



Sonoma Water

**State Water Resources Control Board
 Temporary Urgency Change Order (12/11/2021)
 Russian River Hydrologic Report
 March 4, 2022 - March 10, 2022**

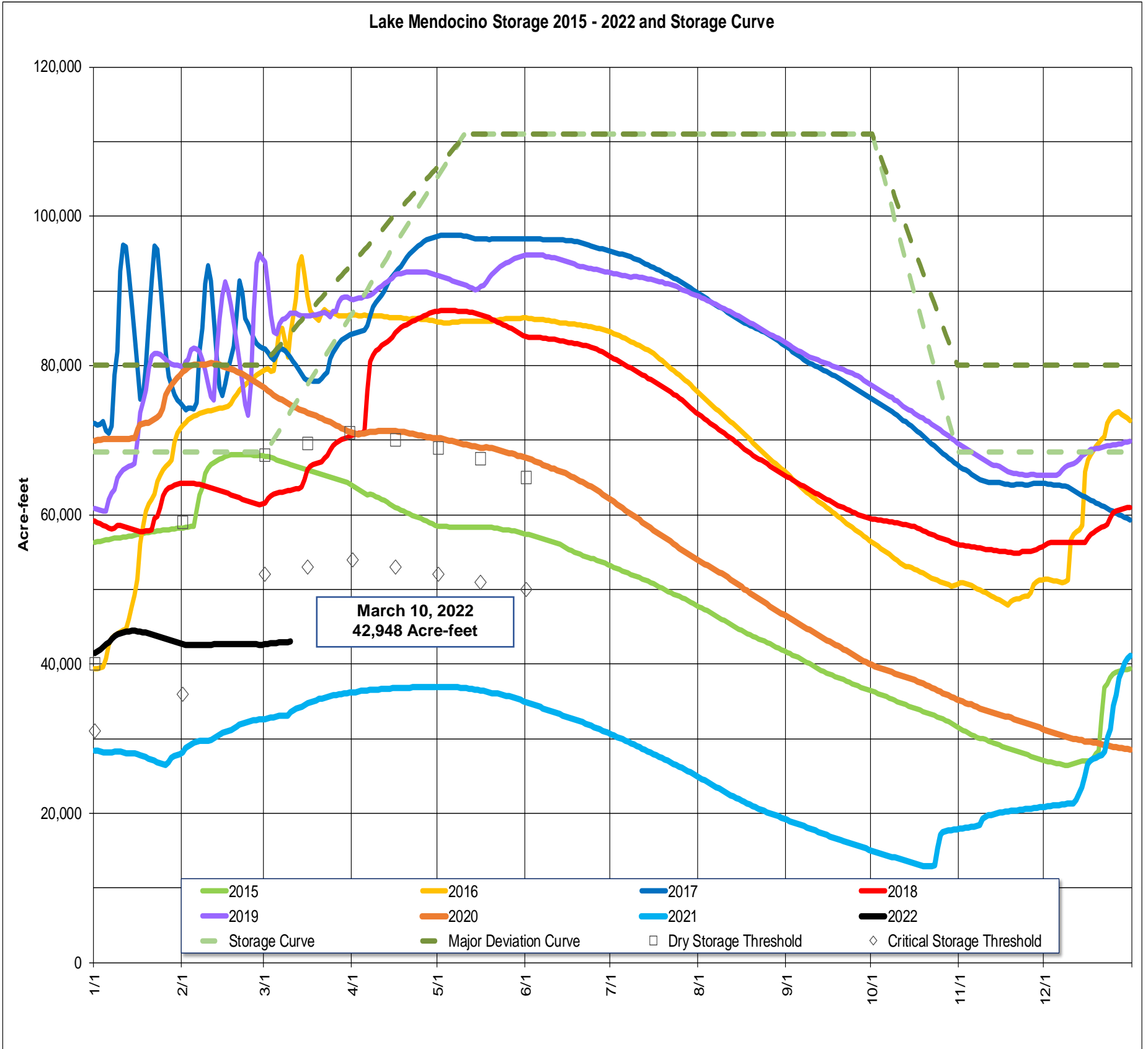
Prepared as a requirement of the Order approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A, 12949, 12950, and 16596 (Applications 12919A, 15736, 15737, and 19351).

Instream Flow Requirements as of March 10, 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

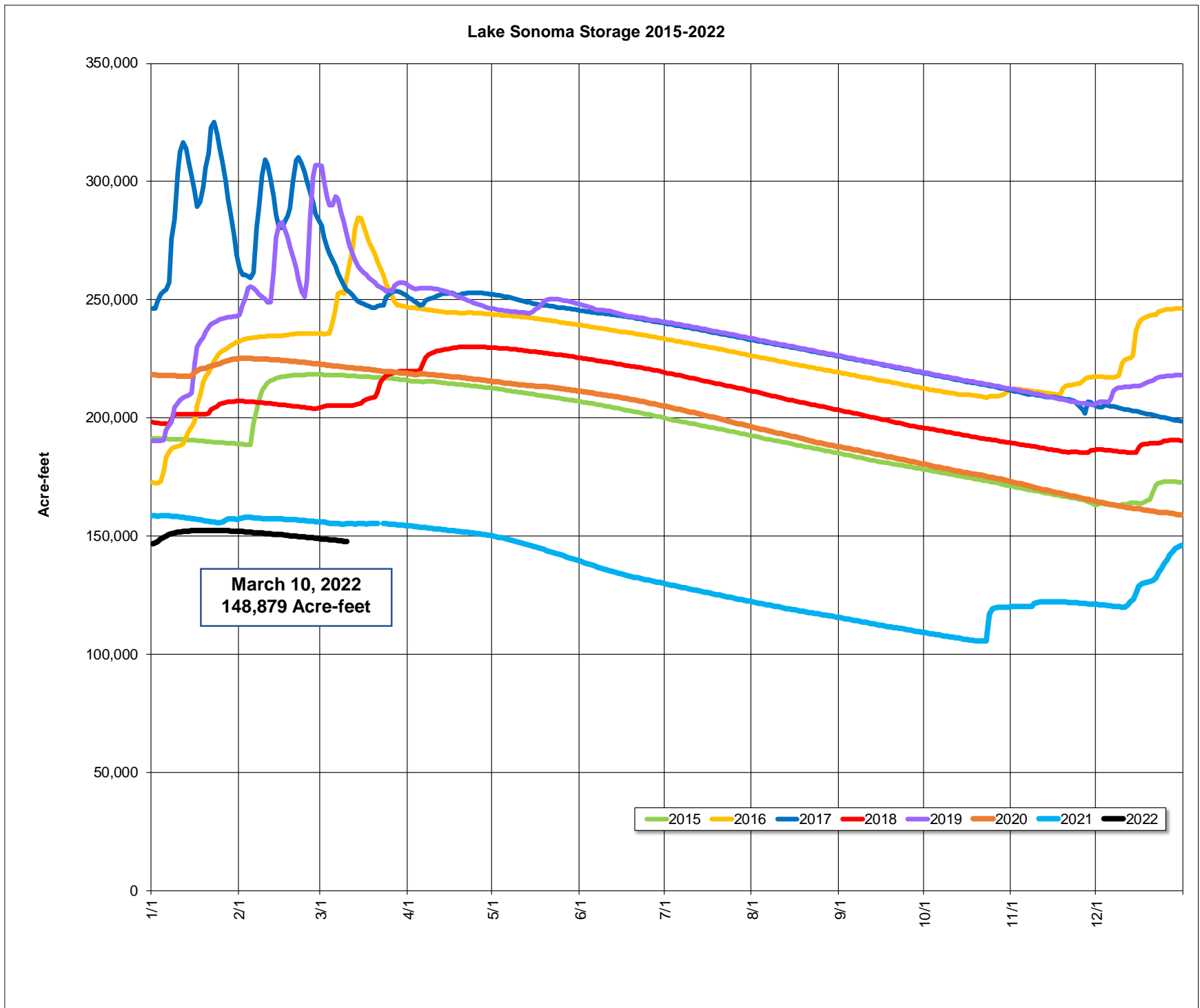


Storage (acre-feet)	March 10, 2022	42,948	
Change in Storage (acre-feet)	Last 30 days	425	14
	Last 7 days	212	30
Daily Inflow (cfs)	Last 7 days	Min	43
		Max	89
		Mean	59
Release (cfs)	Last 7 days	Min	30
		Max	31
		Mean	30

Lake Sonoma



Nathan Baskett, March 3, 2011



Storage (acre-feet)	March 10, 2022	147,879	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	-3,559	-119
	Last 7 days	-810	-116
Daily Inflow (cfs)	Last 7 days	Min	5
		Max	27
		Mean	16
Release (cfs)	Last 7 days	Min	77
		Max	78
		Mean	77

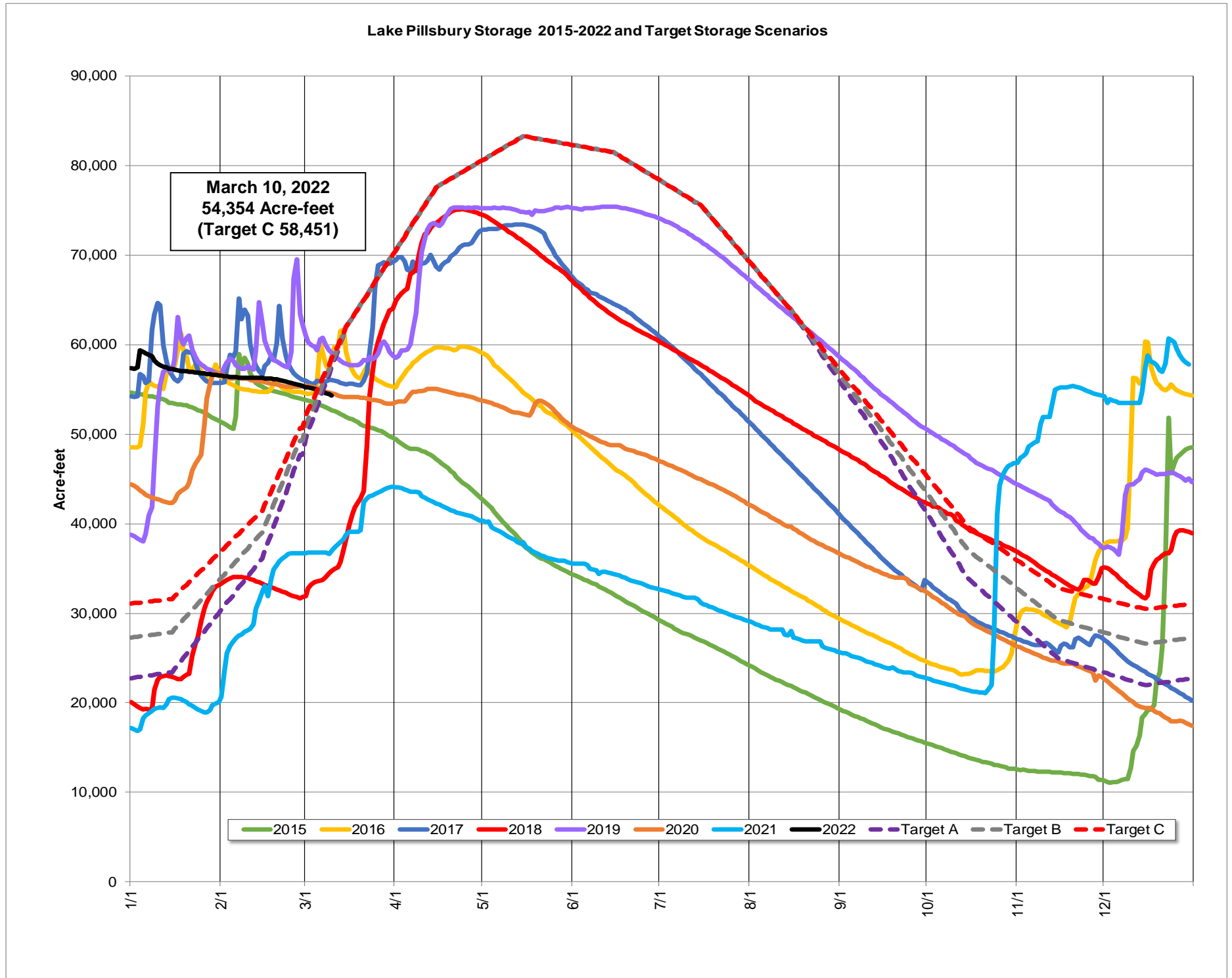
Potter Valley Project

PVP Diversion (cfs)	March 10, 2022	45
---------------------	----------------	----

Lake Pillsbury

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2021 - March 10, 2022	185,693	1161
	Last 7 days	1,624	232

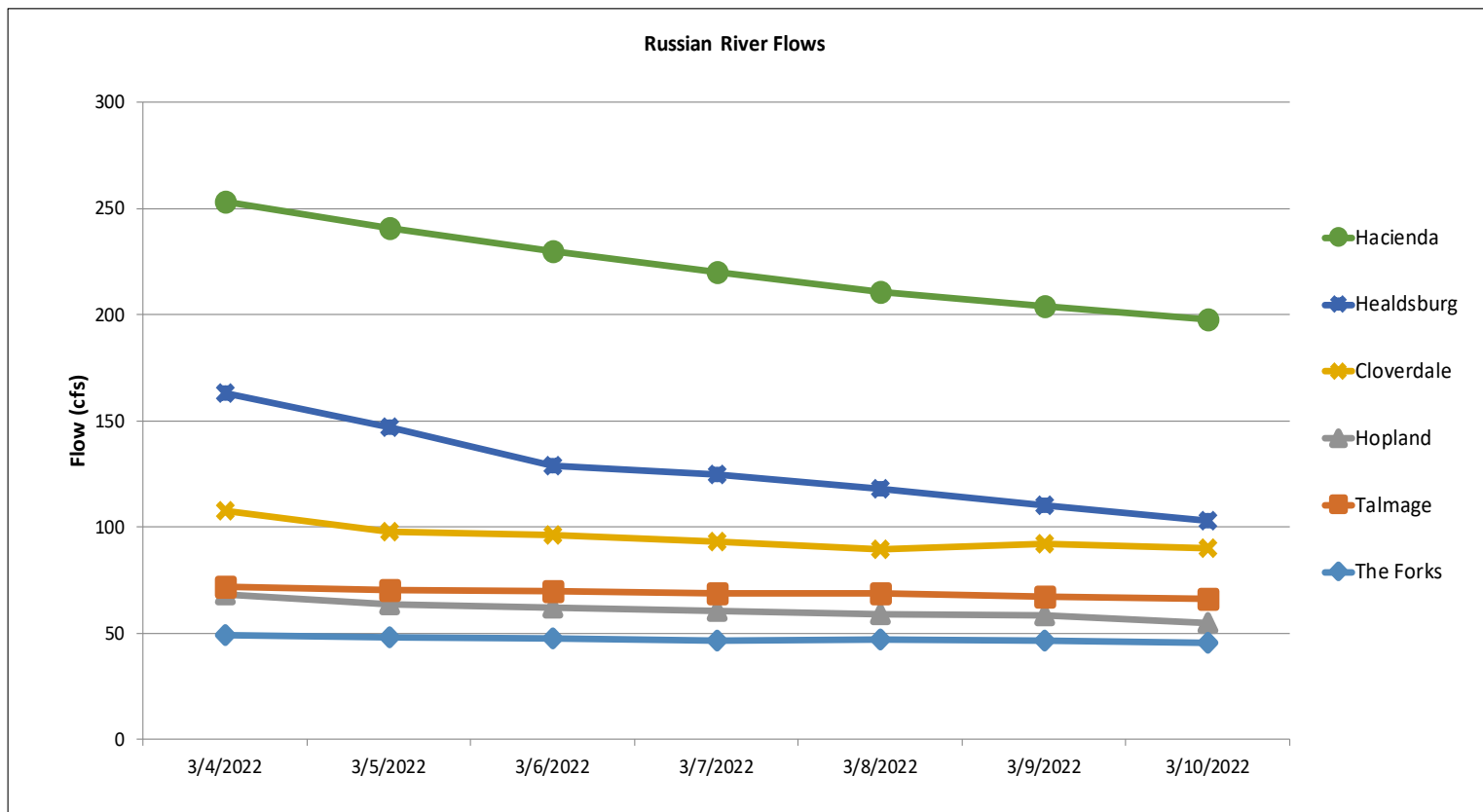
*Inflow calculation based on criteria established in D1610



Russian River Flows (March 4, 2022 - March 10, 2022)

Gage	24-hr Average Flow (cfs)						
	Mar 4, 2022	Mar 5, 2022	Mar 6, 2022	Mar 7, 2022	Mar 8, 2022	Mar 9, 2022	Mar 10, 2022
The Forks*	49	48	48	47	47	47	46
Talmage USGS 11462080	72	71	70	69	69	68	66
Hopland USGS 11462500	68	64	62	60	59	59	55
Cloverdale USGS 11463000	108	98	96	93	90	92	90
Healdsburg USGS 11464000	163	147	129	125	118	110	103
Hacienda USGS 11467000	253	241	230	220	211	204	198

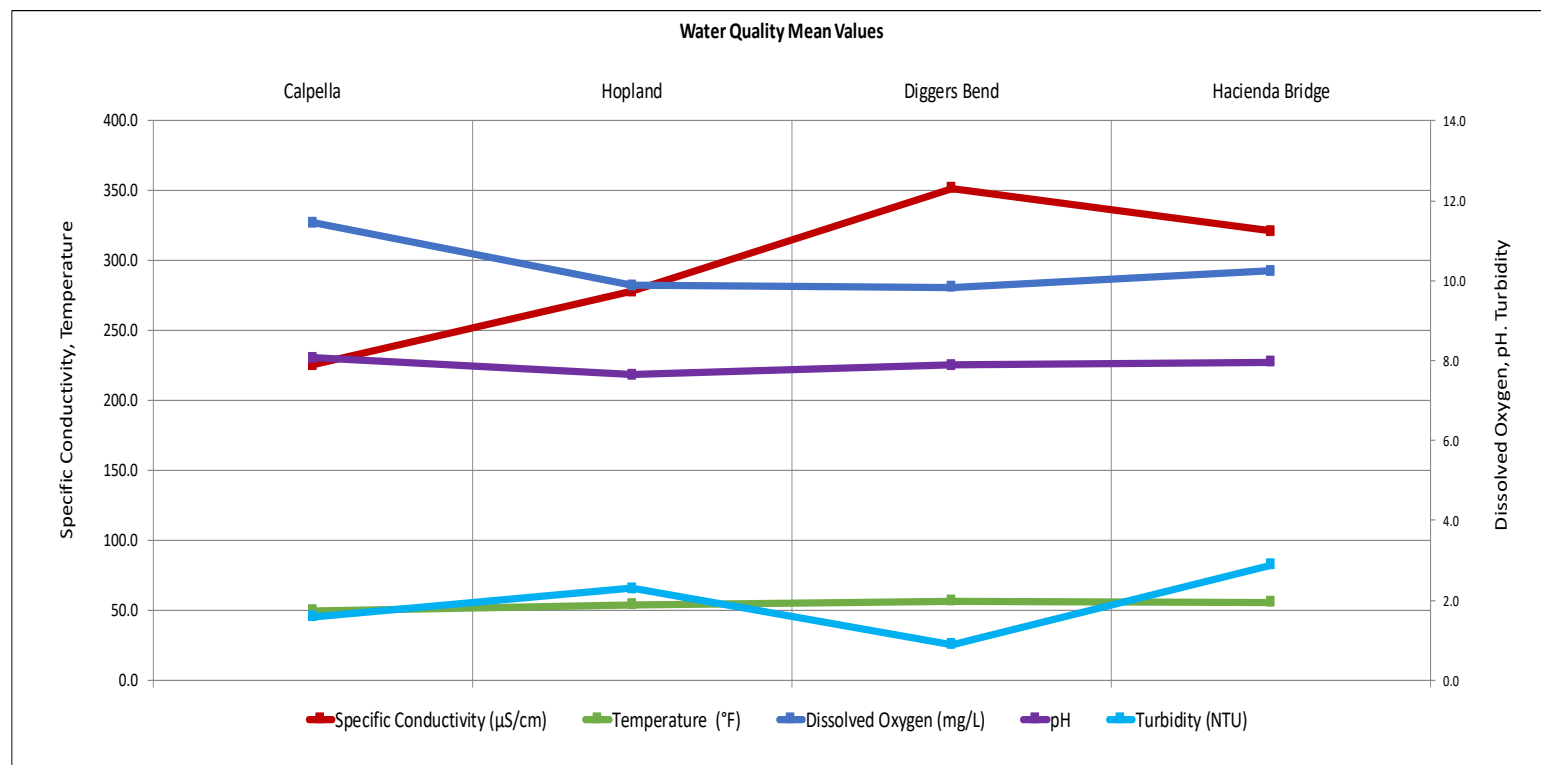
*West Fork (USGS 11461000) + East Fork (Coyote Valley Dam Release)



Russian River Water Quality (March 4, 2022 - March 10, 2022)

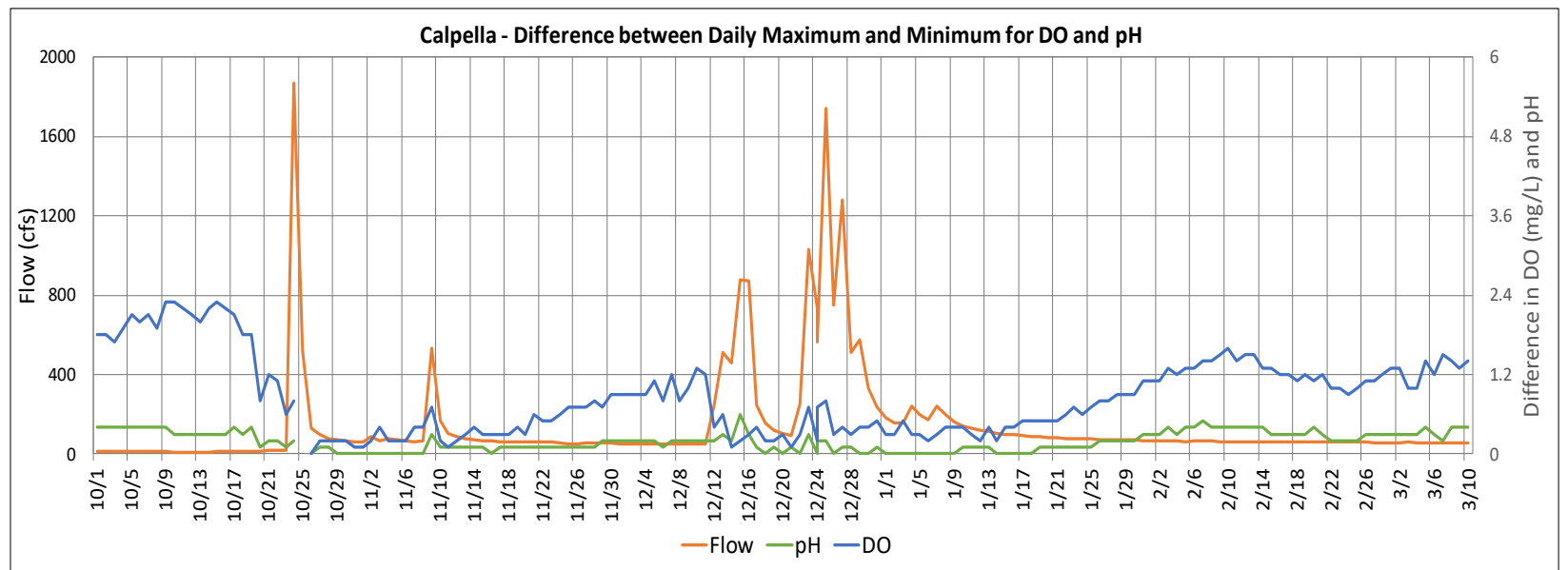
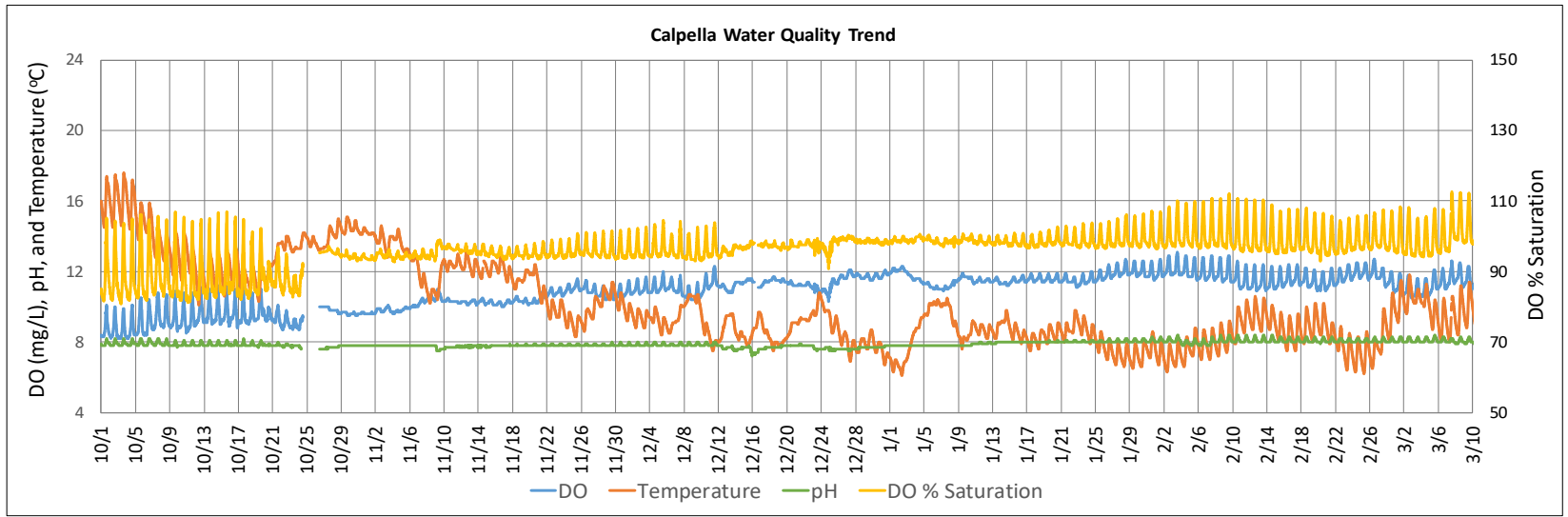
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463200	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	46.4	50.2			52.2		52.3	
	Max	52.7	56.5			60.8		58.1	
	Mean	49.5	53.8			56.4		55.6	
Specific Conductivity (µS/cm)	Min	222.0	272.0			344.0		318.0	
	Max	231.0	281.0			359.0		325.0	
	Mean	225.2	278.2			351.9		321.1	
Dissolved Oxygen (mg/L)	Min	10.6	8.8			8.8		9.1	
	Max	12.6	11.2			11.0		11.1	
	Mean	11.5	9.9			9.8		10.2	
Dissolved Oxygen (% Saturation)	Min	94.1	81.4			83.9		86.9	
	Max	112.9	106.5			108.5		105.3	
	Mean	100.8	92.0			94.6		97.4	
pH	Min	7.9	7.5			7.7		7.8	
	Max	8.4	7.8			8.1		8.1	
	Mean	8.1	7.6			7.9		8.0	
Turbidity (NTU)	Min	1.3	0.5			0.1		1.9	
	Max	2.2	4.0			2.0		4.6	
	Mean	1.6	2.3			0.9		2.9	

*Station operated seasonally



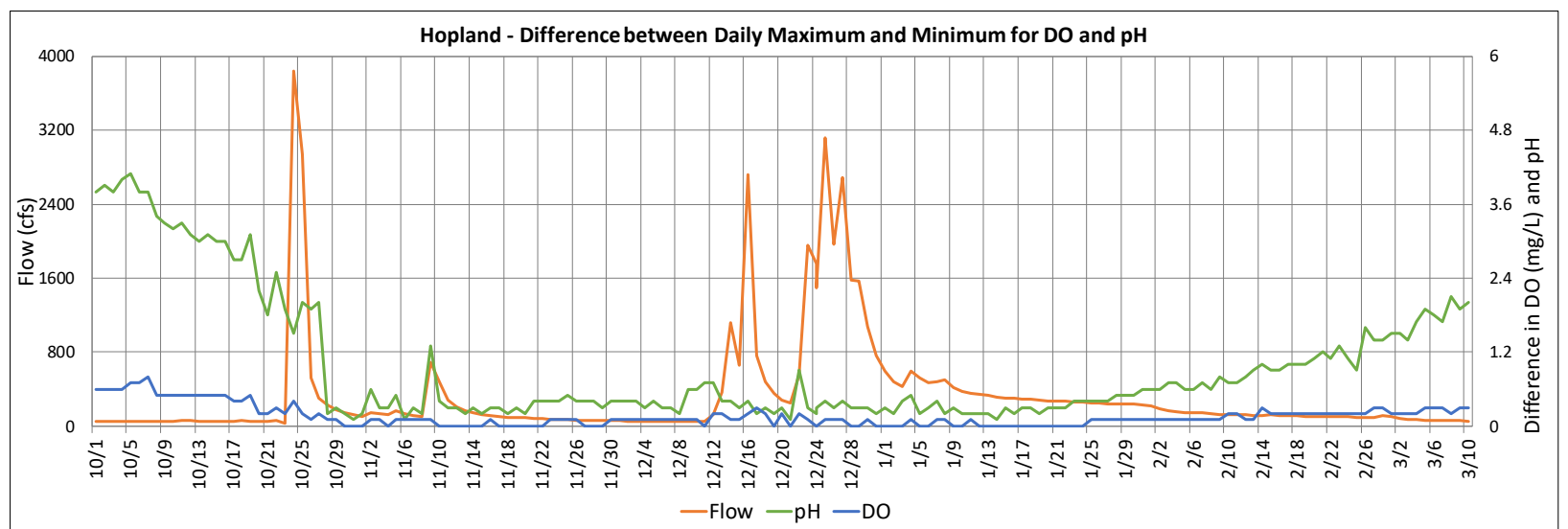
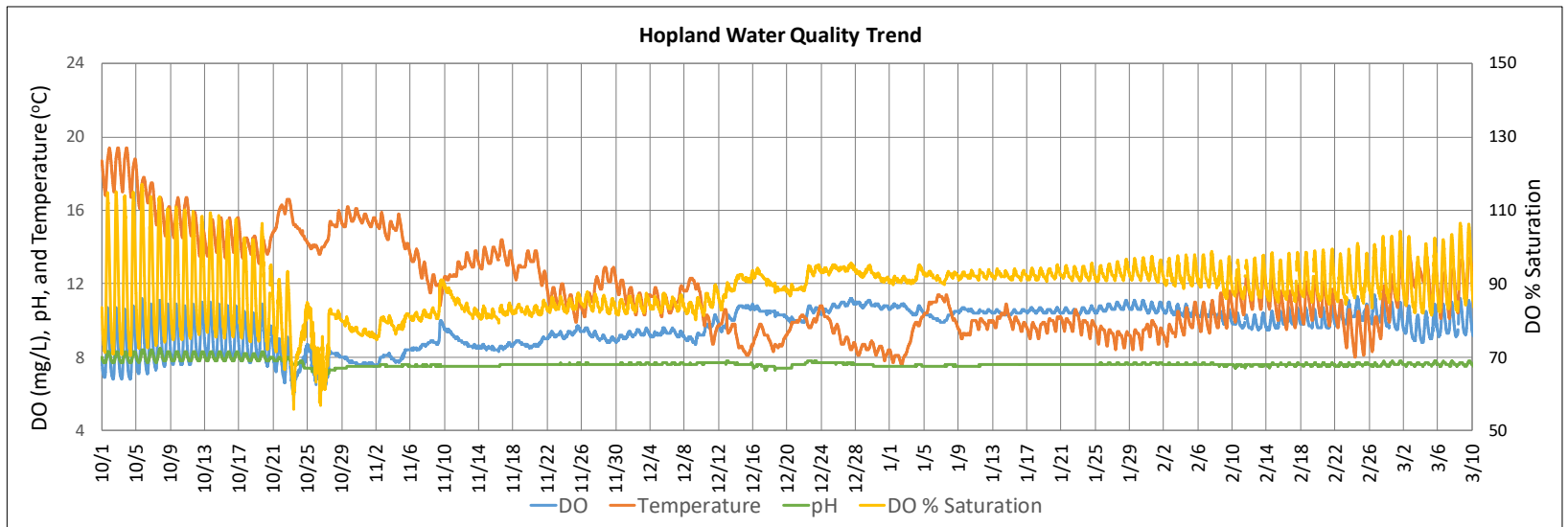
Russian River Water Quality (October 1, 2021 - March 10, 2022)

Calpella (East Fork Russian River)



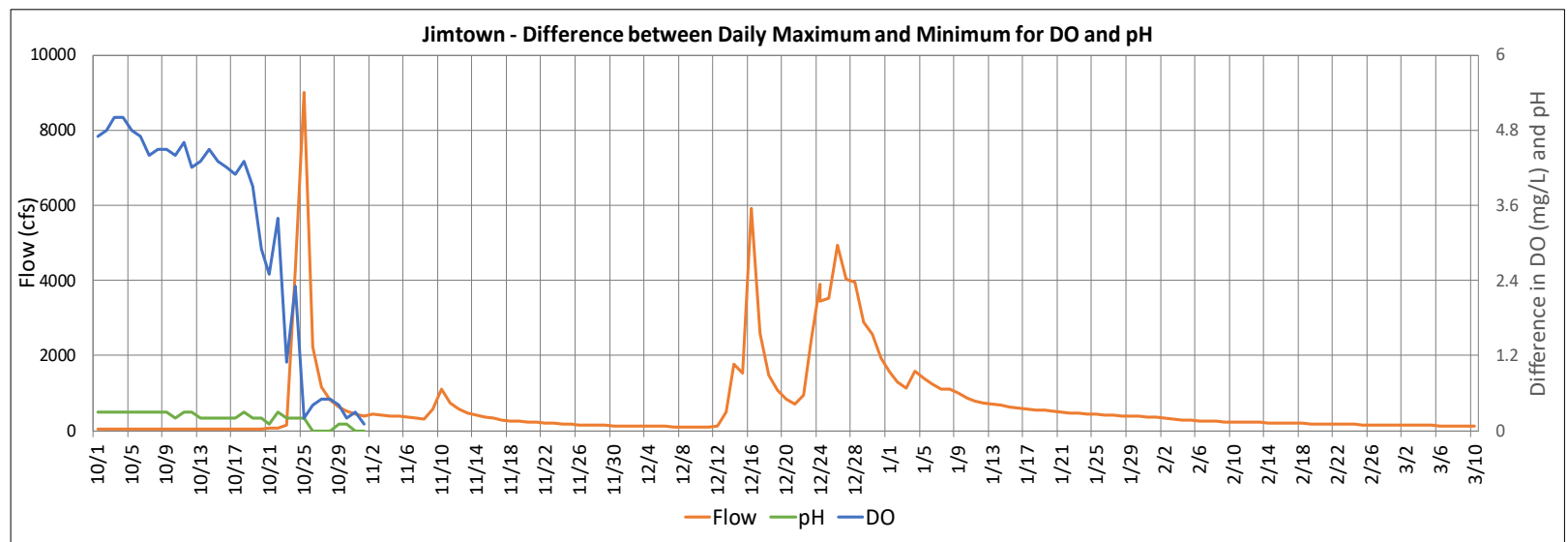
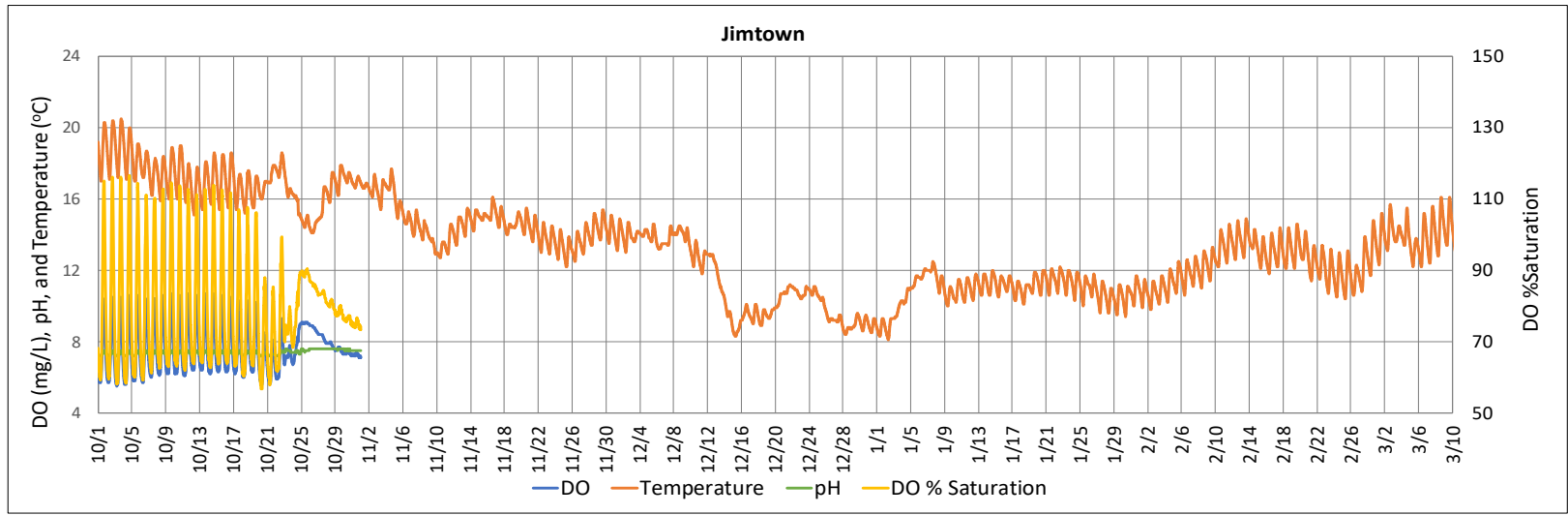
Russian River Water Quality (October 1, 2021 - March 10, 2022)

Hopland



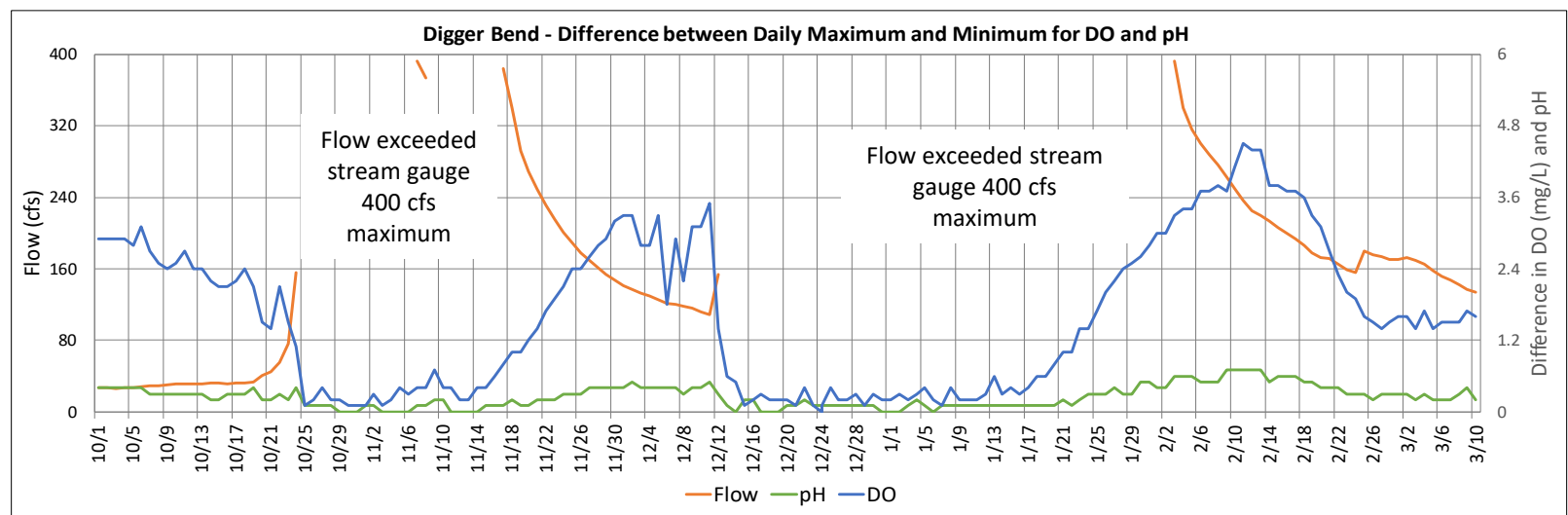
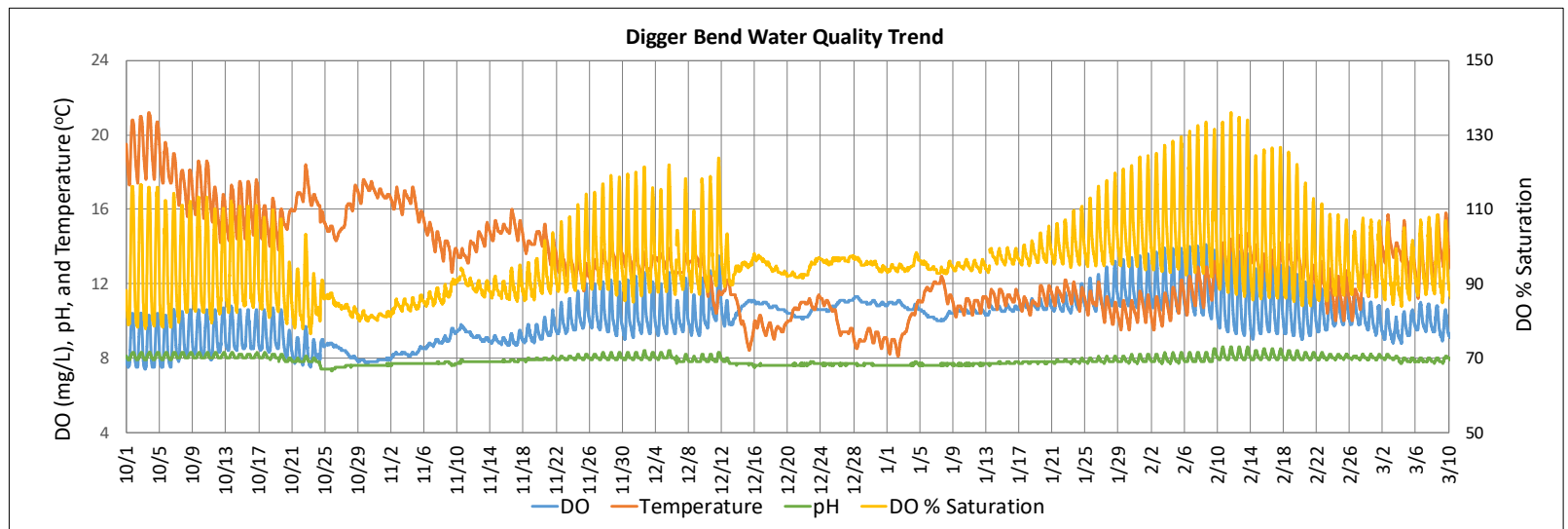
Russian River Water Quality (October 1, 2021 - March 10, 2022)

Jimtown



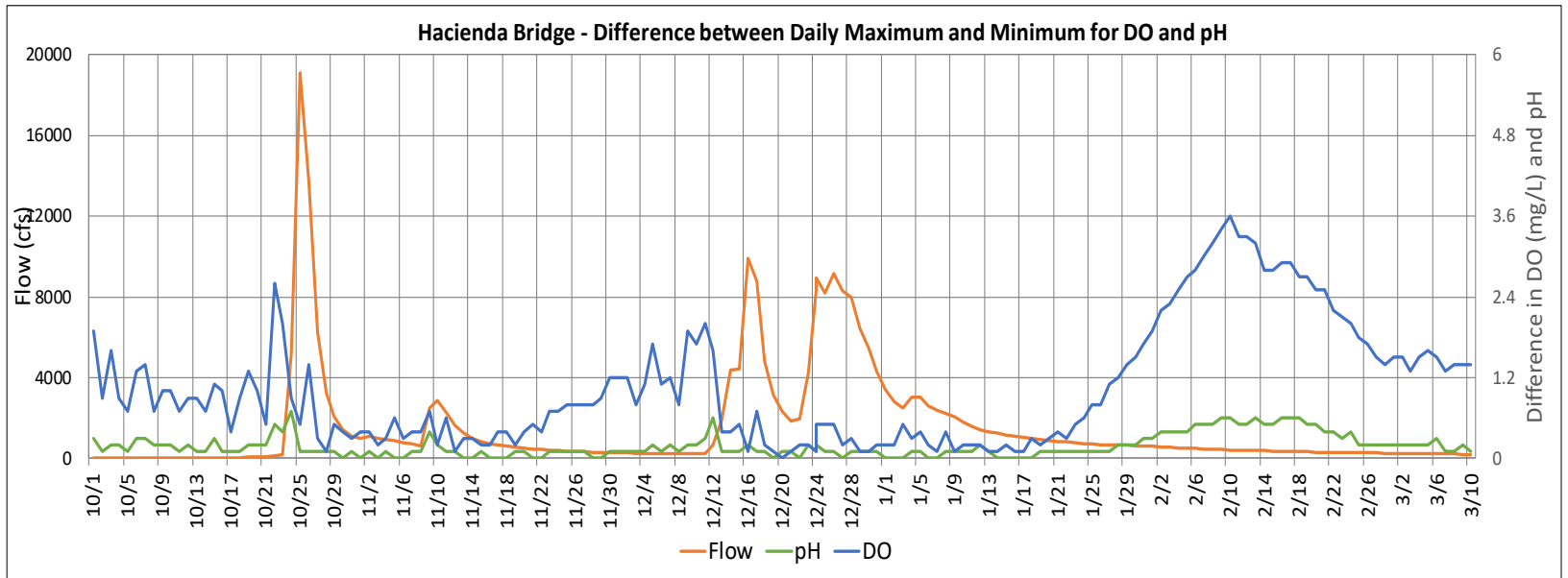
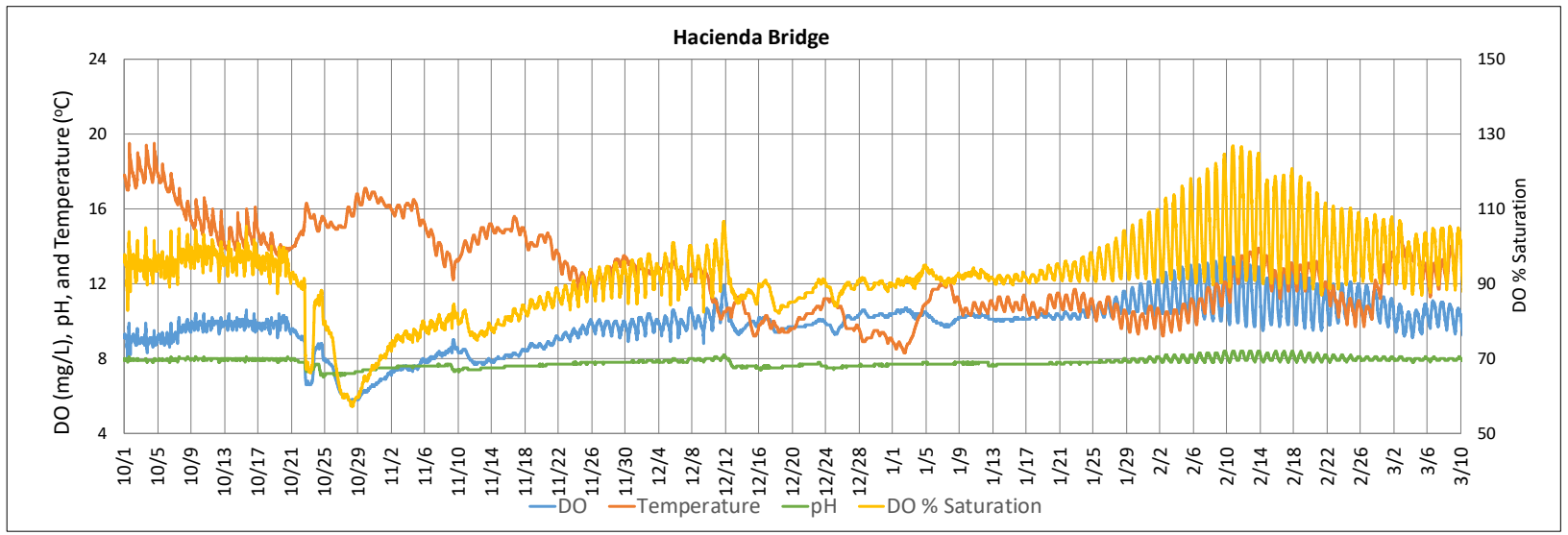
Russian River Water Quality (October 1, 2021 - March 10, 2022)

Digger Bend



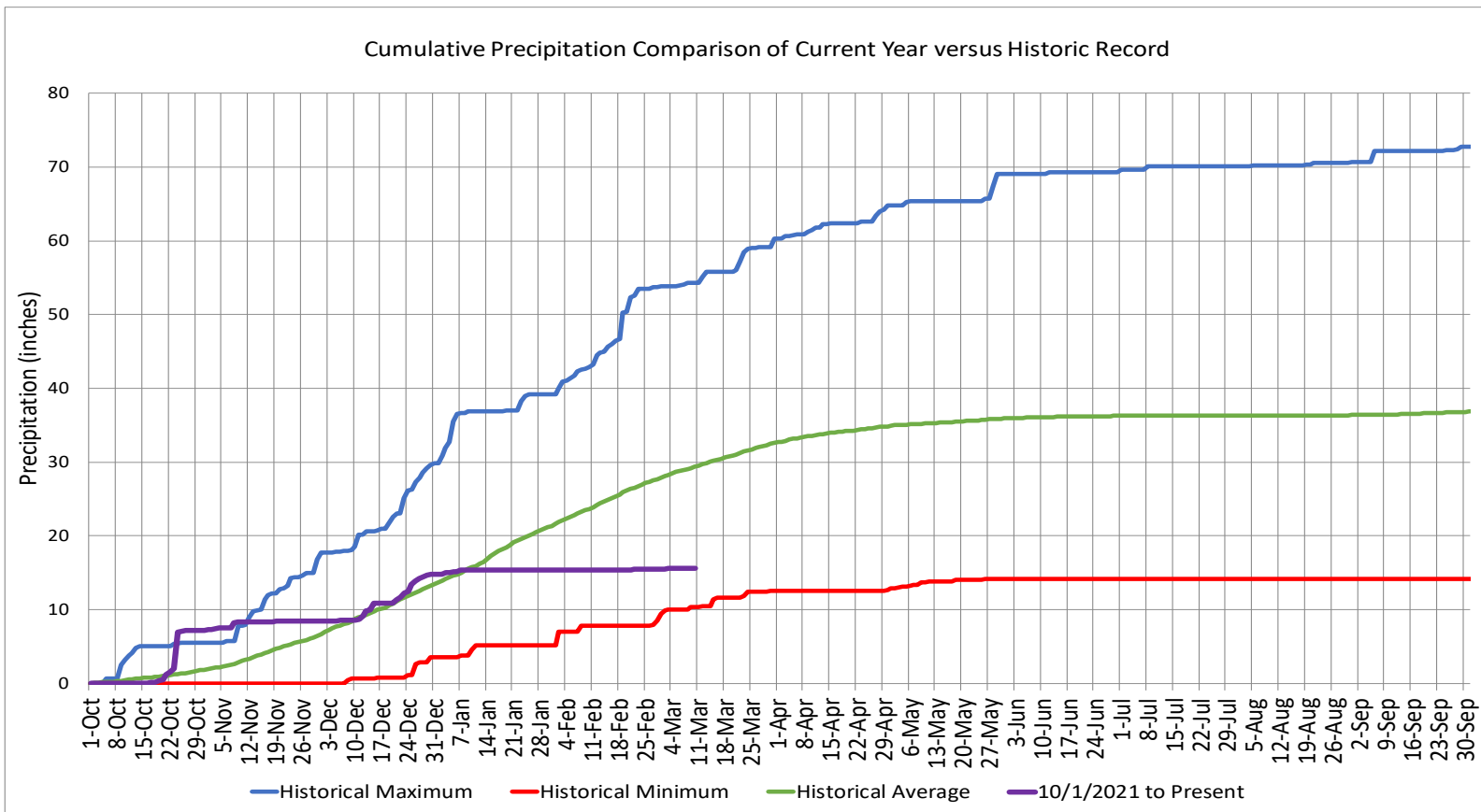
Russian River Water Quality (October 1, 2021 - March 10, 2022)

Hacienda Bridge



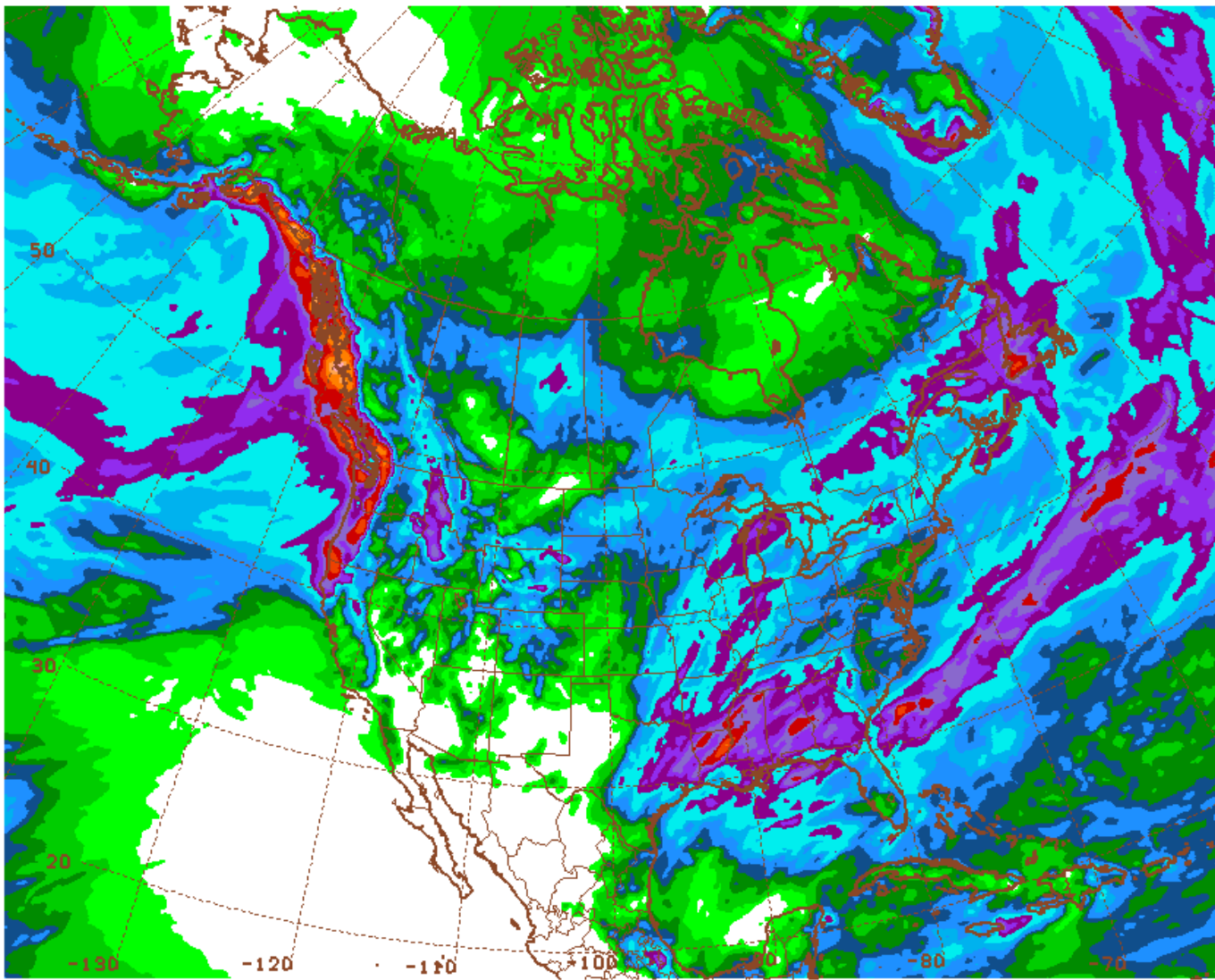
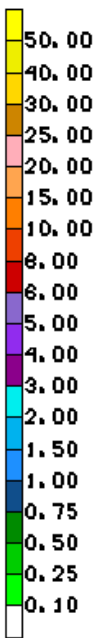
Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2021 - Mar 10, 2022	15.6
Last 7 Days*	0.01



Global Forecast System Model 16-day Cumulative Precipitation Forecast

GFS 03/14/22 12UTC 384HR FCST VALID WED 03/30/22 12UTC NOAA/NWS/NCEP



GFS WED 220330/1200V384 384HR ACCUMULATED PRECIP (IN)

Date Range
Mar 14 - Mar 30, 2022

Forecasted Cumulative (inches)
0.8