



**State Water Resources Control Board
 Temporary Urgency Change Order (12/11/2021)
 Russian River Hydrologic Report
 May 6, 2022 - May 12, 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).

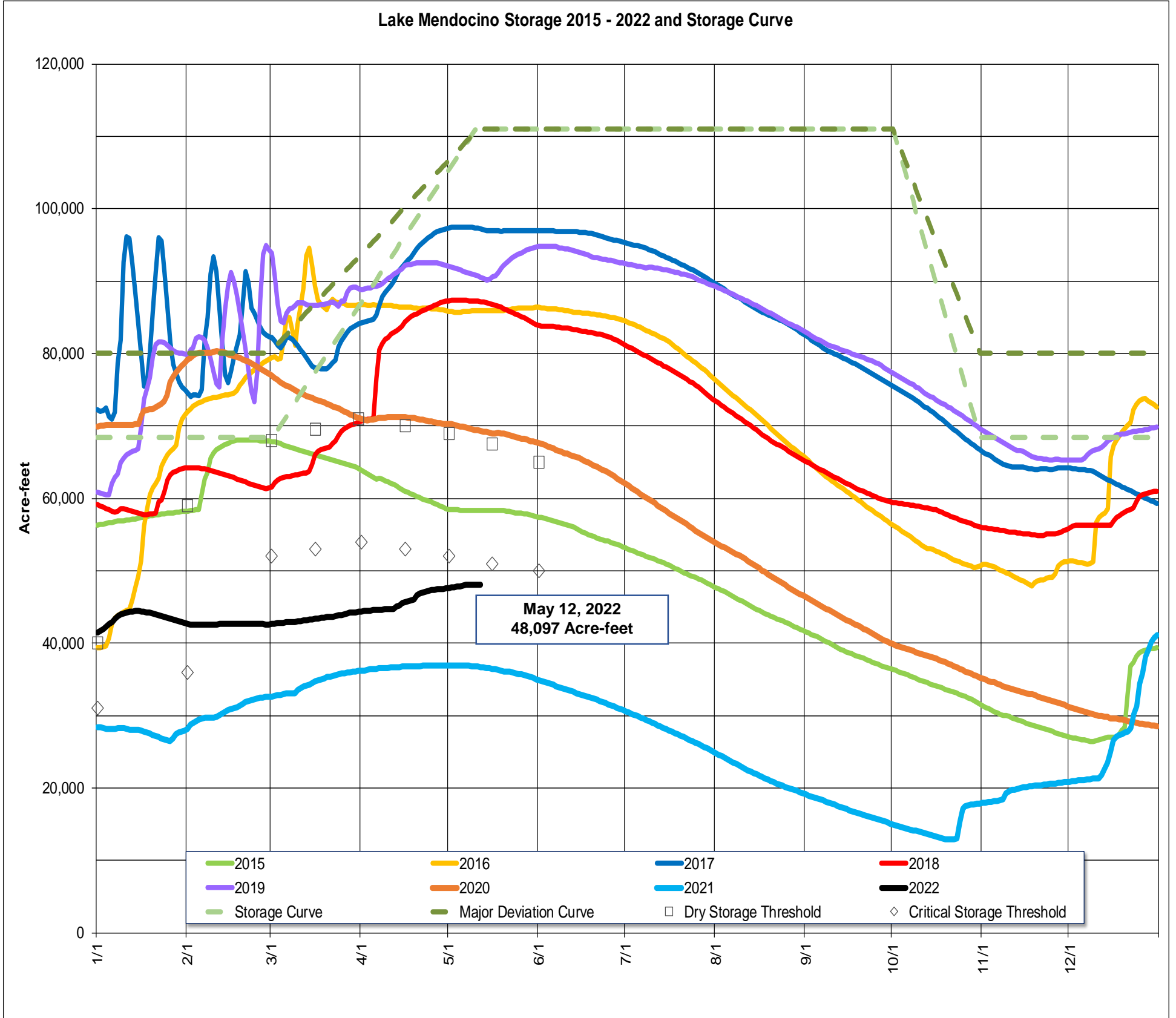
Instream Flow Requirements as of May 12, 2022

Basis	Reach	Instantaneous (cfs)	5-day Average (cfs)
Modified Per Order: Critical Condition	Upper Russian River	25	-
Modified Per Order: Critical Condition	Dry Creek	25	-
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

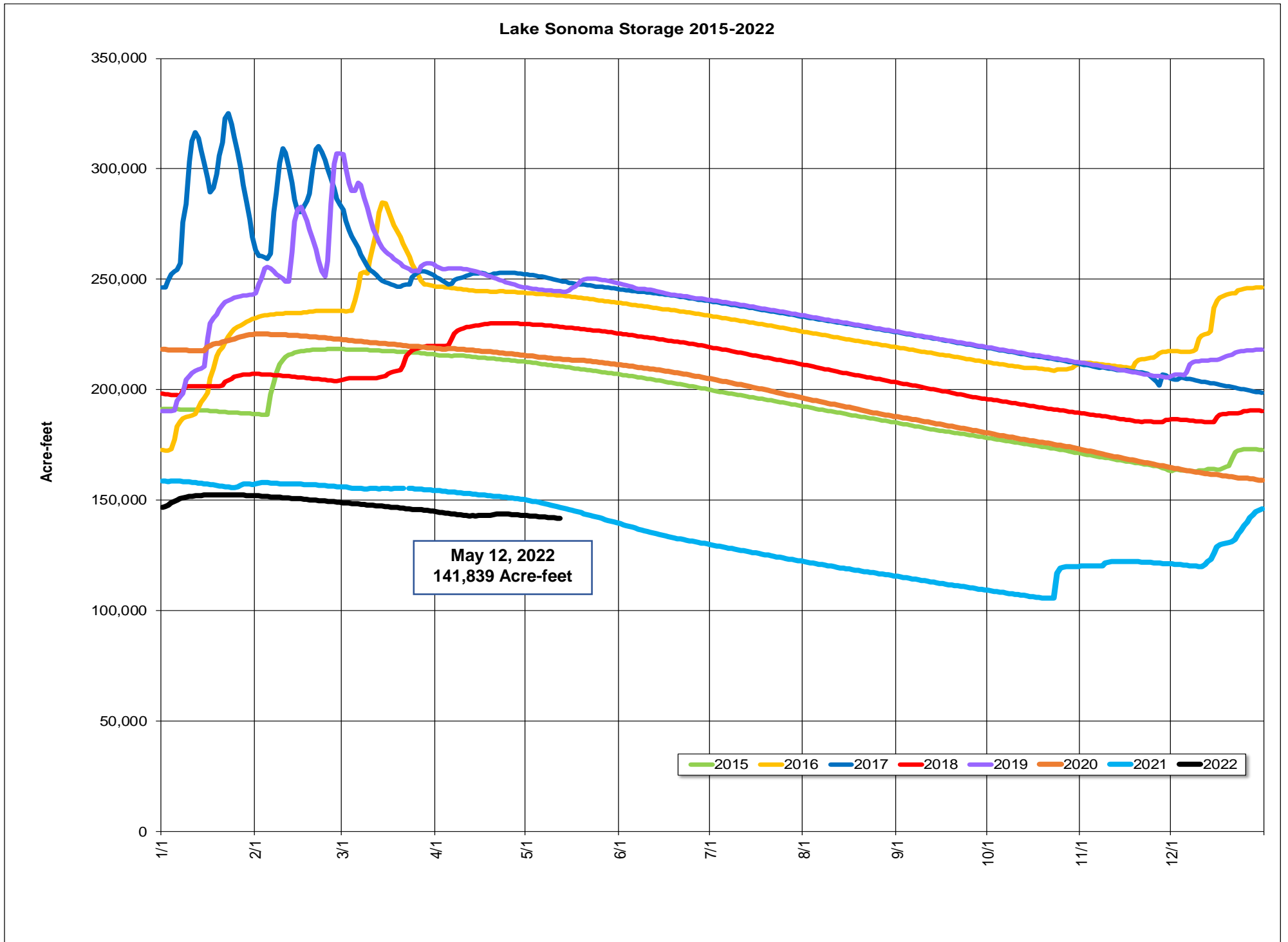


Storage (acre-feet)	May 12, 2022	48,097	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	3,364	112
	Last 7 days	222	32
Daily Inflow (cfs)	Last 7 days	Min	29
		Max	84
		Mean	59
Release (cfs)	Last 7 days	Min	28
		Max	32
		Mean	29

Lake Sonoma



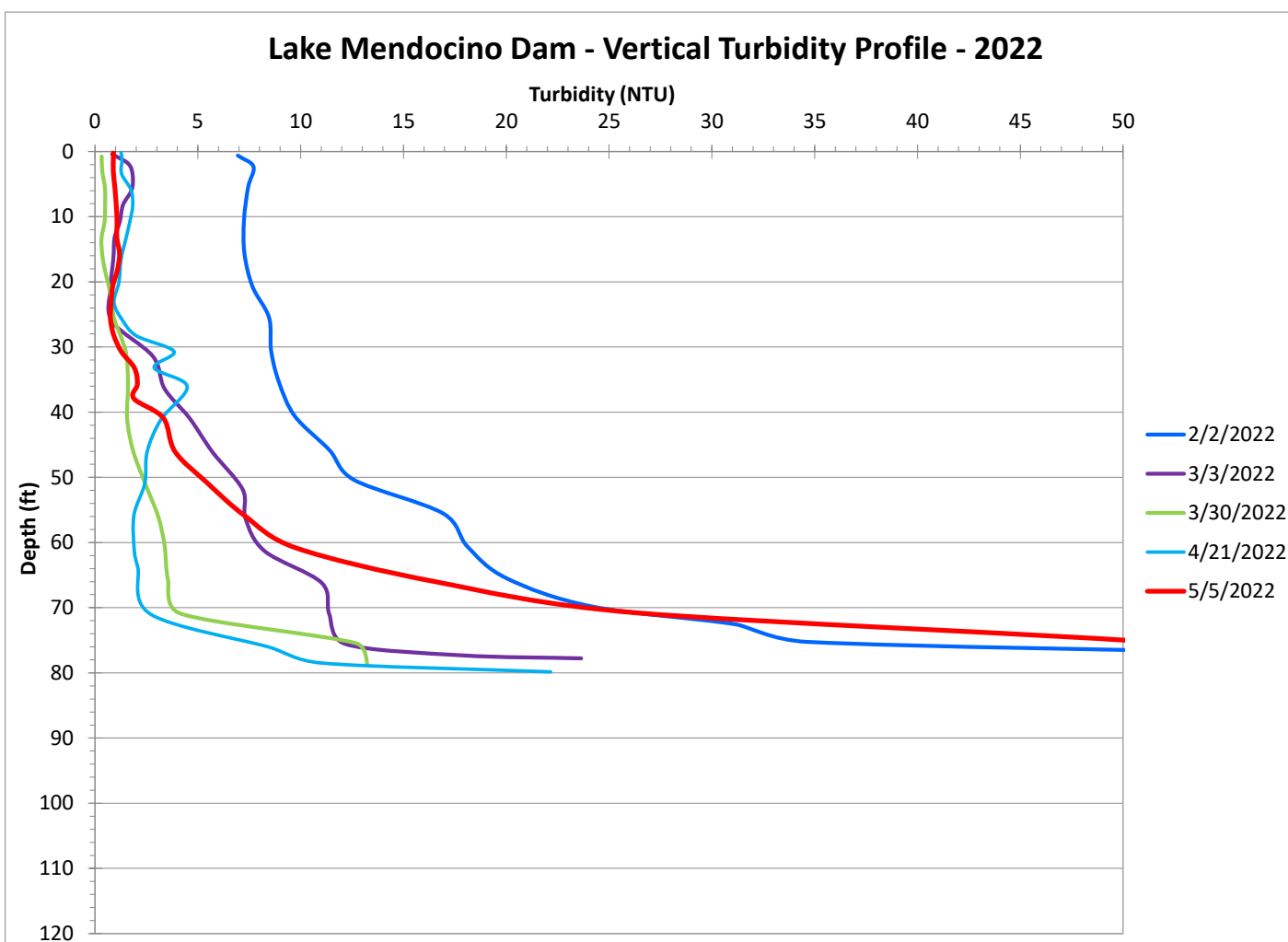
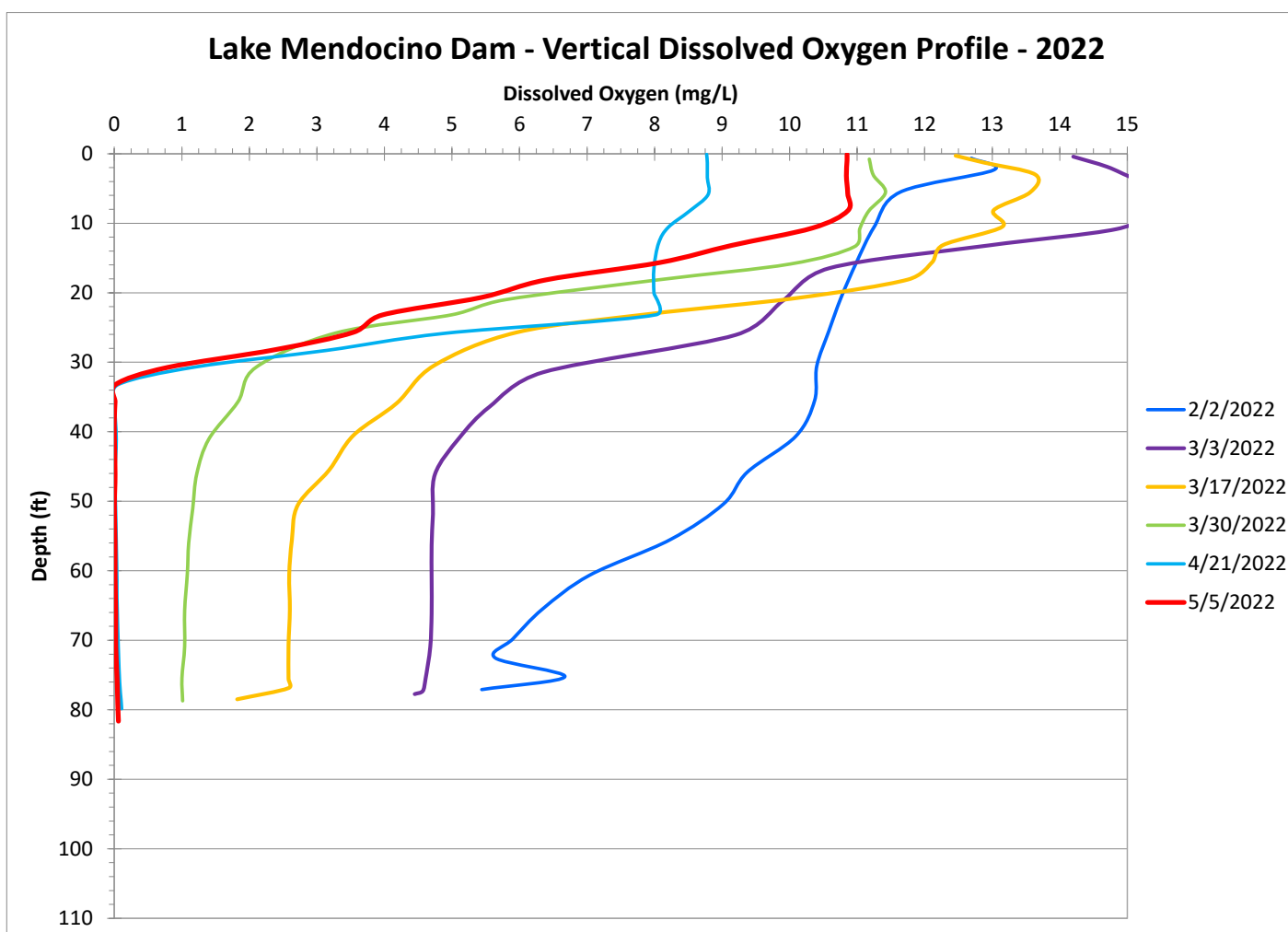
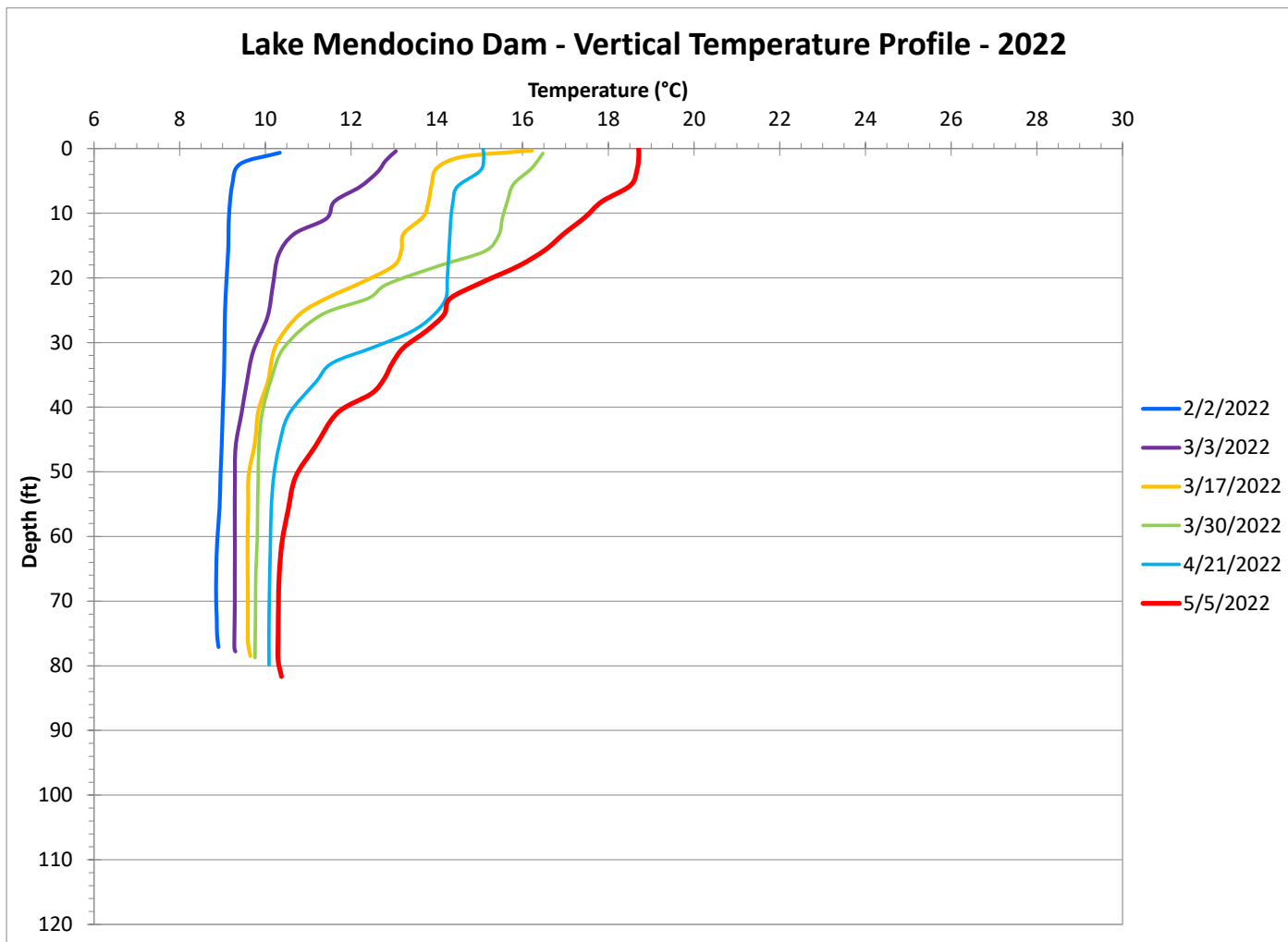
Nathan Baskett, March 3, 2011



Storage (acre-feet)	May 12, 2022	141,839	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	-1,135	-38
	Last 7 days	-732	-105
Daily Inflow (cfs)	Last 7 days	Min	0
		Max	37
		Mean	16
Release (cfs)	Last 7 days	Min	66
		Max	66
		Mean	66

Lake Mendocino Water Quality Vertical Profiles (February 2 – May 5, 2022)

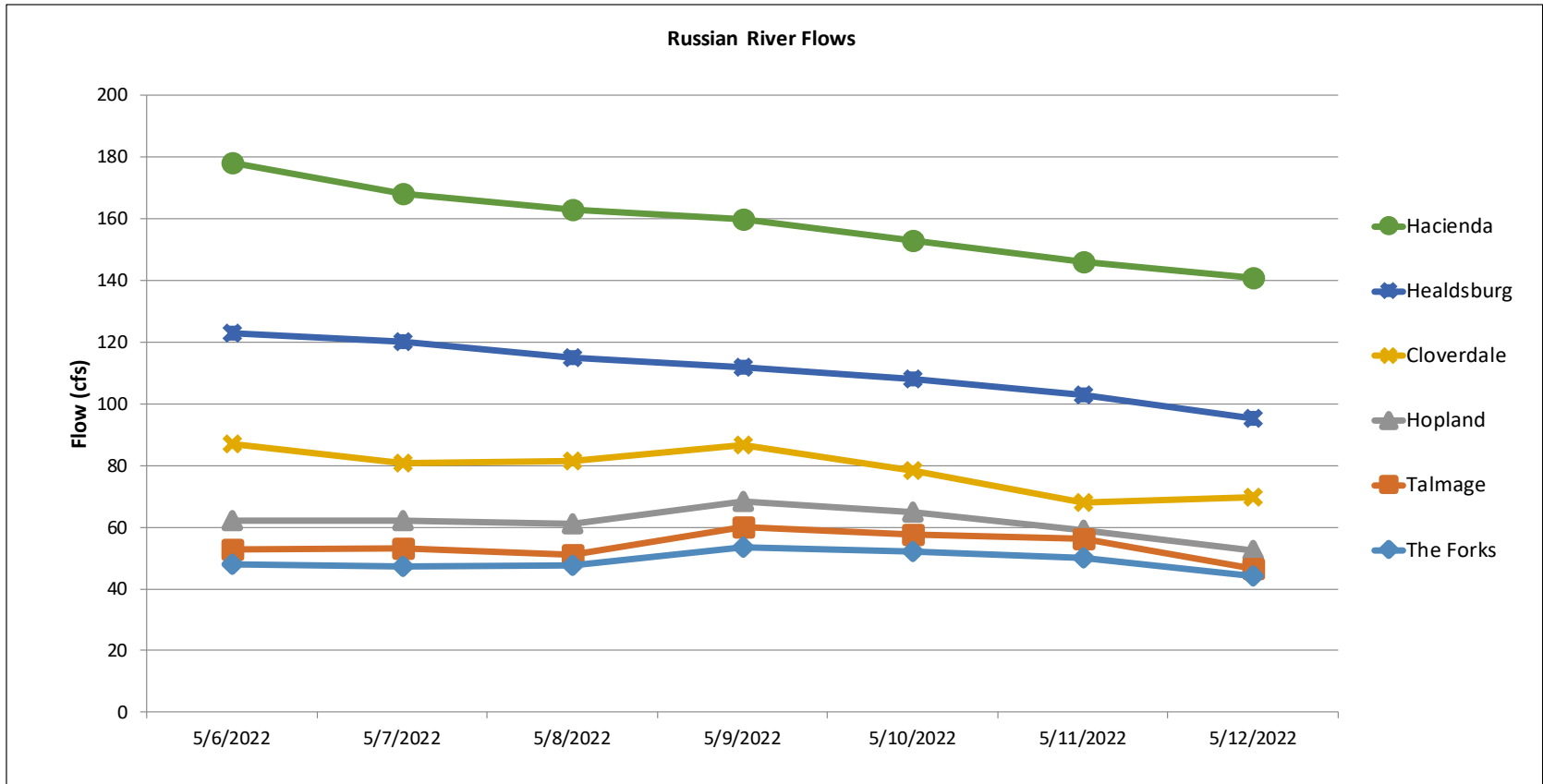
Provisional Data Subject to Revision



Russian River Flows (May 6, 2022 - May 12, 2022)

Gage	24-hr Average Flow (cfs)						
	May 6, 2022	May 7, 2022	May 8, 2022	May 9, 2022	May 10, 2022	May 11, 2022	May 12, 2022
The Forks*	48	47	48	53	52	50	44
Talmage USGS 11462080	53	53	51	60	57	56	47
Hopland USGS 11462500	62	62	61	68	65	59	53
Cloverdale USGS 11463000	87	81	81	87	78	68	70
Healdsburg USGS 11464000	123	120	115	112	108	103	95
Hacienda USGS 11467000	178	168	163	160	153	146	141

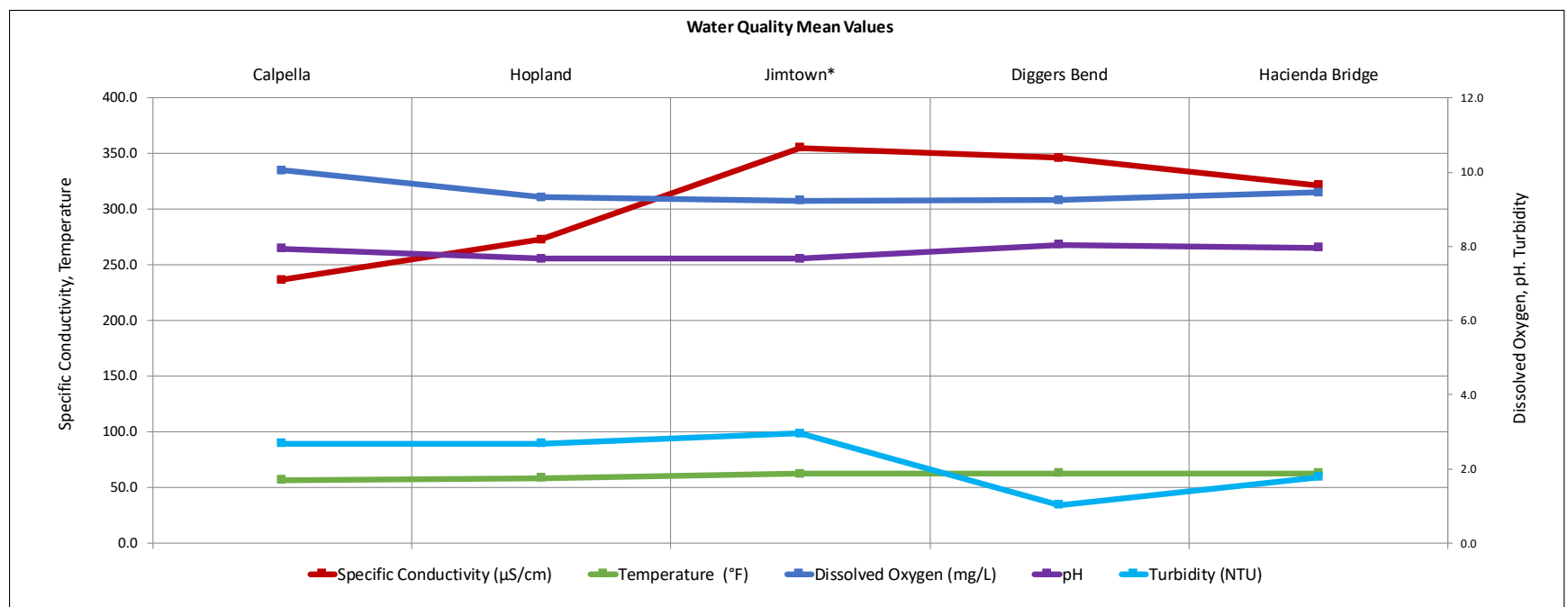
*West Fork (USGS 11461000) + East Fork (Coyote Valley Dam Release)



Russian River Water Quality (May 6, 2022 - May 12, 2022)

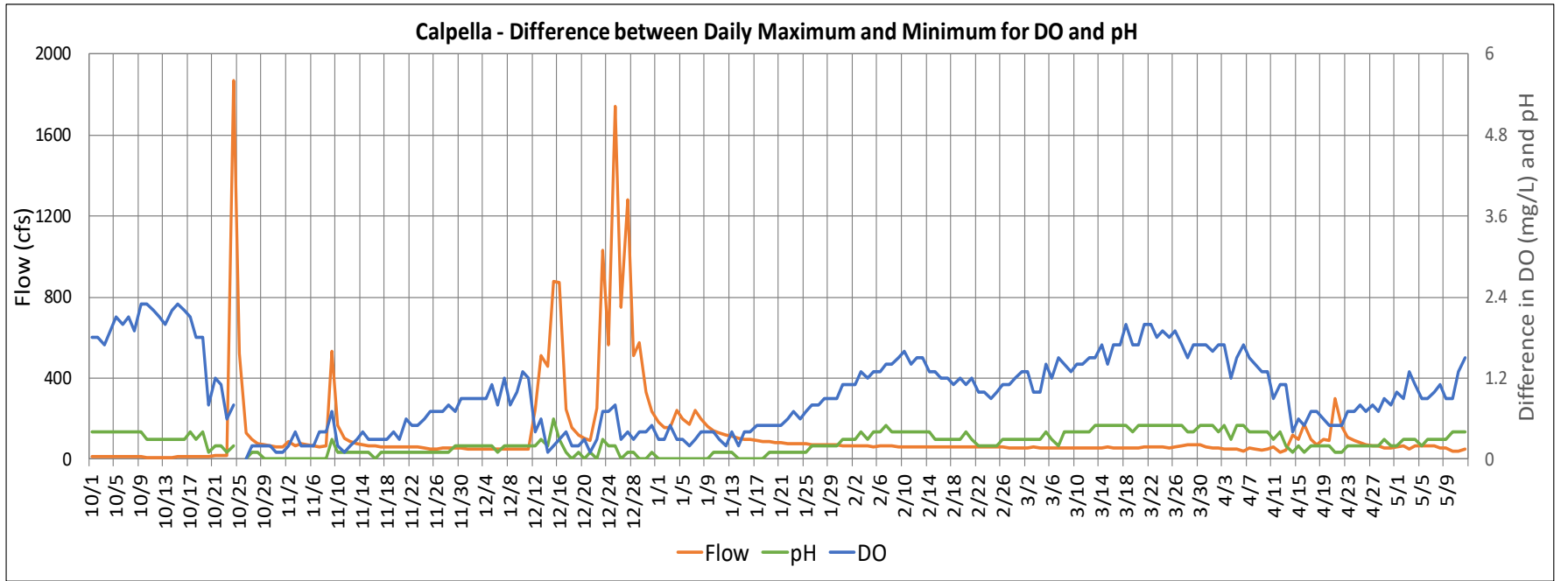
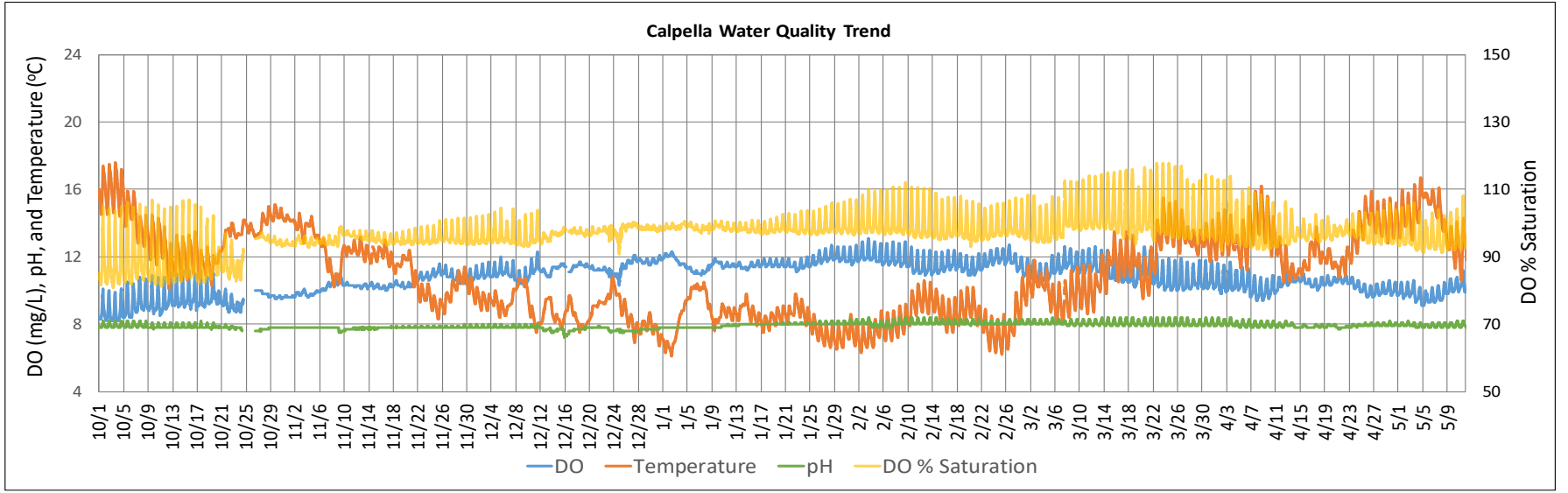
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	51.1	53.6		57.9	57.6		57.2	
	Max	61.0	62.8		67.5	68.0		68.0	
	Mean	56.5	58.3		62.3	62.4		62.7	
Specific Conductivity (µS/cm)	Min	225.0	269.0		350.0	342.0		318.0	
	Max	266.0	276.0		361.0	350.0		333.0	
	Mean	236.6	272.7		355.1	346.4		321.5	
Dissolved Oxygen (mg/L)	Min	9.3	8.0		7.0	7.6		7.9	
	Max	11.2	10.8		12.4	10.5		10.8	
	Mean	10.0	9.3		9.2	9.2		9.5	
Dissolved Oxygen (% Saturation)	Min	91.2	80.7		70.9	79.6		82.1	
	Max	108.6	108.3		132.0	115.5		117.7	
	Mean	96.5	91.7		95.4	95.6		98.0	
pH	Min	7.8	7.5		7.4	7.8		7.7	
	Max	8.2	7.9		8.1	8.3		8.2	
	Mean	7.9	7.7		7.7	8.0		8.0	
Turbidity (NTU)	Min	1.6	1.7		0.8	0.3		1.2	
	Max	11.2	5.0		30.9	2.9		2.6	
	Mean	2.7	2.7		3.0	1.0		1.8	

*Station operated seasonally



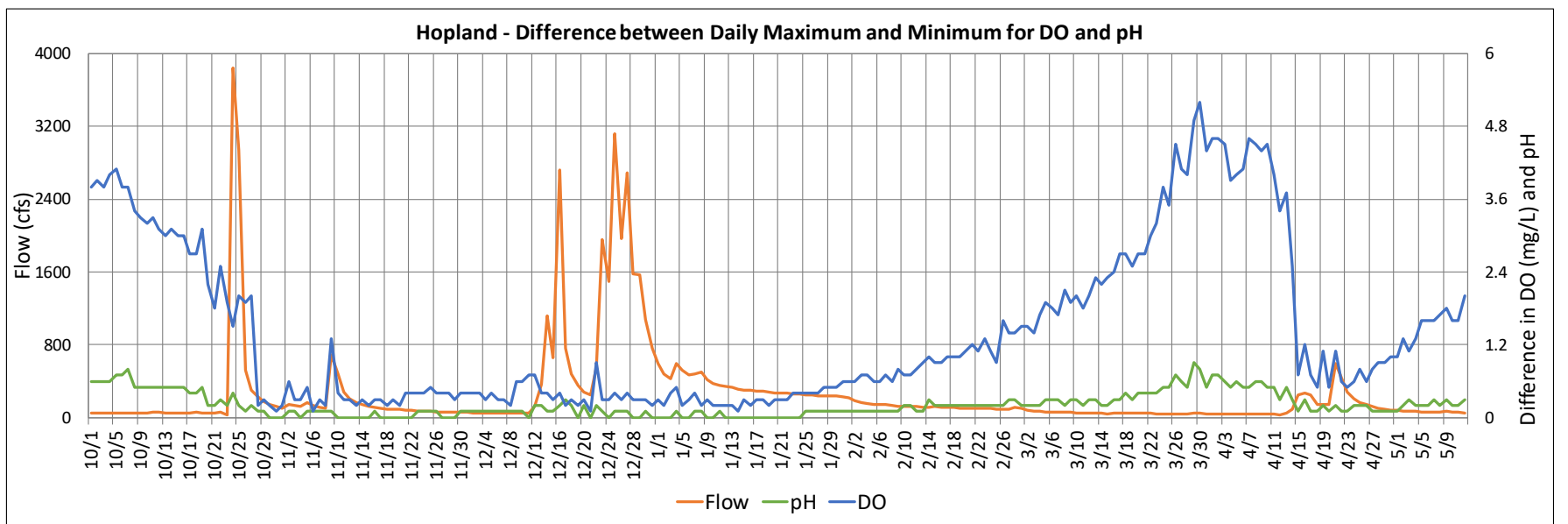
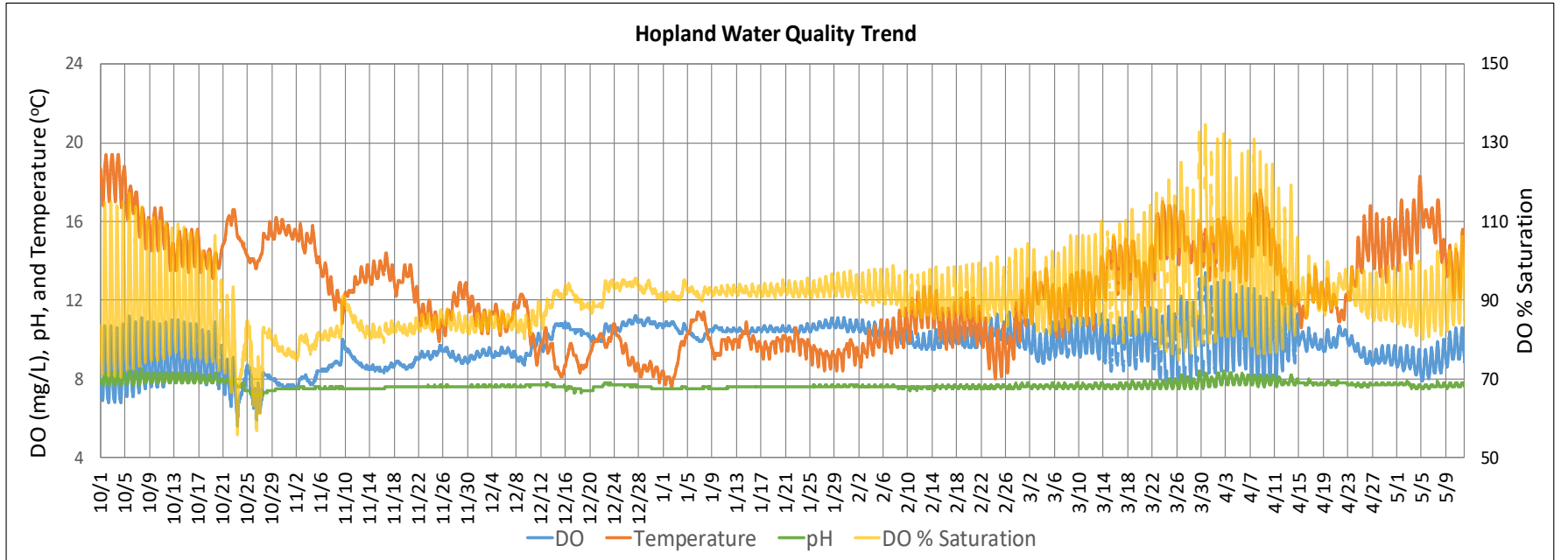
Russian River Water Quality (October 1, 2021 - May 12, 2022)

Calpella (East Fork Russian River)



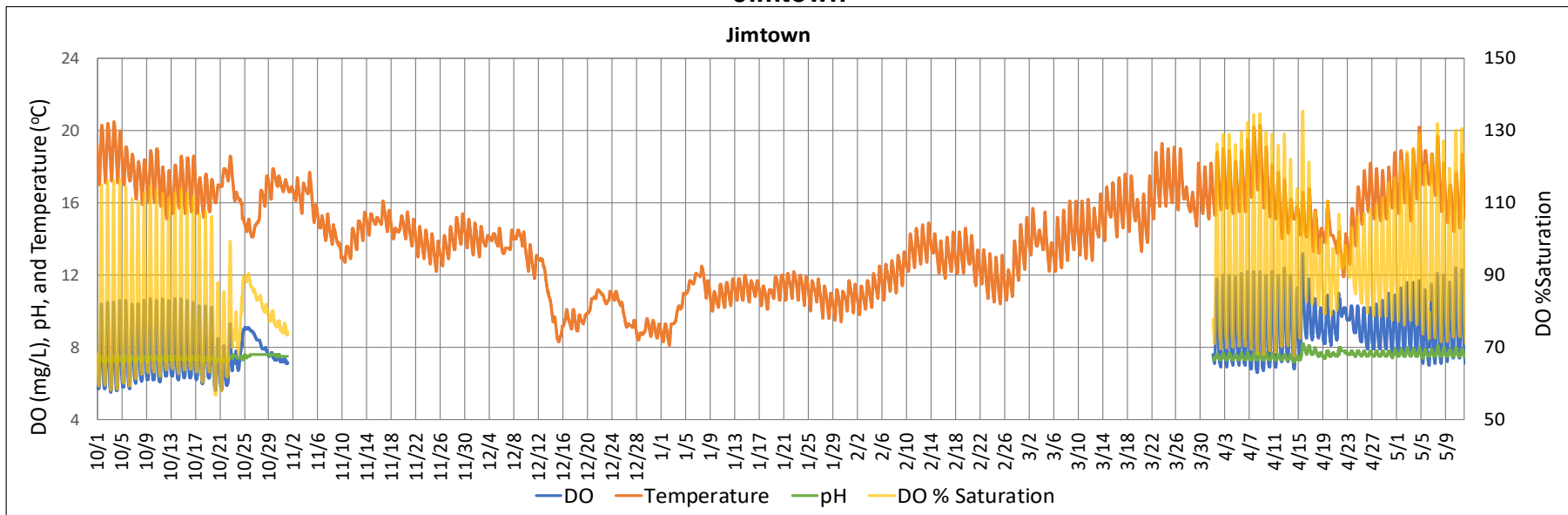
Russian River Water Quality (October 1, 2021 - May 12, 2022)

Hopland

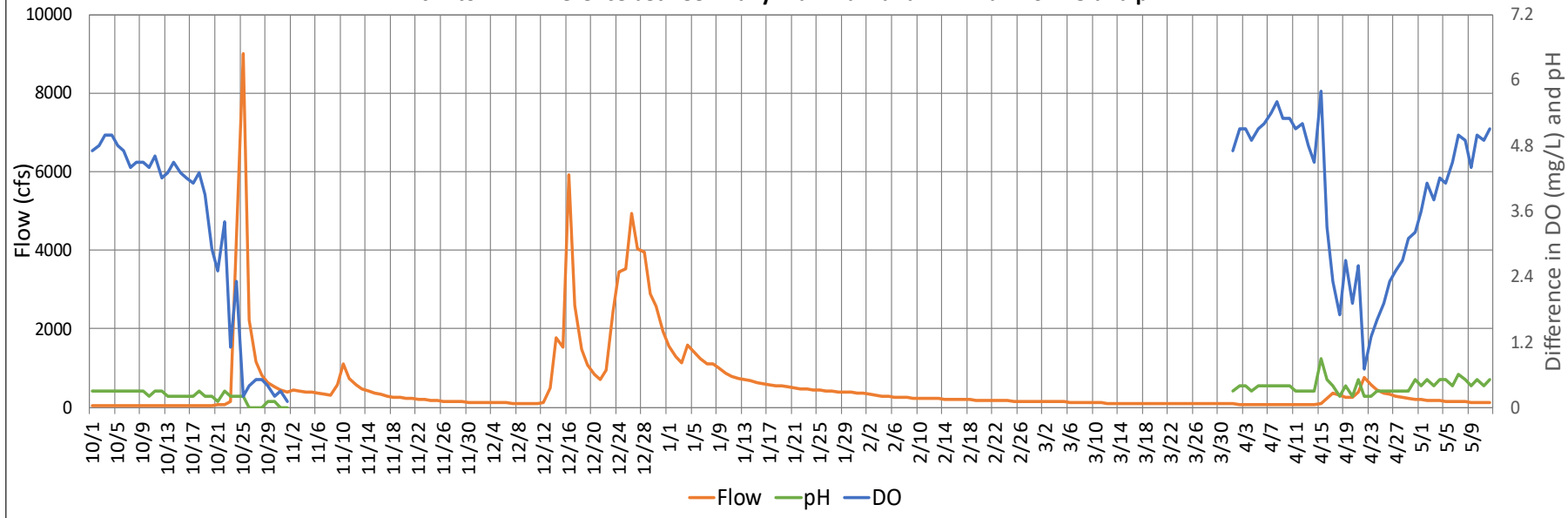


Russian River Water Quality (October 1, 2021 - May 12, 2022)

Jimtown

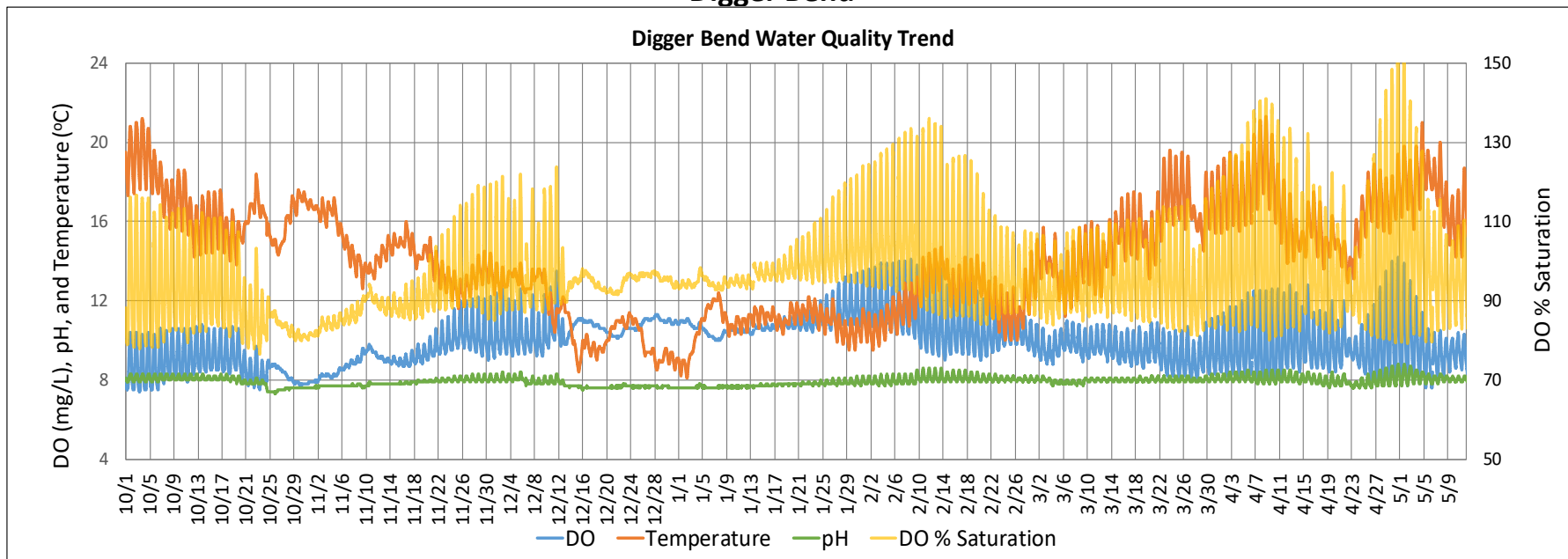


Jimtown - Difference between Daily Maximum and Minimum for DO and pH

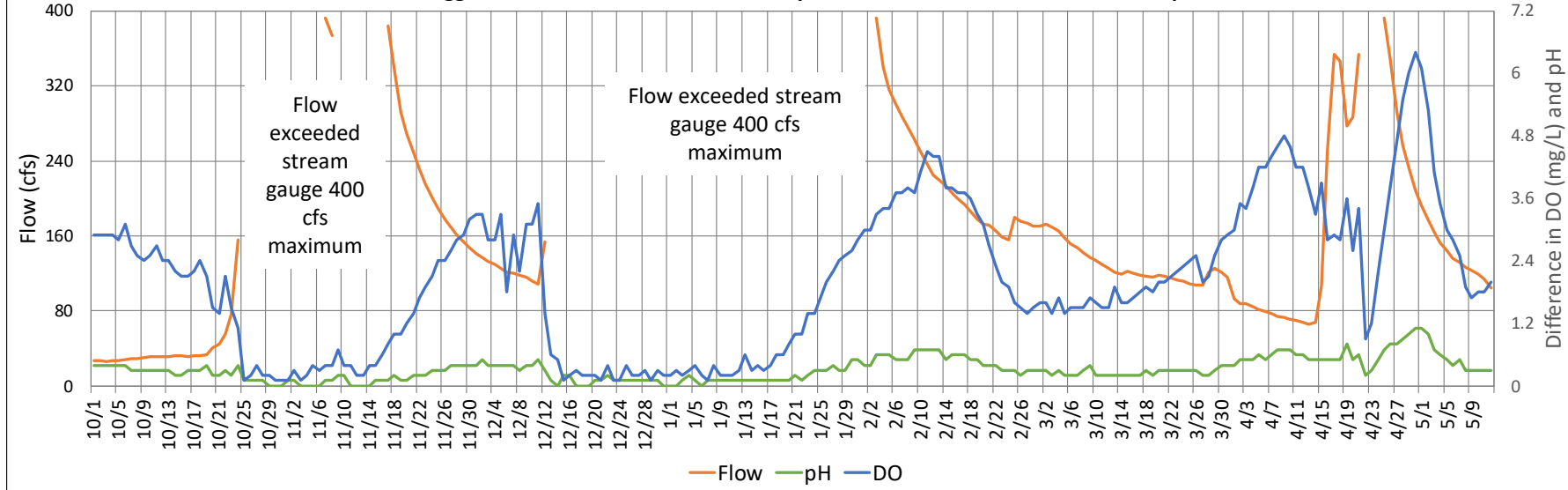


Russian River Water Quality (October 1, 2021 - May 12, 2022)

Digger Bend

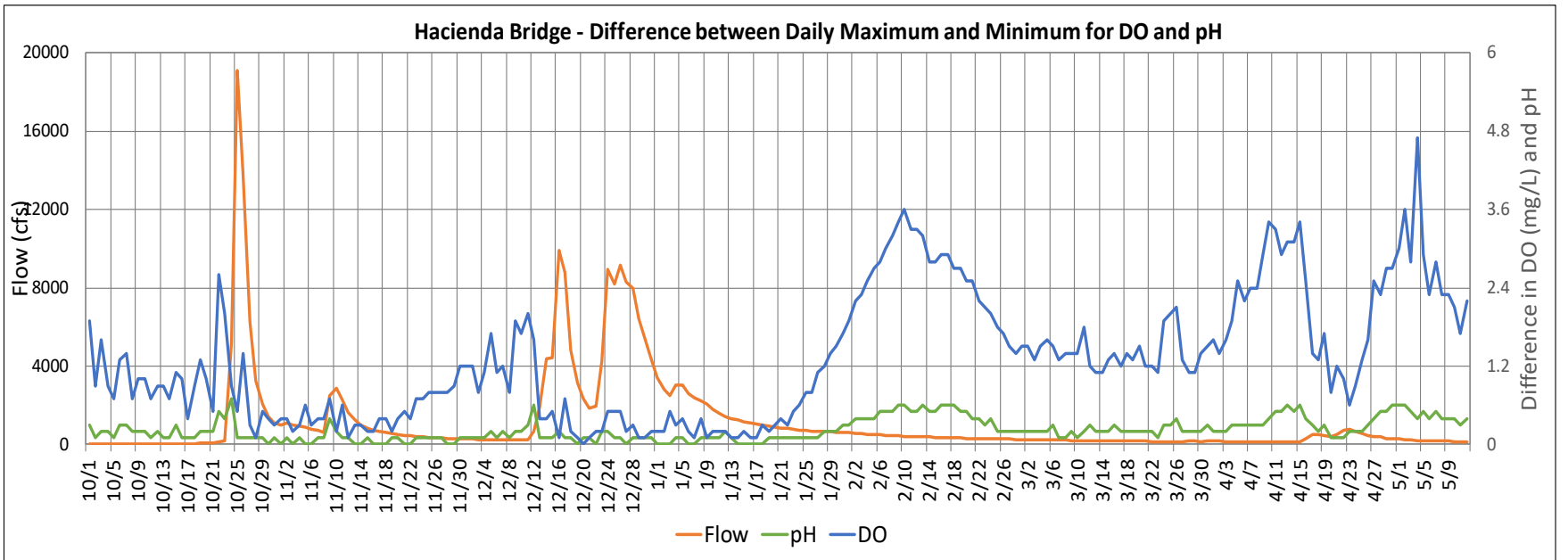
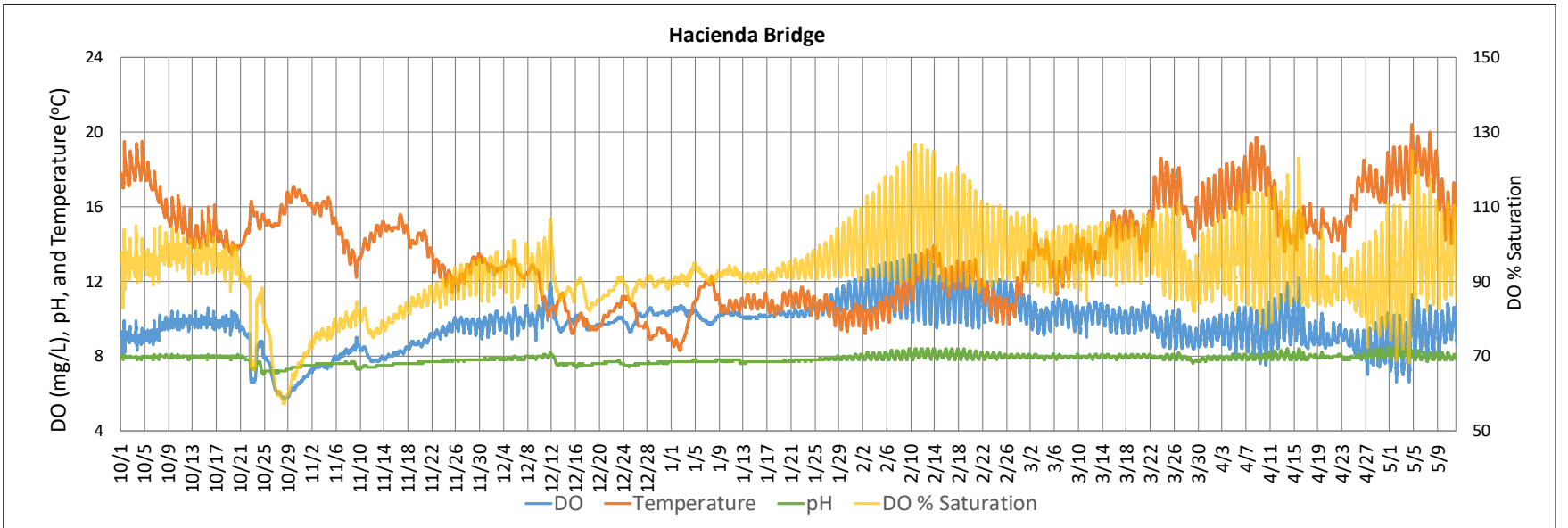


Digger Bend - Difference between Daily Maximum and Minimum for DO and pH



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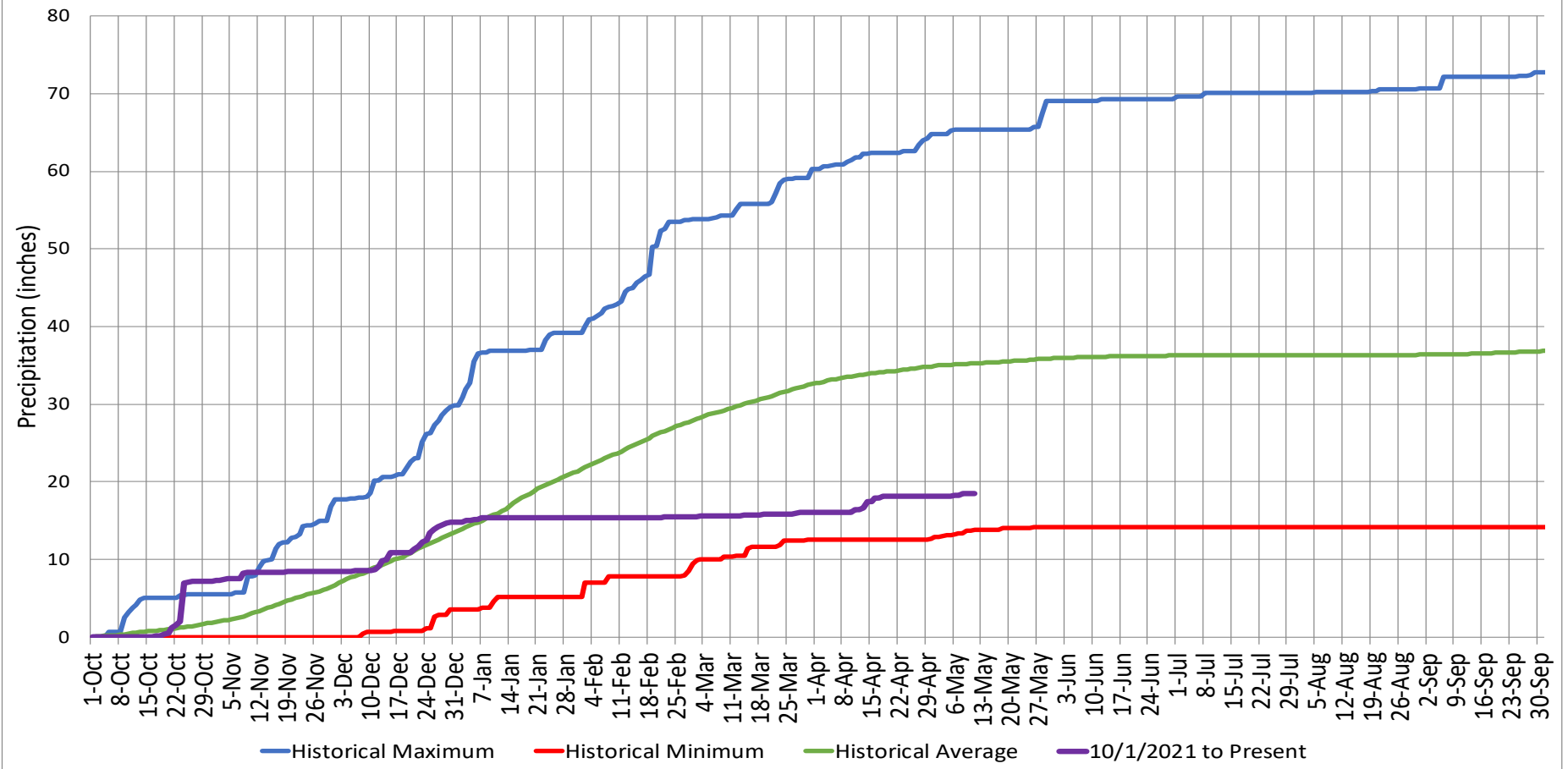
Hacienda Bridge



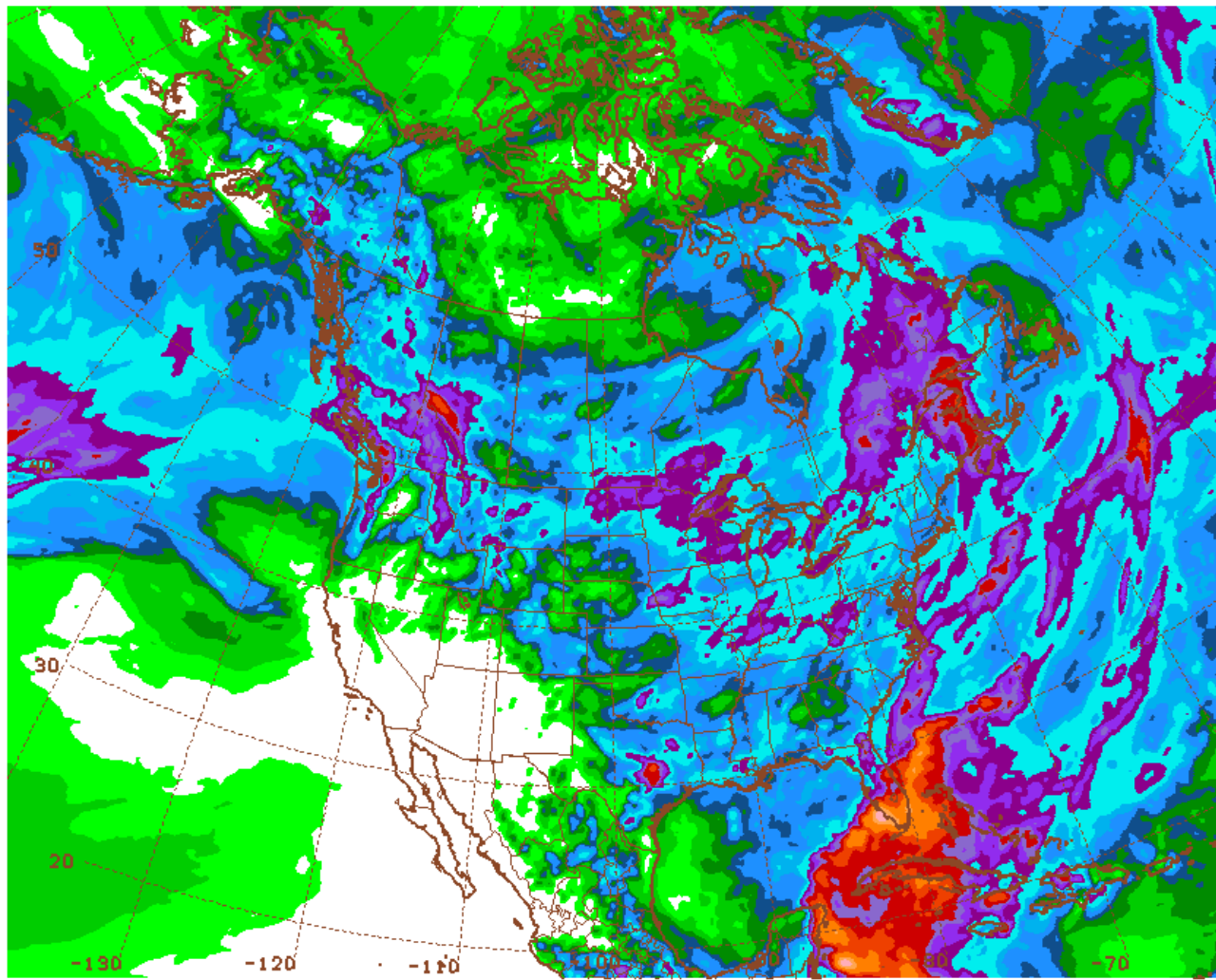
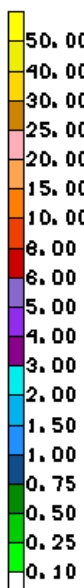
Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2021 - May 12, 2022	18.53
Last 7 Days*	0.35

Cumulative Precipitation Comparison of Current Year versus Historic Record



6FS 05/16/22 12UTC 384HR FCST VALID WED 06/01/22 12UTC NOAA/NWS/NCEP



6FS WED 220601/1200V384 384HR ACCUMULATED PRECIP (IN)

Date Range
May 16 - Jun 1, 2022

Forecasted Cumulative (inches)
0.00