



Sonoma Water

**State Water Resources Control Board
 Temporary Urgency Change Order (12/11/2021)
 Russian River Hydrologic Report
 December 31, 2021 - January 6, 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).

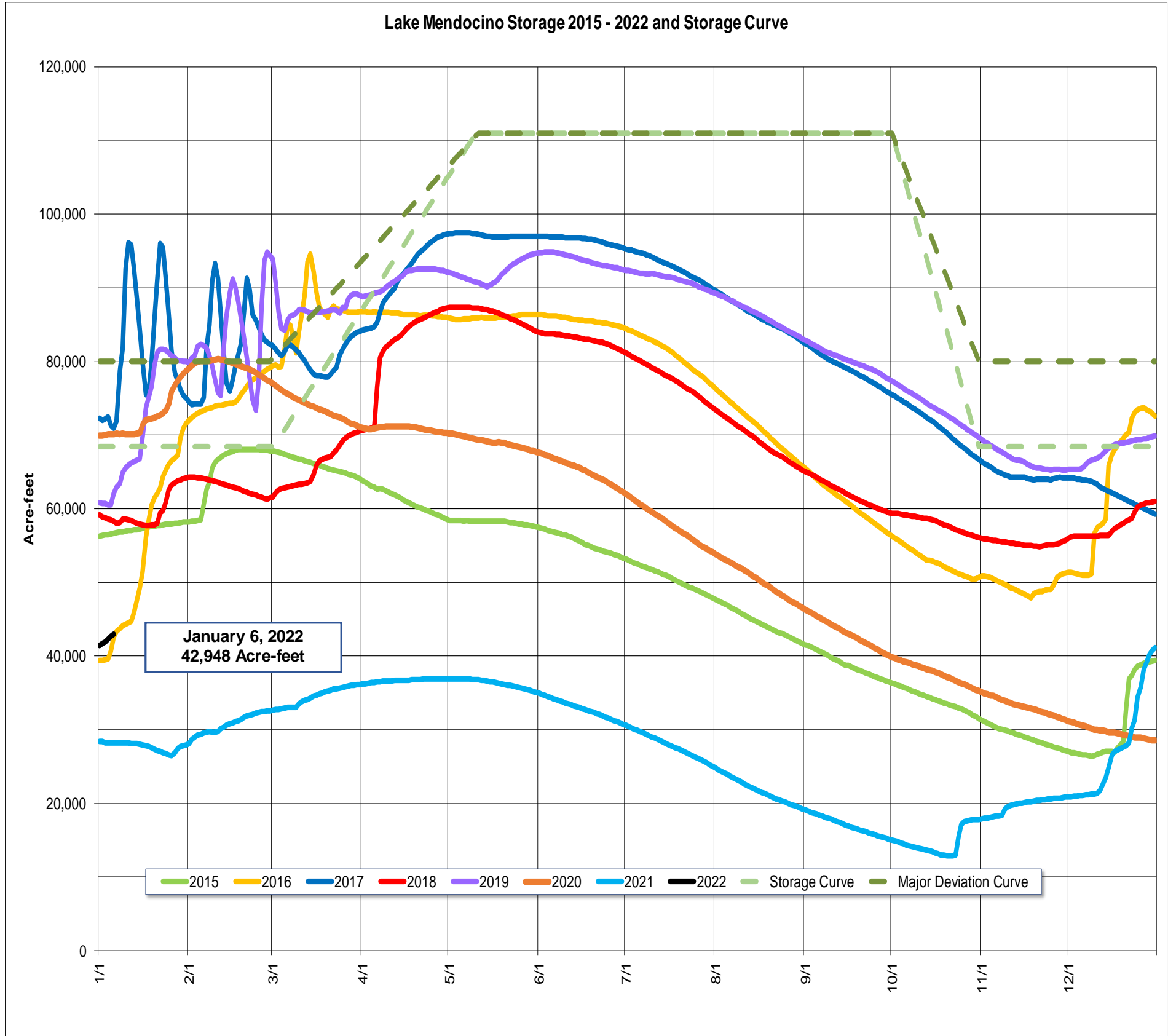
Instream Flow Requirements as of January 6, 2022

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

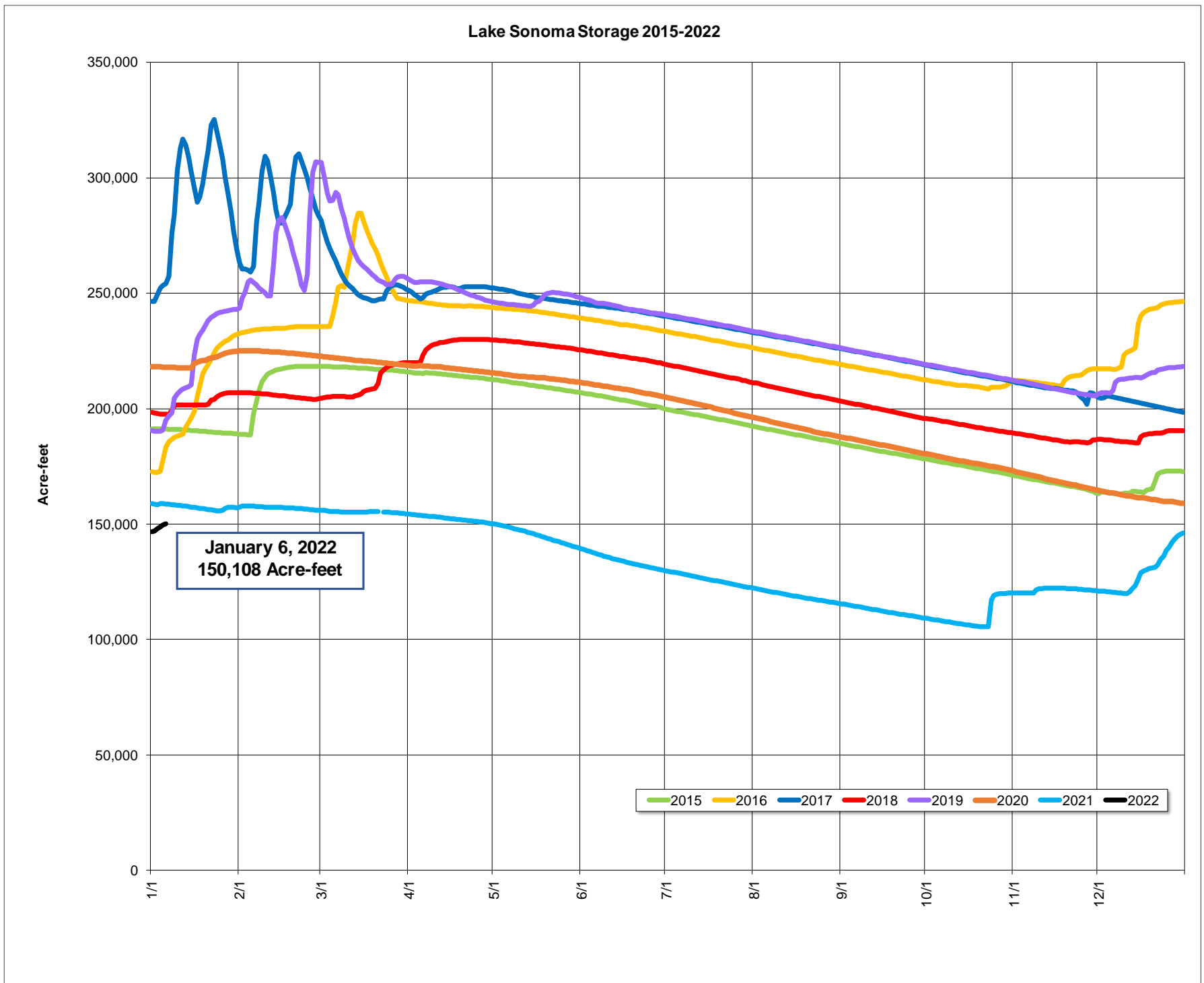


Storage (acre-feet)	January 6, 2022	42,948	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	21,781	726
	Last 7 days	1,824	261
Daily Inflow (cfs)	Last 7 days	Min	158
		Max	232
		Mean	190
Release (cfs)	Last 7 days	Min	25
		Max	30
		Mean	29

Lake Sonoma



Nathan Baskett, March 3 , 2011



Storage (acre-feet)	January 6, 2022	150,108	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	38,298	1,277
	Last 7 days	3,876	554
Daily Inflow (cfs)	Last 7 days	Min	249
		Max	572
		Mean	405
Release (cfs)	Last 7 days	Min	77
		Max	77
		Mean	77

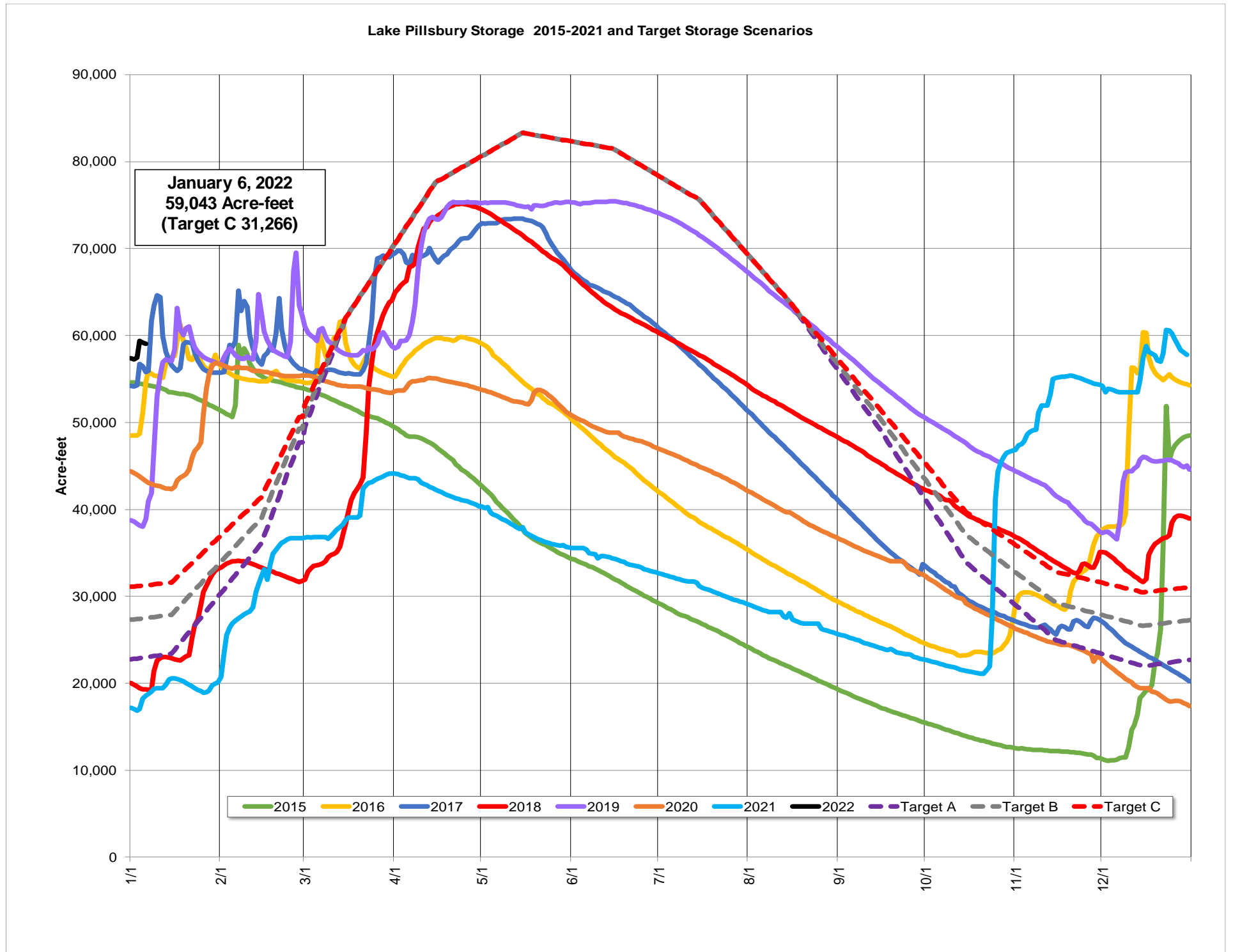
Potter Valley Project

PVP Diversion (cfs)	January 6, 2022	46
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Lake Pillsbury

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2021 - January 6, 2022	137,572	1418
	Last 7 days	21,245	3,035

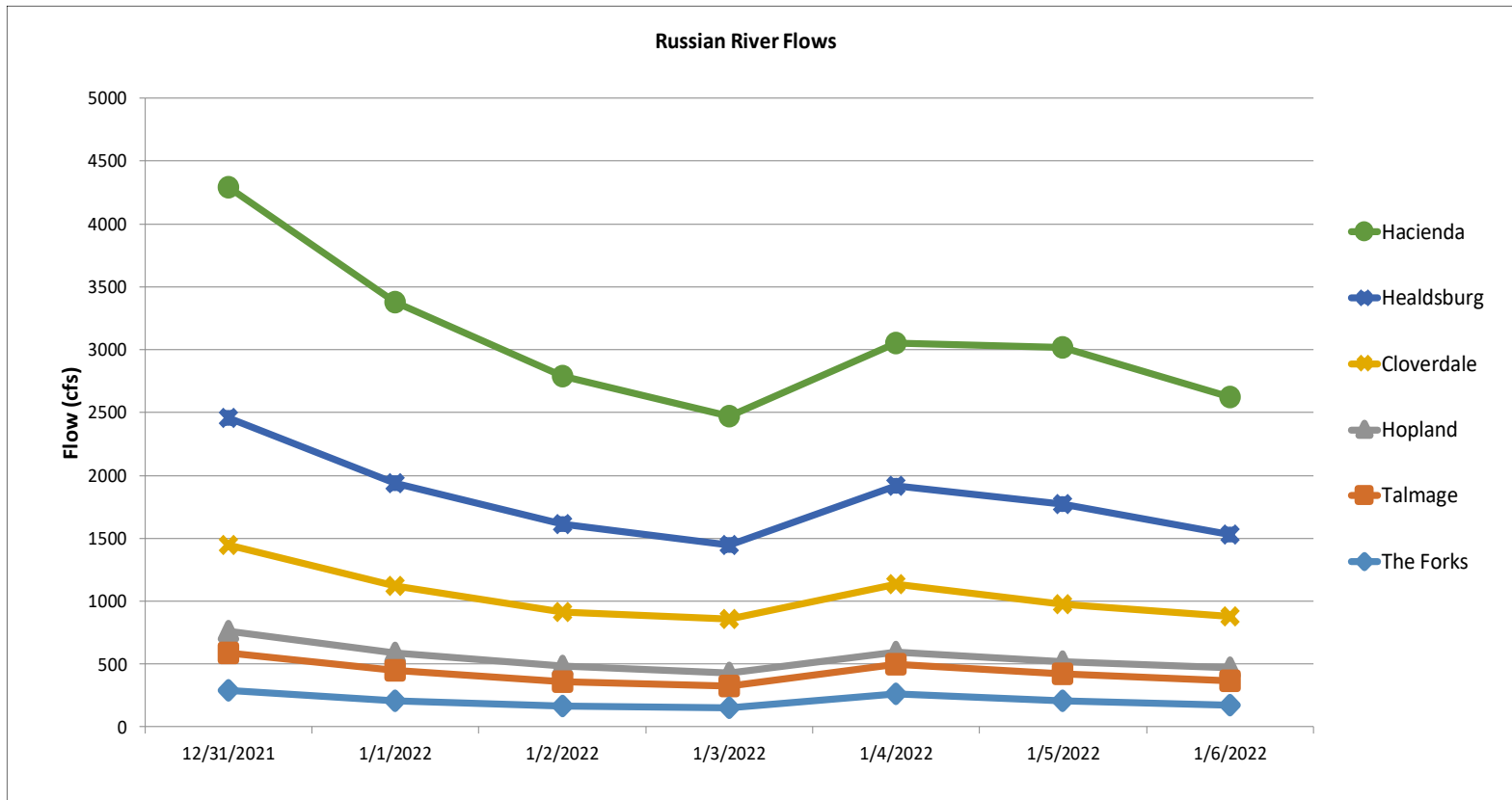
*Inflow calculation based on criteria established in D1610



Russian River Flows (December 31, 2021 - January 6, 2022)

Gage	24-hr Average Flow (cfs)						
	Dec 31, 2021	Jan 1, 2022	Jan 2, 2022	Jan 3, 2022	Jan 4, 2022	Jan 5, 2022	Jan 6, 2022
The Forks*	288	211	166	153	262	210	174
Talmage USGS 11462080	591	449	362	323	501	422	370
Hopland USGS 11462500	762	589	483	430	593	522	471
Cloverdale USGS 11463000	1449	1124	915	855	1136	974	878
Healdsburg USGS 11464000	2460	1940	1610	1450	1920	1770	1530
Hacienda USGS 11467000	4290	3380	2790	2470	3050	3020	2620

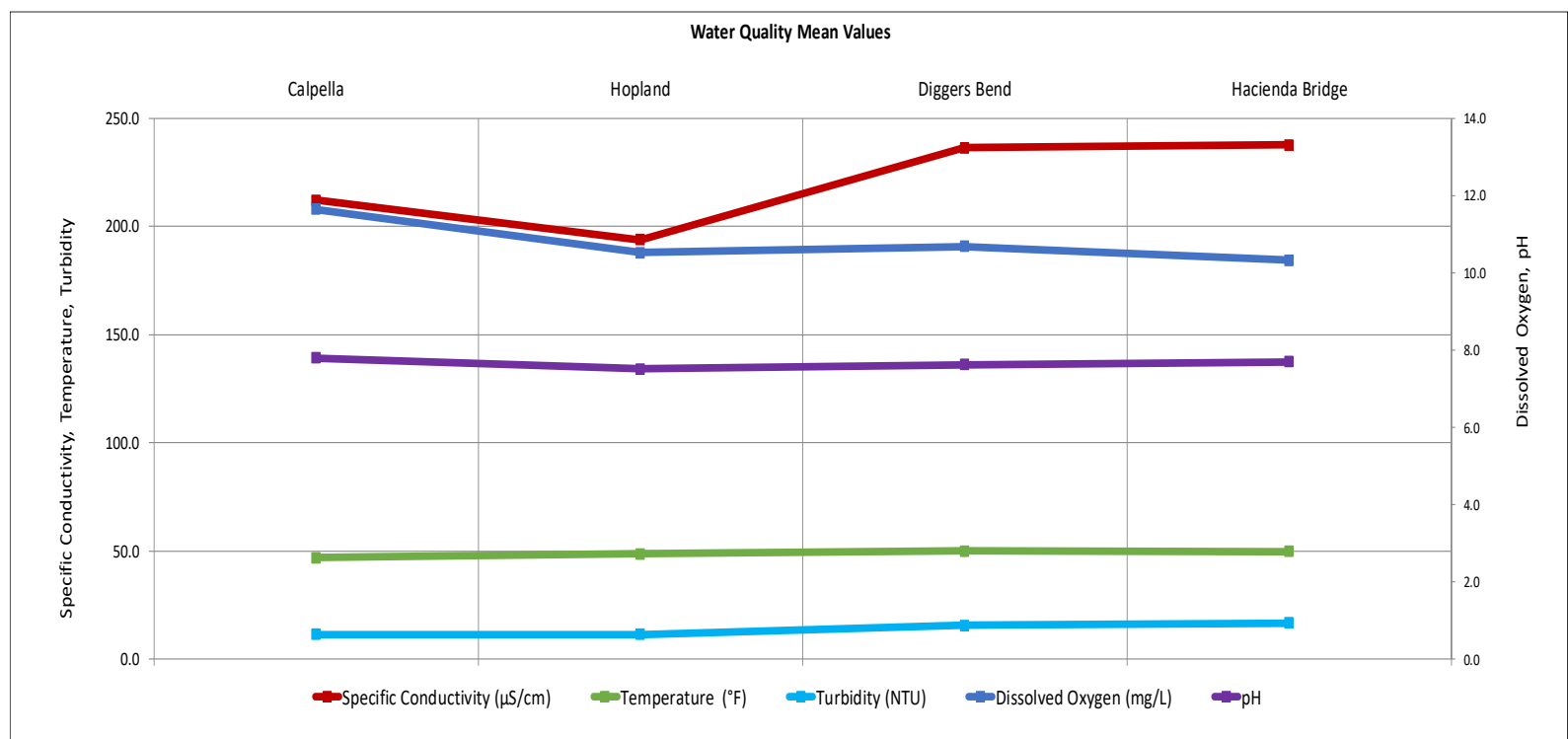
*West Fork (USGS 11461000) + East Fork (Coyote Valley Dam Release)



Russian River Water Quality (December 31, 2021 - January 6, 2022)

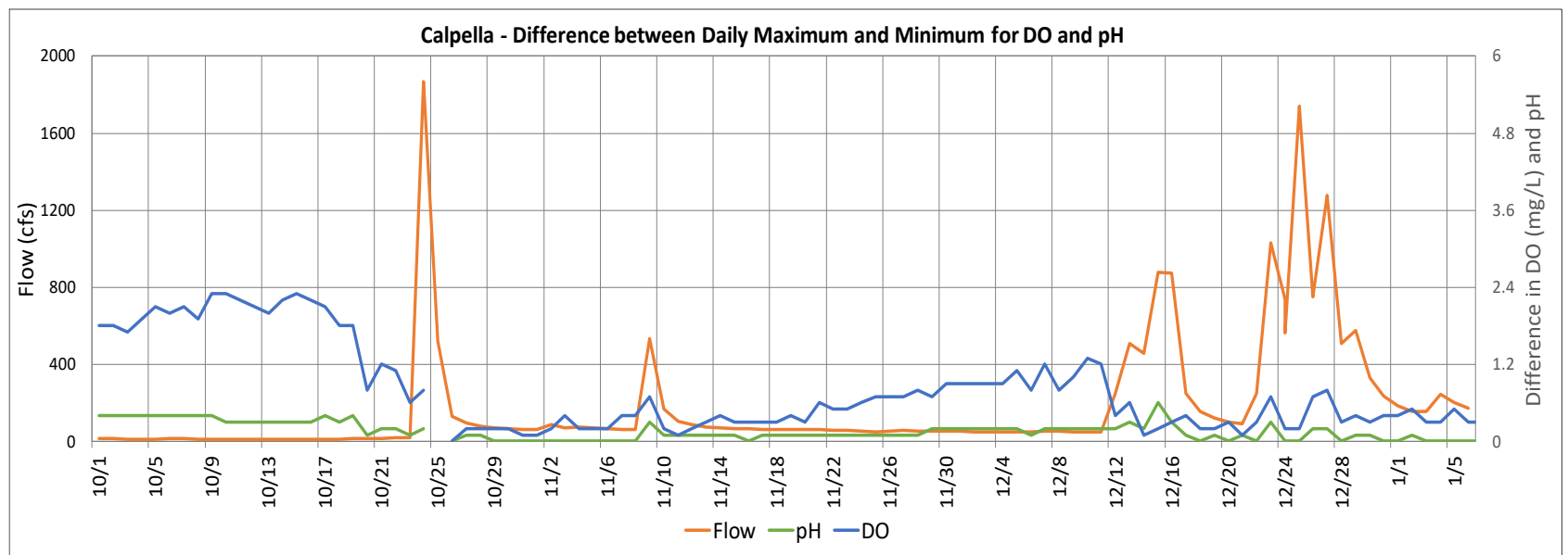
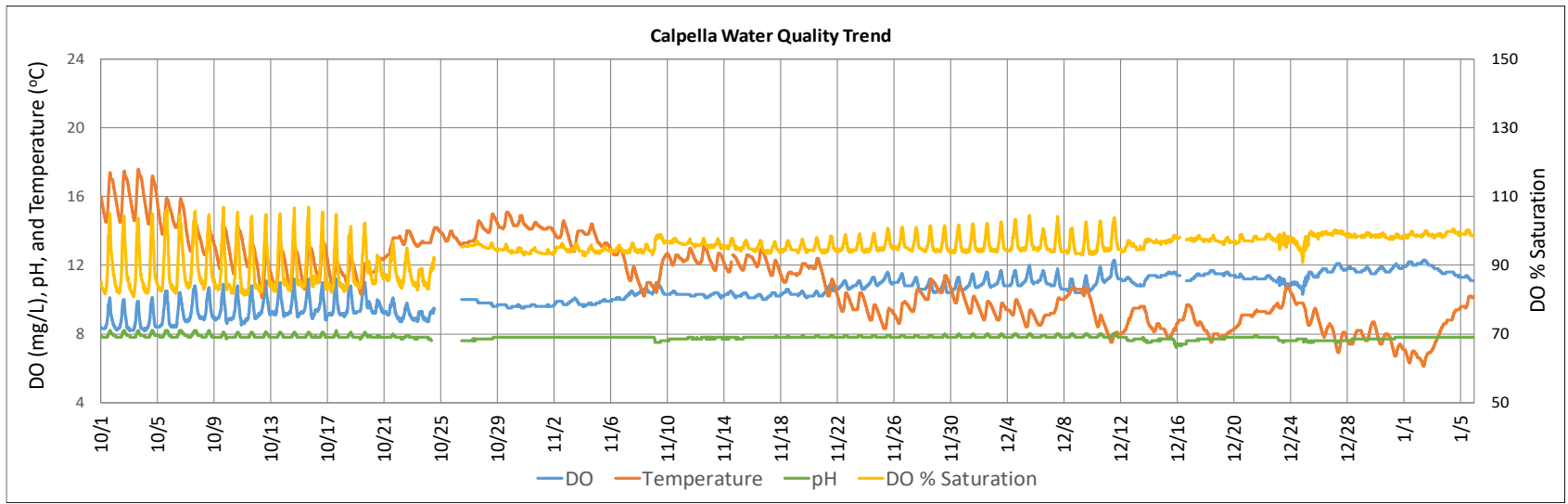
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463200	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	43.0	45.7			46.6		46.9	
	Max	50.7	52.5			53.8		53.6	
	Mean	46.8	48.7			50.0		49.8	
Specific Conductivity (µS/cm)	Min	192.0	164.0			198.0		200.0	
	Max	225.0	219.0			262.0		261.0	
	Mean	212.3	194.0			236.4		237.8	
Dissolved Oxygen (mg/L)	Min	11.0	9.9			10.1		9.8	
	Max	12.3	10.9			11.1		10.7	
	Mean	11.6	10.5			10.7		10.3	
Dissolved Oxygen (% Saturation)	Min	97.4	89.7			93.0		87.8	
	Max	100.6	95.2			98.4		95.0	
	Mean	98.8	91.6			94.6		91.2	
pH	Min	7.7	7.5			7.6		7.6	
	Max	7.8	7.6			7.8		7.8	
	Mean	7.8	7.5			7.6		7.7	
Turbidity (NTU)	Min	7.5	6.3			8.9		9.8	
	Max	23.5	29.6			32.4		29.4	
	Mean	11.3	11.4			15.6		16.7	

*Station operated seasonally



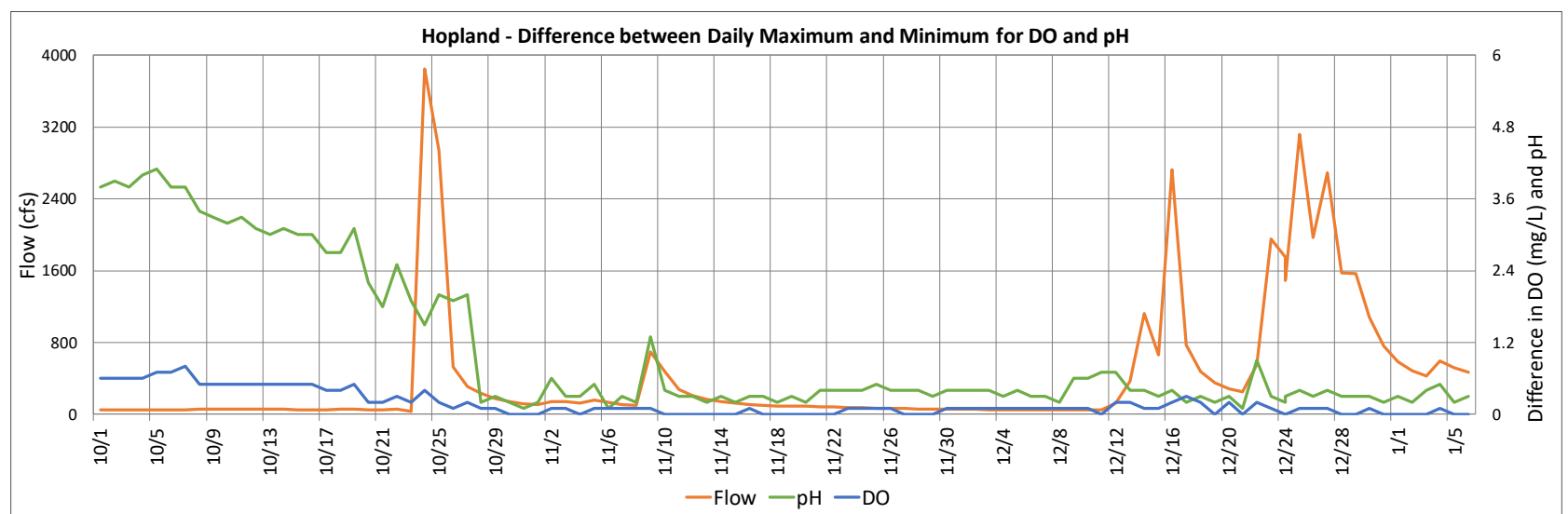
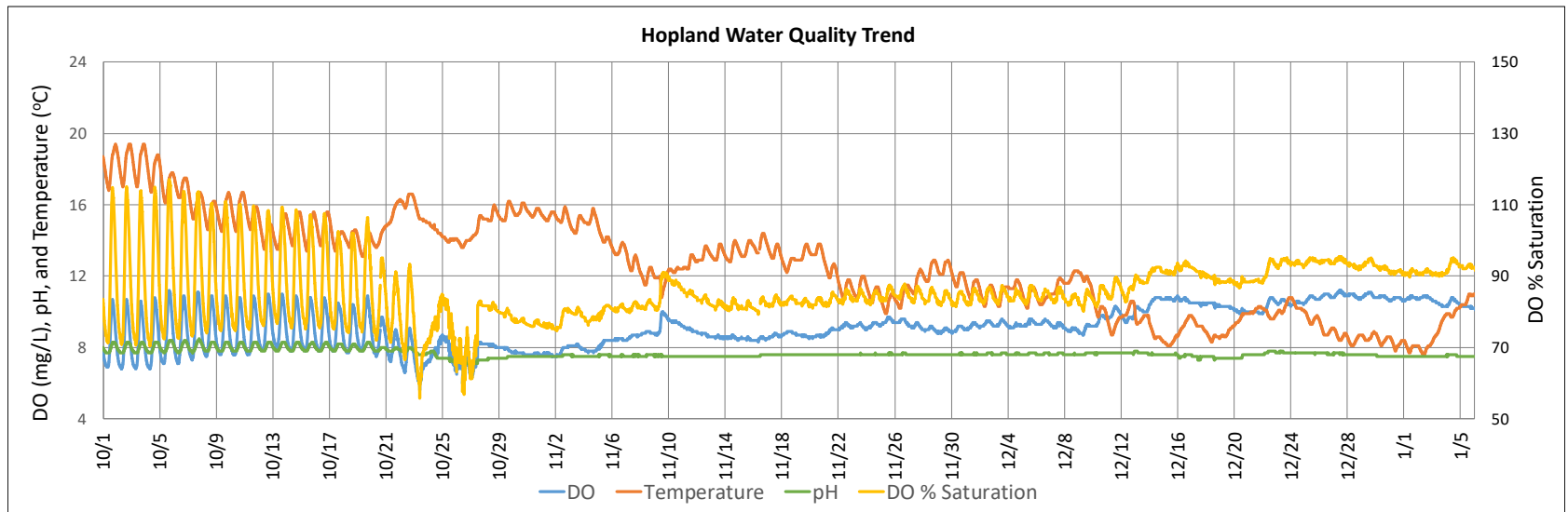
Russian River Water Quality (October 1, 2021 - January 6, 2022)

Calpella (East Fork Russian River)



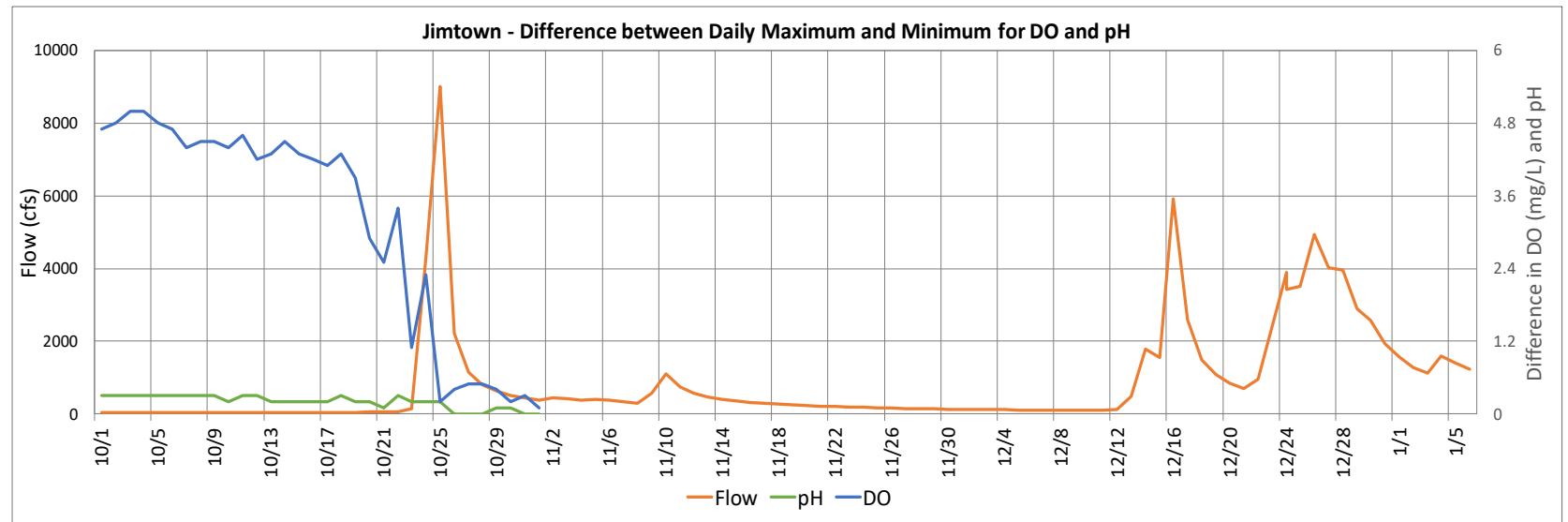
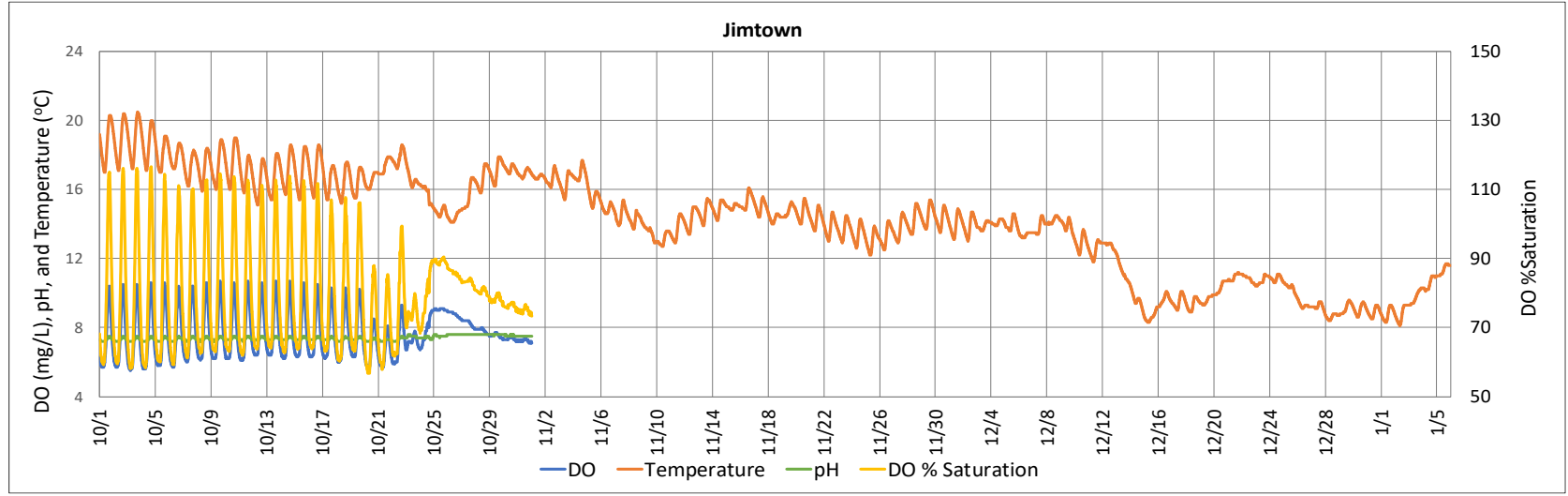
Russian River Water Quality (October 1, 2021 - January 6, 2022)

Hopland



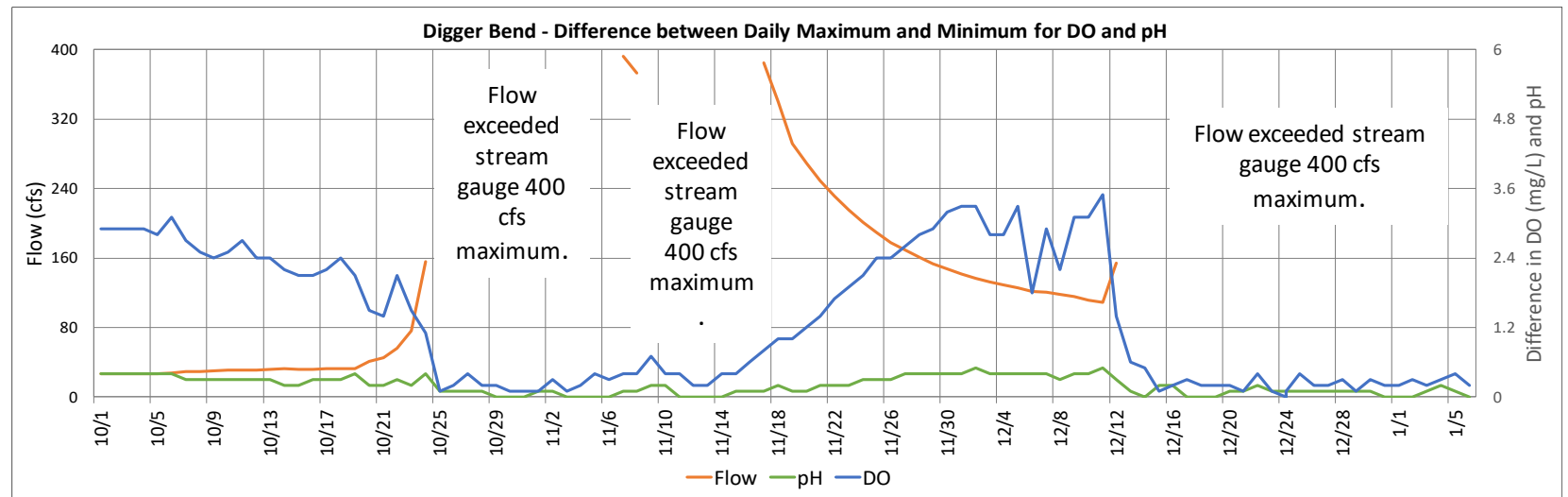
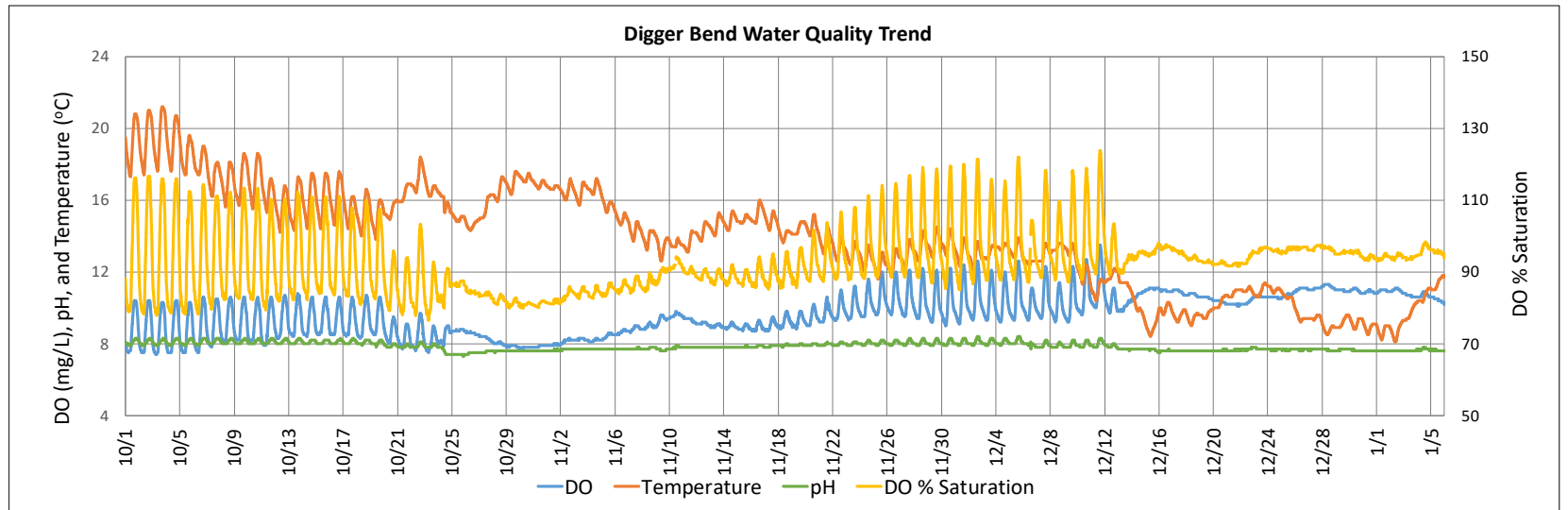
Russian River Water Quality (October 1, 2021 - January 6, 2022)

Jimtown



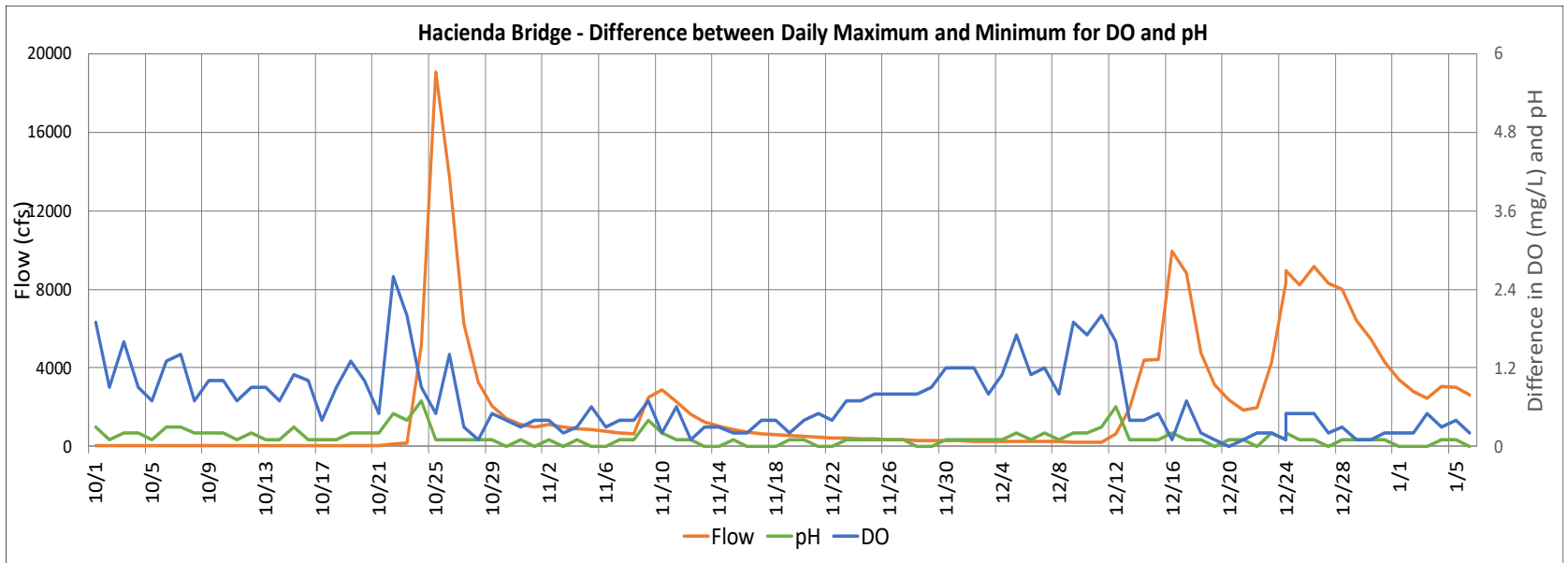
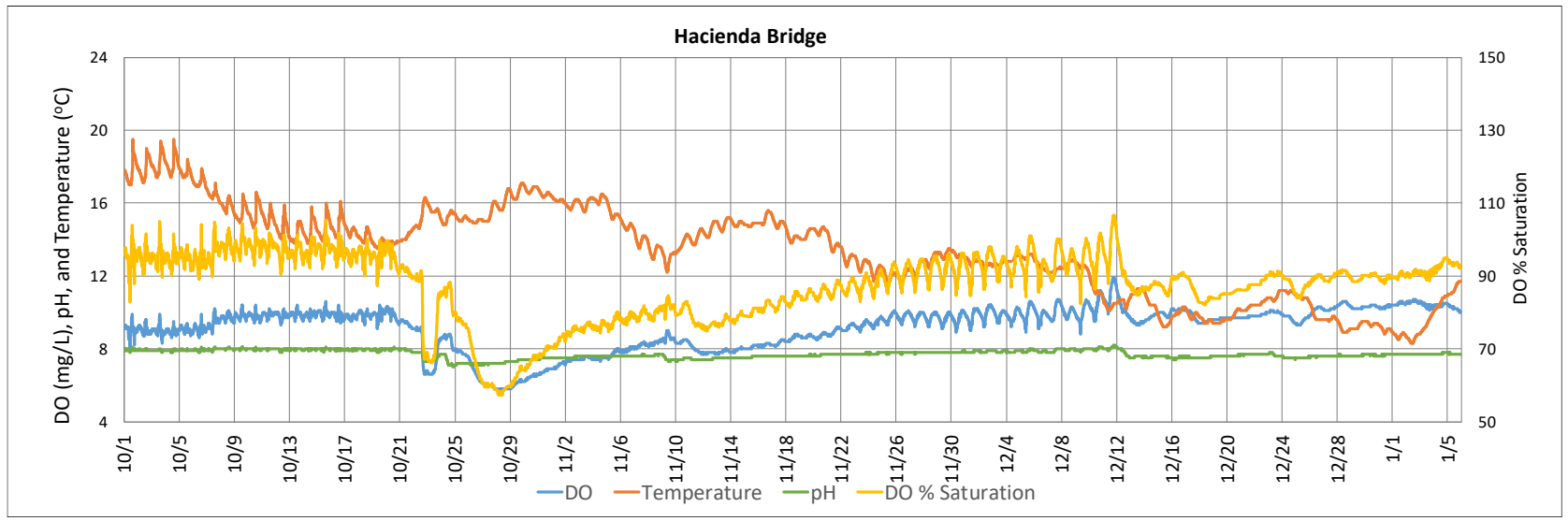
Russian River Water Quality (October 1, 2021 - January 6, 2022)

Digger Bend



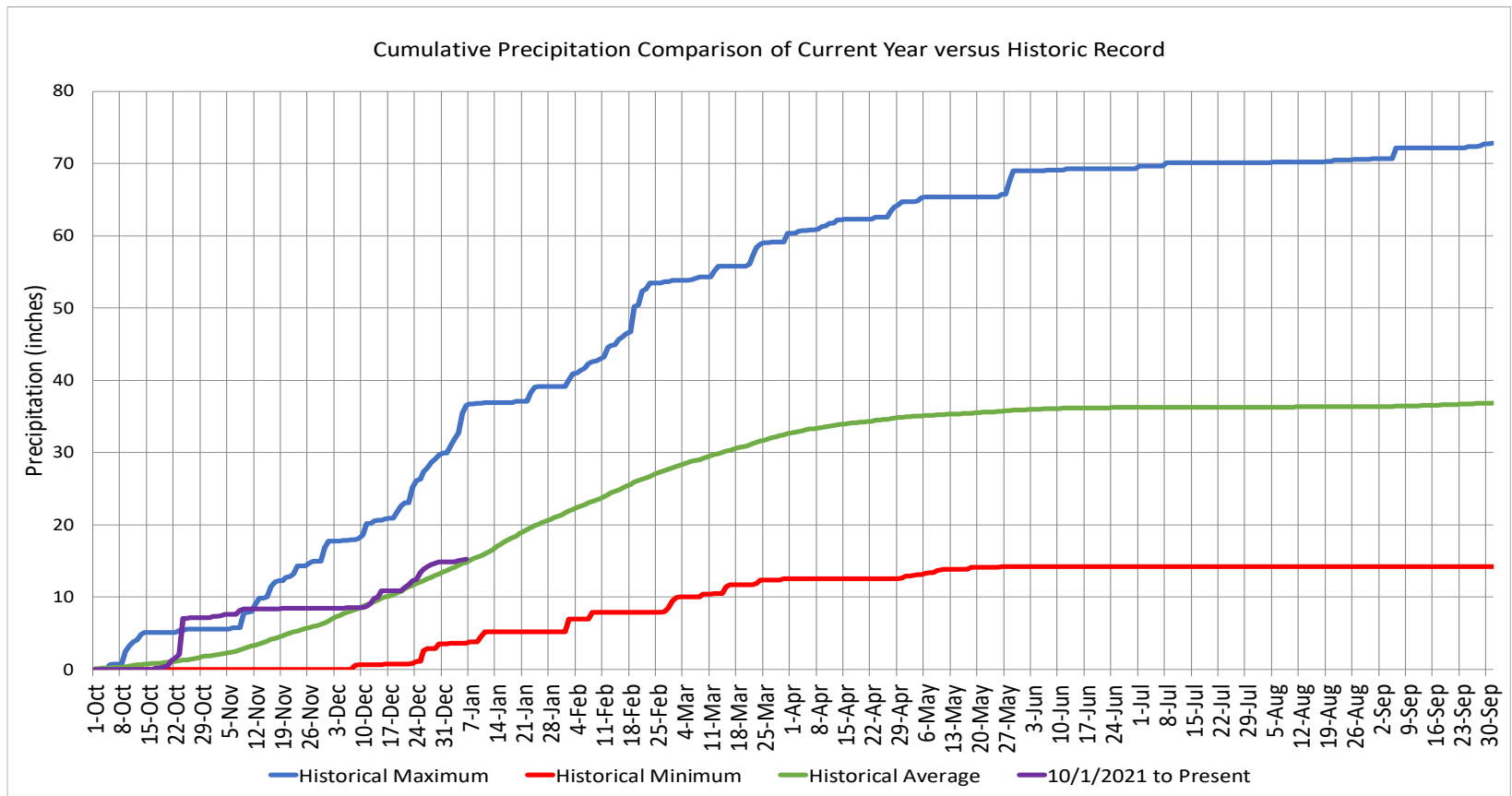
Russian River Water Quality (October 1, 2021 - January 6, 2022)

Hacienda Bridge



Precipitation

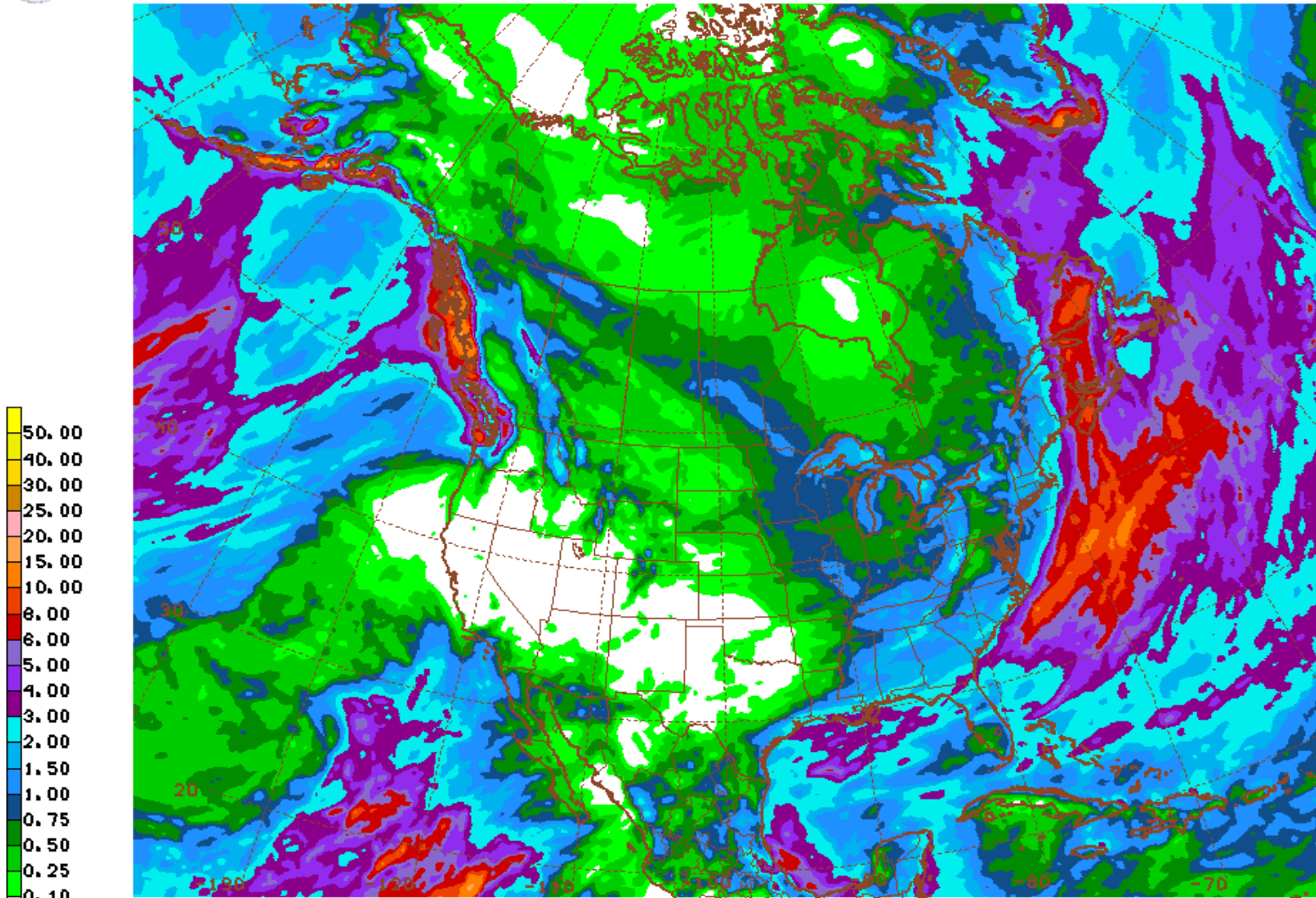
Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2021 - Jan 6, 2022	15.2
Last 7 Days*	0.36



Global Forecast System Model 16-day Cumulative Precipitation Forecast



GFS 01/10/22 12UTC 384HR FCST VALID WED 01/26/22 12UTC NOAA/NWS/NCEP



GFS WED 220126/1200V384 384HR ACCUMULATED PRECIP (IN)

Date Range
Jan 10 - Jan 26, 2022

Forecasted Cumulative (inches)
0.0