



Sonoma Water

**State Water Resources Control Board
 Temporary Urgency Change Order (12/11/2021)
 Russian River Hydrologic Report
 January 21, 2022 - January 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).

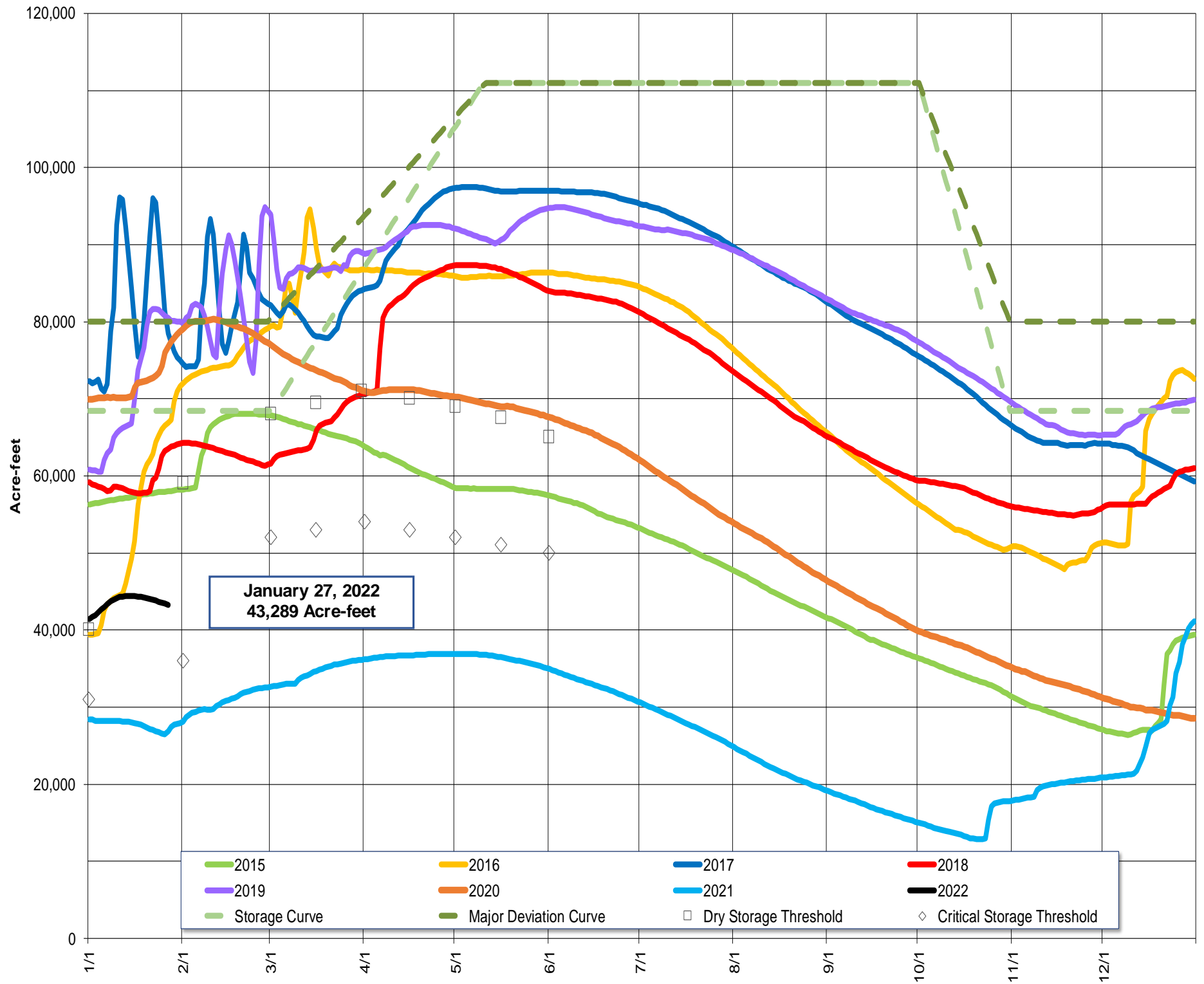
Instream Flow Requirements as of January 27, 2022

Basis	Reach	Instantaneous (cfs)	5-day Average (cfs)
Modified Per Order: Normal Condition	Upper Russian River	150	-
Modified Per Order: Normal Condition	Dry Creek	75	-
Modified Per Order: Normal Condition	Lower Russian River	125	-

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



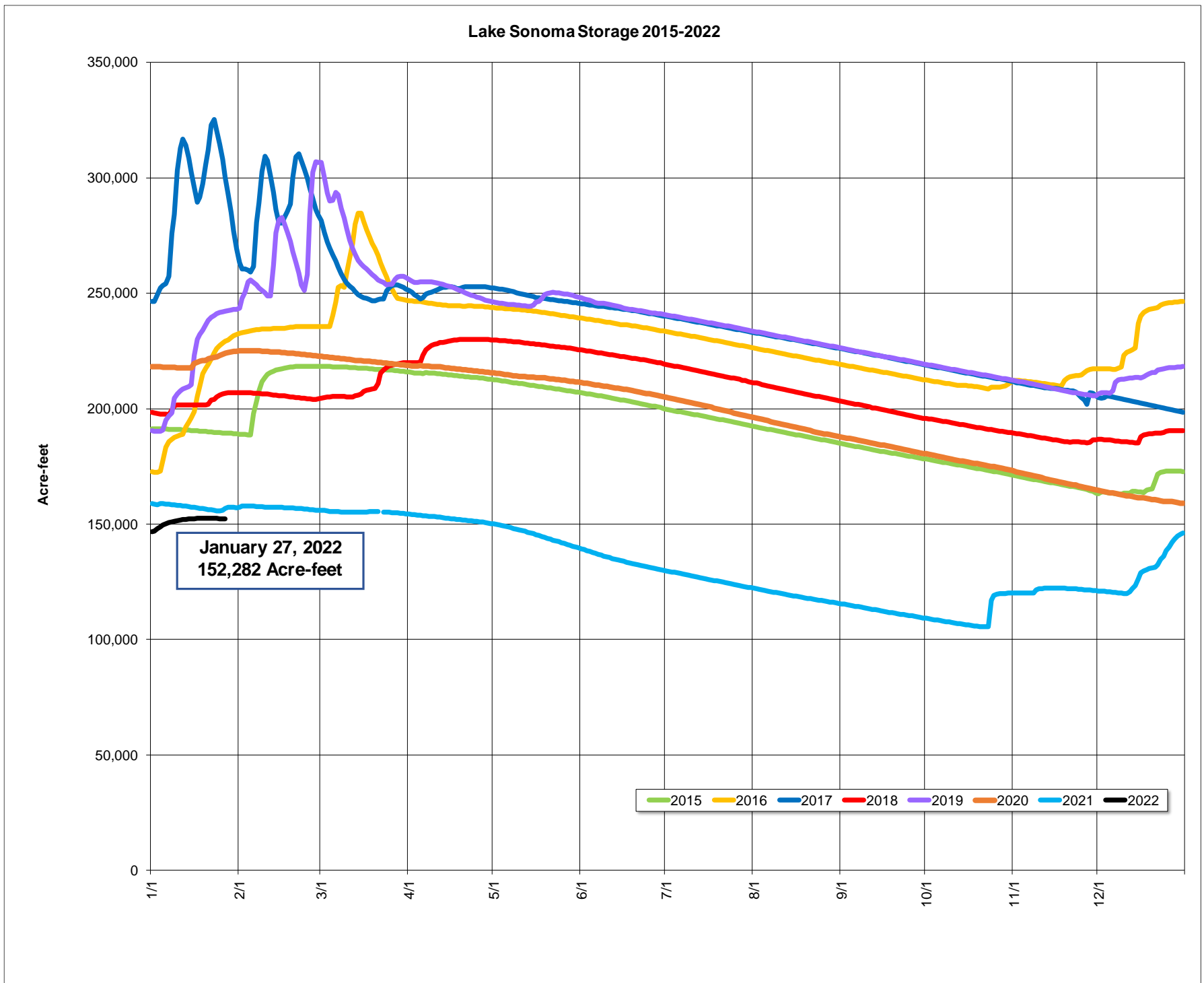
**January 27, 2022
 43,289 Acre-feet**

Storage (acre-feet)	January 27, 2022	43,289	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	4,202	140
	Last 7 days	-713	-102
Daily Inflow (cfs)	Last 7 days	Min	62
		Max	97
		Mean	76
Release (cfs)	Last 7 days	Min	124
		Max	135
		Mean	131

Lake Sonoma



Nathan Baskett, March 3 , 2011



Storage (acre-feet)	January 27, 2022	152,282	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	13,397	447
	Last 7 days	-192	-27
Daily Inflow (cfs)	Last 7 days	Min	48
		Max	77
		Mean	65
Release (cfs)	Last 7 days	Min	73
		Max	76
		Mean	75

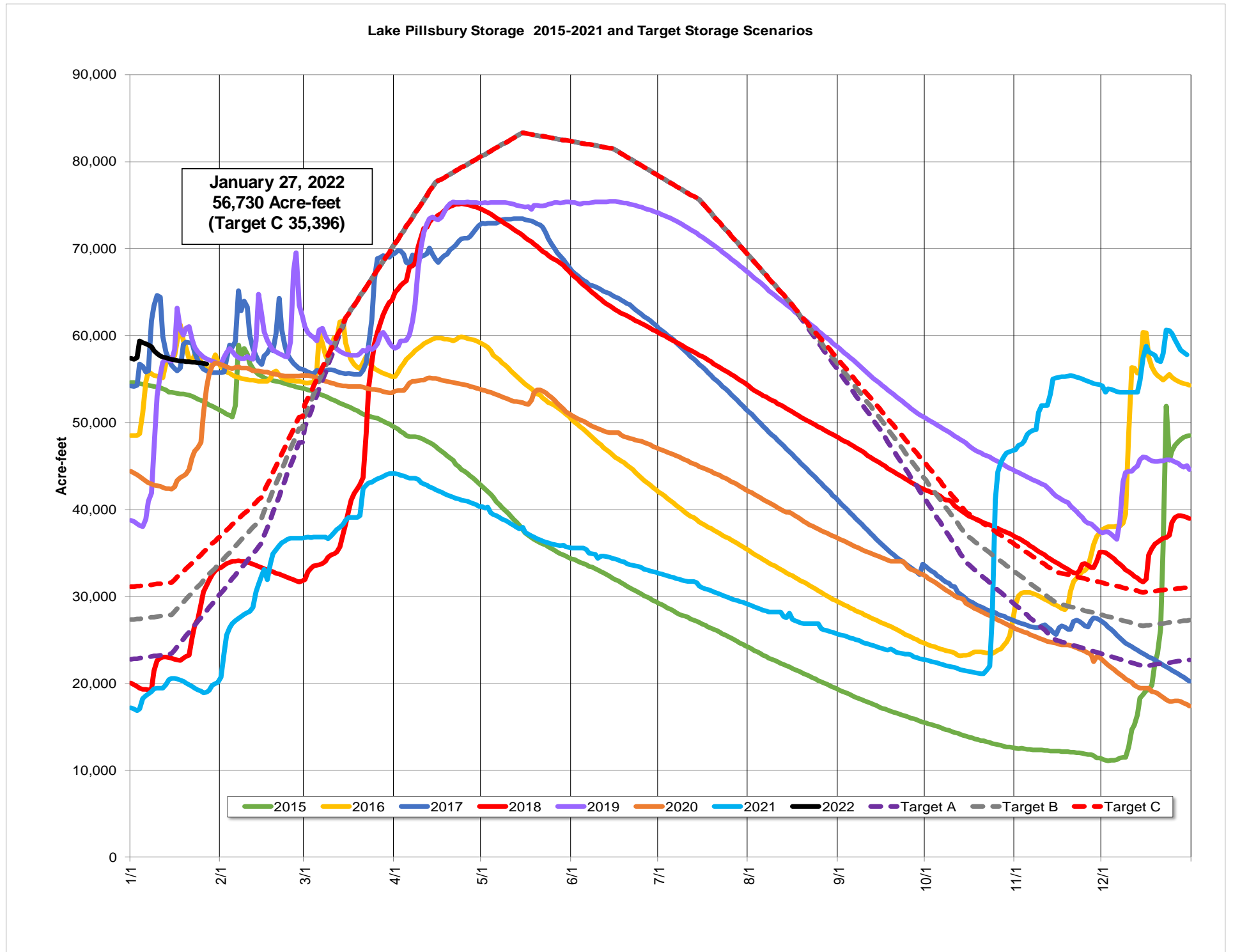
Potter Valley Project

PVP Diversion (cfs)	January 27, 2022	46
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Lake Pillsbury

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2021 - January 27, 2022	169,505	1436
	Last 7 days	4,713	673

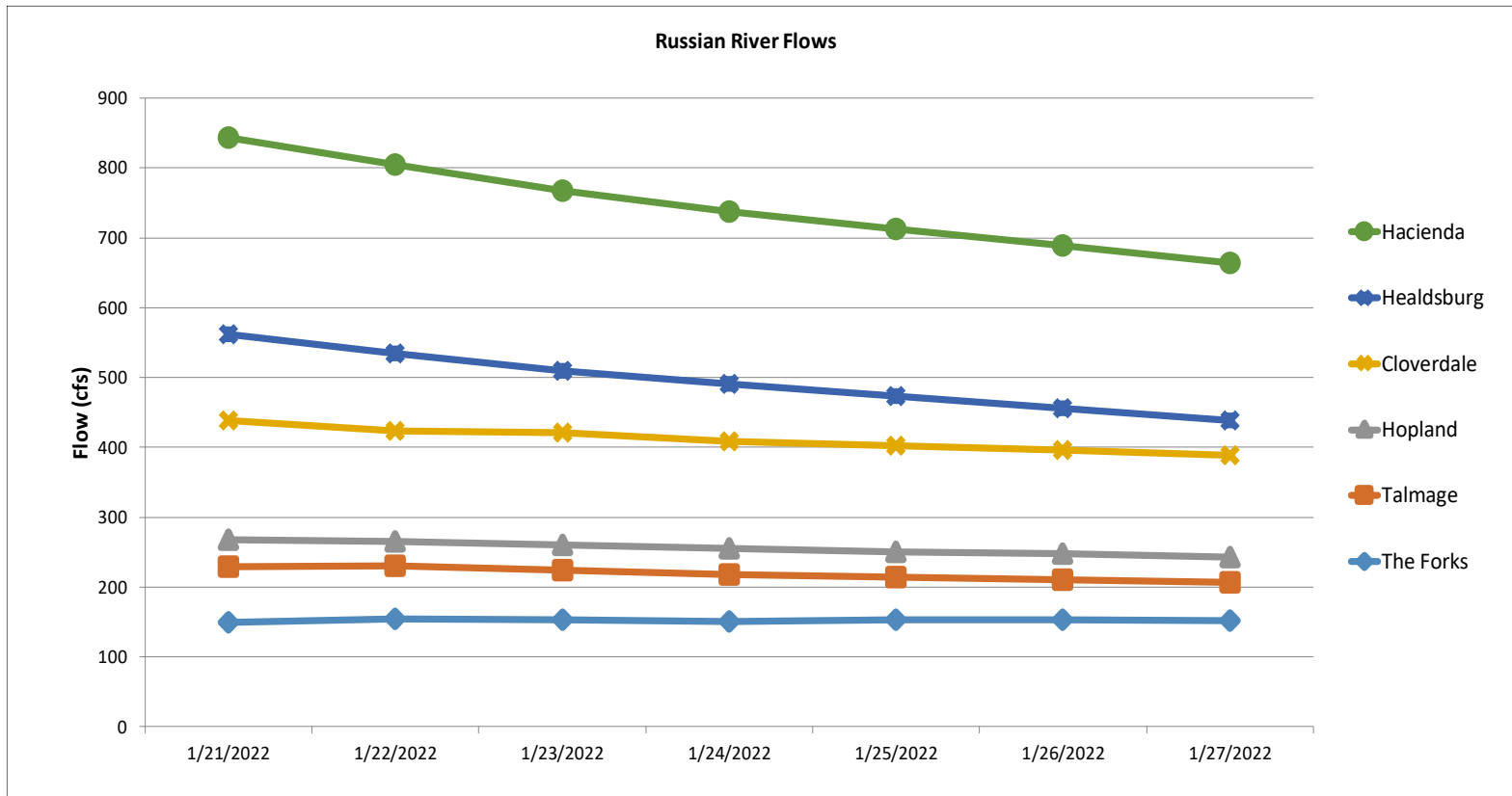
*Inflow calculation based on criteria established in D1610



Russian River Flows (January 21, 2022 - January 27, 2022)

Gage	24-hr Average Flow (cfs)						
	Jan 21, 2022	Jan 22, 2022	Jan 23, 2022	Jan 24, 2022	Jan 25, 2022	Jan 26, 2022	Jan 27, 2022
The Forks*	150	154	153	151	153	153	152
Talmage USGS 11462080	229	230	224	218	214	210	207
Hopland USGS 11462500	268	265	261	255	251	248	243
Cloverdale USGS 11463000	438	424	421	409	403	396	388
Healdsburg USGS 11464000	562	534	509	491	473	456	439
Hacienda USGS 11467000	843	805	767	738	713	689	664

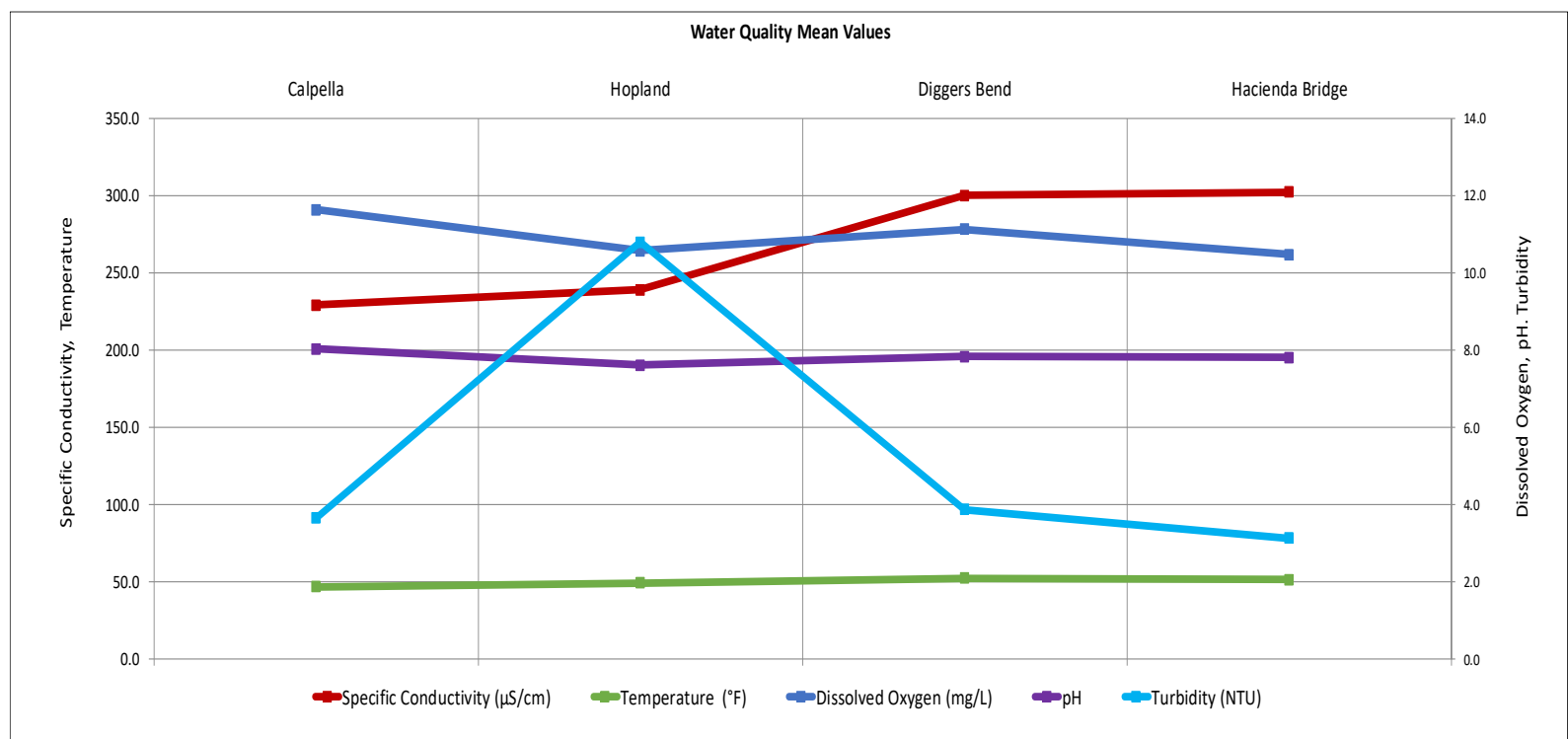
*West Fork (USGS 11461000) + East Fork (Coyote Valley Dam Release)



Russian River Water Quality (January 21, 2022 - January 27, 2022)

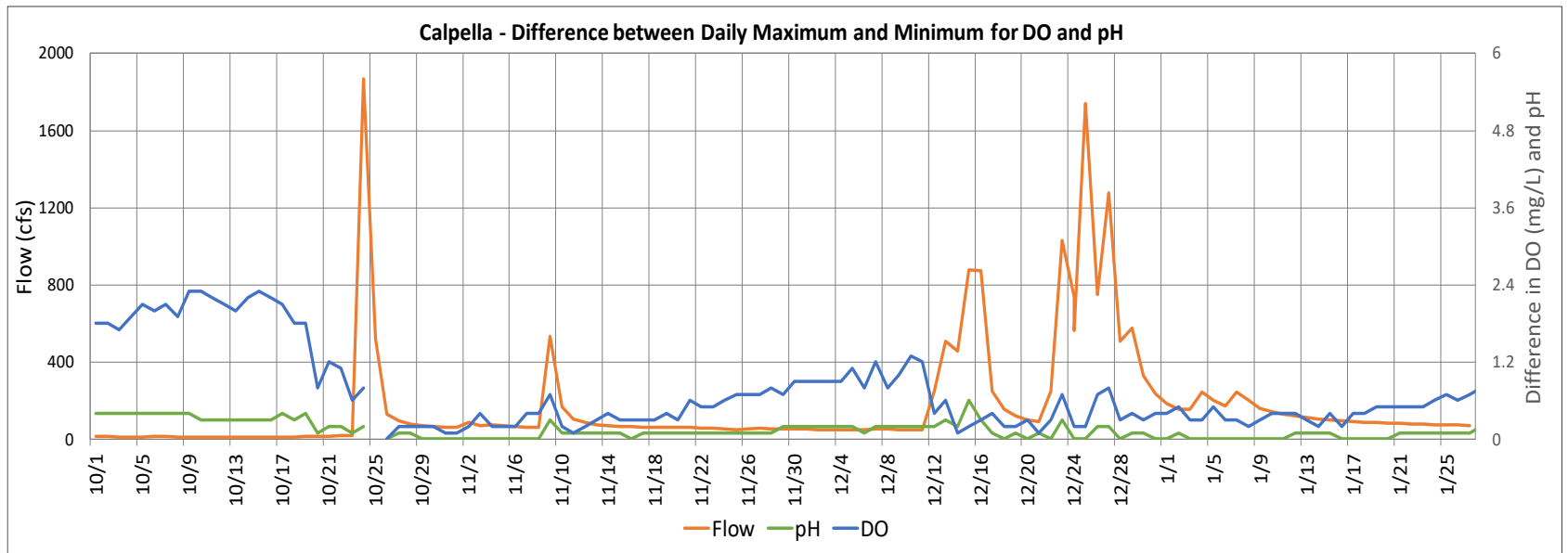
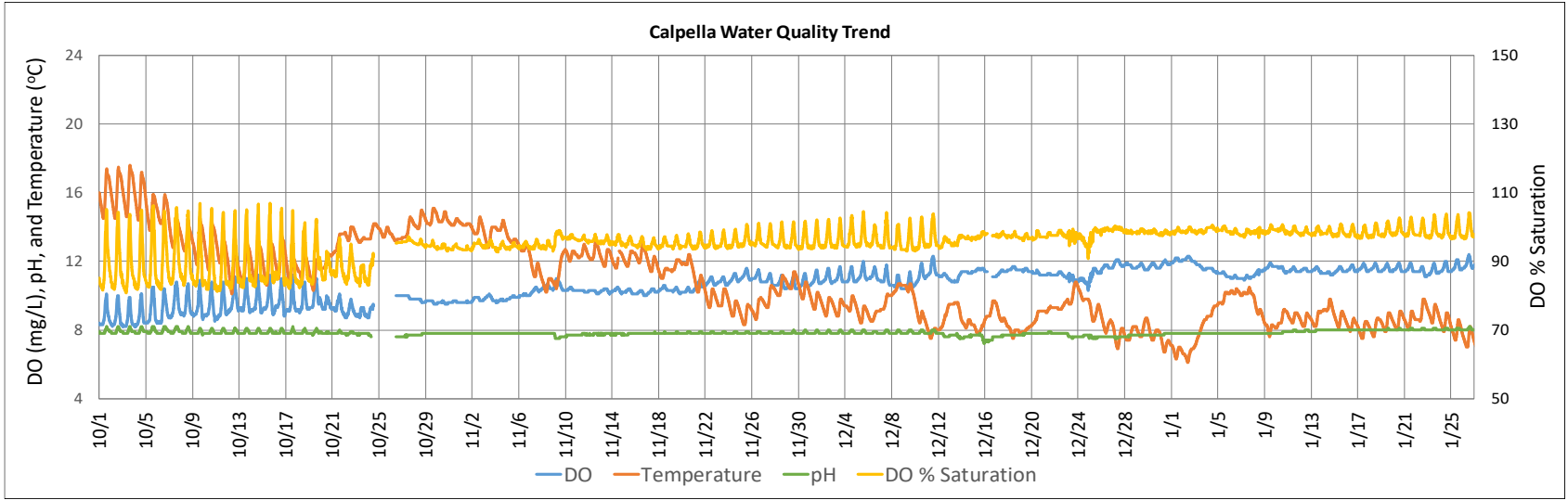
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463200	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	44.1	47.1			49.8		50.0	
	Max	49.6	51.1			54.0		53.1	
	Mean	46.9	49.2			52.2		51.6	
Specific Conductivity (µS/cm)	Min	225.0	237.0			298.0		299.0	
	Max	232.0	245.0			303.0		306.0	
	Mean	229.2	239.0			300.3		302.3	
Dissolved Oxygen (mg/L)	Min	11.1	10.3			10.4		10.1	
	Max	12.5	11.0			12.9		11.3	
	Mean	11.6	10.6			11.1		10.5	
Dissolved Oxygen (% Saturation)	Min	96.5	90.6			94.3		90.5	
	Max	105.0	96.1			117.8		102.2	
	Mean	98.9	92.8			101.5		94.7	
pH	Min	8.0	7.6			7.7		7.7	
	Max	8.2	7.7			8.1		7.9	
	Mean	8.0	7.6			7.8		7.8	
Turbidity (NTU)	Min	3.0	9.0			2.6		2.0	
	Max	4.6	14.3			6.3		4.6	
	Mean	3.7	10.8			3.9		3.1	

*Station operated seasonally



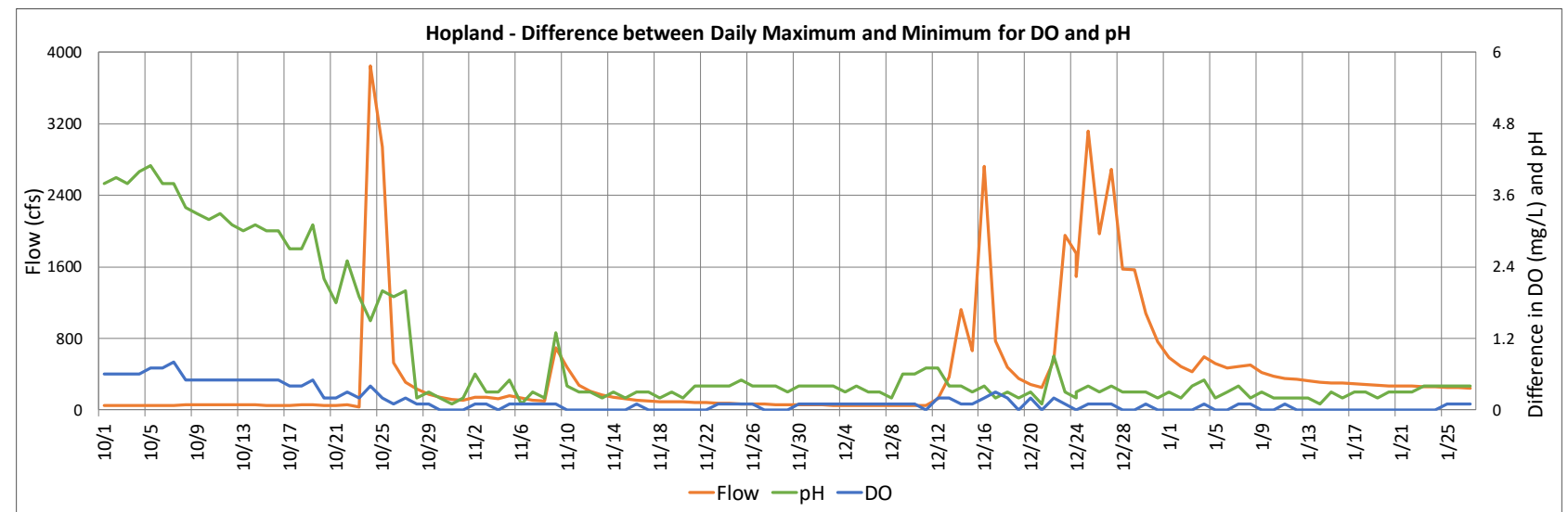
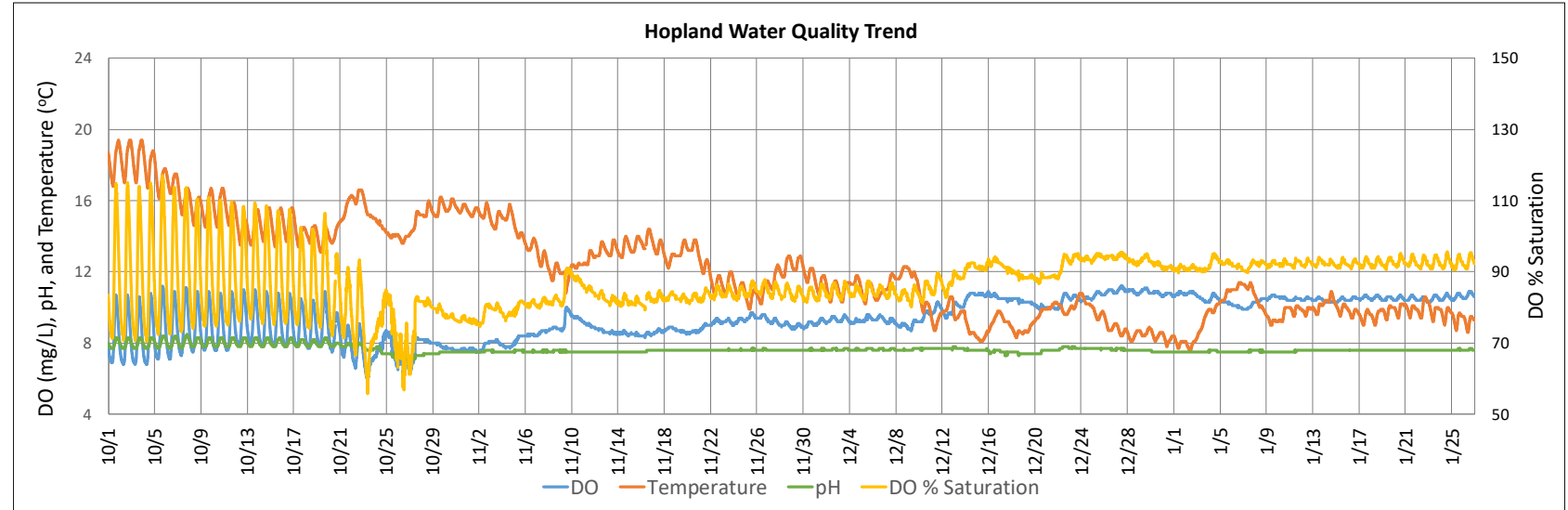
Russian River Water Quality (October 1, 2021 - January 27, 2022)

Calpella (East Fork Russian River)



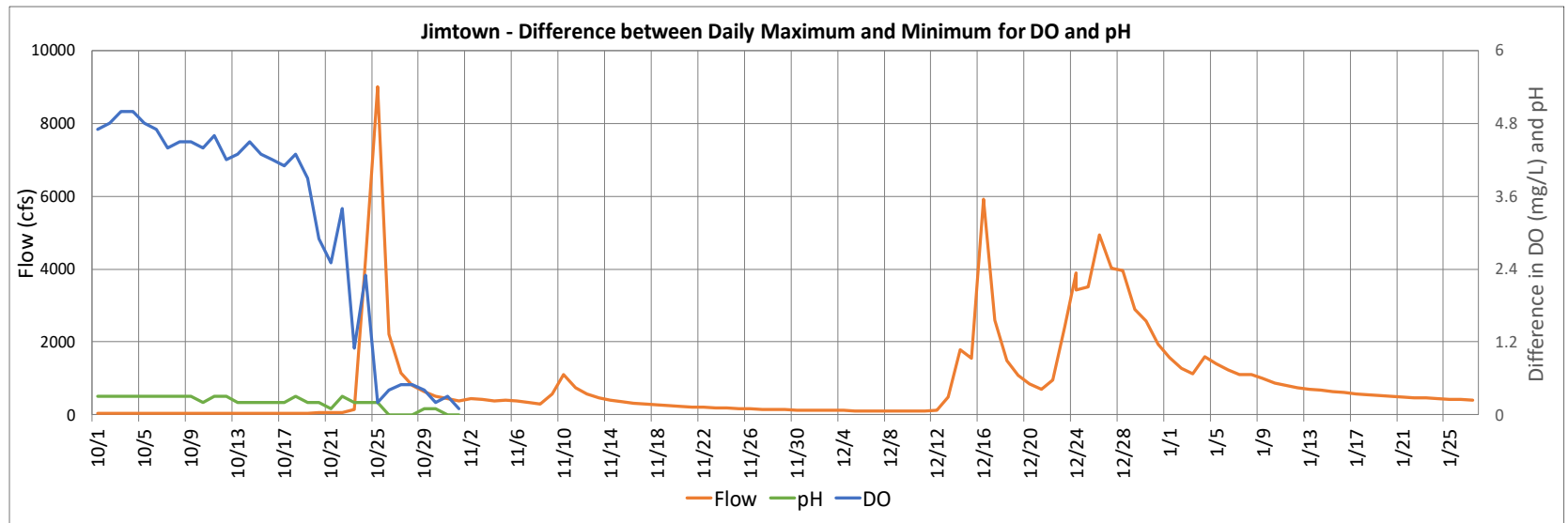
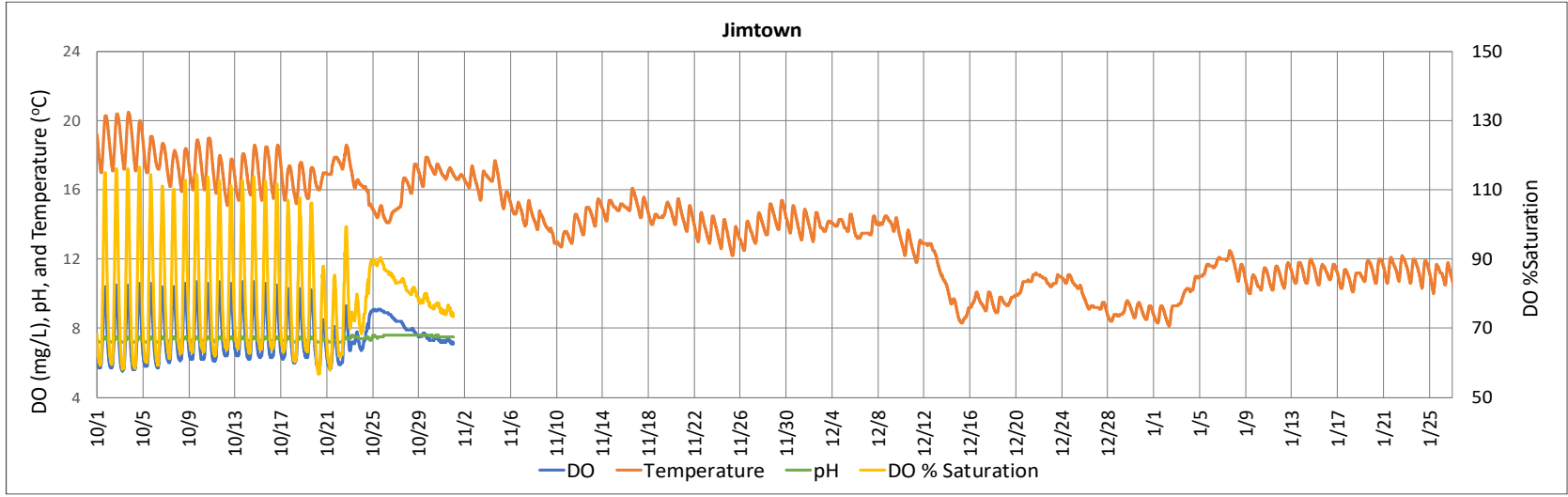
Russian River Water Quality (October 1, 2021 - January 27, 2022)

Hopland



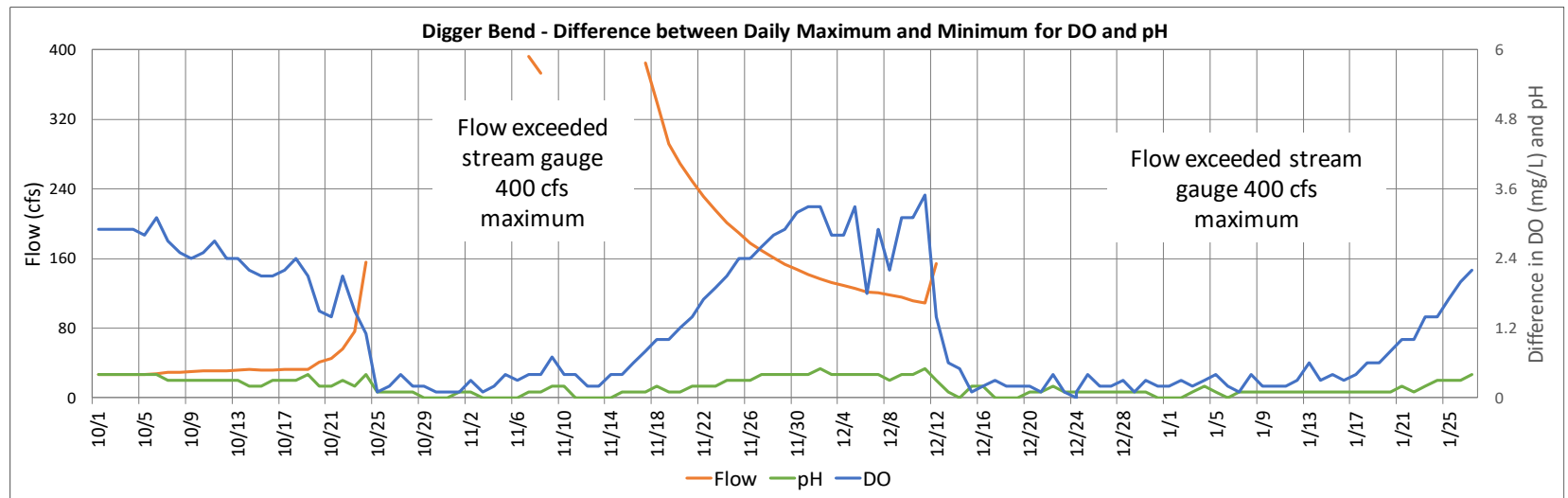
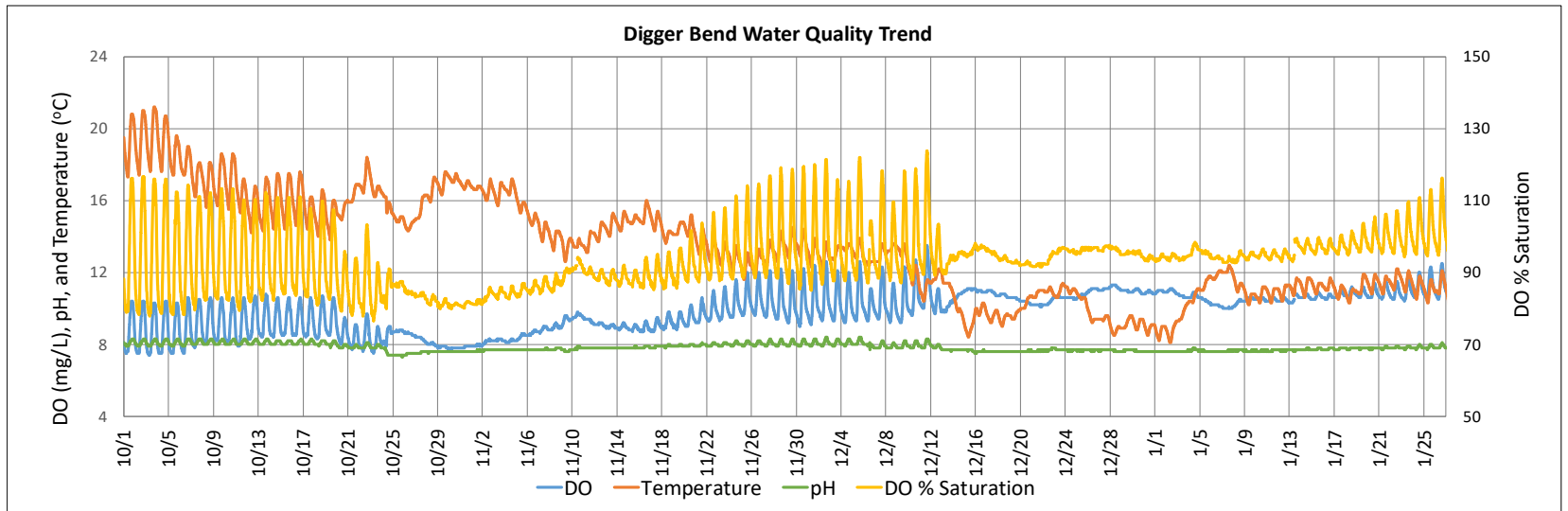
Russian River Water Quality (October 1, 2021 - January 27, 2022)

Jimtown



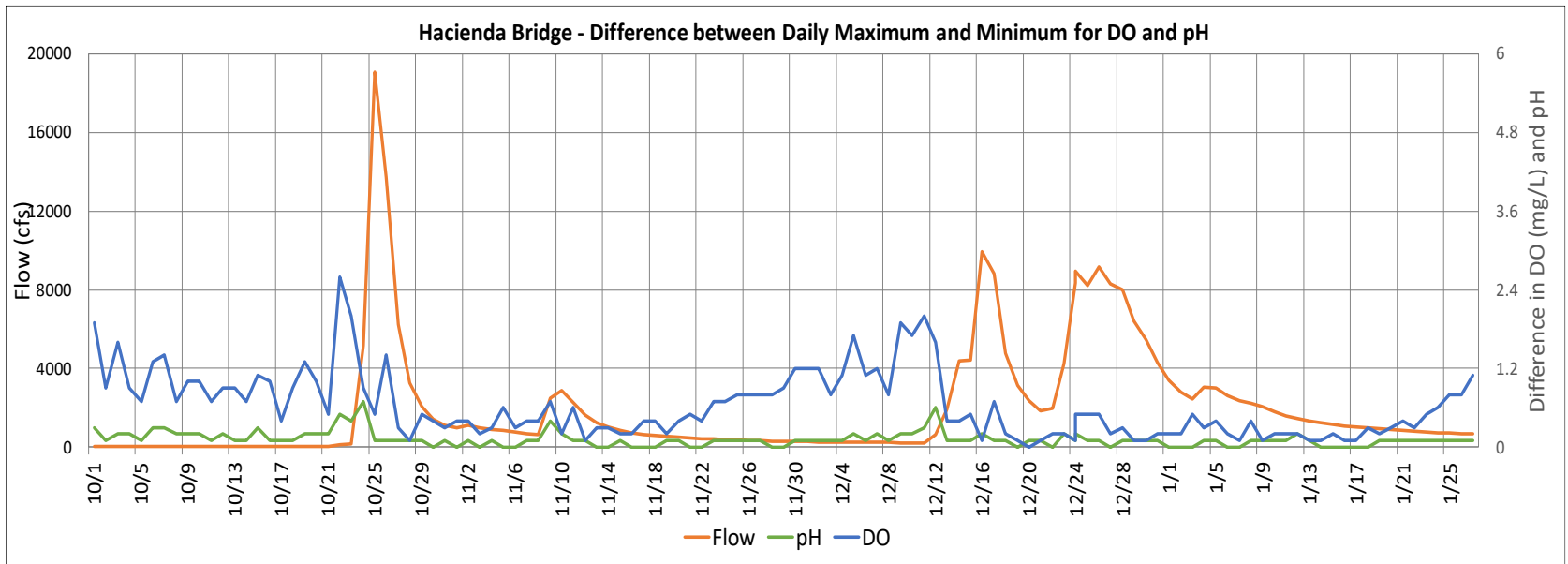
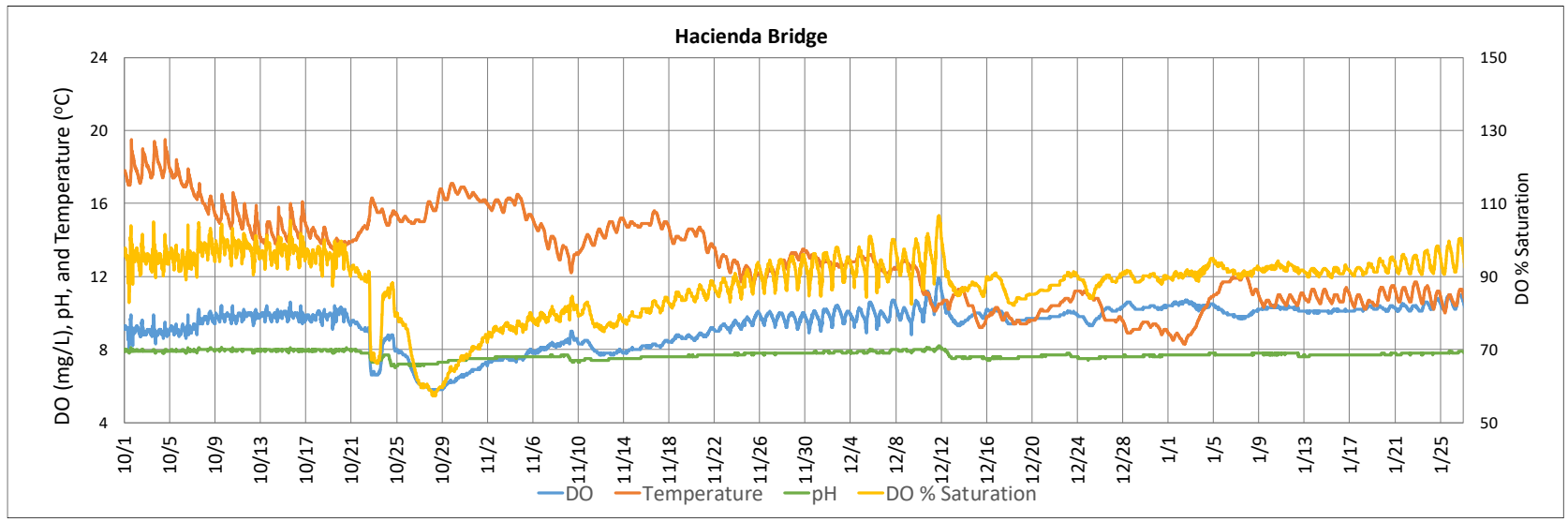
Russian River Water Quality (October 1, 2021 - January 27, 2022)

Digger Bend



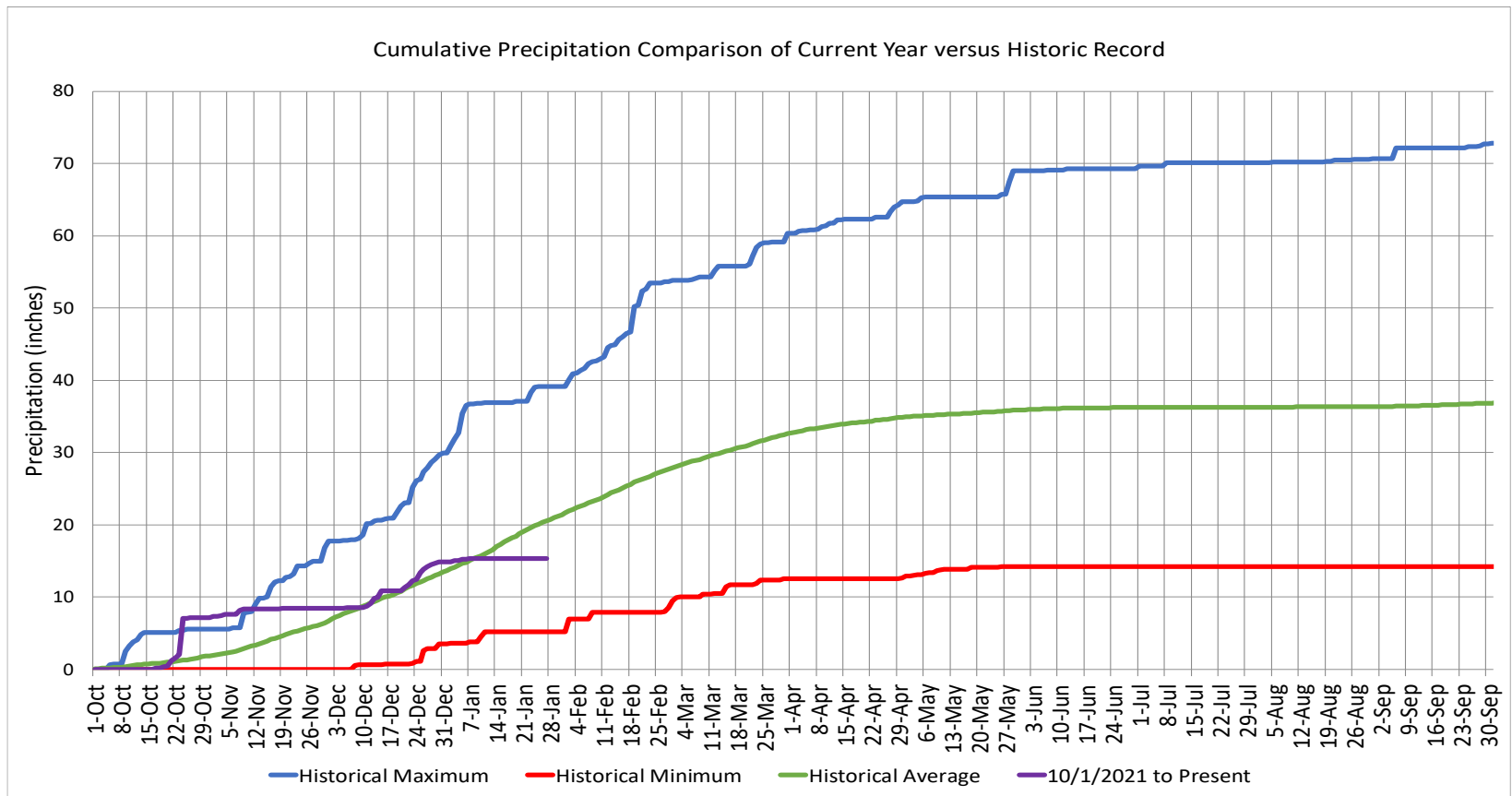
Russian River Water Quality (October 1, 2021 - January 27, 2022)

Hacienda Bridge



Precipitation

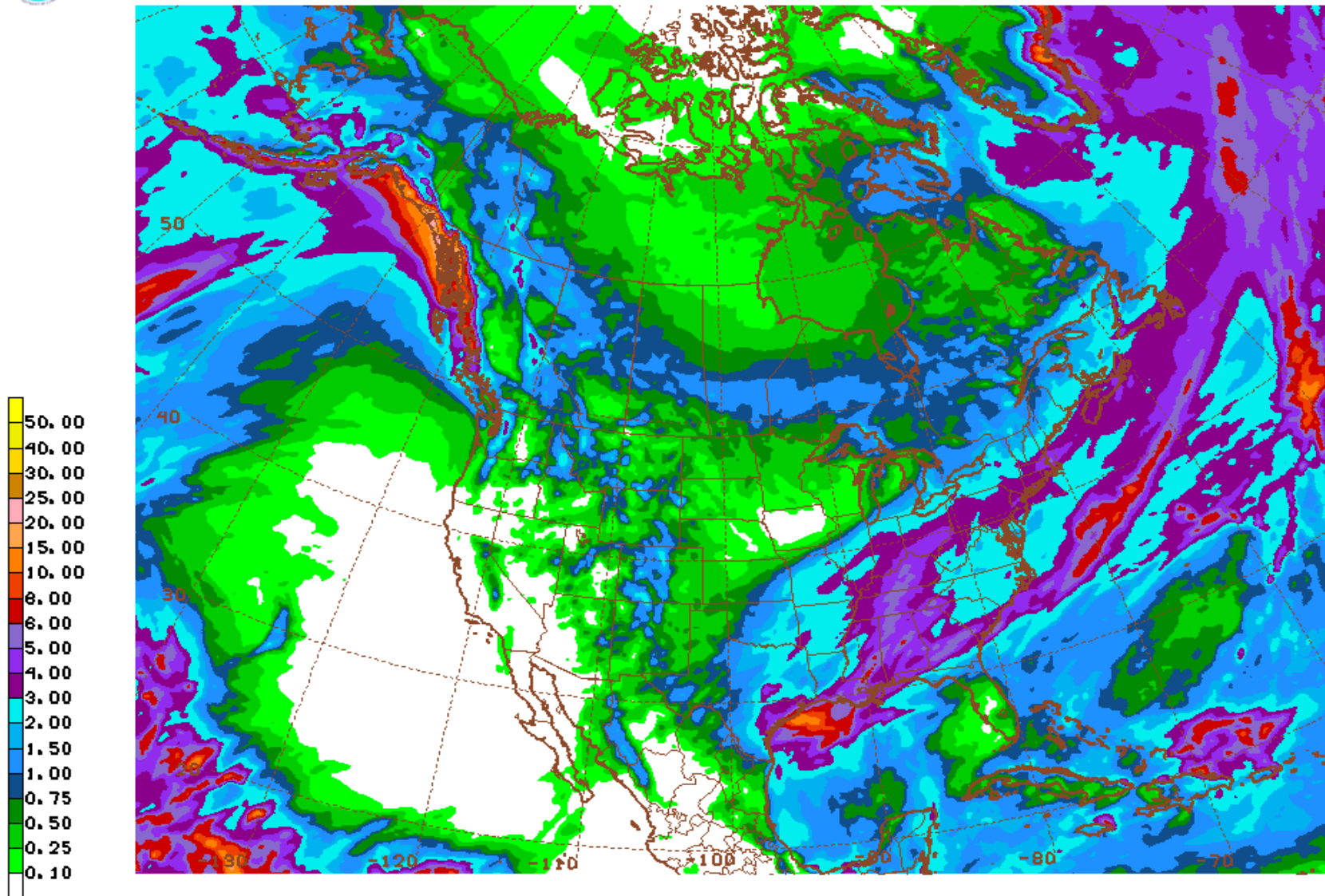
Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2021 - Jan 27, 2022	15.37
Last 7 Days*	0.00



Global Forecast System Model 16-day Cumulative Precipitation Forecast



GFS 01/31/22 12UTC 384HR FCST VALID WED 02/16/22 12UTC NOAA/NWS/NCEP



GFS WED 220216/1200V384 384HR ACCUMULATED PRECIP (IN)

Date Range
Jan 31 - Feb 16, 2022

Forecasted Cumulative (inches)
0.0