



**Sonoma
Water**

**State Water Resources Control Board
Temporary Urgency Change Order (12/11/2021)
Russian River Hydrologic Report
January 14, 2022 - January 20, 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).

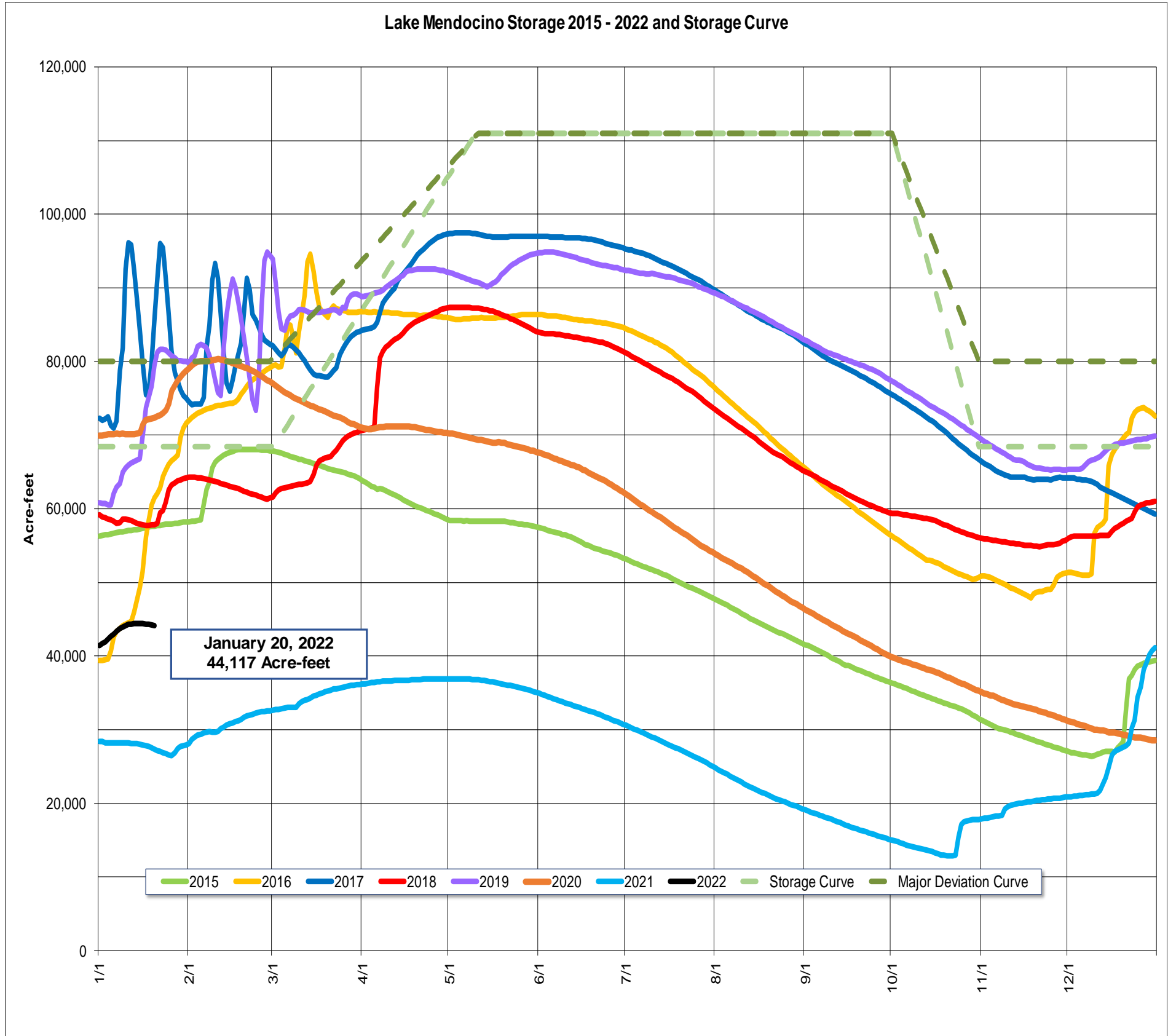
Instream Flow Requirements as of January 20, 2022

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

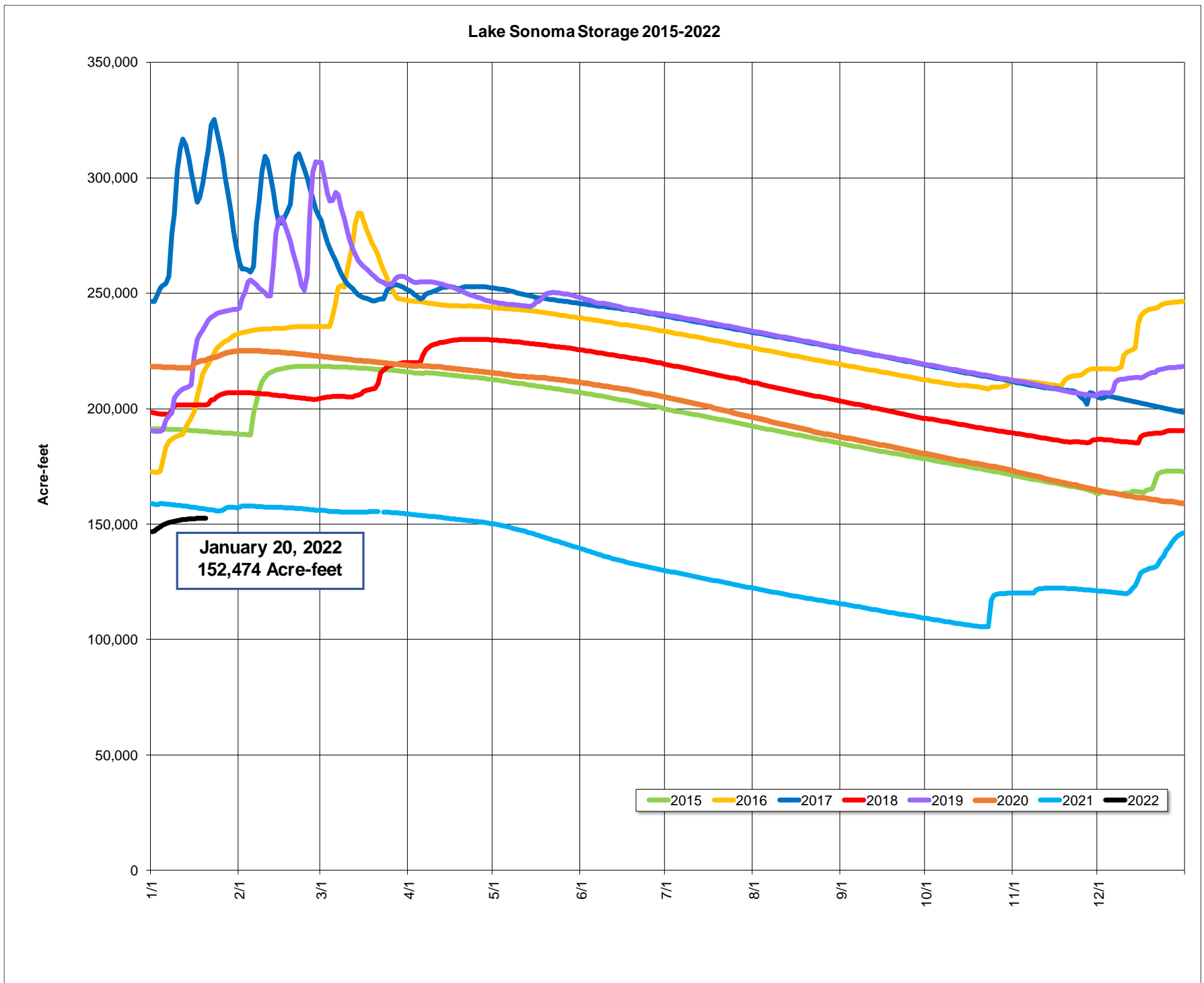


Storage (acre-feet)	January 20, 2022	44,117	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	16,320	544
	Last 7 days	-315	-45
Daily Inflow (cfs)	Last 7 days	Min	75
		Max	115
		Mean	92
Release (cfs)	Last 7 days	Min	91
		Max	123
		Mean	109

Lake Sonoma



Nathan Baskett, March 3 , 2011



Storage (acre-feet)	January 20, 2022	152,474	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	25,287	843
	Last 7 days	307	44
Daily Inflow (cfs)	Last 7 days	Min	86
		Max	137
		Mean	106
Release (cfs)	Last 7 days	Min	71
		Max	79
		Mean	76

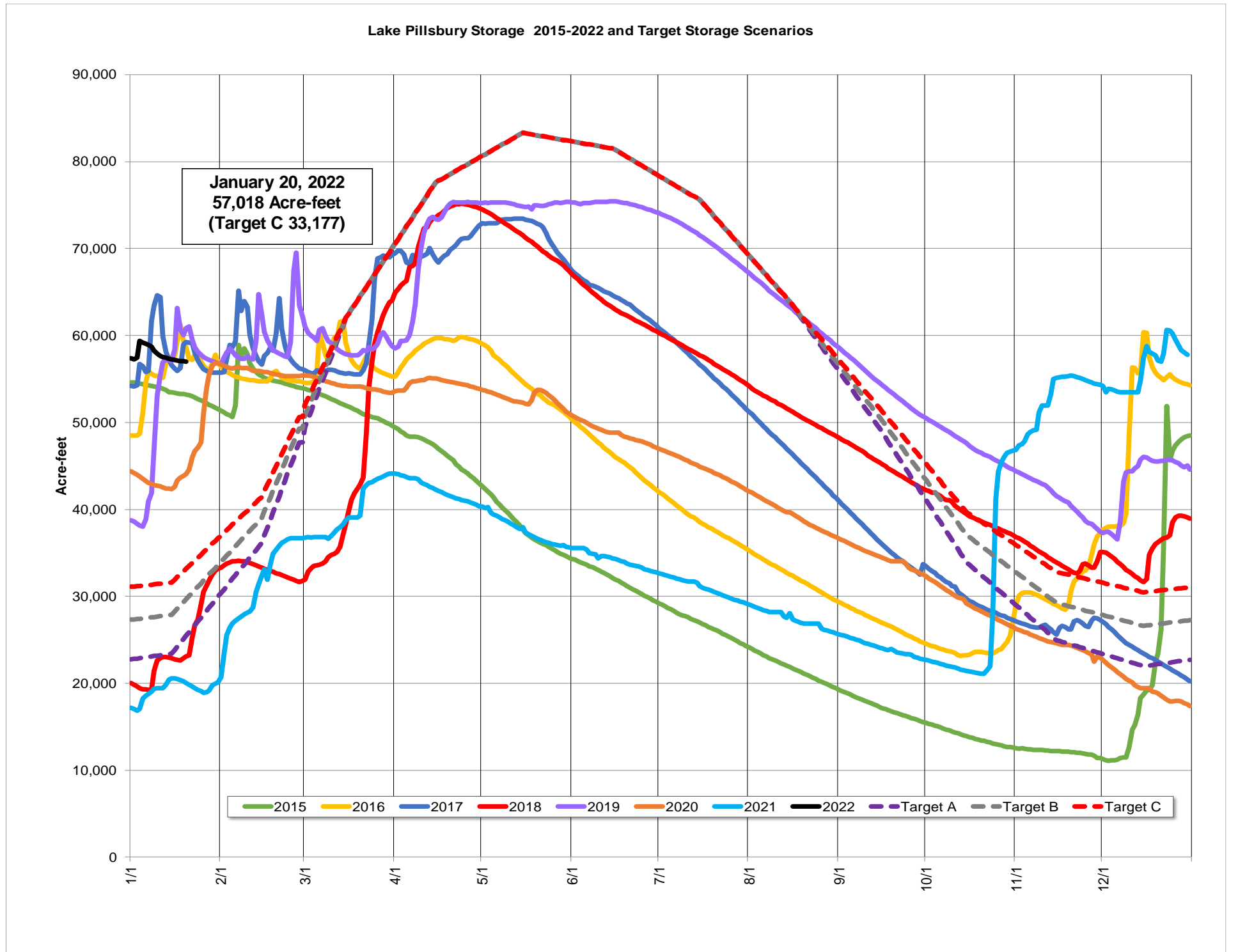
Potter Valley Project

PVP Diversion (cfs)	January 20, 2022	46
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Lake Pillsbury

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2021 - January 20, 2022	163,816	1476
	Last 7 days	6,894	985

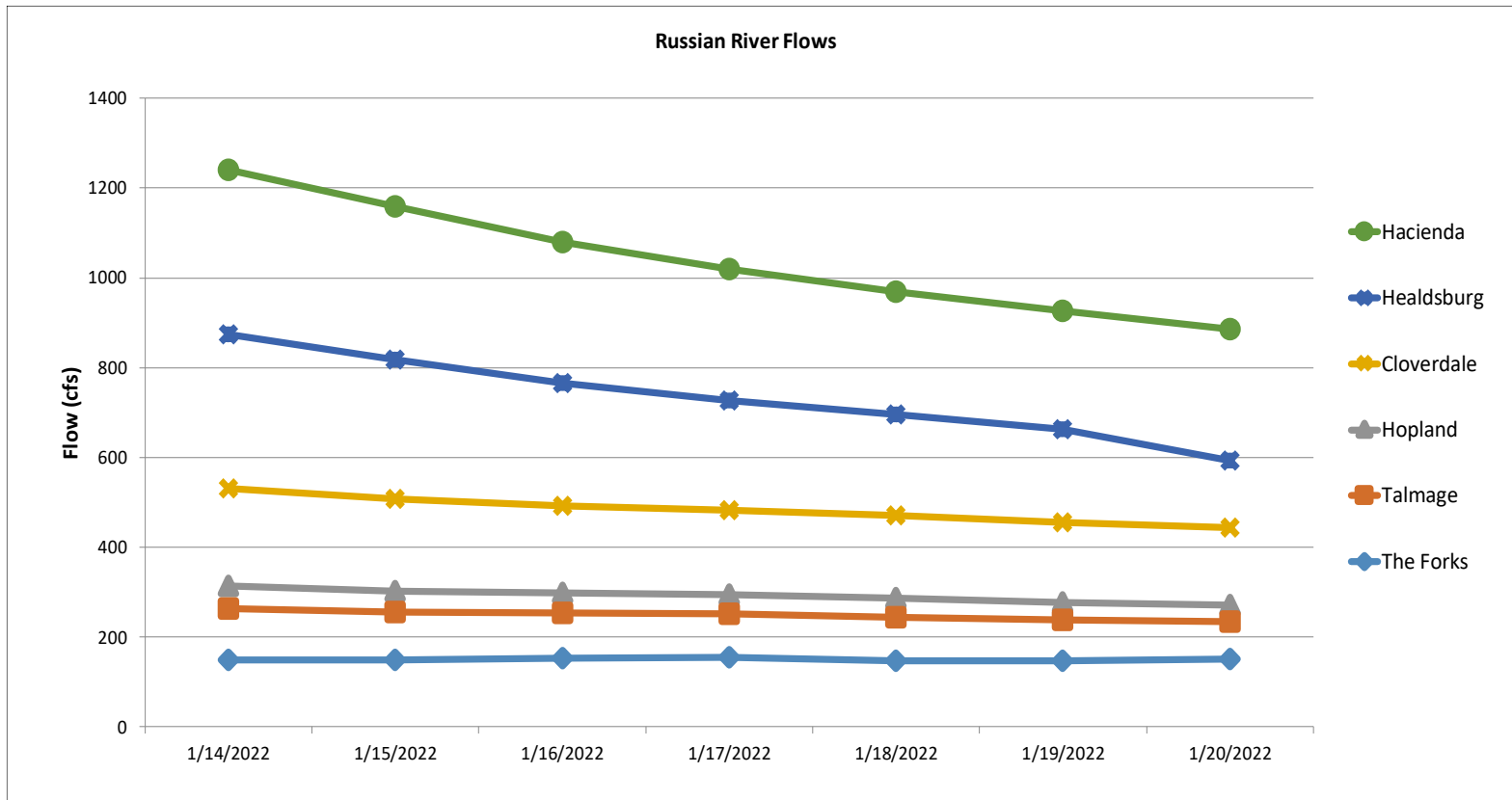
*Inflow calculation based on criteria established in D1610



Russian River Flows (January 14, 2022 - January 20, 2022)

Gage	24-hr Average Flow (cfs)						
	Jan 14, 2022	Jan 15, 2022	Jan 16, 2022	Jan 17, 2022	Jan 18, 2022	Jan 19, 2022	Jan 20, 2022
The Forks*	149	149	153	154	148	148	152
Talmage USGS 11462080	263	256	254	252	244	238	234
Hopland USGS 11462500	314	303	298	295	287	277	271
Cloverdale USGS 11463000	531	508	492	483	471	456	444
Healdsburg USGS 11464000	875	817	766	727	695	663	594
Hacienda USGS 11467000	1240	1160	1080	1020	970	926	885

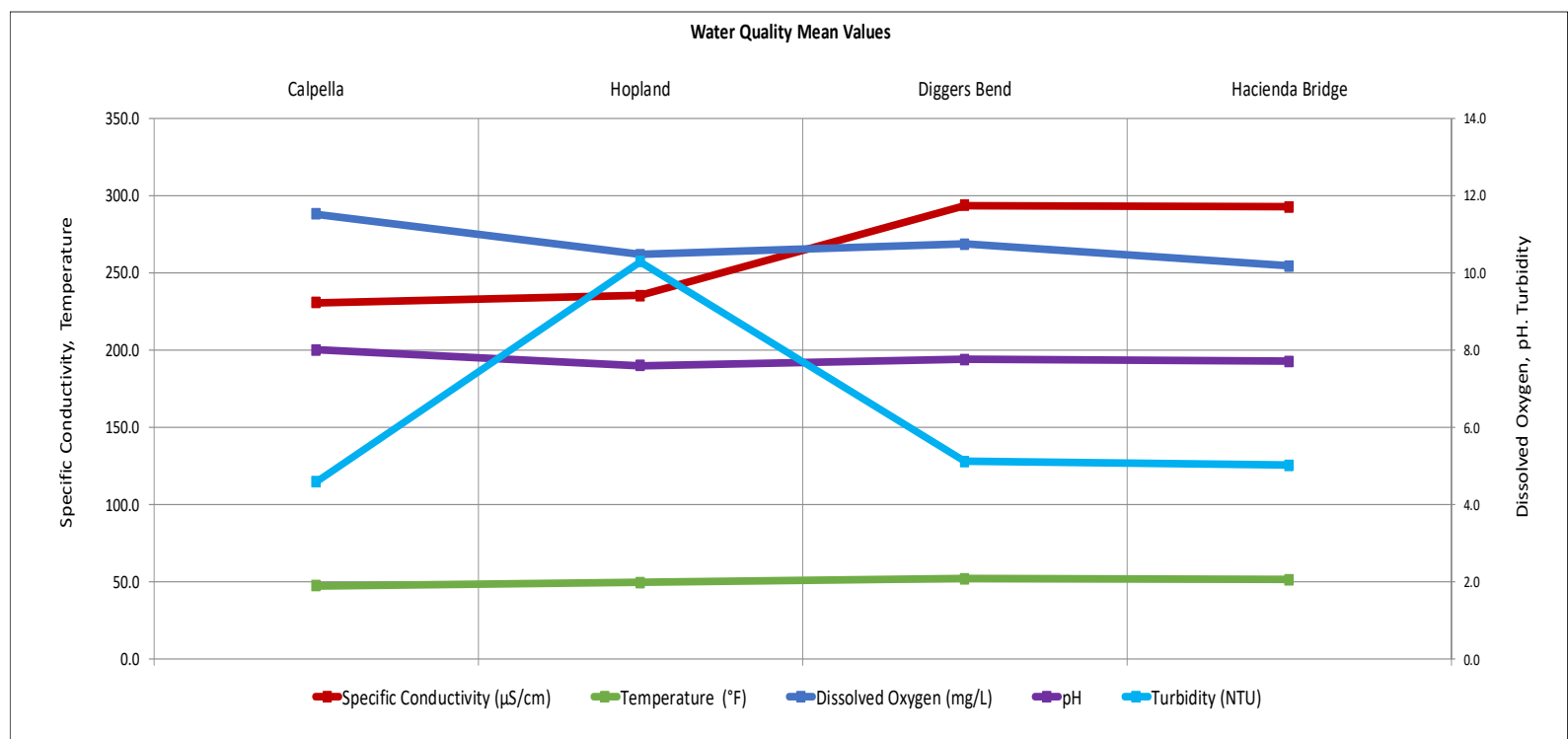
*West Fork (USGS 11461000) + East Fork (Coyote Valley Dam Release)



Russian River Water Quality (January 14, 2022 - January 20, 2022)

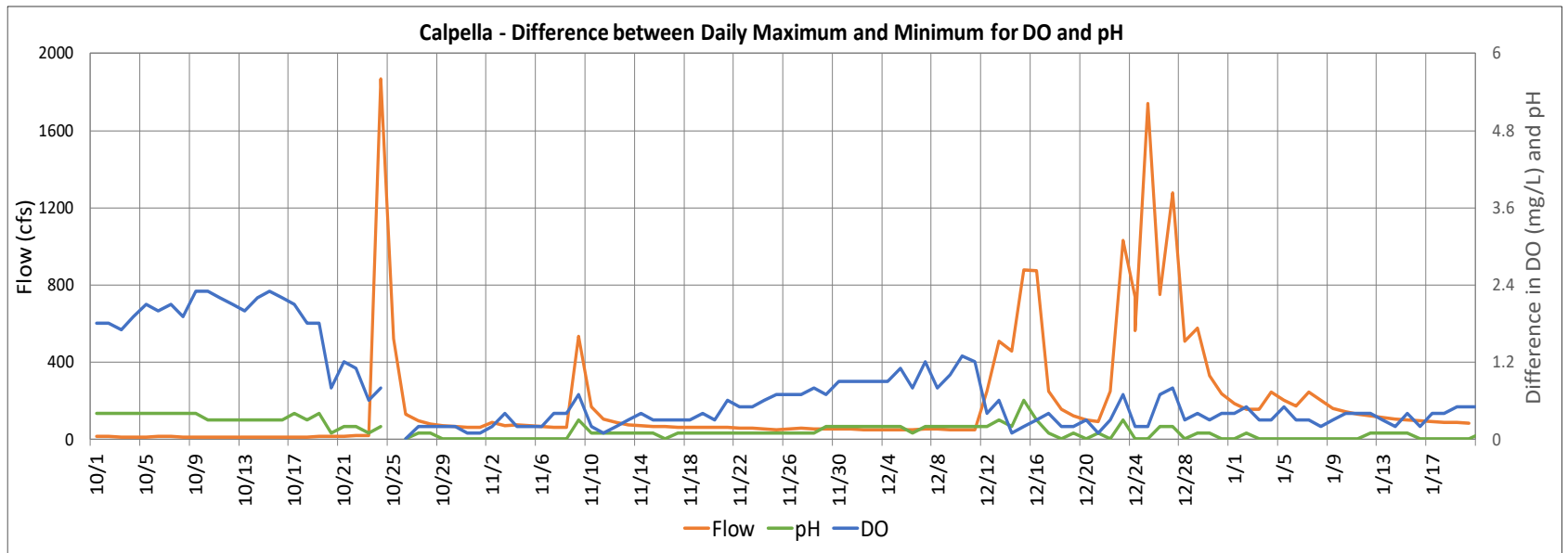
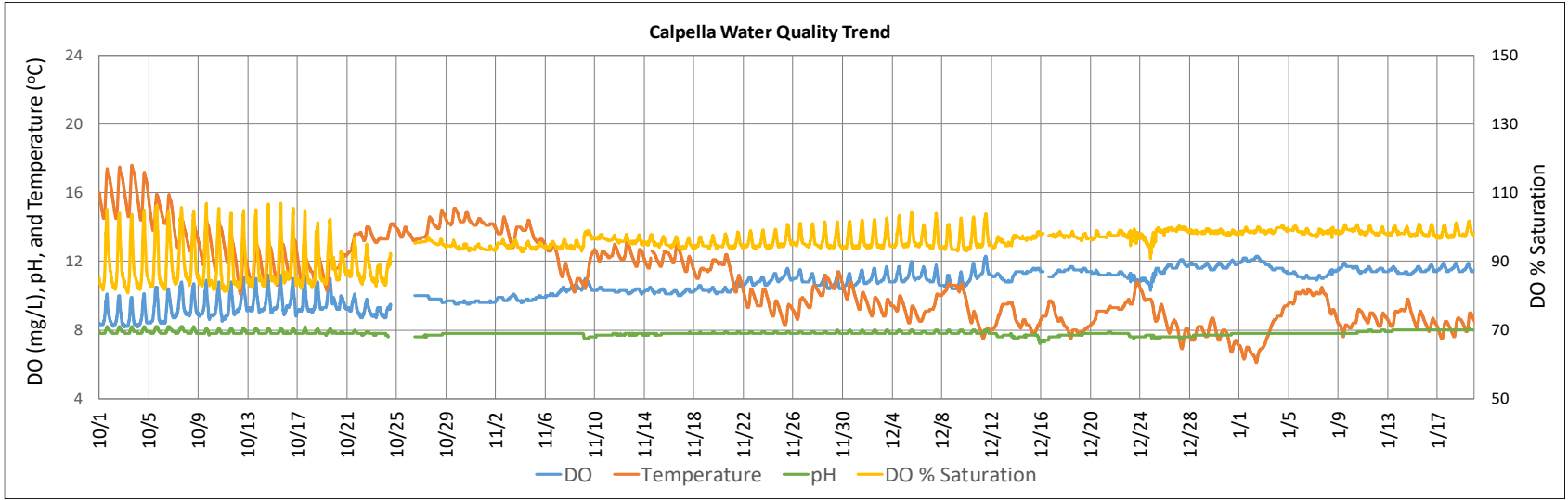
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463200	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	45.5	48.2			50.5		50.4	
	Max	49.6	51.6			53.4		52.7	
	Mean	47.3	49.7			52.1		51.5	
Specific Conductivity (µS/cm)	Min	228.0	228.0			284.0		284.0	
	Max	233.0	242.0			302.0		299.0	
	Mean	230.9	235.4			293.8		292.7	
Dissolved Oxygen (mg/L)	Min	11.2	10.3			10.5		10.0	
	Max	11.9	10.7			11.4		10.4	
	Mean	11.5	10.5			10.7		10.2	
Dissolved Oxygen (% Saturation)	Min	96.6	90.6			94.8		89.6	
	Max	102.7	95.2			105.5		95.4	
	Mean	98.5	92.4			97.8		91.9	
pH	Min	8.0	7.6			7.7		7.7	
	Max	8.1	7.6			7.8		7.8	
	Mean	8.0	7.6			7.8		7.7	
Turbidity (NTU)	Min	3.9	8.5			3.6		3.9	
	Max	5.5	11.9			8.3		6.7	
	Mean	4.6	10.3			5.1		5.0	

*Station operated seasonally



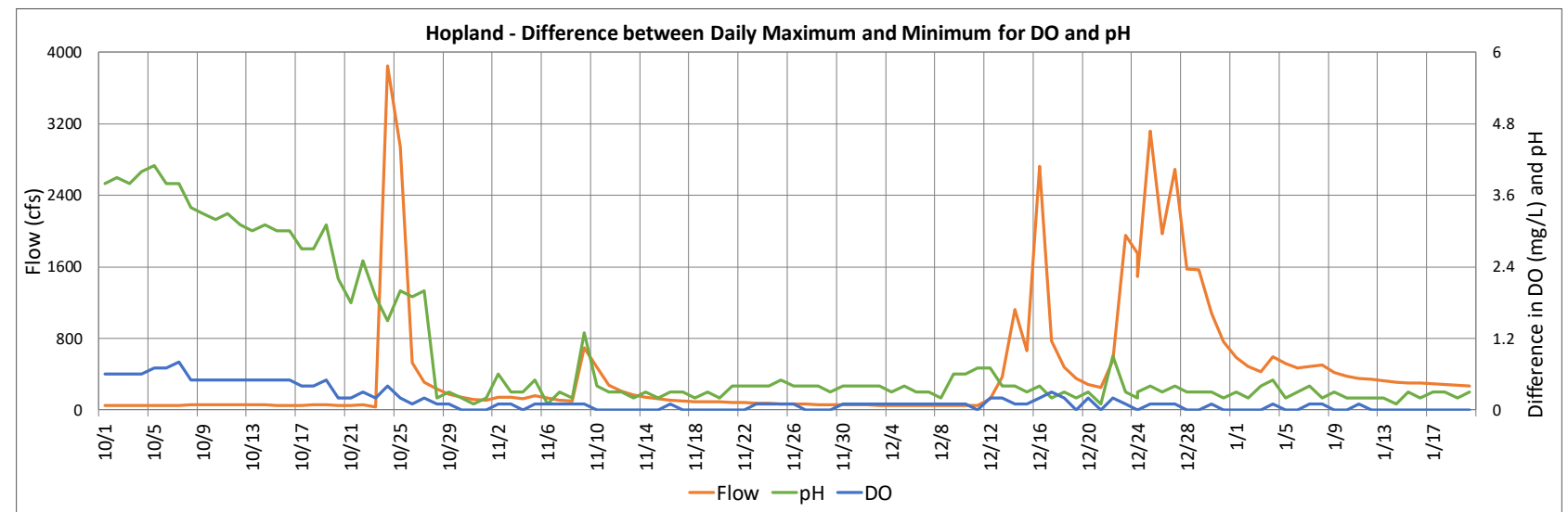
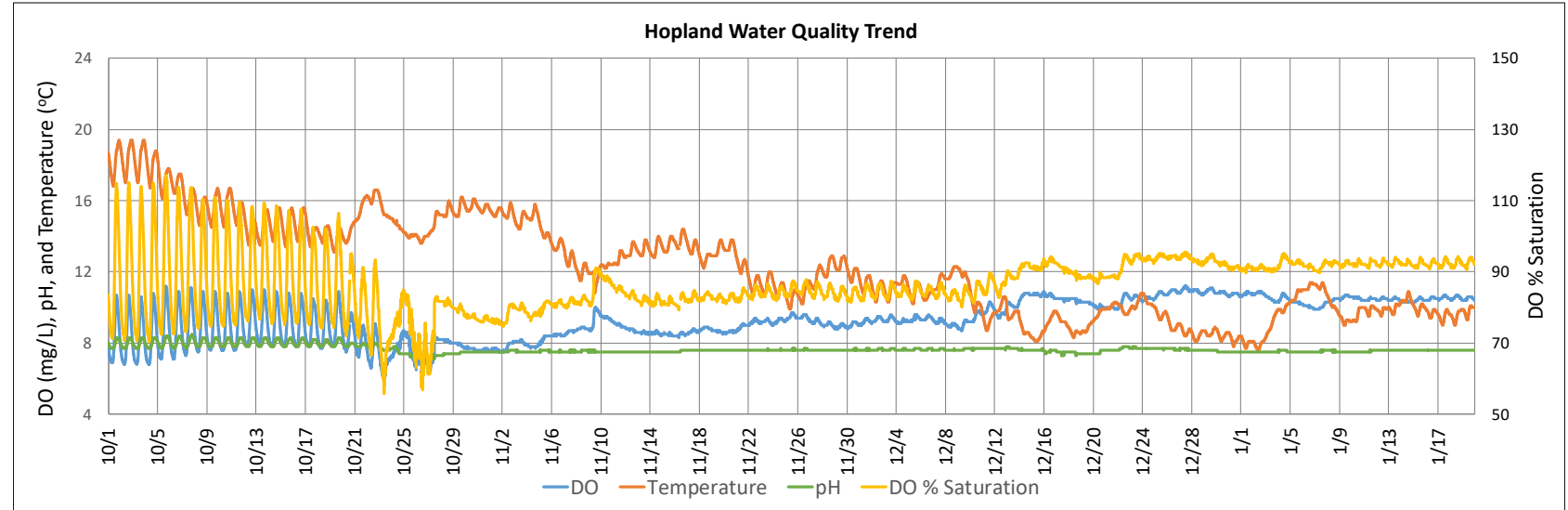
Russian River Water Quality (October 1, 2021 - January 20, 2022)

Calpella (East Fork Russian River)



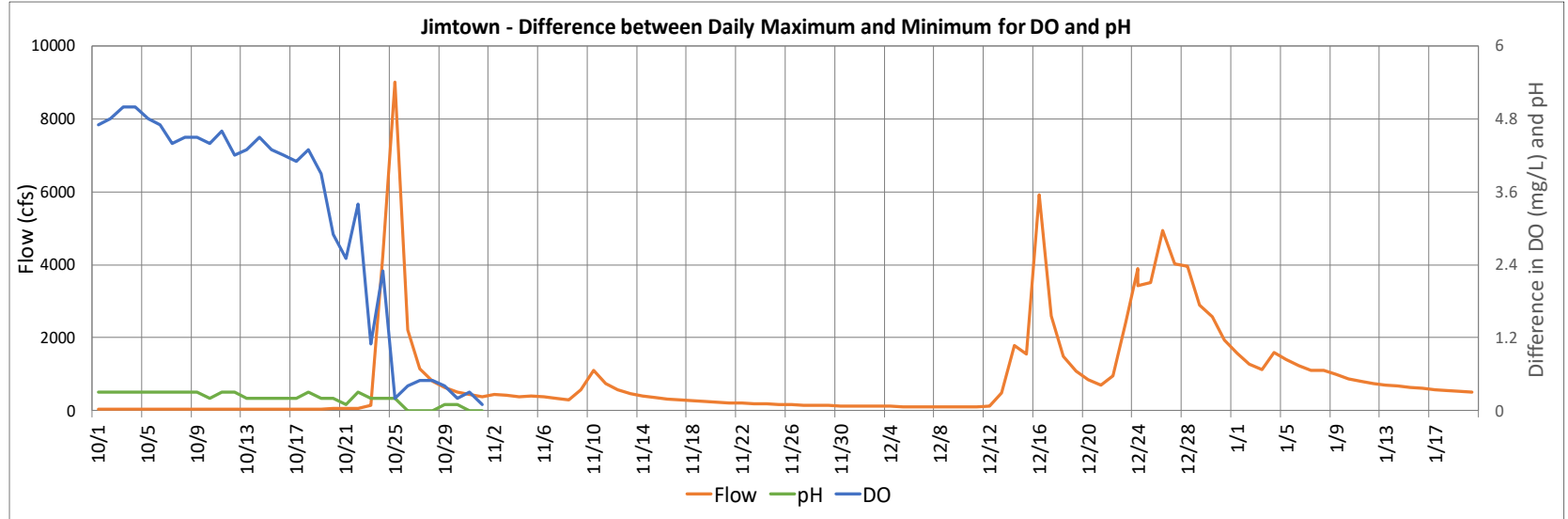
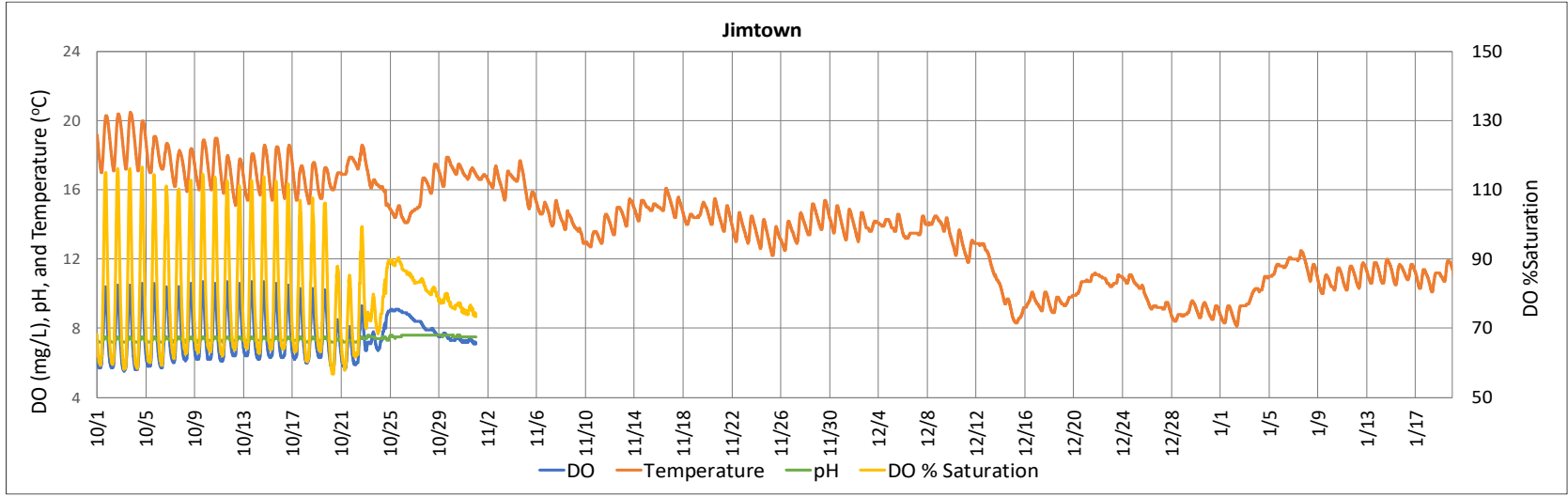
Russian River Water Quality (October 1, 2021 - January 20, 2022)

Hopland



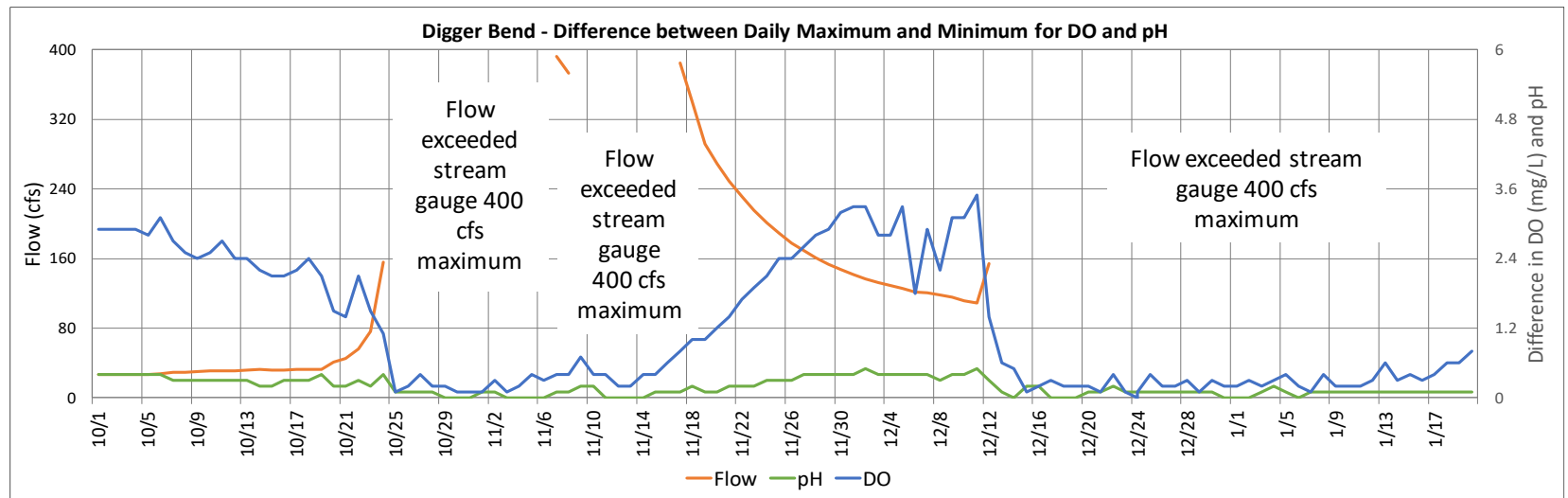
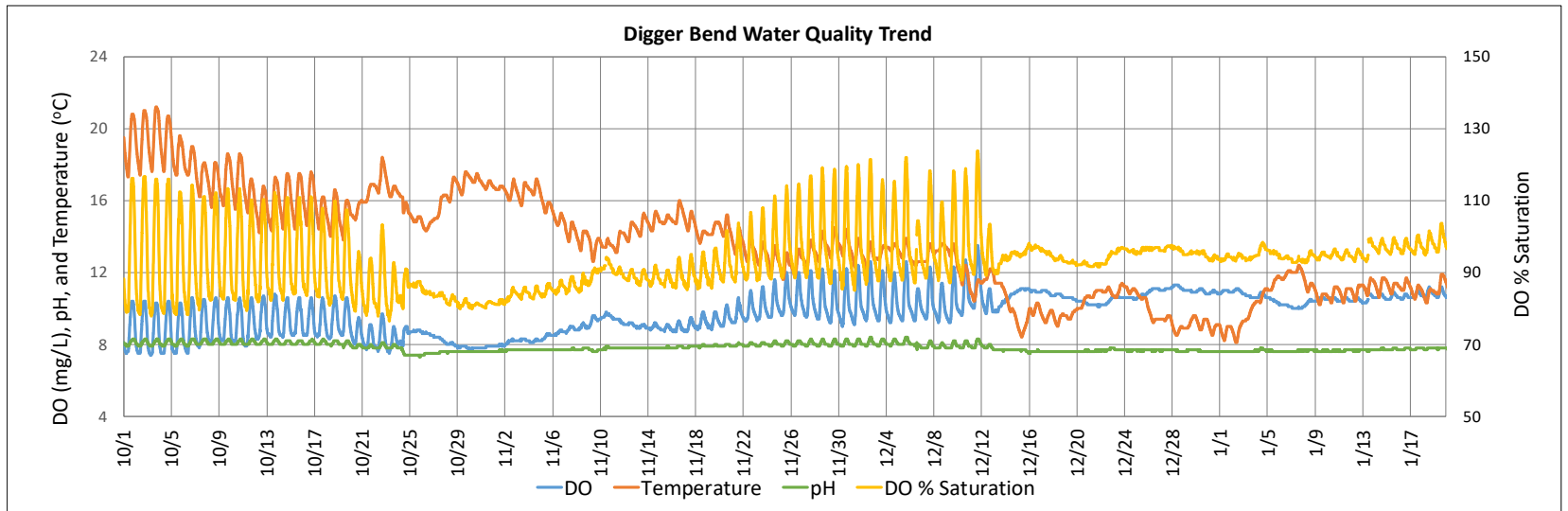
Russian River Water Quality (October 1, 2021 - January 20, 2022)

Jimtown



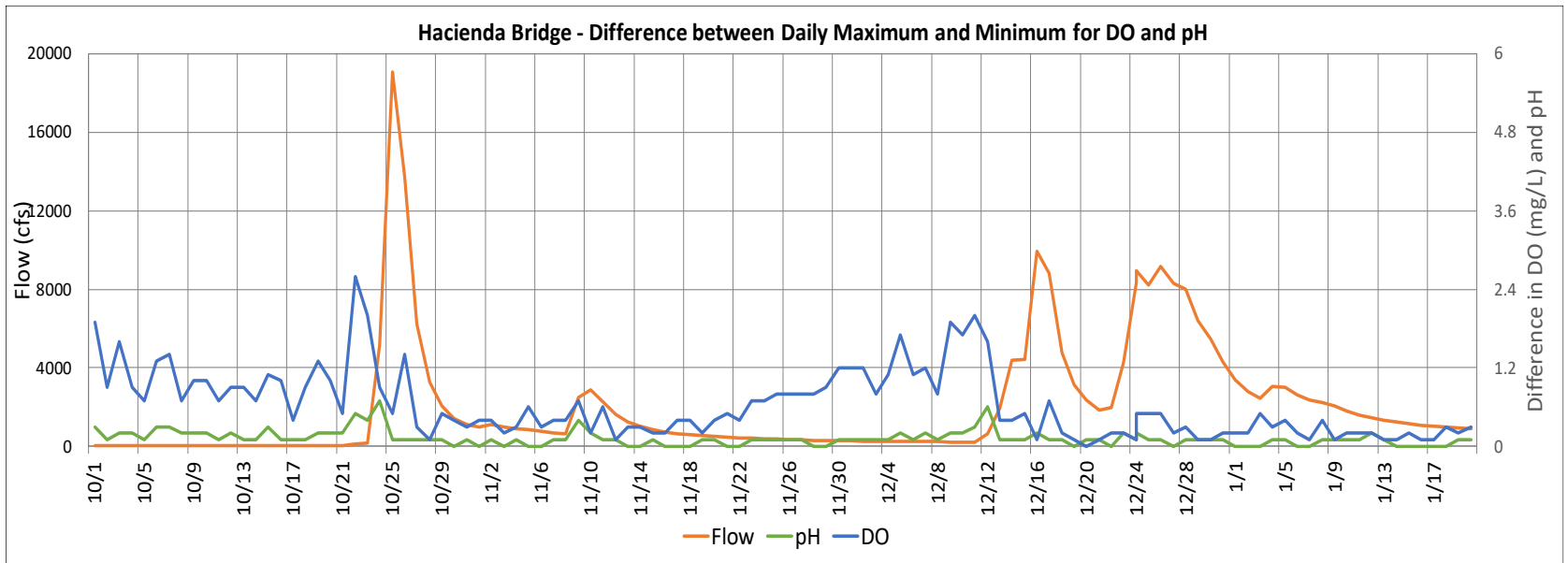
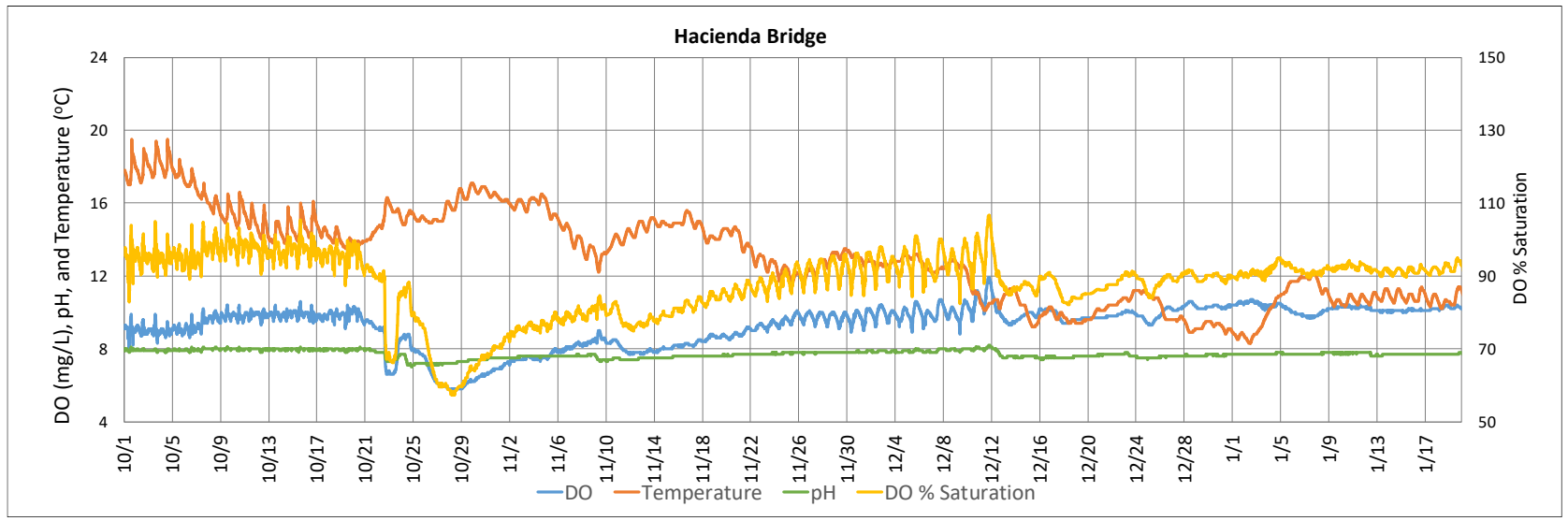
Russian River Water Quality (October 1, 2021 - January 20, 2022)

Digger Bend



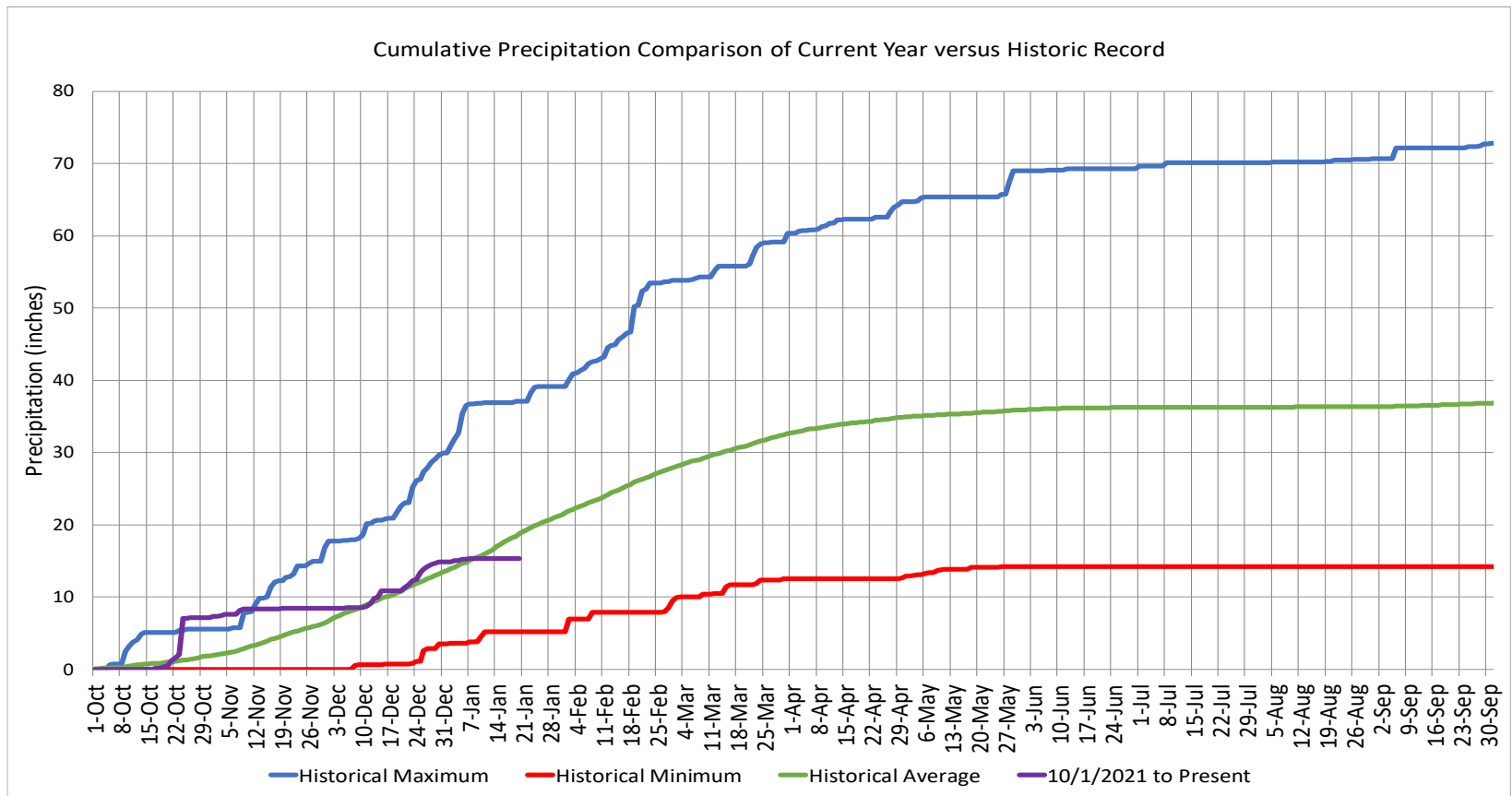
Russian River Water Quality (October 1, 2021 - January 20, 2022)

Hacienda Bridge



Precipitation

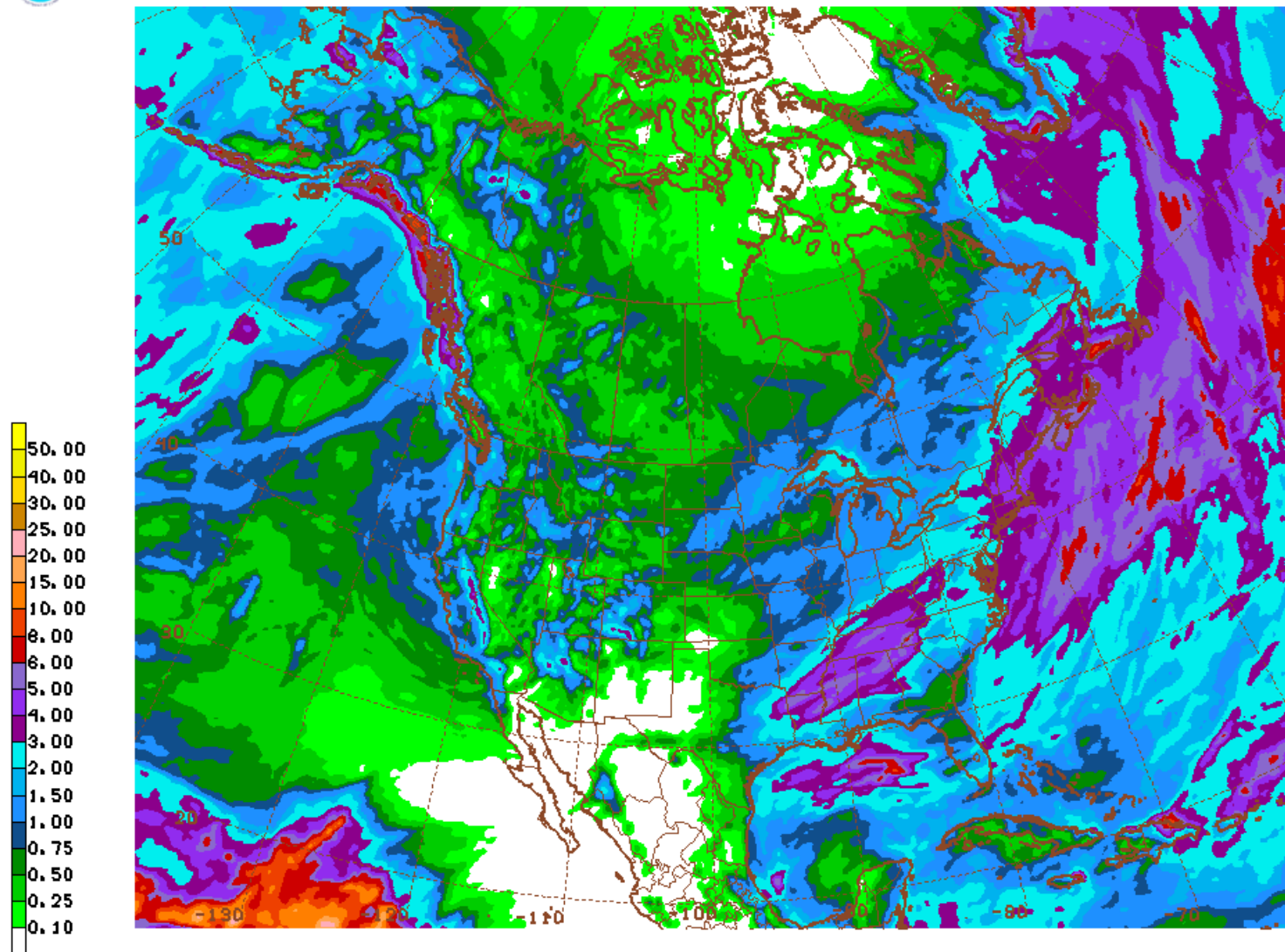
Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2021 - Jan 20, 2022	15.37
Last 7 Days*	0.00



Global Forecast System Model 16-day Cumulative Precipitation Forecast



GFS 01/24/22 12UTC 384HR FCST VALID MED 02/09/22 12UTC NOAA/NWS/NCEP



GFS MED 220209/1200Y384 384HR ACCUMULATED PRECIP (IN)

Date Range
Jan 24 - Feb 9, 2022

Forecasted Cumulative (inches)
2.1