



**State Water Resources Control Board
 Temporary Urgency Change Order (12/11/2021)
 Russian River Hydrologic Report
 May 20, 2022 - May 26, 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).

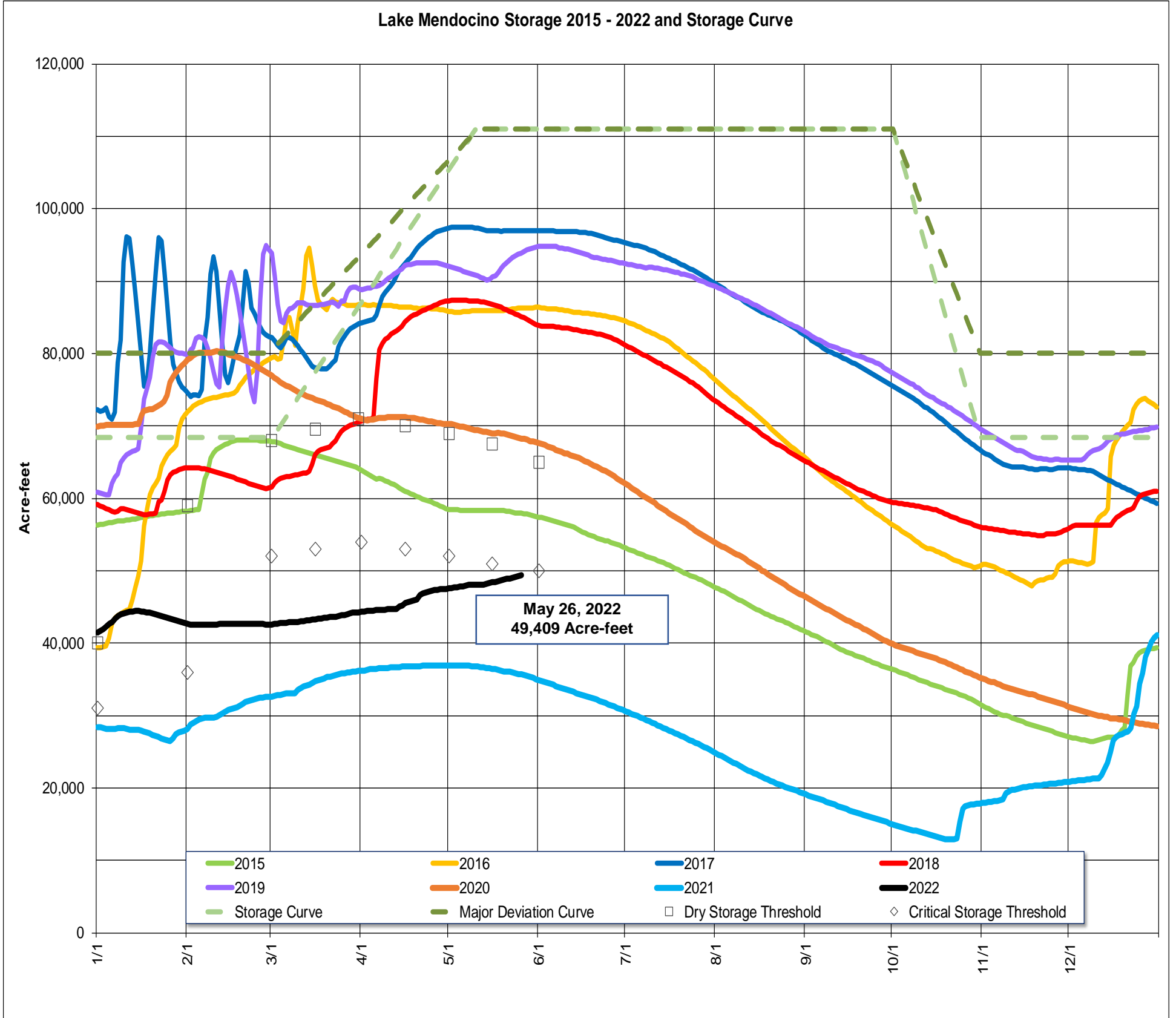
Instream Flow Requirements as of May 26, 2022

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



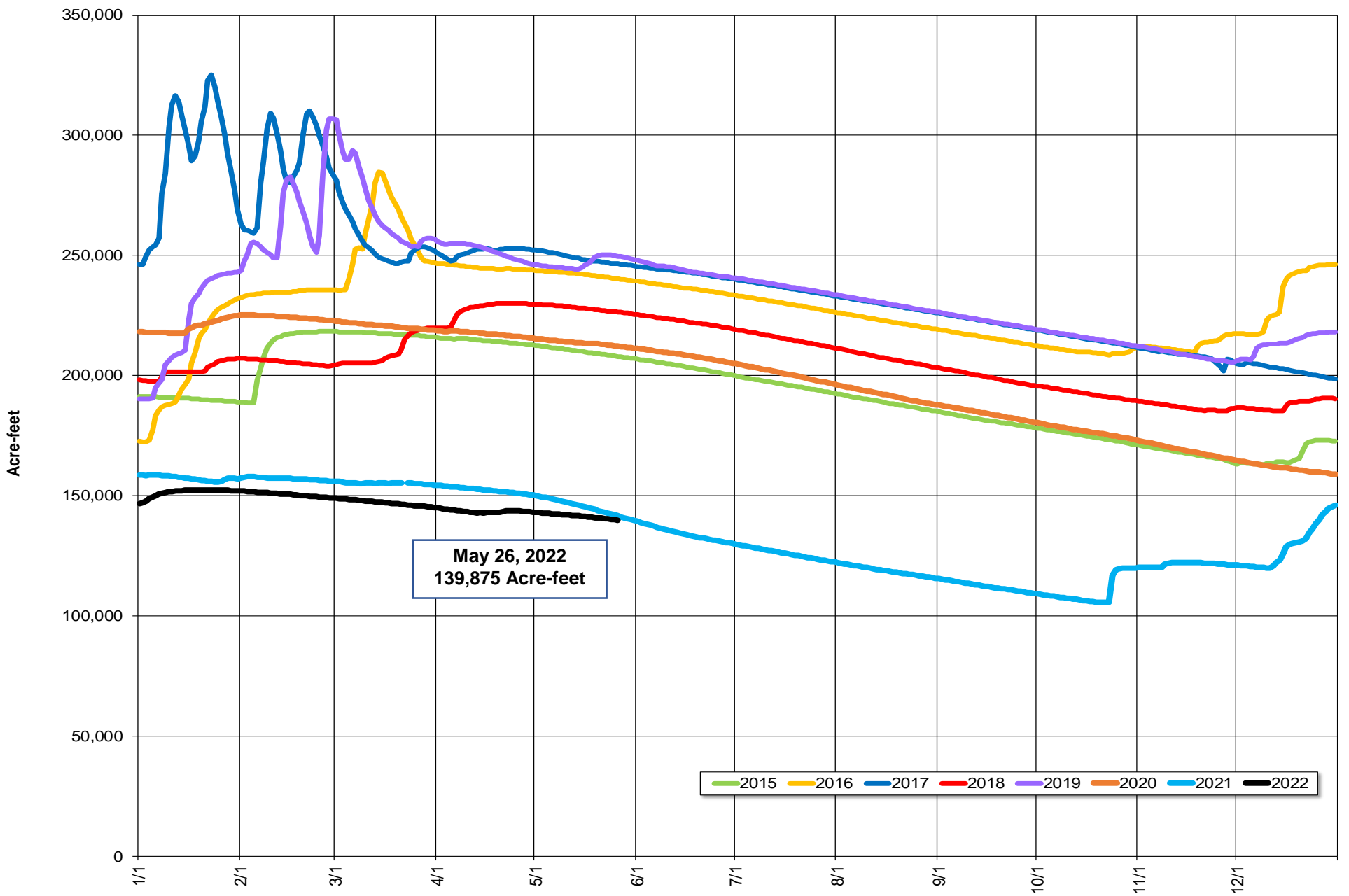
Storage (acre-feet)	May 26, 2022	49,409	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	2,110	70
	Last 7 days	628	90
Daily Inflow (cfs)	Last 7 days	Min	76
		Max	114
		Mean	92
Release (cfs)	Last 7 days	Min	26
		Max	35
		Mean	29

Lake Sonoma



Nathan Baskett, March 3, 2011

Lake Sonoma Storage 2015-2022



Storage (acre-feet)	May 26, 2022	139,875	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	-3,725	-124
	Last 7 days	-925	-132
Daily Inflow (cfs)	Last 7 days	Min	0
		Max	18
		Mean	5
Release (cfs)	Last 7 days	Min	65
		Max	66
		Mean	66

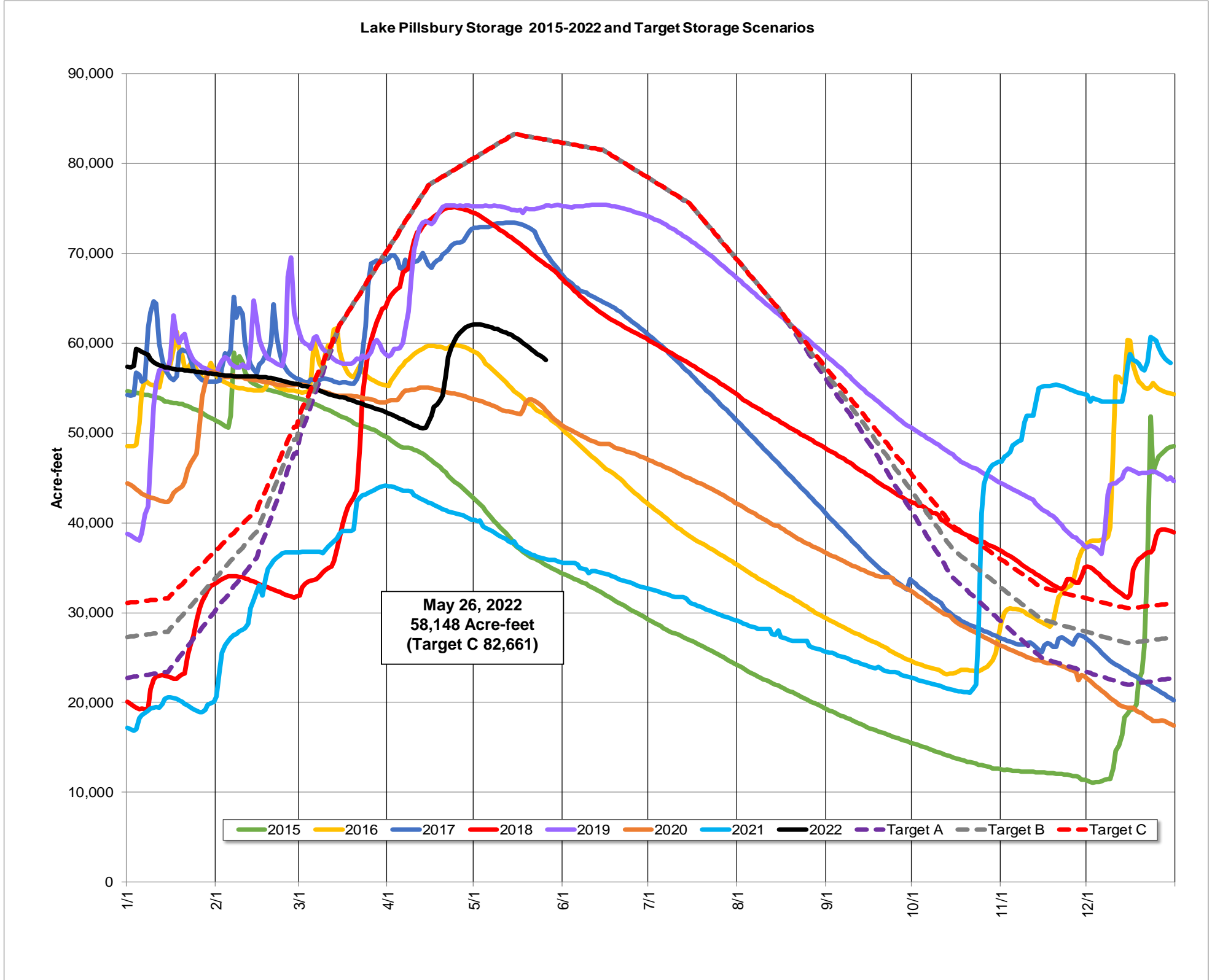
Potter Valley Project

PVP Diversion (cfs)	May 26, 2022	111
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Lake Pillsbury

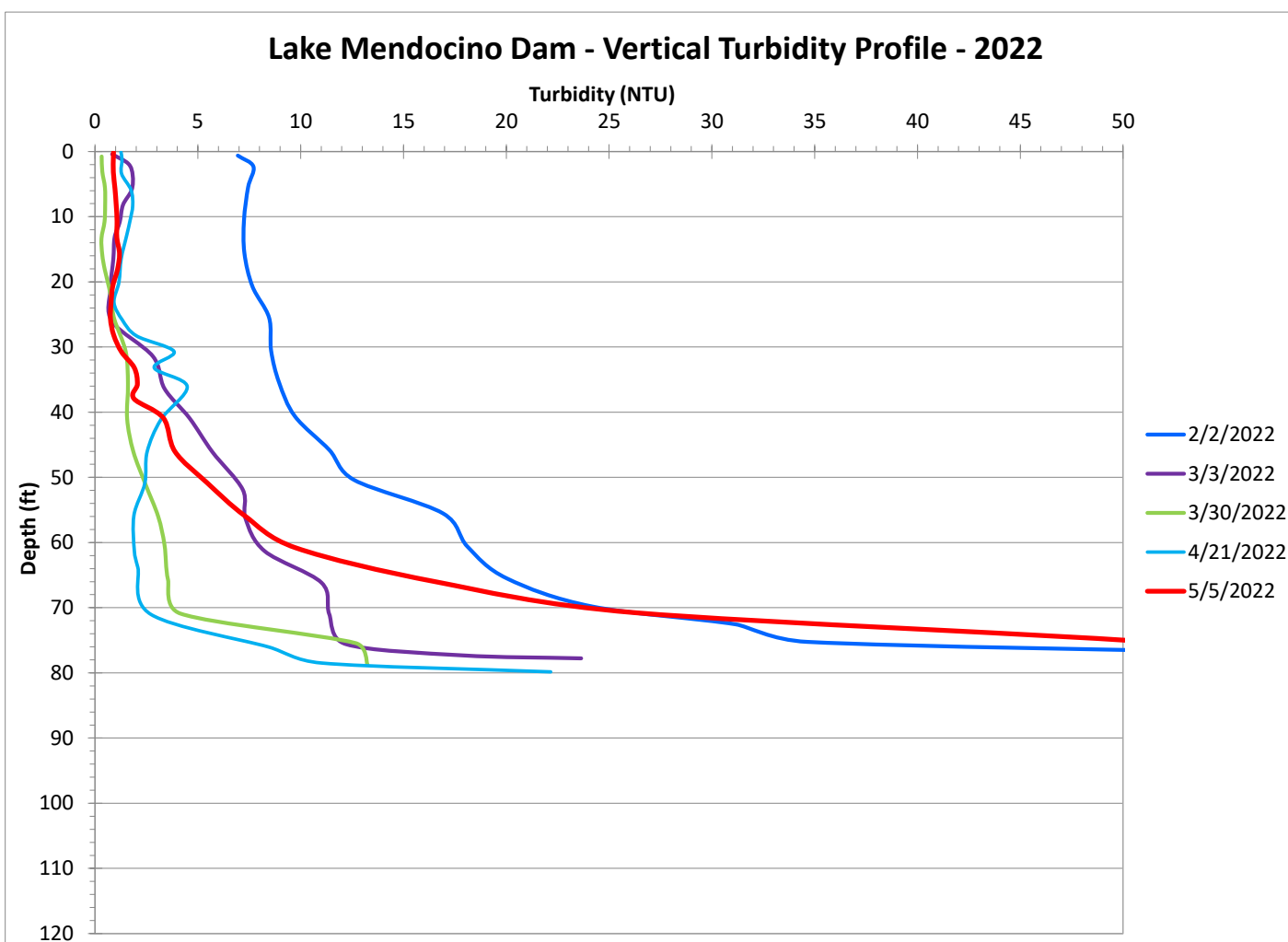
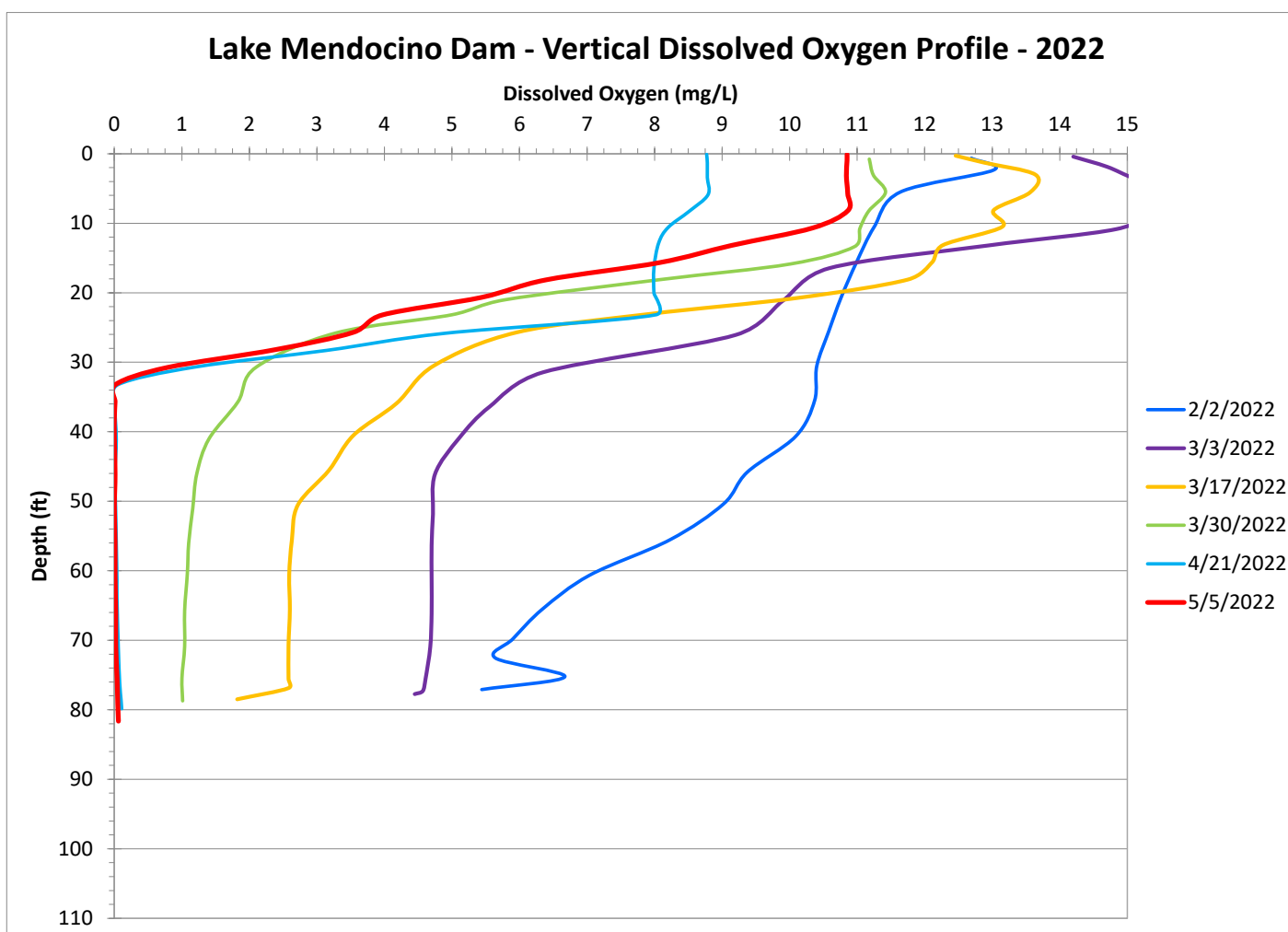
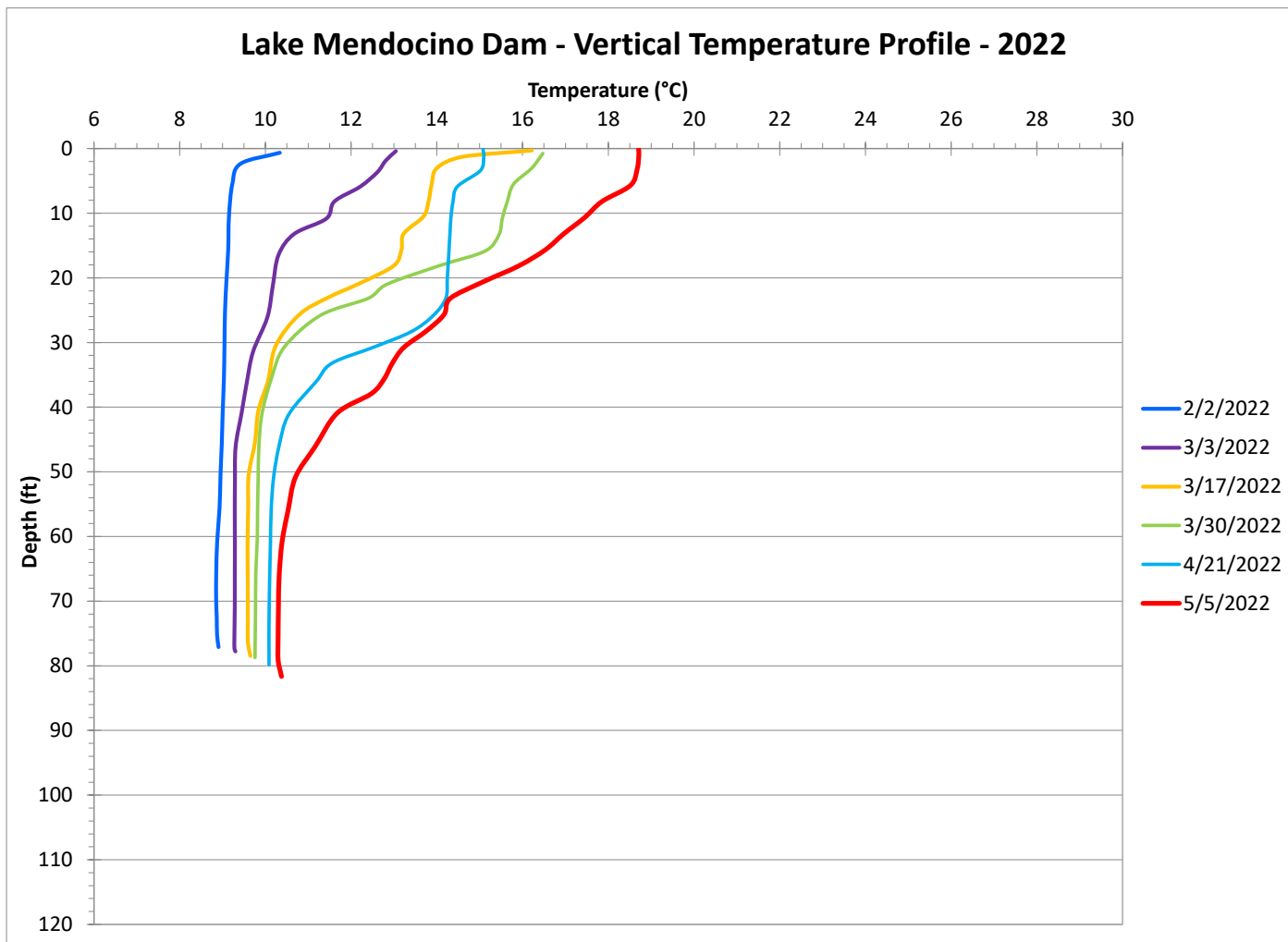
Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2021 - May 26, 2022	227,048	958
	Last 7 days	2,776	397

*Inflow calculation based on criteria established in D1610



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

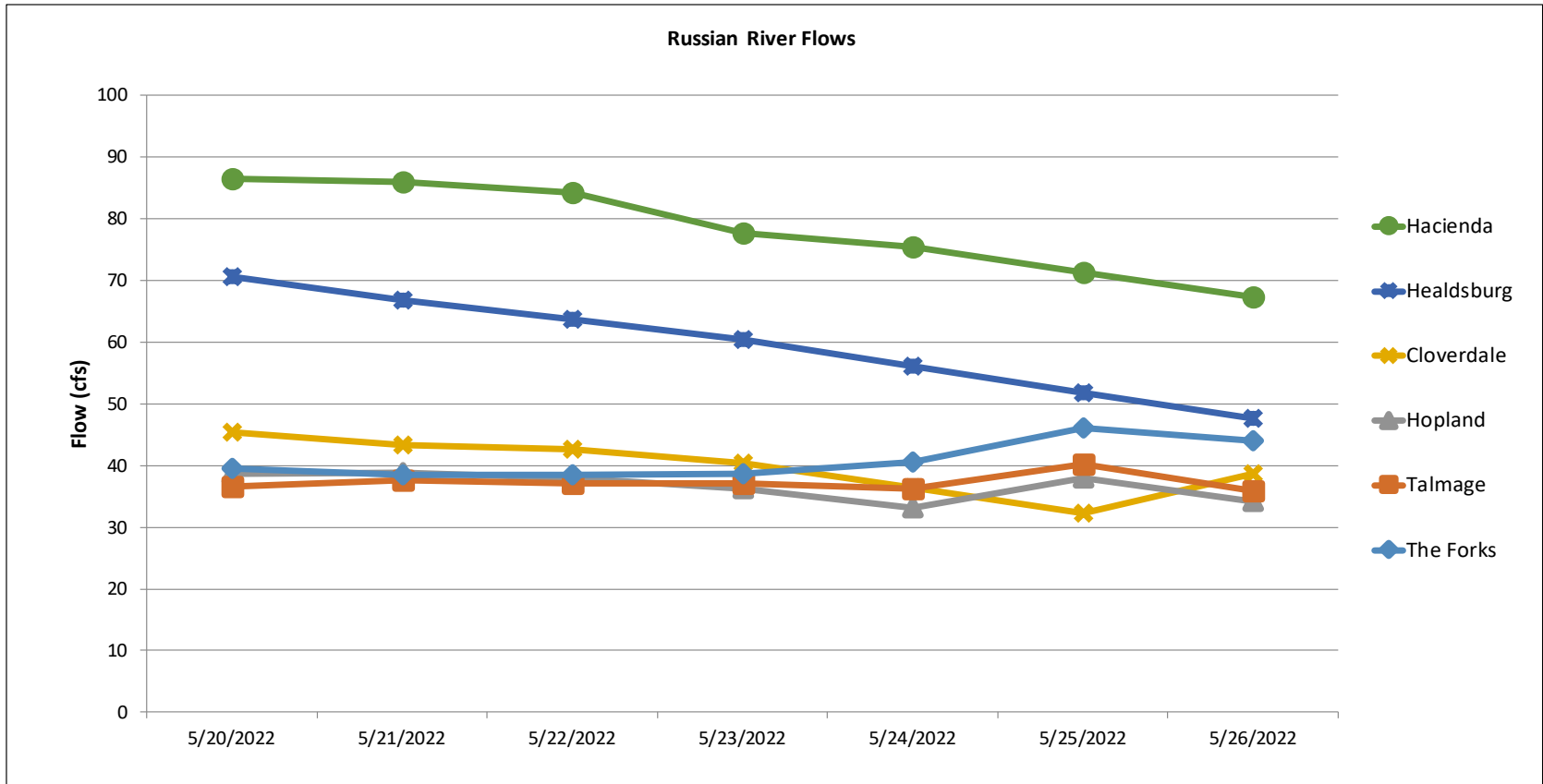
Provisional Data Subject to Revision



Russian River Flows (May 20, 2022 - May 26, 2022)

Gage	24-hr Average Flow (cfs)						
	May 20, 2022	May 21, 2022	May 22, 2022	May 23, 2022	May 24, 2022	May 25, 2022	May 26, 2022
The Forks*	39	39	38	39	41	46	44
Talmage USGS 11462080	37	38	37	37	36	40	36
Hopland USGS 11462500	39	39	38	36	33	38	34
Cloverdale USGS 11463000	45	43	43	40	36	32	39
Healdsburg USGS 11464000	71	67	64	60	56	52	48
Hacienda USGS 11467000	86	86	84	78	75	71	67

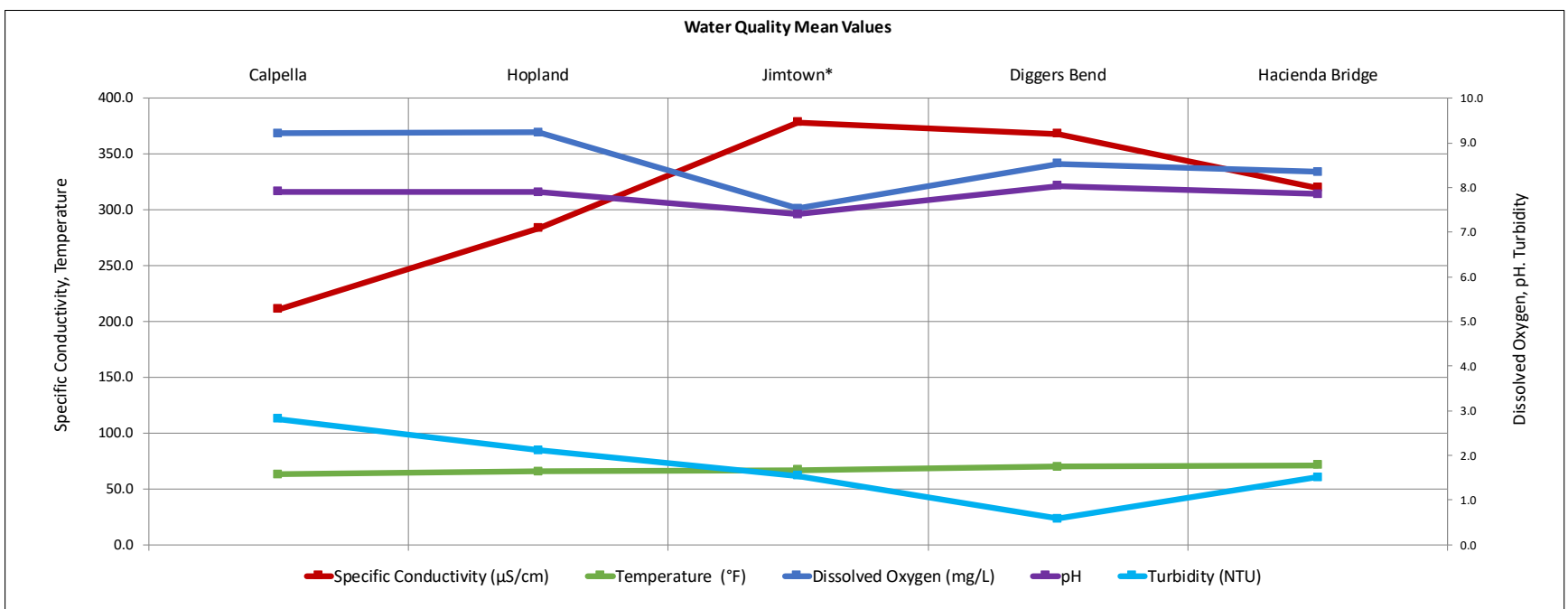
*West Fork (USGS 11461000) + East Fork (Coyote Valley Dam Release)



Russian River Water Quality (May 20, 2022 - May 26, 2022)

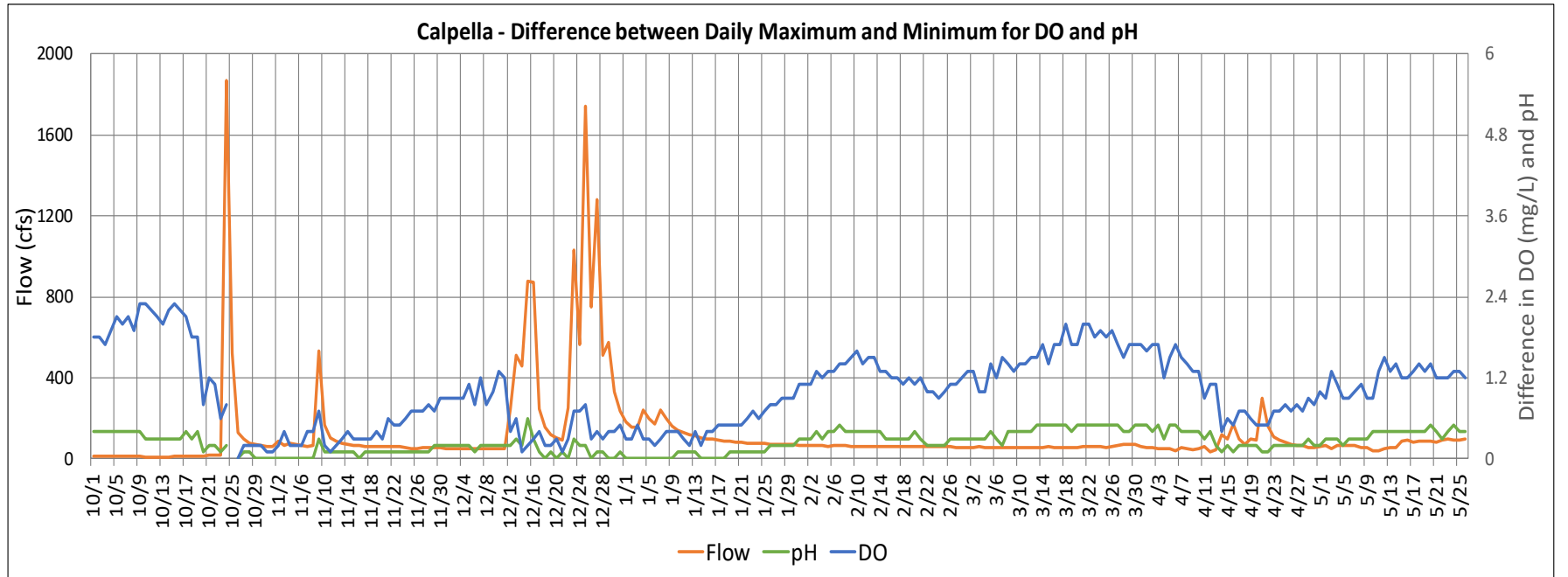
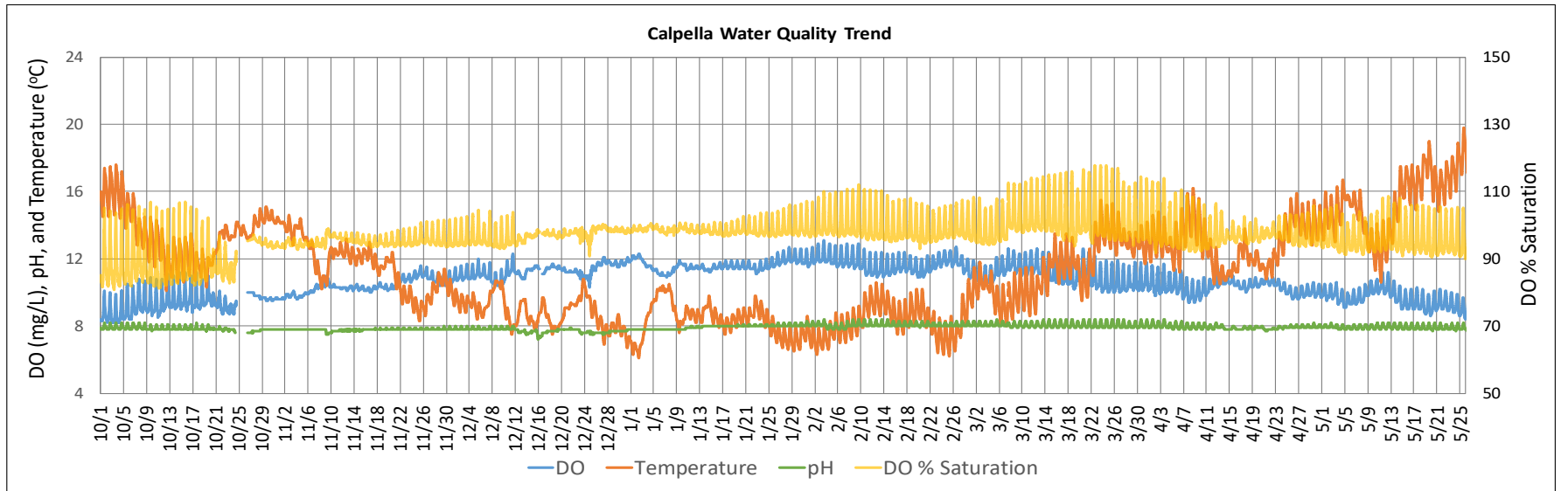
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	58.6	60.6		61.5	63.3		66.9	
	Max	67.6	70.7		73.2	77.9		76.1	
	Mean	62.9	65.7		66.9	70.1		71.4	
Specific Conductivity (µS/cm)	Min	206.0	276.0		374.0	362.0		317.0	
	Max	215.0	290.0		383.0	374.0		325.0	
	Mean	211.0	283.5		378.7	368.4		320.0	
Dissolved Oxygen (mg/L)	Min	8.4	6.5		5.4	6.4		7.4	
	Max	10.2	12.4		10.2	11.1		9.4	
	Mean	9.2	9.2		7.5	8.5		8.3	
Dissolved Oxygen (% Saturation)	Min	90.0	69.2		57.7	71.1		80.9	
	Max	105.6	134.7		114.8	128.9		108.8	
	Mean	95.7	99.2		82.2	96.4		95.3	
pH	Min	7.7	7.5		7.3	7.7		7.7	
	Max	8.2	8.4		7.6	8.4		8.1	
	Mean	7.9	7.9		7.4	8.0		7.9	
Turbidity (NTU)	Min	1.8	1.2		1.1	0.0		0.8	
	Max	4.4	3.2		2.0	2.1		2.7	
	Mean	2.8	2.1		1.5	0.6		1.5	

*Station operated seasonally



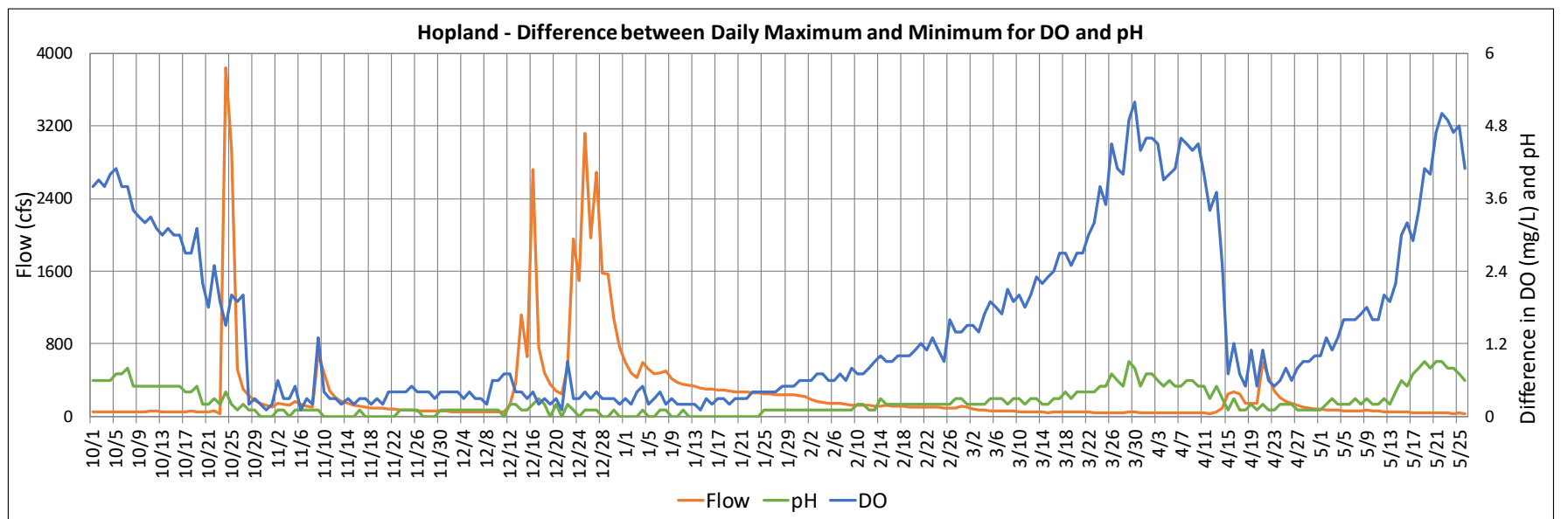
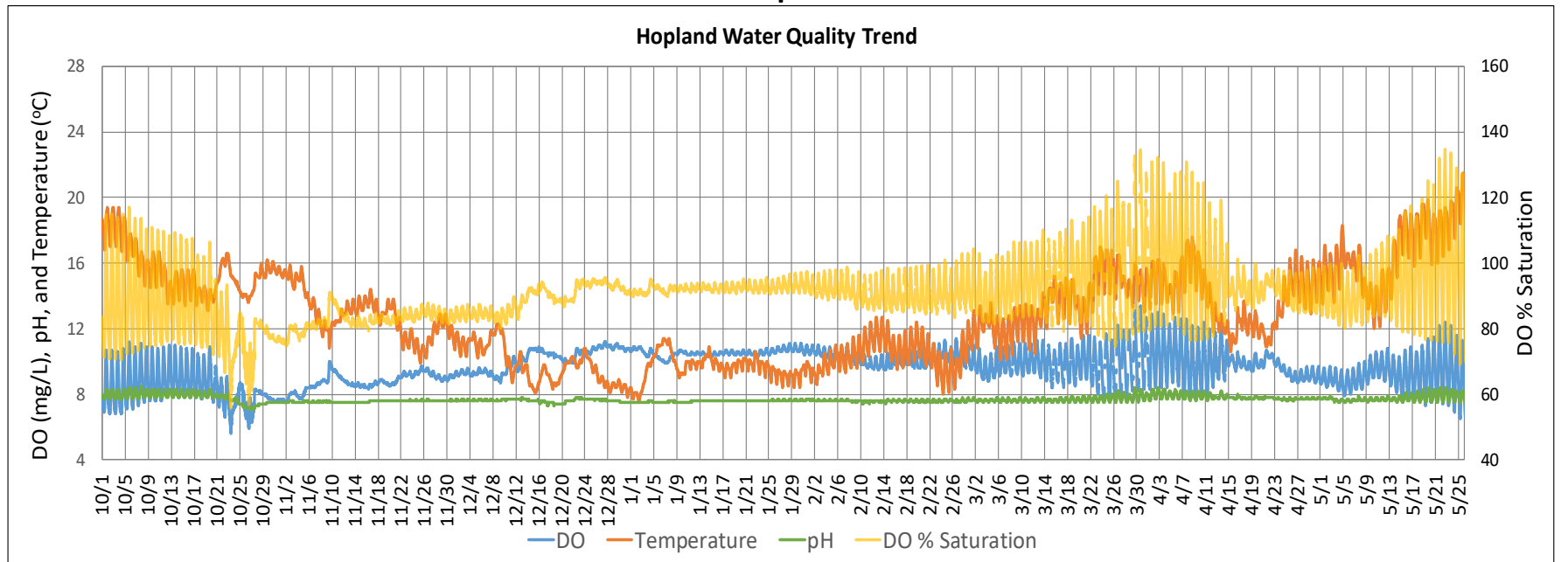
Russian River Water Quality (October 1, 2021 - May 26, 2022)

Calpella (East Fork Russian River)



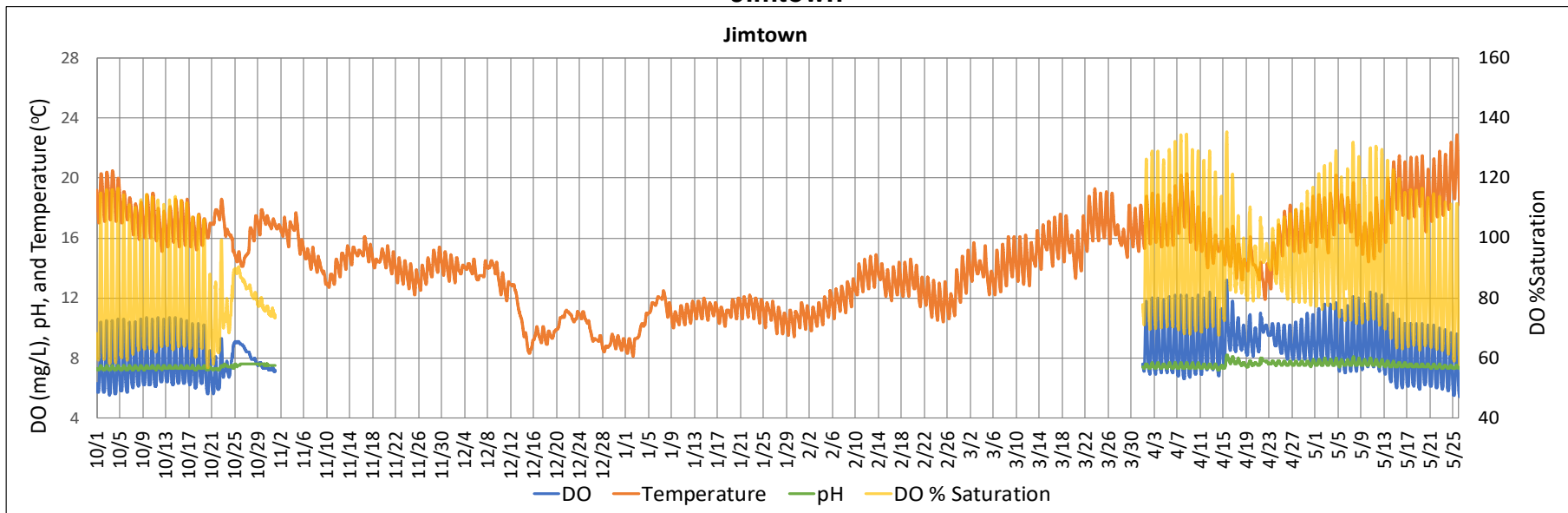
Russian River Water Quality (October 1, 2021 - May 26, 2022)

Hopland

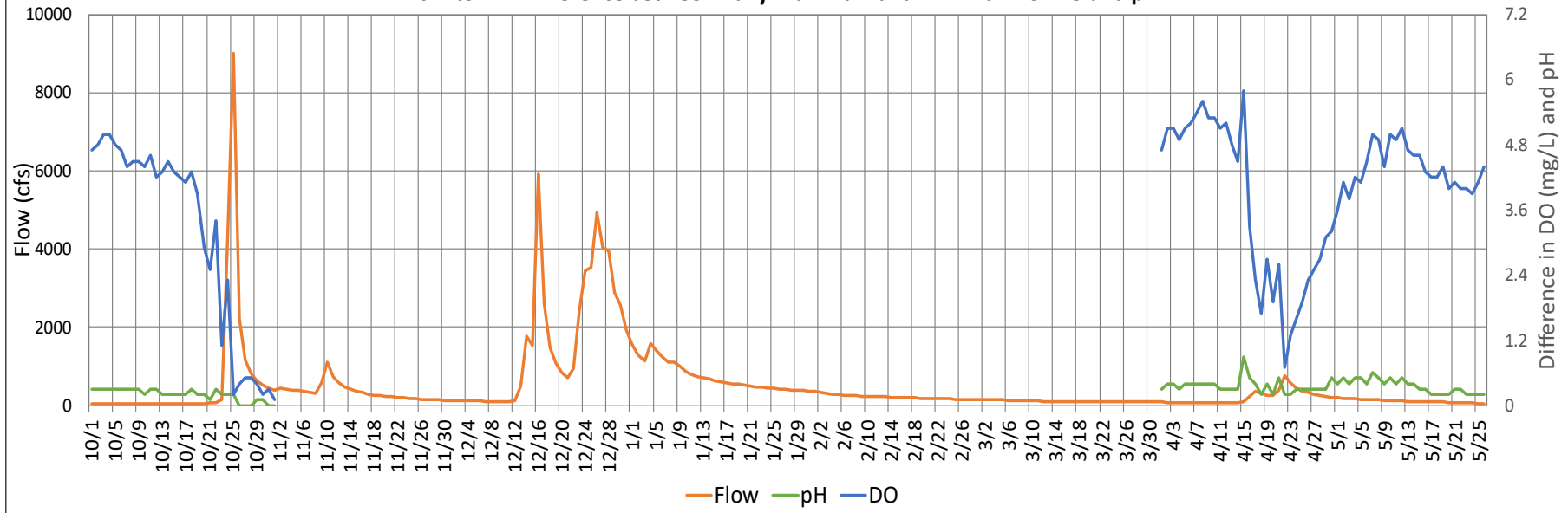


Russian River Water Quality (October 1, 2021 - May 26, 2022)

Jimtown

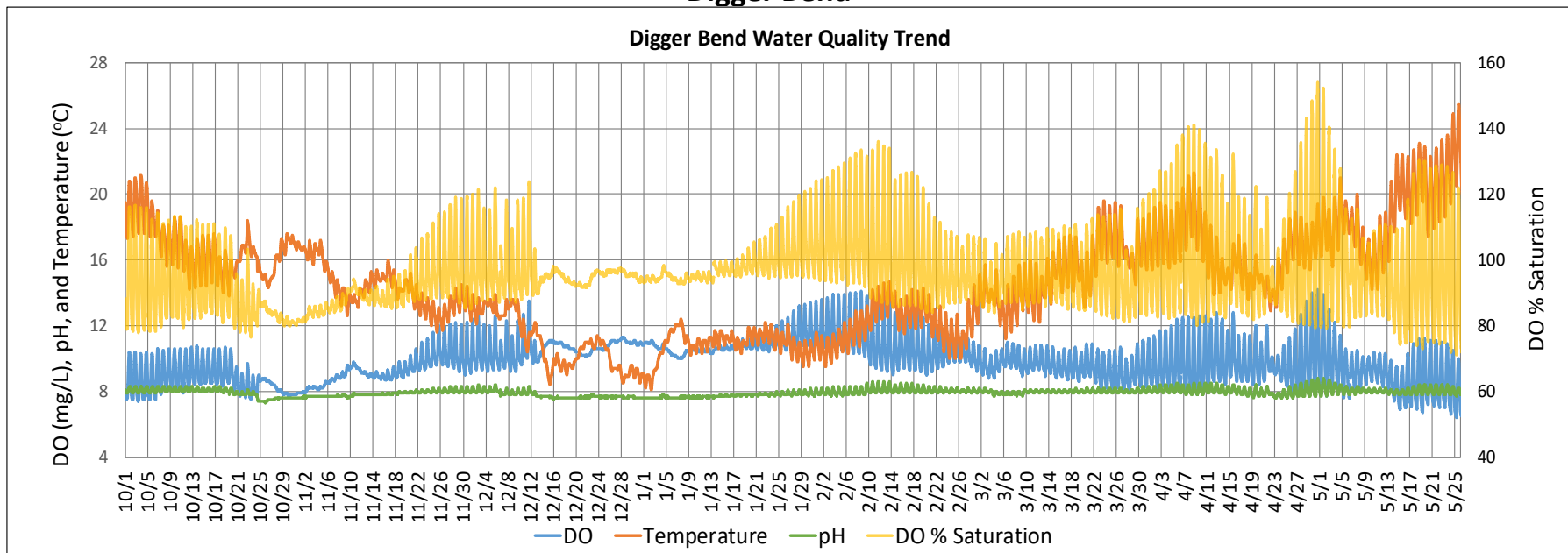


Jimtown - Difference between Daily Maximum and Minimum for DO and pH

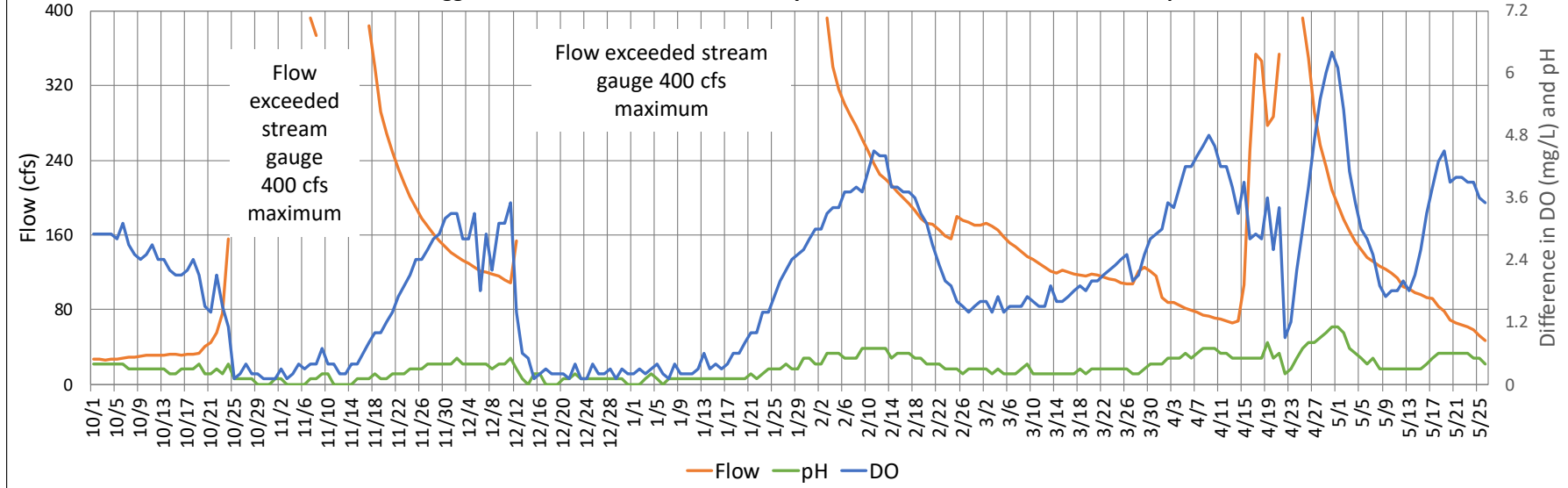


Russian River Water Quality (October 1, 2021 - May 26, 2022)

Digger Bend

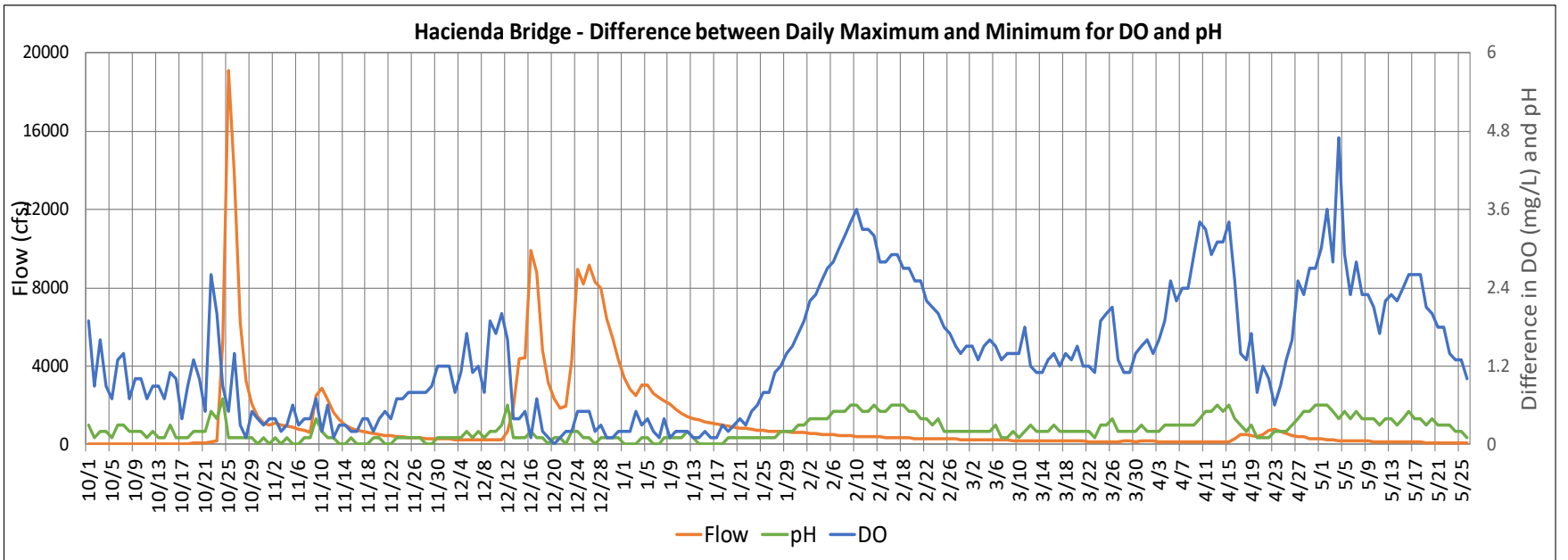
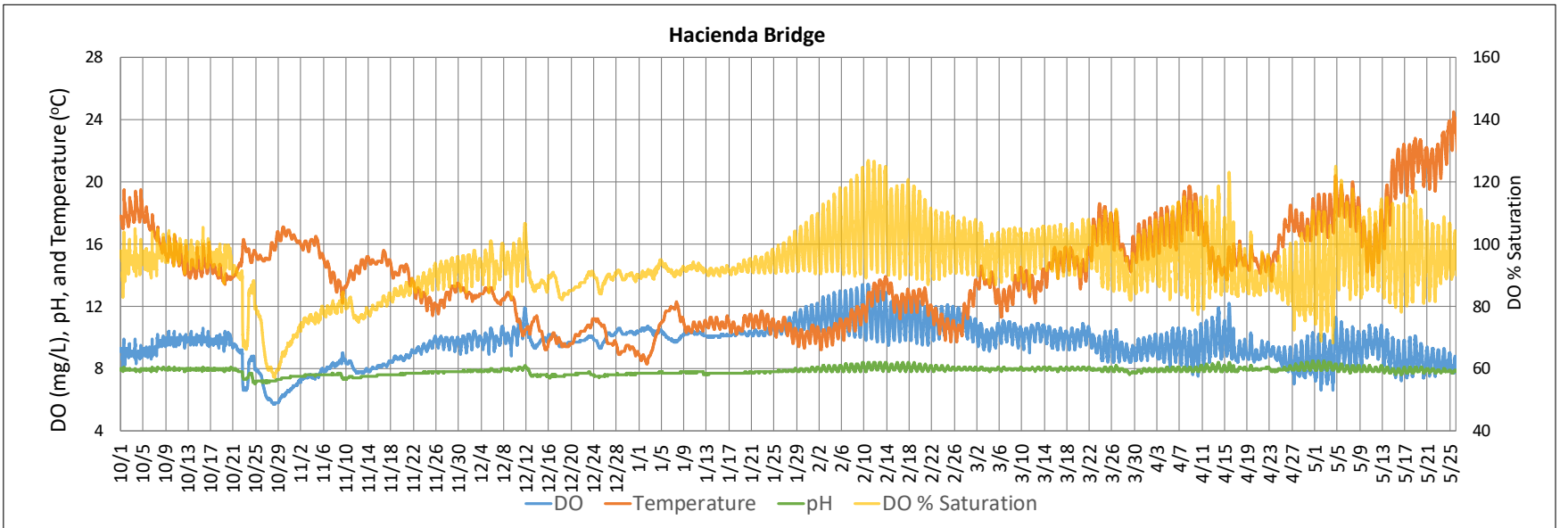


Digger Bend - Difference between Daily Maximum and Minimum for DO and pH



Russian River Water Quality (October 1, 2021 - May 26, 2022)

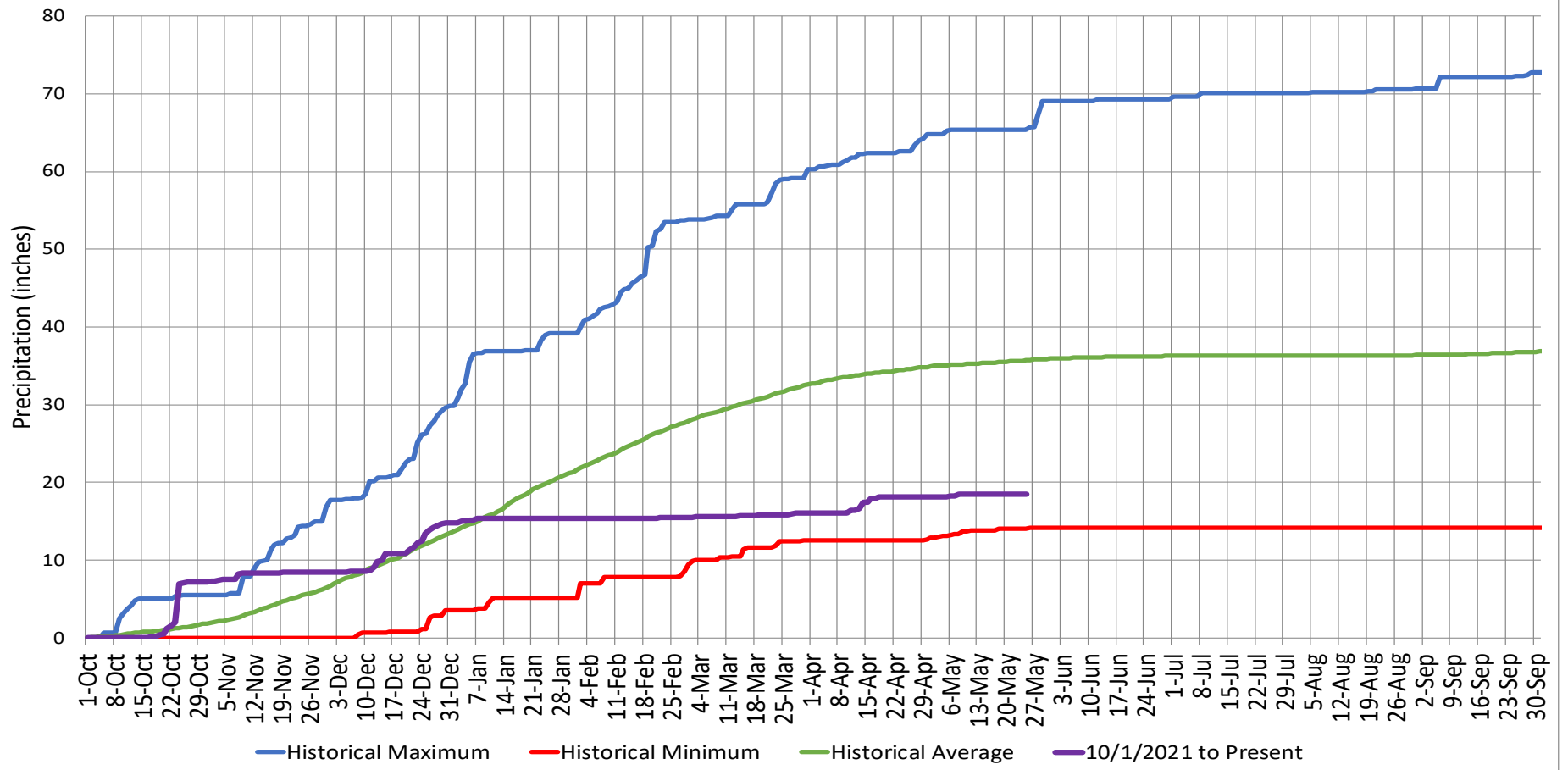
Hacienda Bridge



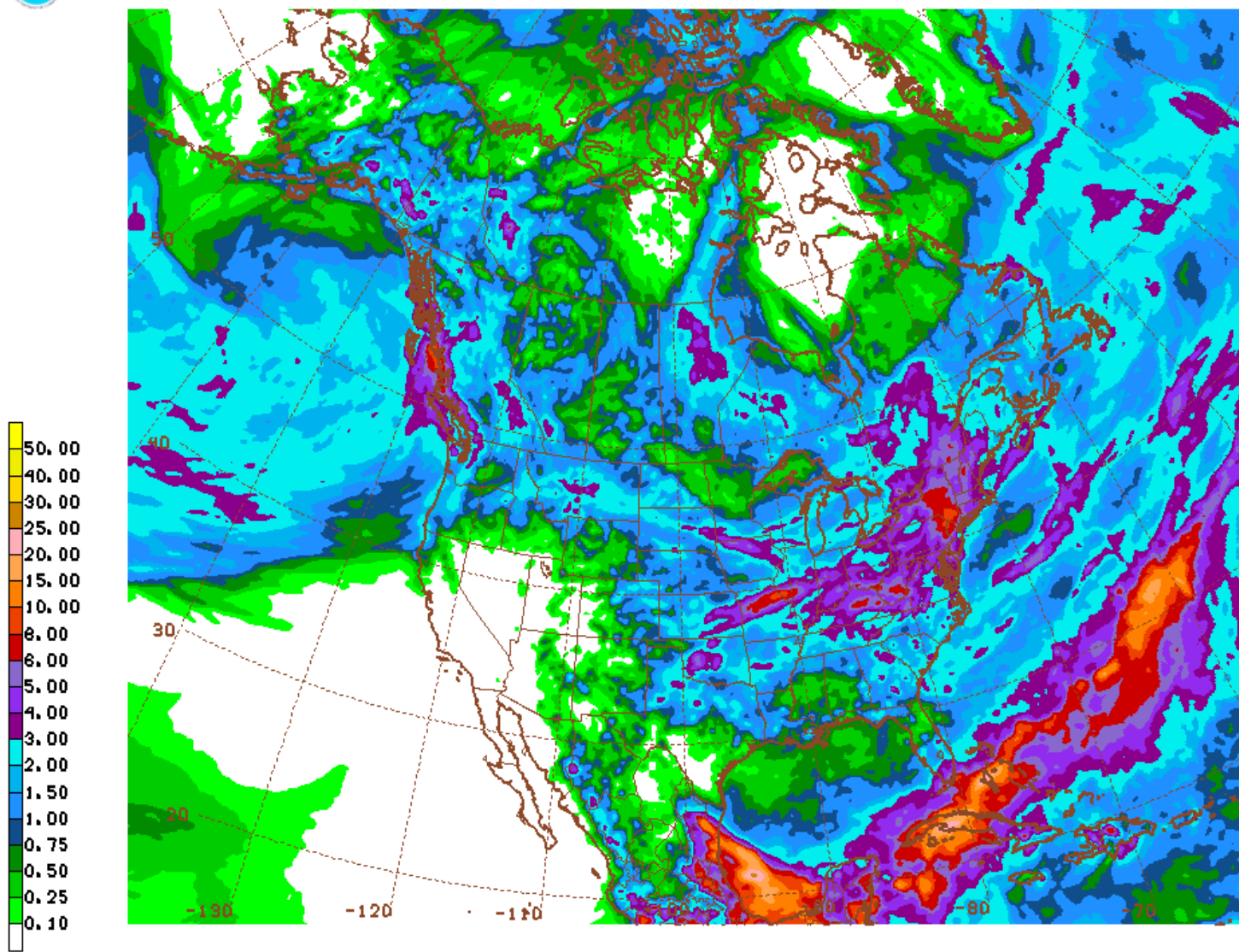
Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2021 - May 26, 2022	18.53
Last 7 Days*	0.00

Cumulative Precipitation Comparison of Current Year versus Historic Record



GFS 05/31/22 12UTC 384HR FCST VALID THU 06/16/22 12UTC NOAA/NWS/NCEP



GFS THU 220616/1200V384 384HR ACCUMULATED PRECIP (IN)

Date Range	Forecasted Cumulative (inches)
May 31 - Jun 16, 2022	0.15