



Sonoma Water

**State Water Resources Control Board
 Temporary Urgency Change Order (12/11/2021)
 Russian River Hydrologic Report
 March 25, 2022 - March 31, 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).

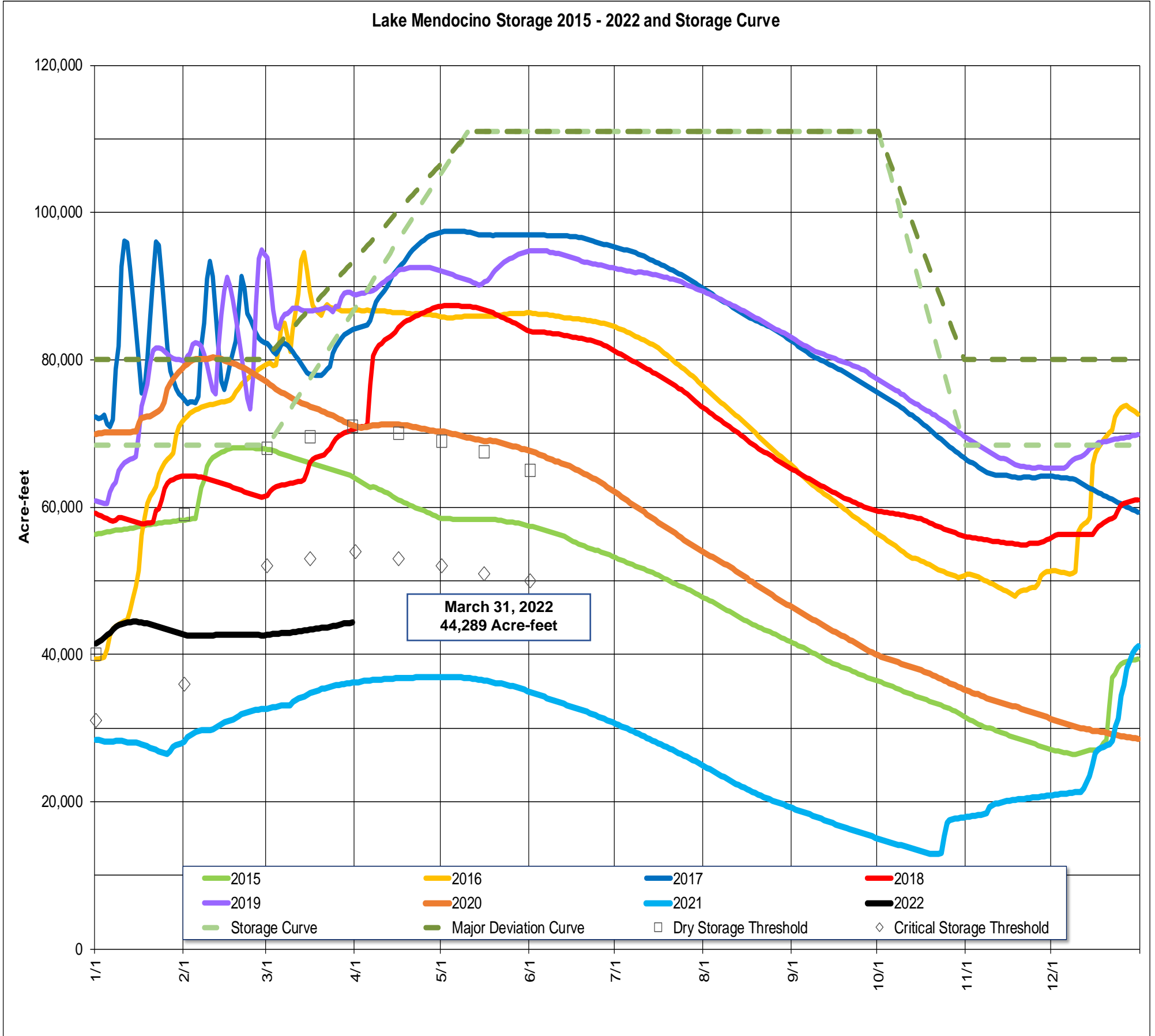
Instream Flow Requirements as of March 31, 2022

Basis	Reach	Instantaneous (cfs)	5-day Average (cfs)
Modified Per Order: Critical Condition	Upper Russian River	25	-
Modified Per Order: Critical Condition	Dry Creek	75	-
Modified Per Order: Critical Condition	Lower Russian River	35	-

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



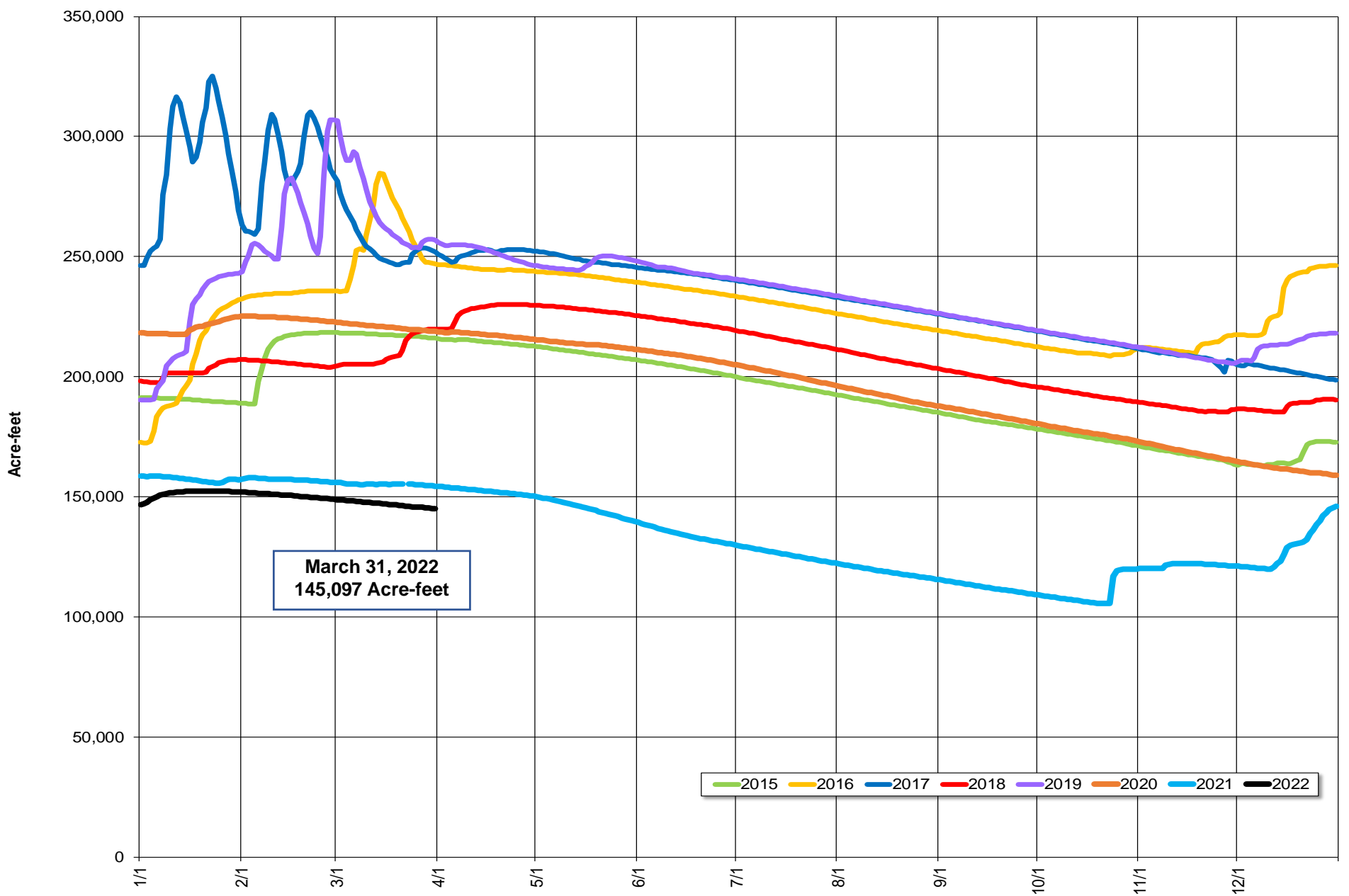
Storage (acre-feet)	March 31, 2022	44,289	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	1,710	57
	Last 7 days	473	68
Daily Inflow (cfs)	Last 7 days	Min	58
		Max	95
		Mean	73
Release (cfs)	Last 7 days	Min	28
		Max	29
		Mean	29

Lake Sonoma



Nathan Baskett, March 3 , 2011

Lake Sonoma Storage 2015-2022



Storage (acre-feet)	March 31, 2022	145,097	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	-3,965	-132
	Last 7 days	-800	-114
Daily Inflow (cfs)	Last 7 days	Min	8
		Max	61
		Mean	26
Release (cfs)	Last 7 days	Min	77
		Max	119
		Mean	87

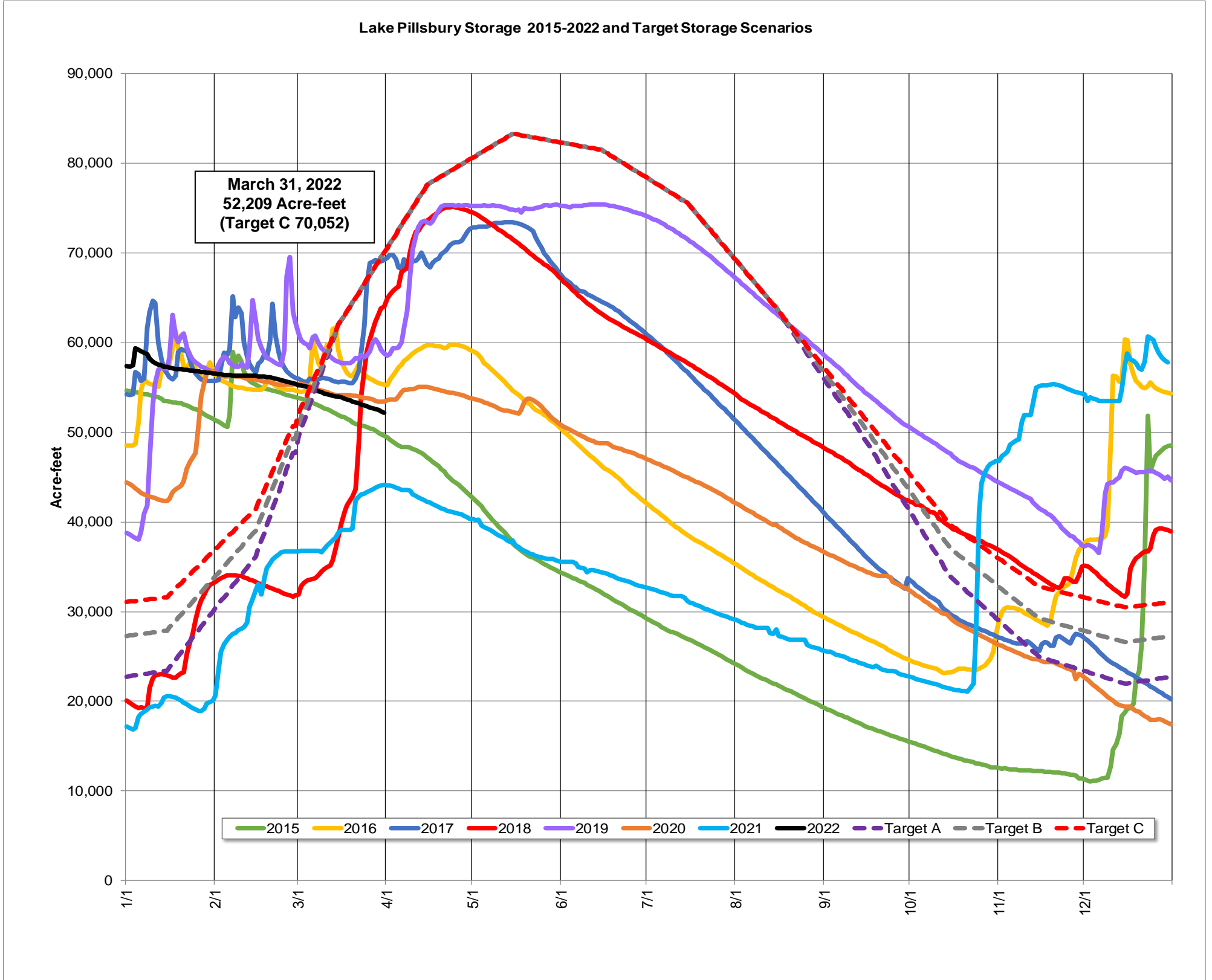
Potter Valley Project

PVP Diversion (cfs)	March 31, 2022	72
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Lake Pillsbury

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2021 - March 31, 2022	191,751	1059
	Last 7 days	1,802	257

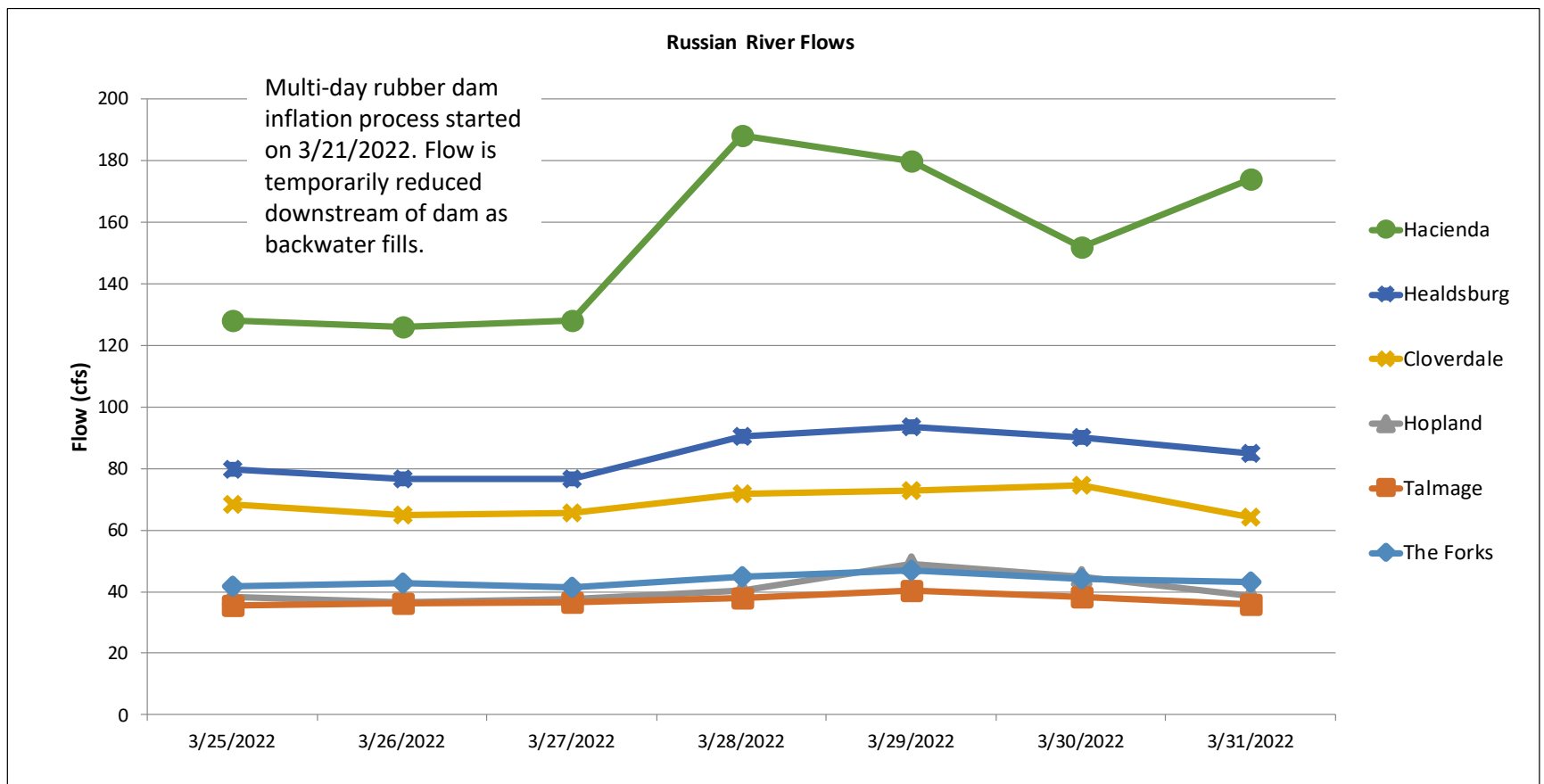
*Inflow calculation based on criteria established in D1610



Russian River Flows (March 25, 2022 - March 31, 2022)

Gage	24-hr Average Flow (cfs)						
	Mar 25, 2022	Mar 26, 2022	Mar 27, 2022	Mar 28, 2022	Mar 29, 2022	Mar 30, 2022	Mar 31, 2022
The Forks*	42	43	42	45	47	44	43
Talmage USGS 11462080	36	36	37	38	40	38	36
Hopland USGS 11462500	38	37	38	40	49	45	39
Cloverdale USGS 11463000	68	65	66	72	73	74	64
Healdsburg USGS 11464000	80	77	77	90	94	90	85
Hacienda USGS 11467000	128	126	128	188	180	152	174

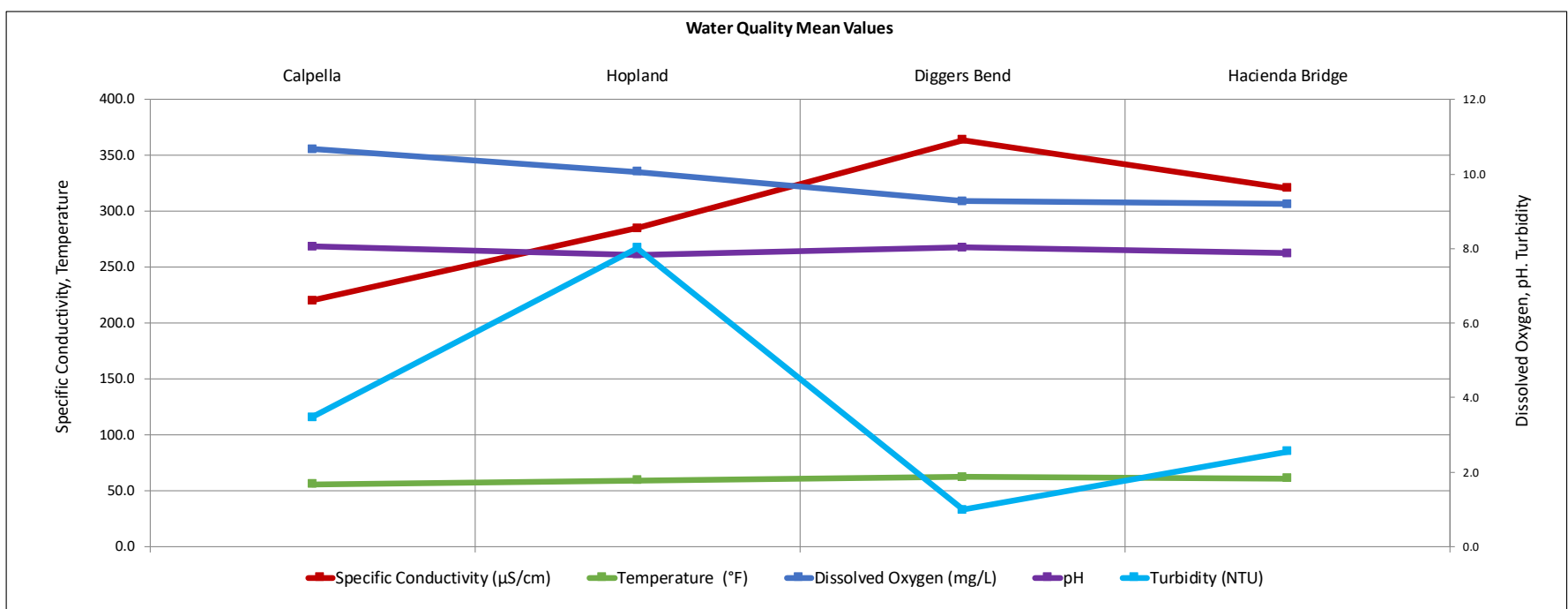
*West Fork (USGS 11461000) + East Fork (Coyote Valley Dam Release)



Russian River Water Quality (March 25, 2022 - March 31, 2022)

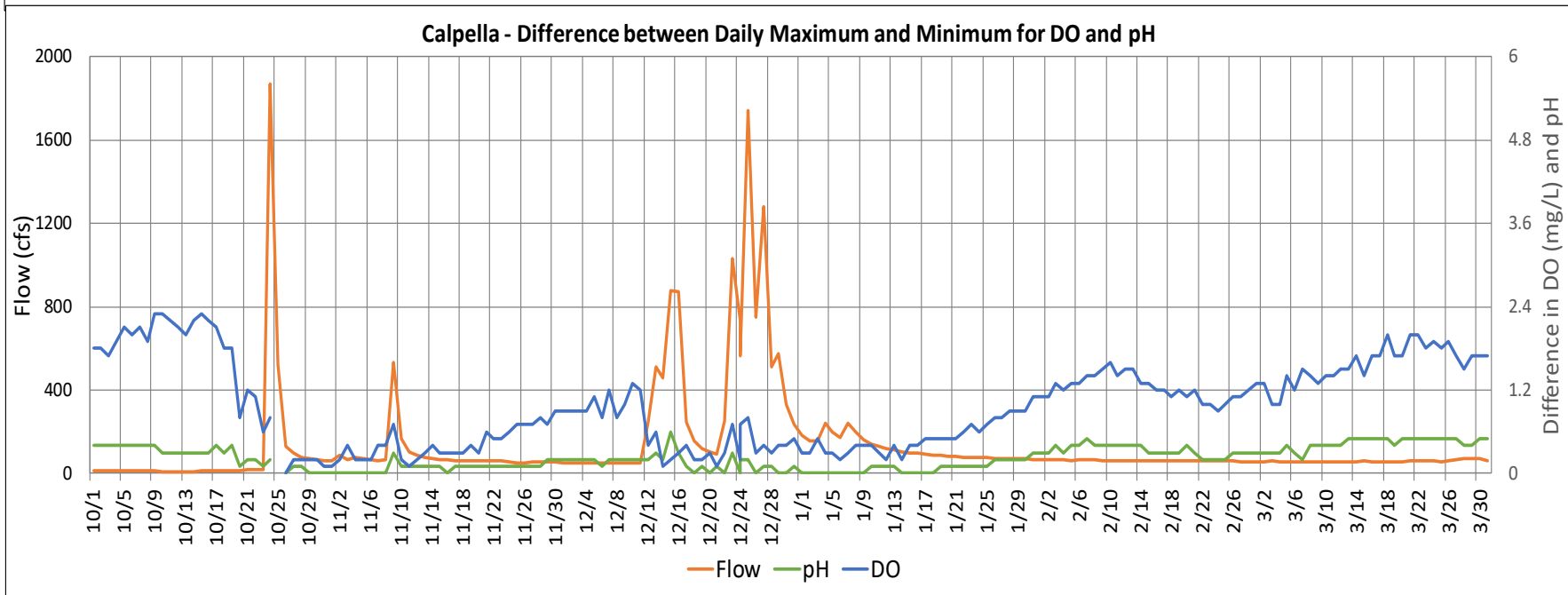
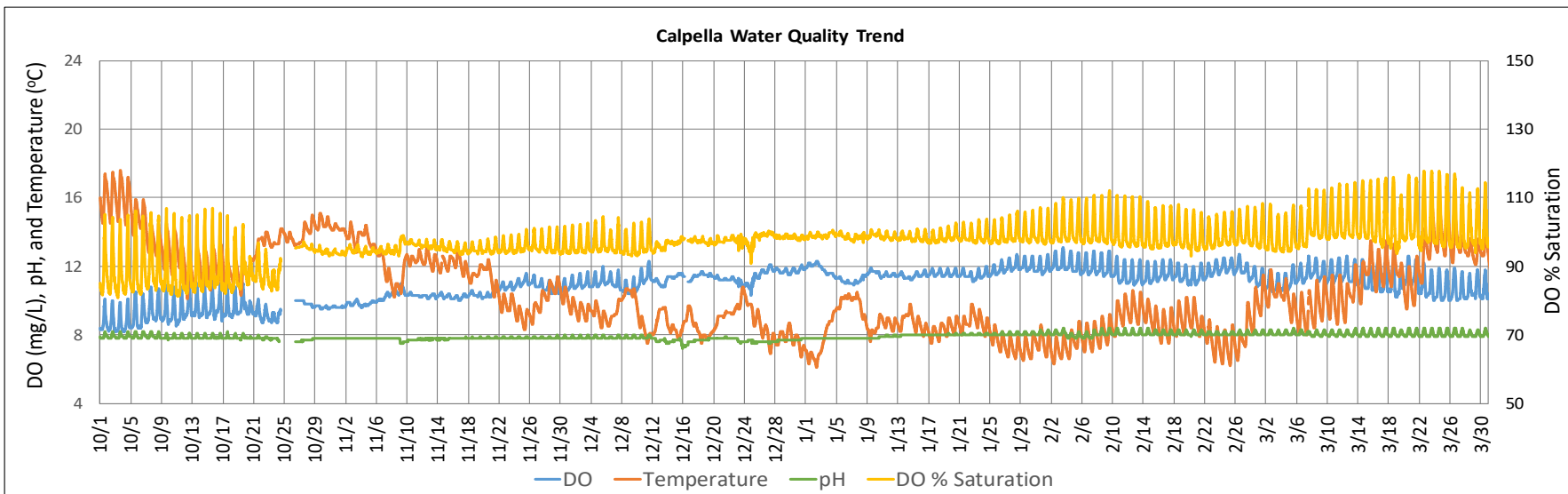
Parameter	Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
	USGS 11461500	USGS 11462500	USGS 11463200	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	53.1	55.4			58.1	57.6	
	Max	59.5	62.2			67.1	64.6	
	Mean	55.7	58.9			62.2	61.0	
Specific Conductivity (µS/cm)	Min	215.0	279.0			354.0	293.0	
	Max	228.0	291.0			368.0	375.0	
	Mean	220.0	284.8			363.8	320.6	
Dissolved Oxygen (mg/L)	Min	10.0	7.7			8.0	8.4	
	Max	11.9	13.4			11.2	10.5	
	Mean	10.7	10.1			9.3	9.2	
Dissolved Oxygen (% Saturation)	Min	93.9	74.7			81.2	81.8	
	Max	117.0	134.6			120.2	111.1	
	Mean	101.6	99.9			95.7	93.5	
pH	Min	7.9	7.5			7.9	7.6	
	Max	8.4	8.4			8.3	8.2	
	Mean	8.1	7.8			8.0	7.9	
Turbidity (NTU)	Min	1.5	2.7			0.5	1.4	
	Max	6.1	13.5			2.2	4.6	
	Mean	3.5	8.0			1.0	2.5	

*Station operated seasonally



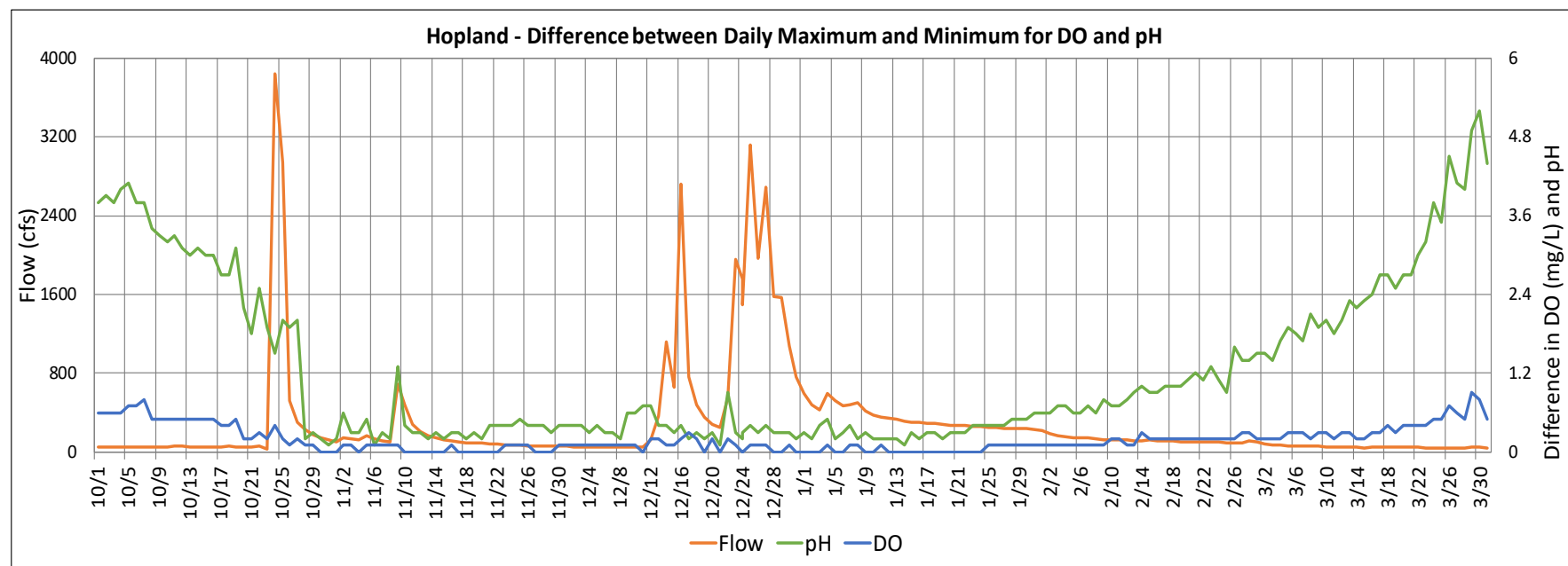
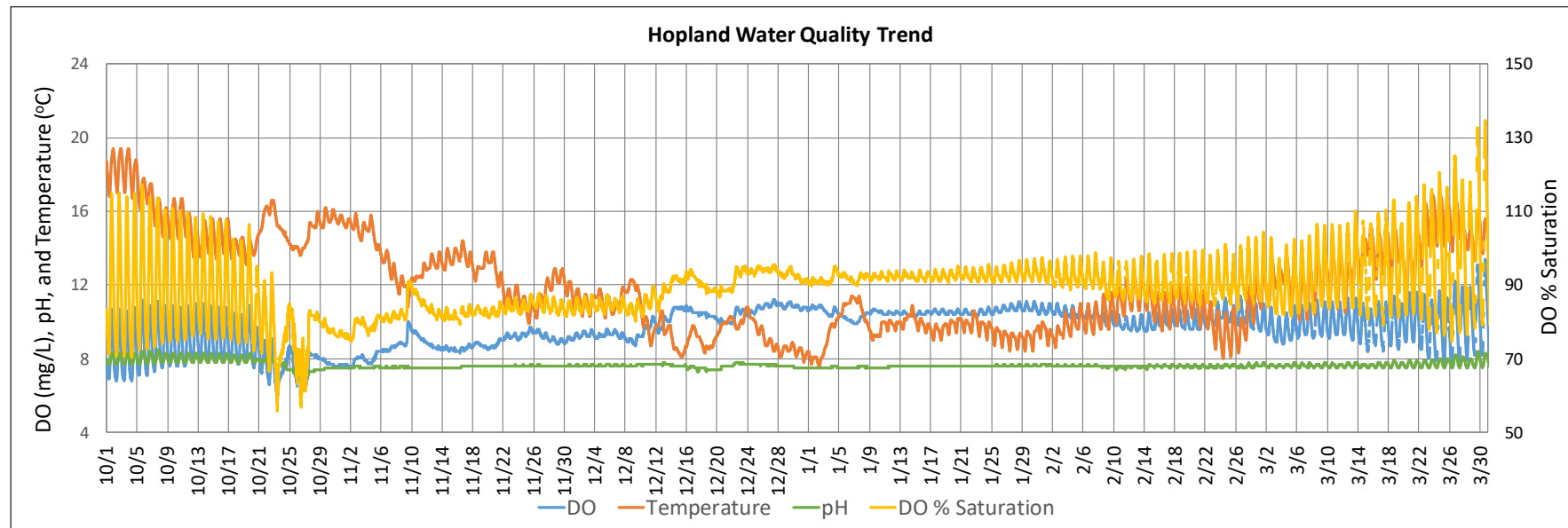
Russian River Water Quality (October 1, 2021 - March 31, 2022)

Calpella (East Fork Russian River)



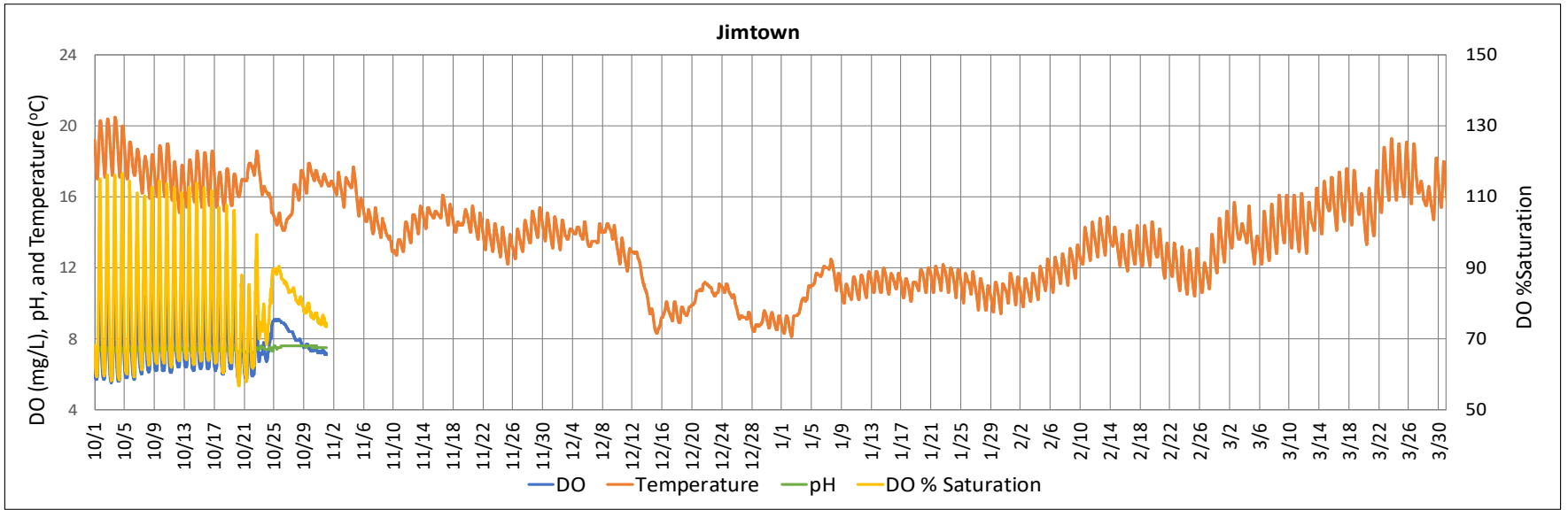
Russian River Water Quality (October 1, 2021 - March 31, 2022)

Hopland

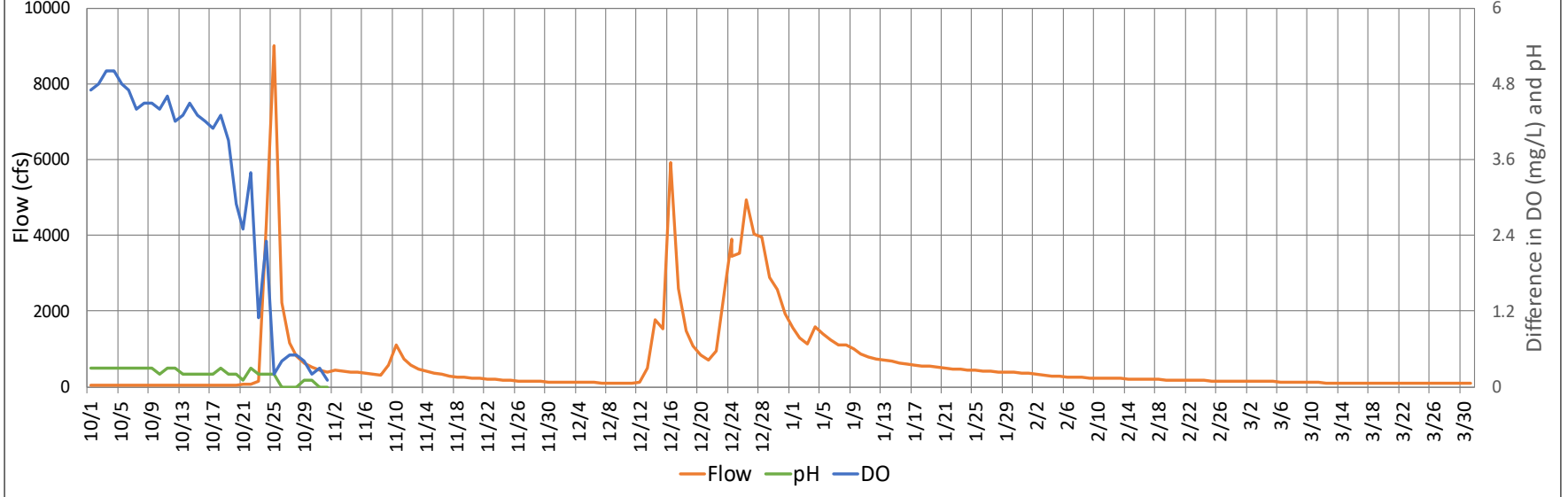


Russian River Water Quality (October 1, 2021 - March 31, 2022)

Jimtown

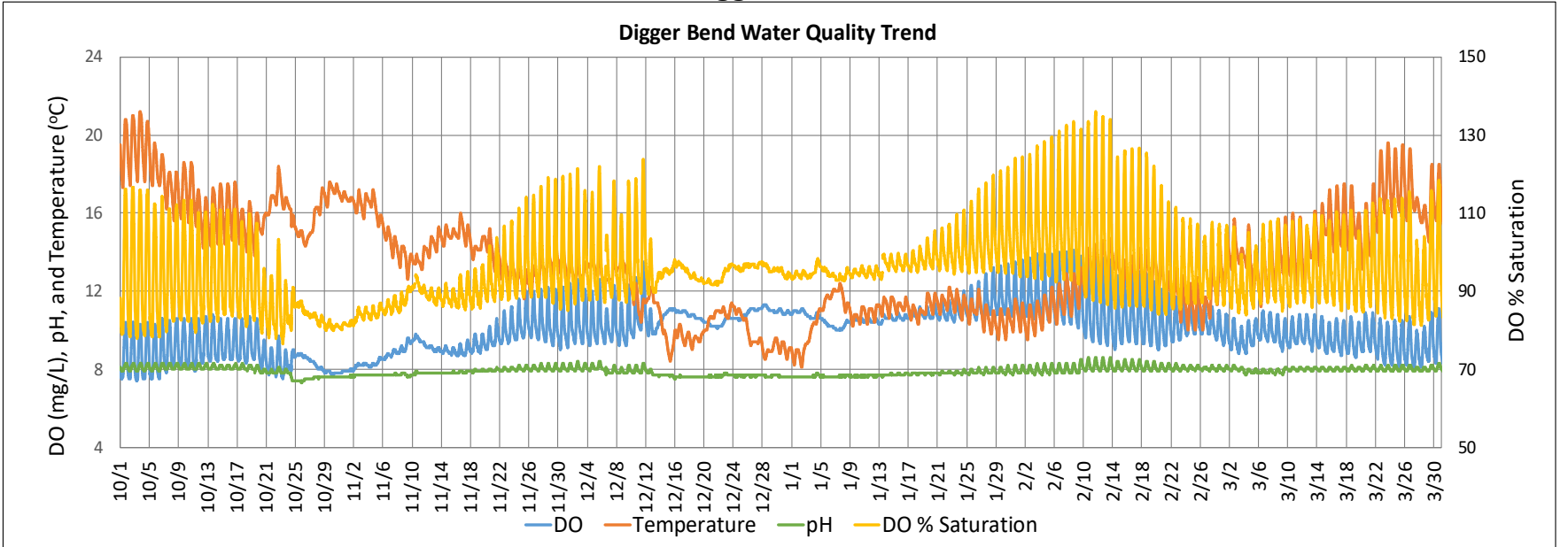


Jimtown - Difference between Daily Maximum and Minimum for DO and pH

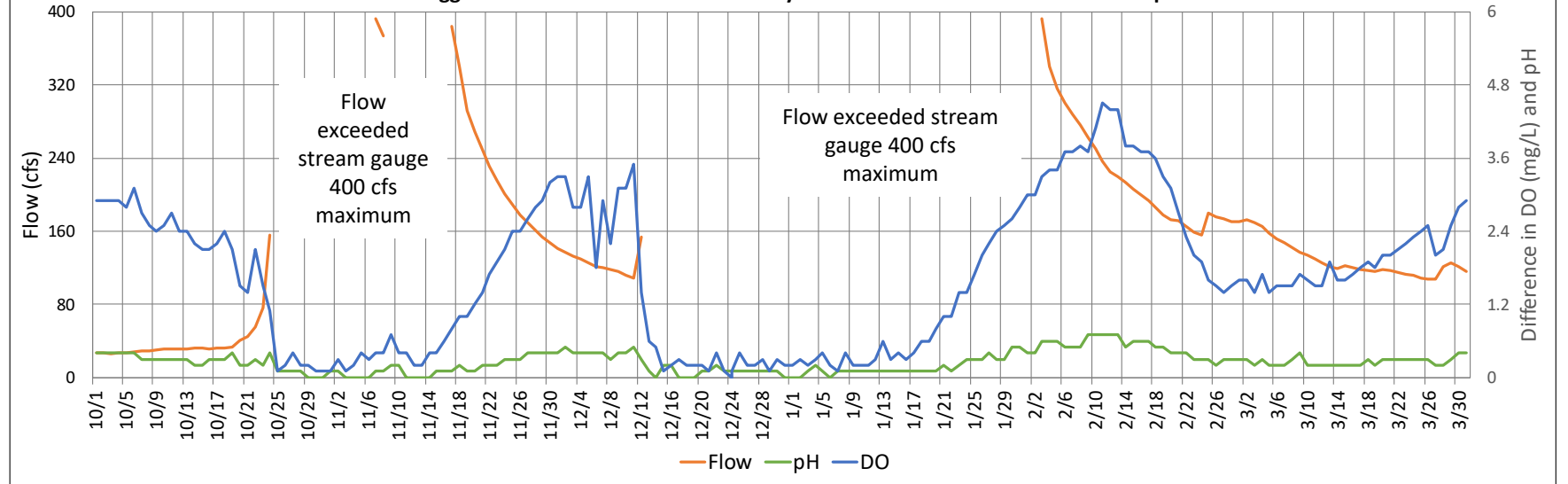


Russian River Water Quality (October 1, 2021 - March 31, 2022)

Digger Bend

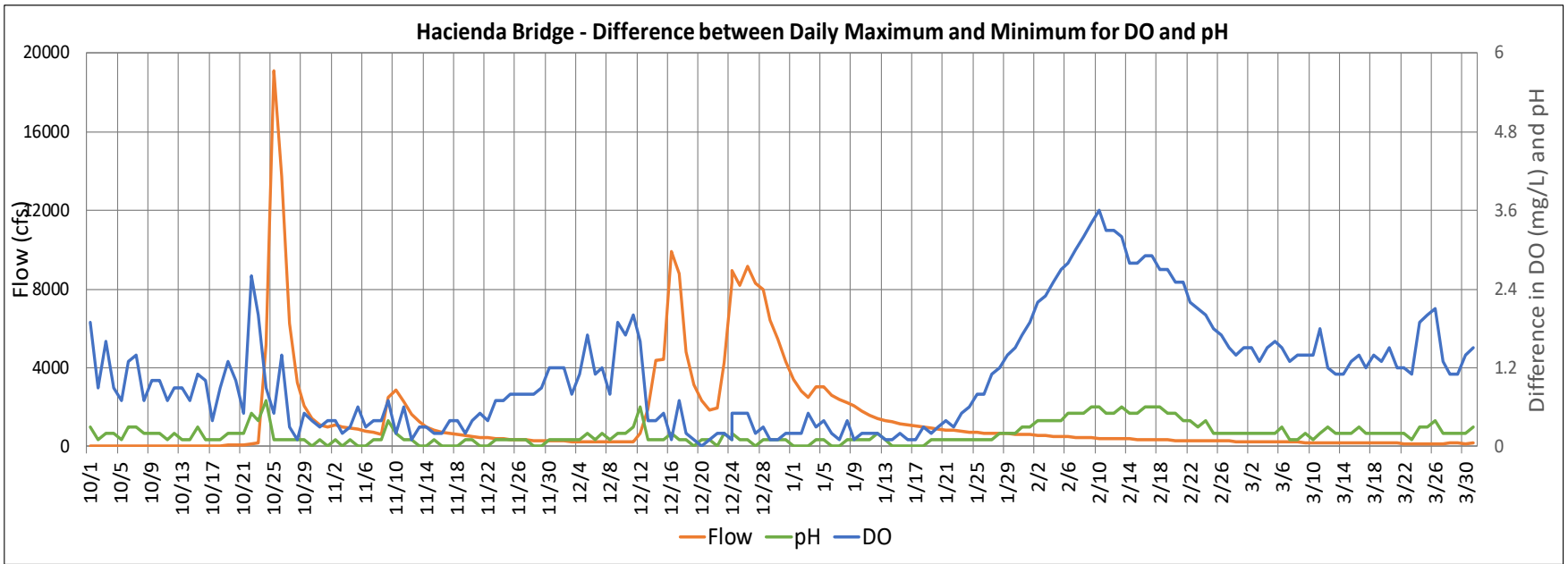
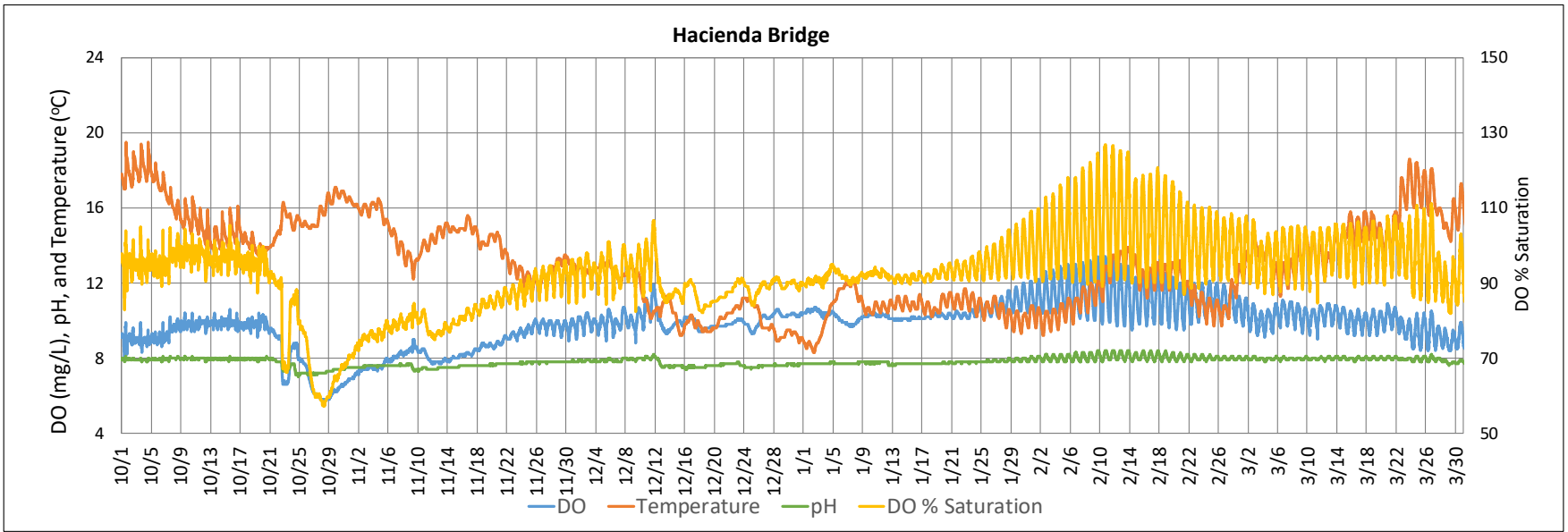


Digger Bend - Difference between Daily Maximum and Minimum for DO and pH



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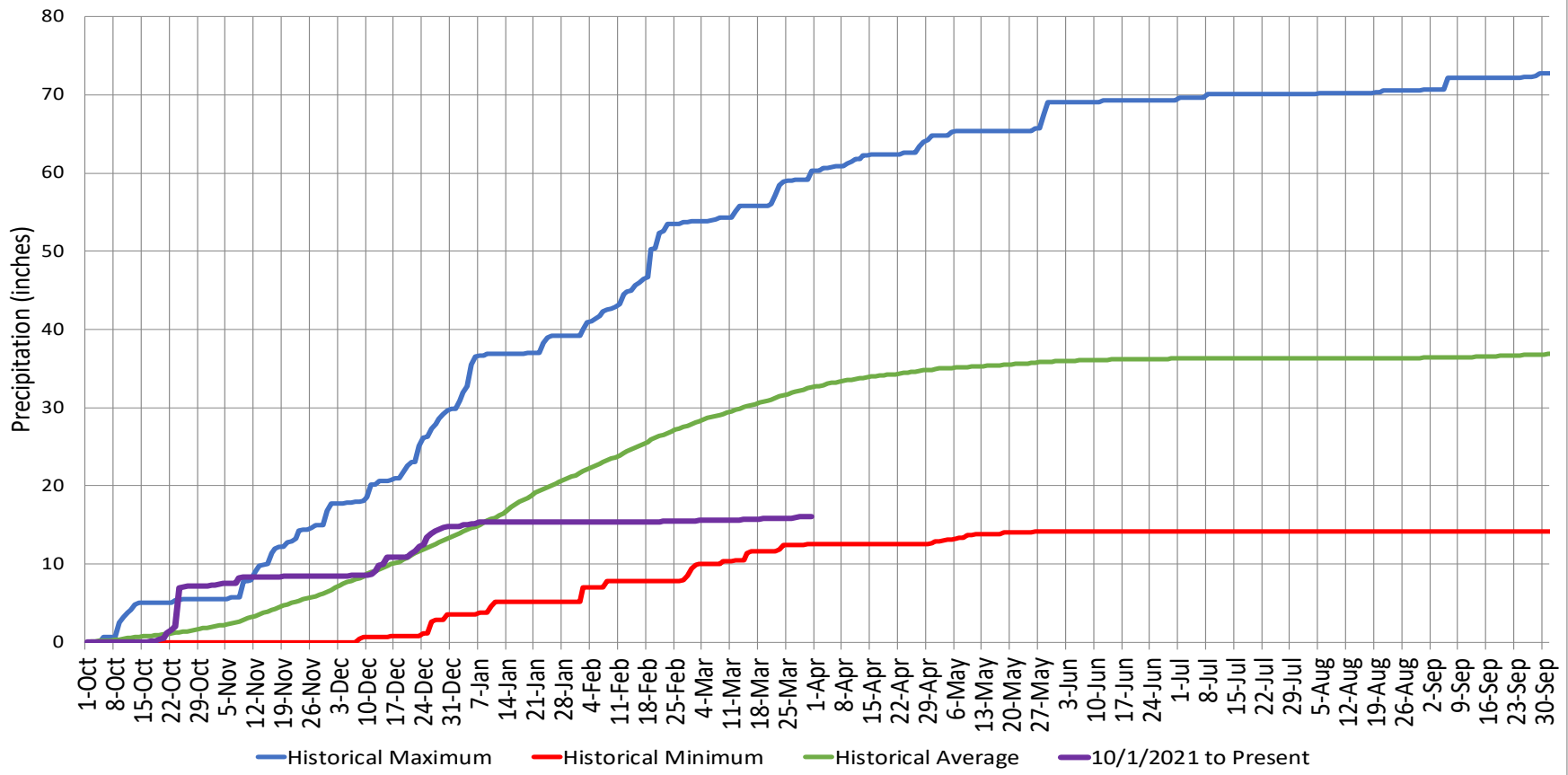
Hacienda Bridge



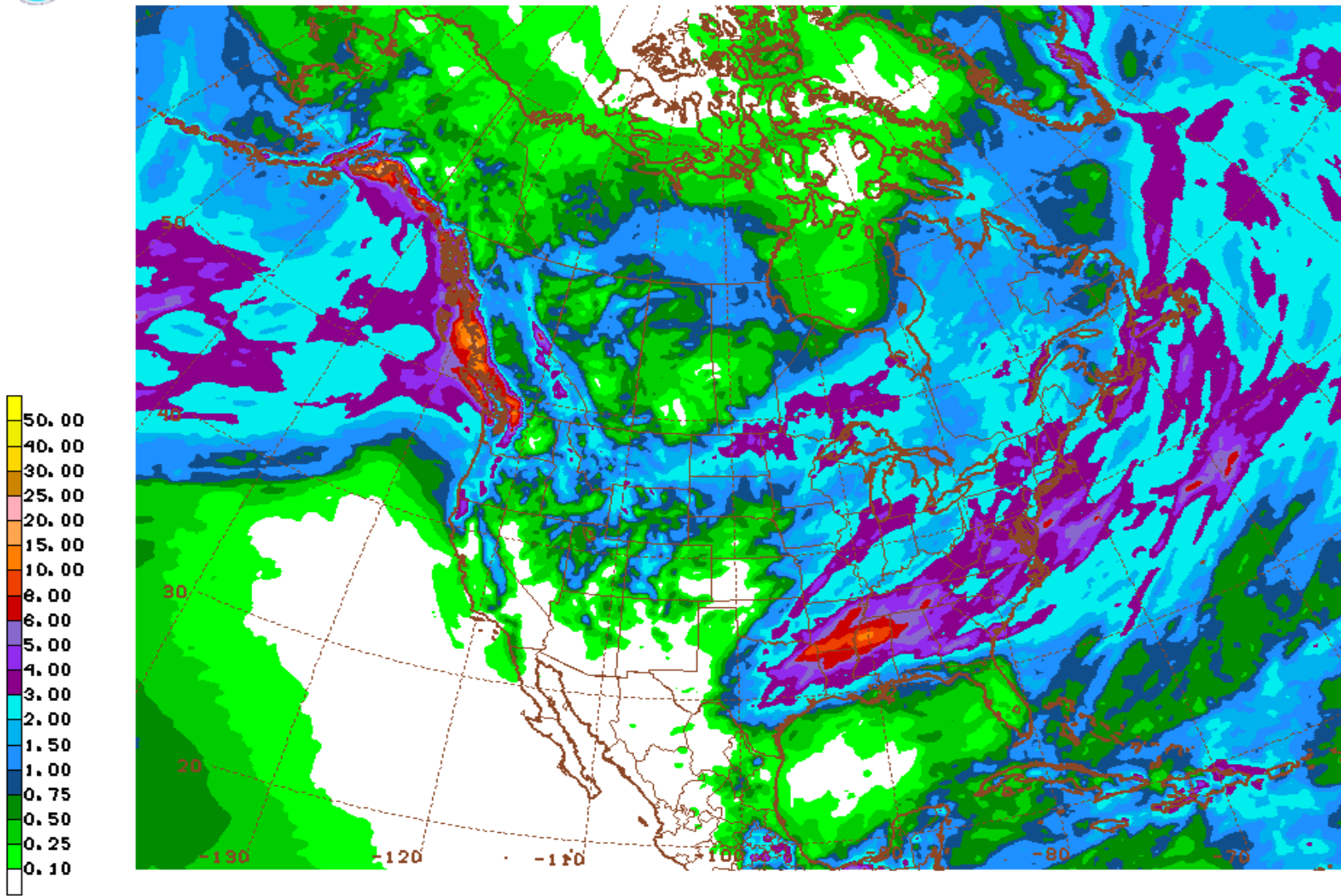
Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2021 - Mar 31, 2022	16.09
Last 7 Days*	0.23

Cumulative Precipitation Comparison of Current Year versus Historic Record



GFS 04/04/22 12UTC 384HR FCST VALID WED 04/20/22 12UTC NOAA/NWS/NCEP



GFS WED 220420/1200V384 384HR ACCUMULATED PRECIP (IN)

Date Range	Forecasted Cumulative (inches)
Apr 4 - Apr 20, 2022	0.22