



**State Water Resources Control Board  
 Temporary Urgency Change Order (6/17/2022)  
 Russian River Hydrologic Report  
 October 21, 2022 - October 27, 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).

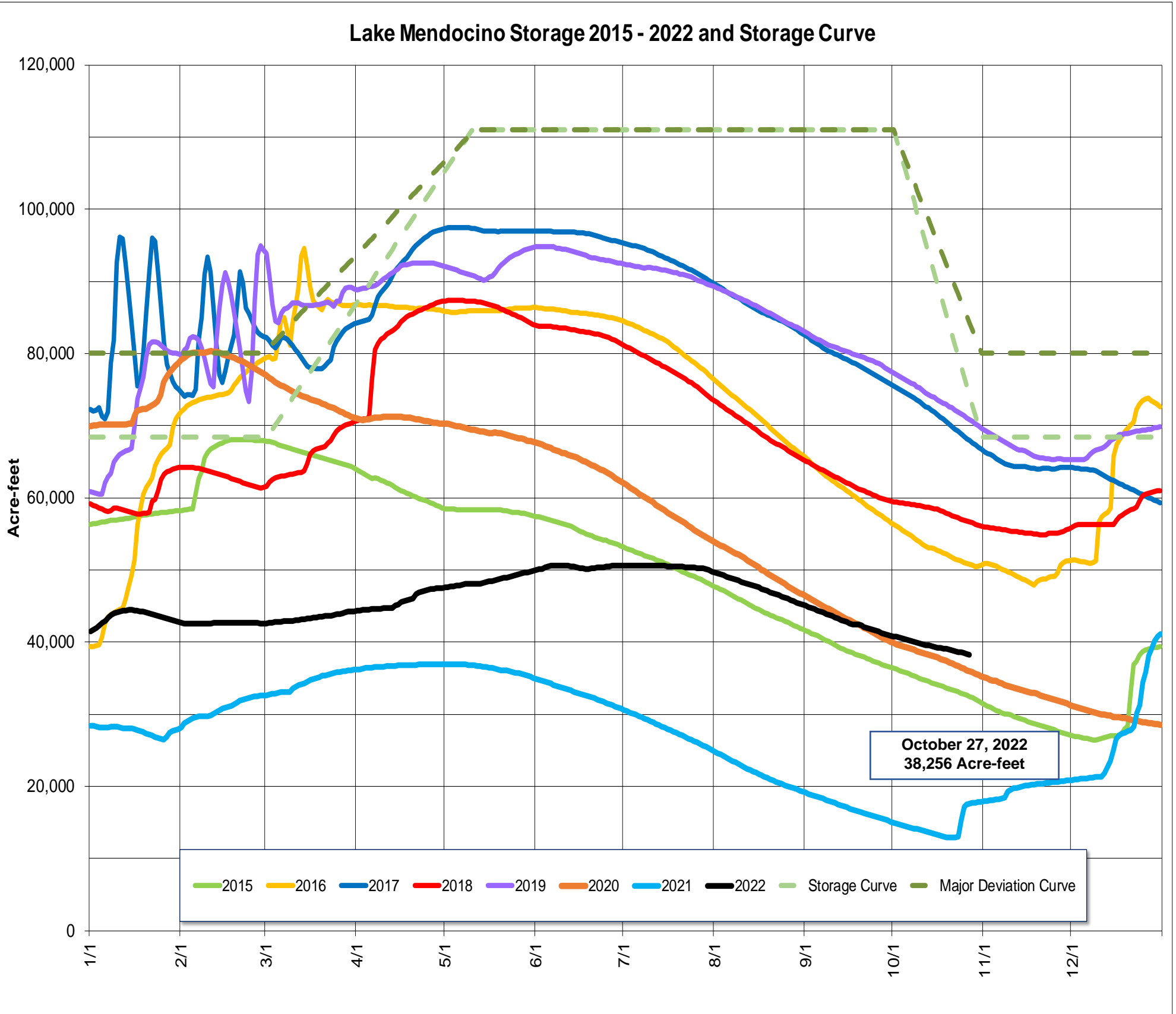
**Instream Flow Requirements as of October 27, 2022**

| Basis                                  | Reach               | Instantaneous (cfs) | 5-day Average (cfs) |
|--|---------------------|---------------------|---------------------|
| Modified Per Order: Critical Condition | Upper Russian River | <b>15</b>           | <b>25</b>           |
| D-1610: Normal Condition               | Dry Creek           | <b>80</b>           | <b>-</b>            |
| Modified Per Order: Critical Condition | Lower Russian River | <b>25</b>           | <b>35</b>           |

Upper and Lower Russian River based on criteria as established in the Order issued 6/17/2022.

**Lake Mendocino**

**Lake Mendocino Storage 2015 - 2022 and Storage Curve**

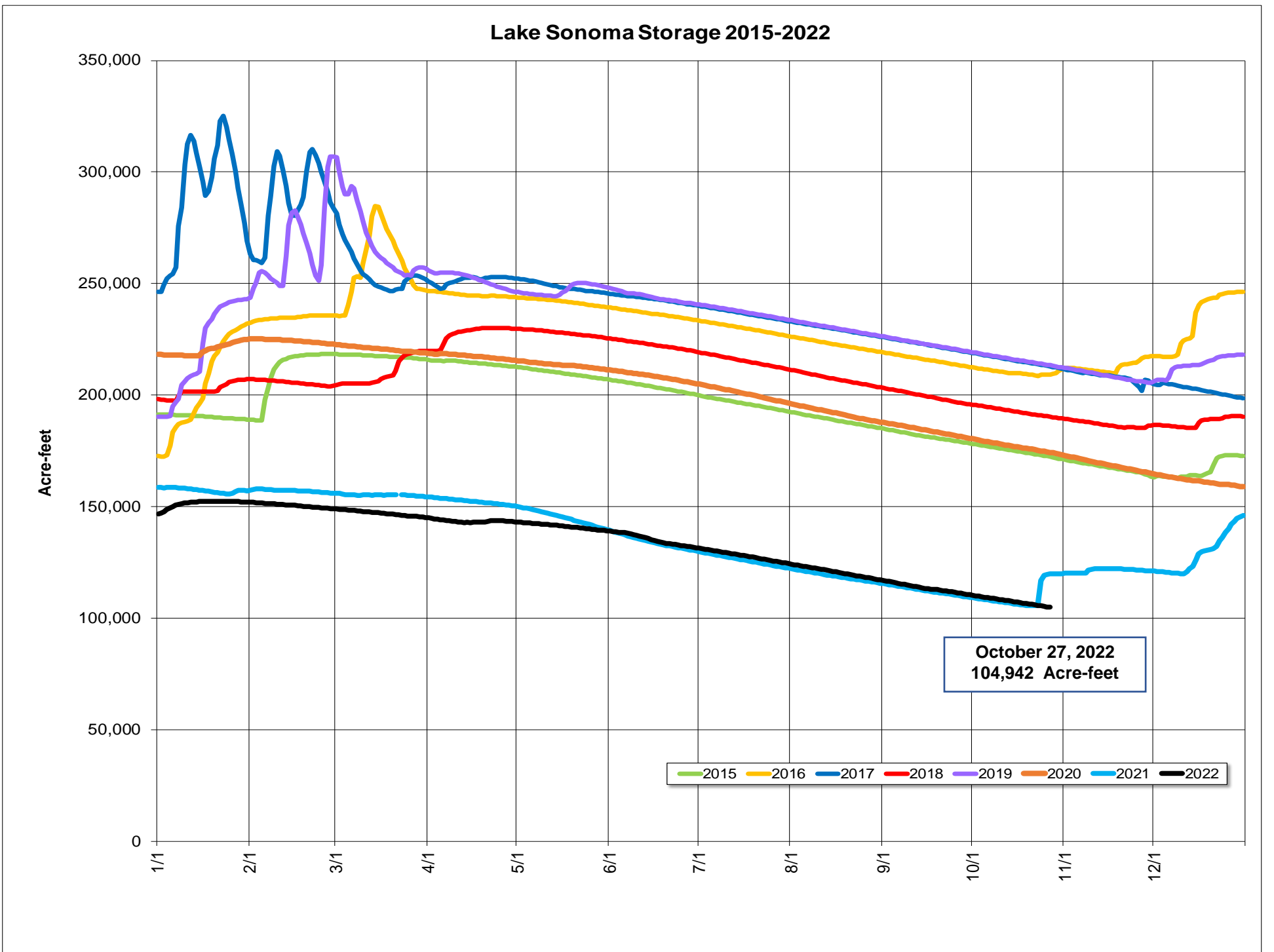


|                               |                  |               |                    |
|-------------------------------|------------------|---------------|--------------------|
| Storage (acre-feet)           | October 27, 2022 | <b>38,256</b> |                    |
| Change in Storage (acre-feet) | Last 30 days     | <b>-3,035</b> | Average Daily Rate |
|                               | Last 7 days      | <b>-696</b>   | <b>-99</b>         |
| Daily Inflow (cfs)            | Last 7 days      | Min           | <b>0</b>           |
|                               |                  | Max           | <b>18</b>          |
|                               |                  | Mean          | <b>7</b>           |
| Release (cfs)                 | Last 7 days      | Min           | <b>50</b>          |
|                               |                  | Max           | <b>51</b>          |
|                               |                  | Mean          | <b>51</b>          |

# Lake Sonoma



Nathan Baskett, March 3, 2011



|                               |                  |                |                    |
|-------------------------------|------------------|----------------|--------------------|
| Storage (acre-feet)           | October 27, 2022 | <b>104,942</b> |                    |
|                               |                  | Total          | Average Daily Rate |
| Change in Storage (acre-feet) | Last 30 days     | <b>-6,066</b>  | <b>-202</b>        |
|                               | Last 7 days      | <b>-1,257</b>  | <b>-180</b>        |
| Daily Inflow (cfs)            | Last 7 days      | Min            | <b>0</b>           |
|                               |                  | Max            | <b>4</b>           |
|                               |                  | Mean           | <b>1</b>           |
| Release (cfs)                 | Last 7 days      | Min            | <b>88</b>          |
|                               |                  | Max            | <b>92</b>          |
|                               |                  | Mean           | <b>88</b>          |

# Potter Valley Project

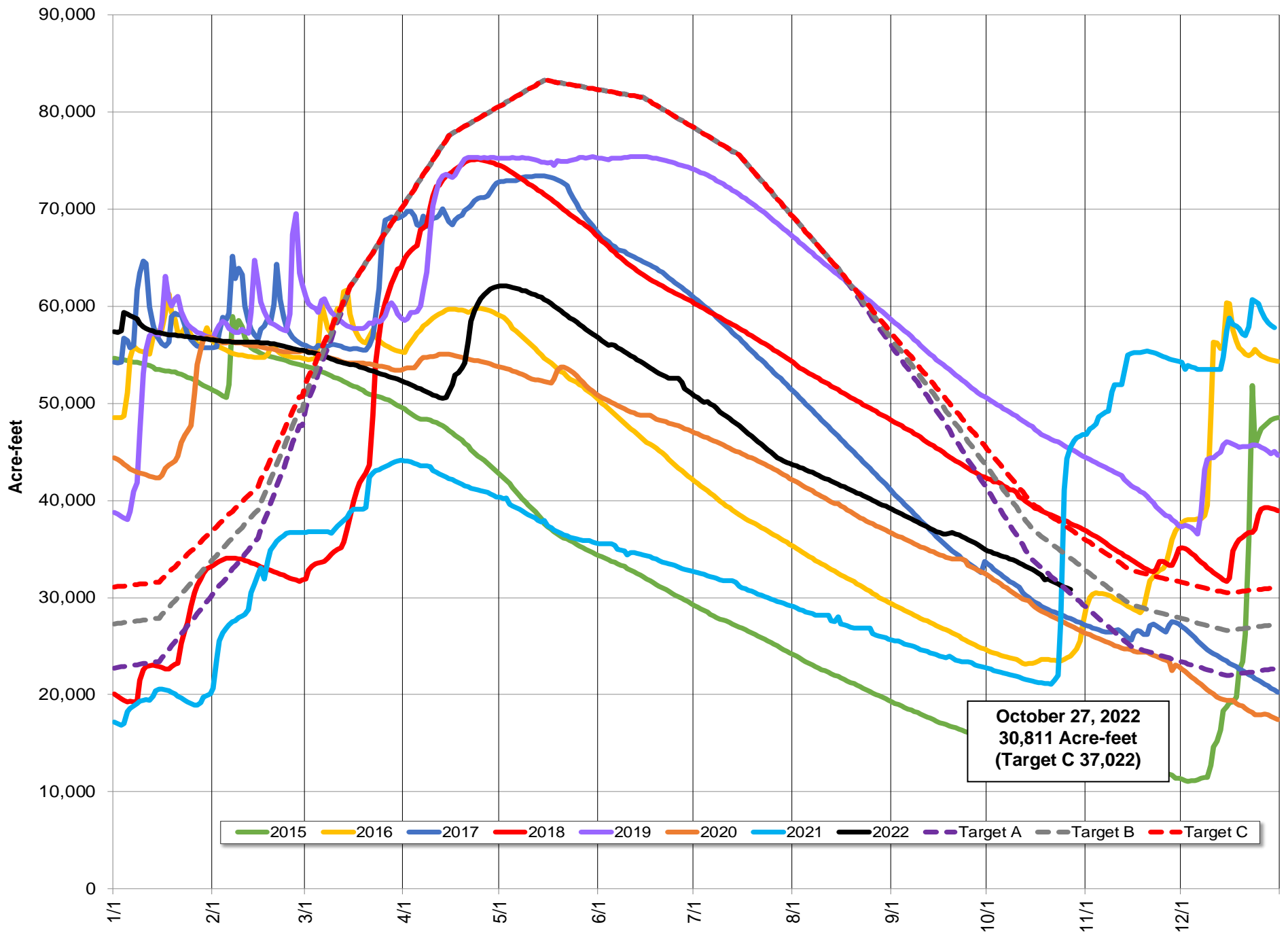
|                     |                  |    |
|---------------------|------------------|----|
| PVP Diversion (cfs) | October 27, 2022 | 25 |
|---------------------|------------------|----|

## Lake Pillsbury

| Parameter           | Date Range                         | Cumulative | Daily Average |
|---------------------|------------------------------------|------------|---------------|
| Inflow* (acre-feet) | October 1, 2022 - October 27, 2022 | 1,125      | 42            |
|                     | Last 7 days                        | 214        | 31            |

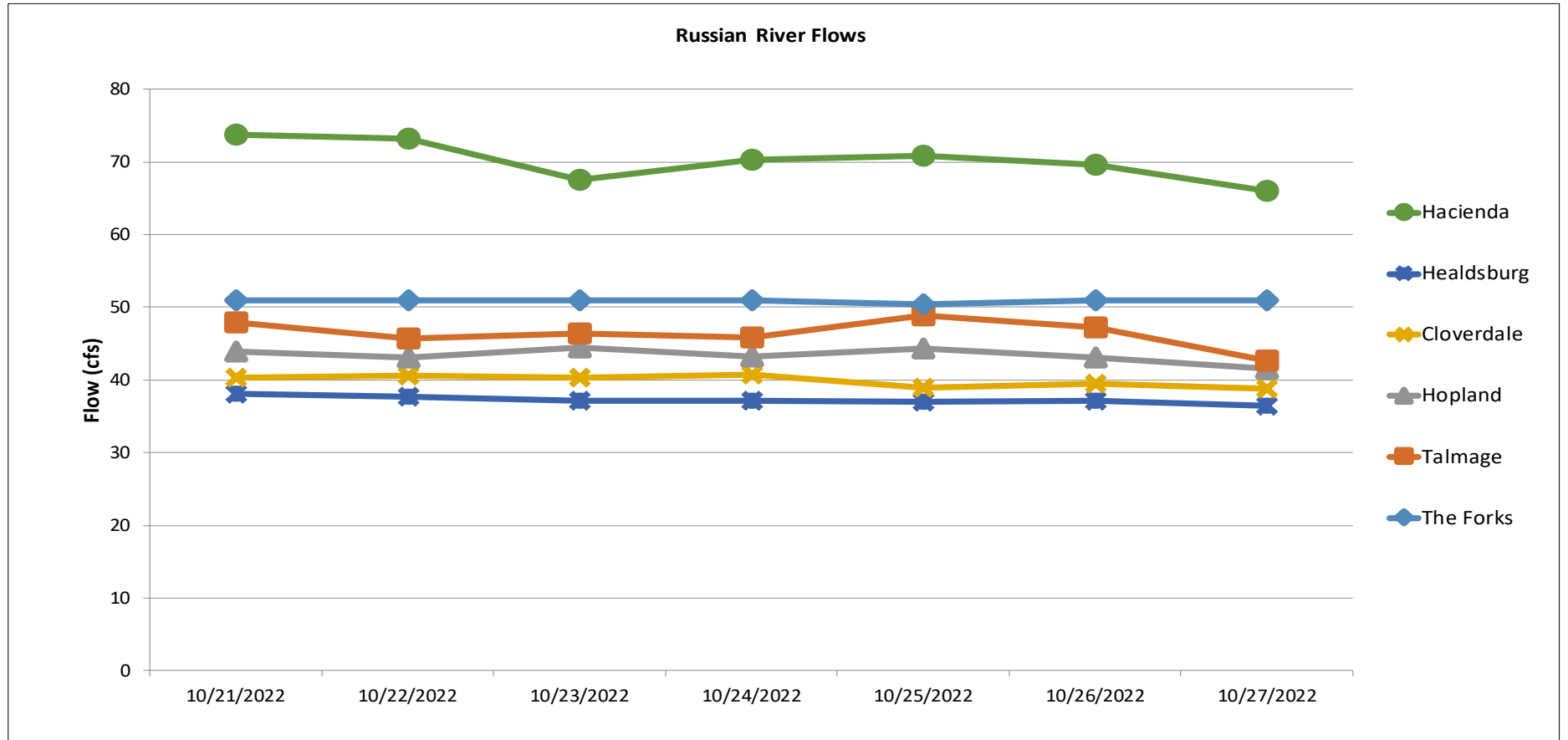
\*Inflow calculation based on criteria established in D1610

### Lake Pillsbury Storage 2015-2022 and Target Storage Scenarios

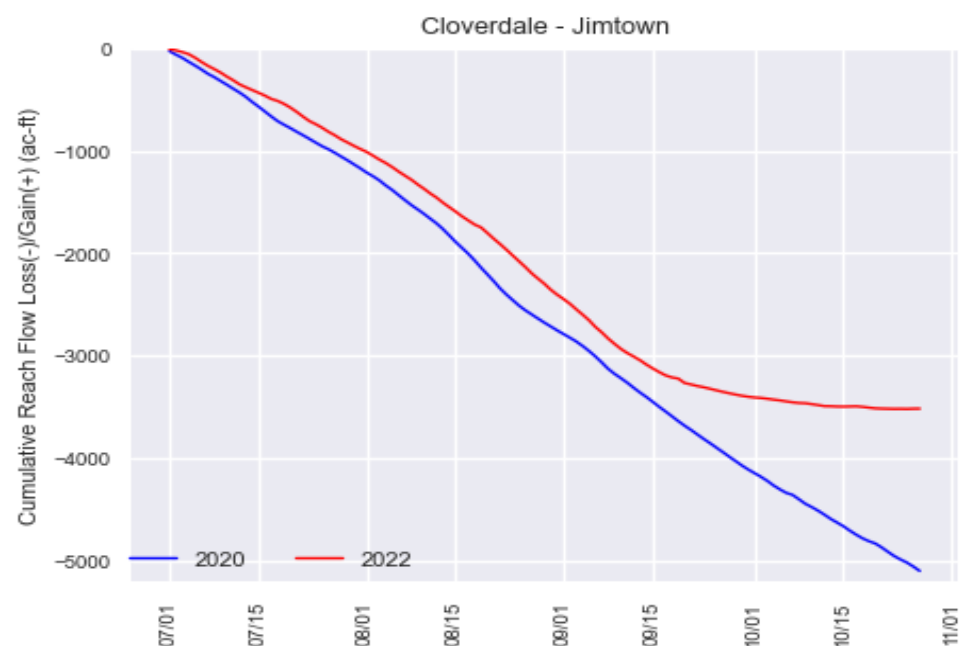
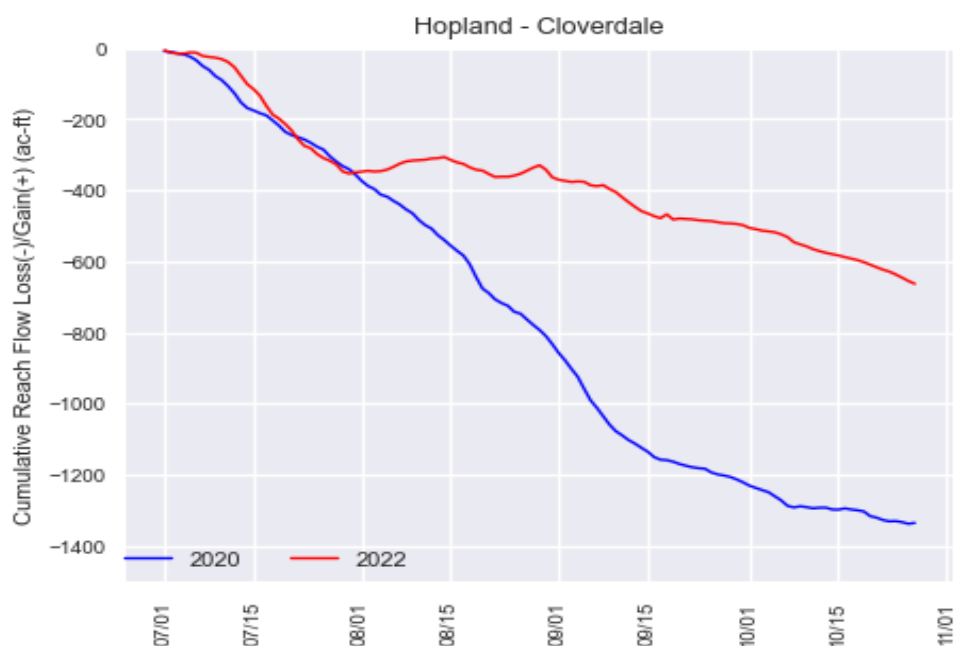
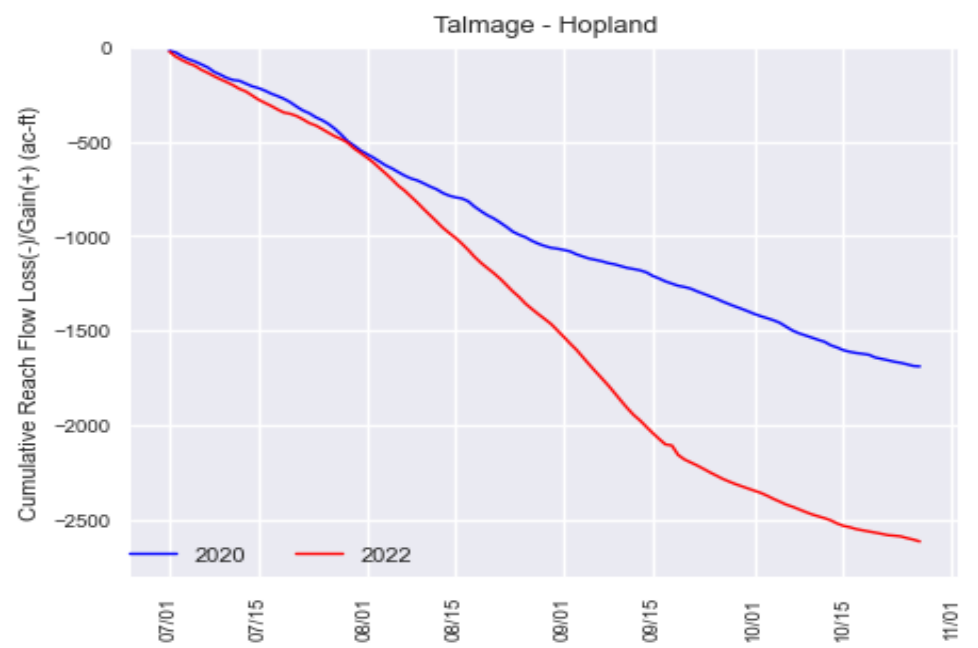
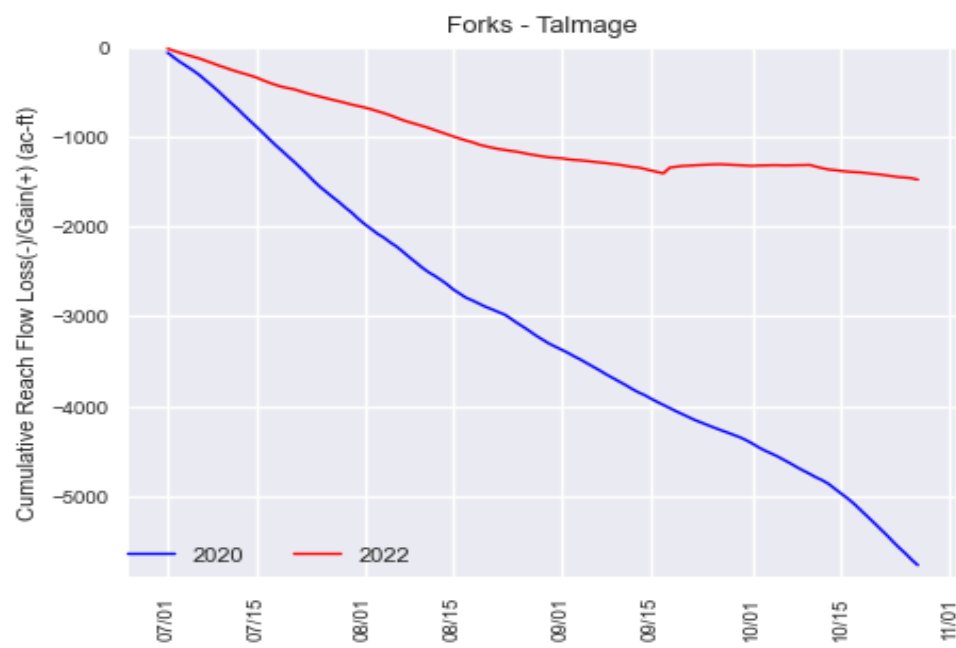


| Gage                        | 24-hr Average Flow (cfs) |              |              |              |              |              |              |
|-----------------------------|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                             | Oct 21, 2022             | Oct 22, 2022 | Oct 23, 2022 | Oct 24, 2022 | Oct 25, 2022 | Oct 26, 2022 | Oct 27, 2022 |
| The Forks*                  | 51                       | 51           | 51           | 51           | 50           | 51           | 51           |
| Talmage<br>USGS 11462080    | 48                       | 46           | 46           | 46           | 49           | 47           | 43           |
| Hopland<br>USGS 11462500    | 44                       | 43           | 45           | 43           | 44           | 43           | 42           |
| Cloverdale<br>USGS 11463000 | 40                       | 41           | 40           | 41           | 39           | 40           | 39           |
| Healdsburg<br>USGS 11464000 | 38                       | 38           | 37           | 37           | 37           | 37           | 36           |
| Hacienda<br>USGS 11467000   | 74                       | 73           | 68           | 70           | 71           | 70           | 66           |

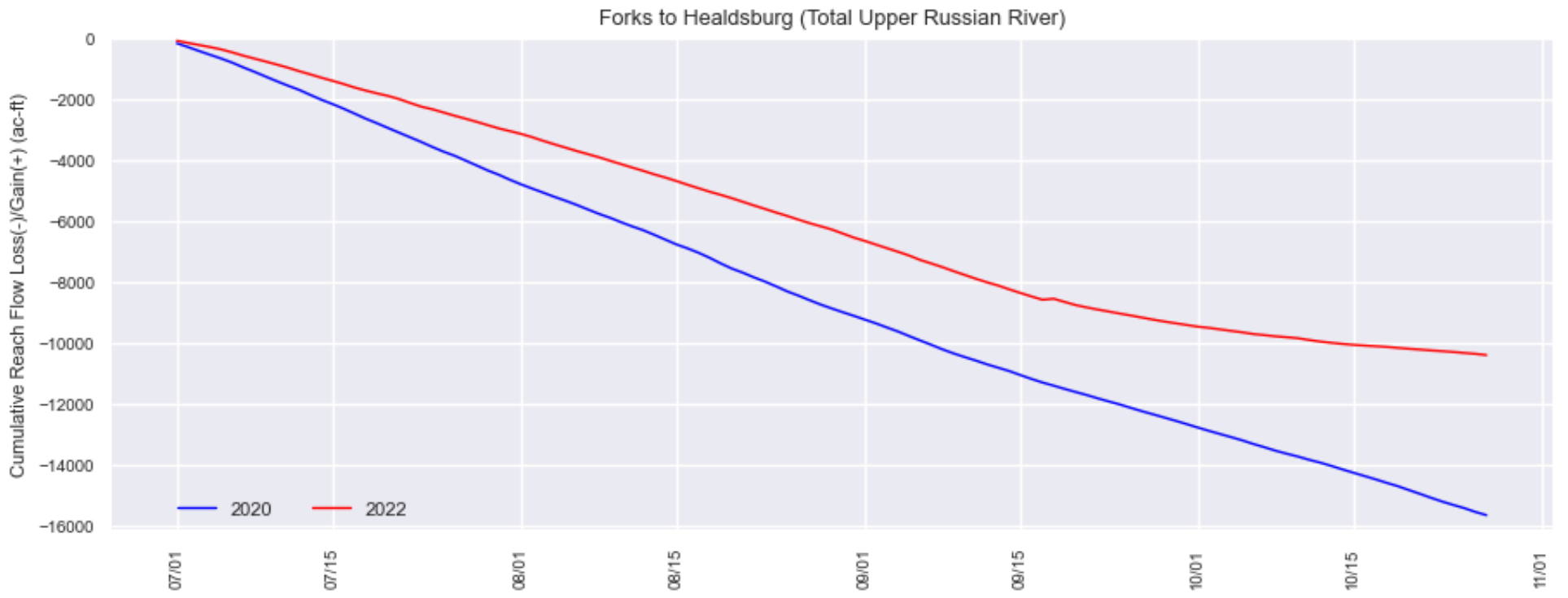
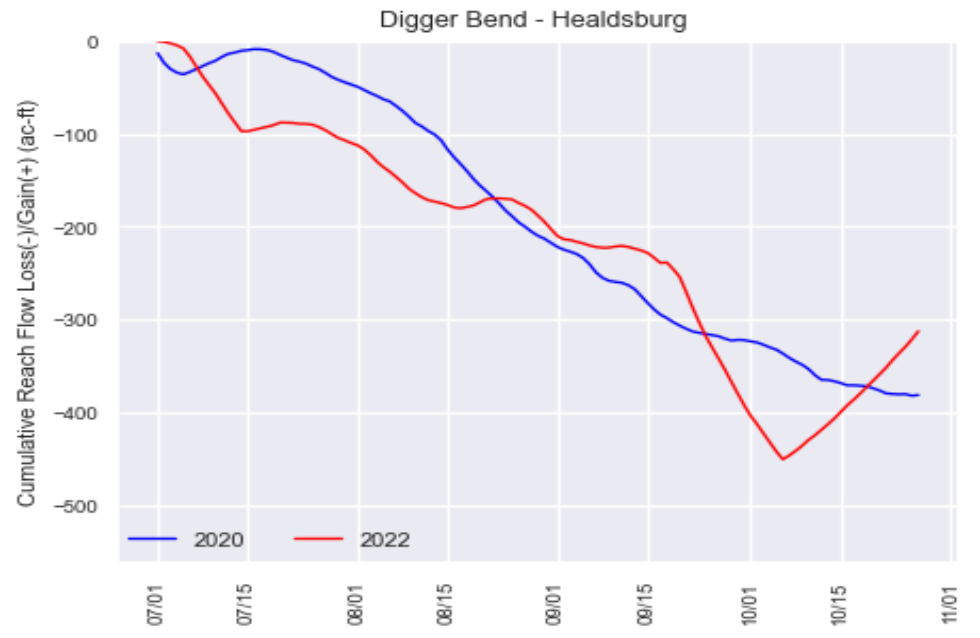
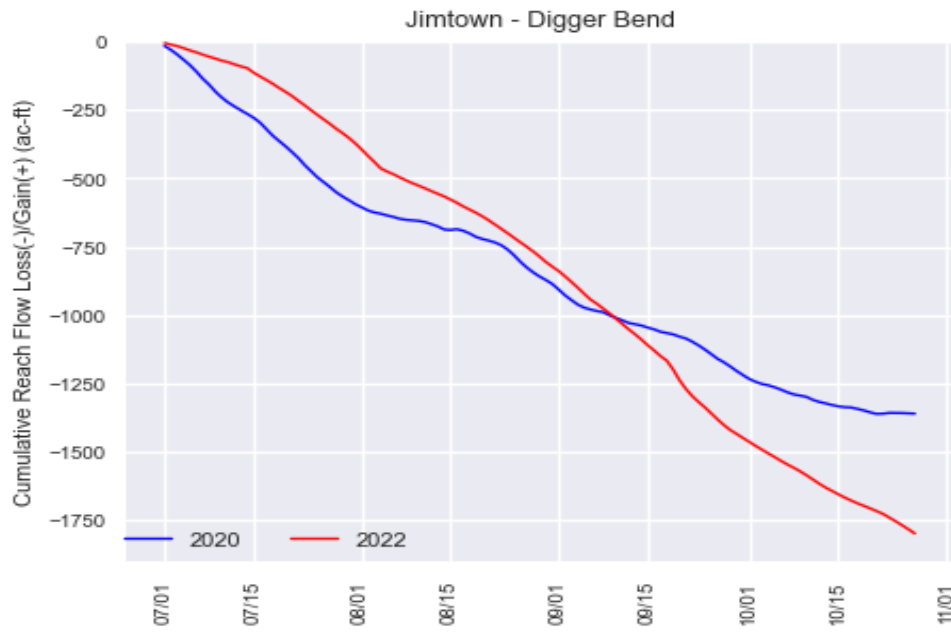
\*West Fork(USGS 11461000) + East Fork (Coyote Valley Dam Release)



### Upper Russian River Flow Gain/Loss (July 1, 2022 - October 27, 2022)

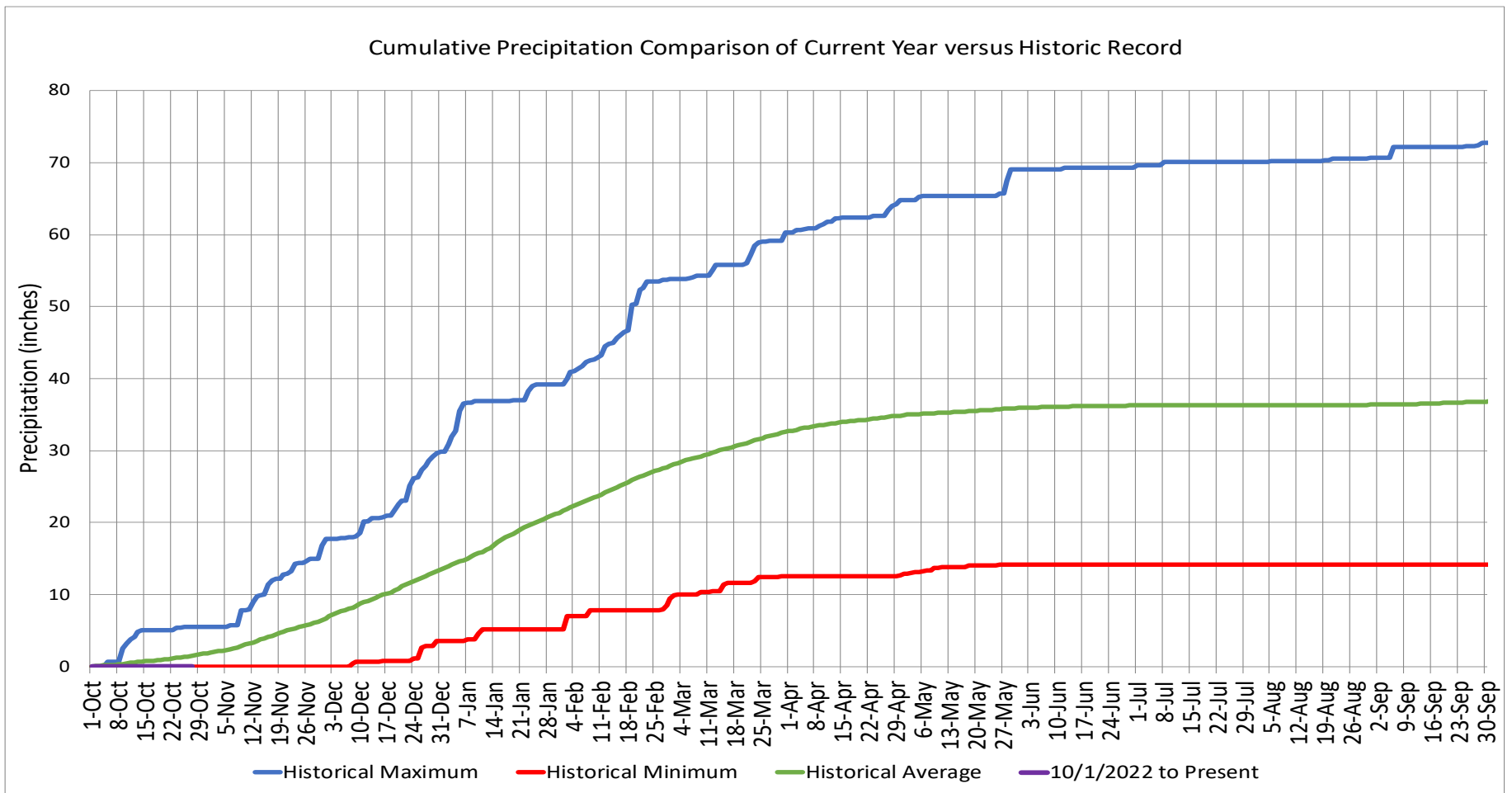


# Upper Russian River Flow Gain/Loss (July 1, 2022 - October 27, 2022)



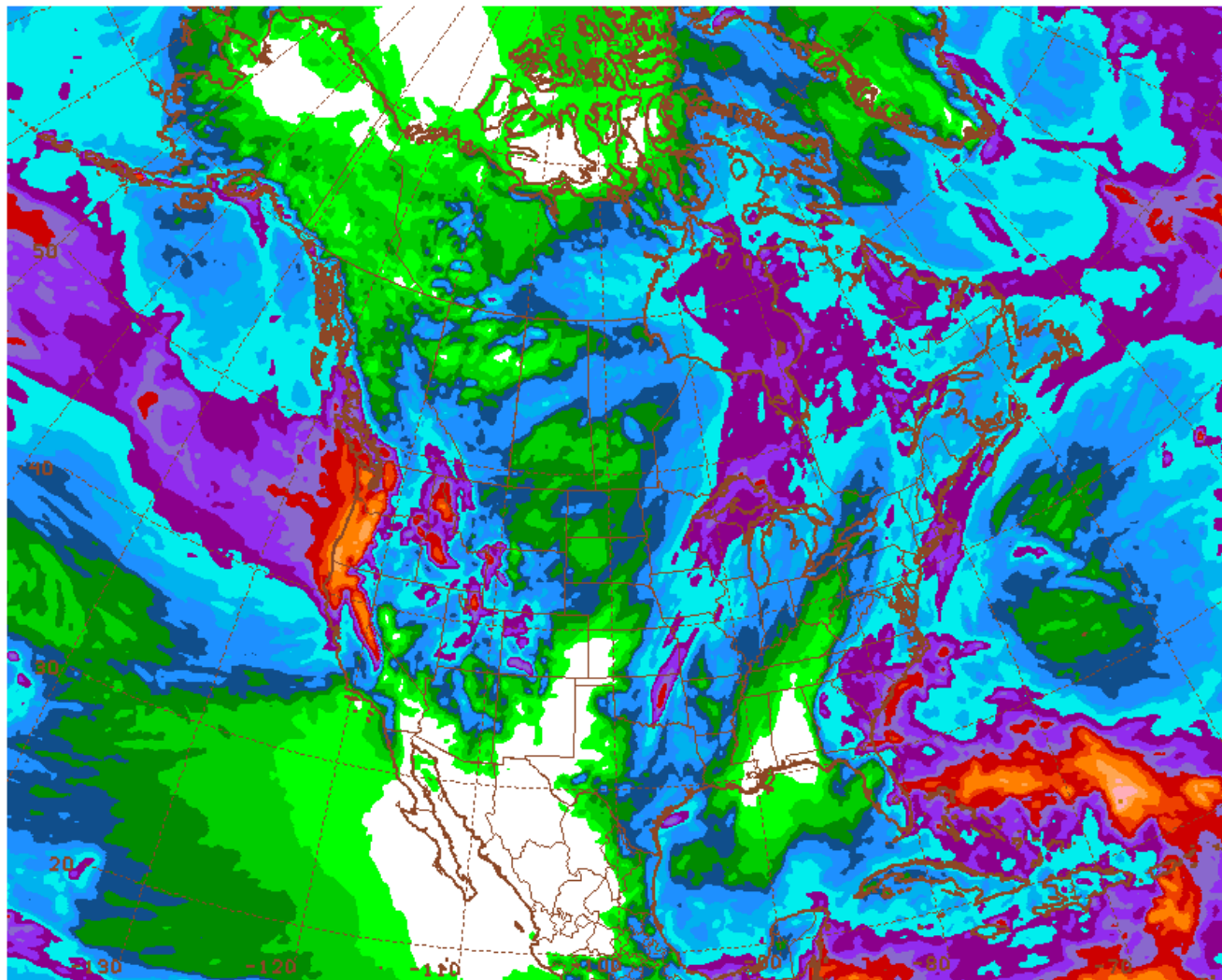
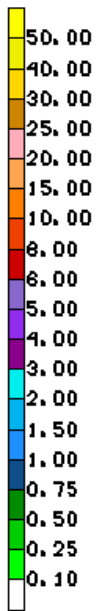
### Precipitation

|  |                     |
|--|---------------------|
| Ukiah Municipal Airport (WBAN: 72590523275 (KUKI)) |                     |
| Date Range   | Cumulative (inches) |
| Oct 1, 2022 - Oct 27, 2022                         | <b>0</b>            |
| Last 7 Days*                                       | <b>0.00</b>         |



### Global Forecast System Model 16-day Cumulative Precipitation Forecast

GFS 10/31/22 12UTC 384HR FCST VALID MED 11/16/22 12UTC NOAA/NWS/NCEP



GFS MED 221116/1200V384 384HR ACCUMULATED PRECIP (IN)

Date Range  
Oct 31 - Nov 16, 2022

Forecasted Cumulative (inches)  
**4.35**

## Russian River Fisheries Monitoring

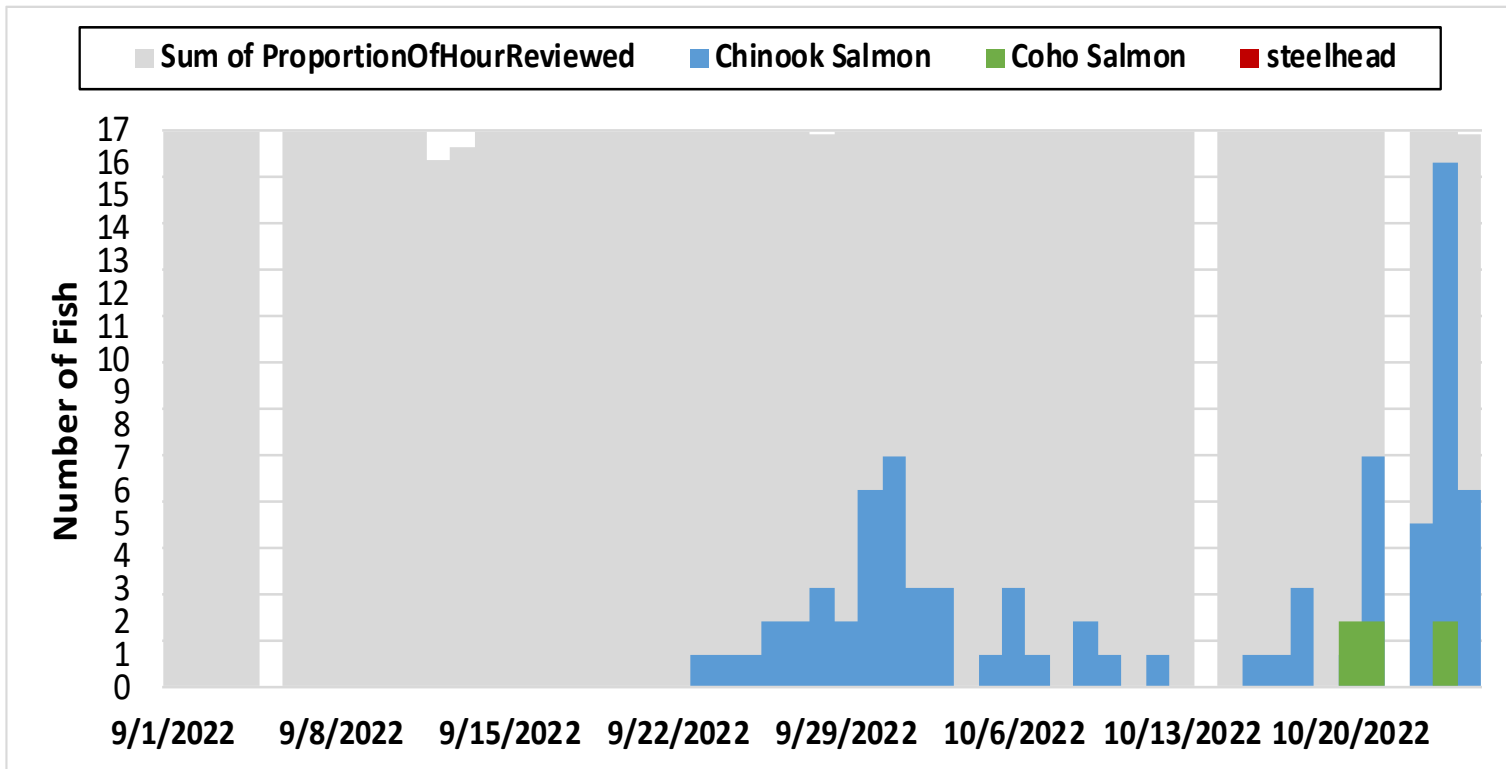


Figure 1. Number of adult salmonids and proportion of each day reviewed for video monitoring data collected at the Mirabel dam, 2022.

| Week  | Chinook Salmon |               | Coho Salmon |               | Steelhead |               |
|-------|----------------|---------------|-------------|---------------|-----------|---------------|
|       | 2022           | 2000-2019 Avg | 2022        | 2000-2019 Avg | 2022      | 2000-2019 Avg |
| 09/01 | 0              | 0.05%         | 0           | 0.00%         | 0         | 0.65%         |
| 09/08 | 0              | 0.14%         | 0           | 0.00%         | 0         | 0.65%         |
| 09/15 | 0              | 0.24%         | 0           | 0.10%         | 0         | 0.71%         |
| 09/22 | 10             | 0.59%         | 0           | 0.00%         | 0         | 0.93%         |
| 09/29 | 22             | 6.10%         | 0           | 0.30%         | 0         | 1.30%         |
| 10/06 | 8              | 3.57%         | 0           | 0.61%         | 0         | 1.30%         |
| 10/13 | 5              | 13.30%        | 0           | 1.73%         | 0         | 2.35%         |
| 10/20 | 39             | 13.66%        | 6           | 3.05%         | 0         | 1.42%         |
| 10/27 |                | 17.31%        |             | 1.12%         |           | 1.27%         |
| 11/03 |                | 20.08%        |             | 4.47%         |           | 2.16%         |
| 11/10 |                | 9.73%         |             | 8.12%         |           | 4.88%         |
| 11/17 |                | 7.69%         |             | 23.45%        |           | 8.90%         |
| 11/24 |                | 3.37%         |             | 24.77%        |           | 14.83%        |
| 12/01 |                | 2.69%         |             | 7.51%         |           | 15.17%        |
| 12/08 |                | 0.74%         |             | 9.44%         |           | 15.76%        |
| 12/15 |                | 0.42%         |             | 8.83%         |           | 15.01%        |
| 12/22 |                | 0.22%         |             | 3.45%         |           | 9.24%         |
| 12/29 |                | 0.09%         |             | 3.05%         |           | 3.49%         |

Table 1. Weekly totals of adult salmonids observed on the Mirabel dam video camera.