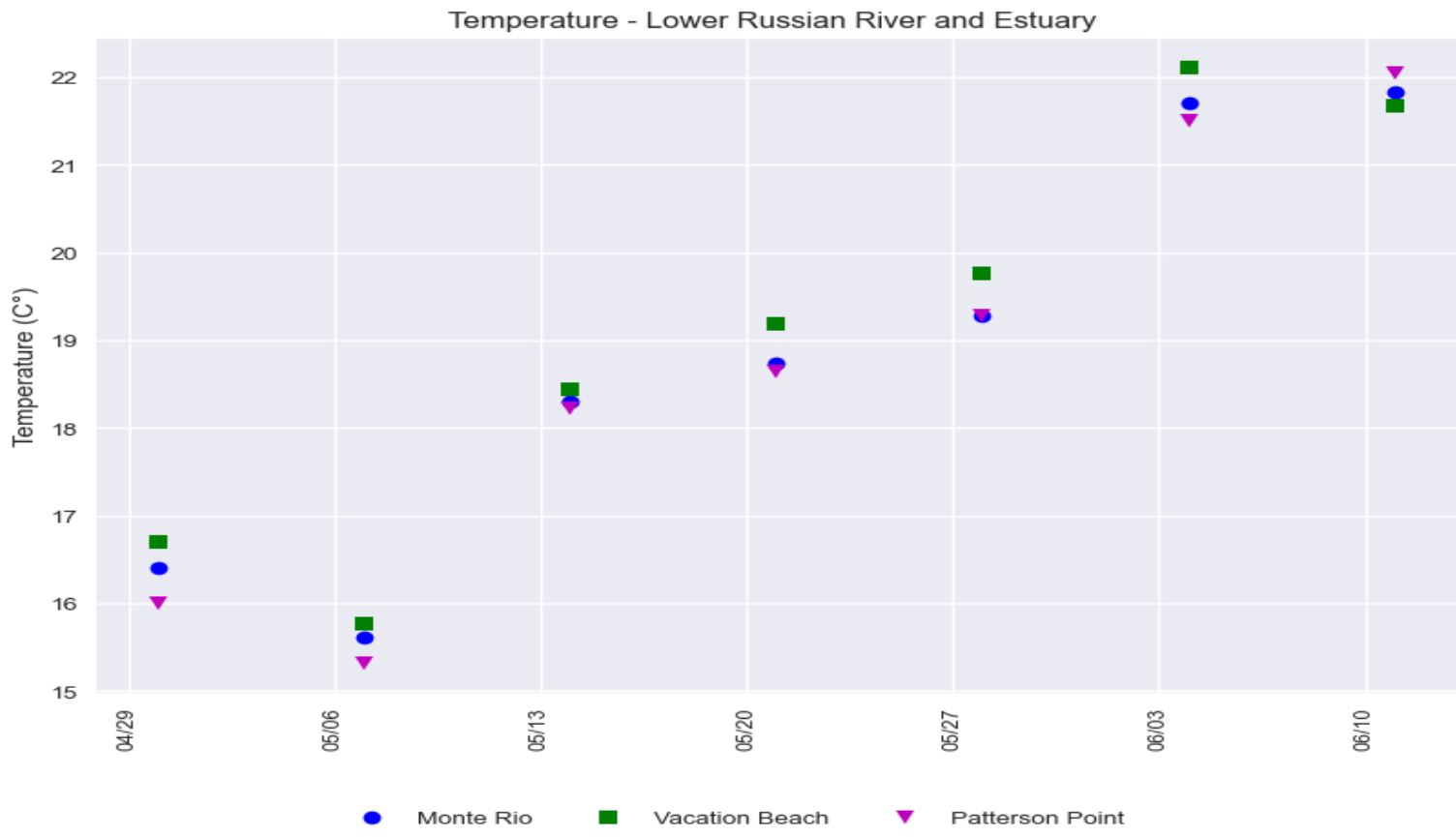
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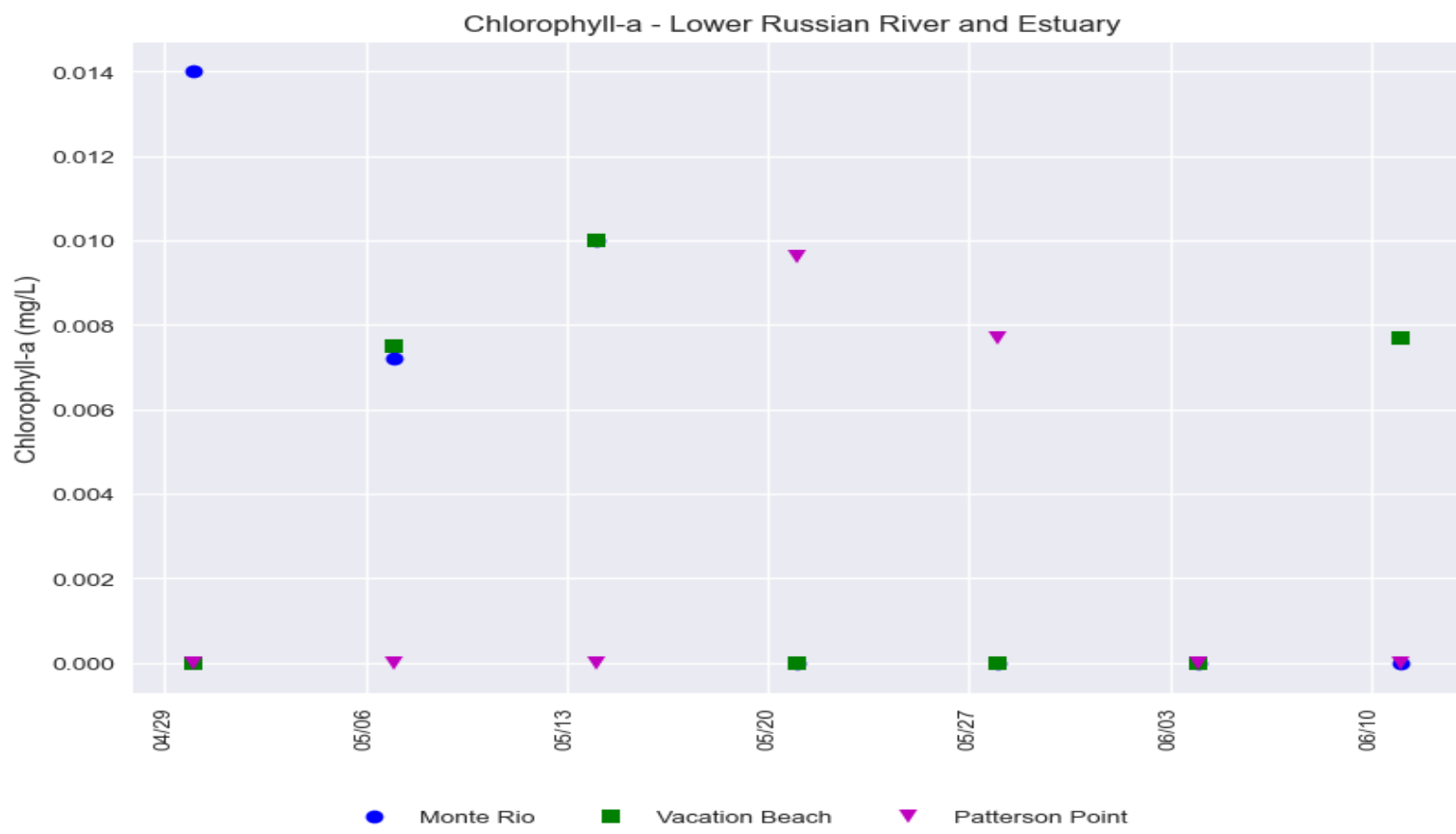
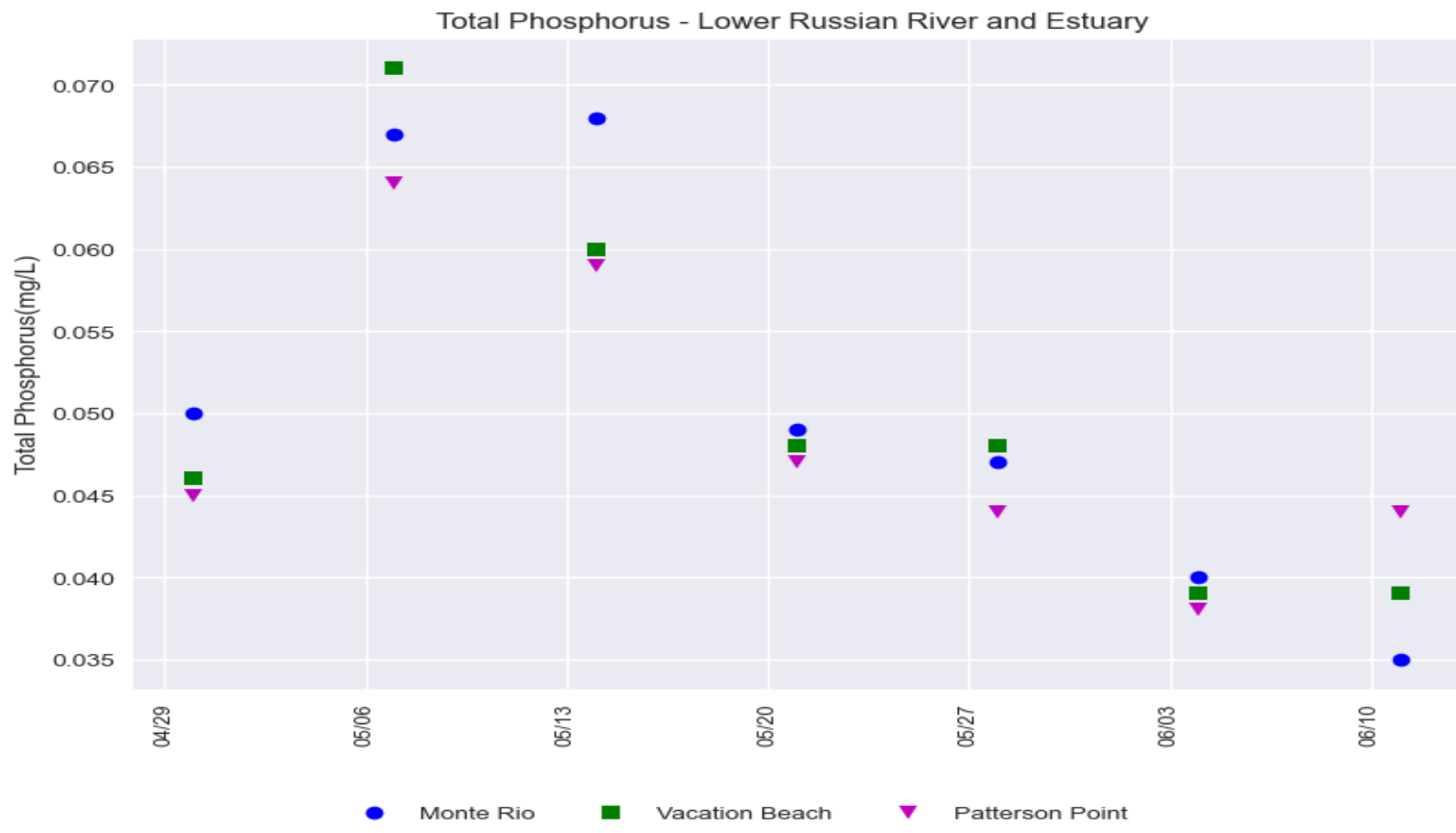
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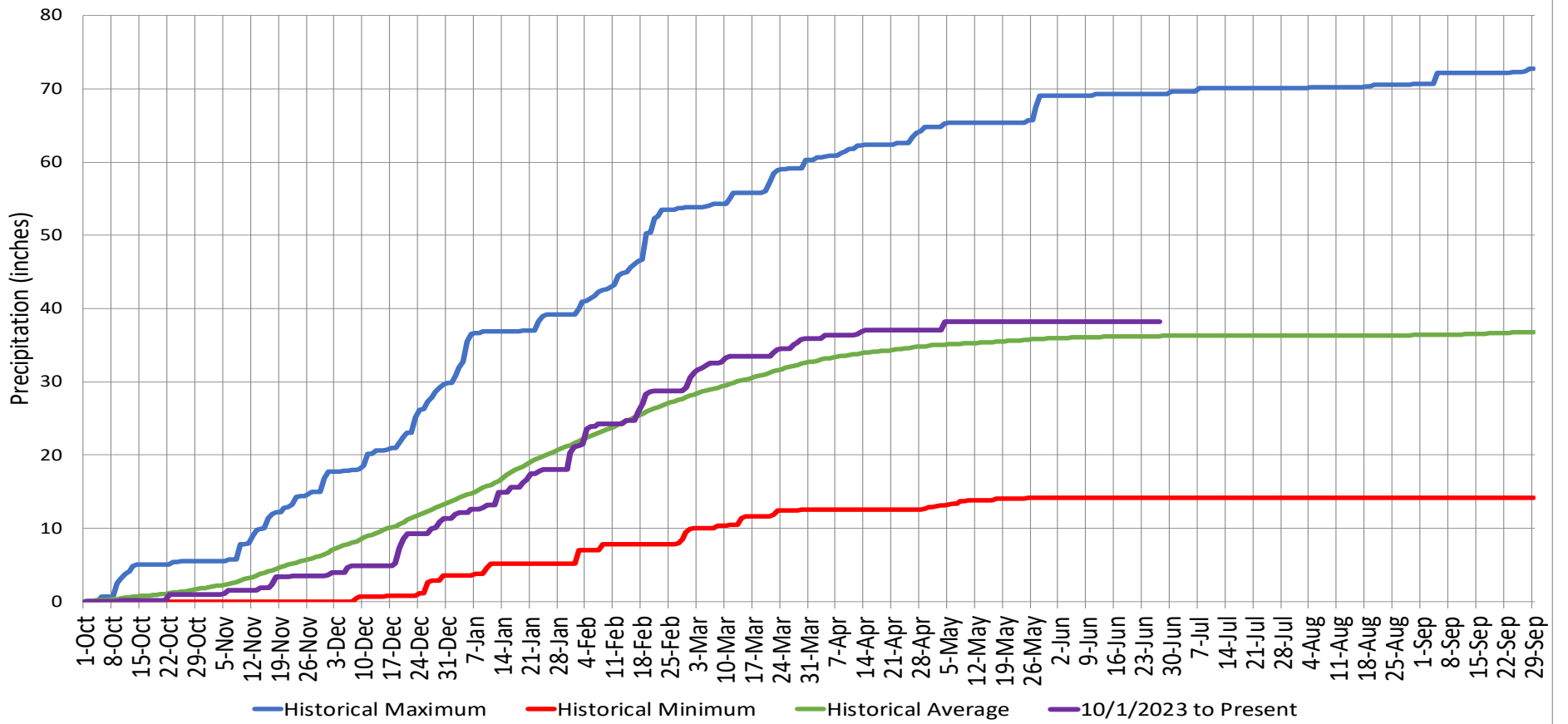


Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

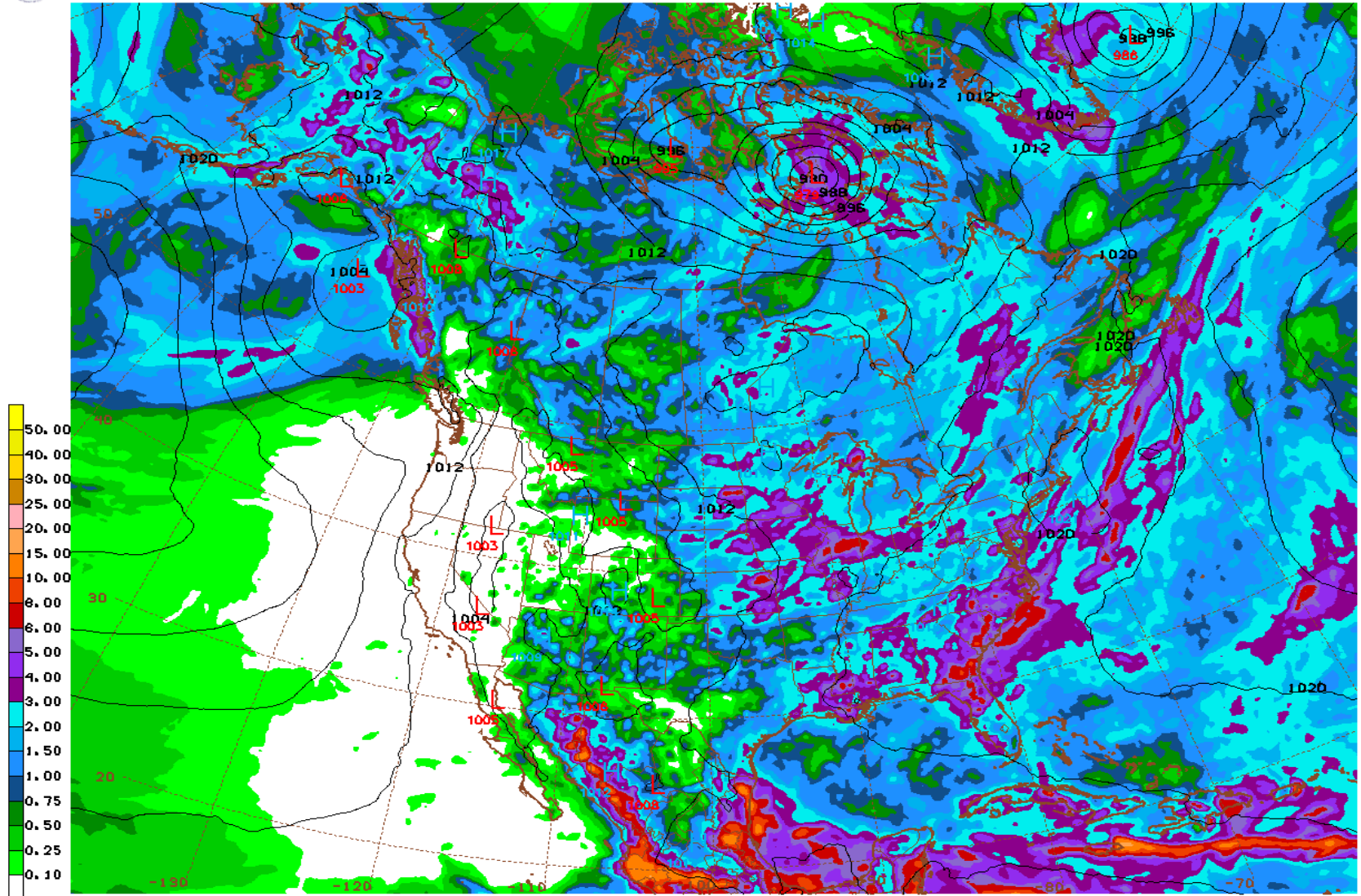
| Date Range | Cumulative (inches) |
|----------------------------|---------------------|
| Oct 1, 2023 - Jun 27, 2024 | 38.22 |
| Last 7 Days* | 0.00 |

Cumulative Precipitation Comparison of Current Year versus Historic Record



Global Forecast System Model 16-day Cumulative Precipitation Forecast

GFS 07/01/24 12UTC 384HR FCST VALID WED 07/17/24 12UTC NOAA/NWS/NCEP



GFS WED 240717/1200V384 EMSL (4MB), 384HR ACCUMULATED PRECIP (IN)

Date Range
Jul 1 - Jul 17, 2024

Forecasted Cumulative (inches)
0.00