



Sonoma Water

**State Water Resources Control Board
 Temporary Urgency Change Order (12/11/2021)
 Russian River Hydrologic Report
 March 11, 2022 - March 17, 2022**

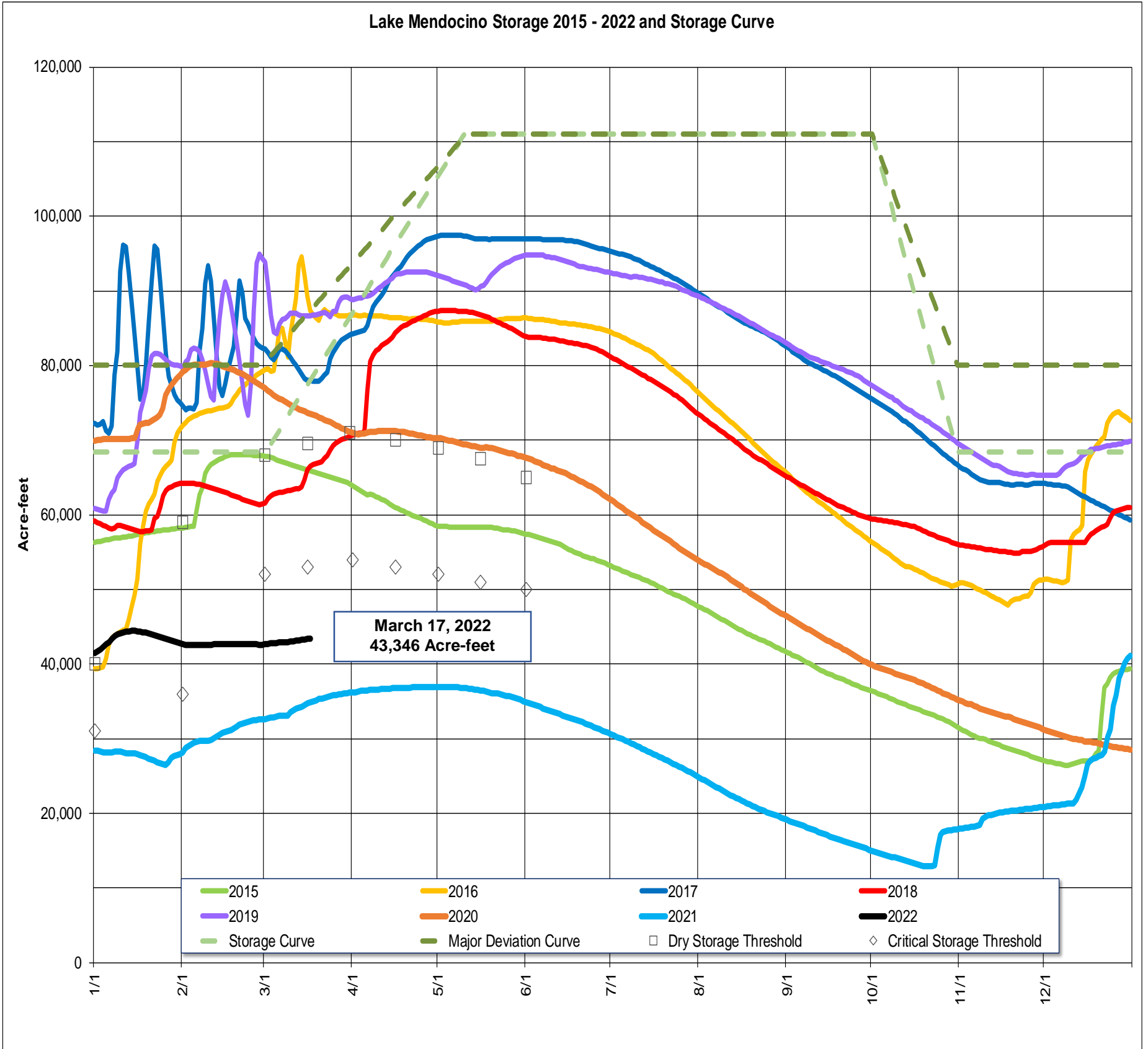
Prepared as a requirement of the Order approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A, 12949, 12950, and 16596 (Applications 12919A, 15736, 15737, and 19351).

Instream Flow Requirements as of March 17, 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

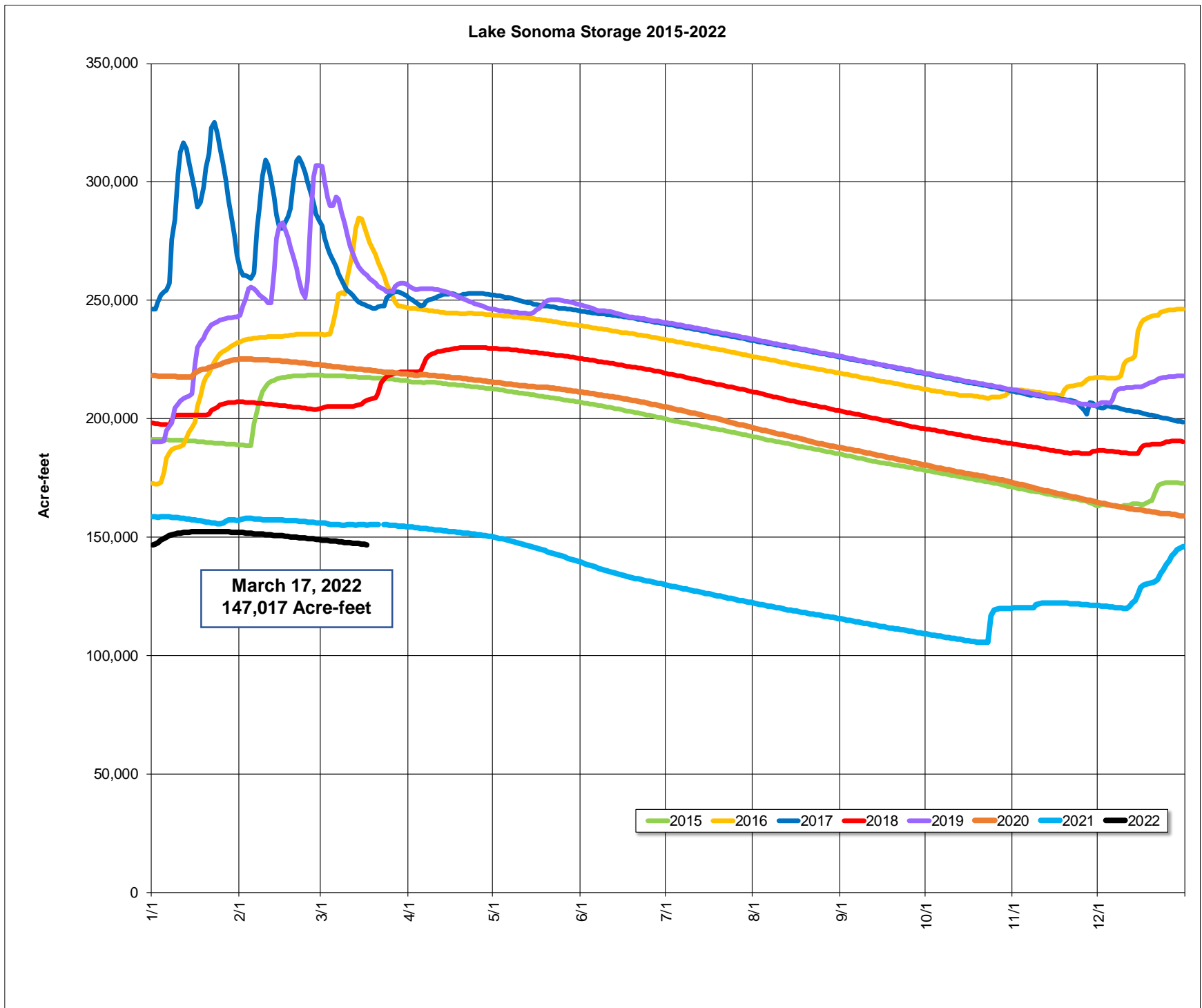


Storage (acre-feet)	March 17, 2022	43,346	
Change in Storage (acre-feet)	Last 30 days	Total	737
		Average Daily Rate	25
	Last 7 days	327	47
Daily Inflow (cfs)	Last 7 days	Min	43
		Max	72
		Mean	64
Release (cfs)	Last 7 days	Min	29
		Max	30
		Mean	30

Lake Sonoma



Nathan Baskett, March 3, 2011



Storage (acre-feet)	March 17, 2022	147,017	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	-3,697	-123
	Last 7 days	-712	-102
Daily Inflow (cfs)	Last 7 days	Min	9
		Max	43
		Mean	21
Release (cfs)	Last 7 days	Min	77
		Max	78
		Mean	78

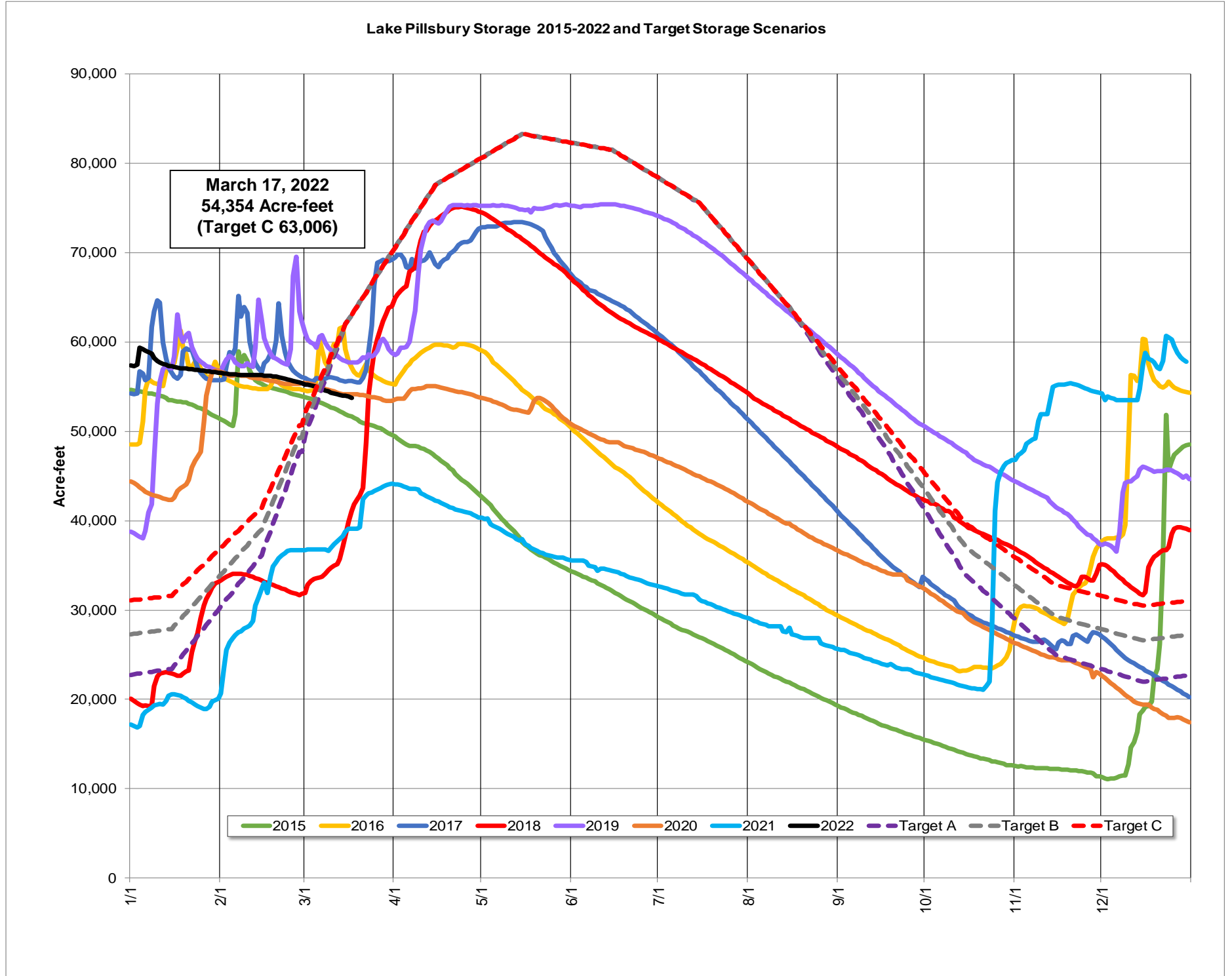
Potter Valley Project

PVP Diversion (cfs)	March 17, 2022	61
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Lake Pillsbury

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2021 - March 17, 2022	187,598	1123
	Last 7 days	1,658	237

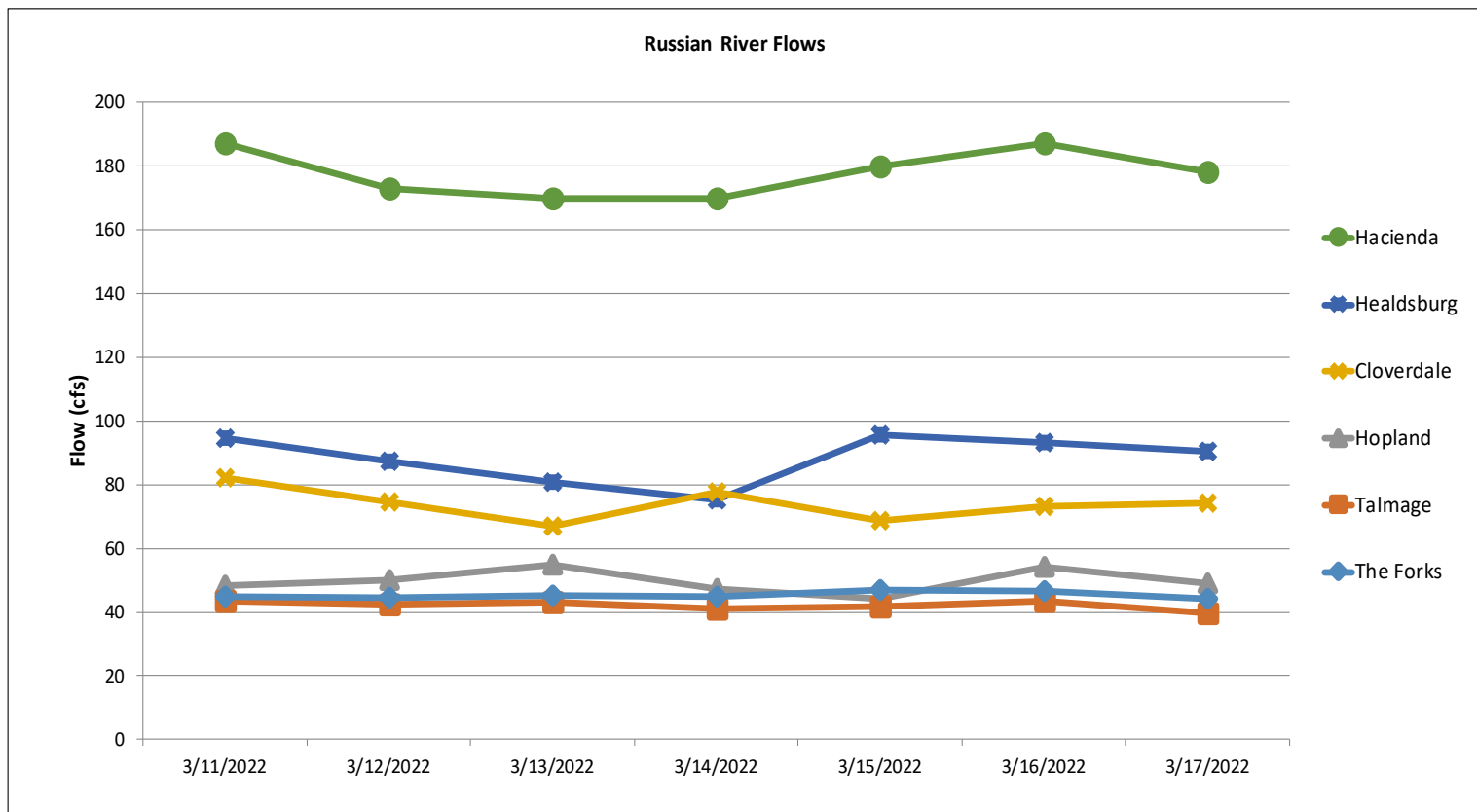
*Inflow calculation based on criteria established in D1610



Russian River Flows (March 11, 2022 - March 17, 2022)

Gage	24-hr Average Flow (cfs)						
	Mar 11, 2022	Mar 12, 2022	Mar 13, 2022	Mar 14, 2022	Mar 15, 2022	Mar 16, 2022	Mar 17, 2022
The Forks*	45	45	45	45	47	46	44
Talmage USGS 11462080	44	43	43	41	42	43	40
Hopland USGS 11462500	48	50	55	47	44	54	49
Cloverdale USGS 11463000	82	75	67	78	69	73	74
Healdsburg USGS 11464000	95	87	81	75	96	93	91
Hacienda USGS 11467000	187	173	170	170	180	187	178

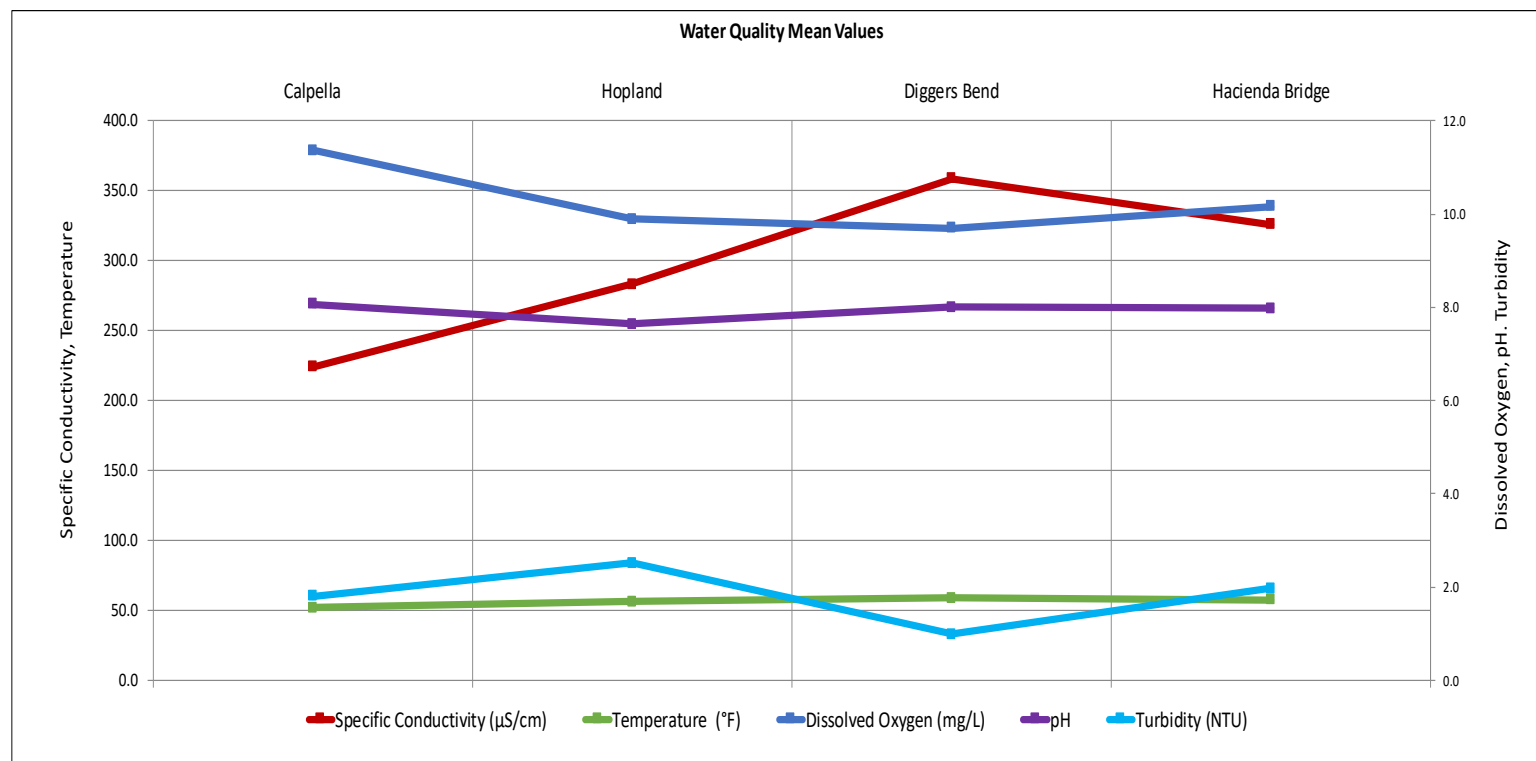
*West Fork (USGS 11461000) + East Fork (Coyote Valley Dam Release)



Russian River Water Quality (March 11, 2022 - March 17, 2022)

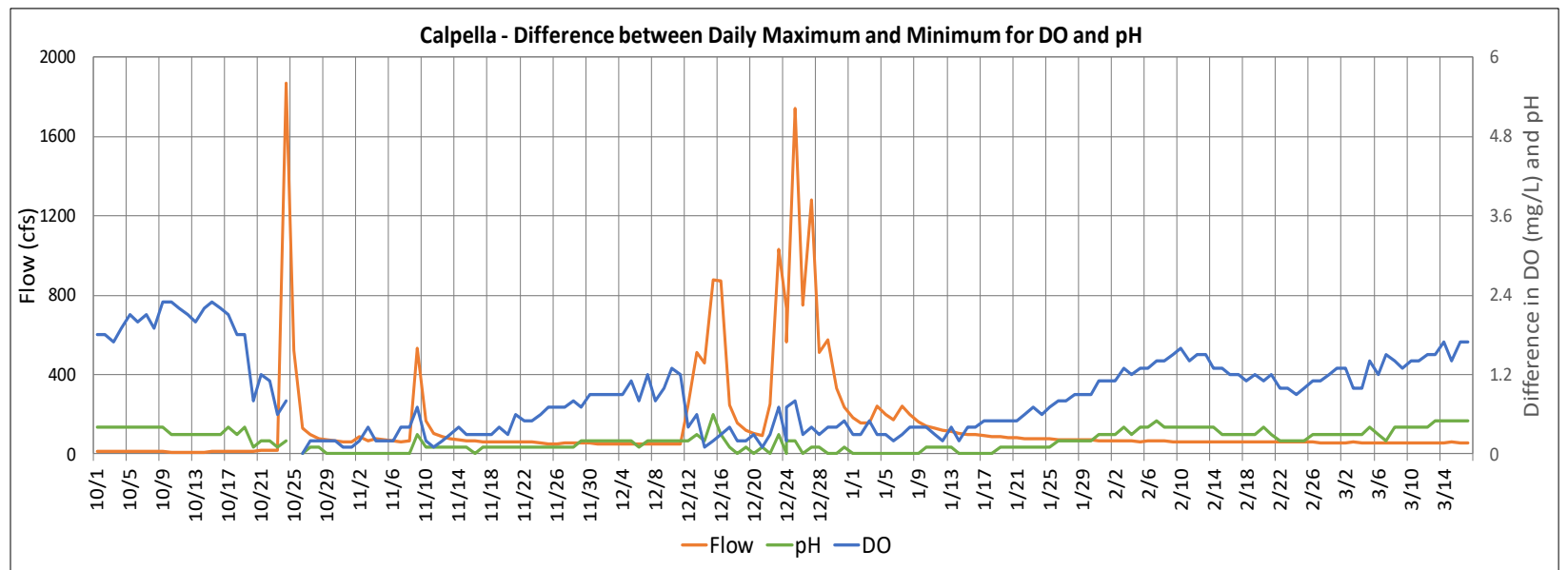
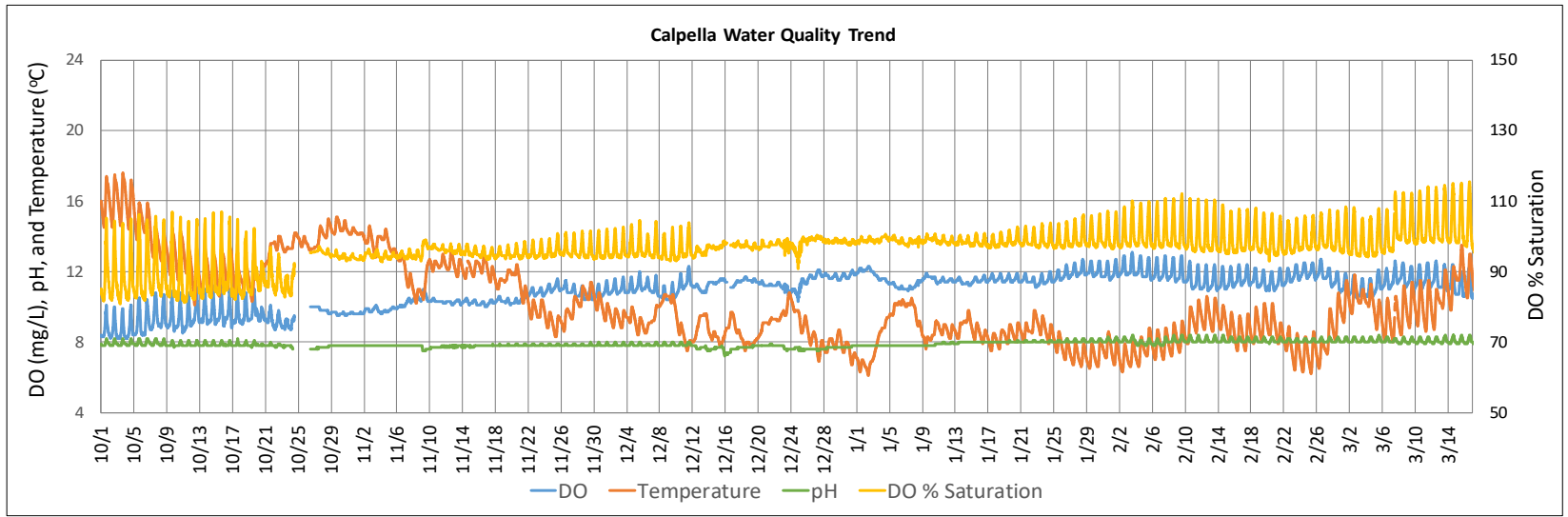
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463200	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	47.5	50.9			54.0		54.0	
	Max	56.3	59.4			63.5		60.4	
	Mean	52.0	55.9			58.8		57.5	
Specific Conductivity (µS/cm)	Min	220.0	279.0			357.0		319.0	
	Max	231.0	286.0			363.0		336.0	
	Mean	224.2	283.3			358.8		325.8	
Dissolved Oxygen (mg/L)	Min	10.5	8.4			8.7		9.0	
	Max	12.6	11.3			10.8		10.9	
	Mean	11.4	9.9			9.7		10.2	
Dissolved Oxygen (% Saturation)	Min	95.4	79.2			85.0		84.6	
	Max	115.8	110.3			110.4		106.3	
	Mean	103.3	94.5			96.1		98.9	
pH	Min	7.9	7.5			7.9		7.8	
	Max	8.4	7.8			8.1		8.1	
	Mean	8.1	7.6			8.0		8.0	
Turbidity (NTU)	Min	1.3	1.7			0.4		1.3	
	Max	3.0	3.8			2.0		3.0	
	Mean	1.8	2.5			1.0		2.0	

*Station operated seasonally



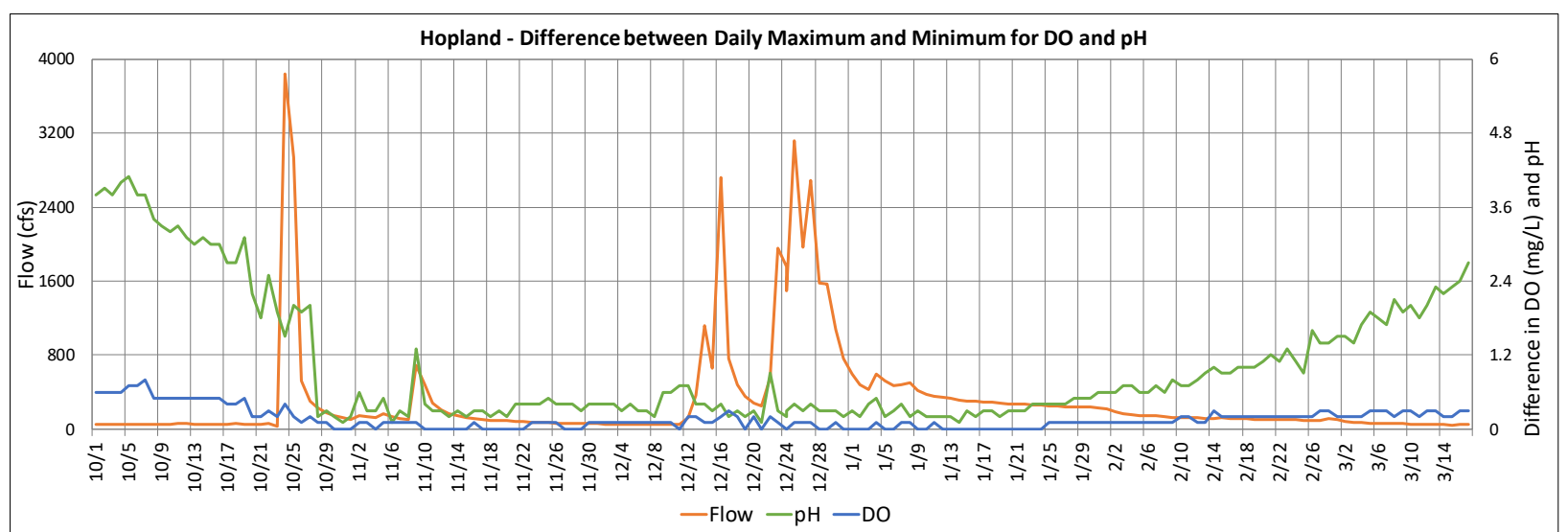
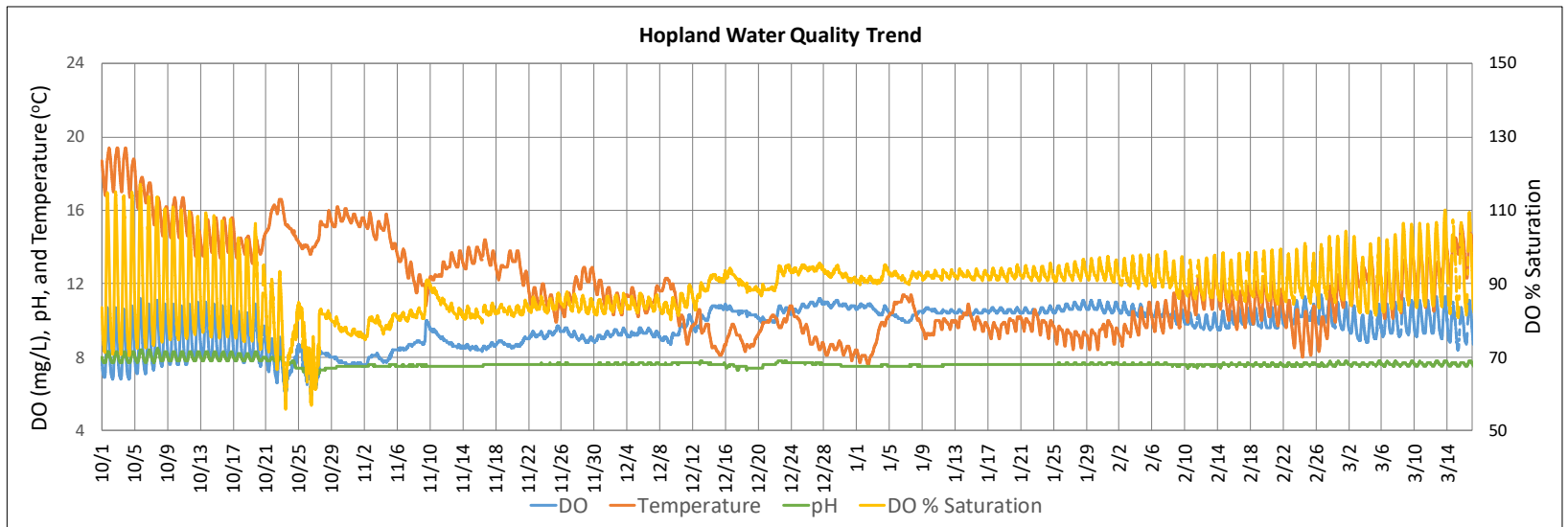
Russian River Water Quality (October 1, 2021 - March 17, 2022)

Calpella (East Fork Russian River)



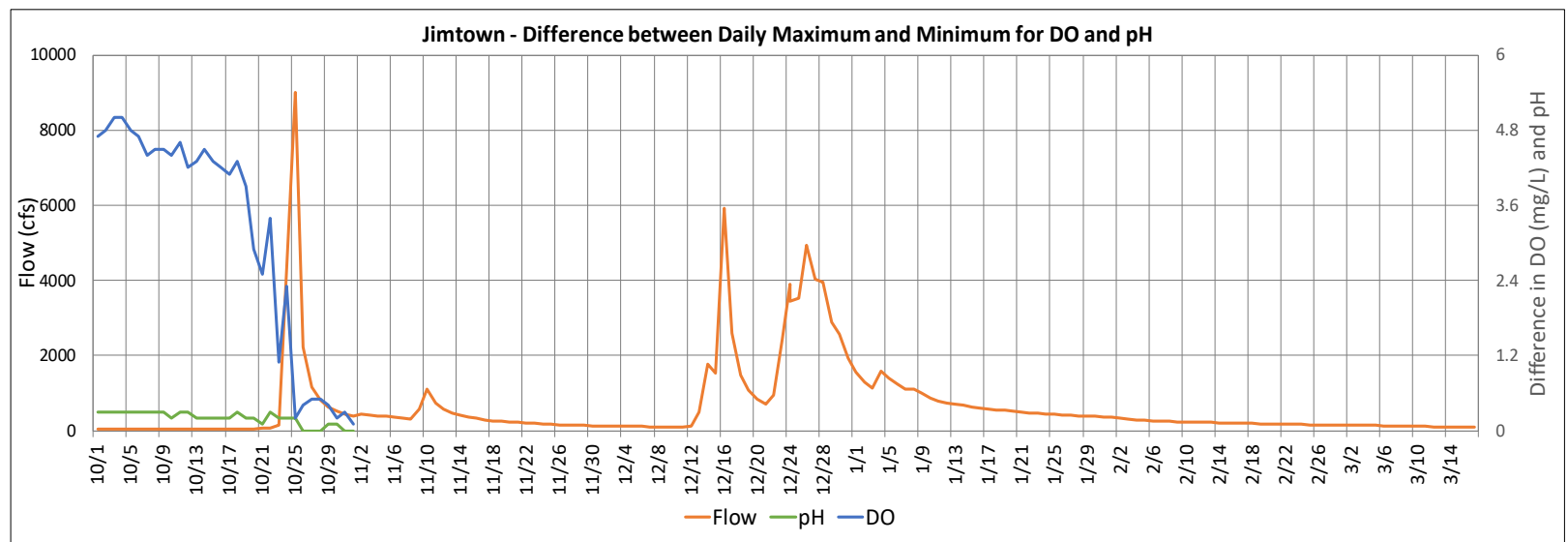
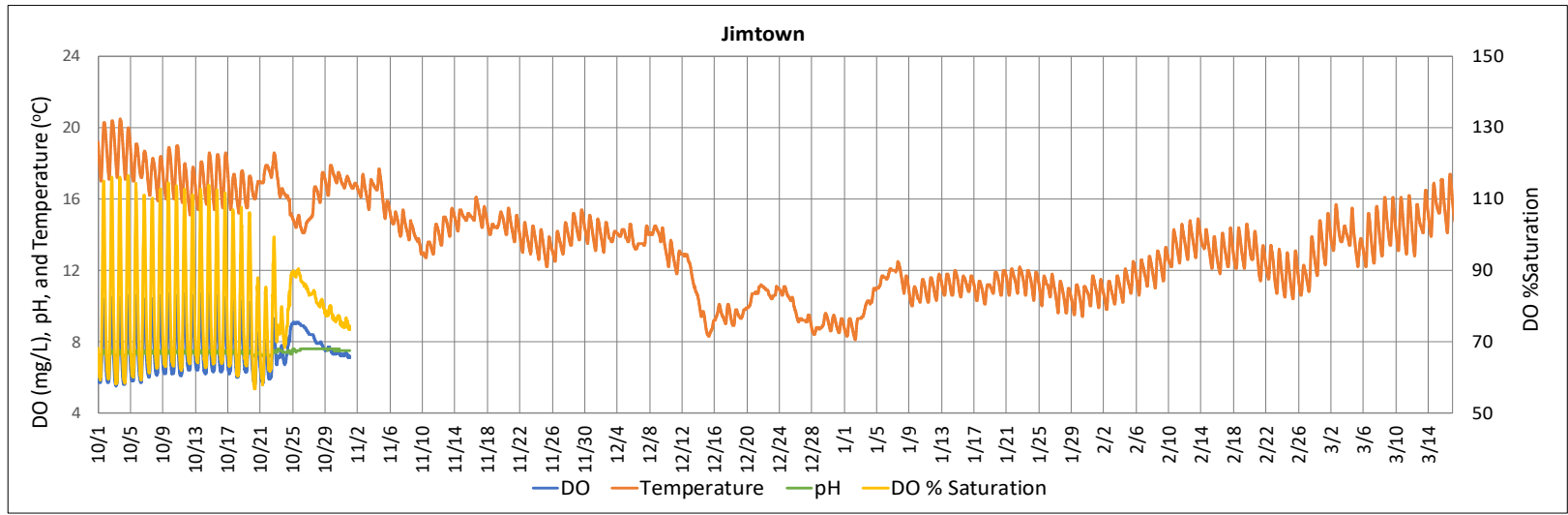
Russian River Water Quality (October 1, 2021 - March 17, 2022)

Hopland



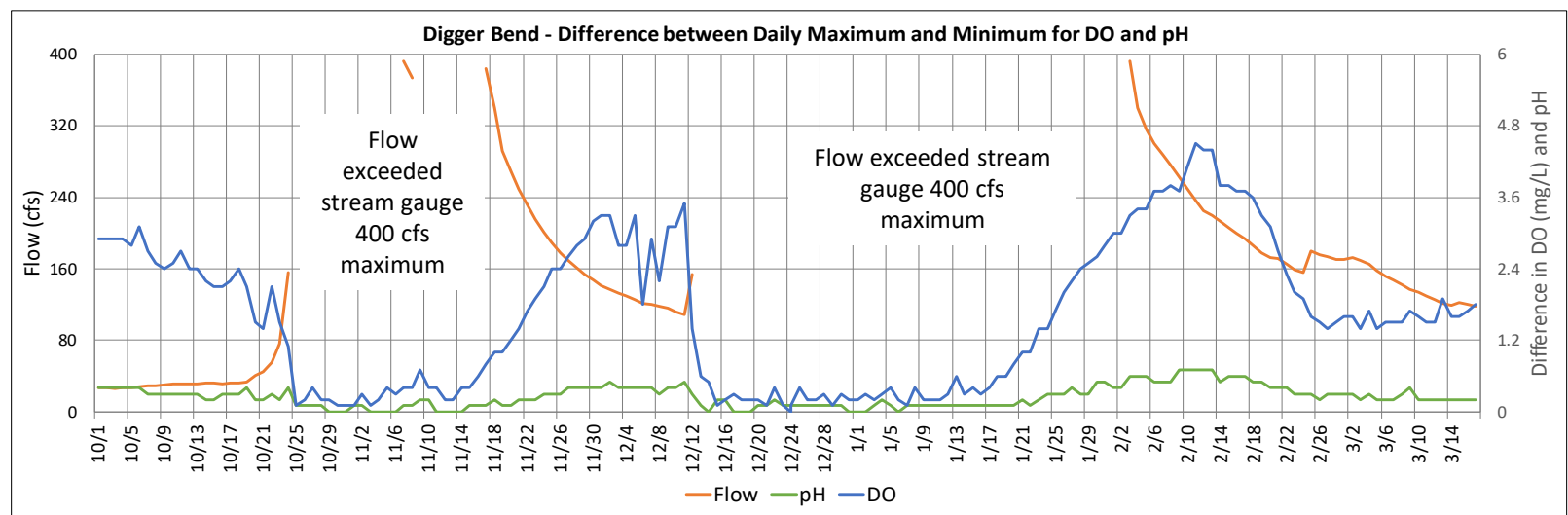
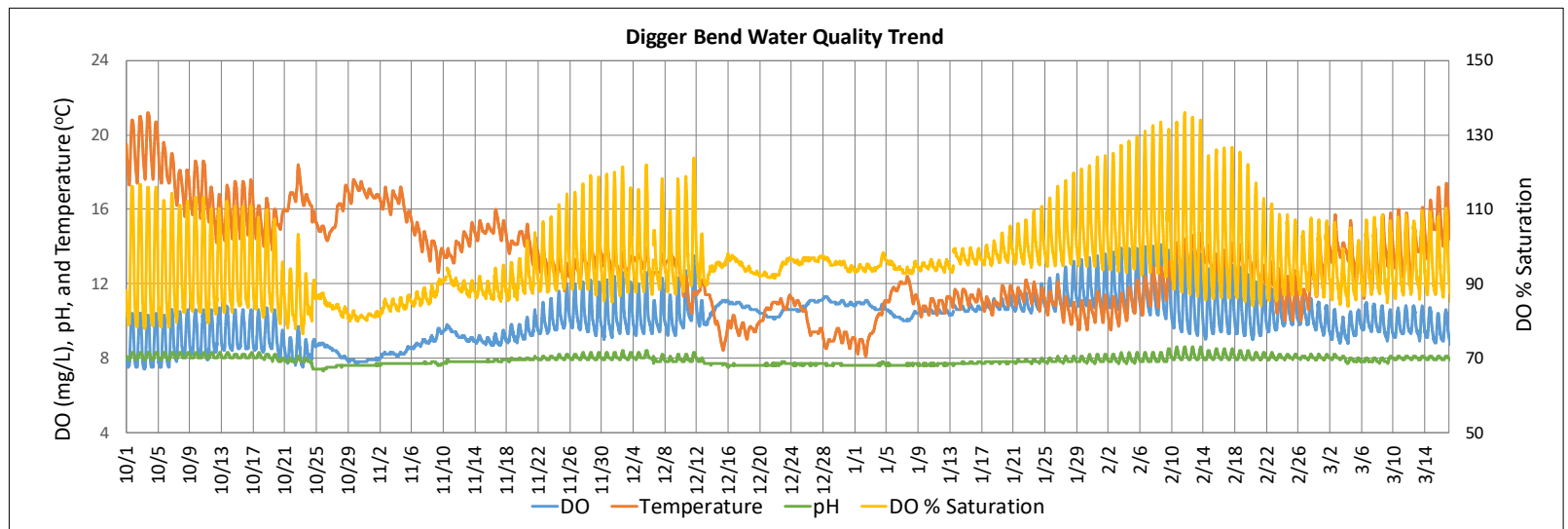
Russian River Water Quality (October 1, 2021 - March 17, 2022)

Jimtown



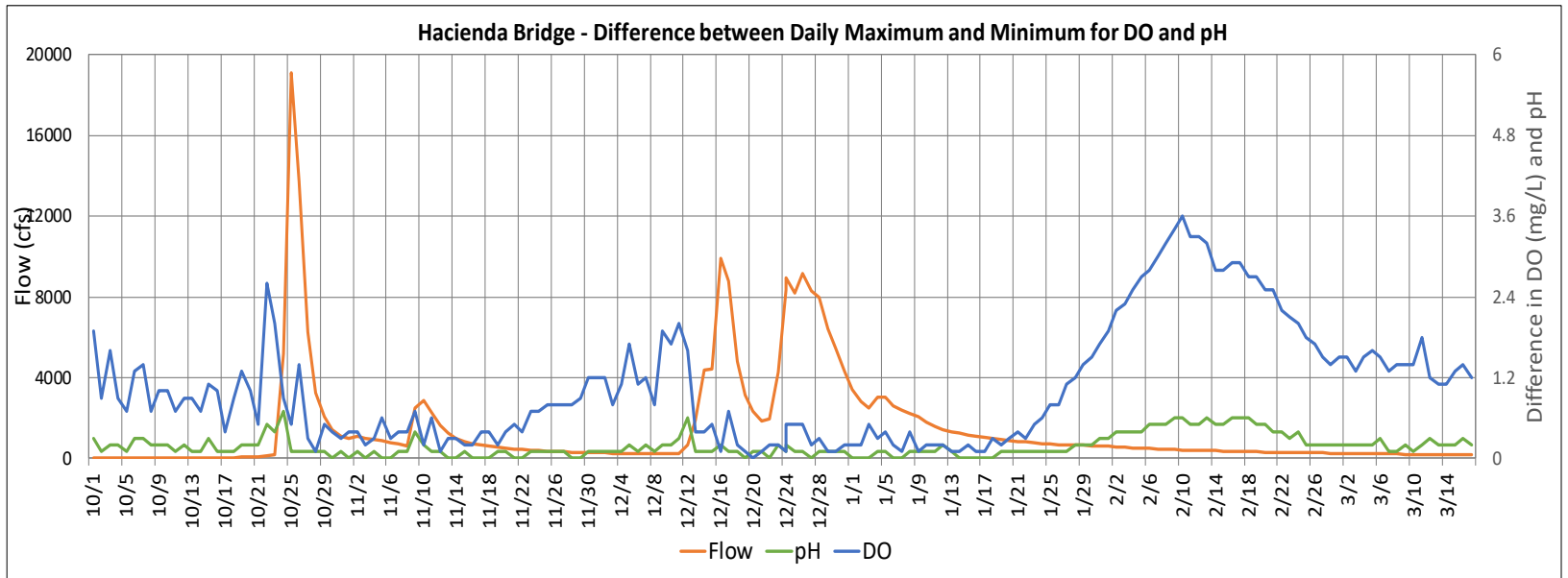
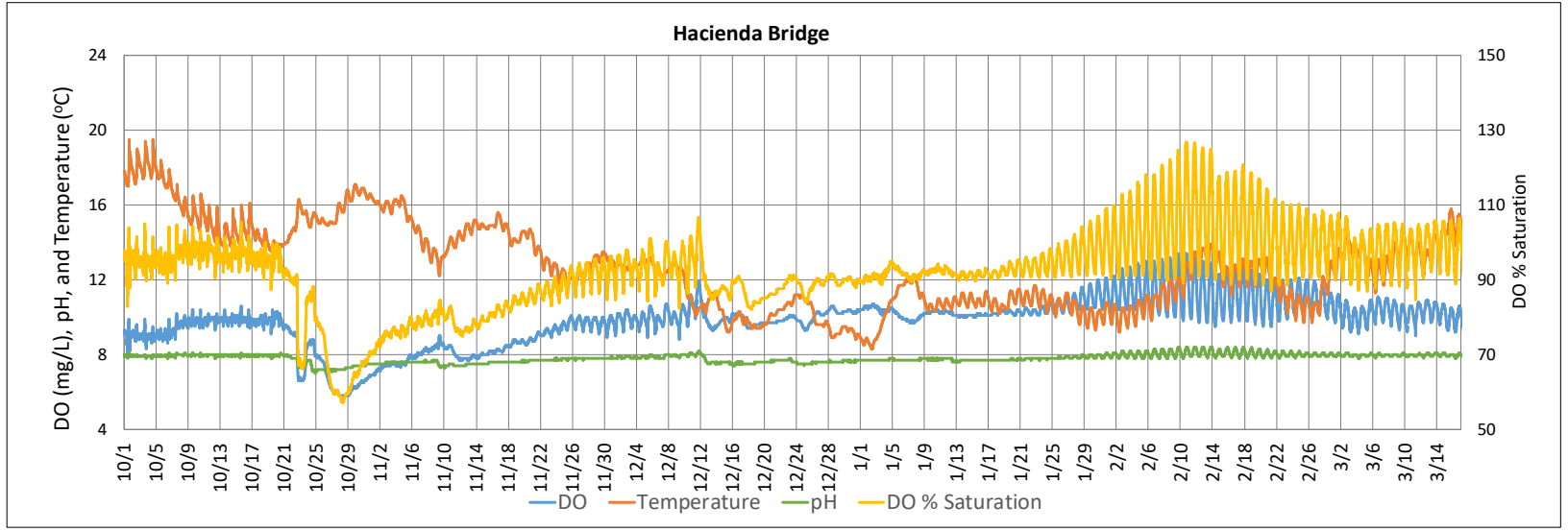
Russian River Water Quality (October 1, 2021 - March 17, 2022)

Digger Bend



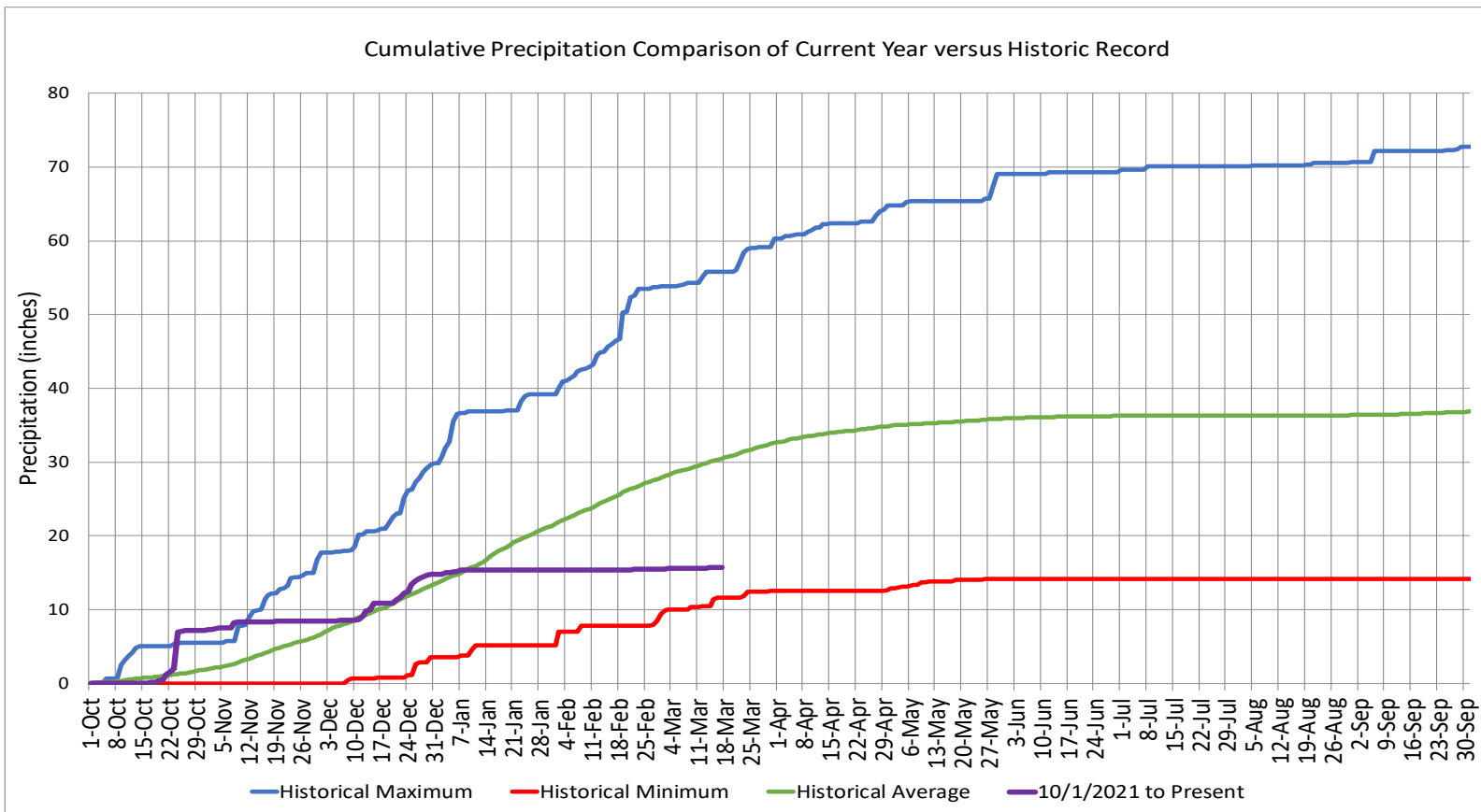
Russian River Water Quality (October 1, 2021 - March 17, 2022)

Hacienda Bridge



Precipitation

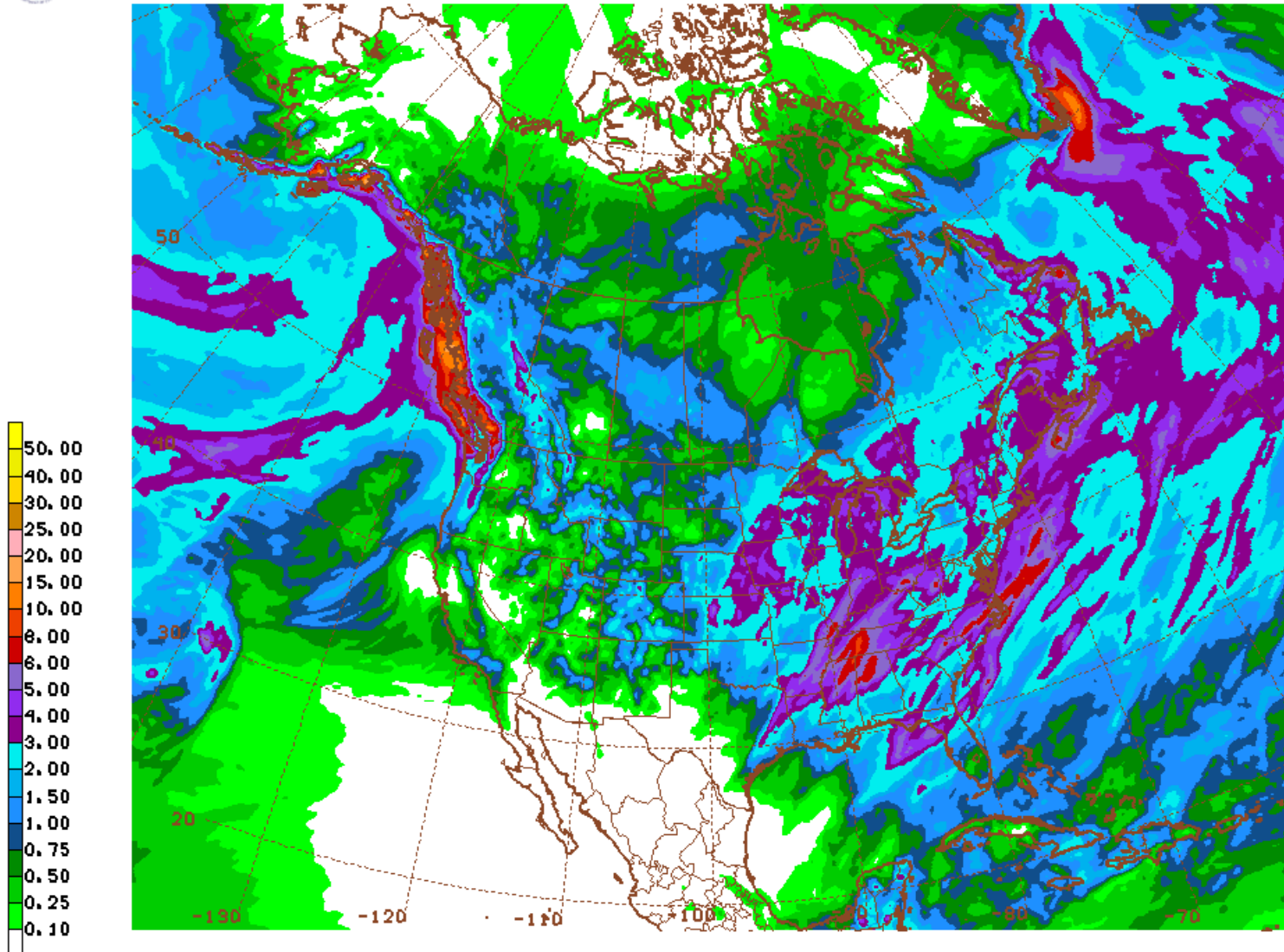
Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2021 - Mar 17, 2022	15.74
Last 7 Days*	0.14



Global Forecast System Model 16-day Cumulative Precipitation Forecast



GFS 03/21/22 12UTC 384HR FCST VALID WED 04/06/22 12UTC NOAA/NWS/NCEP



GFS WED 220406/1200Y384 384HR ACCUMULATED PRECIP (IN)

Date Range
Mar 21 - Apr 6, 2022

Forecasted Cumulative (inches)
0.15