



**State Water Resources Control Board
 Temporary Urgency Change Order (12/11/2021)
 Russian River Hydrologic Report
 May 27, 2022 - June 2, 2022**

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).

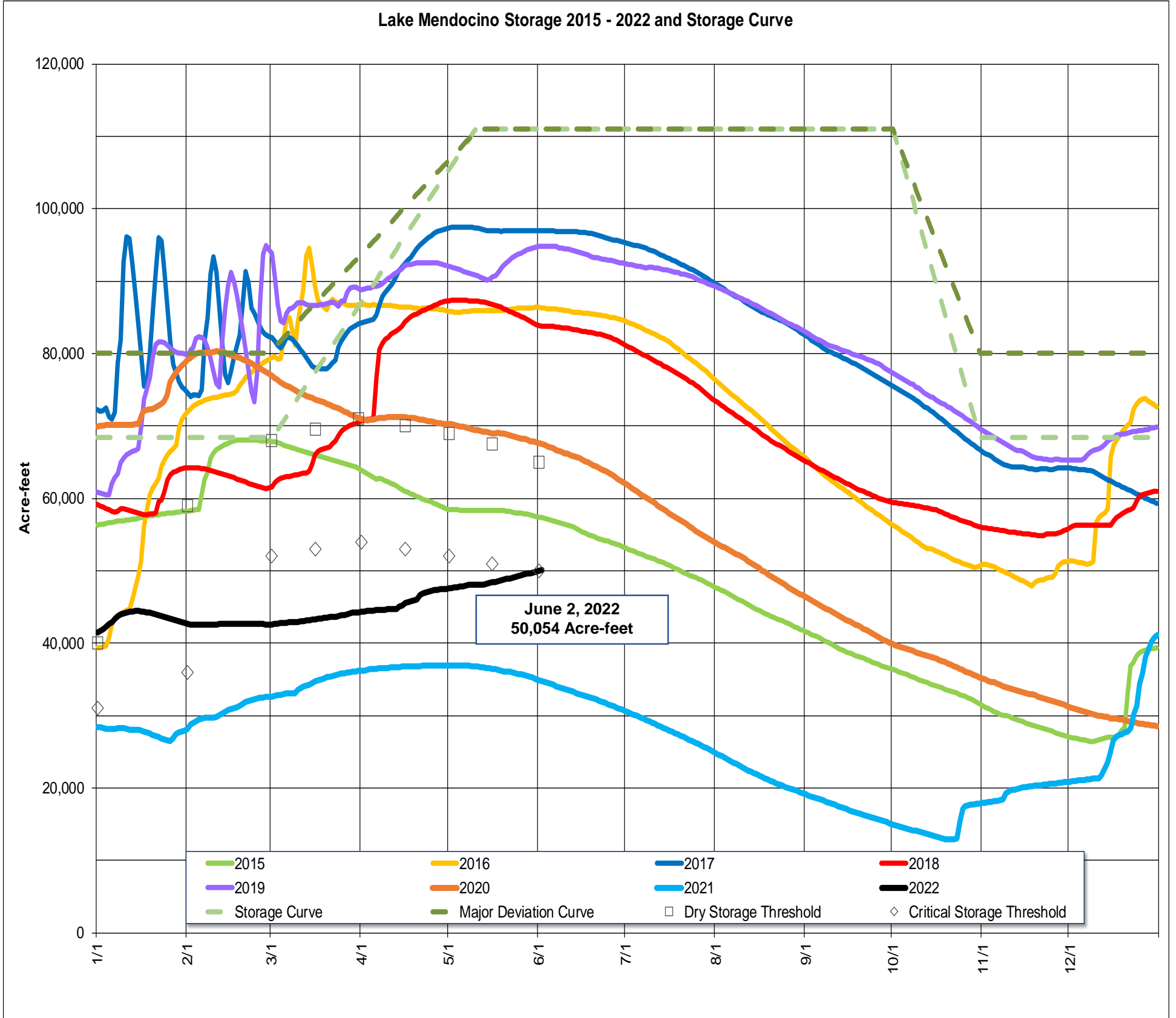
Instream Flow Requirements as of June 2, 2022

| Basis | Reach | Instantaneous (cfs) | 5-day Average (cfs) |
|--|---------------------|---------------------|---------------------|
| Modified Per Order: Critical Condition | Upper Russian River | 25 | 0 |
| Modified Per Order: Critical Condition | Dry Creek | 25 | 0 |
| Modified Per Order: Critical Condition | Lower Russian River | 35 | 0 |

Upper Russian River, Dry Creek, Lower Russian River based on criteria as established in the Order issued 12/11/2021.

Lake Mendocino

Lake Mendocino Storage 2015 - 2022 and Storage Curve



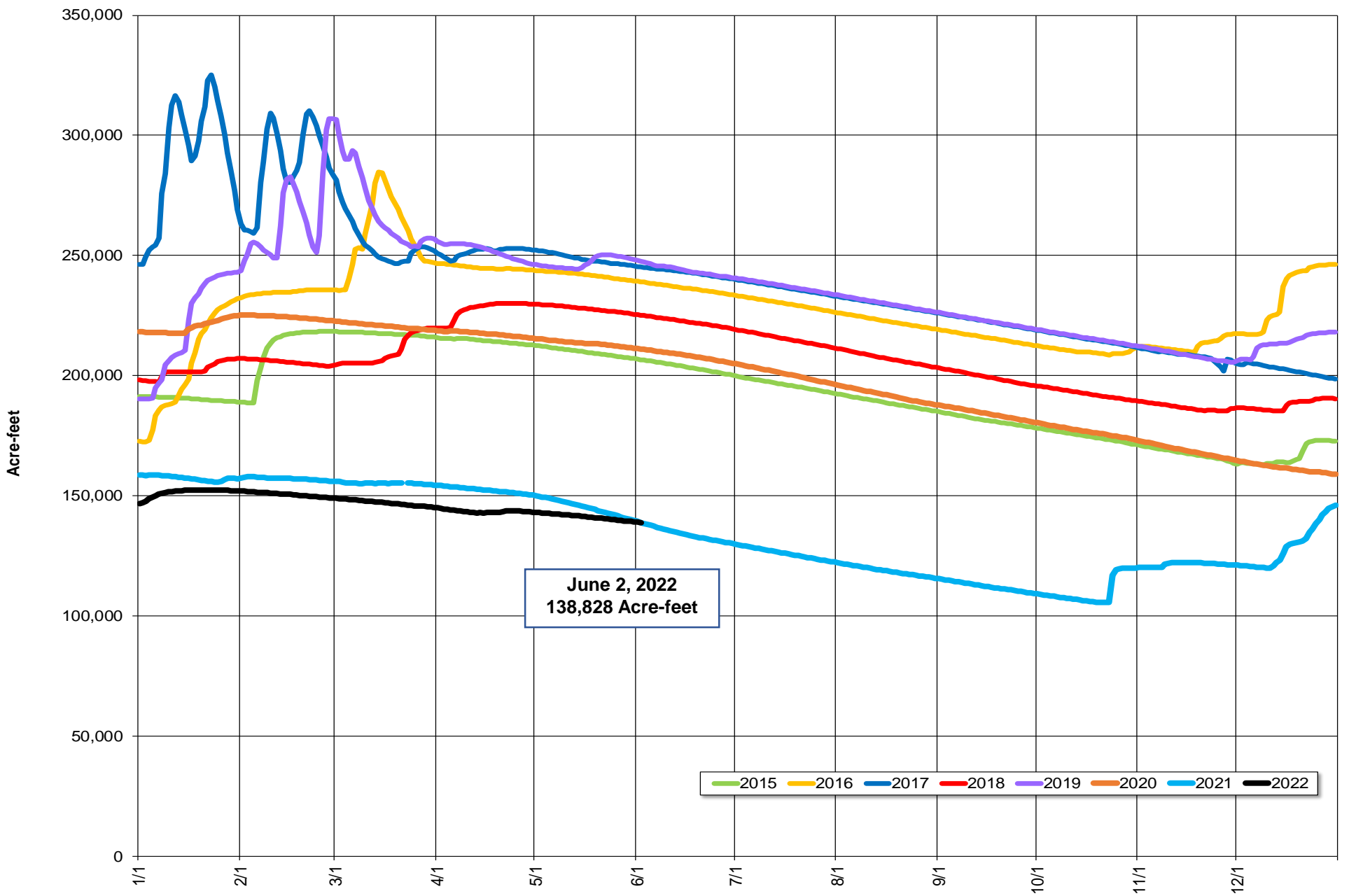
| | | | |
|-------------------------------|--------------|---------------|--------------------|
| Storage (acre-feet) | June 2, 2022 | 50,054 | |
| | | Total | Average Daily Rate |
| Change in Storage (acre-feet) | Last 30 days | 2,386 | 80 |
| | Last 7 days | 570 | 81 |
| Daily Inflow (cfs) | Last 7 days | Min | 78 |
| | | Max | 116 |
| | | Mean | 99 |
| Release (cfs) | Last 7 days | Min | 38 |
| | | Max | 46 |
| | | Mean | 42 |

Lake Sonoma



Nathan Baskett, March 3, 2011

Lake Sonoma Storage 2015-2022



| | | | |
|-------------------------------|--------------|----------------|--------------------|
| Storage (acre-feet) | June 2, 2022 | 138,828 | |
| | | Total | Average Daily Rate |
| Change in Storage (acre-feet) | Last 30 days | -4,073 | -136 |
| | Last 7 days | -902 | -129 |
| Daily Inflow (cfs) | Last 7 days | Min | 0 |
| | | Max | 11 |
| | | Mean | 4 |
| Release (cfs) | Last 7 days | Min | 66 |
| | | Max | 66 |
| | | Mean | 66 |

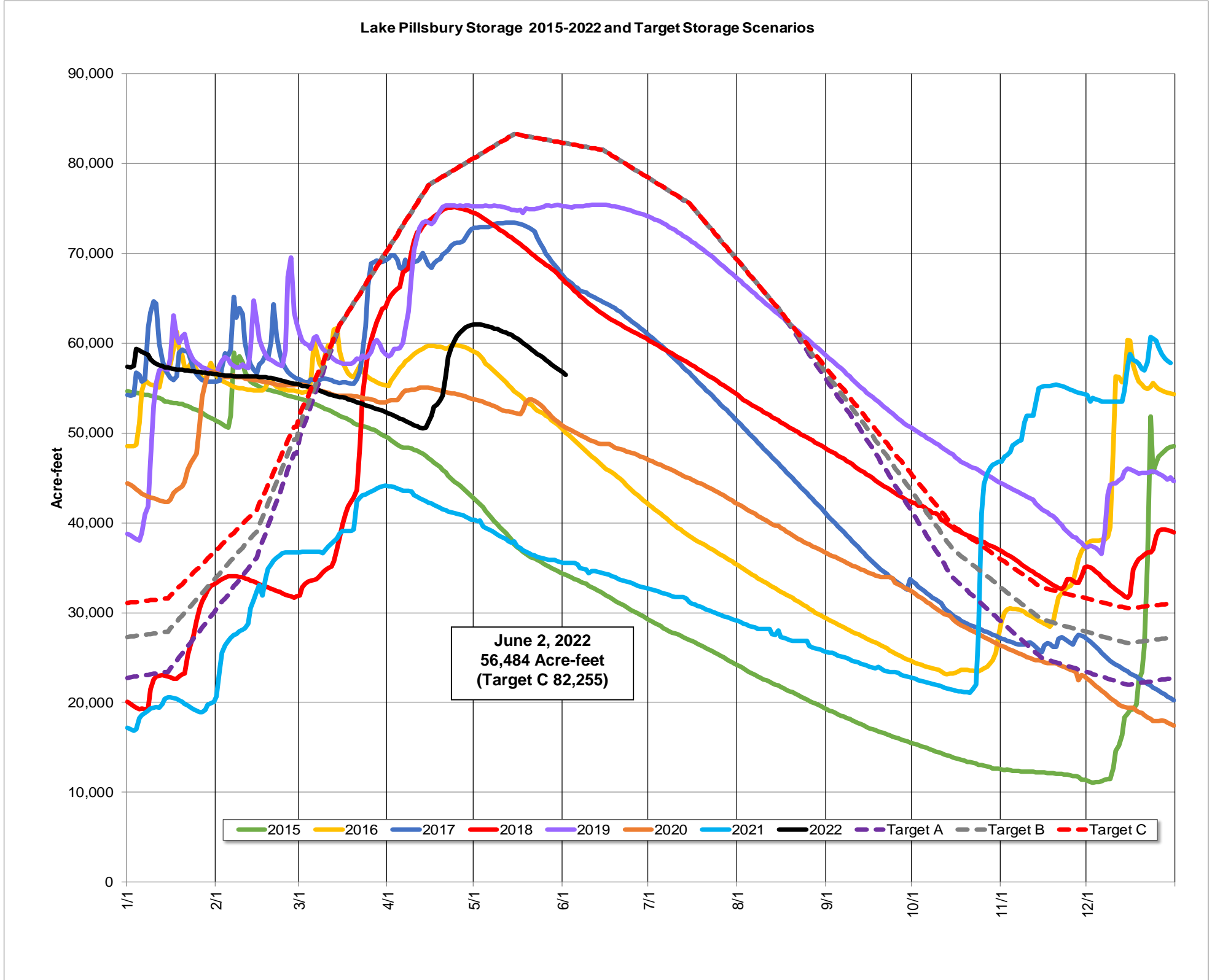
Potter Valley Project

| | | |
|---------------------|--------------|-----|
| PVP Diversion (cfs) | June 2, 2022 | 112 |
|---------------------|--------------|-----|

Lake Pillsbury

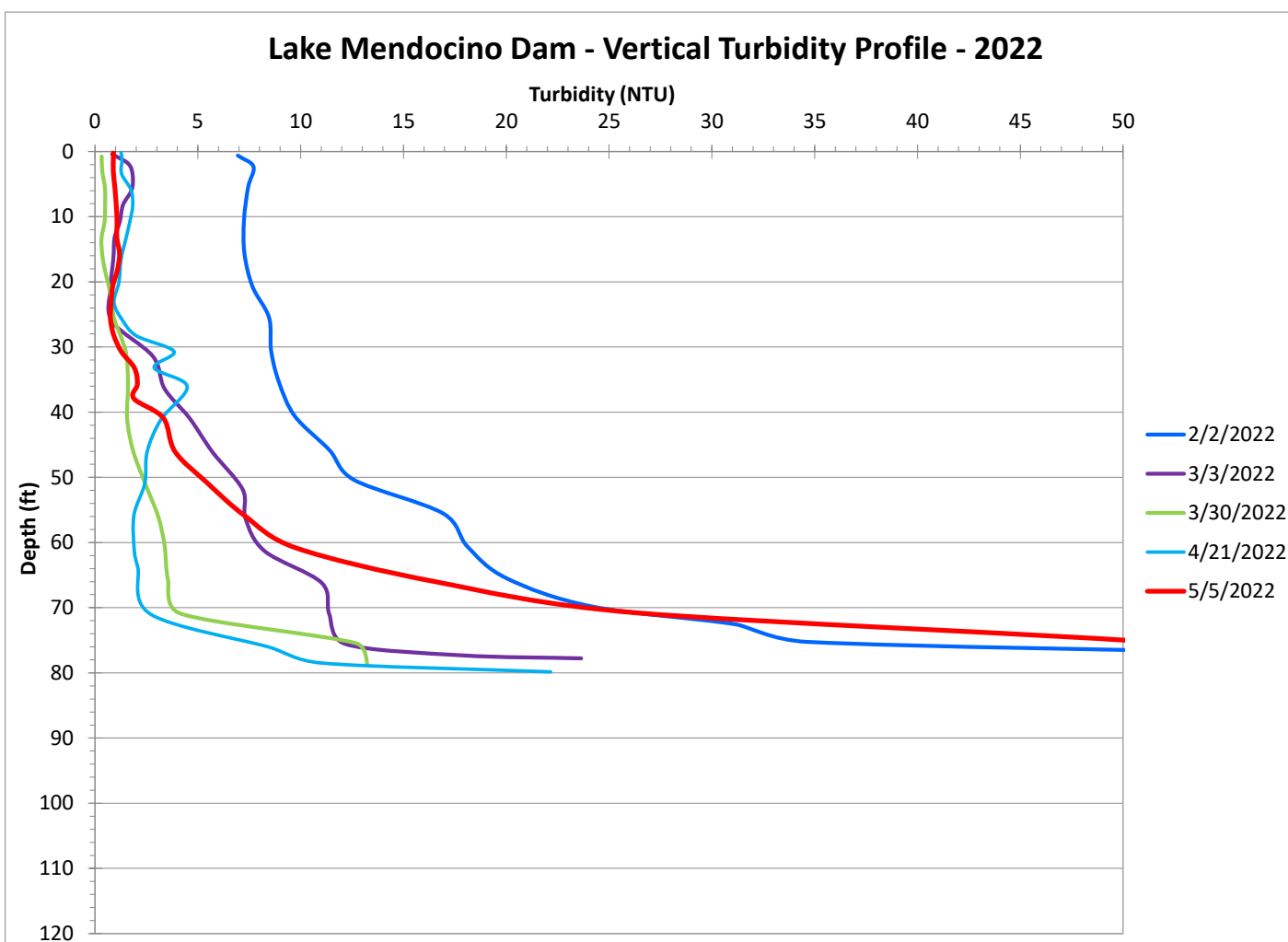
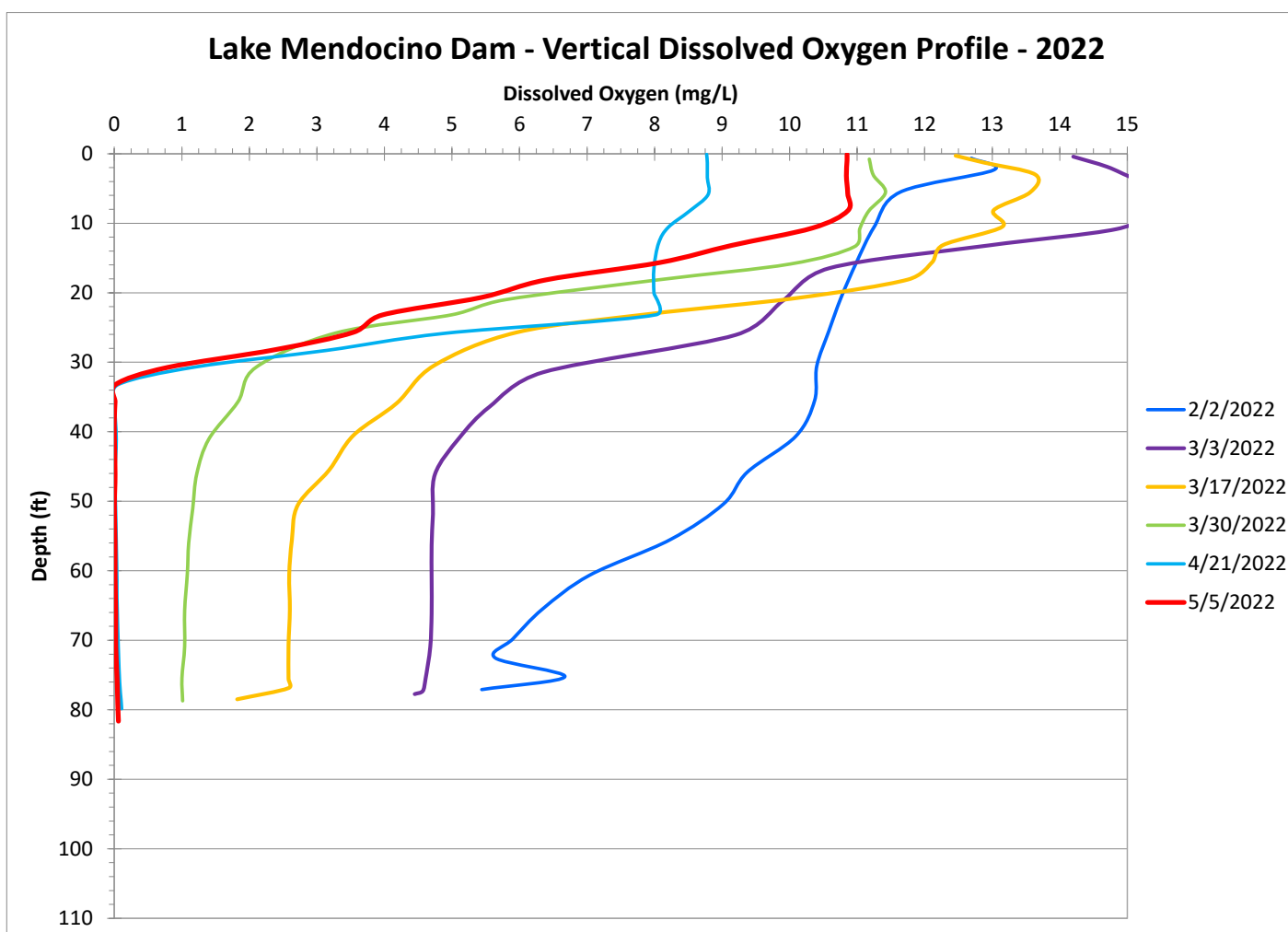
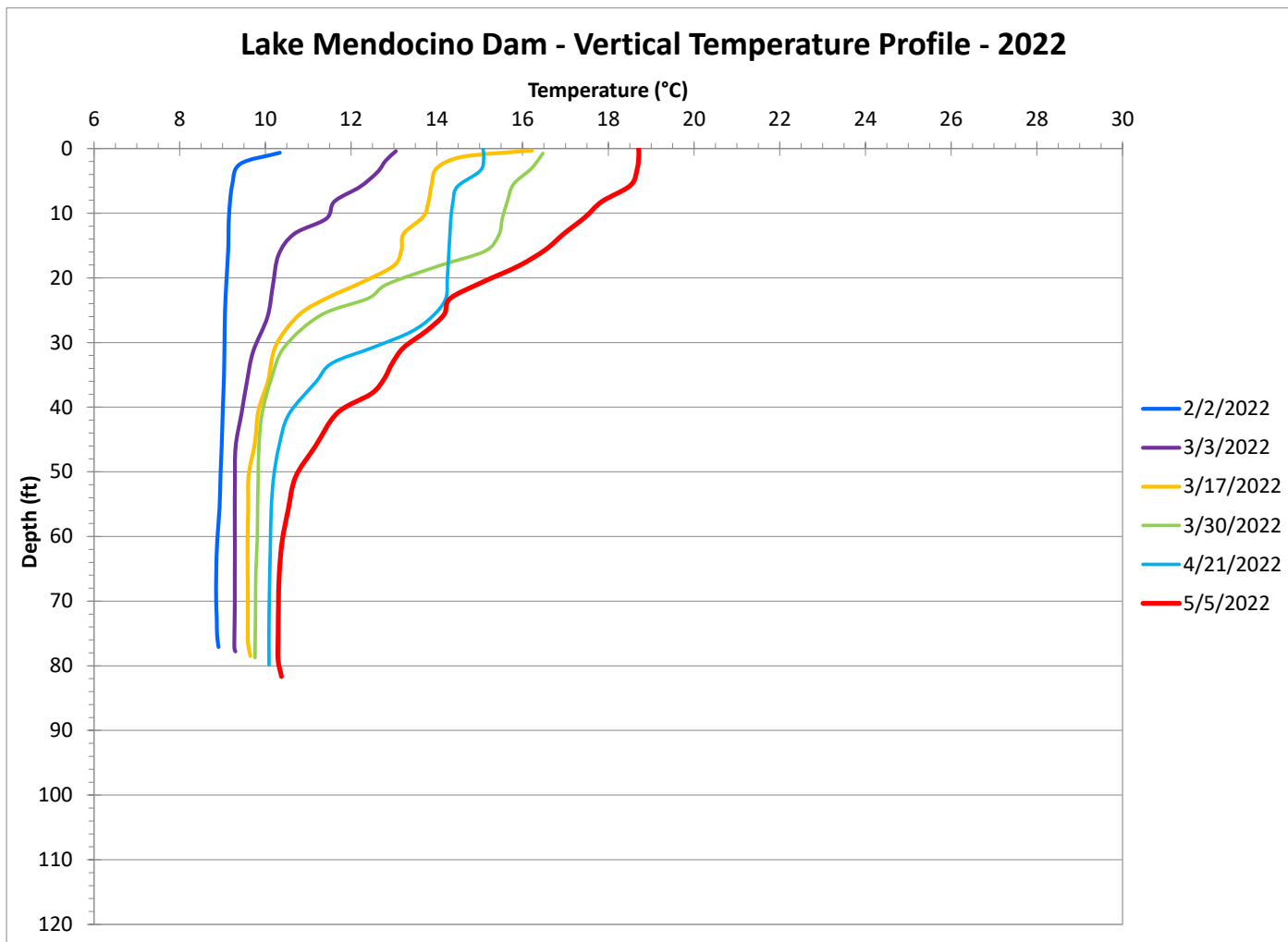
| Parameter | Date Range | Cumulative | Daily Average |
|---------------------|--------------------------------|------------|---------------|
| Inflow* (acre-feet) | October 1, 2021 - June 2, 2022 | 228,507 | 937 |
| | Last 7 days | 1,218 | 174 |

*Inflow calculation based on criteria established in D1610



Lake Mendocino Water Quality Vertical Profiles (February 2 – May 5, 2022)

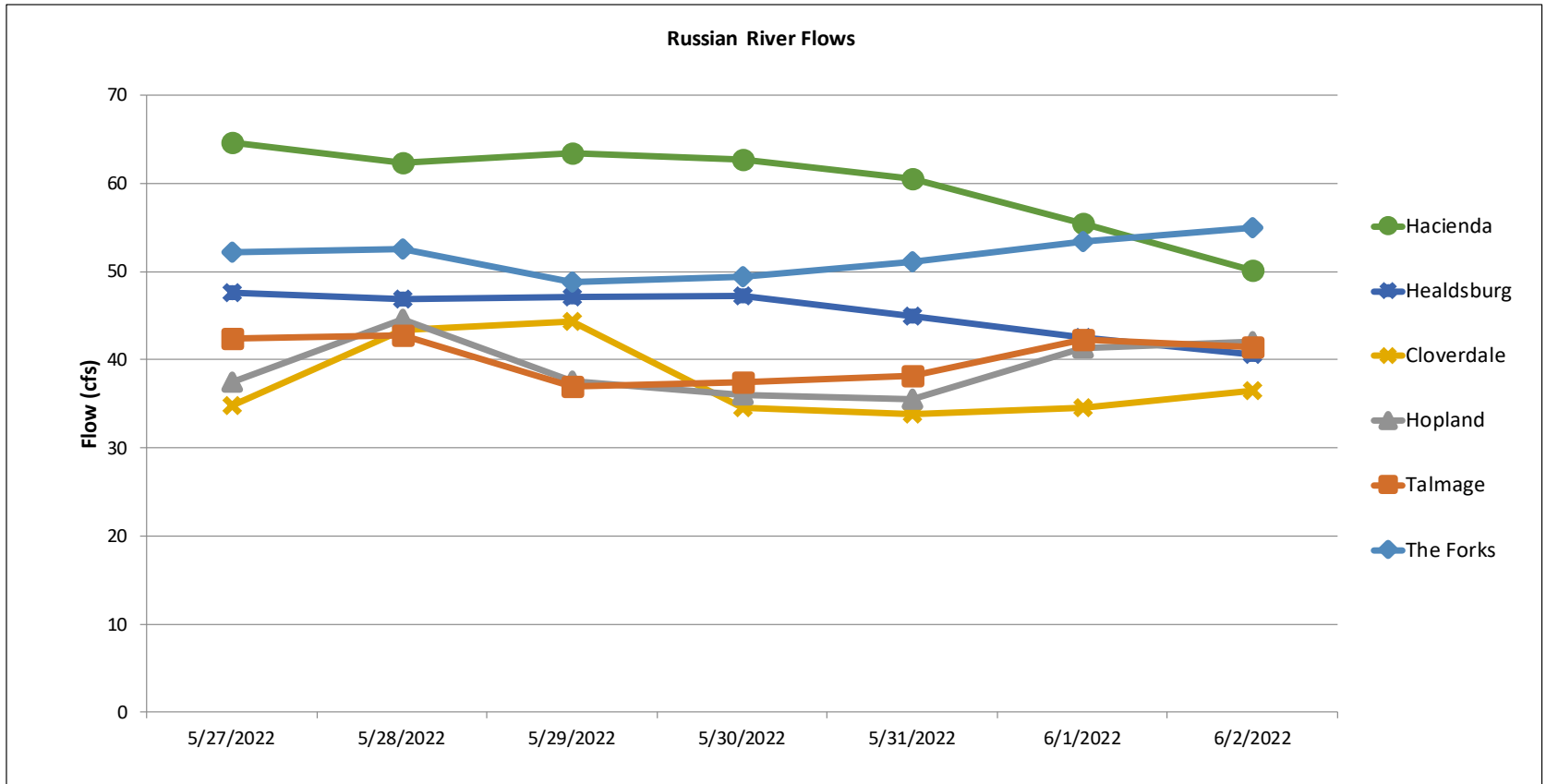
Provisional Data Subject to Revision



Russian River Flows (May 27, 2022 - June 2, 2022)

| Gage | 24-hr Average Flow (cfs) | | | | | | |
|-----------------------------|--------------------------|--------------|--------------|--------------|--------------|-------------|-------------|
| | May 27, 2022 | May 28, 2022 | May 29, 2022 | May 30, 2022 | May 31, 2022 | Jun 1, 2022 | Jun 2, 2022 |
| The Forks* | 52 | 53 | 49 | 49 | 51 | 53 | 55 |
| Talmage USGS 11462080 | 42 | 43 | 37 | 37 | 38 | 42 | 41 |
| Hopland USGS 11462500 | 37 | 45 | 38 | 36 | 35 | 41 | 42 |
| Cloverdale USGS 11463000 | 35 | 43 | 44 | 35 | 34 | 35 | 36 |
| Healdsburg USGS 11464000 | 48 | 47 | 47 | 47 | 45 | 43 | 41 |
| Hacienda USGS 11467000 | 65 | 62 | 64 | 63 | 61 | 56 | 50 |

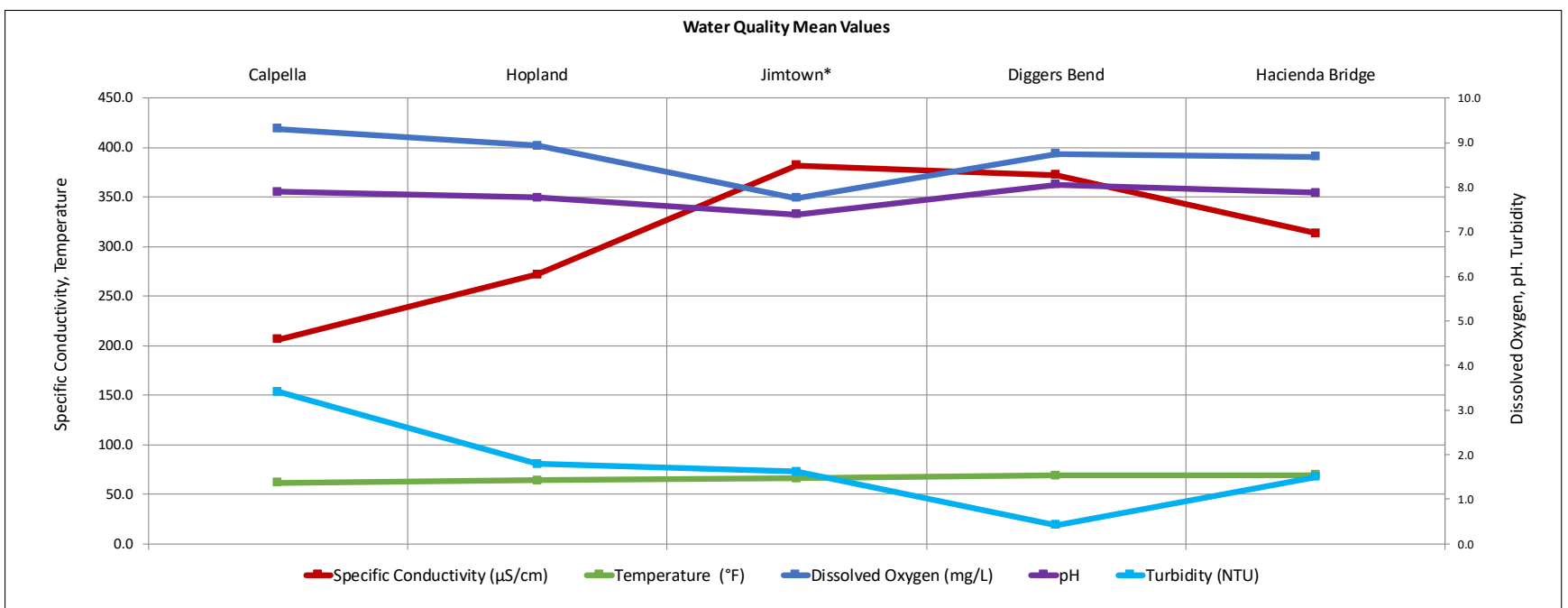
*West Fork (USGS 11461000) + East Fork (Coyote Valley Dam Release)



Russian River Water Quality (May 27, 2022 - June 2, 2022)

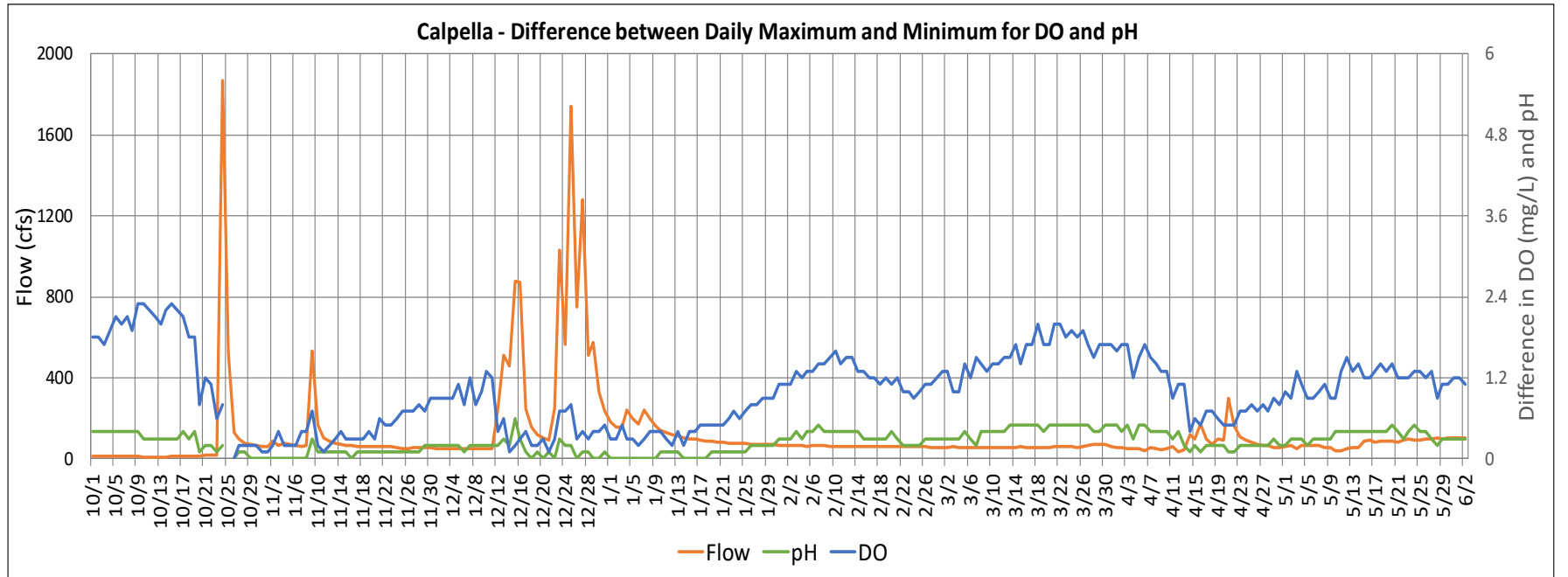
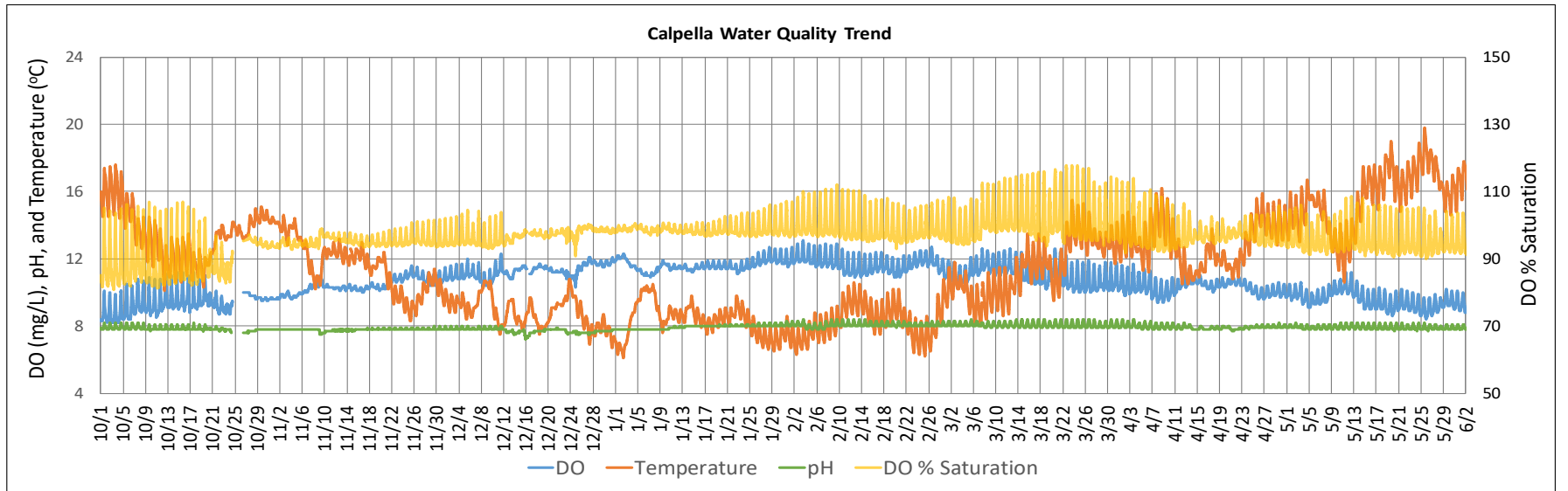
| Parameter | | Calpella | Hopland | Cloverdale* | Jimtown* | Diggers Bend | River Diversion System at Mirabel* | Hacienda Bridge | Johnsons Beach* |
|---------------------------------|------|---------------|---------------|---------------|---------------|---------------|------------------------------------|-----------------|-----------------|
| | | USGS 11461500 | USGS 11462500 | USGS 11463000 | USGS 11463682 | USGS 11463980 | SCWA | USGS 11467000 | SCWA |
| Temperature (°F) | Min | 58.3 | 59.7 | | 61.7 | 63.0 | | 66.2 | |
| | Max | 65.5 | 67.6 | | 71.6 | 76.5 | | 74.1 | |
| | Mean | 61.8 | 64.0 | | 66.2 | 69.1 | | 69.5 | |
| Specific Conductivity (µS/cm) | Min | 204.0 | 261.0 | | 380.0 | 370.0 | | 308.0 | |
| | Max | 209.0 | 281.0 | | 385.0 | 377.0 | | 320.0 | |
| | Mean | 206.6 | 272.0 | | 382.3 | 372.7 | | 313.6 | |
| Dissolved Oxygen (mg/L) | Min | 8.6 | 7.0 | | 5.4 | 6.6 | | 7.8 | |
| | Max | 10.2 | 11.2 | | 10.5 | 11.3 | | 9.4 | |
| | Mean | 9.3 | 8.9 | | 7.8 | 8.8 | | 8.7 | |
| Dissolved Oxygen (% Saturation) | Min | 90.8 | 73.8 | | 57.3 | 73.3 | | 85.5 | |
| | Max | 104.3 | 121.2 | | 120.1 | 132.4 | | 105.6 | |
| | Mean | 95.6 | 94.2 | | 84.0 | 97.8 | | 97.2 | |
| pH | Min | 7.8 | 7.5 | | 7.2 | 7.8 | | 7.7 | |
| | Max | 8.1 | 8.2 | | 7.6 | 8.4 | | 8.0 | |
| | Mean | 7.9 | 7.8 | | 7.4 | 8.1 | | 7.9 | |
| Turbidity (NTU) | Min | 2.5 | 1.0 | | 1.0 | 0.0 | | 0.8 | |
| | Max | 5.2 | 3.9 | | 2.2 | 1.4 | | 2.4 | |
| | Mean | 3.4 | 1.8 | | 1.6 | 0.4 | | 1.5 | |

*Station operated seasonally



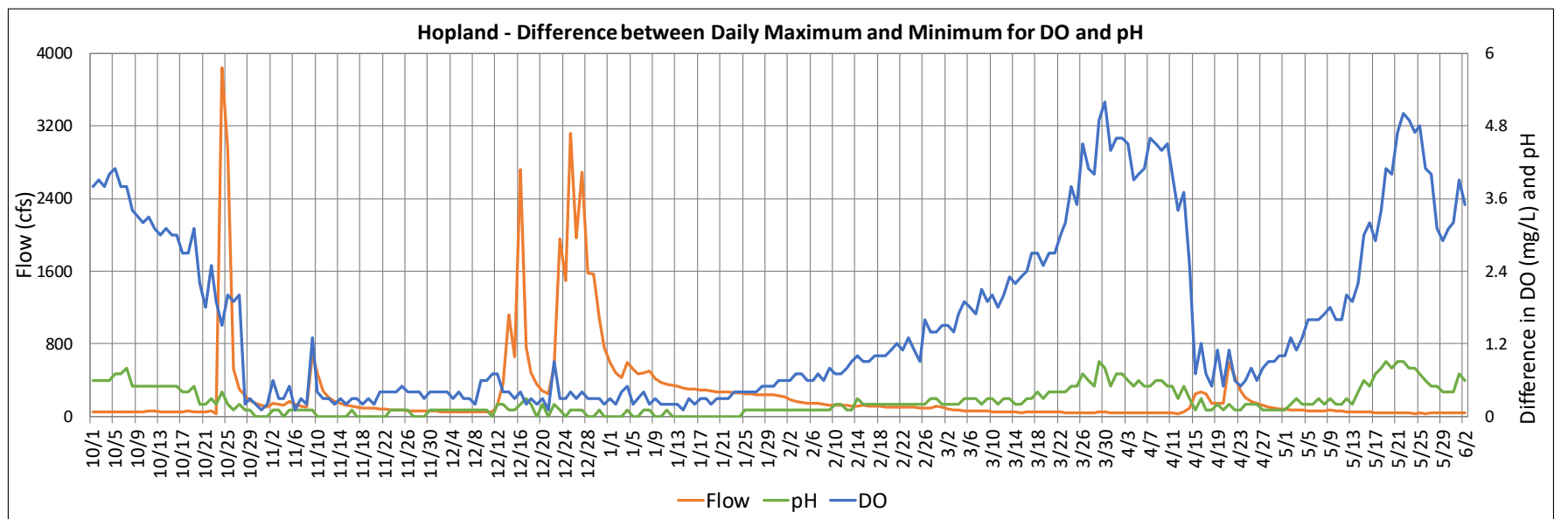
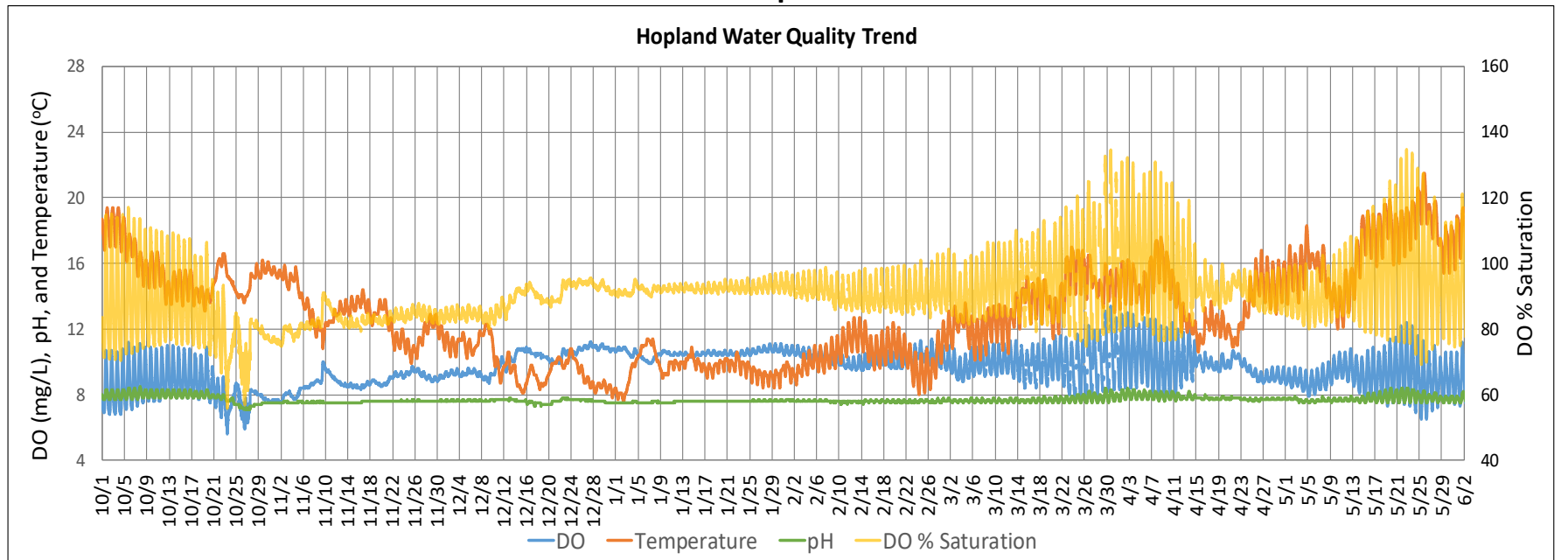
Russian River Water Quality (October 1, 2021 - June 2, 2022)

Calpella (East Fork Russian River)



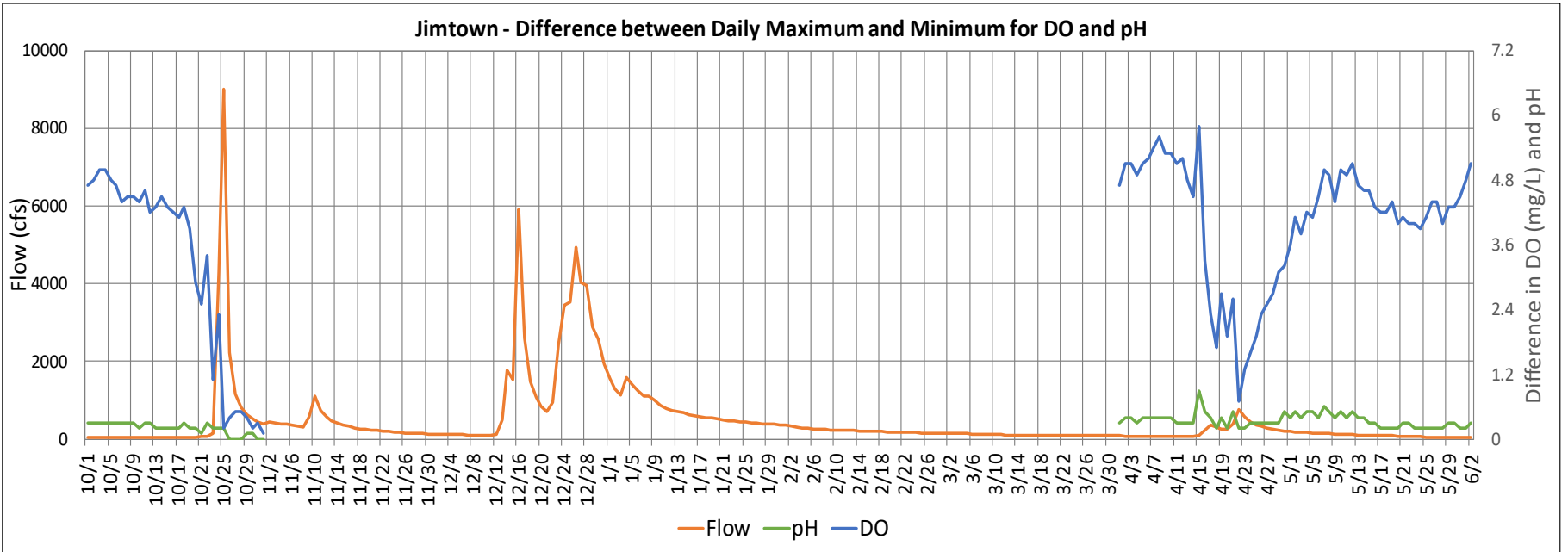
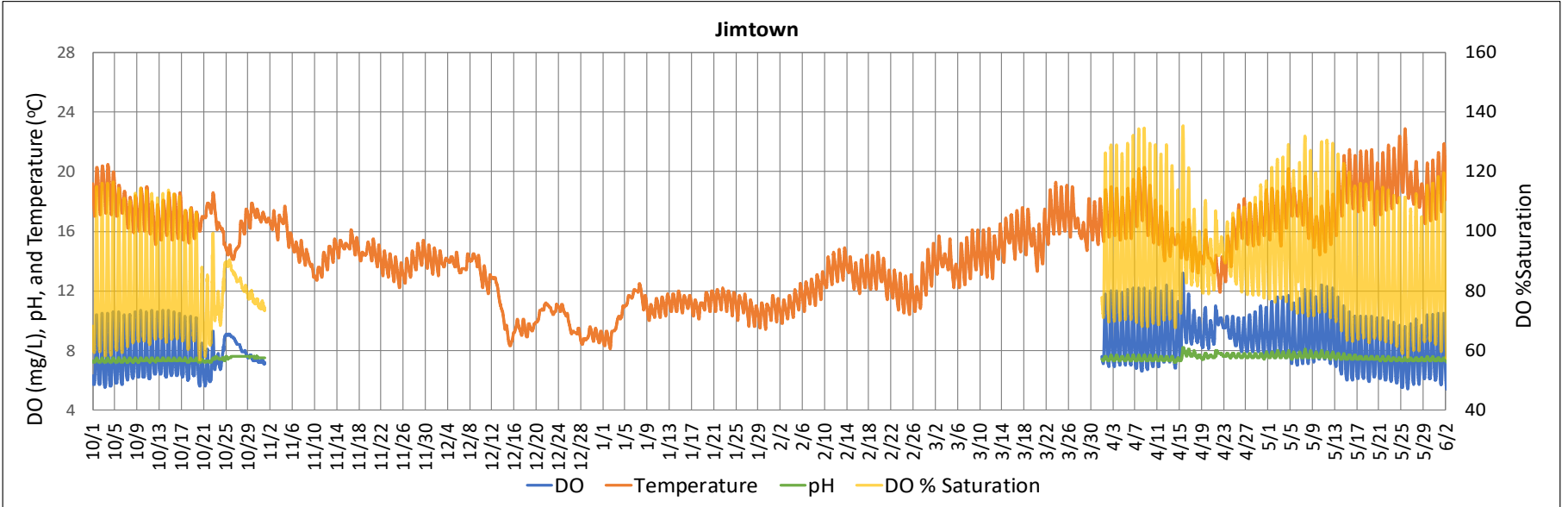
Russian River Water Quality (October 1, 2021 - June 2, 2022)

Hopland



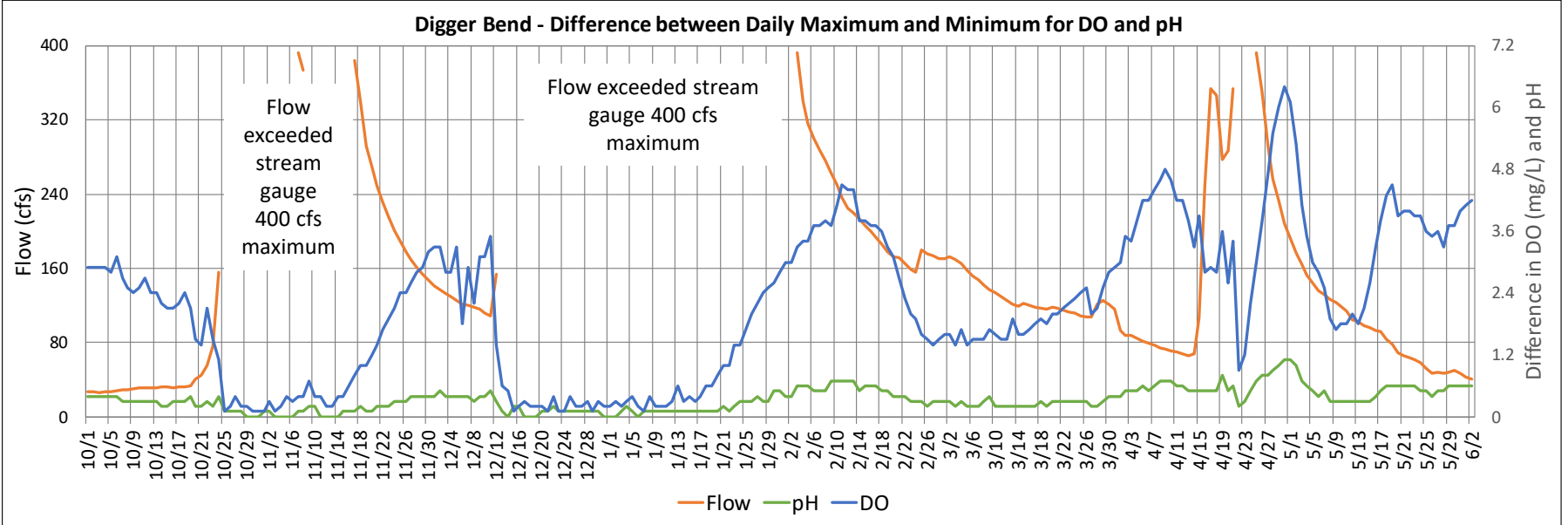
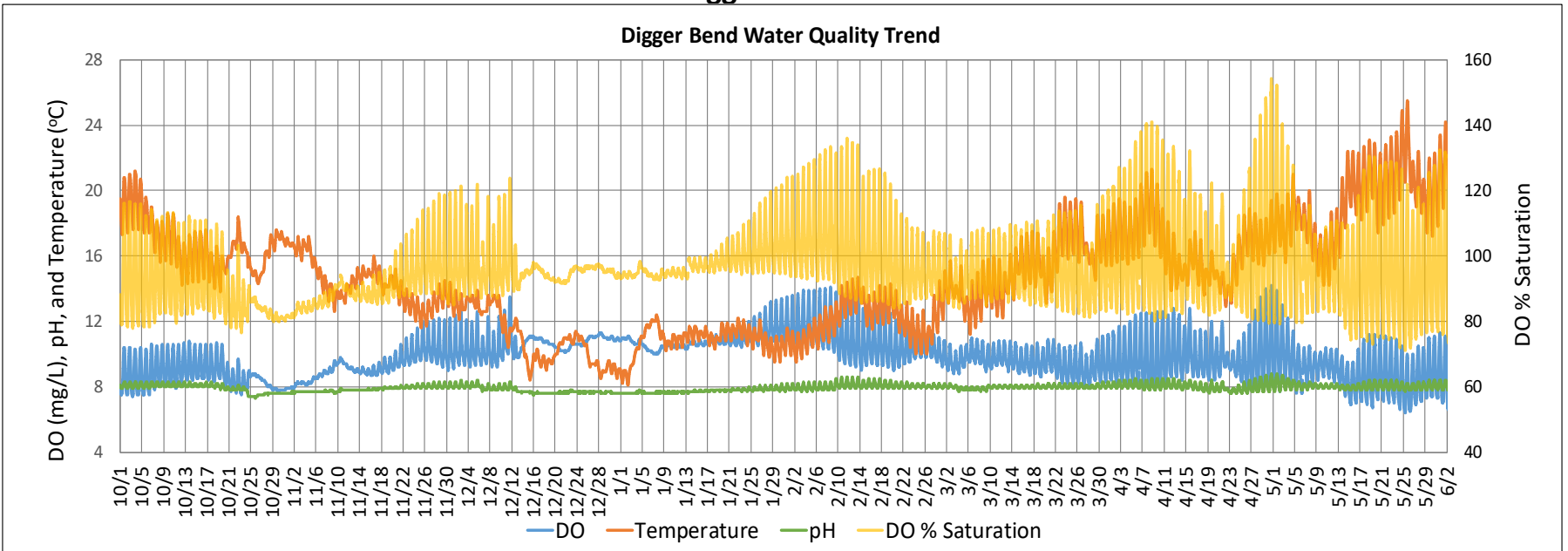
Russian River Water Quality (October 1, 2021 - June 2, 2022)

Jimtown



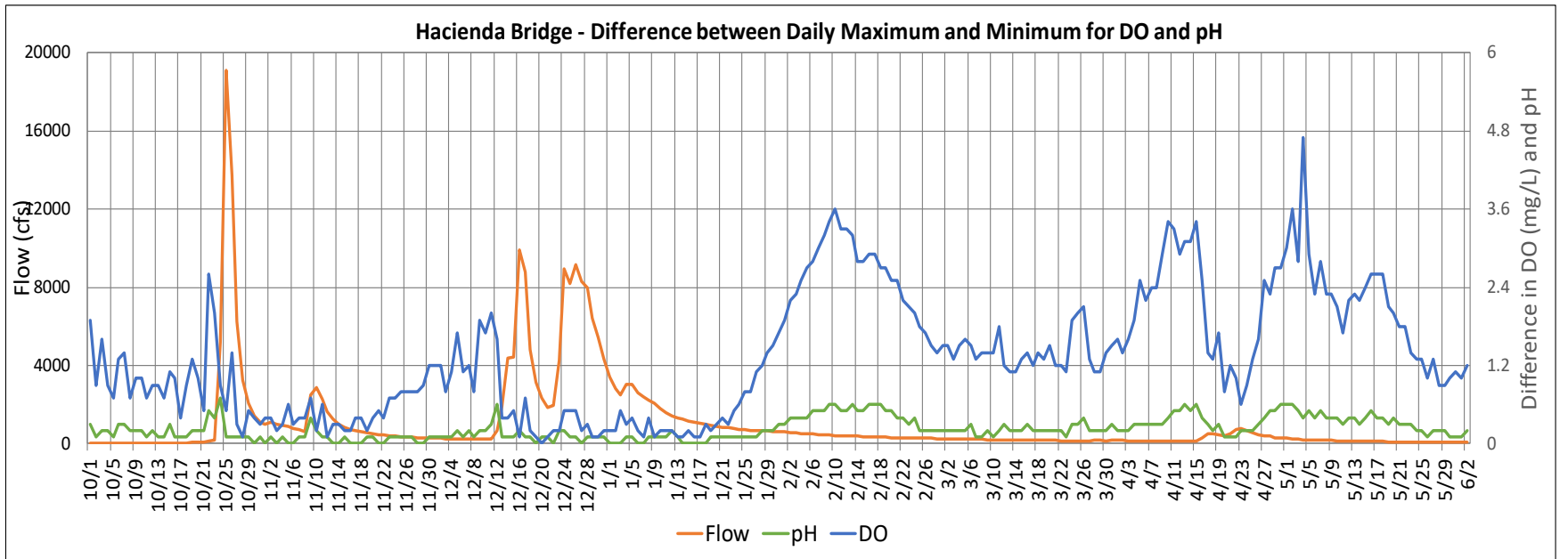
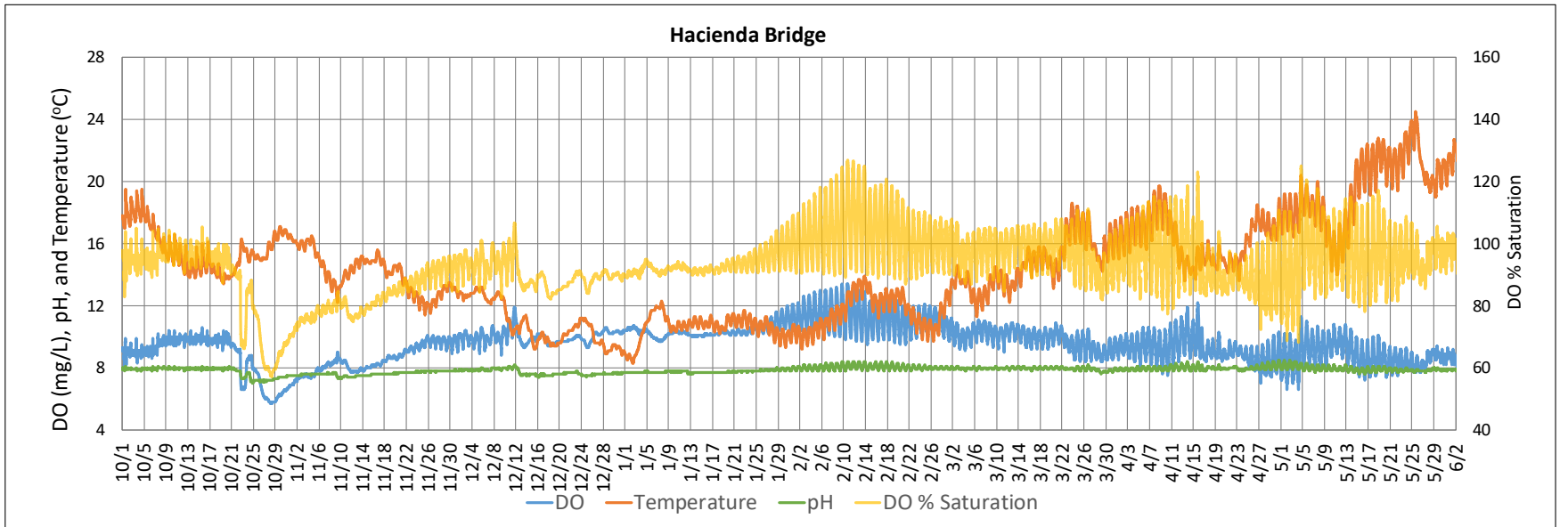
Russian River Water Quality (October 1, 2021 - June 2, 2022)

Digger Bend



Russian River Water Quality (October 1, 2021 - June 2, 2022)

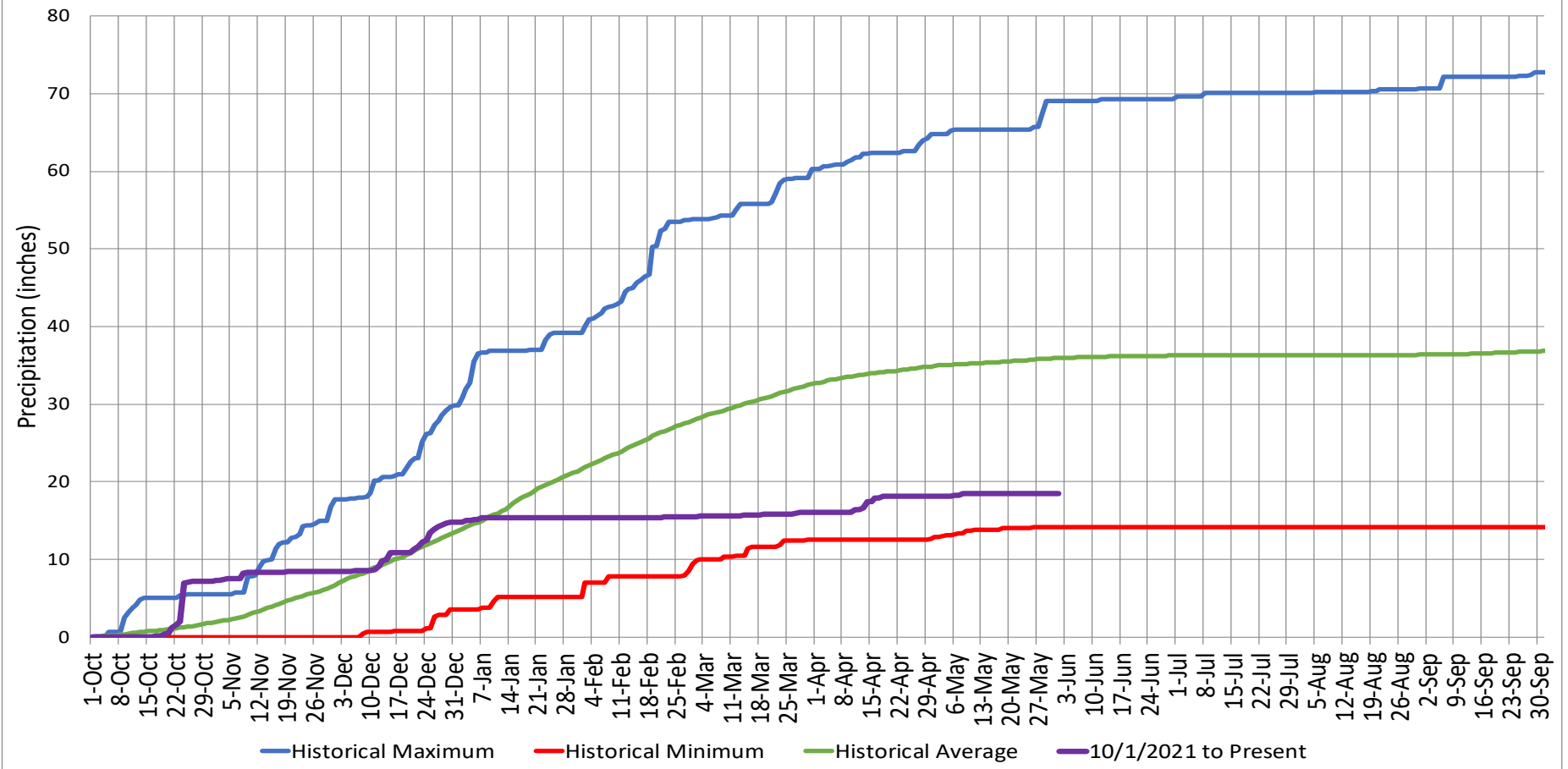
Hacienda Bridge



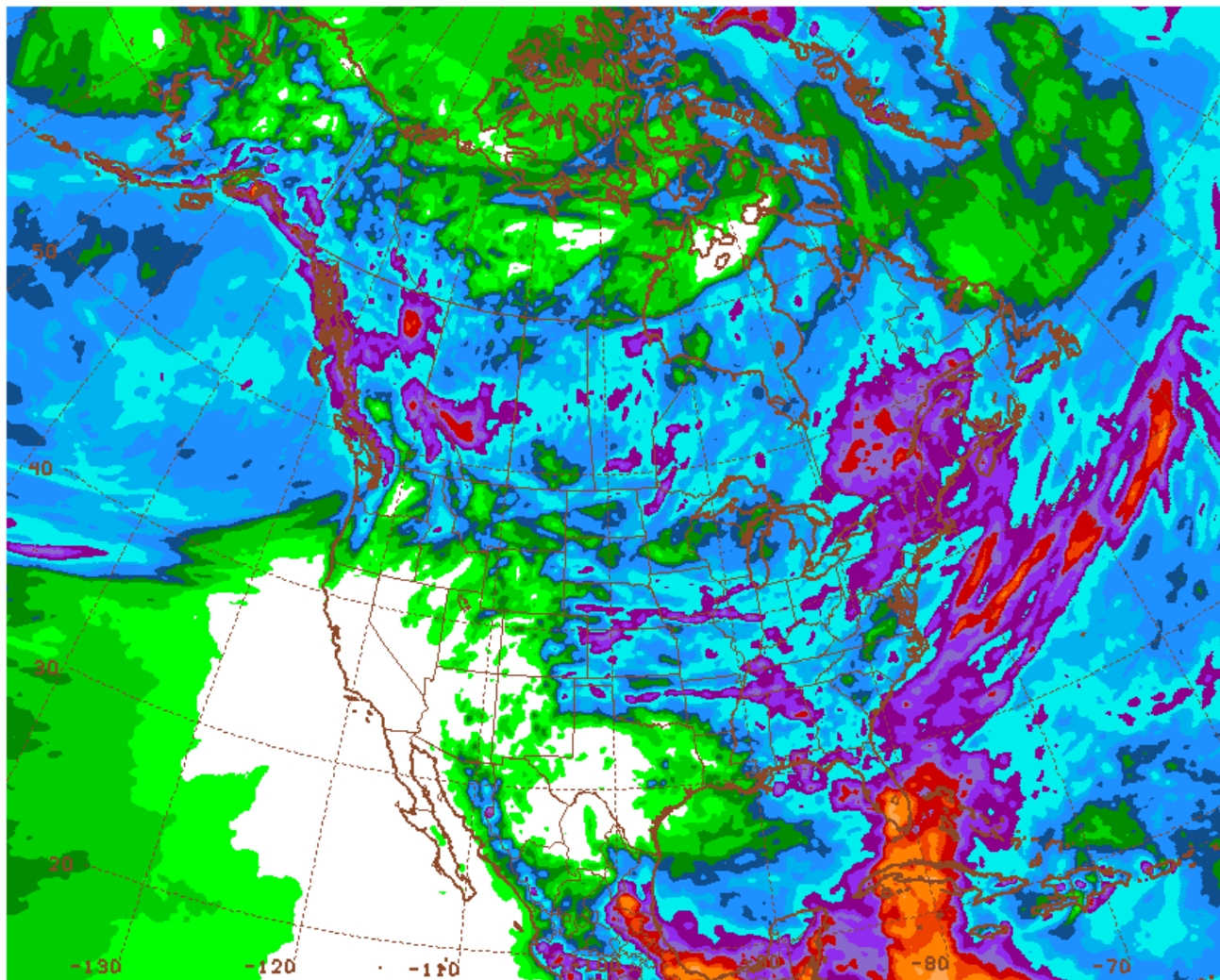
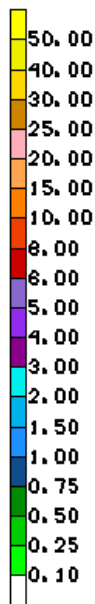
Precipitation

| | |
|--|---------------------|
| Ukiah Municipal Airport (WBAN: 72590523275 (KUKI)) | |
| Date Range | Cumulative (inches) |
| Oct 1, 2021 - Jun 2, 2022 | 18.54 |
| Last 7 Days* | 0.01 |

Cumulative Precipitation Comparison of Current Year versus Historic Record



GFS 06/06/22 12UTC 384HR FCST VALID WED 06/22/22 12UTC NOAA/NWS/NCEP



GFS WED 220622/1200V384 384HR ACCUMULATED PRECIP (IN)

Date Range
Jun 6 - Jun 22, 2022

Forecasted Cumulative (inches)
0.00