



**Sonoma Water**

**State Water Resources Control Board  
 Temporary Urgency Change Order (12/11/2021)  
 Russian River Hydrologic Report  
 February 11, 2022 - February 17, 2022**

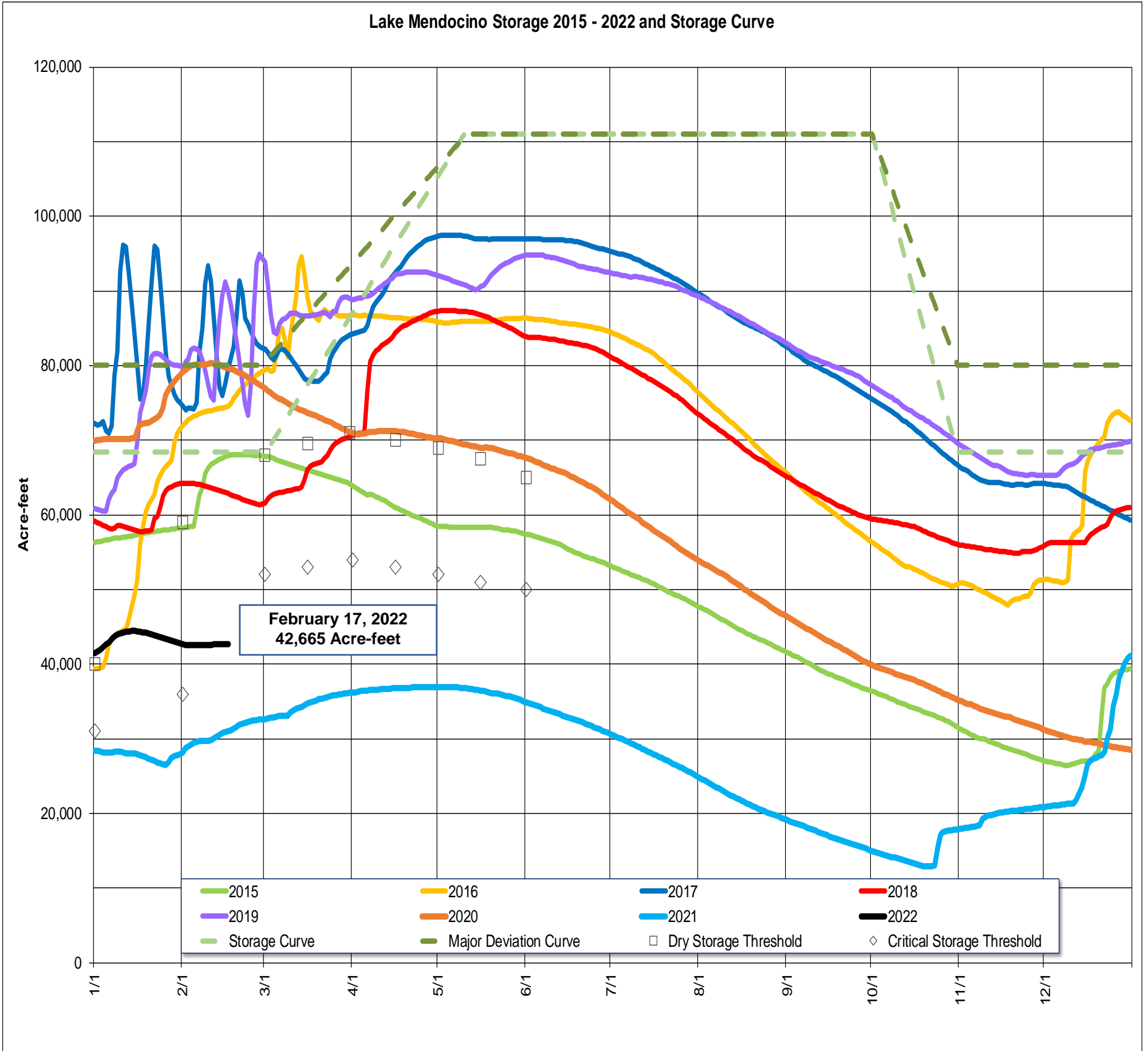
Prepared as a requirement of the Order approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A, 12949, 12950, and 16596 (Applications 12919A, 15736, 15737, and 19351).

**Instream Flow Requirements as of February 17, 2022**

Basis	Reach	Instantaneous (cfs)	5-day Average (cfs)
Modified Per Order: Dry Condition	Upper Russian River	<b>75</b>	-
Modified Per Order: Dry Condition	Dry Creek	<b>75</b>	-
Modified Per Order: Dry Condition	Lower Russian River	<b>85</b>	-

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

**Lake Mendocino**

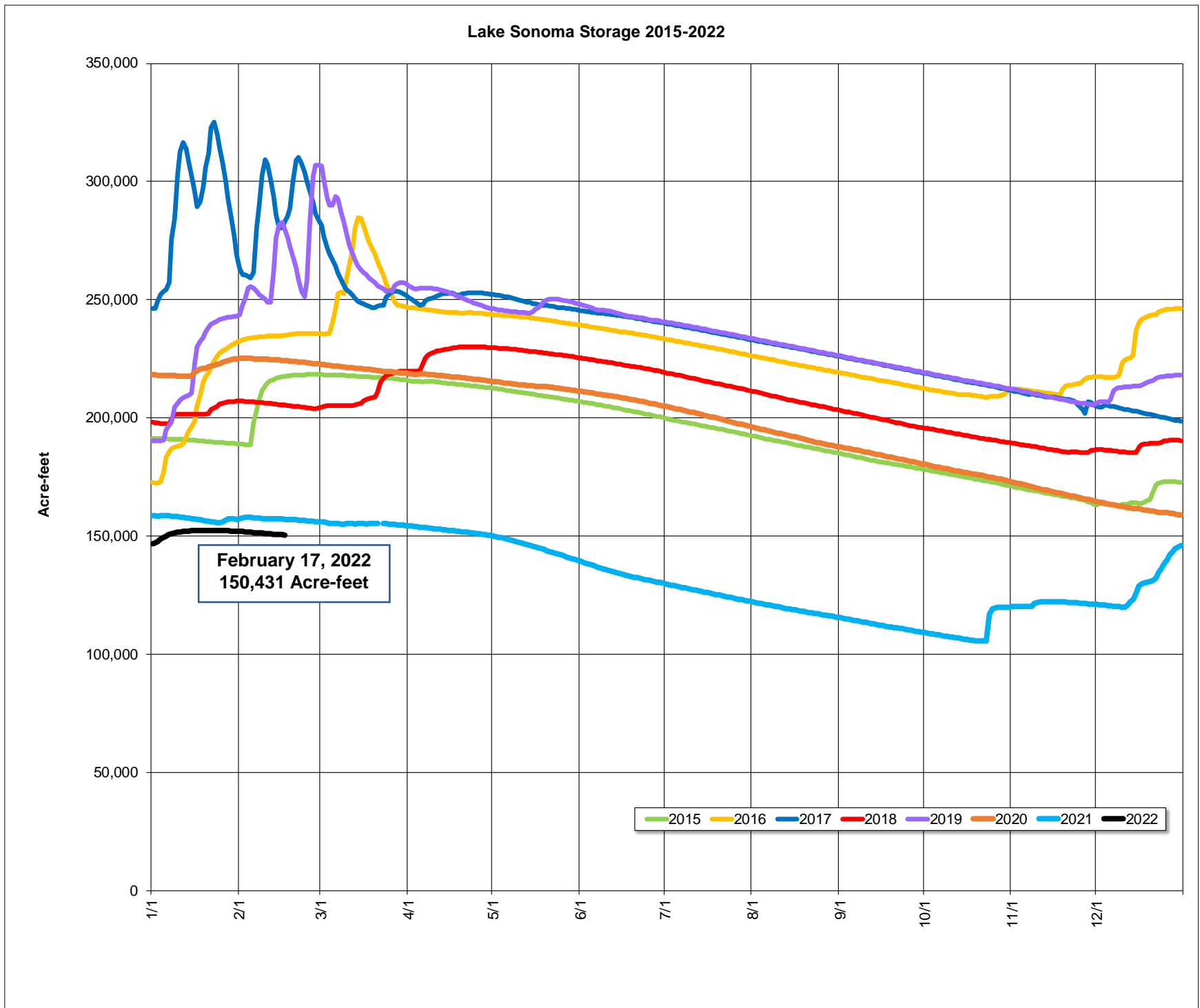


Storage (acre-feet)	February 17, 2022	<b>42,665</b>	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	<b>-1,624</b>	<b>-54</b>
	Last 7 days	<b>57</b>	<b>8</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>57</b>
		Max	<b>71</b>
		Mean	<b>64</b>
Release (cfs)	Last 7 days	Min	<b>52</b>
		Max	<b>59</b>
		Mean	<b>56</b>

# Lake Sonoma



Nathan Baskett, March 3, 2011



Storage (acre-feet)	February 17, 2022	<b>150,431</b>	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	<b>-2,004</b>	<b>-67</b>
	Last 7 days	<b>-647</b>	<b>-92</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>13</b>
		Max	<b>41</b>
		Mean	<b>26</b>
Release (cfs)	Last 7 days	Min	<b>75</b>
		Max	<b>79</b>
		Mean	<b>77</b>

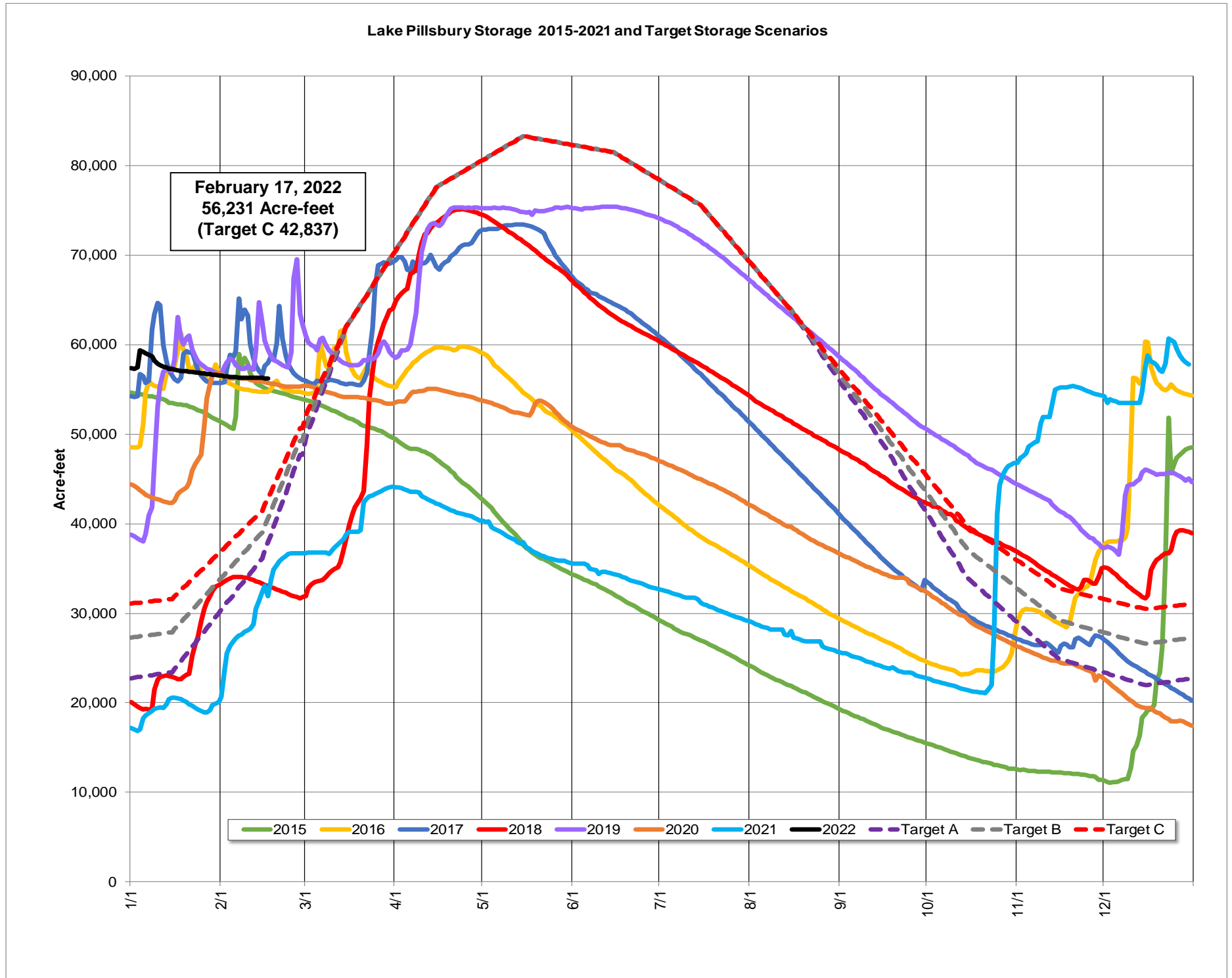
### Potter Valley Project

PVP Diversion (cfs)	February 17, 2022	46
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### Lake Pillsbury

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2021 - February 17, 2022	178,956	1287
	Last 7 days	2,635	376

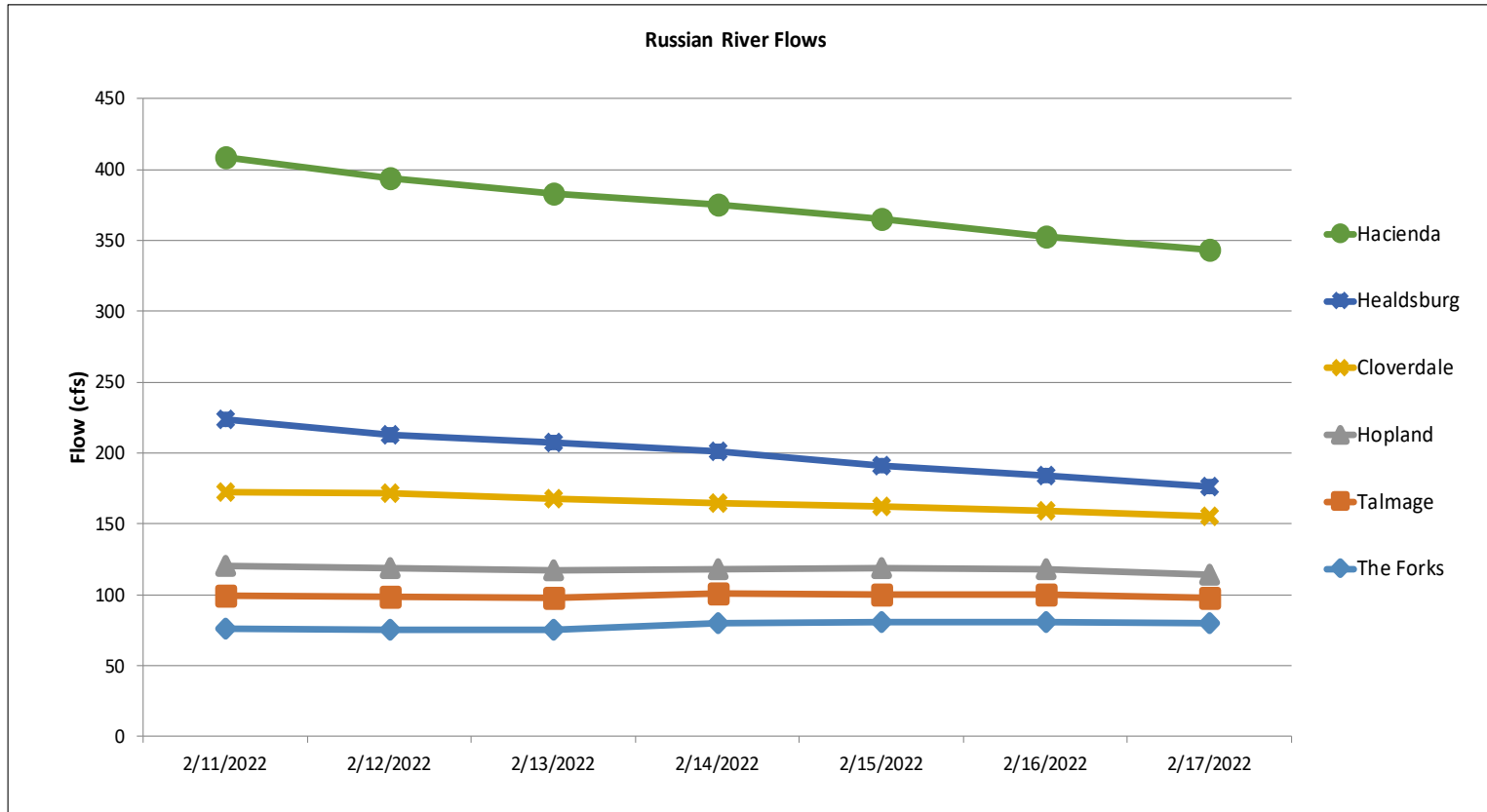
\*Inflow calculation based on criteria established in D1610



**Russian River Flows (February 11, 2022 - February 17, 2022)**

Gage	24-hr Average Flow (cfs)						
	Feb 11, 2022	Feb 12, 2022	Feb 13, 2022	Feb 14, 2022	Feb 15, 2022	Feb 16, 2022	Feb 17, 2022
The Forks*	76	76	75	80	81	81	80
Talmage USGS 11462080	99	99	98	101	100	100	98
Hopland USGS 11462500	120	119	117	118	119	118	114
Cloverdale USGS 11463000	173	172	168	164	162	159	155
Healdsburg USGS 11464000	224	213	207	201	191	184	176
Hacienda USGS 11467000	409	394	383	375	365	353	343

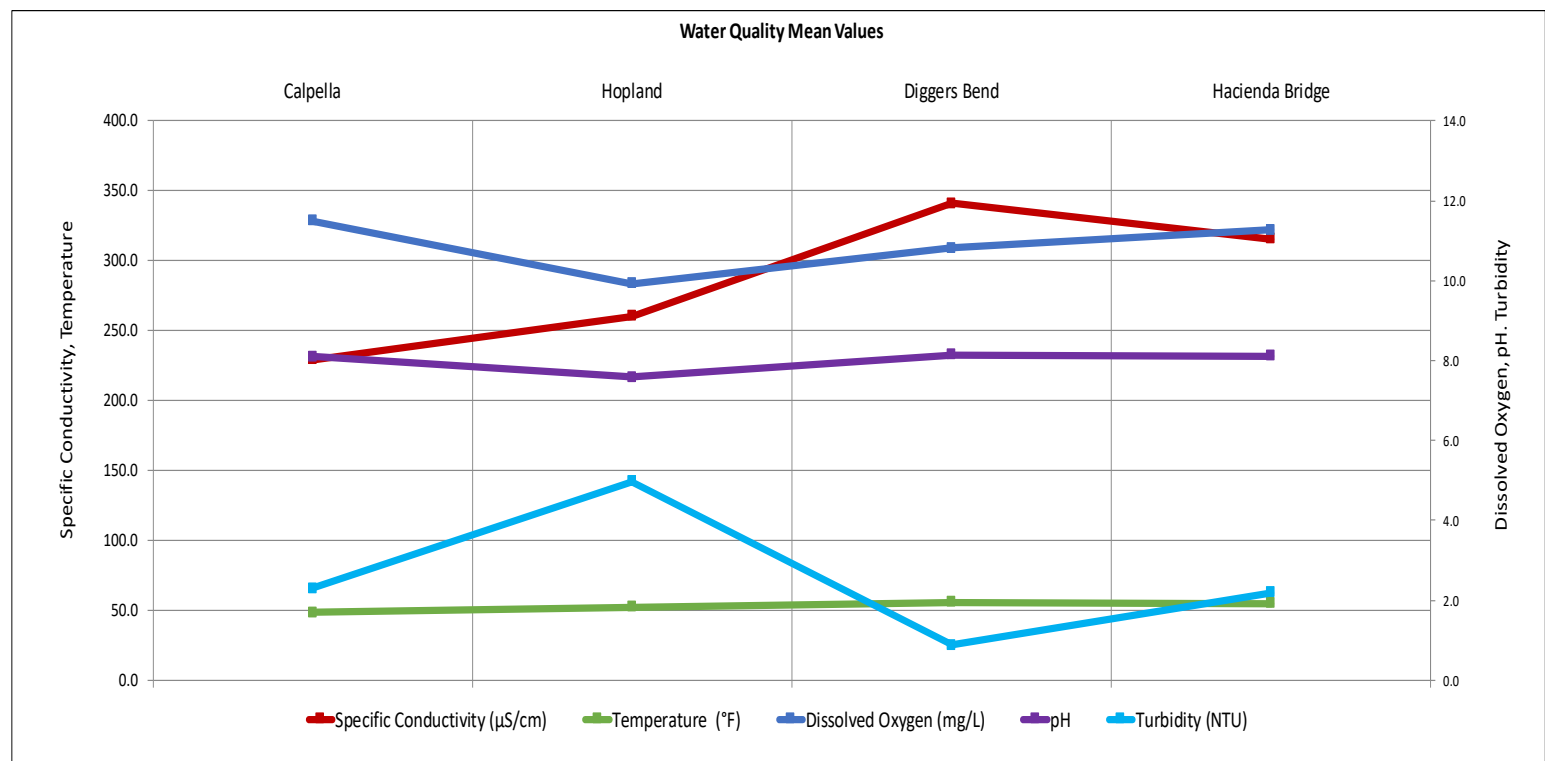
\*West Fork (USGS 11461000) + East Fork (Coyote Valley Dam Release)



**Russian River Water Quality (February 11, 2022 - February 17, 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	45.5	49.1			52.7		52.2	
	Max	51.1	54.9			58.5		57.0	
	Mean	48.3	52.1			55.7		55.0	
Specific Conductivity (µS/cm)	Min	223.0	243.0			335.0		308.0	
	Max	234.0	265.0			344.0		320.0	
	Mean	229.3	260.2			341.2		315.5	
Dissolved Oxygen (mg/L)	Min	10.9	9.5			9.0		9.5	
	Max	12.4	10.7			13.9		13.2	
	Mean	11.5	9.9			10.8		11.3	
Dissolved Oxygen (% Saturation)	Min	95.0	85.0			85.6		88.7	
	Max	110.6	98.6			136.0		126.6	
	Mean	99.6	90.4			103.2		106.6	
pH	Min	8.0	7.4			7.9		7.8	
	Max	8.4	7.7			8.6		8.4	
	Mean	8.1	7.6			8.1		8.1	
Turbidity (NTU)	Min	1.8	3.6			0.5		1.8	
	Max	2.8	6.7			1.8		3.0	
	Mean	2.3	5.0			0.9		2.2	

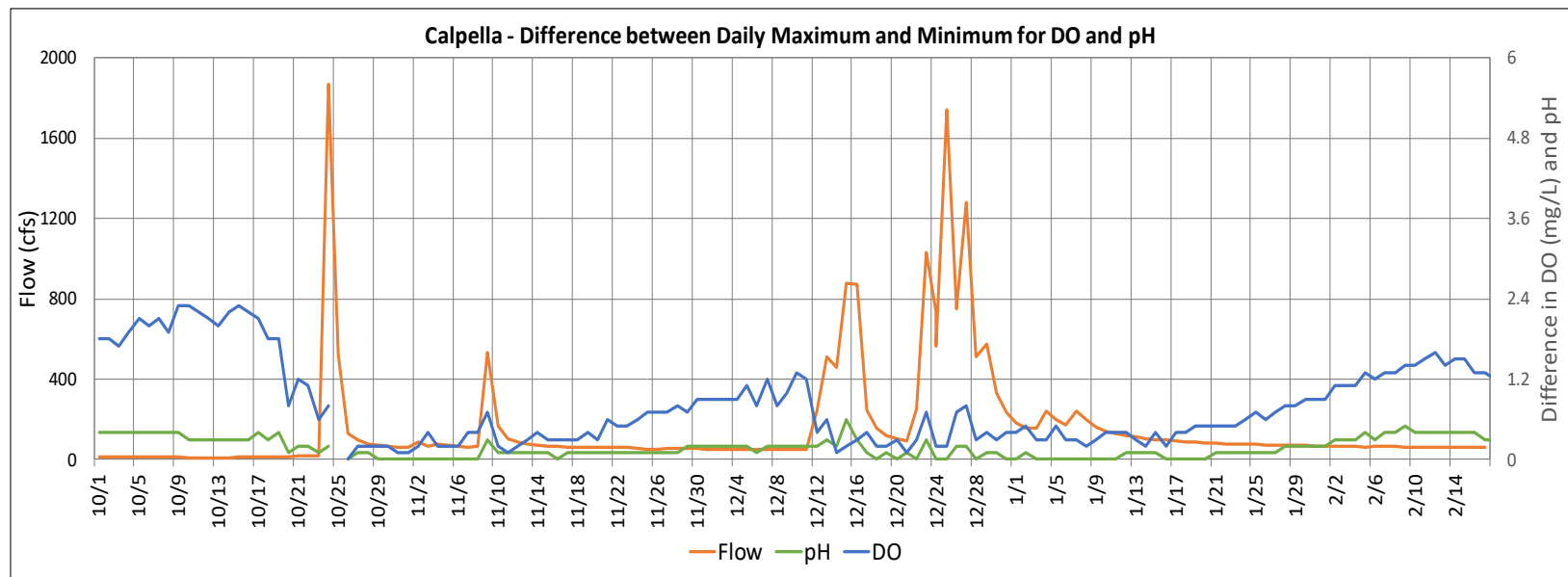
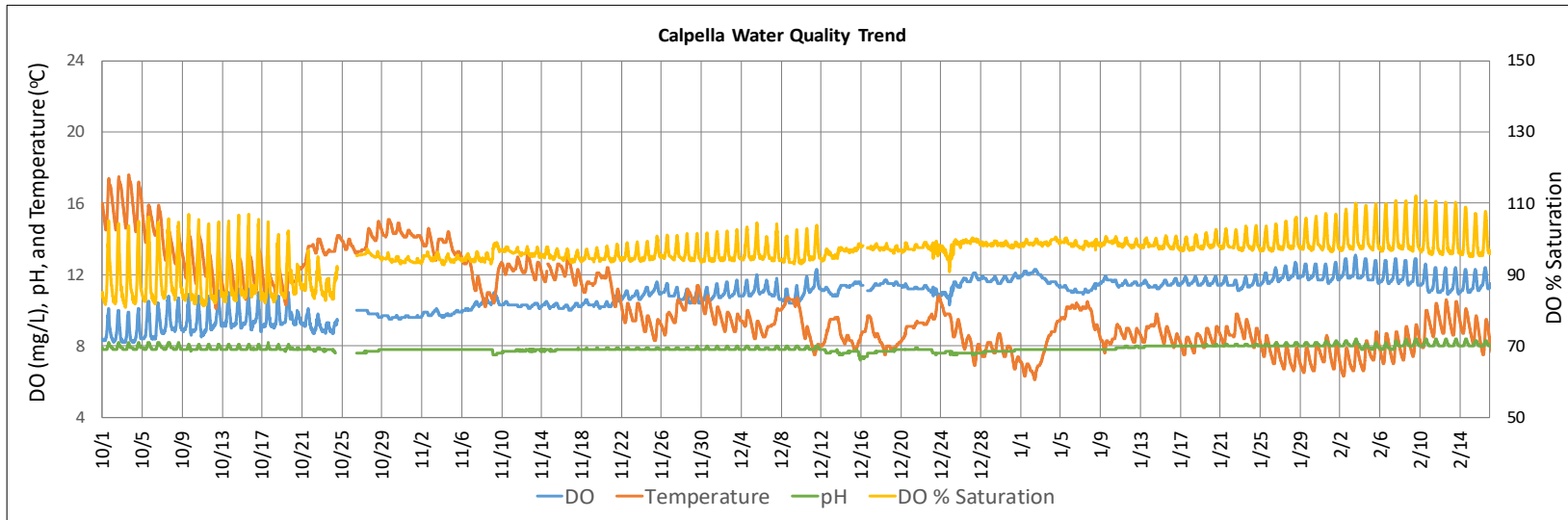
\*Station operated seasonally





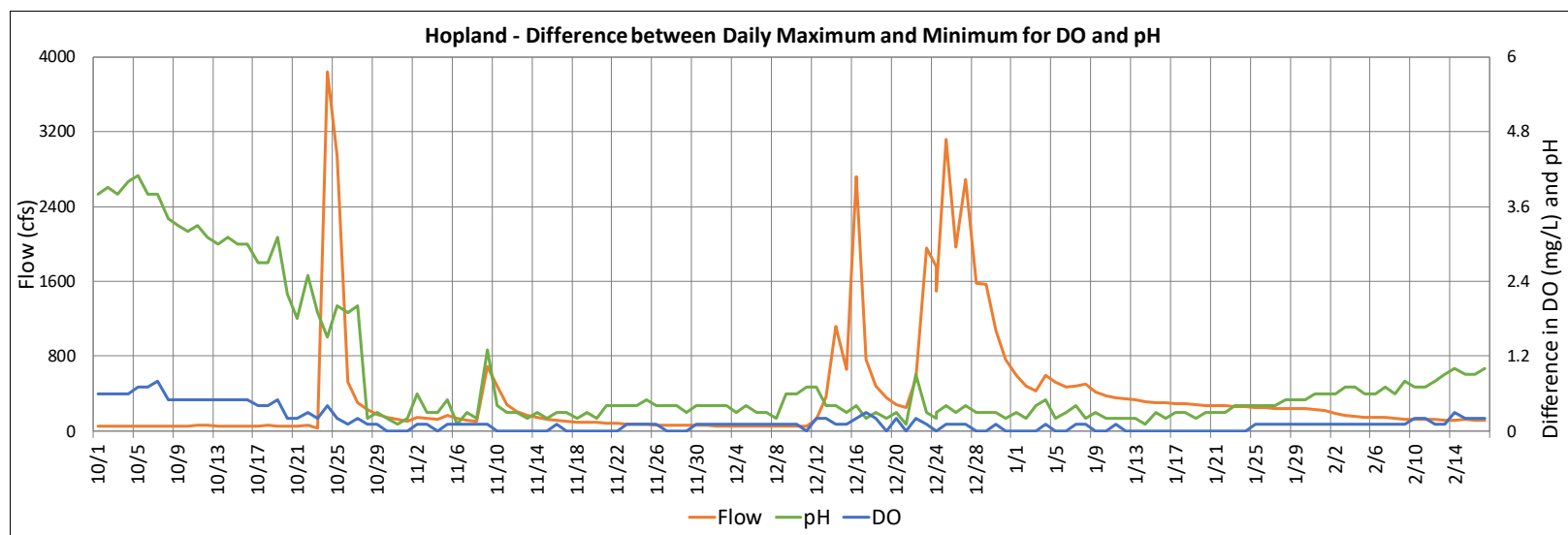
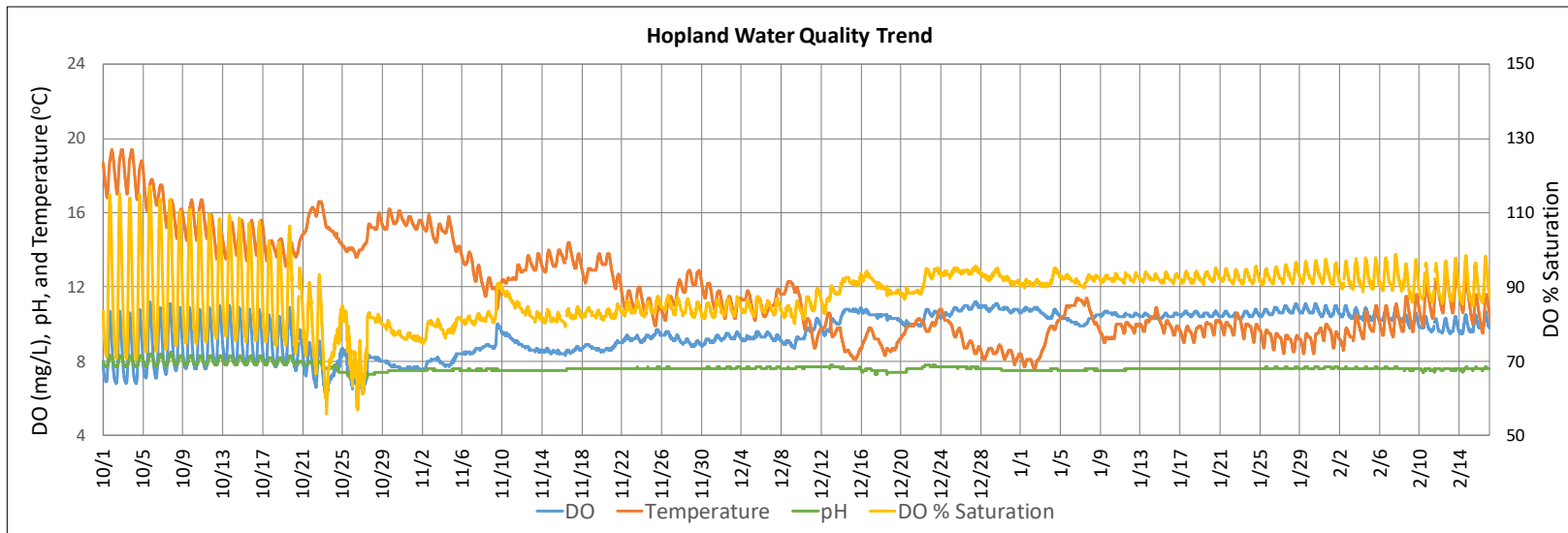
Russian River Water Quality (October 1, 2021 - February 17, 2022)

Calpella (East Fork Russian River)



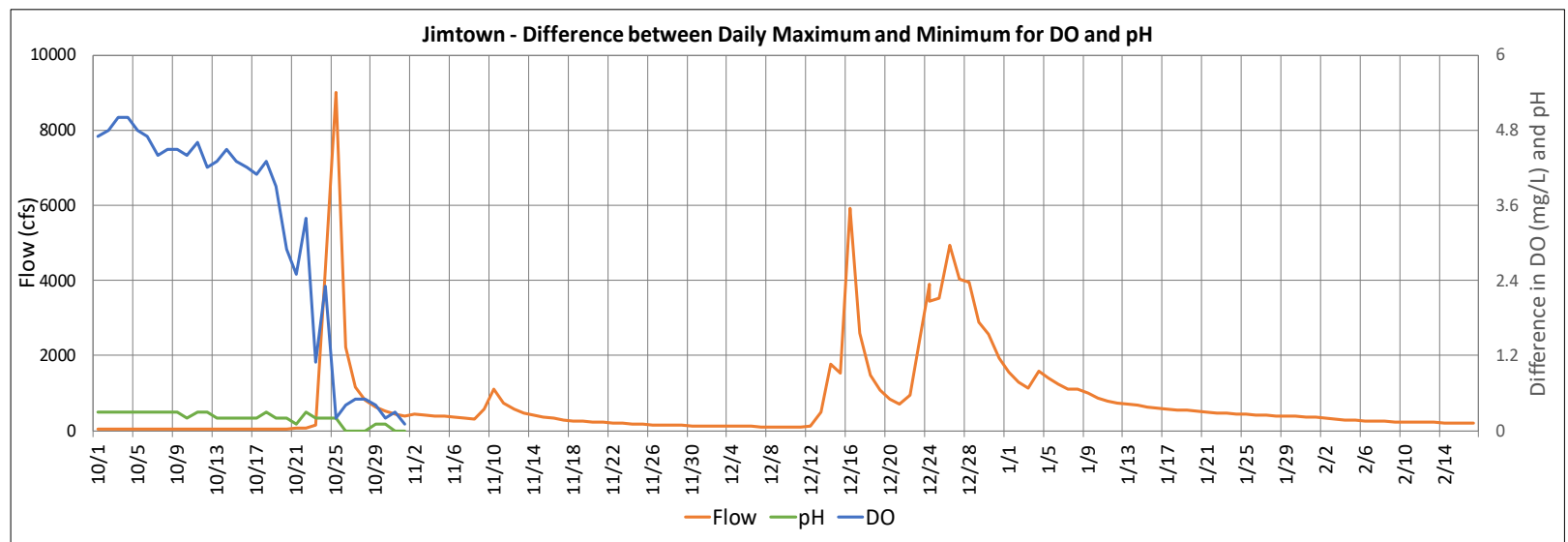
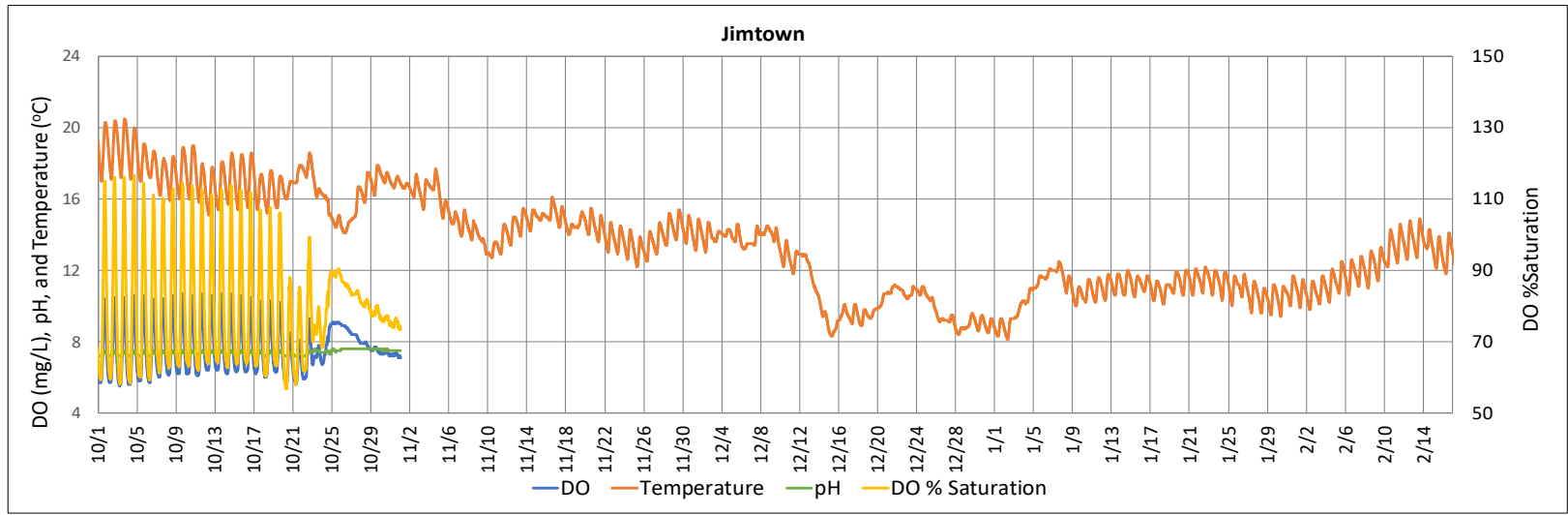
Russian River Water Quality (October 1, 2021 - February 17, 2022)

Hopland



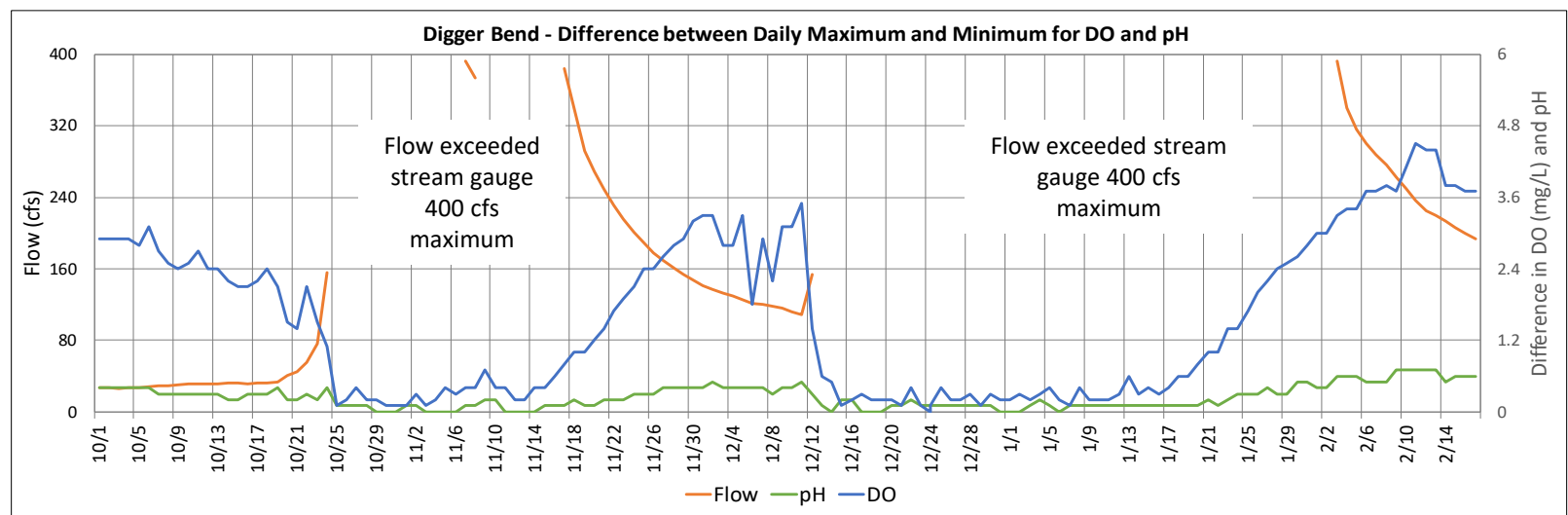
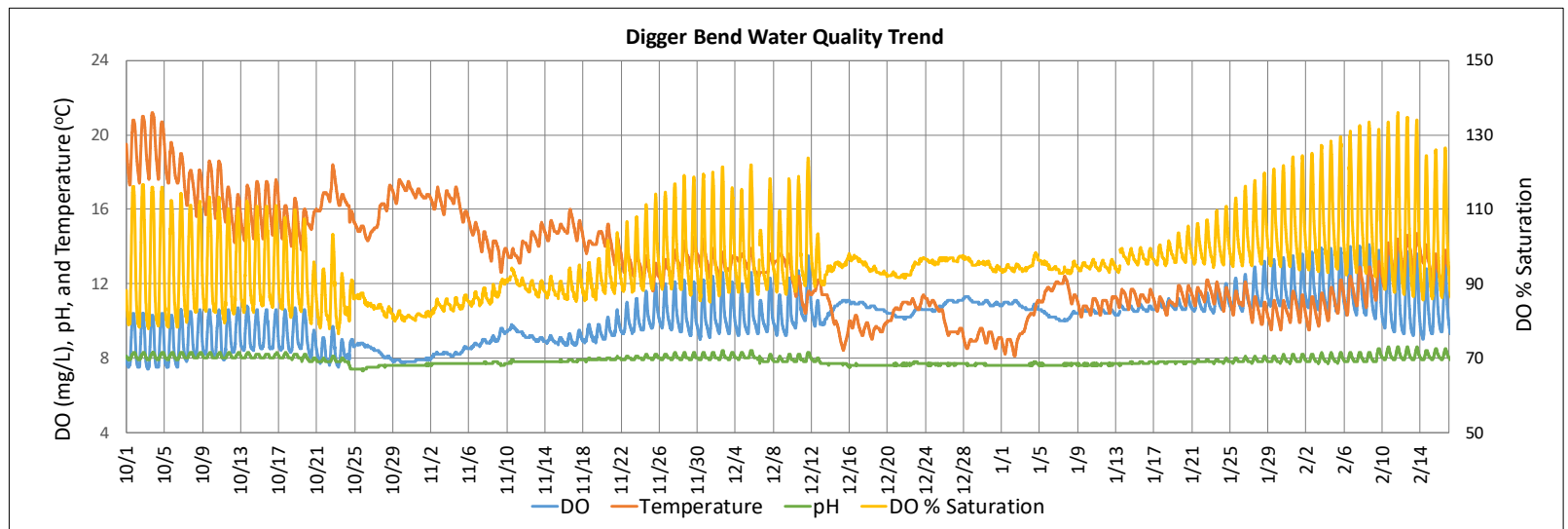
Russian River Water Quality (October 1, 2021 - February 17, 2022)

Jimtown



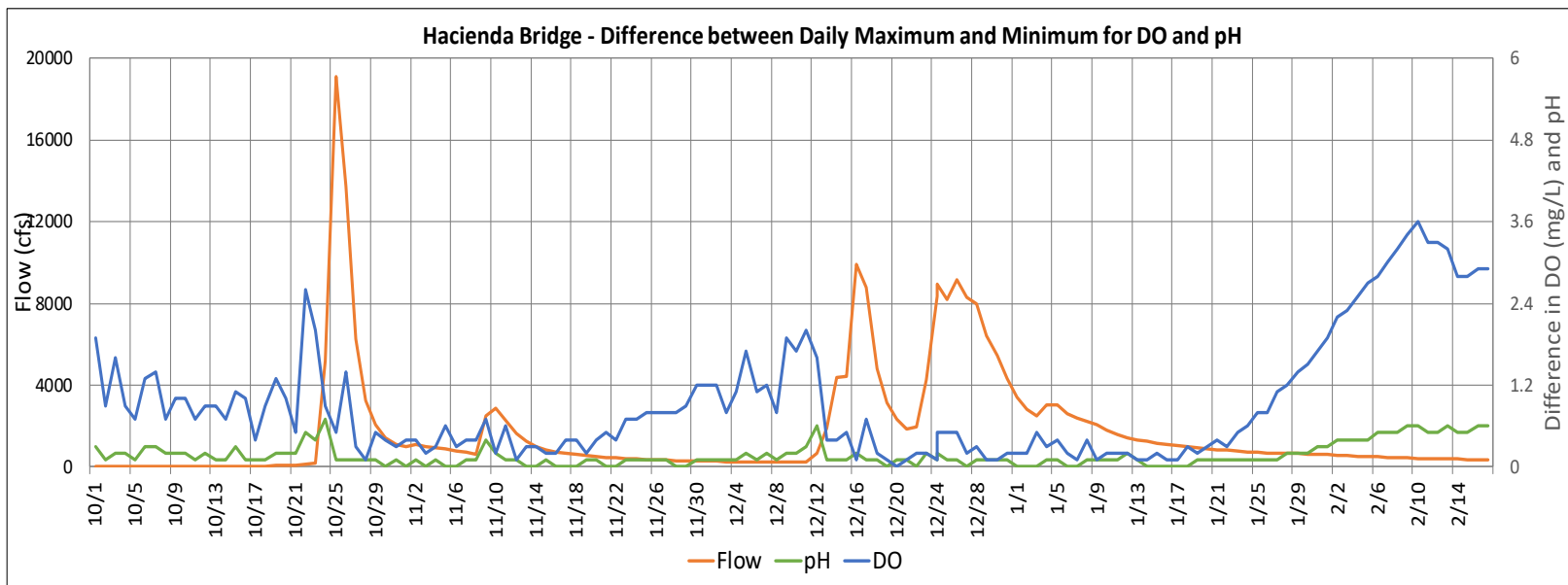
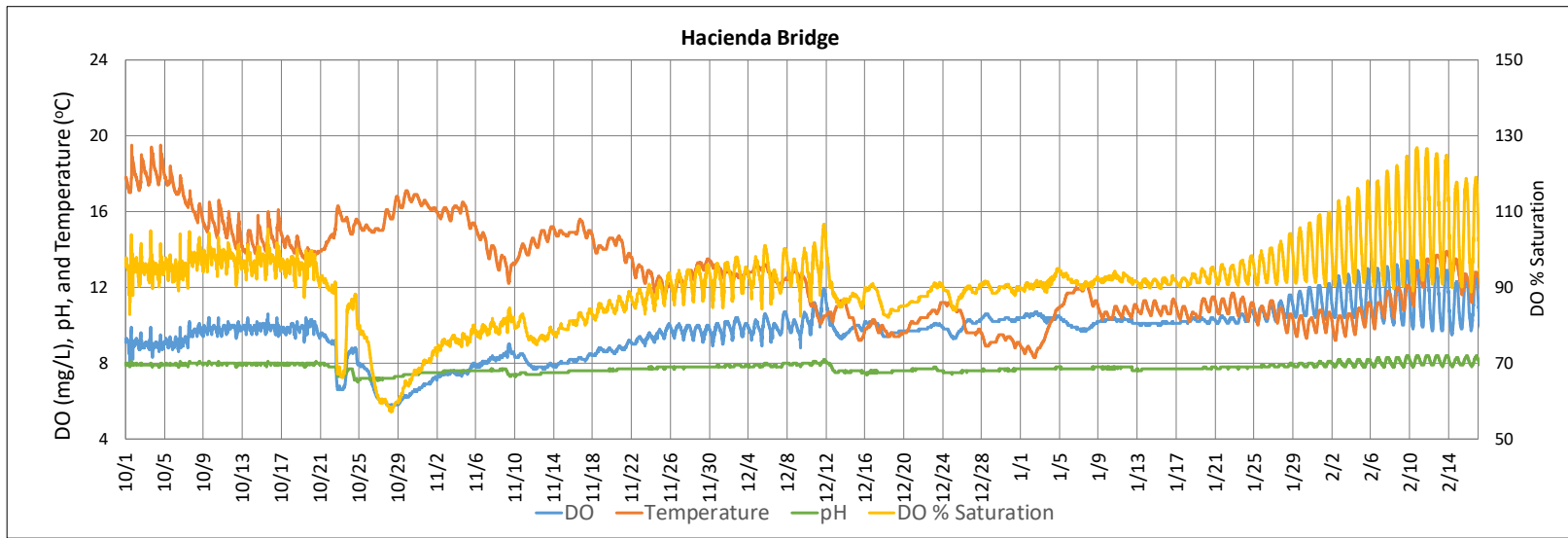
Russian River Water Quality (October 1, 2021 - February 17, 2022)

Digger Bend



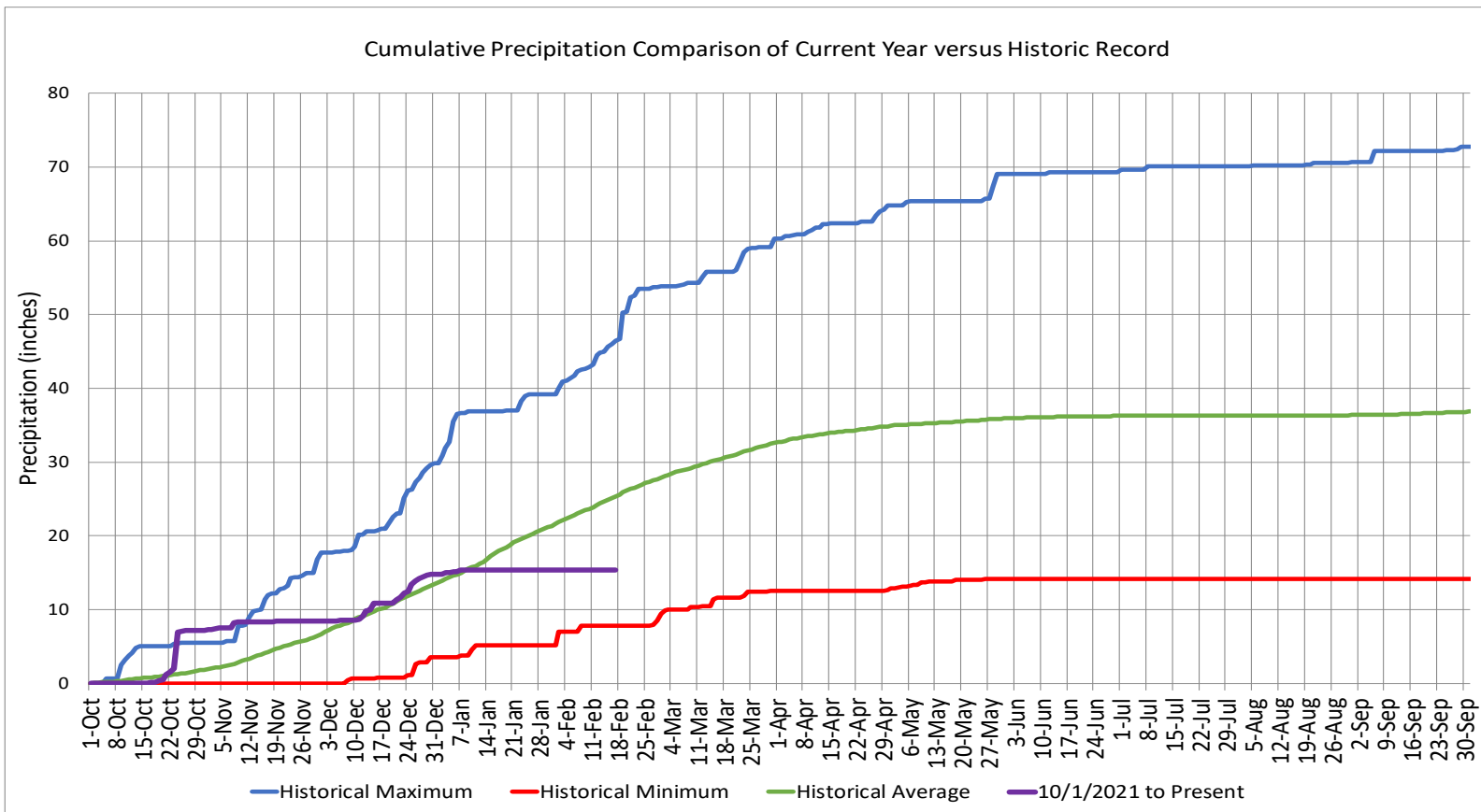
Russian River Water Quality (October 1, 2021 - February 17, 2022)

Hacienda Bridge



### Precipitation

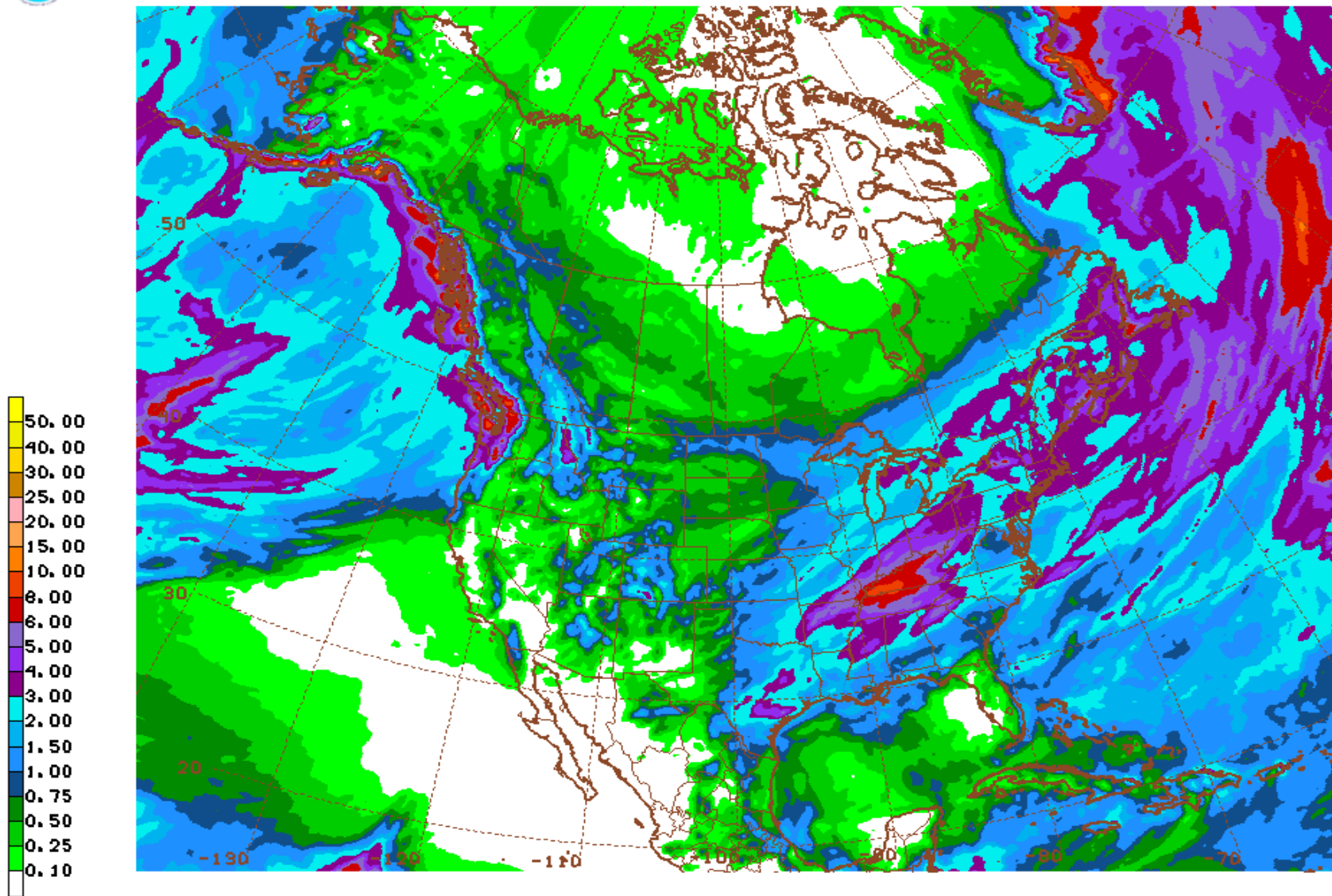
Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2021 - Feb 17, 2022	<b>15.37</b>
Last 7 Days*	<b>0.00</b>



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



GFS 02/22/22 12UTC 384HR FCST VALID THU 03/10/22 12UTC NOAA/NWS/NCEP



GFS THU 220310/1200V384 384HR ACCUMULATED PRECIP (IN)

Date Range  
Feb 22 - Mar 10, 2022

Forecasted Cumulative (inches)  
**0.1**