



**Sonoma Water**

**State Water Resources Control Board  
 Temporary Urgency Change Order (12/11/2021)  
 Russian River Hydrologic Report  
 February 18, 2022 - February 24, 2022**

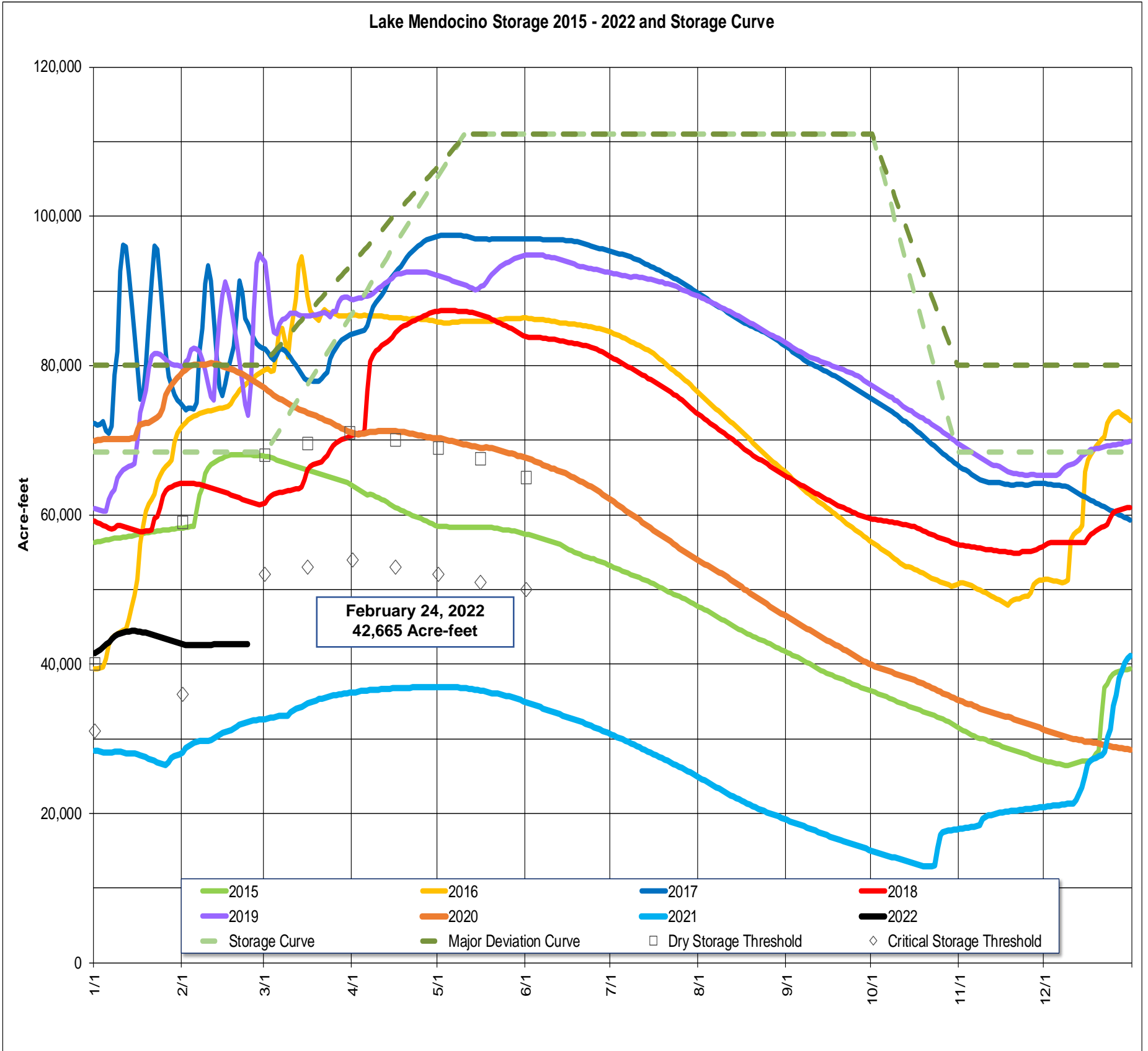
Prepared as a requirement of the Order approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A, 12949, 12950, and 16596 (Applications 12919A, 15736, 15737, and 19351).

**Instream Flow Requirements as of February 24, 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**

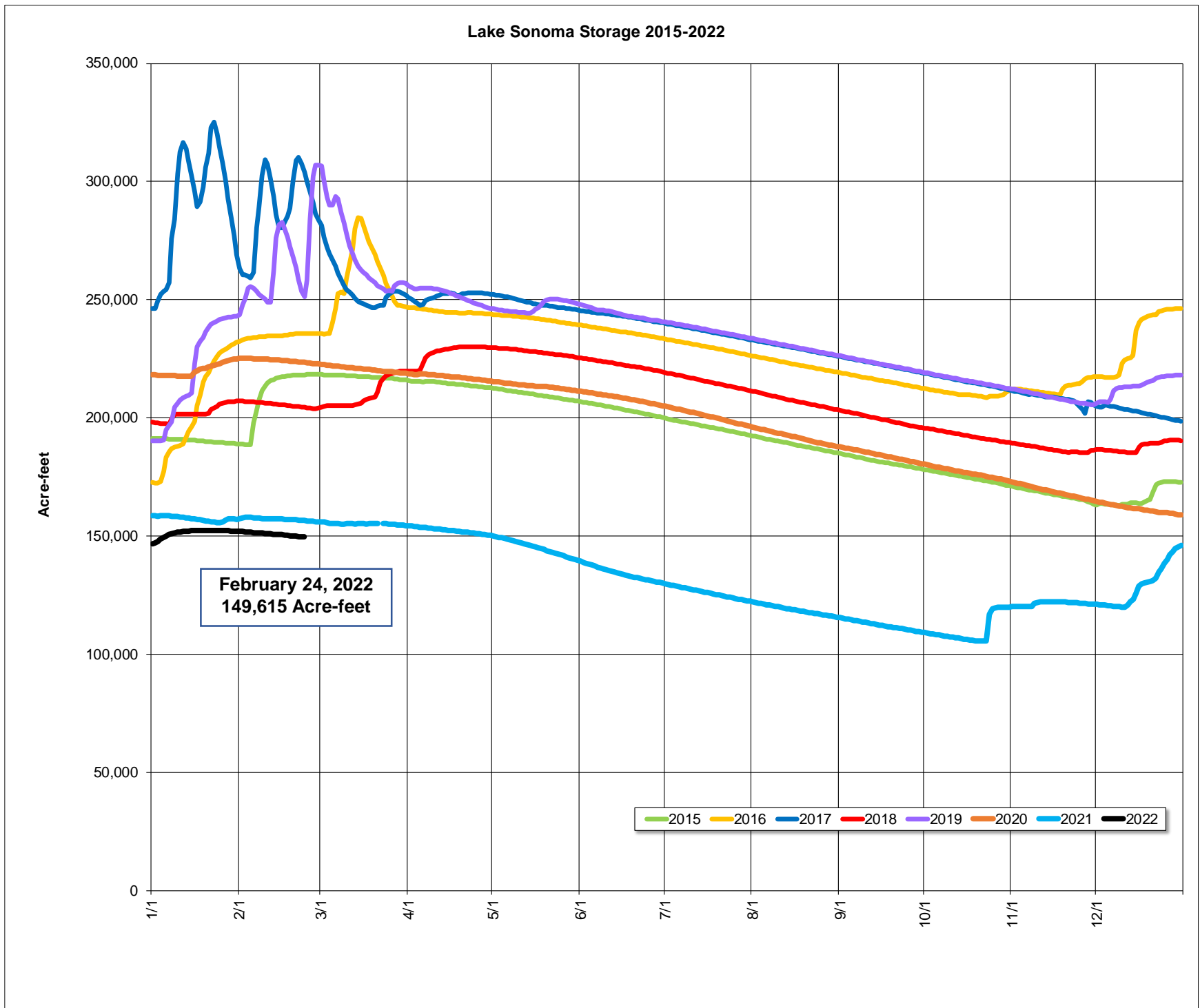


Storage (acre-feet)	February 24, 2022	<b>42,665</b>	
Change in Storage (acre-feet)	Last 30 days	Total	<b>-894</b>
		Average Daily Rate	<b>-30</b>
	Last 7 days	<b>0</b>	<b>0</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>62</b>
		Max	<b>64</b>
		Mean	<b>63</b>
Release (cfs)	Last 7 days	Min	<b>58</b>
		Max	<b>59</b>
		Mean	<b>59</b>

# Lake Sonoma



Nathan Baskett, March 3, 2011



Storage (acre-feet)	February 24, 2022	<b>149,615</b>	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	<b>-2,782</b>	<b>-93</b>
	Last 7 days	<b>-702</b>	<b>-100</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>0</b>
		Max	<b>41</b>
		Mean	<b>20</b>
Release (cfs)	Last 7 days	Min	<b>70</b>
		Max	<b>77</b>
		Mean	<b>75</b>

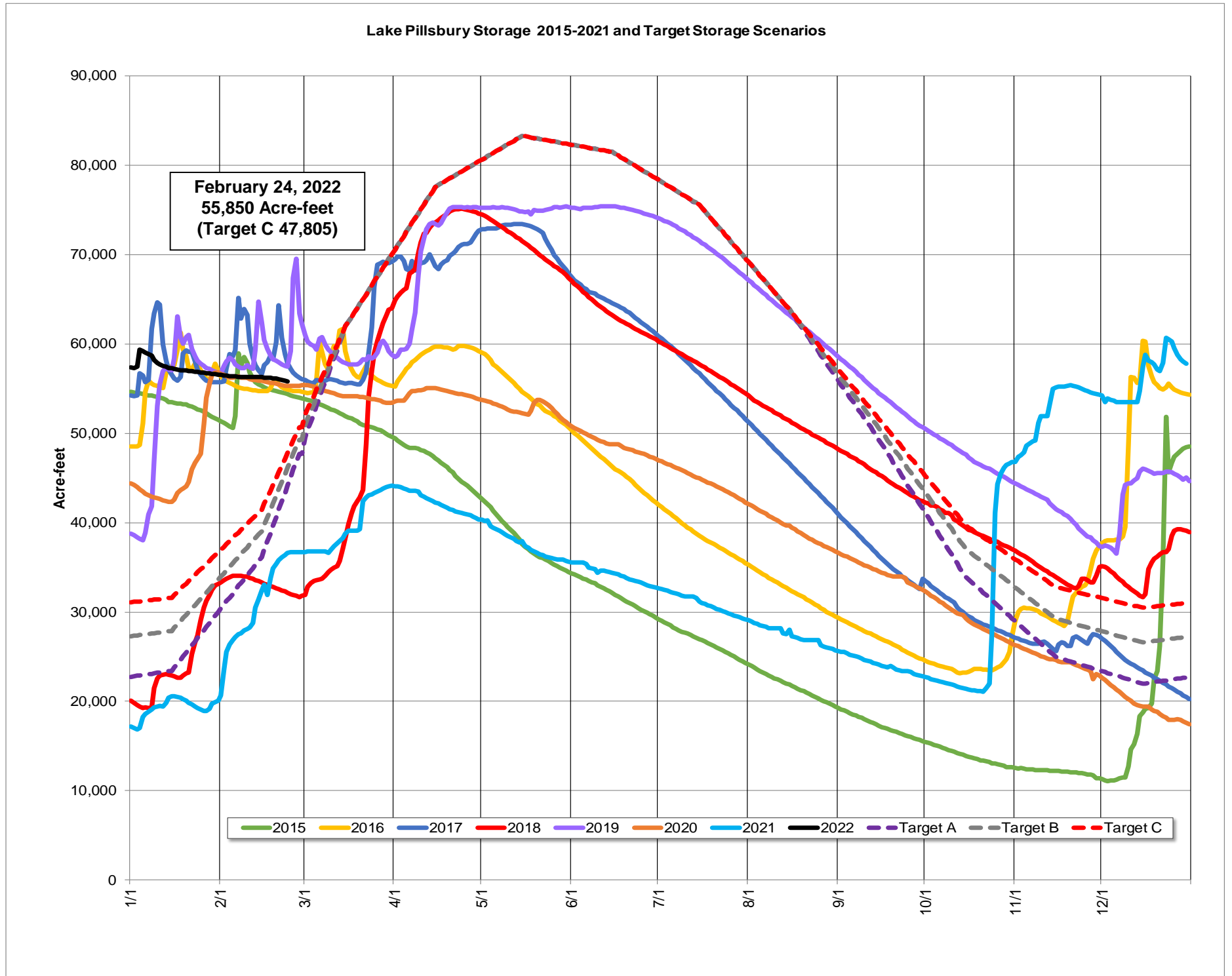
## Potter Valley Project

PVP Diversion (cfs)	February 24, 2022	<b>46</b>
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### Lake Pillsbury

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2021 - February 24, 2022	<b>181,544</b>	<b>1243</b>
	Last 7 days	<b>2,193</b>	<b>313</b>

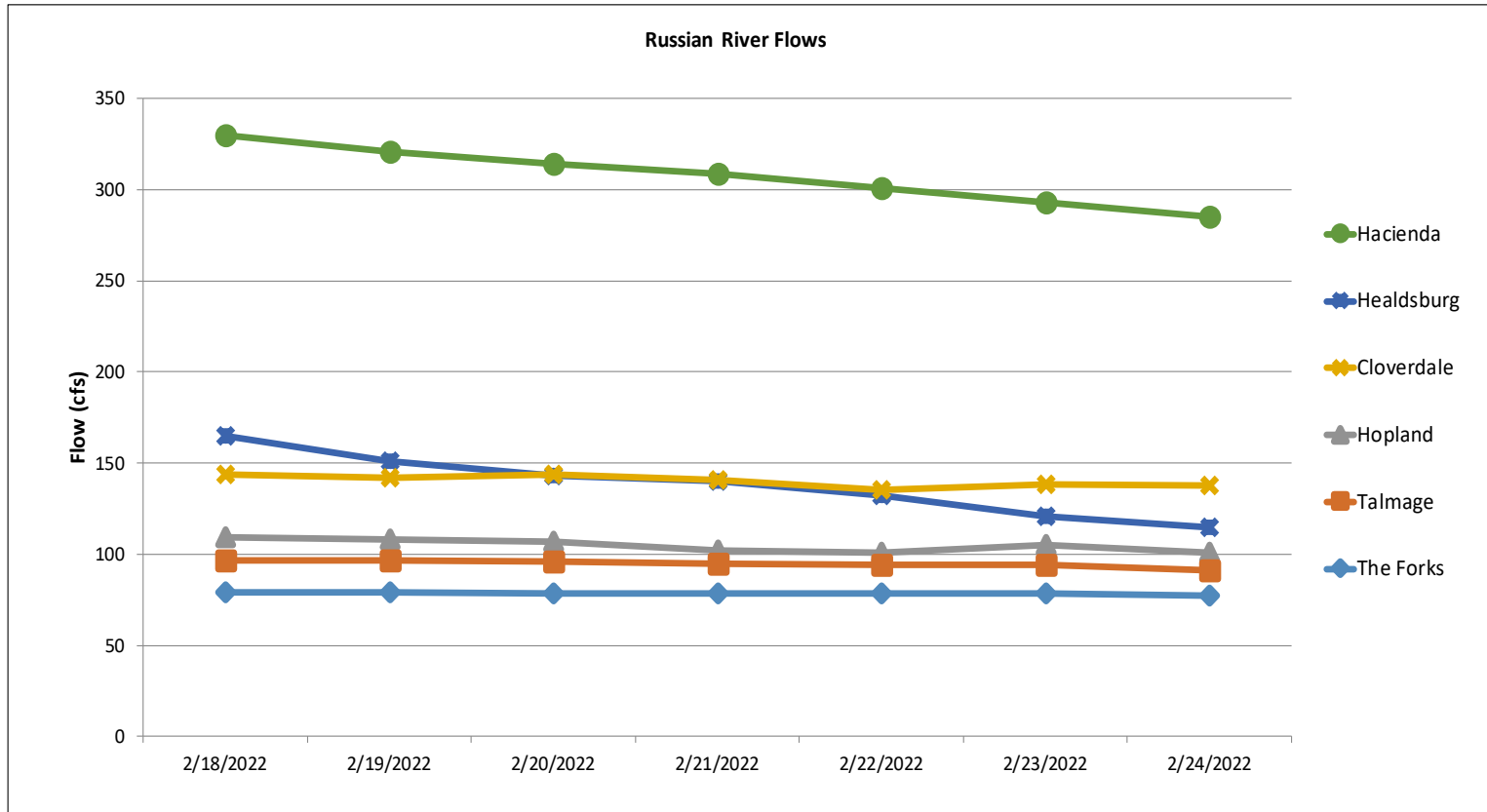
\*Inflow calculation based on criteria established in D1610



**Russian River Flows (February 18, 2022 - February 24, 2022)**

Gage	24-hr Average Flow (cfs)						
	Feb 18, 2022	Feb 19, 2022	Feb 20, 2022	Feb 21, 2022	Feb 22, 2022	Feb 23, 2022	Feb 24, 2022
The Forks*	79	79	79	78	78	78	77
Talmage USGS 11462080	97	96	96	95	94	94	91
Hopland USGS 11462500	109	108	107	102	101	105	101
Cloverdale USGS 11463000	144	142	144	141	135	138	138
Healdsburg USGS 11464000	165	151	143	140	132	121	115
Hacienda USGS 11467000	330	321	314	309	301	293	285

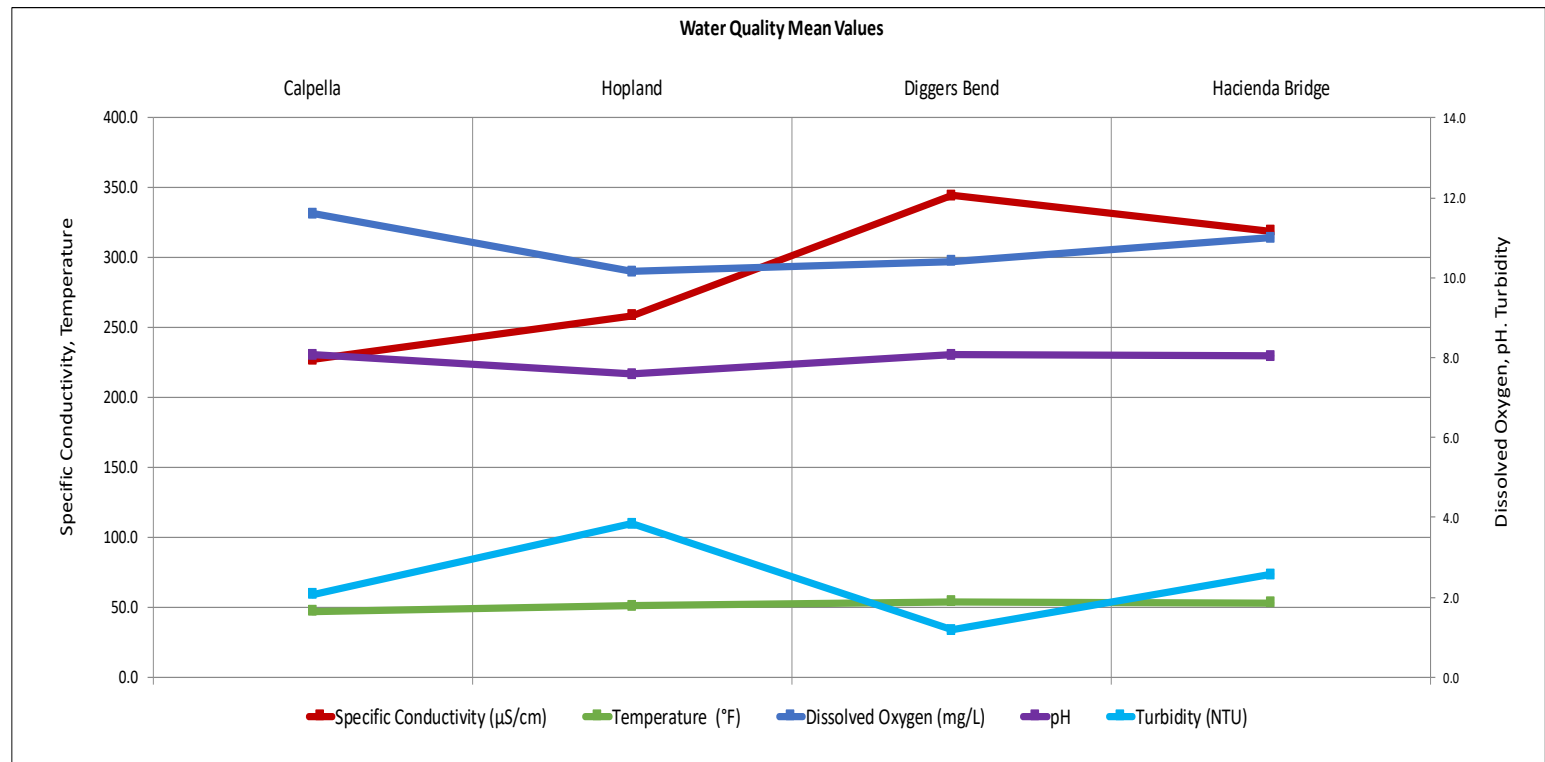
\*West Fork (USGS 11461000) + East Fork (Coyote Valley Dam Release)



**Russian River Water Quality (February 18, 2022 - February 24, 2022)**

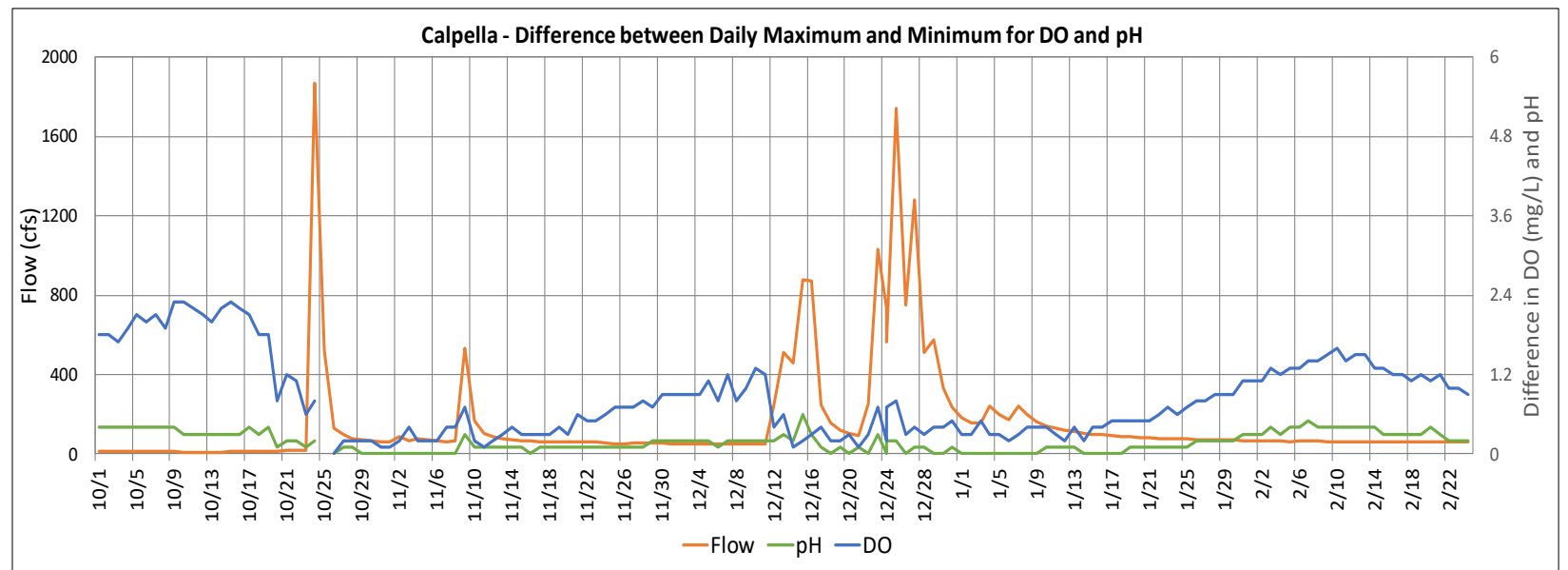
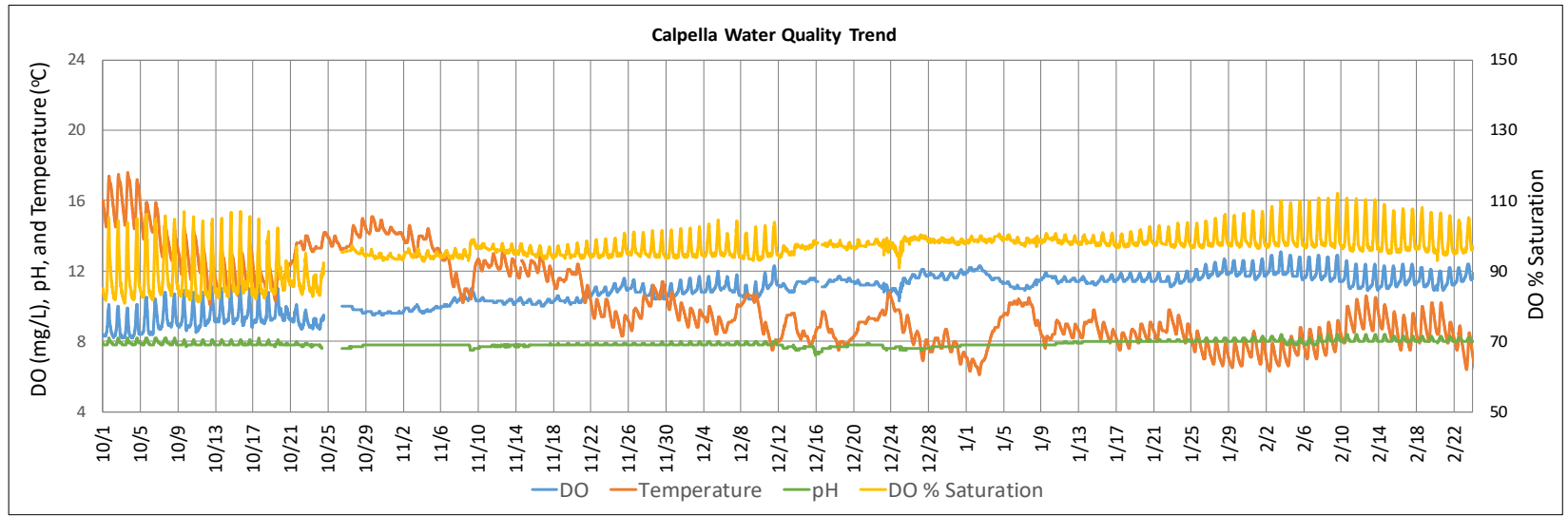
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463200	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	43.3	46.4			50.0		49.6	
	Max	50.4	54.3			57.7		55.8	
	Mean	47.0	50.8			54.1		53.3	
Specific Conductivity (µS/cm)	Min	222.0	234.0			340.0		317.0	
	Max	231.0	266.0			347.0		323.0	
	Mean	227.1	258.7			344.6		319.1	
Dissolved Oxygen (mg/L)	Min	10.9	9.6			9.0		9.5	
	Max	12.5	11.3			12.9		12.5	
	Mean	11.6	10.2			10.4		11.0	
Dissolved Oxygen (% Saturation)	Min	92.9	84.4			84.0		86.9	
	Max	108.1	101.0			125.4		118.6	
	Mean	98.7	91.0			97.3		101.6	
pH	Min	7.9	7.5			7.9		7.8	
	Max	8.3	7.7			8.4		8.4	
	Mean	8.1	7.6			8.1		8.0	
Turbidity (NTU)	Min	1.7	3.1			0.8		2.0	
	Max	2.5	5.0			3.3		3.4	
	Mean	2.1	3.8			1.2		2.6	

\*Station operated seasonally



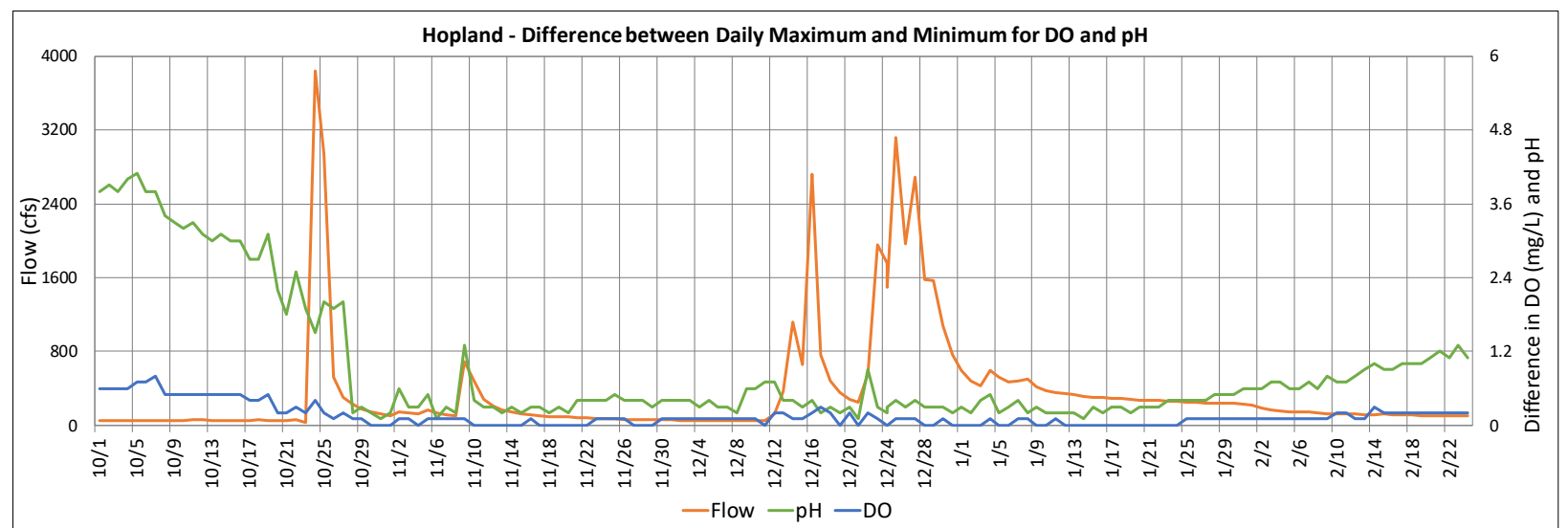
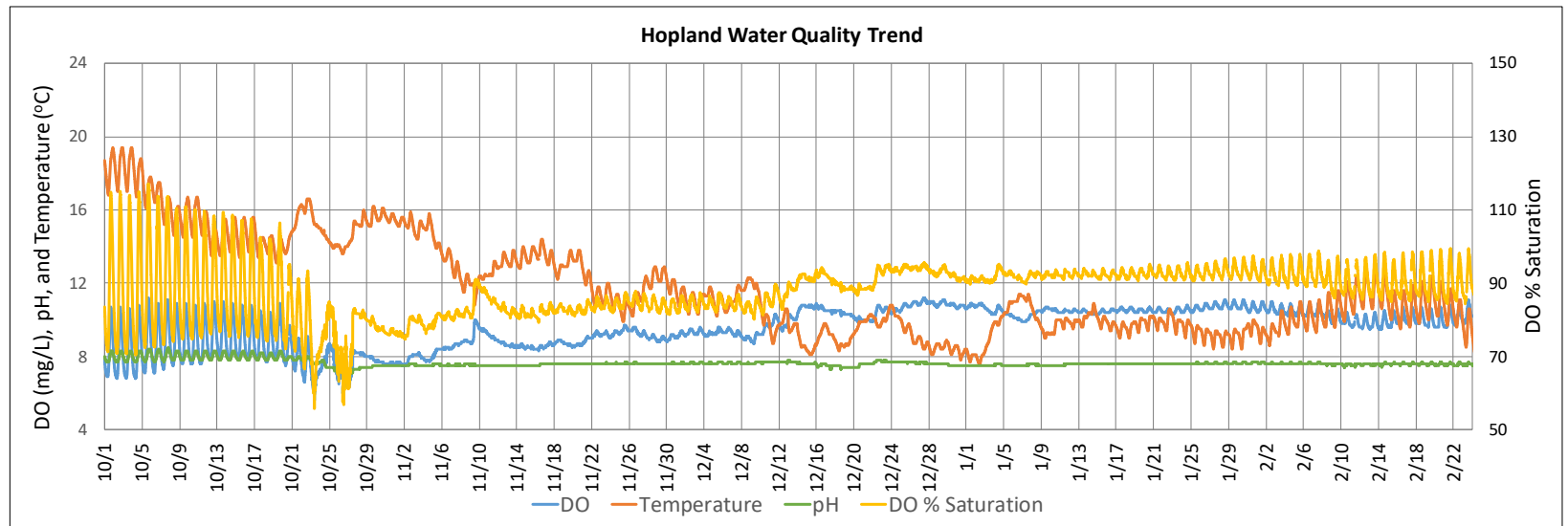
Russian River Water Quality (October 1, 2021 - February 24, 2022)

Calpella (East Fork Russian River)



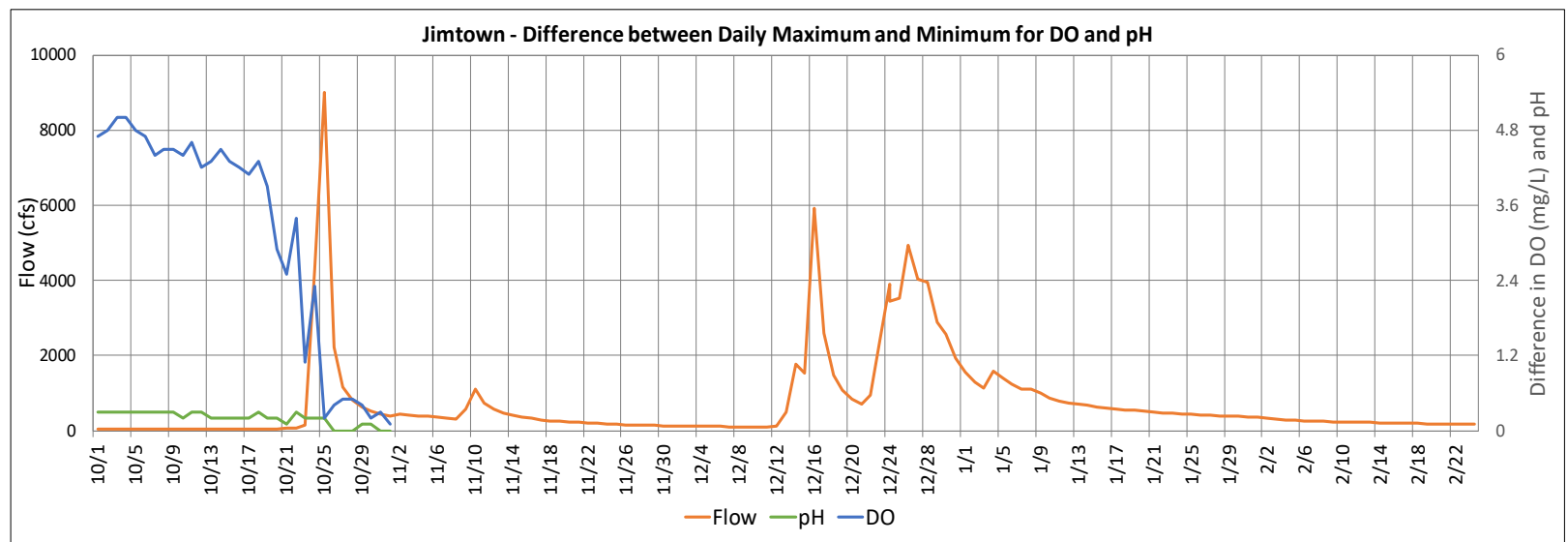
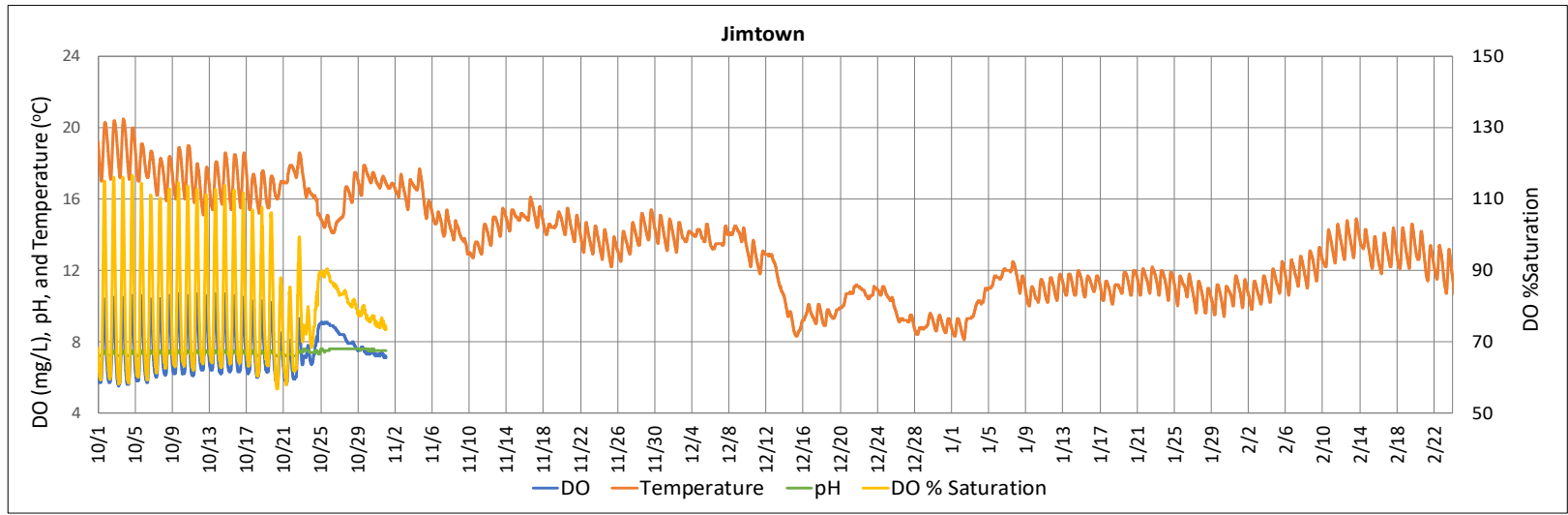
Russian River Water Quality (October 1, 2021 - February 24, 2022)

Hopland



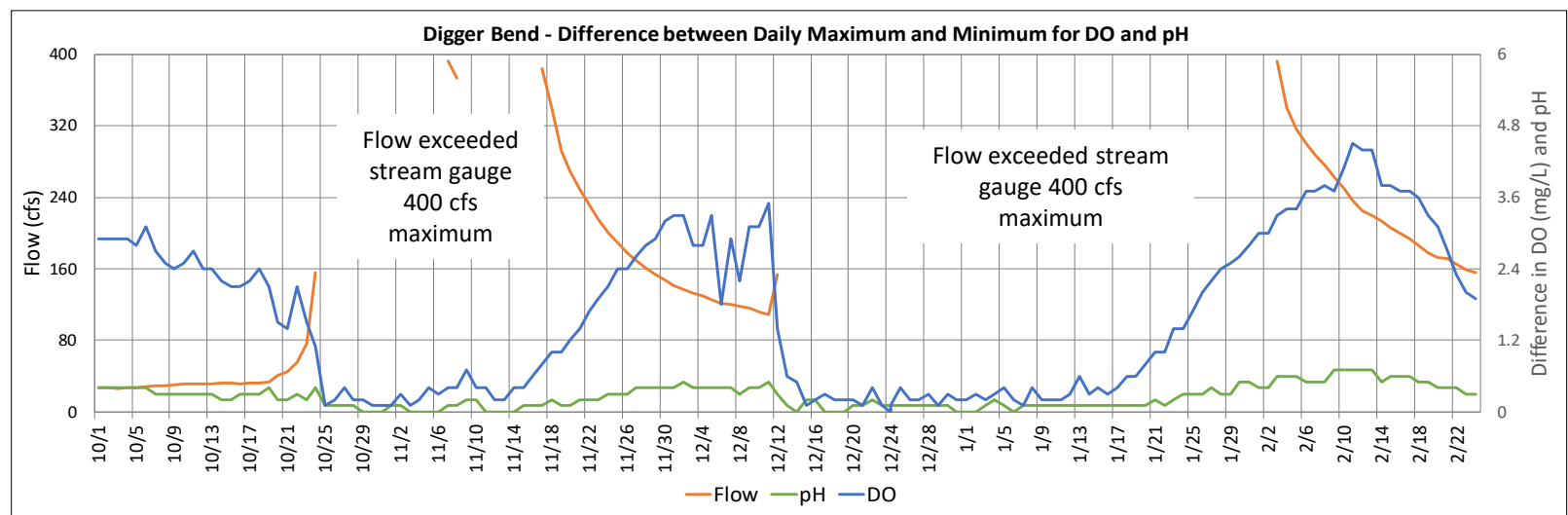
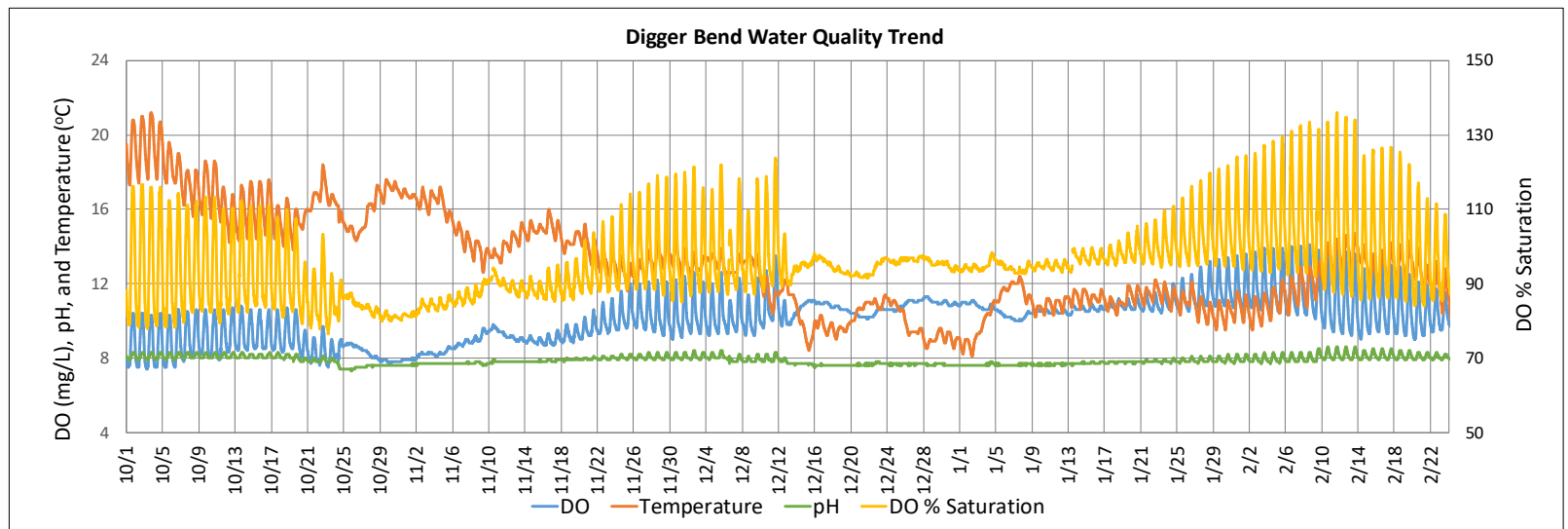
Russian River Water Quality (October 1, 2021 - February 24, 2022)

Jimtown



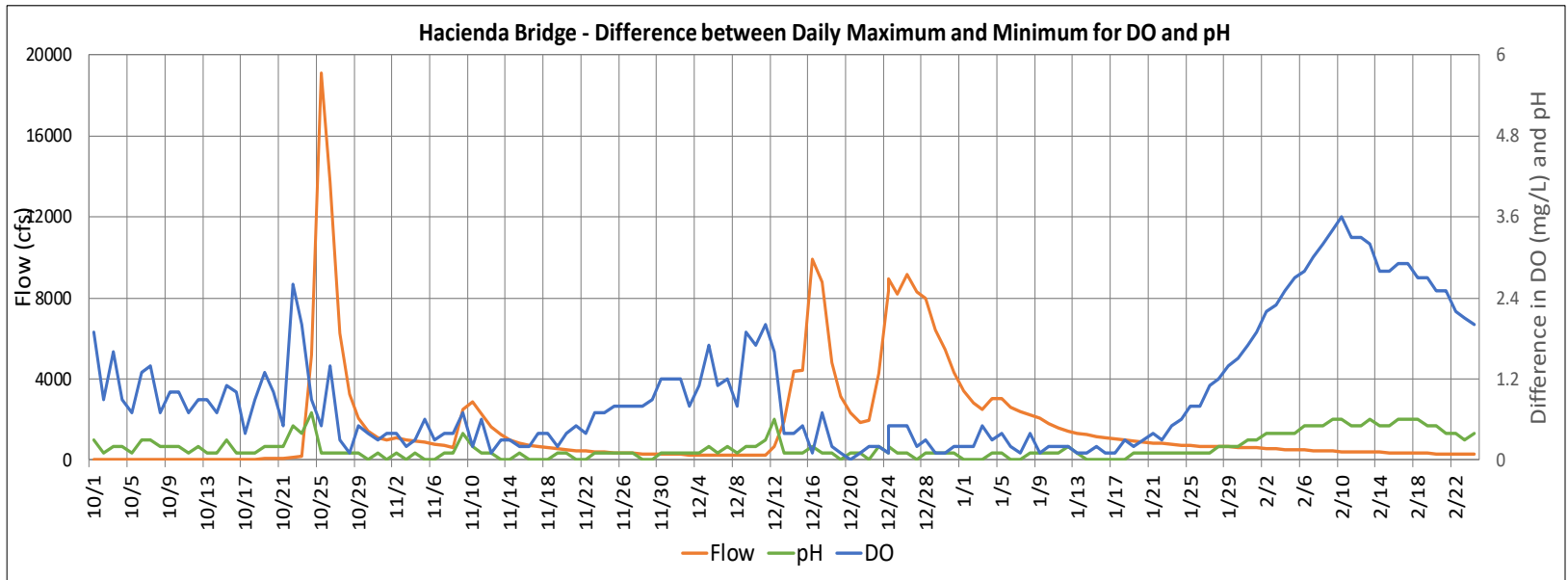
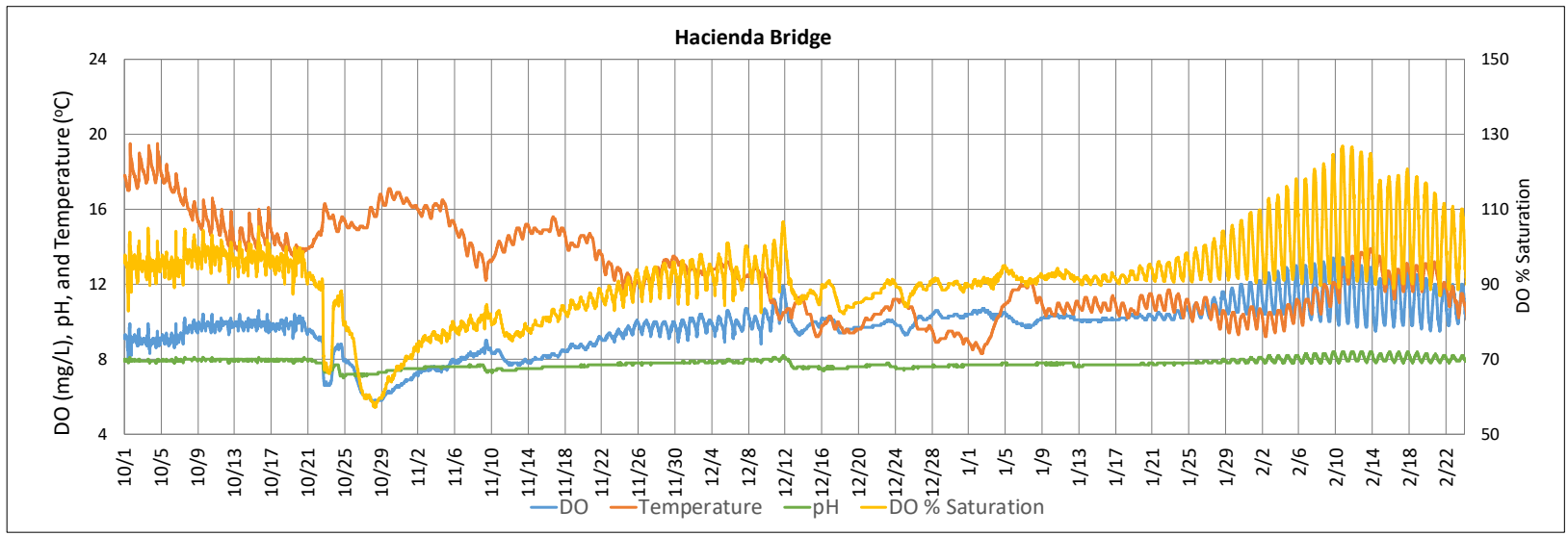
Russian River Water Quality (October 1, 2021 - February 24, 2022)

Digger Bend



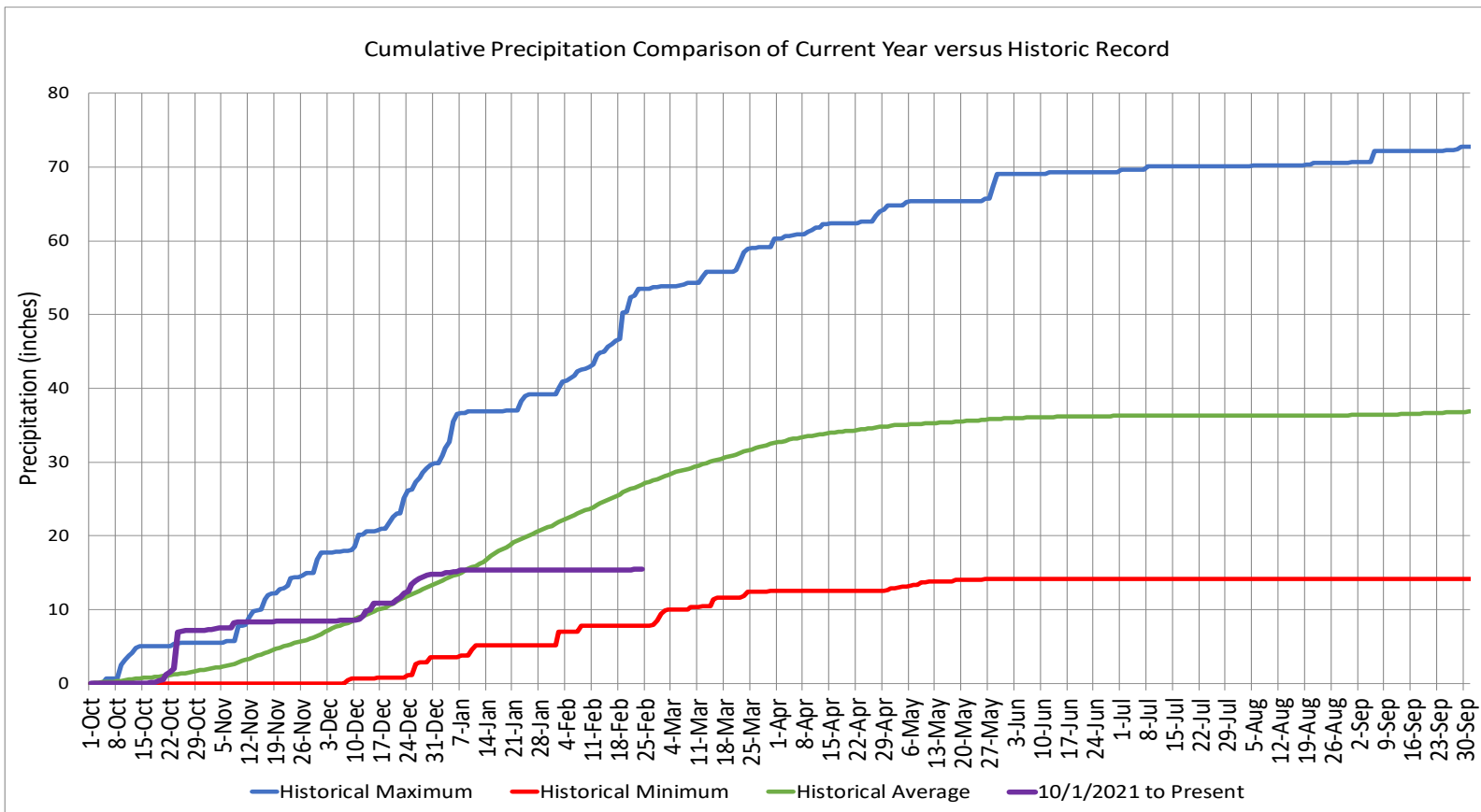
Russian River Water Quality (October 1, 2021 - February 24, 2022)

Hacienda Bridge



### Precipitation

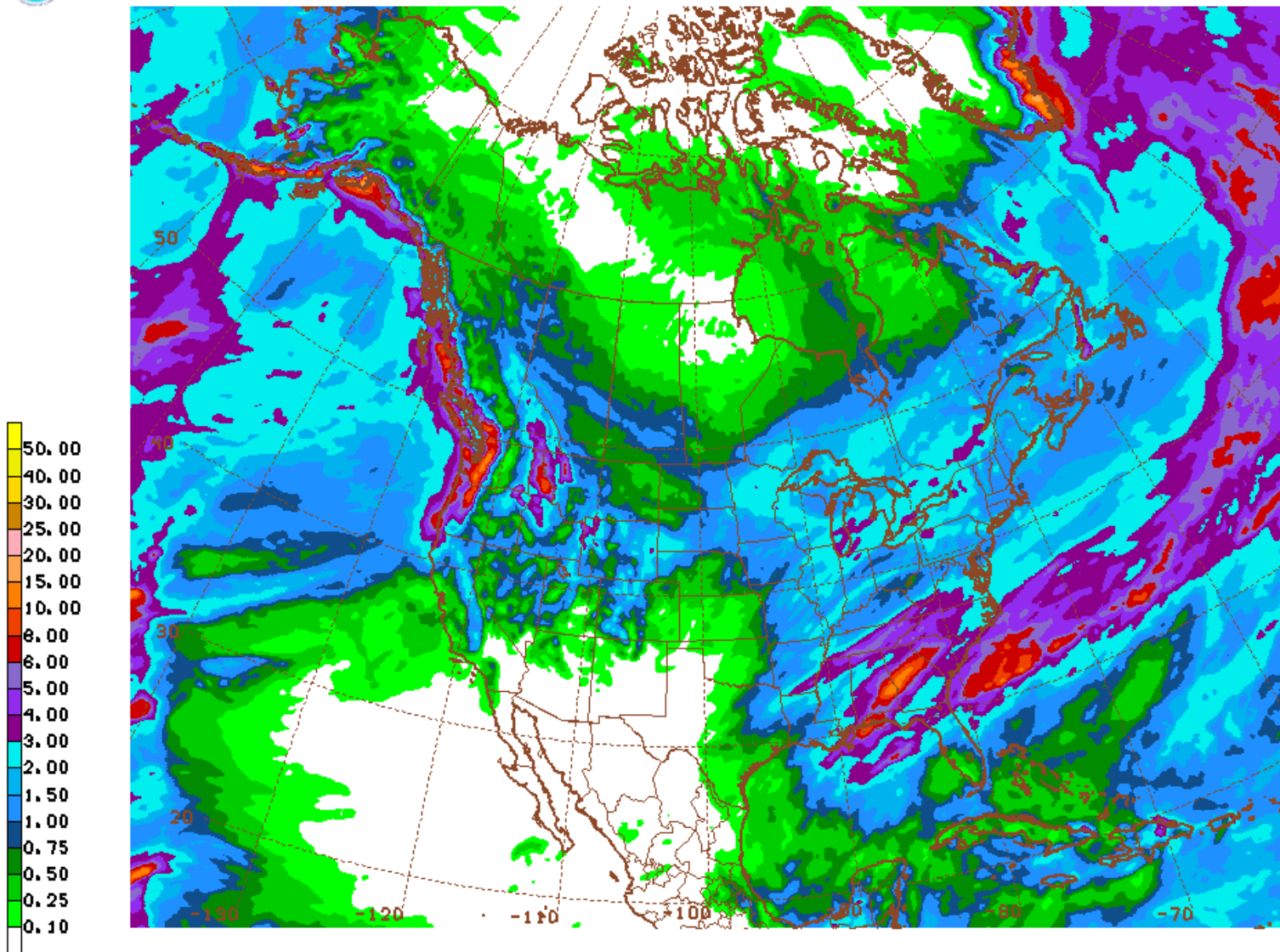
Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2021 - Feb 24, 2022	<b>15.47</b>
Last 7 Days*	<b>0.10</b>



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



GFS 02/28/22 12UTC 384HR FCST VALID WED 03/16/22 12UTC NOAA/NWS/NCEP



GFS WED 220316/1200V384 384HR ACCUMULATED PRECIP (IN)

Date Range  
Feb 28 - Mar 16, 2022

Forecasted Cumulative (inches)  
**0.2**