



**Sonoma
Water**

**State Water Resources Control Board
Temporary Urgency Change Order (12/11/2021)
Russian River Hydrologic Report
January 7, 2022 - January 13, 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).

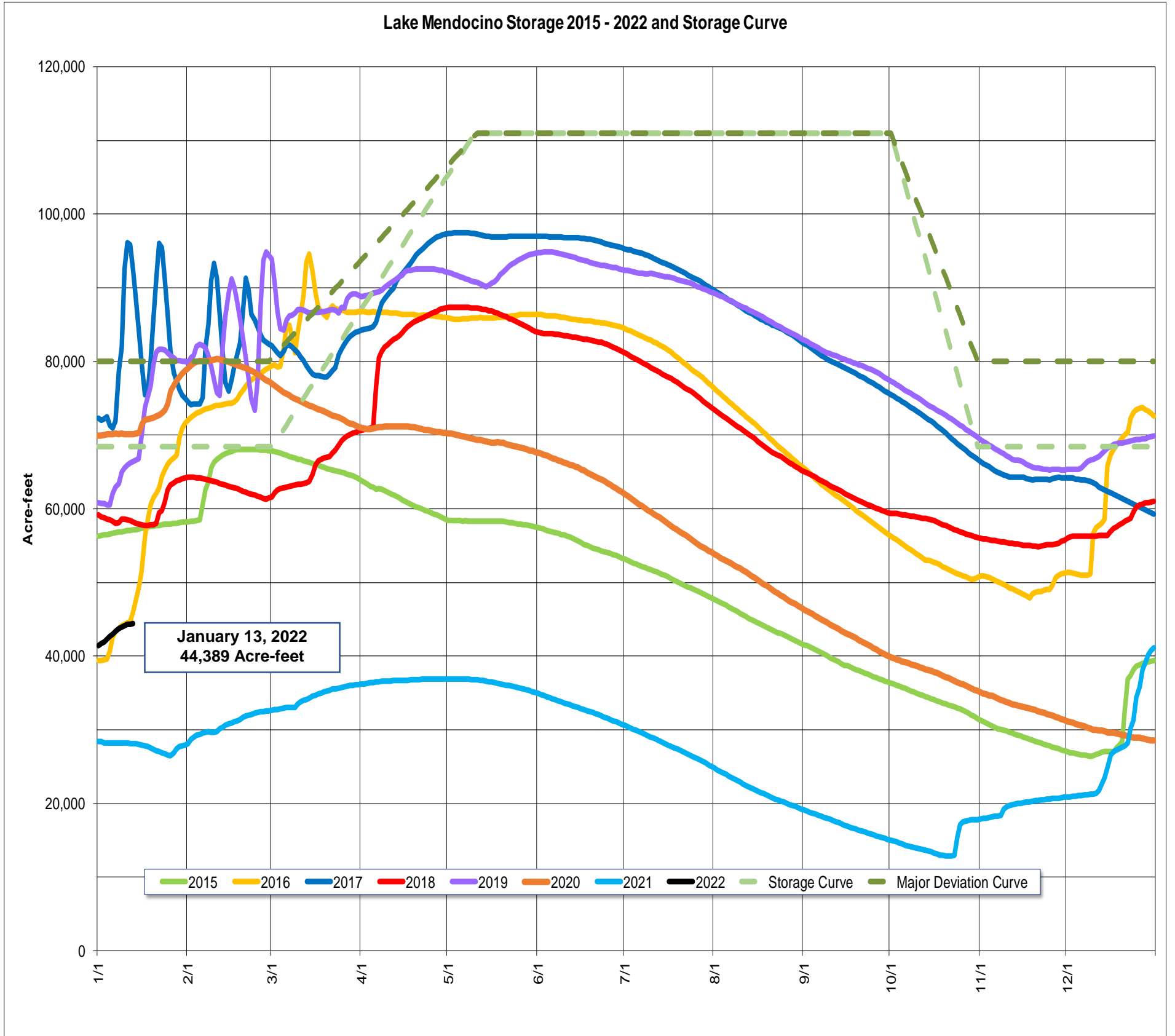
Instream Flow Requirements as of January 13, 2022

| Basis | Reach | Instantaneous (cfs) | 5-day Average (cfs) |
|--------------------------------------|---------------------|---------------------|---------------------|
| Modified Per Order: Normal Condition | Upper Russian River | 150 | - |
| Modified Per Order: Normal Condition | Dry Creek | 75 | - |
| Modified Per Order: Normal Condition | Lower Russian River | 125 | - |

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

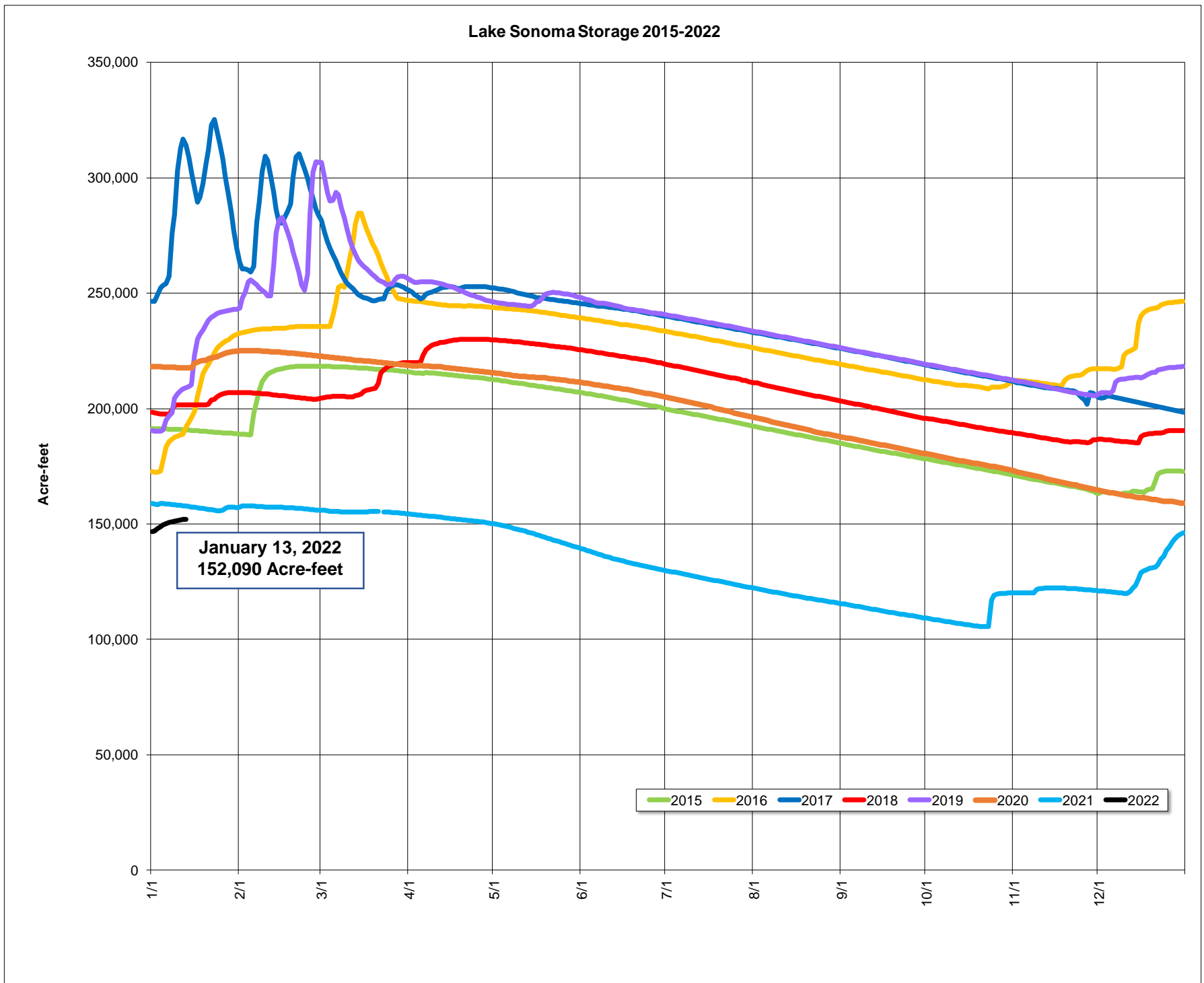


| | | | |
|-------------------------------|------------------|---------------|--------------------|
| Storage (acre-feet) | January 13, 2022 | 44,389 | |
| | | Total | Average Daily Rate |
| Change in Storage (acre-feet) | Last 30 days | 20,944 | 698 |
| | Last 7 days | 1,015 | 145 |
| Daily Inflow (cfs) | Last 7 days | Min | 105 |
| | | Max | 244 |
| | | Mean | 154 |
| Release (cfs) | Last 7 days | Min | 27 |
| | | Max | 87 |
| | | Mean | 48 |

Lake Sonoma



Nathan Baskett, March 3 , 2011



| | | | |
|-------------------------------|------------------|----------------|--------------------|
| Storage (acre-feet) | January 13, 2022 | 152,090 | |
| | | Total | Average Daily Rate |
| Change in Storage (acre-feet) | Last 30 days | 34,515 | 1,151 |
| | Last 7 days | 1,450 | 207 |
| Daily Inflow (cfs) | Last 7 days | Min | 146 |
| | | Max | 346 |
| | | Mean | 222 |
| Release (cfs) | Last 7 days | Min | 76 |
| | | Max | 77 |
| | | Mean | 77 |

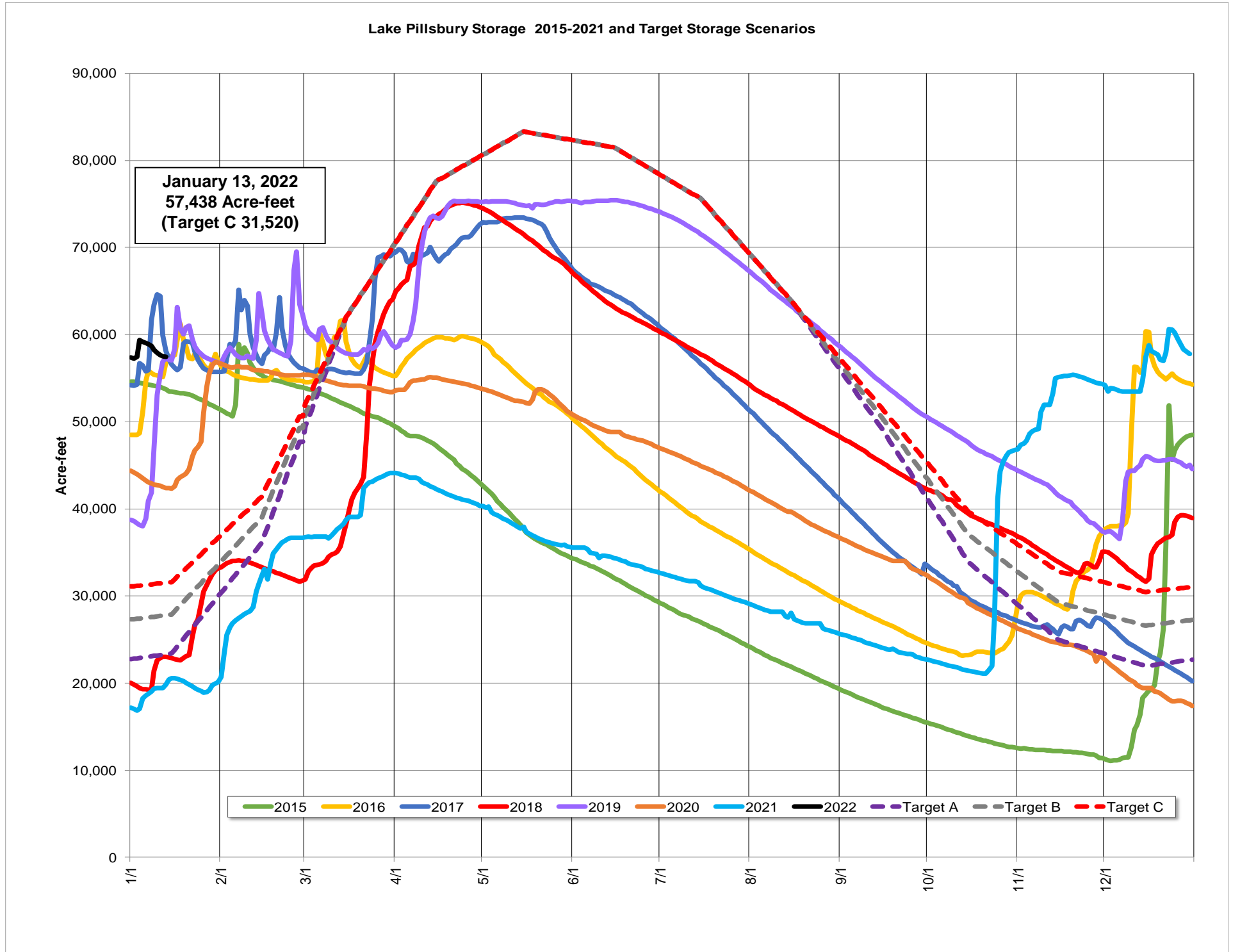
Potter Valley Project

| | | |
|---------------------|------------------|----|
| PVP Diversion (cfs) | January 13, 2022 | 46 |
|---------------------|------------------|----|

Lake Pillsbury

| Parameter | Date Range | Cumulative | Daily Average |
|---------------------|------------------------------------|------------|---------------|
| Inflow* (acre-feet) | October 1, 2021 - January 13, 2022 | 155,512 | 1495 |
| | Last 7 days | 13,574 | 1,939 |

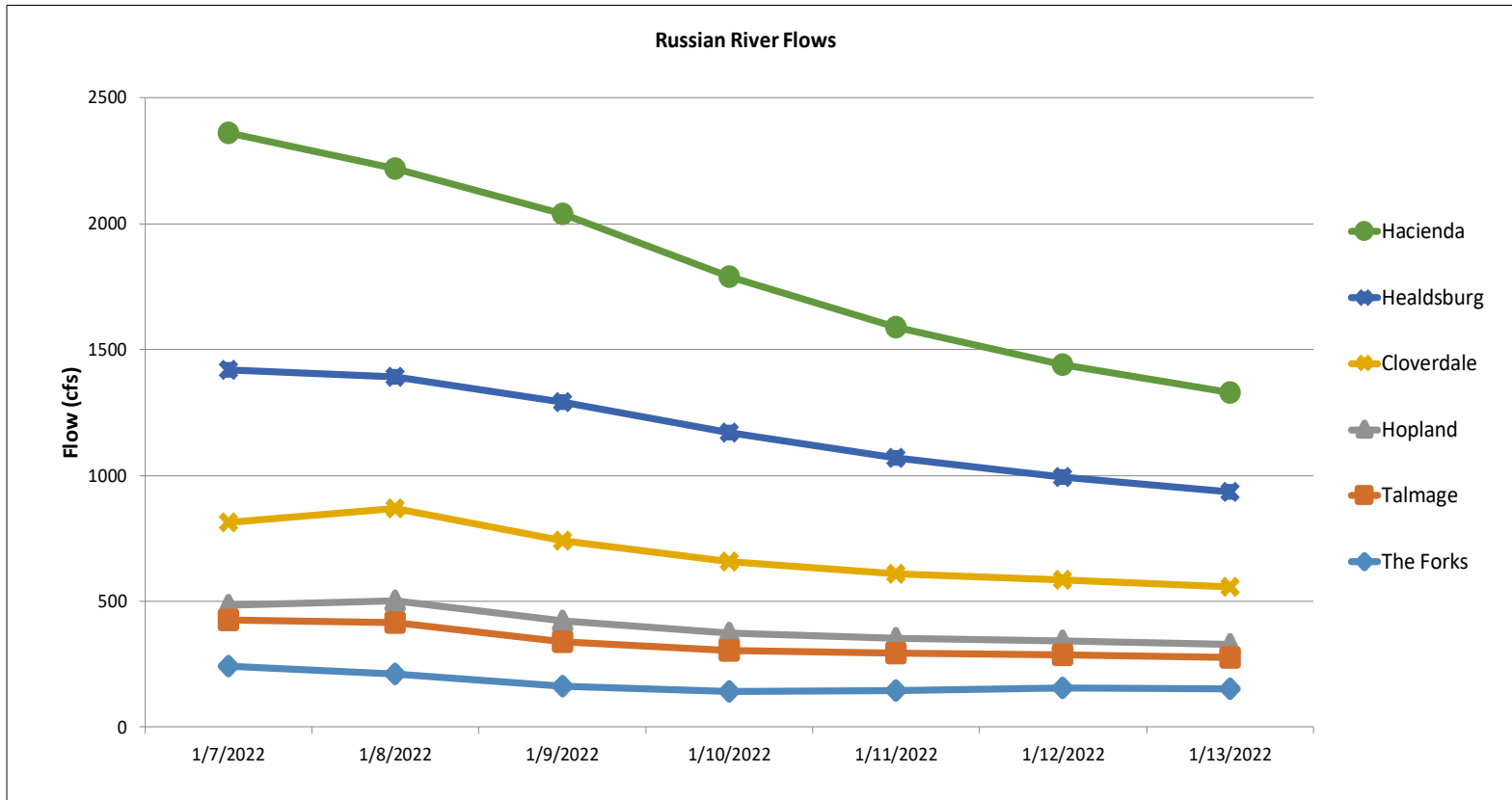
*Inflow calculation based on criteria established in D1610



Russian River Flows (January 7, 2022 - January 13, 2022)

| Gage | 24-hr Average Flow (cfs) | | | | | | |
|-----------------------------|--------------------------|-------------|-------------|--------------|--------------|--------------|--------------|
| | Jan 7, 2022 | Jan 8, 2022 | Jan 9, 2022 | Jan 10, 2022 | Jan 11, 2022 | Jan 12, 2022 | Jan 13, 2022 |
| The Forks* | 242 | 213 | 164 | 143 | 145 | 156 | 152 |
| Talmage USGS 11462080 | 426 | 415 | 340 | 303 | 293 | 288 | 277 |
| Hopland USGS 11462500 | 485 | 502 | 421 | 372 | 352 | 342 | 329 |
| Cloverdale USGS 11463000 | 813 | 868 | 740 | 657 | 610 | 583 | 558 |
| Healdsburg USGS 11464000 | 1420 | 1390 | 1290 | 1170 | 1070 | 994 | 933 |
| Hacienda USGS 11467000 | 2360 | 2220 | 2040 | 1790 | 1590 | 1440 | 1330 |

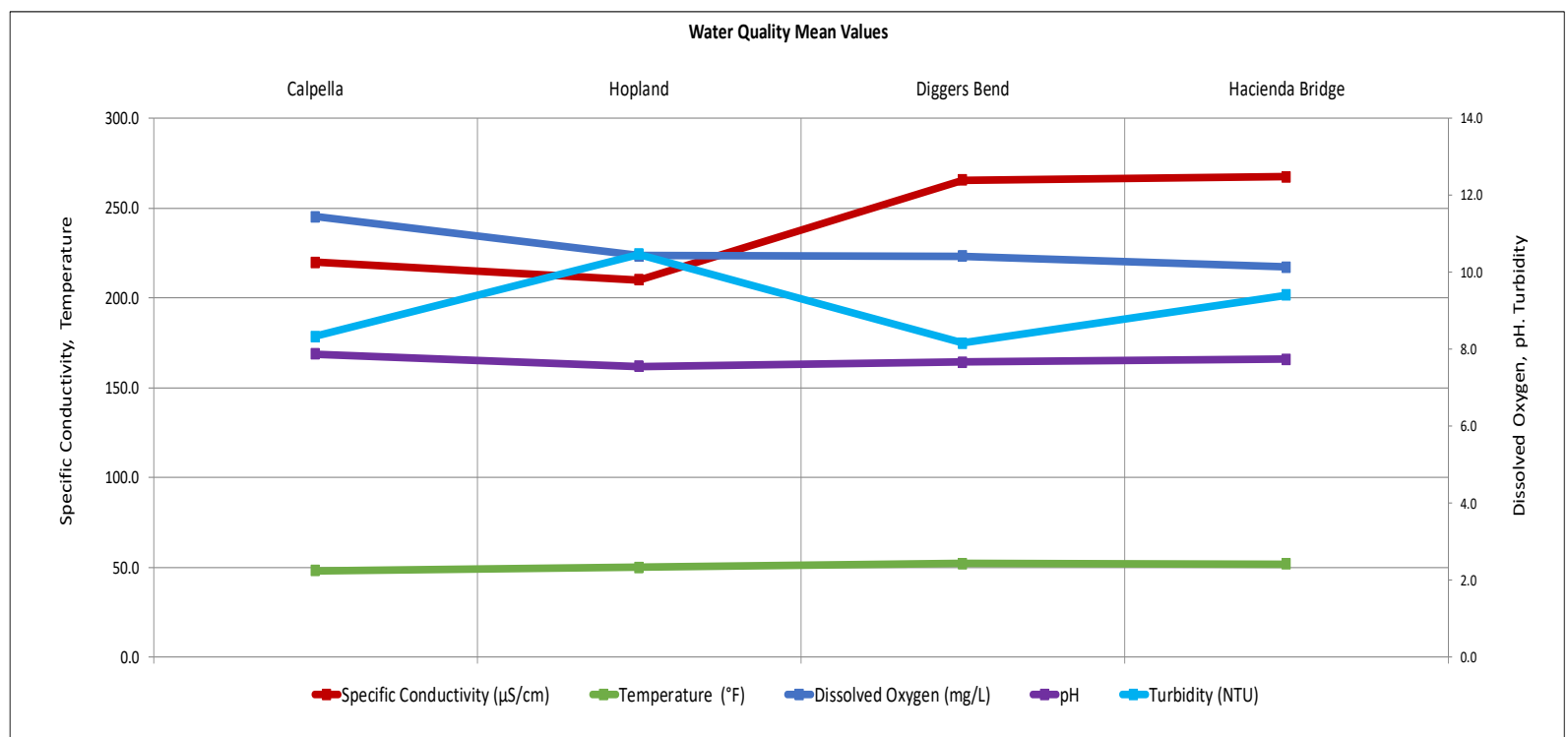
*West Fork (USGS 11461000) + East Fork (Coyote Valley Dam Release)



Russian River Water Quality (January 7, 2022 - January 13, 2022)

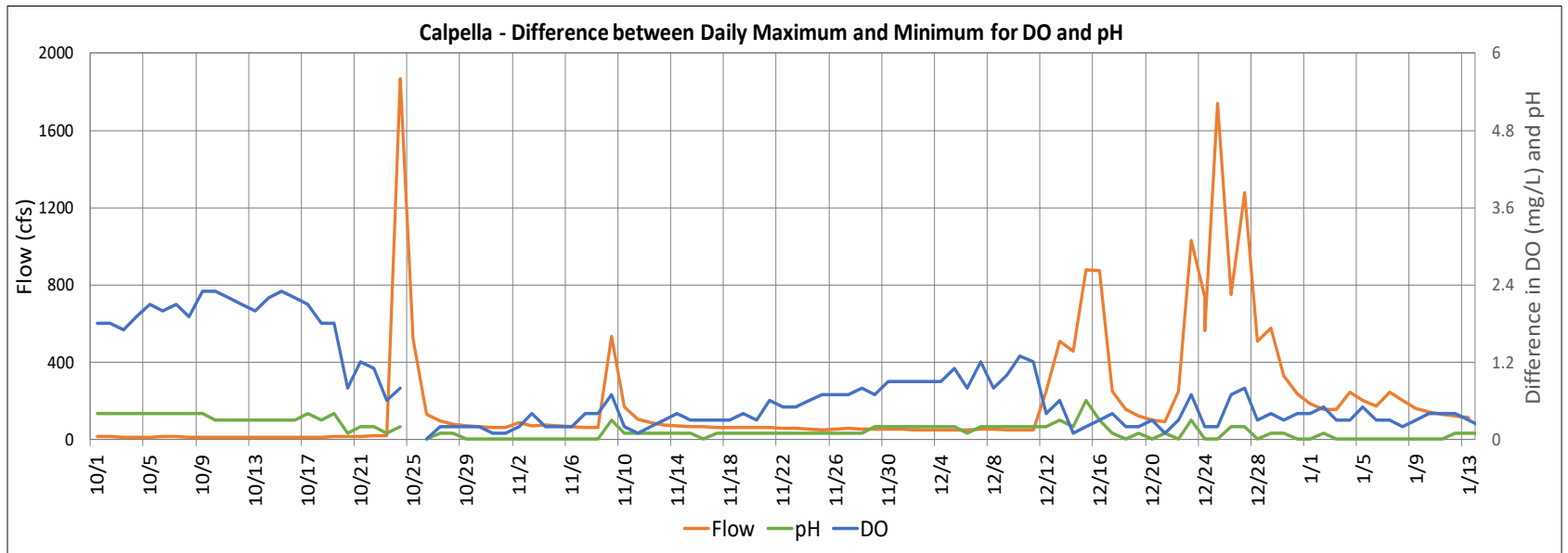
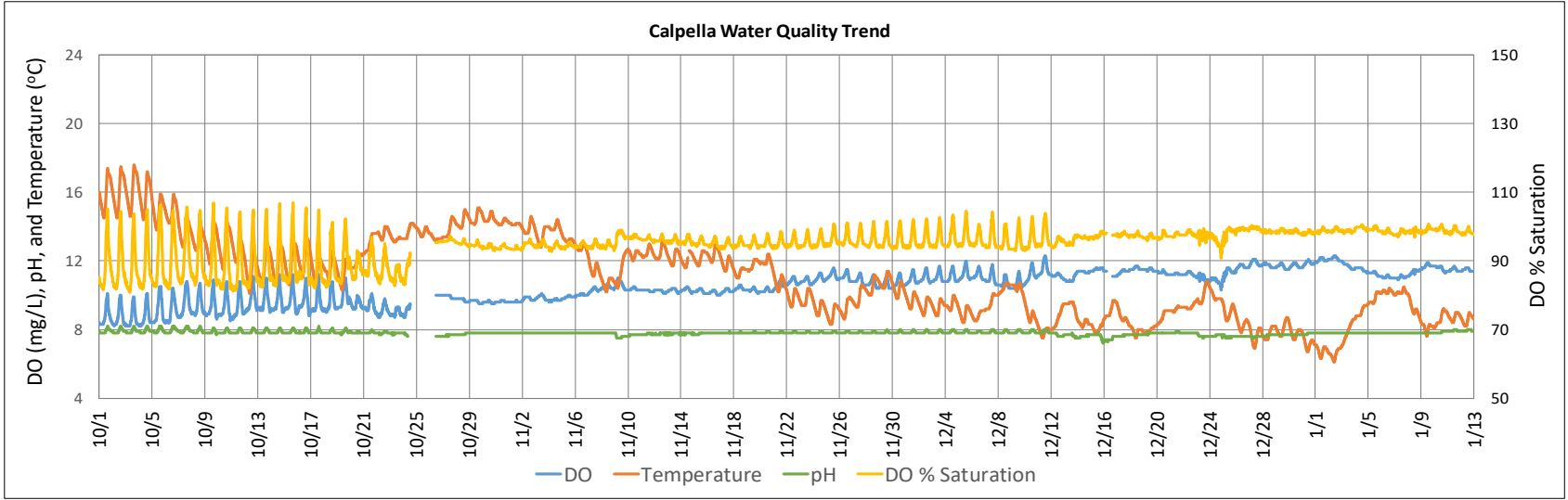
| Parameter | | Calpella | Hopland | Cloverdale* | Jimtown* | Diggers Bend | River Diversion System at Mirabel* | Hacienda Bridge | Johnsons Beach* |
|---------------------------------|------|---------------|---------------|---------------|---------------|---------------|------------------------------------|-----------------|-----------------|
| | | USGS 11461500 | USGS 11462500 | USGS 11463200 | USGS 11463682 | USGS 11463980 | SCWA | USGS 11467000 | SCWA |
| Temperature (°F) | Min | 45.7 | 48.2 | | | 50.4 | | 50.5 | |
| | Max | 50.9 | 52.5 | | | 54.3 | | 54.1 | |
| | Mean | 48.0 | 50.0 | | | 52.0 | | 51.8 | |
| Specific Conductivity (µS/cm) | Min | 204.0 | 181.0 | | | 246.0 | | 248.0 | |
| | Max | 229.0 | 232.0 | | | 285.0 | | 283.0 | |
| | Mean | 219.6 | 209.9 | | | 265.5 | | 267.4 | |
| Dissolved Oxygen (mg/L) | Min | 10.9 | 9.9 | | | 10.0 | | 9.7 | |
| | Max | 11.9 | 10.7 | | | 10.9 | | 10.4 | |
| | Mean | 11.4 | 10.4 | | | 10.4 | | 10.1 | |
| Dissolved Oxygen (% Saturation) | Min | 96.9 | 89.8 | | | 92.6 | | 89.6 | |
| | Max | 100.7 | 94.1 | | | 99.5 | | 94.3 | |
| | Mean | 98.7 | 92.2 | | | 94.6 | | 91.8 | |
| pH | Min | 7.8 | 7.5 | | | 7.6 | | 7.6 | |
| | Max | 8.0 | 7.6 | | | 7.7 | | 7.8 | |
| | Mean | 7.9 | 7.6 | | | 7.7 | | 7.7 | |
| Turbidity (NTU) | Min | 4.7 | 6.0 | | | 4.0 | | 5.2 | |
| | Max | 20.3 | 39.6 | | | 17.0 | | 12.7 | |
| | Mean | 8.3 | 10.5 | | | 8.2 | | 9.4 | |

*Station operated seasonally



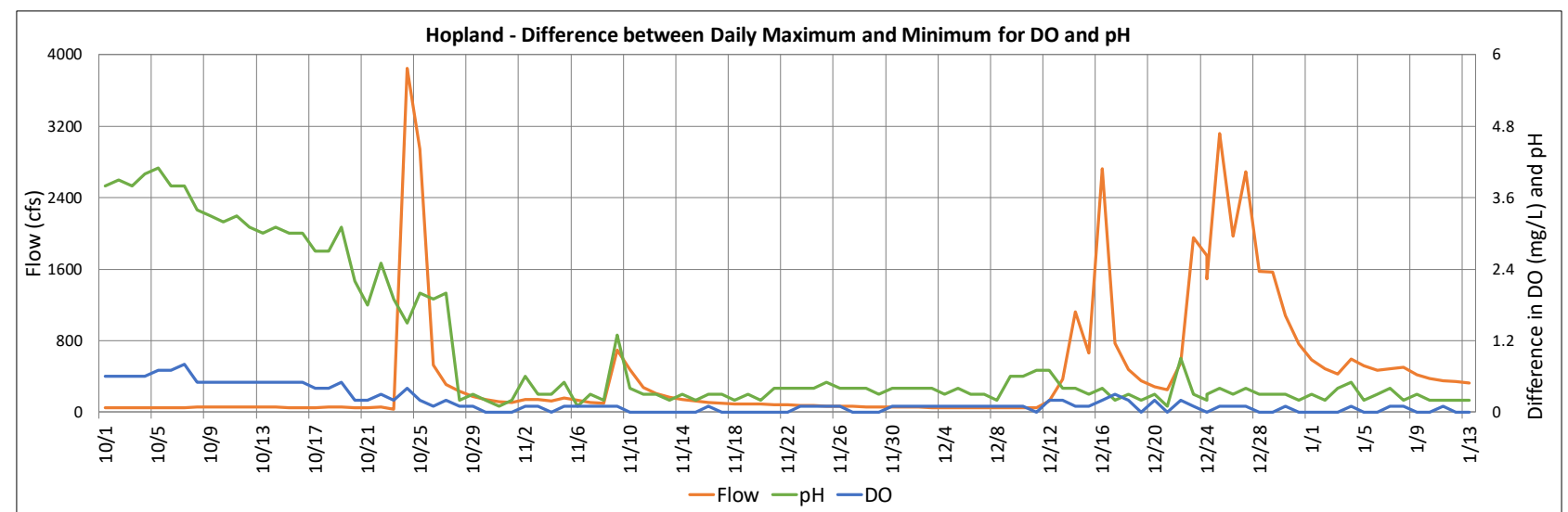
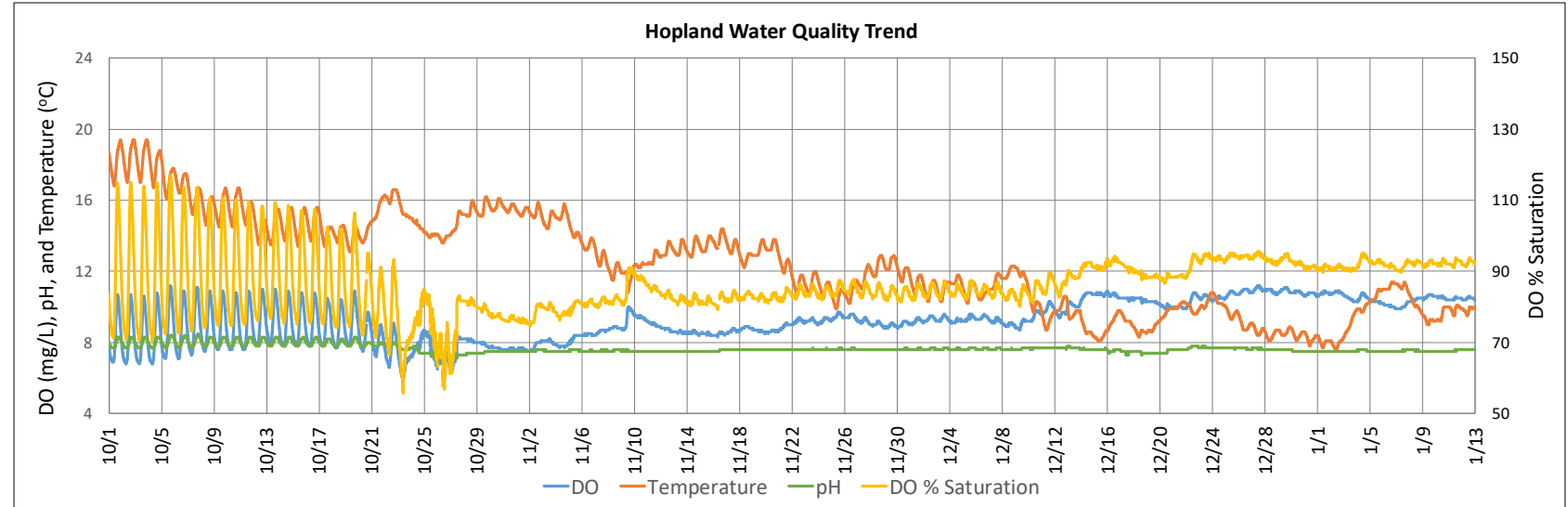
Russian River Water Quality (October 1, 2021 - January 13, 2022)

Calpella (East Fork Russian River)



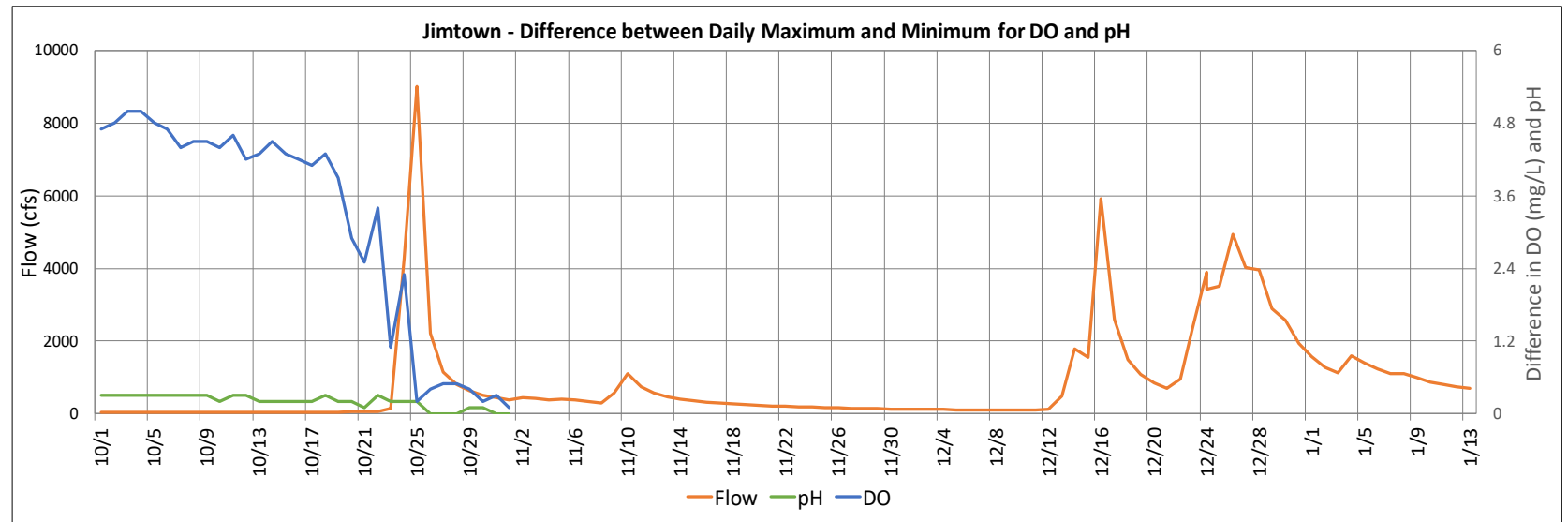
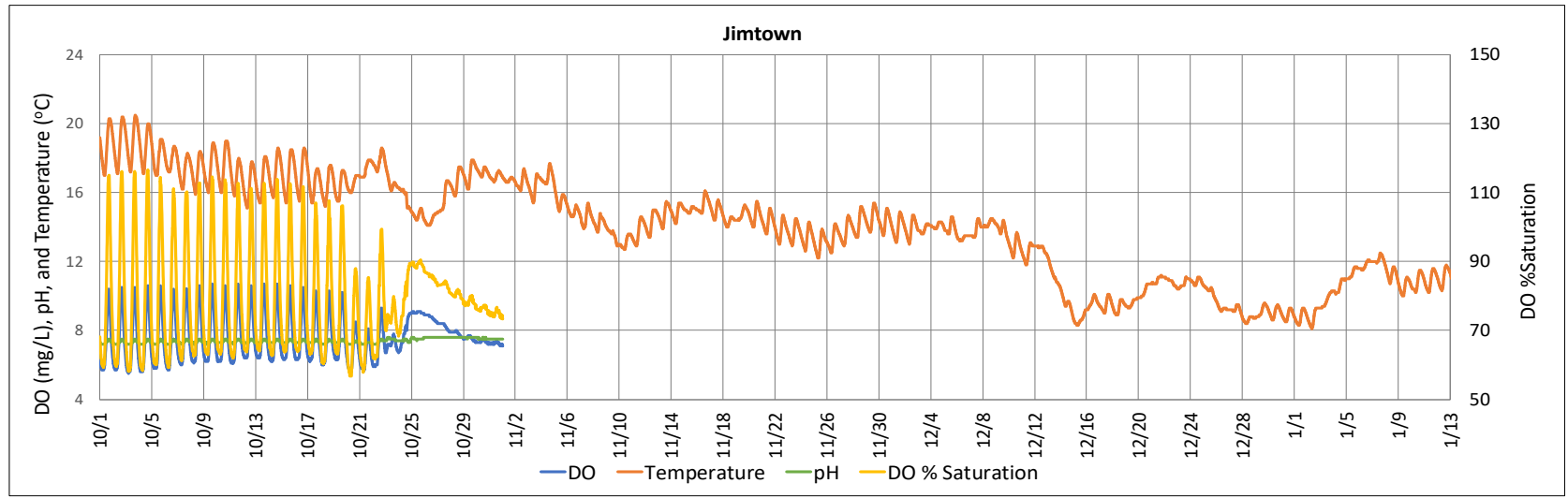
Russian River Water Quality (October 1, 2021 - January 13, 2022)

Hopland



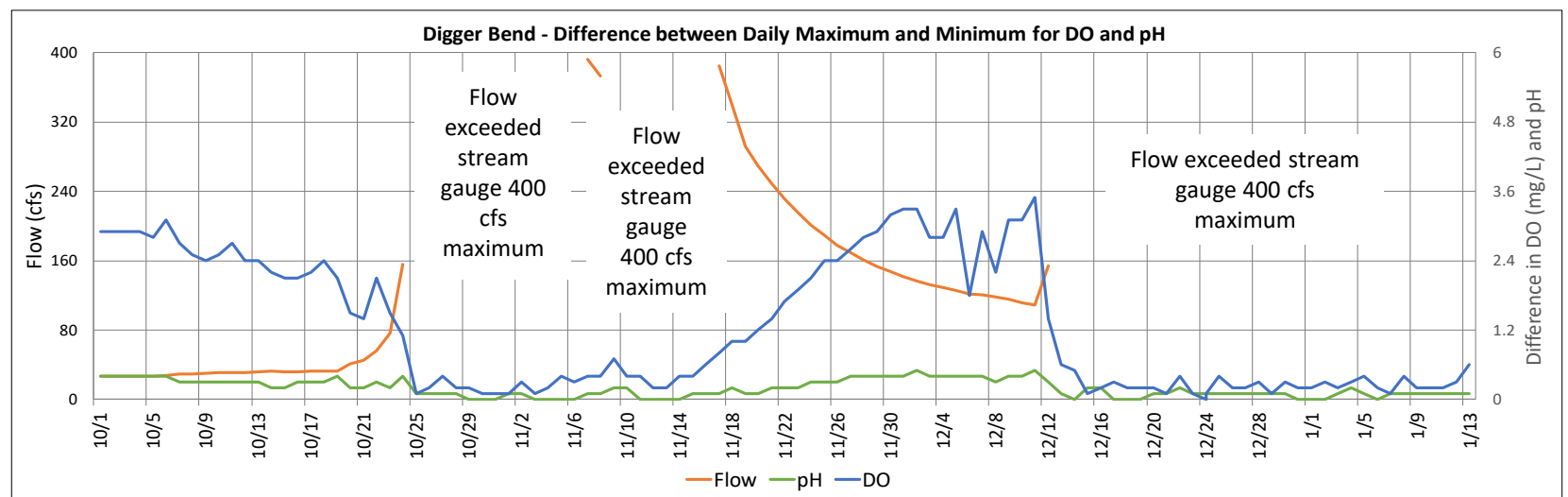
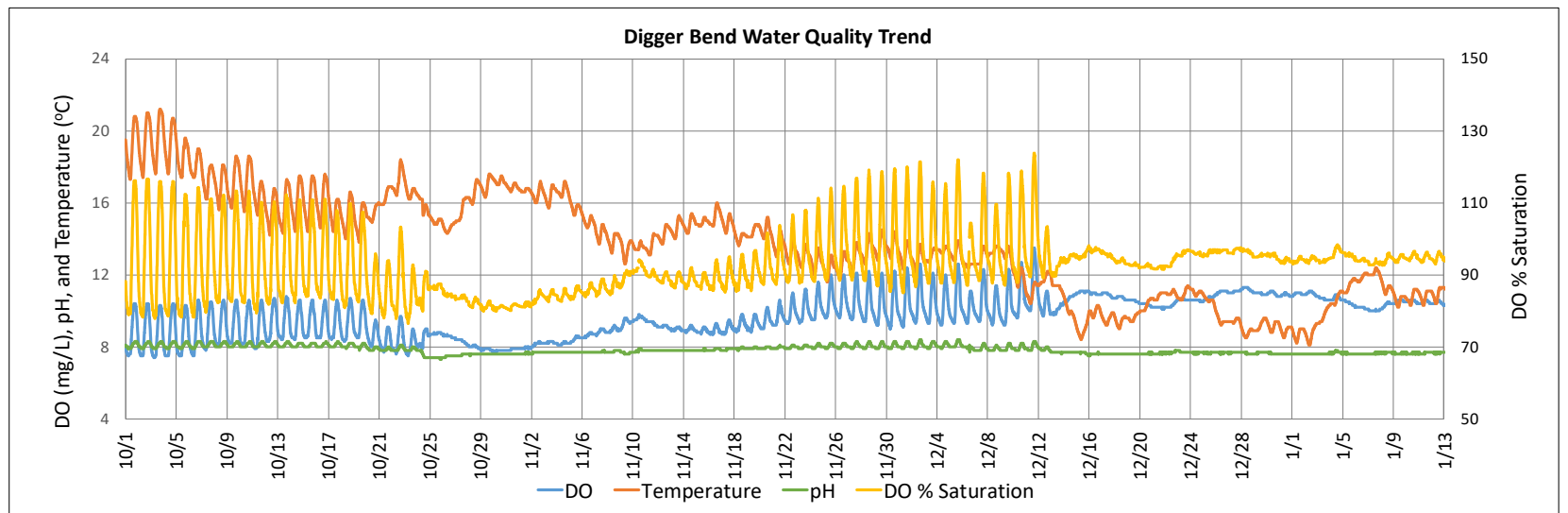
Russian River Water Quality (October 1, 2021 - January 13, 2022)

Jimtown



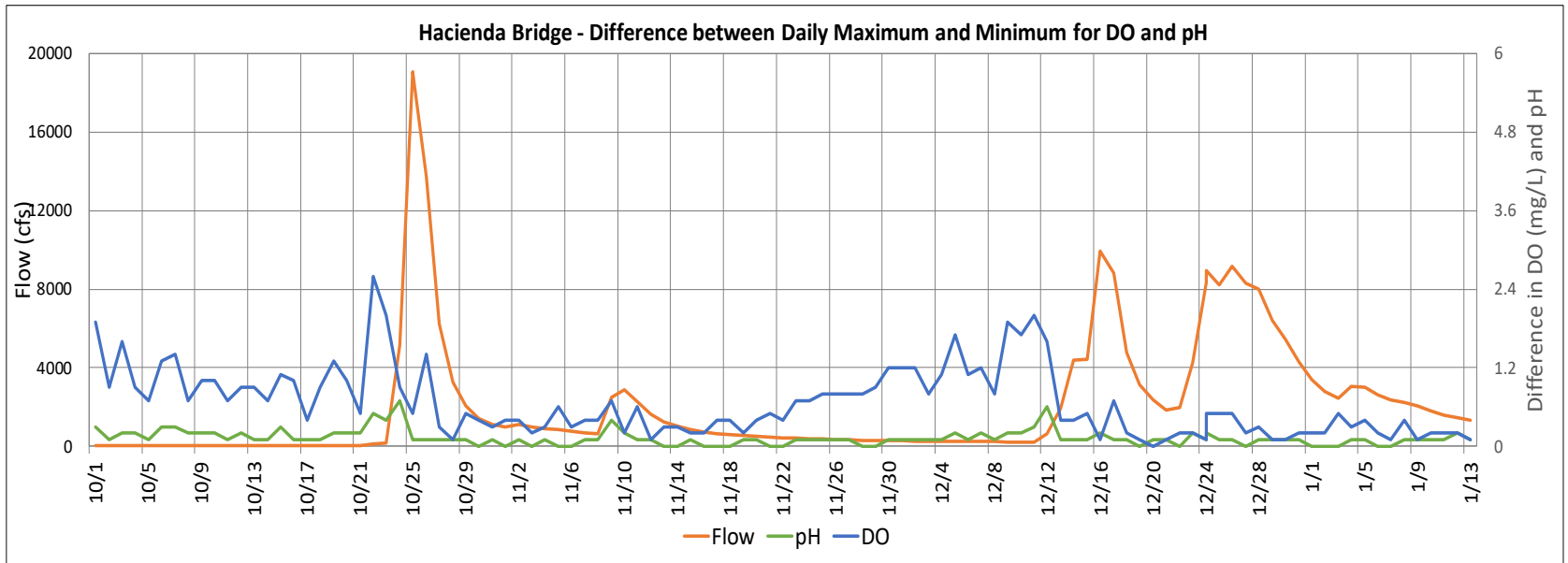
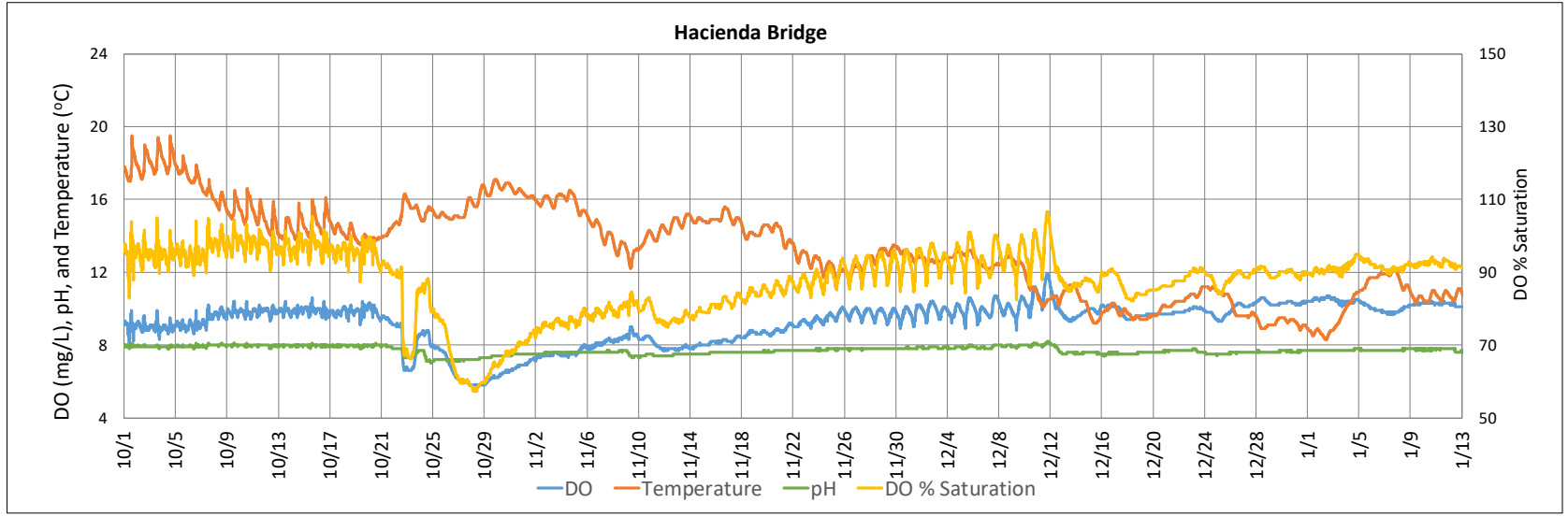
Russian River Water Quality (October 1, 2021 - January 13, 2022)

Digger Bend



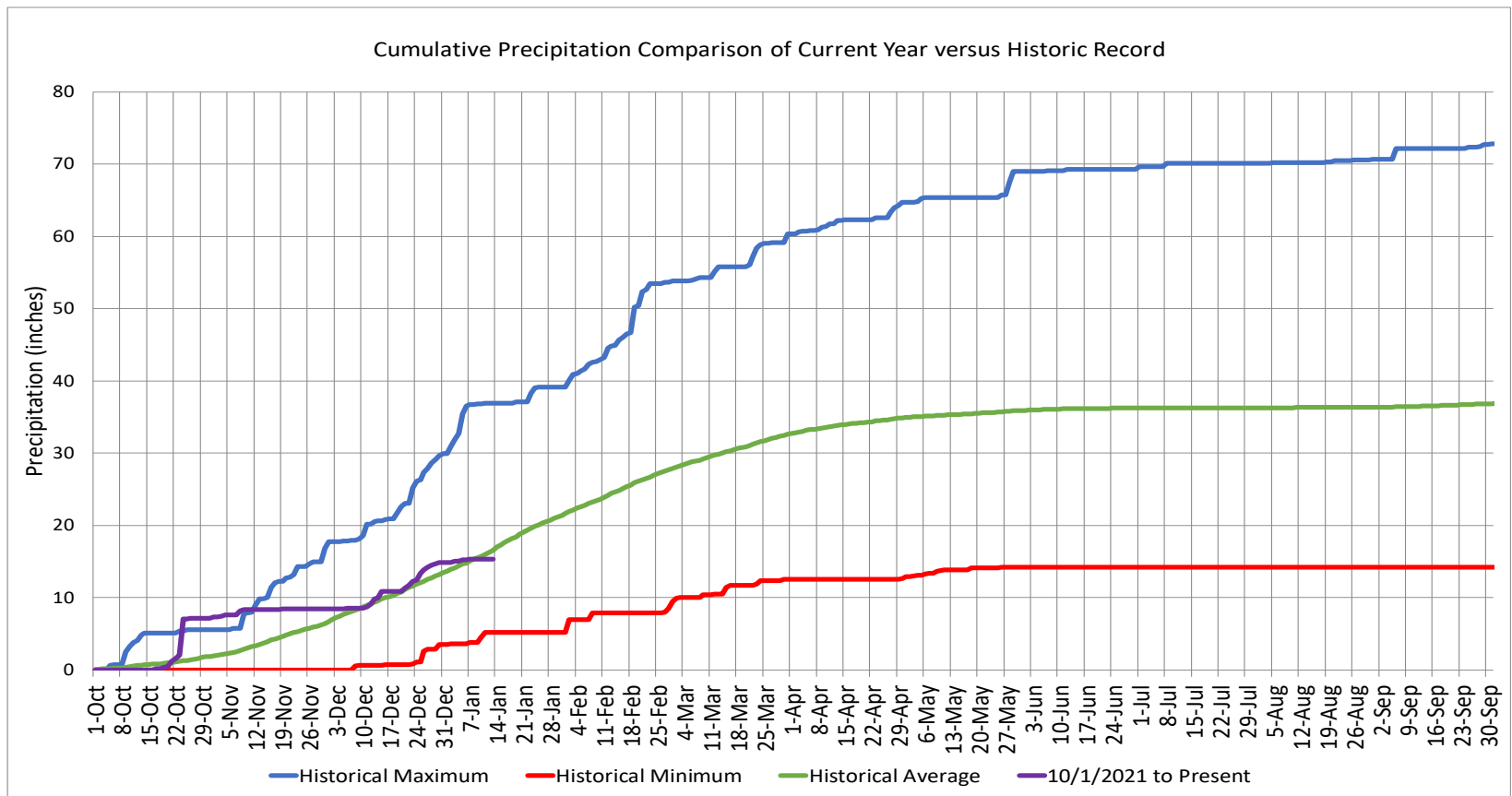
Russian River Water Quality (October 1, 2021 - January 13, 2022)

Hacienda Bridge



Precipitation

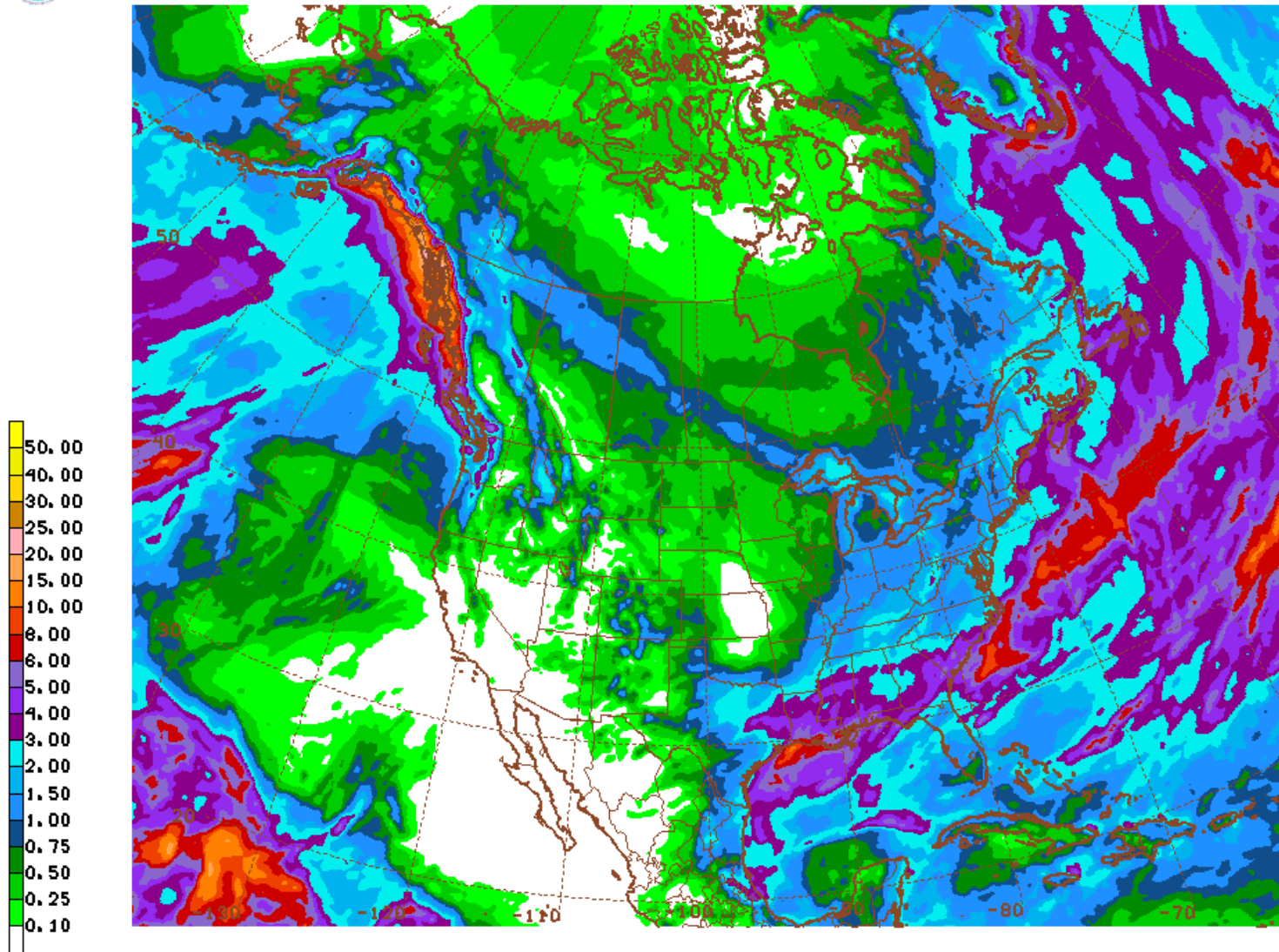
| | |
|--|---------------------|
| Ukiah Municipal Airport (WBAN: 72590523275 (KUKI)) | |
| Date Range | Cumulative (inches) |
| Oct 1, 2021 - Jan 13, 2022 | 15.37 |
| Last 7 Days* | 0.17 |



Global Forecast System Model 16-day Cumulative Precipitation Forecast



BFS 01/18/22 12UTC 384HR FCST VALID THU 02/03/22 12UTC NOAA/NWS/NCEP



BFS THU 220203/1200V384 384HR ACCUMULATED PRECIP (IN)

Date Range
Jan 18 - Feb 3, 2022

Forecasted Cumulative (inches)
0.0