



Sonoma Water

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

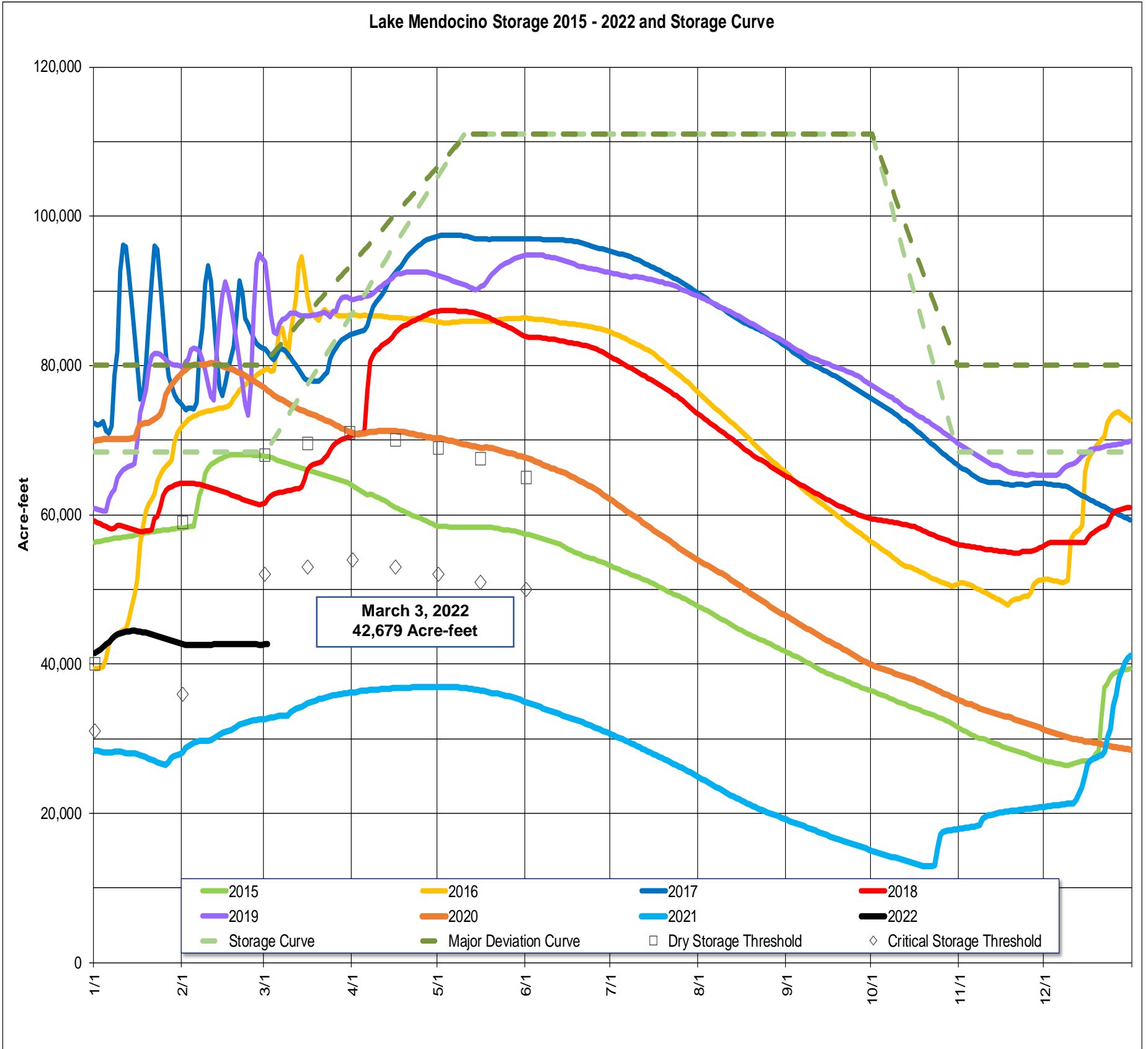
Instream Flow Requirements as of March 3, 2022

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

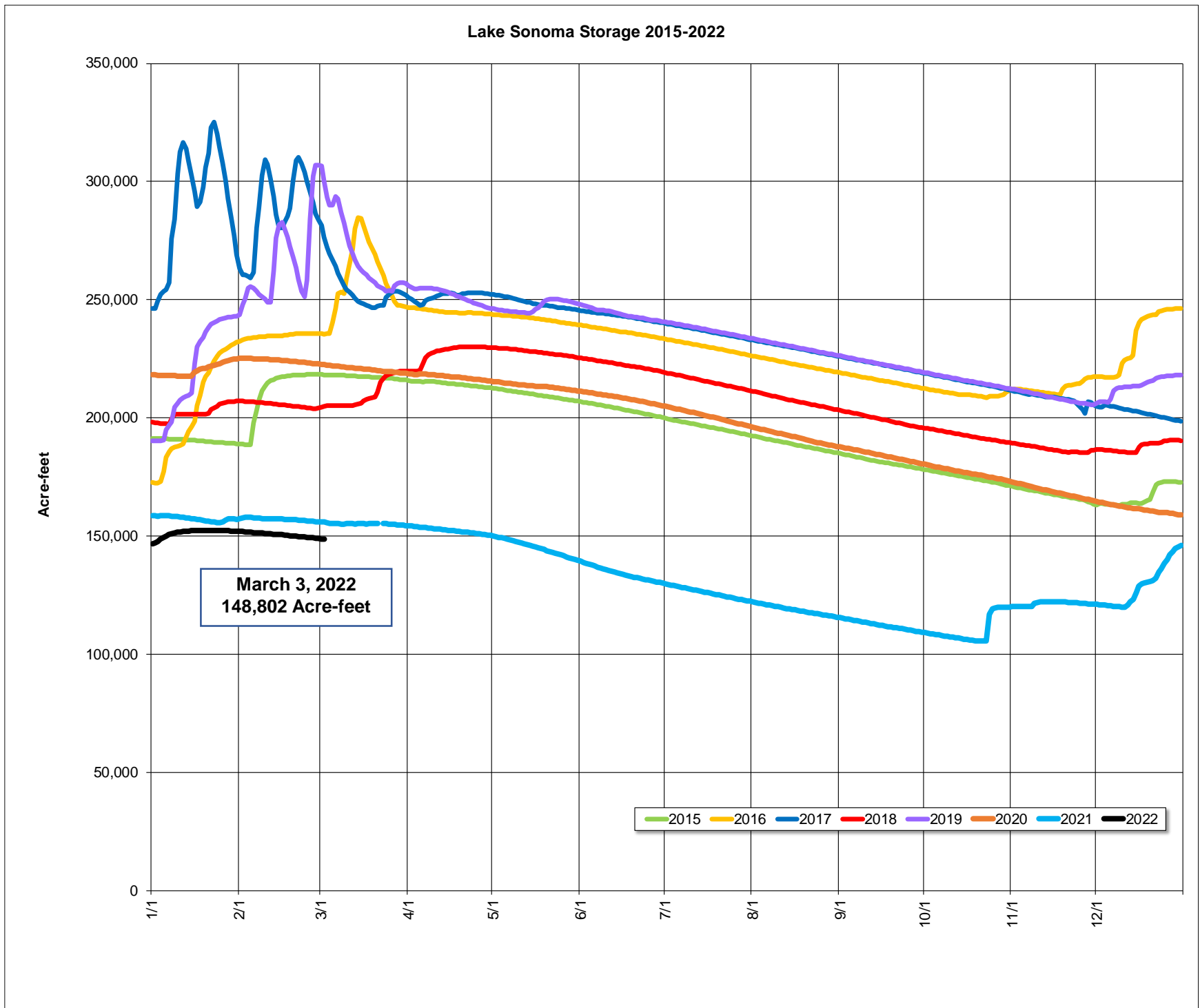


Storage (acre-feet)	March 3, 2022	42,679	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	128	4
	Last 7 days	14	2
Daily Inflow (cfs)	Last 7 days	Min	56
		Max	65
		Mean	60
Release (cfs)	Last 7 days	Min	31
		Max	75
		Mean	55

Lake Sonoma



Nathan Baskett, March 3, 2011



Storage (acre-feet)	March 3, 2022	148,802	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	-3,210	-107
	Last 7 days	-680	-97
Daily Inflow (cfs)	Last 7 days	Min	13
		Max	34
		Mean	22
Release (cfs)	Last 7 days	Min	77
		Max	78
		Mean	77

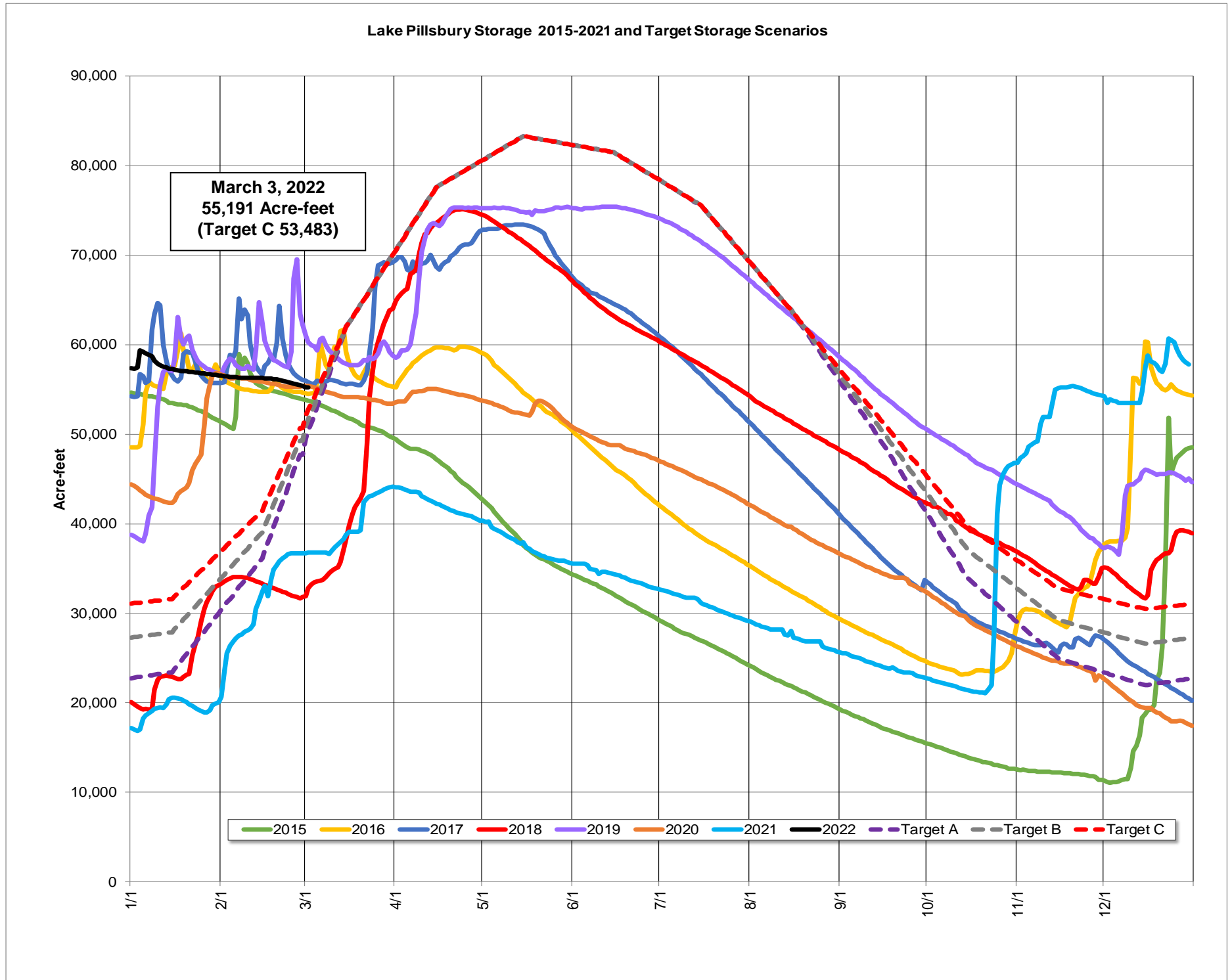
Potter Valley Project

PVP Diversion (cfs)	March 3, 2022	45
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Lake Pillsbury

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2021 - March 3, 2022	183,731	1201
	Last 7 days	1,863	266

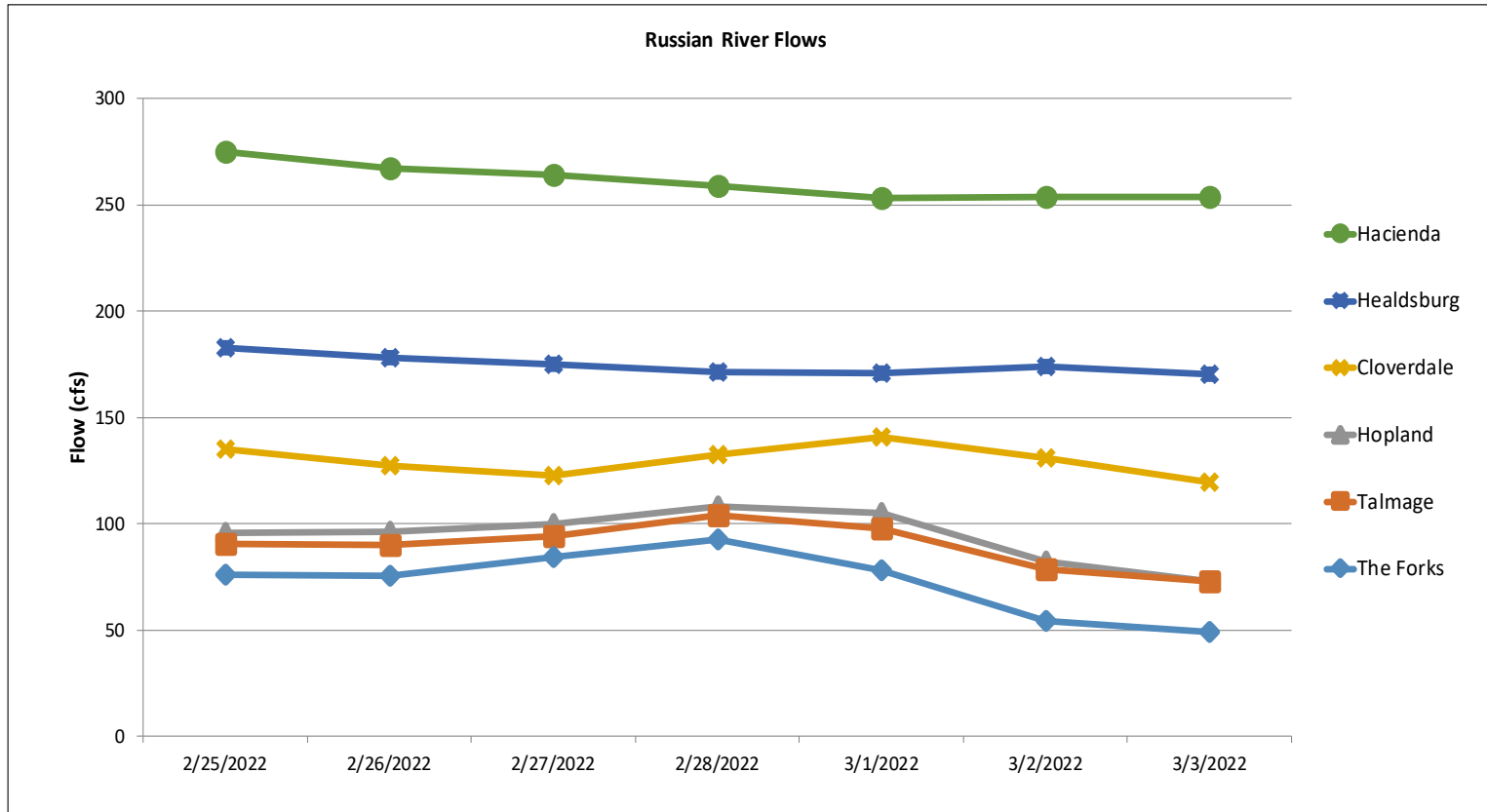
*Inflow calculation based on criteria established in D1610



Russian River Flows (February 25, 2022 - March 3, 2022)

Gage	24-hr Average Flow (cfs)						
	Feb 25, 2022	Feb 26, 2022	Feb 27, 2022	Feb 28, 2022	Mar 1, 2022	Mar 2, 2022	Mar 3, 2022
The Forks*	76	75	85	93	78	54	49
Talmage USGS 11462080	91	90	94	104	98	79	73
Hopland USGS 11462500	96	97	100	108	105	82	73
Cloverdale USGS 11463000	135	127	123	132	141	131	120
Healdsburg USGS 11464000	183	178	175	171	171	174	171
Hacienda USGS 11467000	275	267	264	259	253	254	254

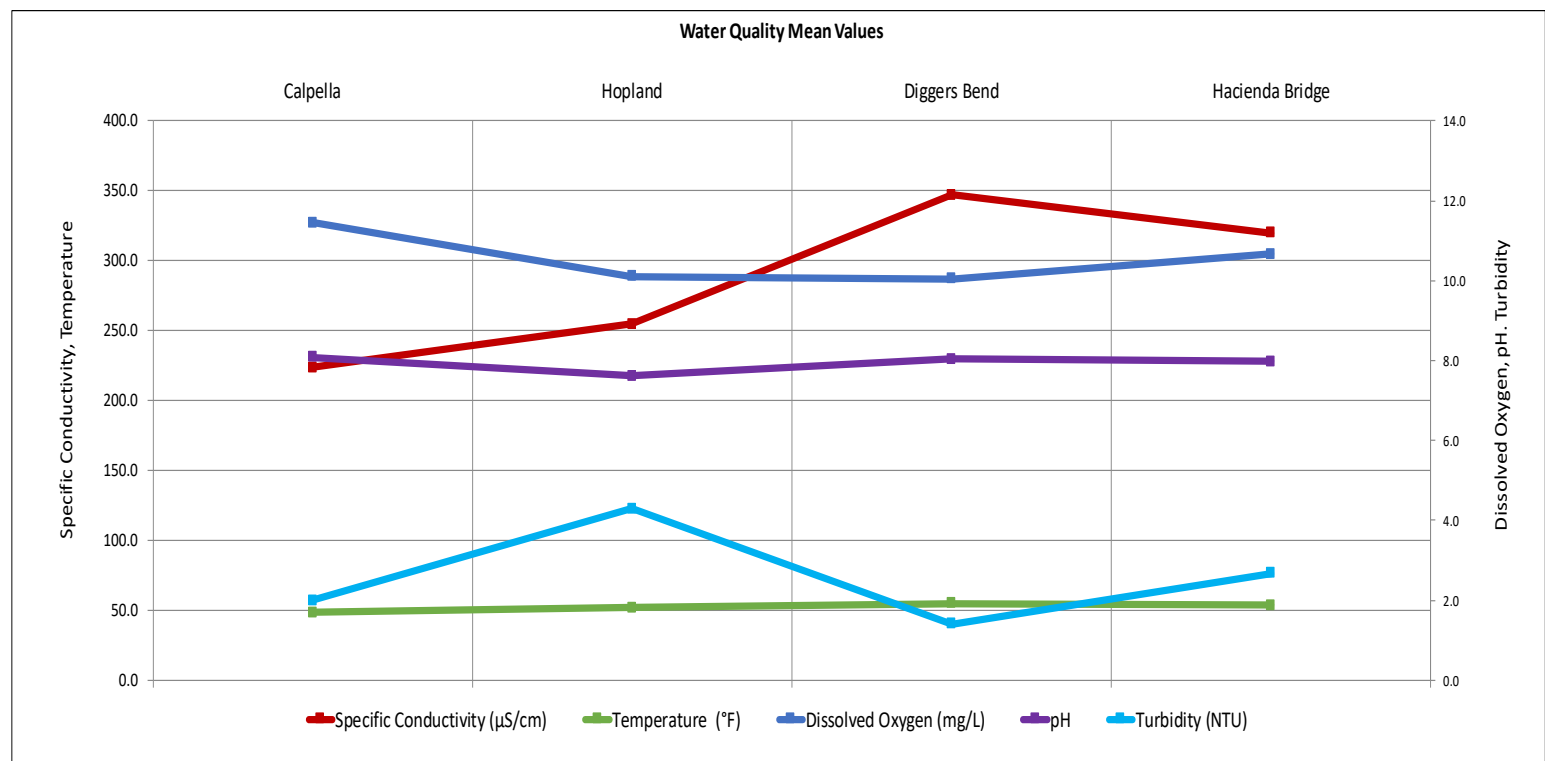
*West Fork (USGS 11461000) + East Fork (Coyote Valley Dam Release)



Russian River Water Quality (February 25, 2022 - March 3, 2022)

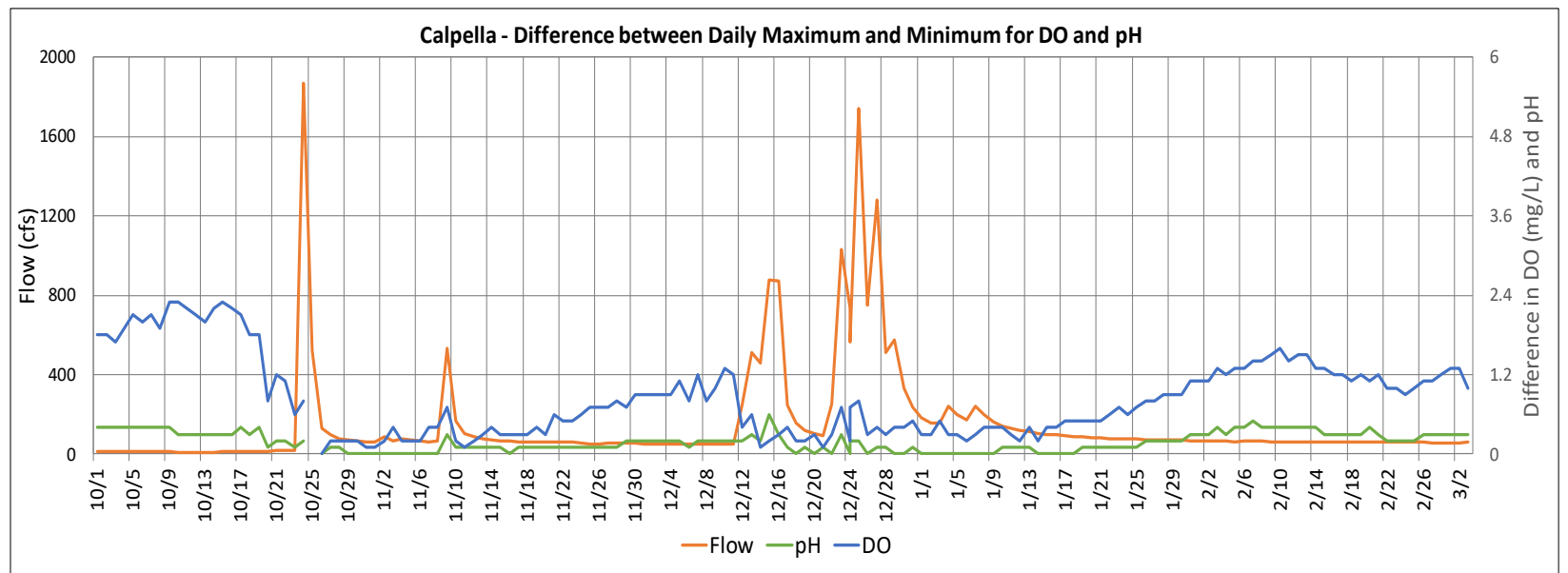
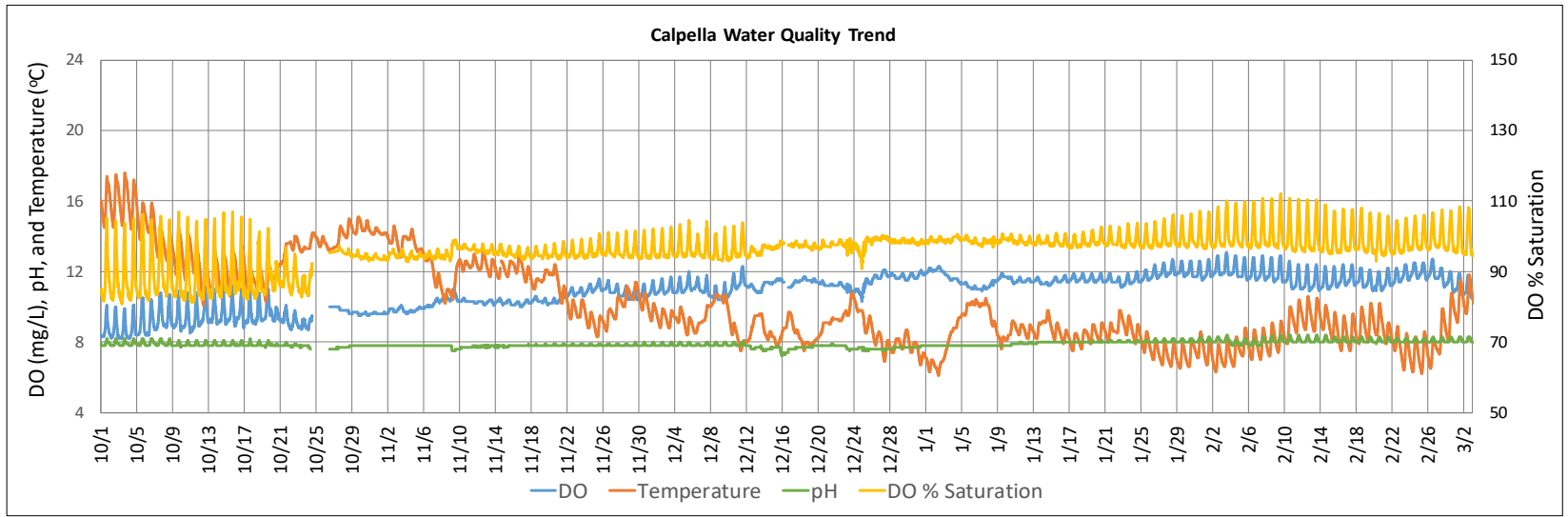
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463200	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	43.2	46.6			50.0		49.5	
	Max	53.2	56.1			60.3		58.3	
	Mean	48.4	51.7			54.8		53.7	
Specific Conductivity (µS/cm)	Min	221.0	245.0			343.0		318.0	
	Max	227.0	272.0			350.0		322.0	
	Mean	223.6	254.6			346.9		319.8	
Dissolved Oxygen (mg/L)	Min	10.5	8.9			8.8		9.2	
	Max	12.7	11.4			11.4		12.0	
	Mean	11.4	10.1			10.0		10.7	
Dissolved Oxygen (% Saturation)	Min	94.3	82.2			84.4		88.6	
	Max	108.4	104.4			107.7		109.0	
	Mean	99.2	91.6			94.5		99.0	
pH	Min	8.0	7.5			7.9		7.9	
	Max	8.3	7.8			8.2		8.1	
	Mean	8.1	7.6			8.0		8.0	
Turbidity (NTU)	Min	1.5	2.9			0.8		2.1	
	Max	2.9	7.0			2.4		3.5	
	Mean	2.0	4.3			1.4		2.7	

*Station operated seasonally



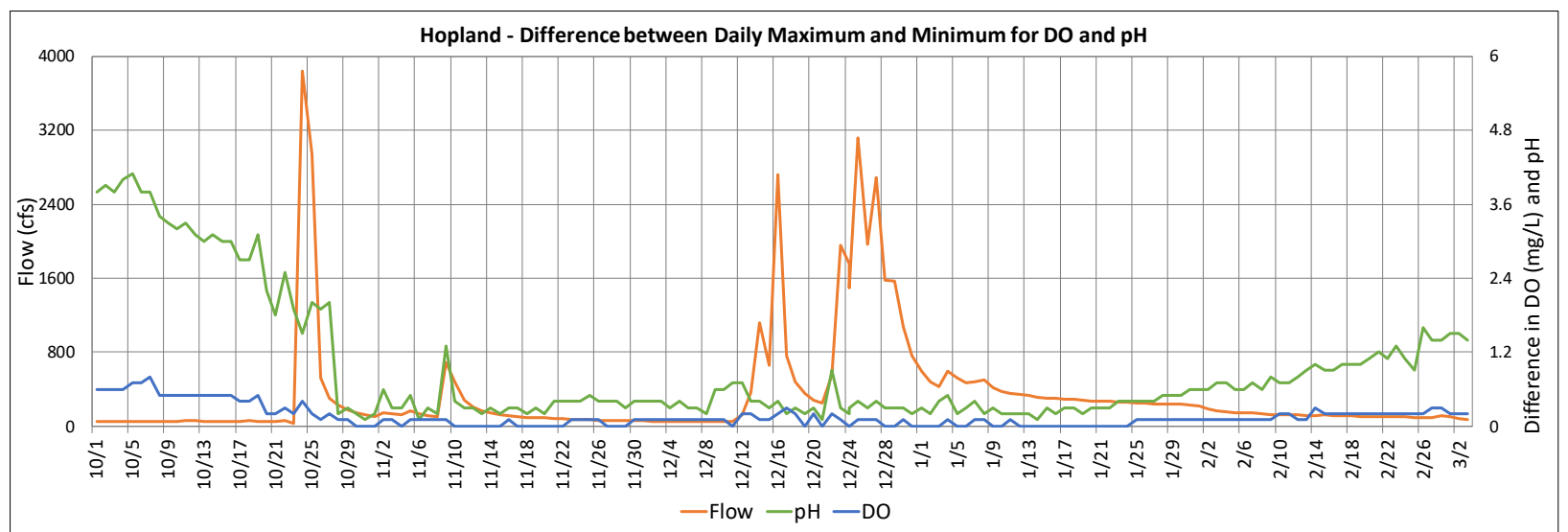
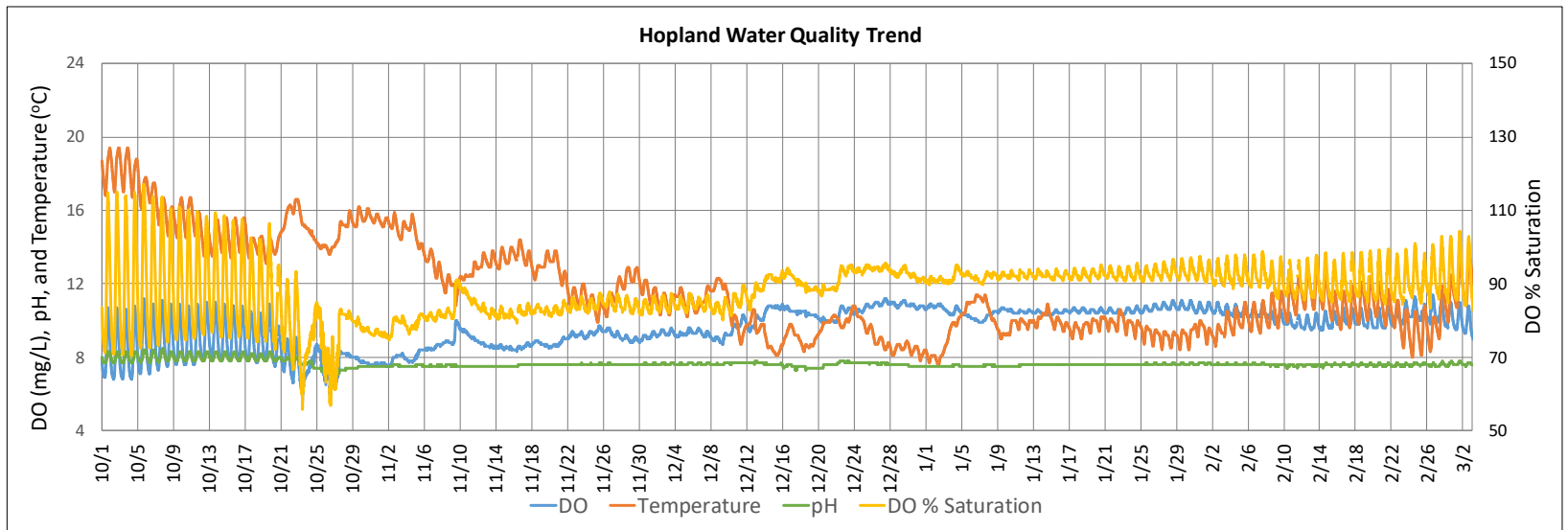
Russian River Water Quality (October 1, 2021 - March 3, 2022)

Calpella (East Fork Russian River)



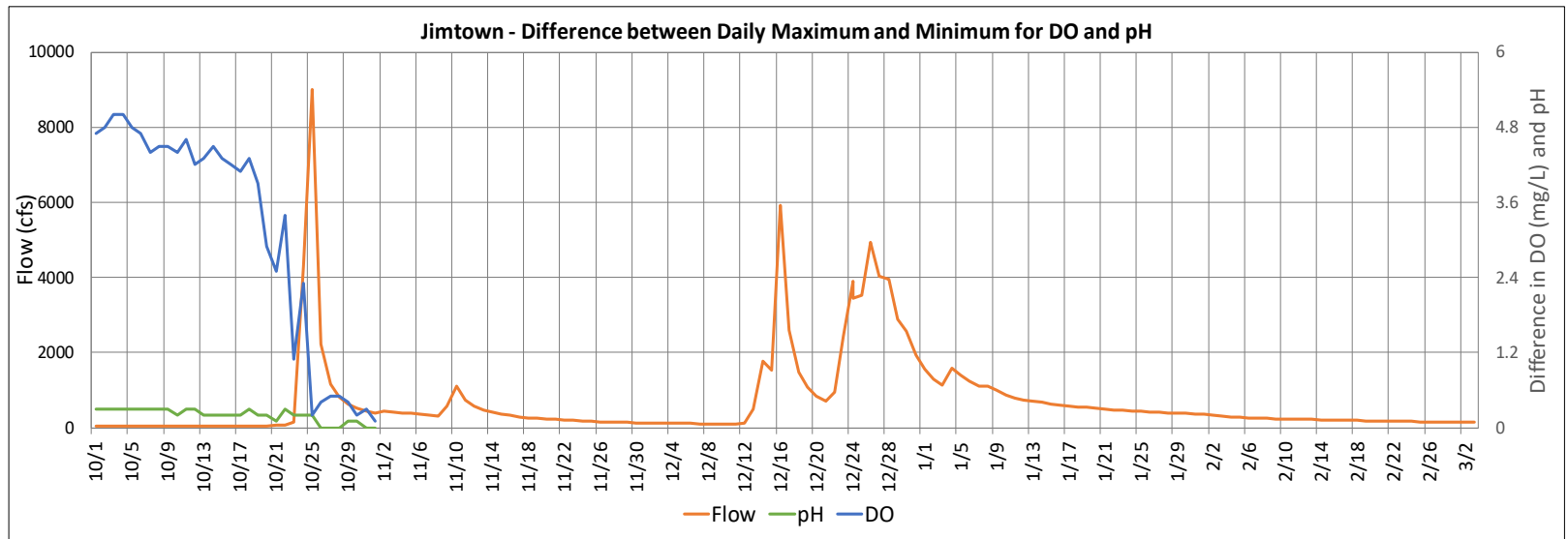
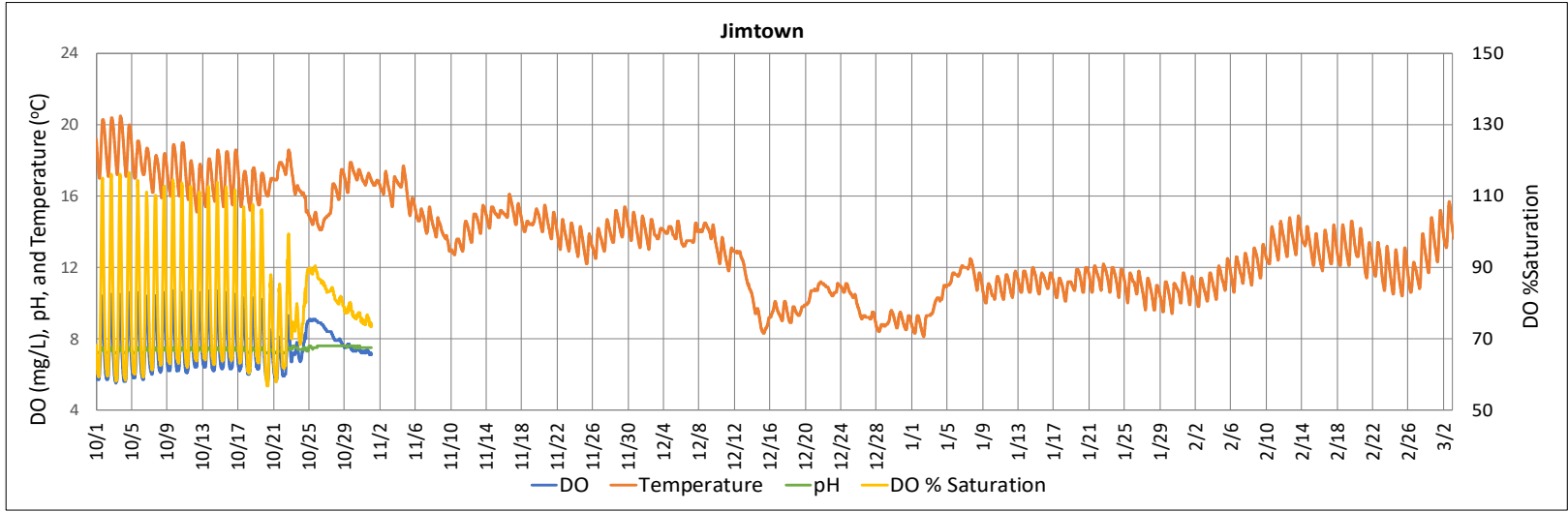
Russian River Water Quality (October 1, 2021 - March 3, 2022)

Hopland



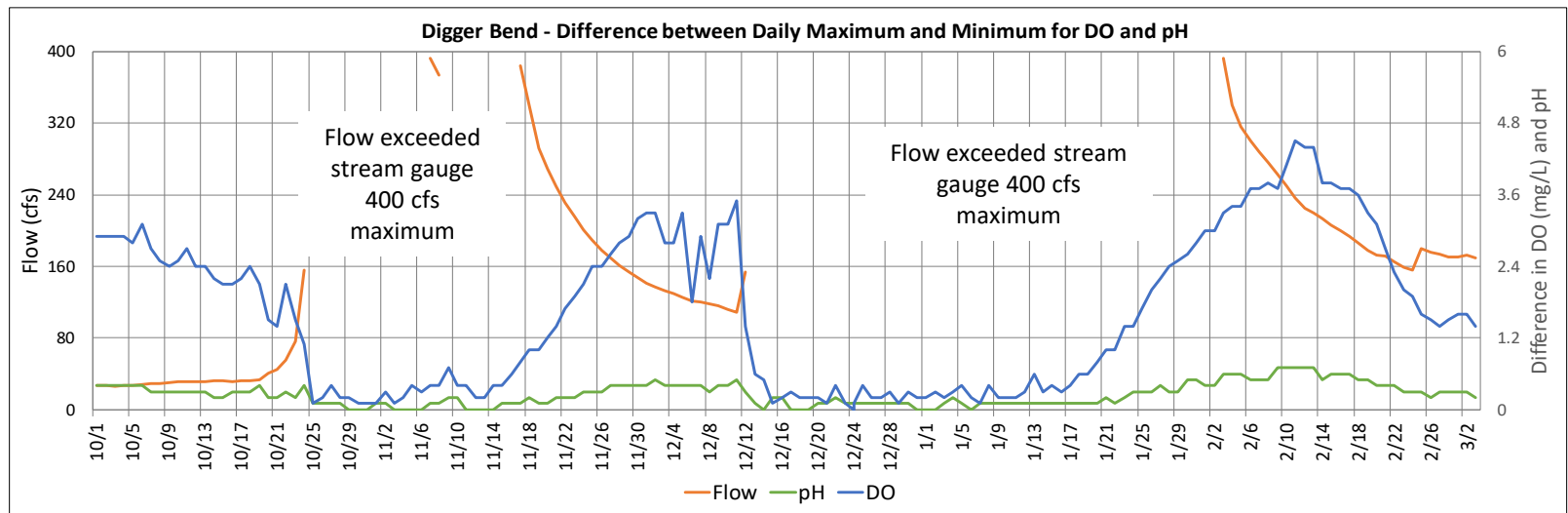
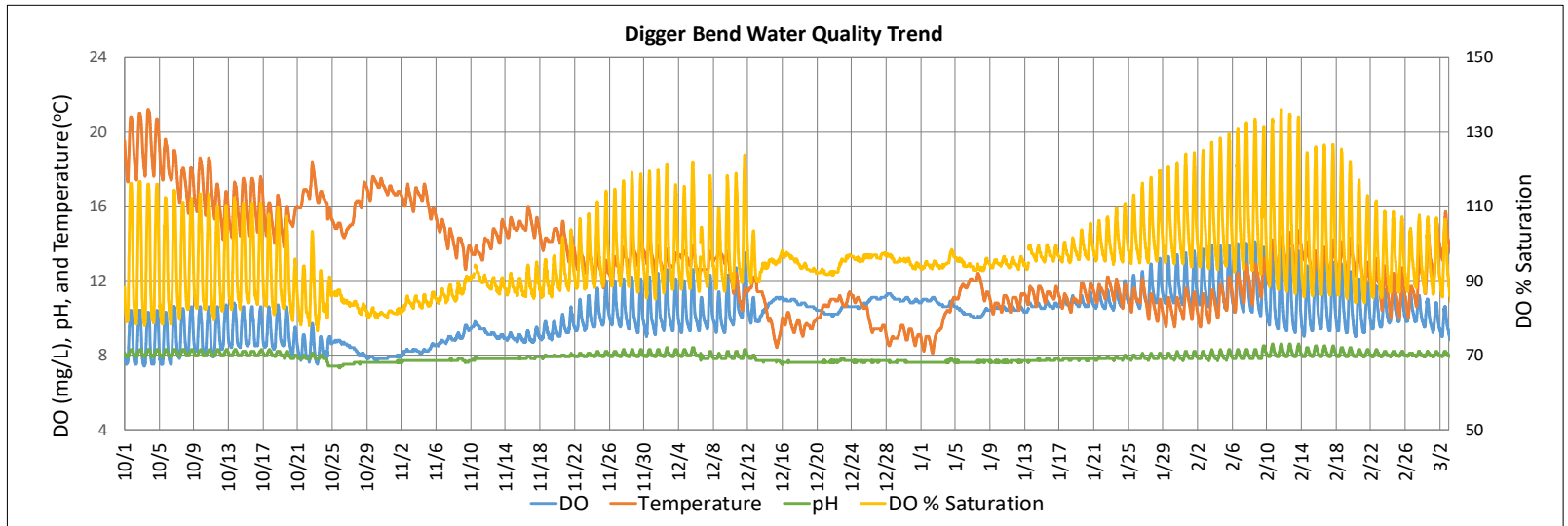
Russian River Water Quality (October 1, 2021 - March 3, 2022)

Jimtown



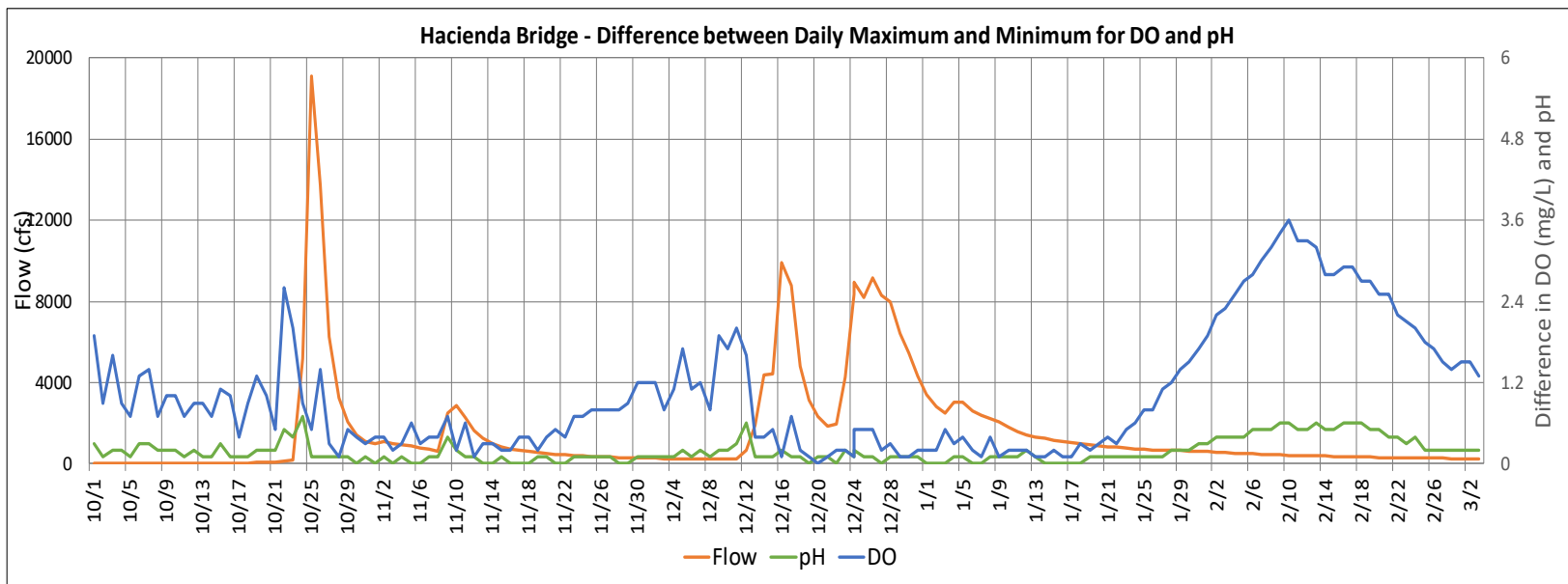
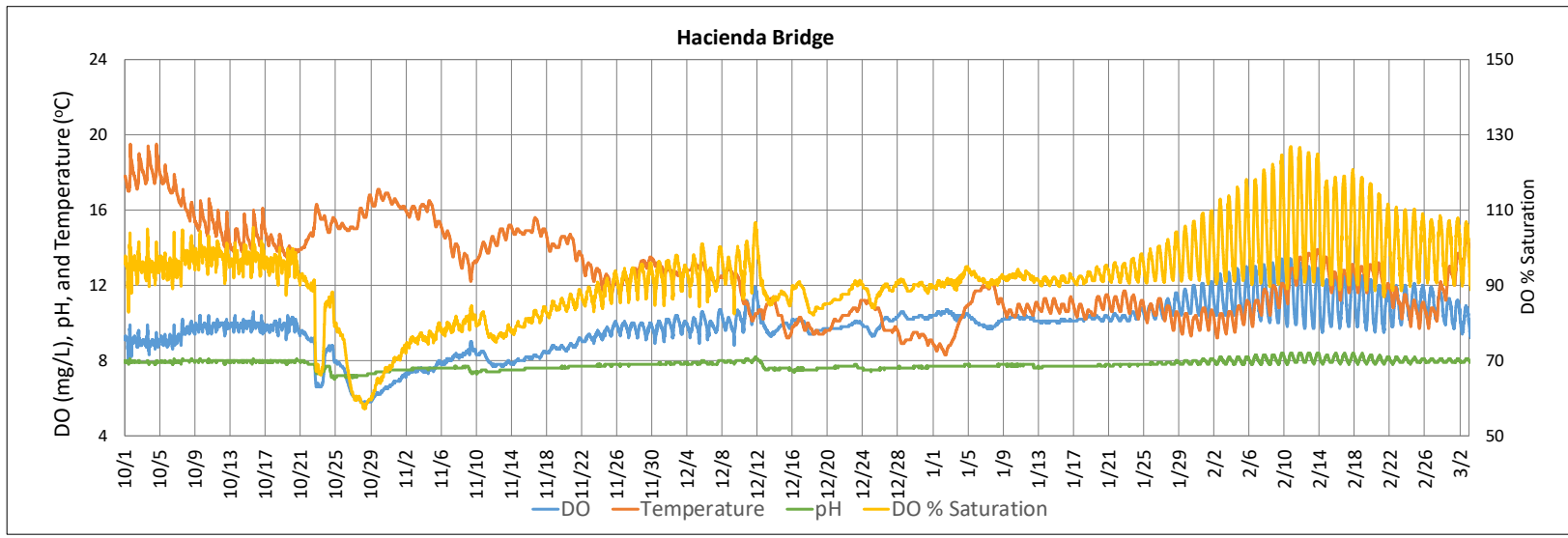
Russian River Water Quality (October 1, 2021 - March 3, 2022)

Digger Bend



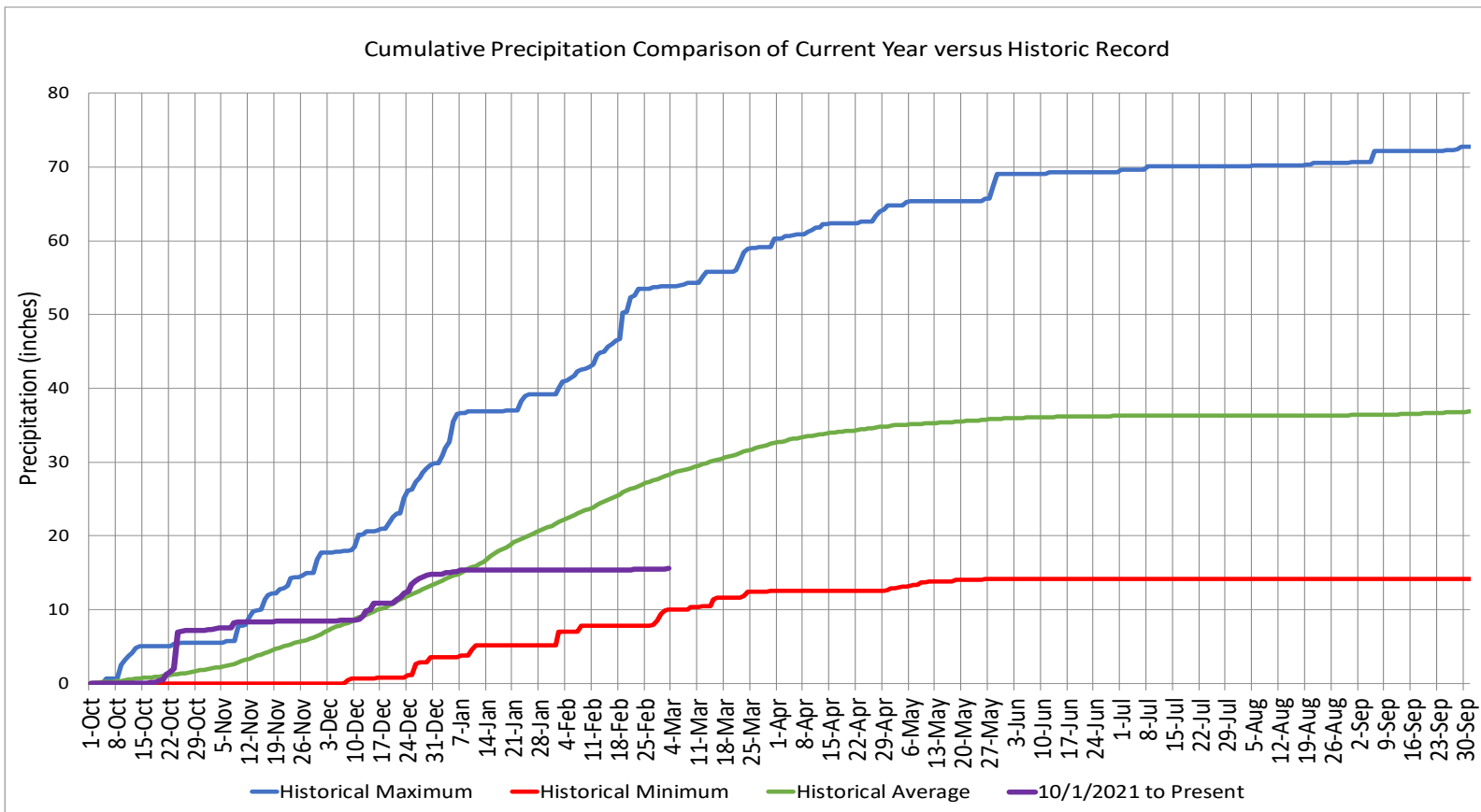
Russian River Water Quality (October 1, 2021 - March 3, 2022)

Hacienda Bridge



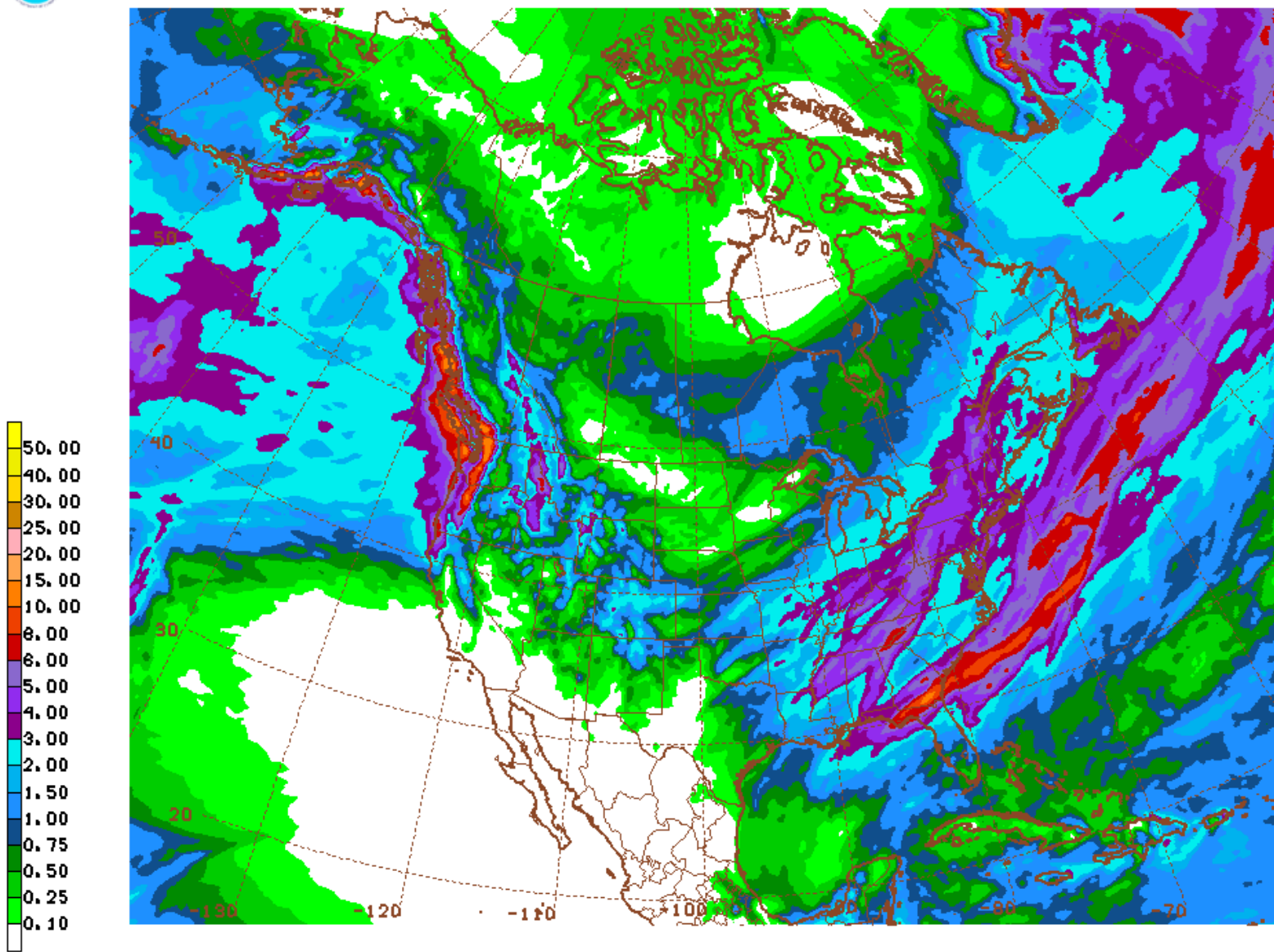
Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2021 - Mar 3, 2022	15.59
Last 7 Days*	0.12



Global Forecast System Model 16-day Cumulative Precipitation Forecast

GFS 03/07/22 12UTC 384HR FCST VALID WED 03/23/22 12UTC NOAA/NWS/NCEP



GFS WED 220323/1200Y384 384HR ACCUMULATED PRECIP (IN)

Date Range	Forecasted Cumulative (inches)
Mar 7 - Mar 23, 2022	0.7