



Sonoma Water

**State Water Resources Control Board
Temporary Urgency Change Order (12/11/2021)
Russian River Hydrologic Report
January 28, 2022 - February 3, 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).

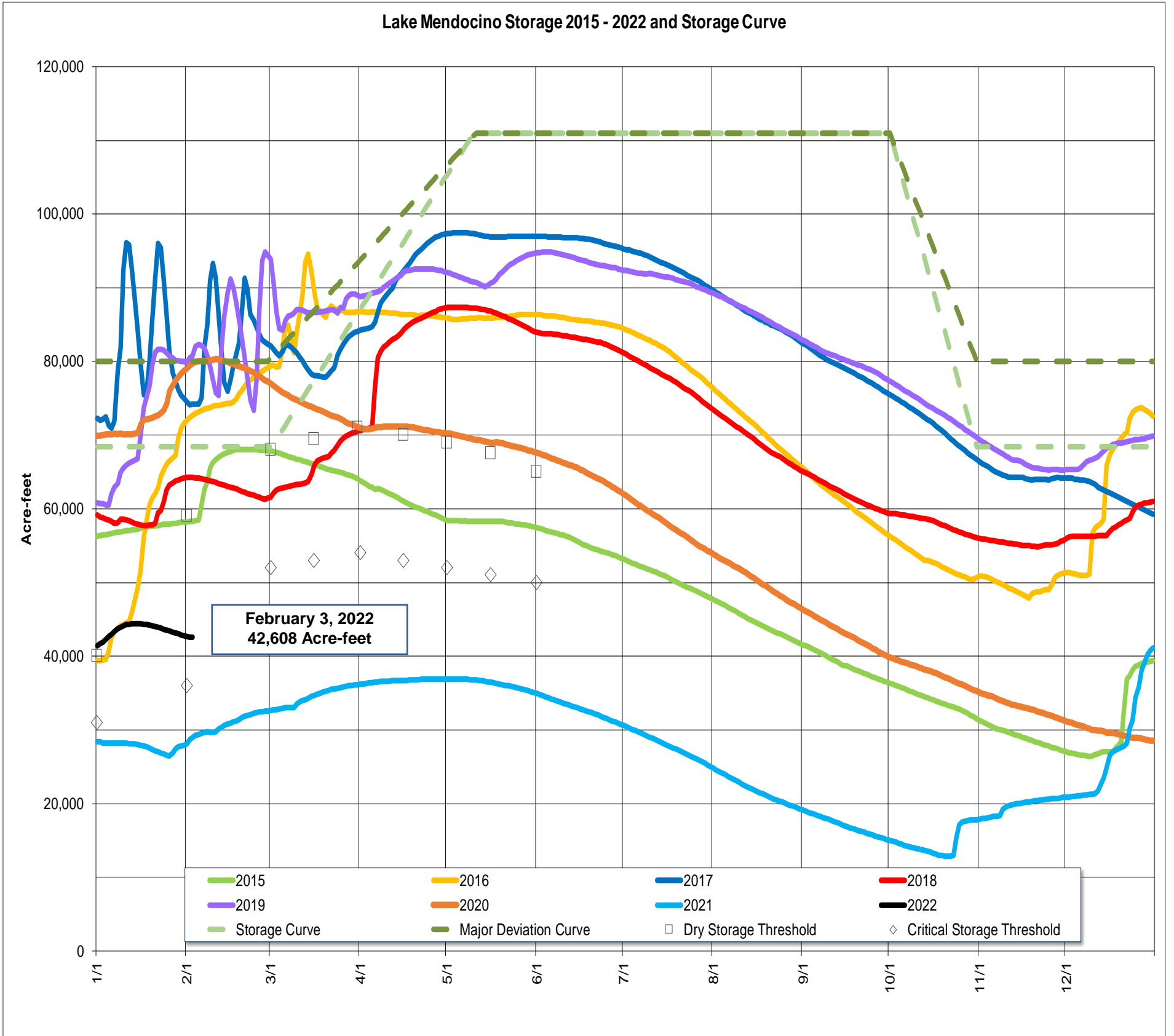
Instream Flow Requirements as of February 3, 2022

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

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

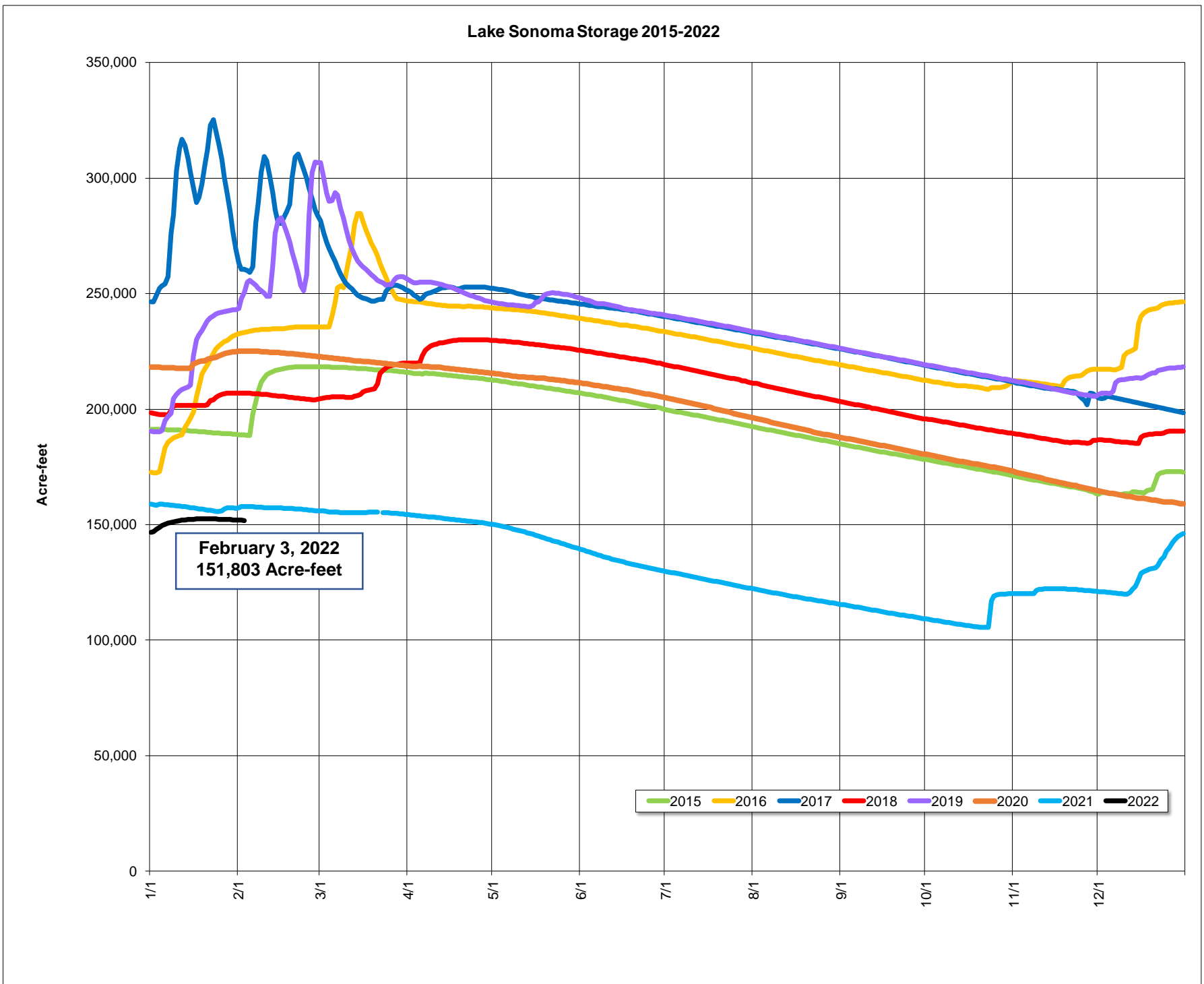


Storage (acre-feet)	February 3, 2022	42,608	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	268	9
	Last 7 days	-539	-77
Daily Inflow (cfs)	Last 7 days	Min	47
		Max	90
		Mean	69
Release (cfs)	Last 7 days	Min	66
		Max	137
		Mean	114

Lake Sonoma



Nathan Baskett, March 3 , 2011



Storage (acre-feet)	February 3, 2022	151,803	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	2,926	98
	Last 7 days	-441	-63
Daily Inflow (cfs)	Last 7 days	Min	32
		Max	61
		Mean	46
Release (cfs)	Last 7 days	Min	76
		Max	77
		Mean	77

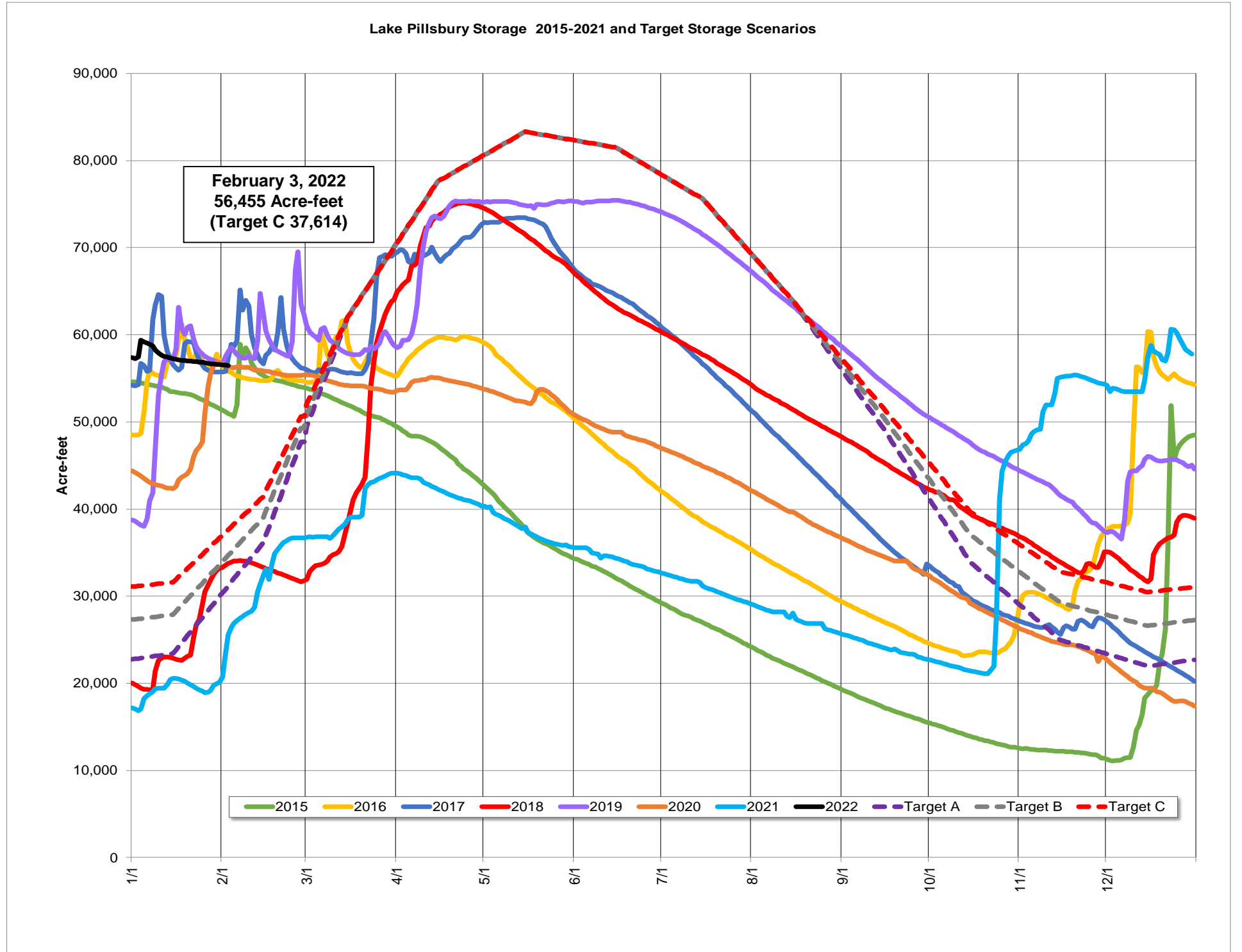
Potter Valley Project

PVP Diversion (cfs)	February 3, 2022	46
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Lake Pillsbury

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2021 - February 3, 2022	173,138	1385
	Last 7 days	3,020	431

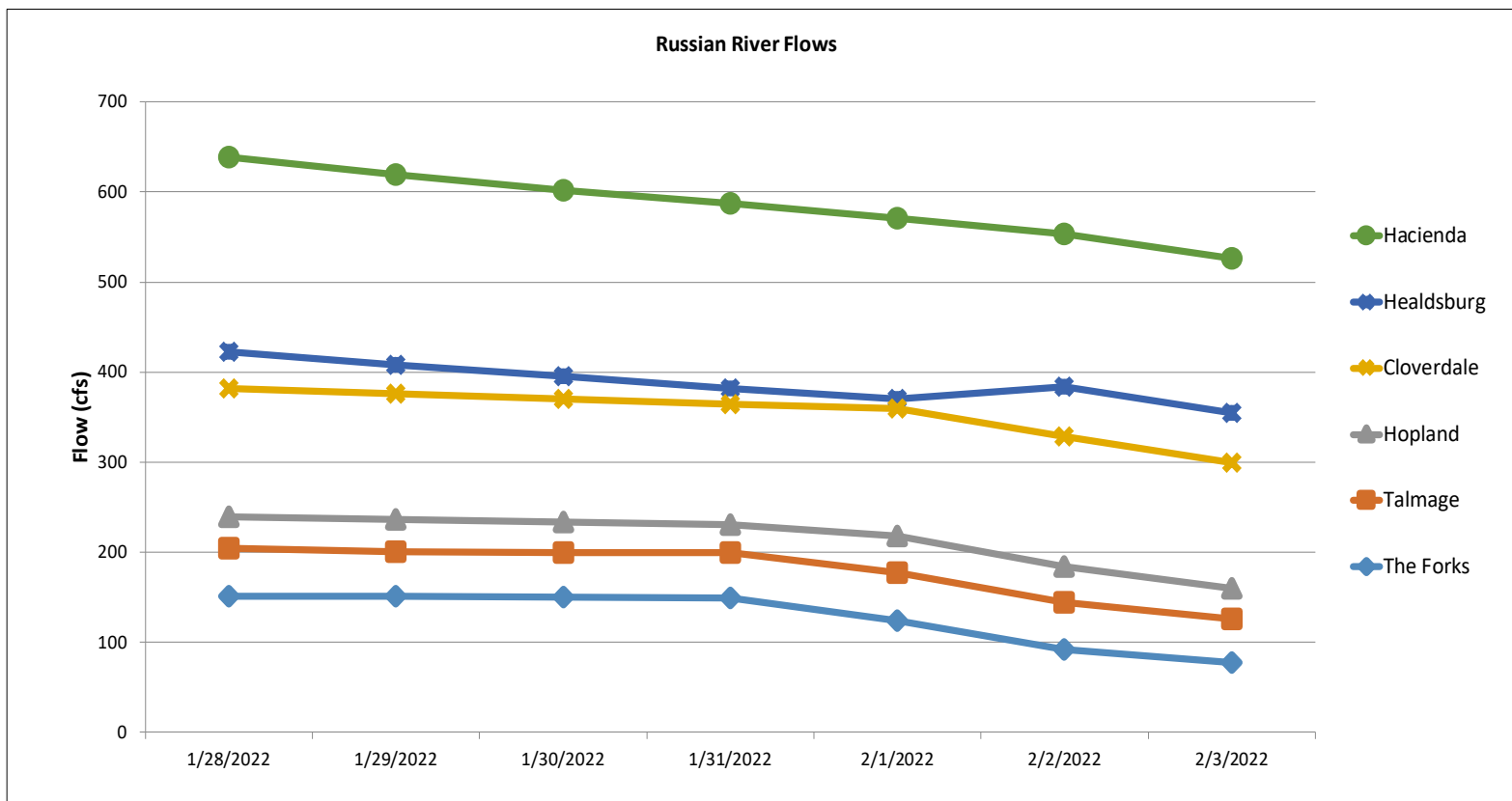
*Inflow calculation based on criteria established in D1610



Russian River Flows (January 28, 2022 - February 3, 2022)

Gage	24-hr Average Flow (cfs)						
	Jan 28, 2022	Jan 29, 2022	Jan 30, 2022	Jan 31, 2022	Feb 1, 2022	Feb 2, 2022	Feb 3, 2022
The Forks*	151	152	150	149	124	92	78
Talmage USGS 11462080	204	201	200	200	177	144	126
Hopland USGS 11462500	239	236	234	231	218	184	160
Cloverdale USGS 11463000	382	376	370	365	360	329	299
Healdsburg USGS 11464000	423	408	395	382	370	384	355
Hacienda USGS 11467000	639	619	602	587	571	553	526

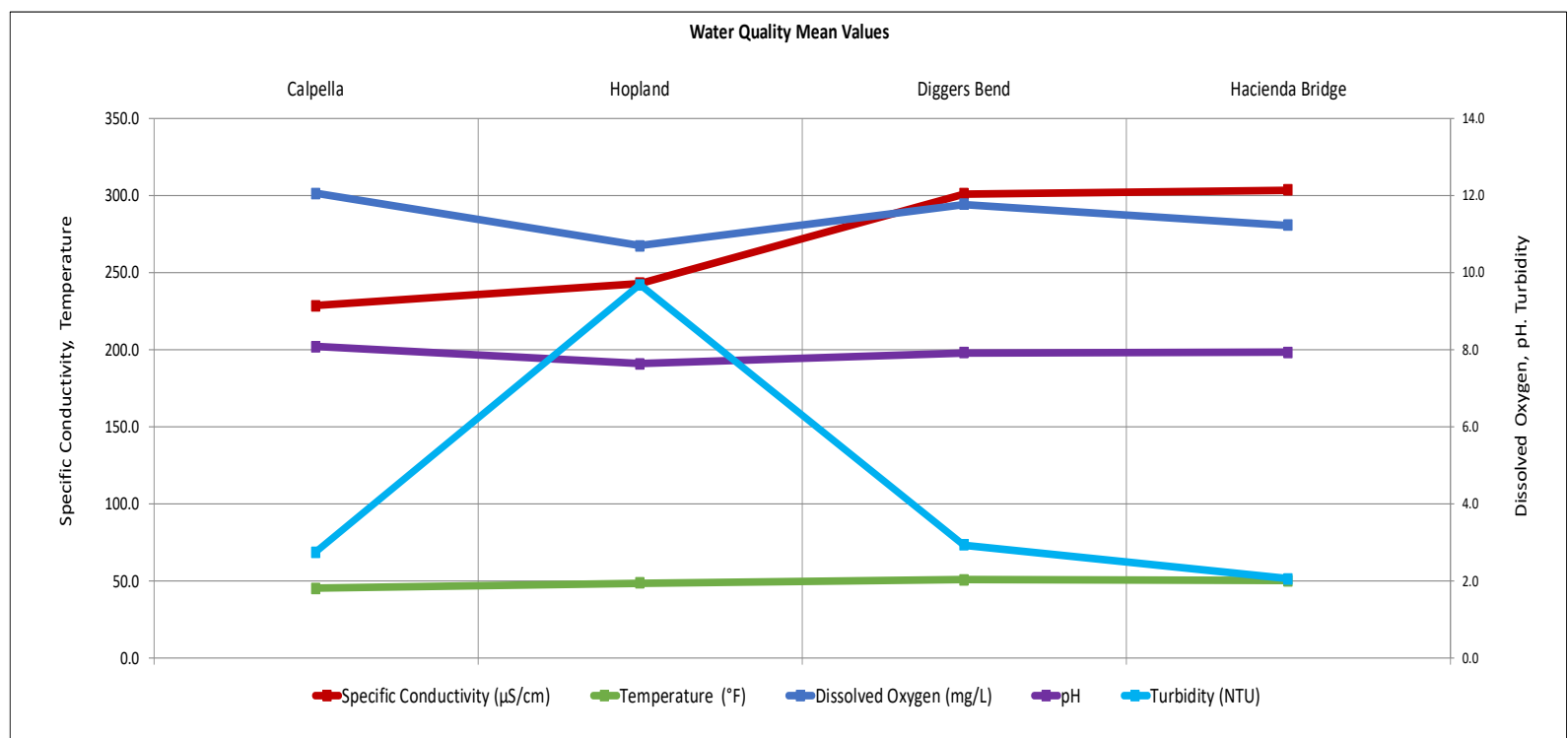
*West Fork (USGS 11461000) + East Fork (Coyote Valley Dam Release)



Russian River Water Quality (January 28, 2022 - February 3, 2022)

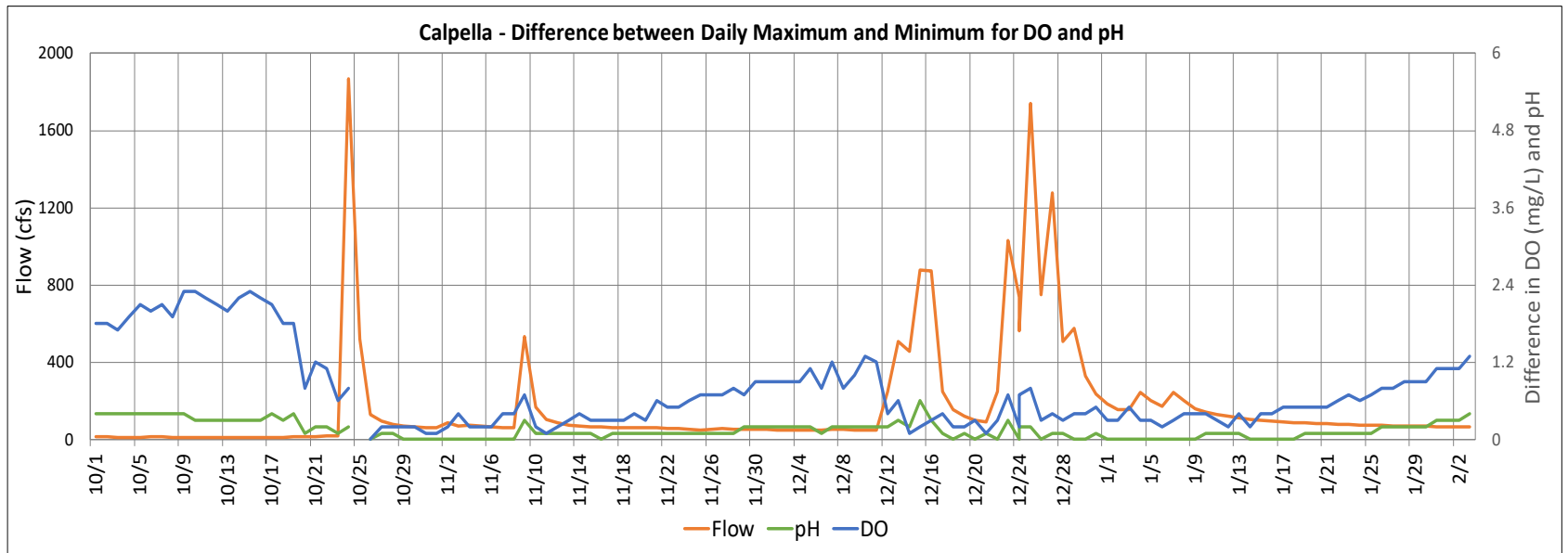
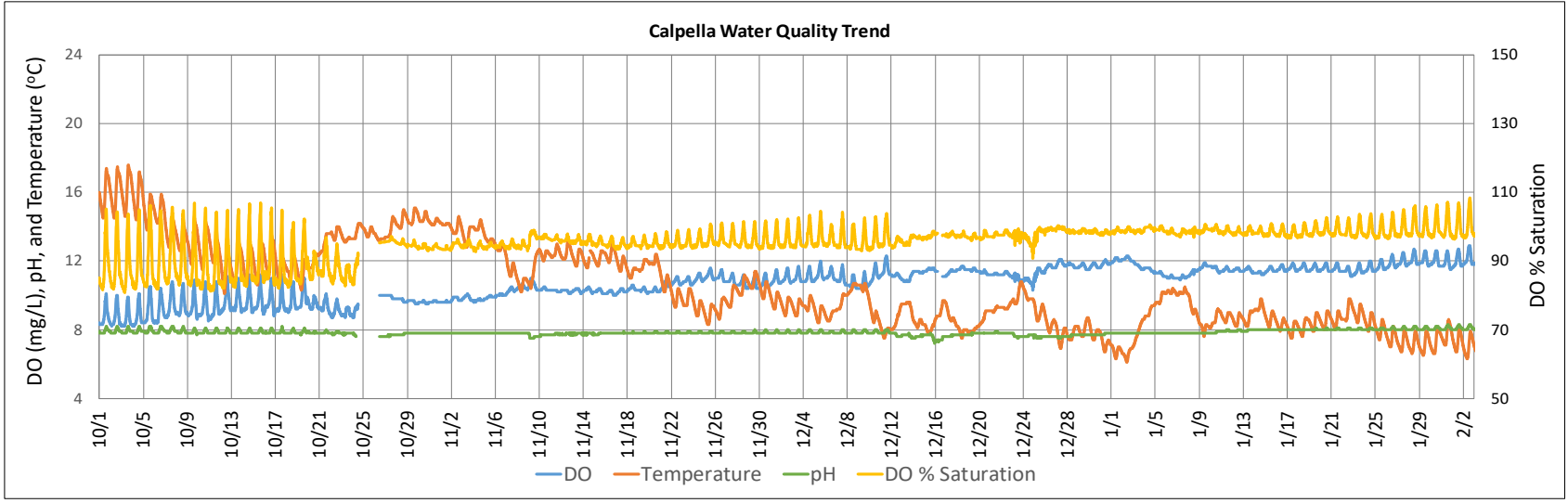
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463200	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	43.3	47.1			49.1		48.6	
	Max	47.5	50.9			52.9		51.4	
	Mean	45.1	48.8			50.9		50.2	
Specific Conductivity (µS/cm)	Min	216.0	238.0			299.0		303.0	
	Max	231.0	261.0			307.0		305.0	
	Mean	228.6	243.2			301.2		303.6	
Dissolved Oxygen (mg/L)	Min	11.5	10.2			10.6		10.3	
	Max	13.1	11.1			13.9		12.7	
	Mean	12.1	10.7			11.8		11.2	
Dissolved Oxygen (% Saturation)	Min	96.4	88.6			93.2		90.4	
	Max	110.1	97.7			127.2		113.8	
	Mean	100.0	93.2			105.6		99.8	
pH	Min	8.0	7.6			7.7		7.8	
	Max	8.4	7.7			8.3		8.2	
	Mean	8.1	7.6			7.9		7.9	
Turbidity (NTU)	Min	2.3	7.2			2.3		1.5	
	Max	3.6	12.6			3.9		3.0	
	Mean	2.8	9.7			2.9		2.1	

*Station operated seasonally



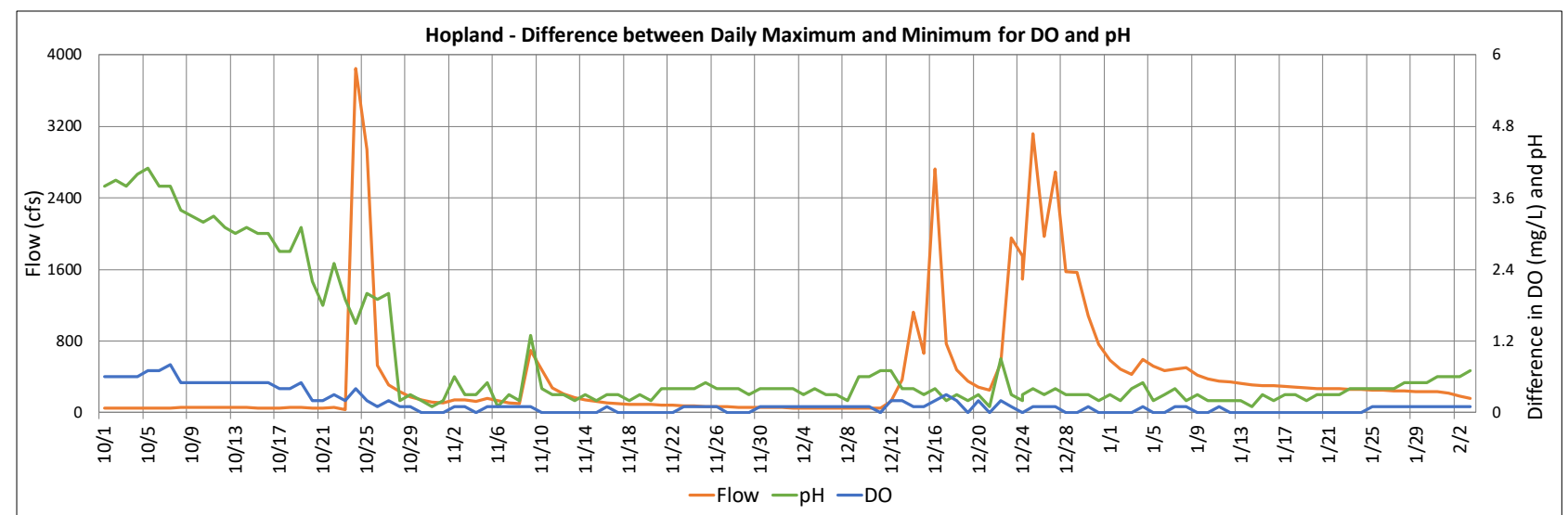
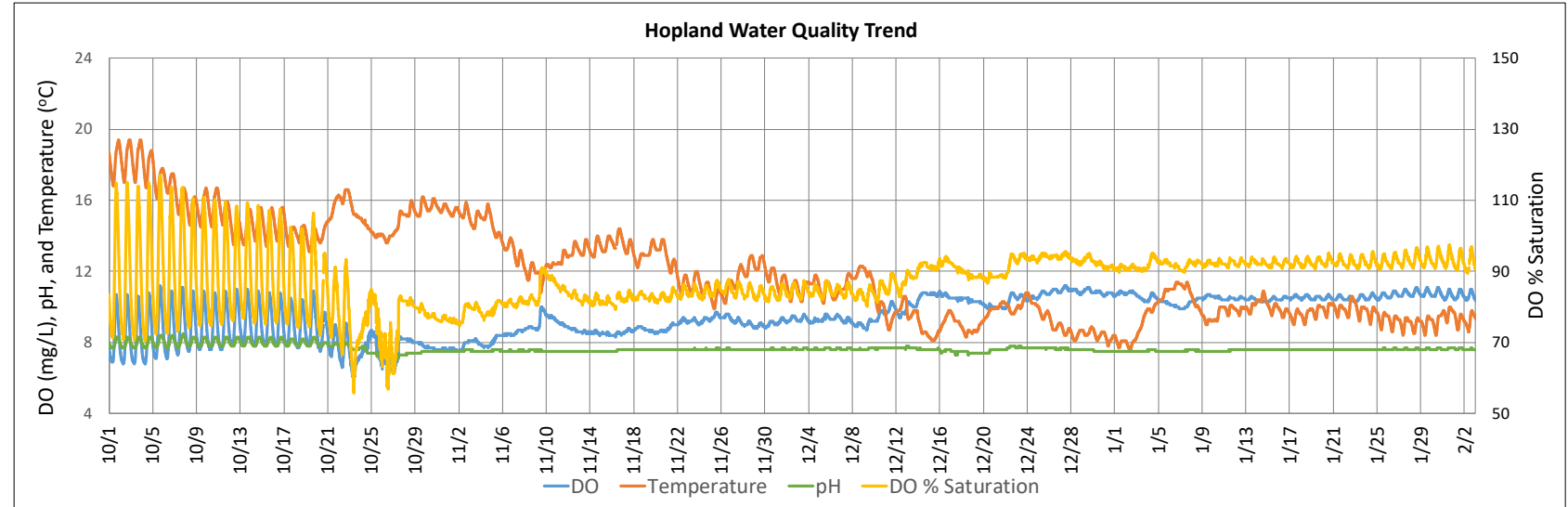
Russian River Water Quality (October 1, 2021 - February 3, 2022)

Calpella (East Fork Russian River)



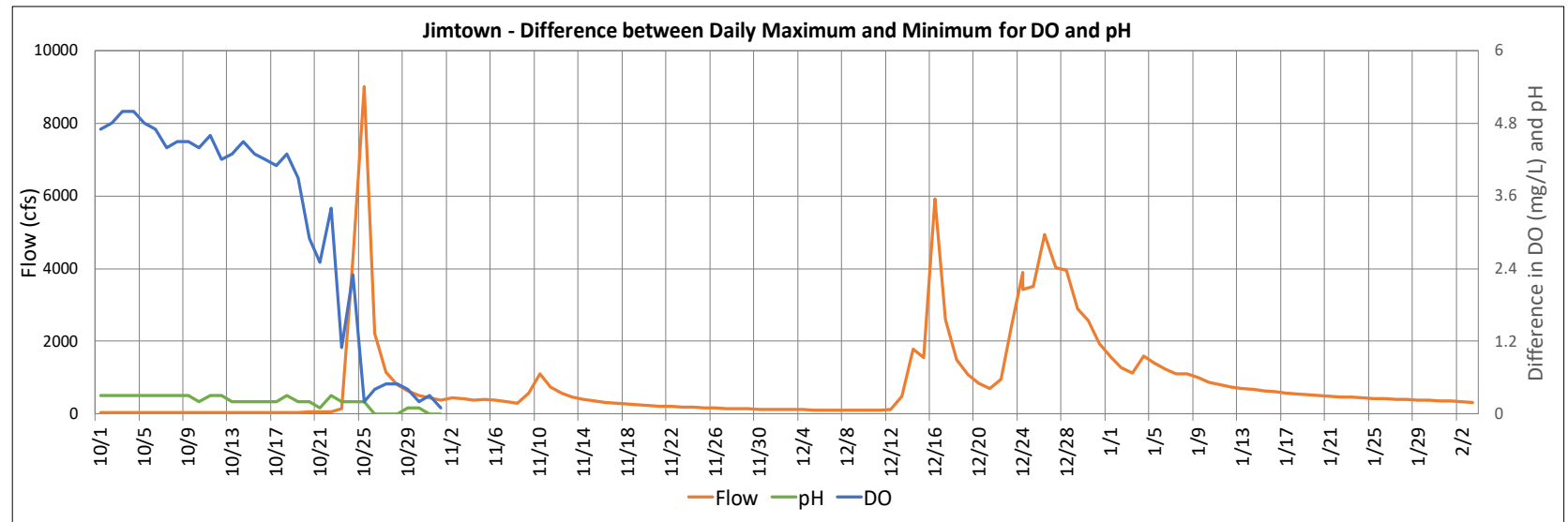
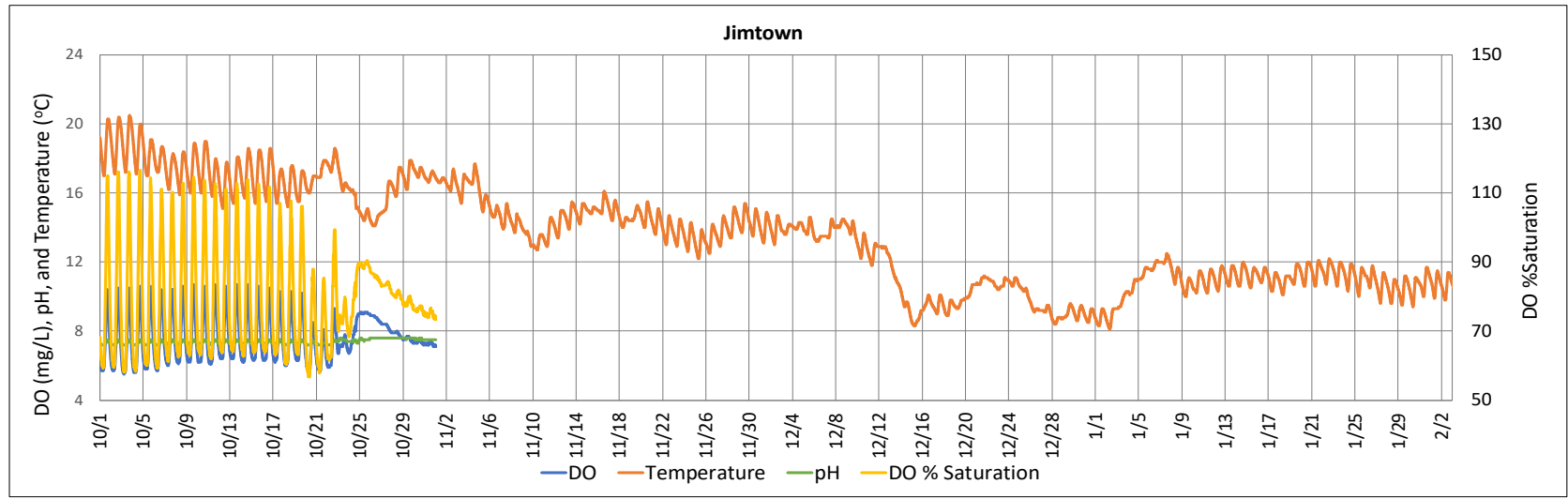
Russian River Water Quality (October 1, 2021 - February 3, 2022)

Hopland



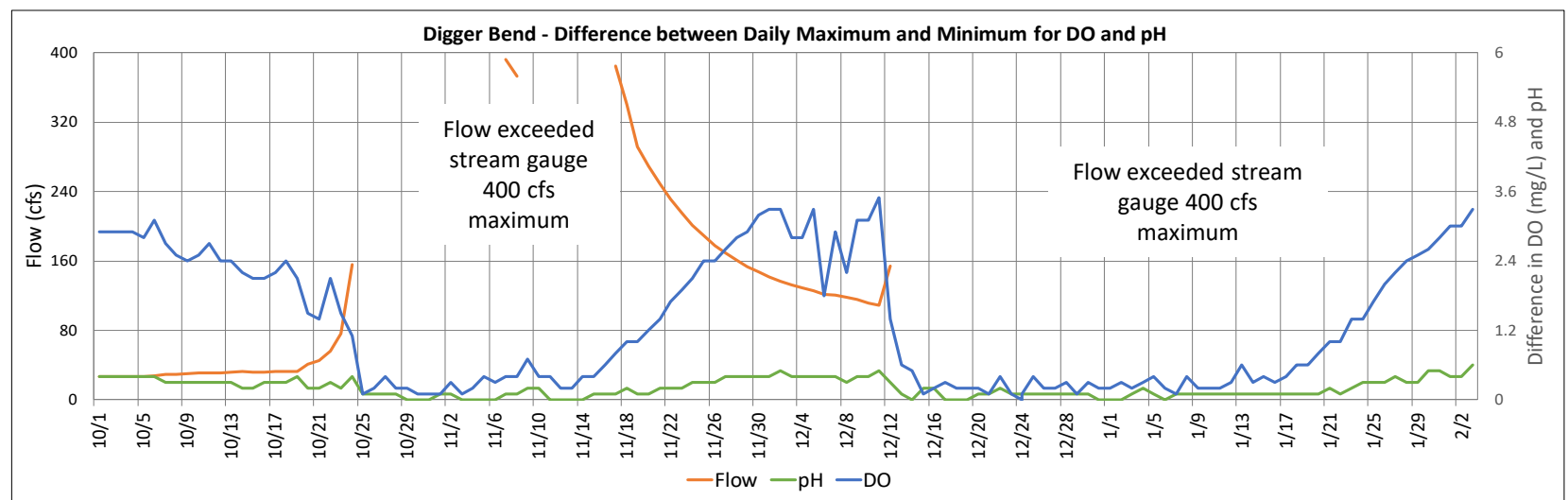
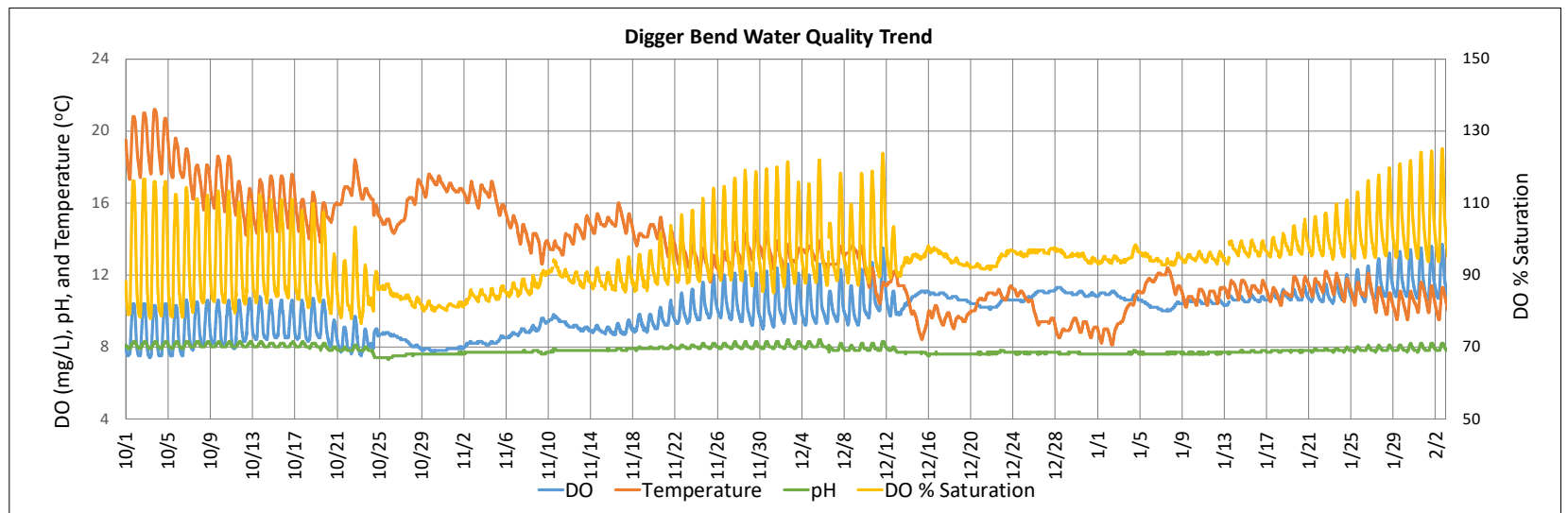
Russian River Water Quality (October 1, 2021 - February 3, 2022)

Jimtown



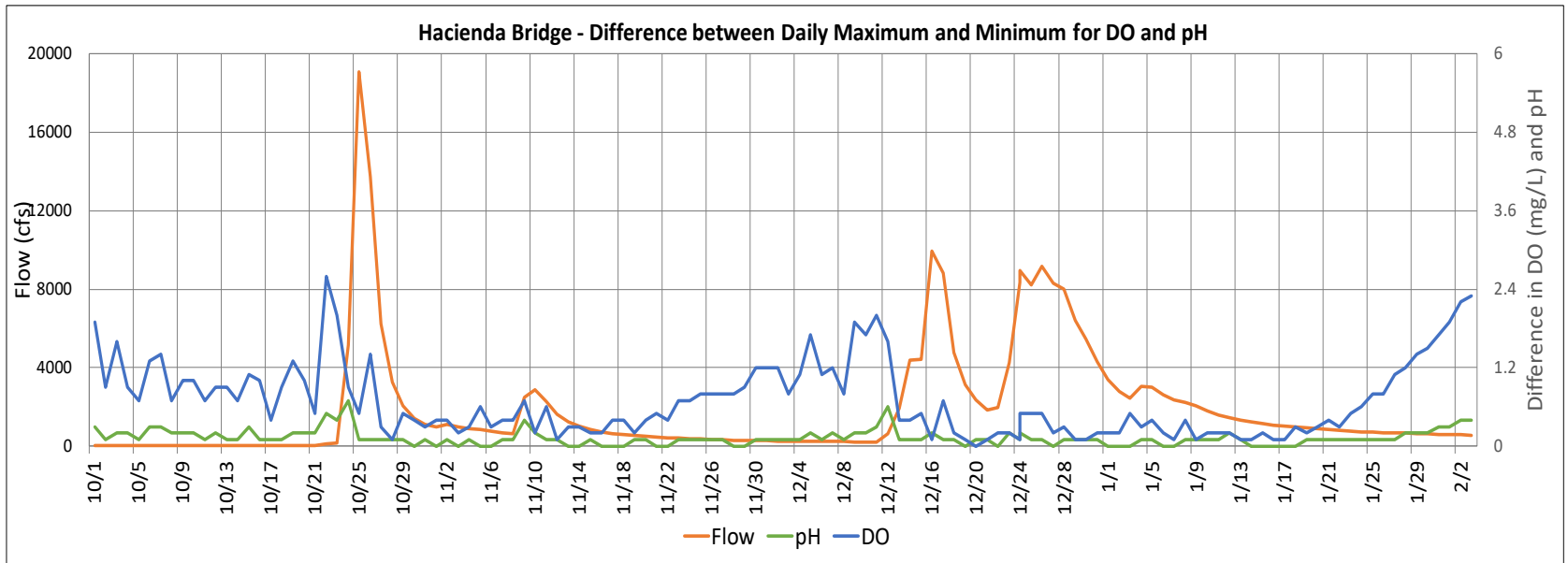
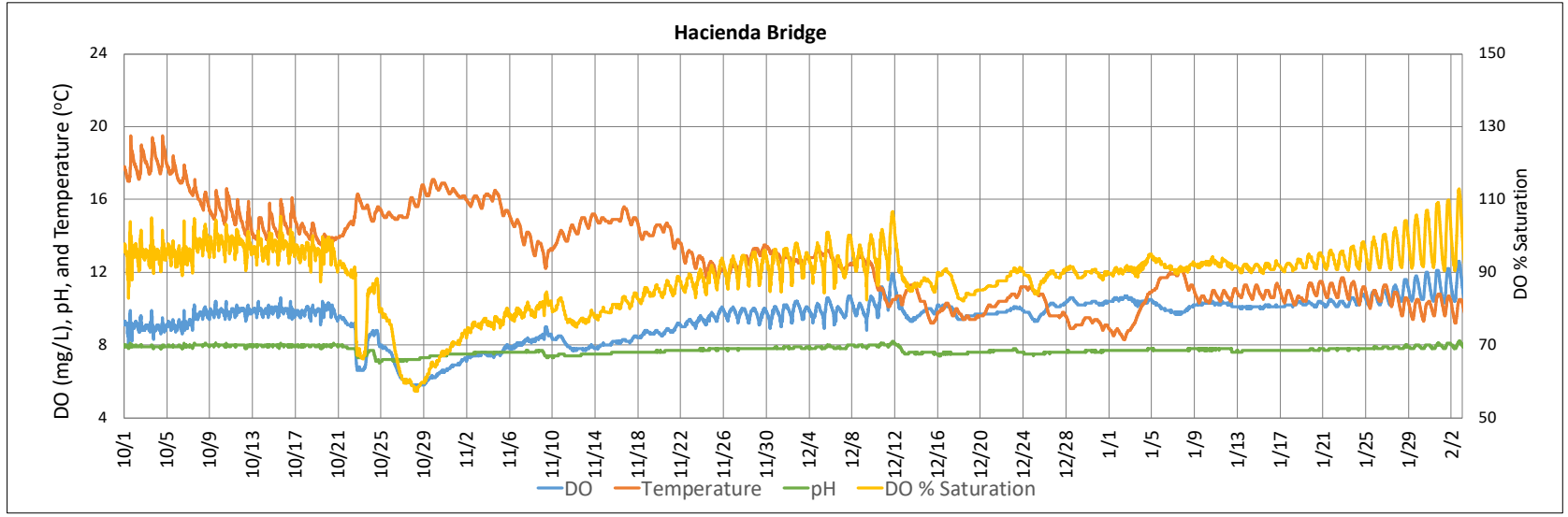
Russian River Water Quality (October 1, 2021 - February 3, 2022)

Digger Bend



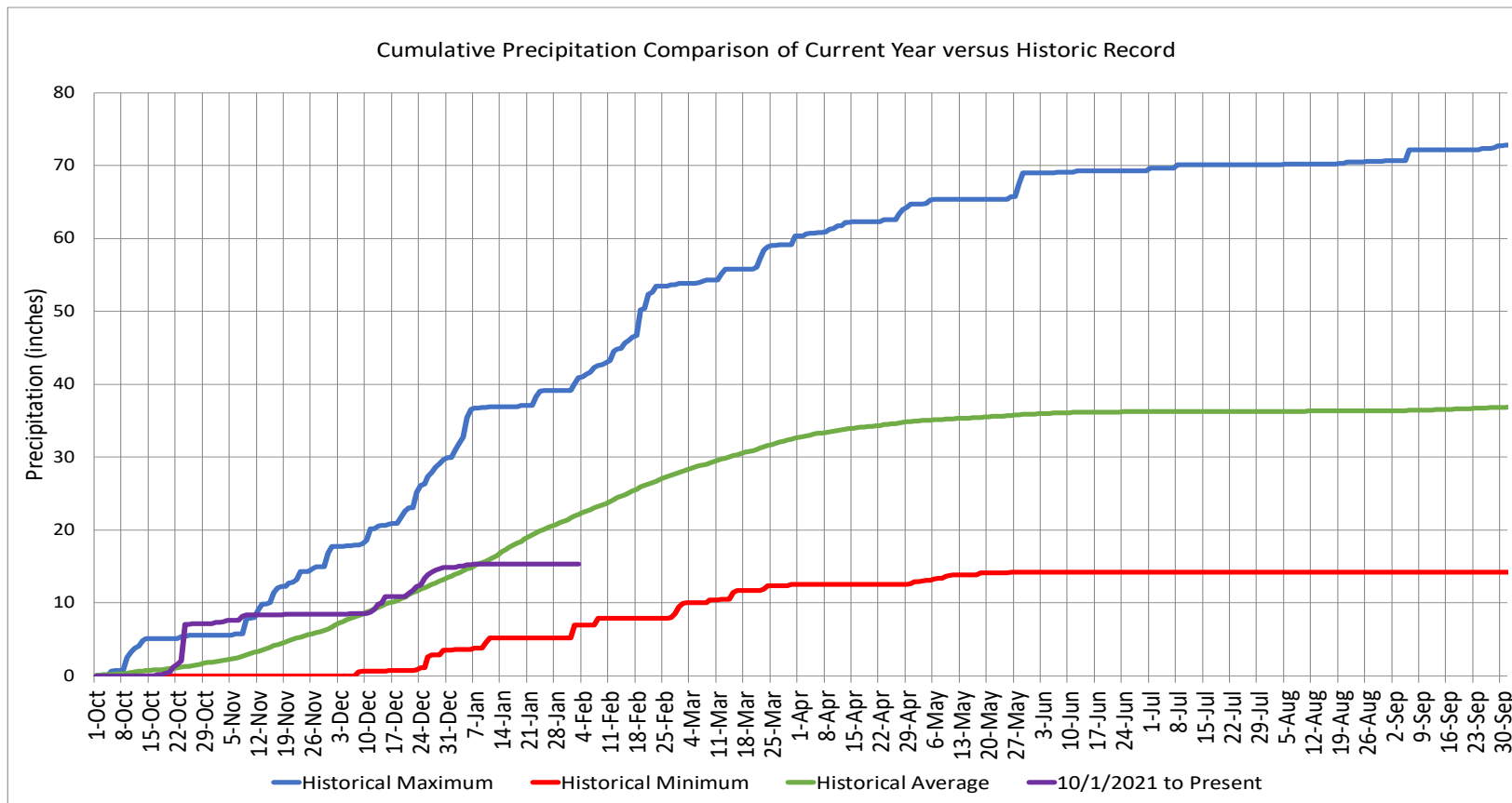
Russian River Water Quality (October 1, 2021 - February 3, 2022)

Hacienda Bridge



Precipitation

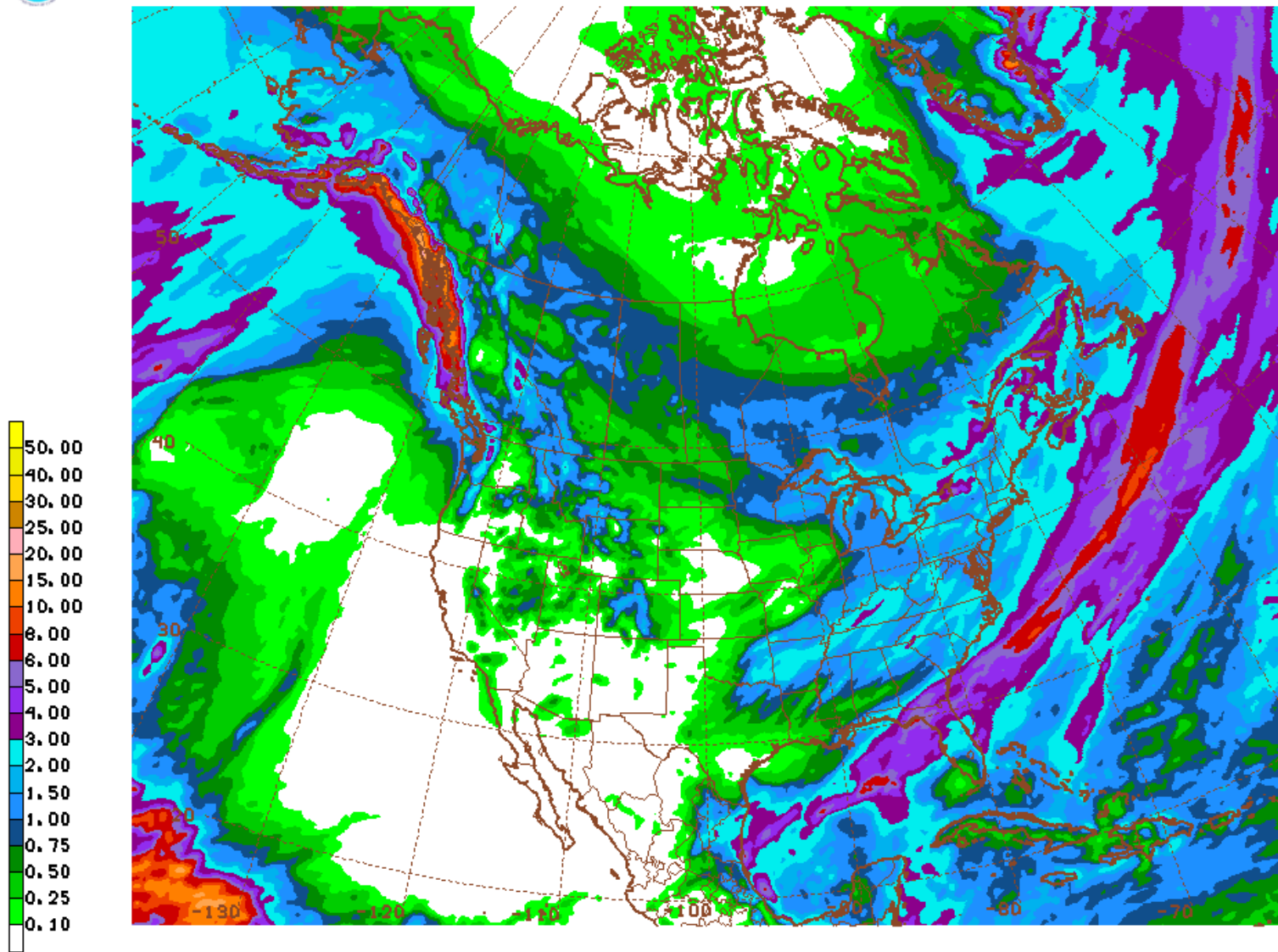
Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2021 - Feb 3, 2022	15.37
Last 7 Days*	0.00



Global Forecast System Model 16-day Cumulative Precipitation Forecast



GFS 02/07/22 12UTC 384HR FCST VALID WED 02/23/22 12UTC NOAA/NWS/NCEP



GFS WED 220223/1200V384 384HR ACCUMULATED PRECIP (IN)

Date Range
Feb 7 - Feb 23, 2022

Forecasted Cumulative (inches)
0.0