



**State Water Resources Control Board  
 Temporary Urgency Change Order (12/11/2021)  
 Russian River Hydrologic Report  
 May 13, 2022 - May 19, 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).

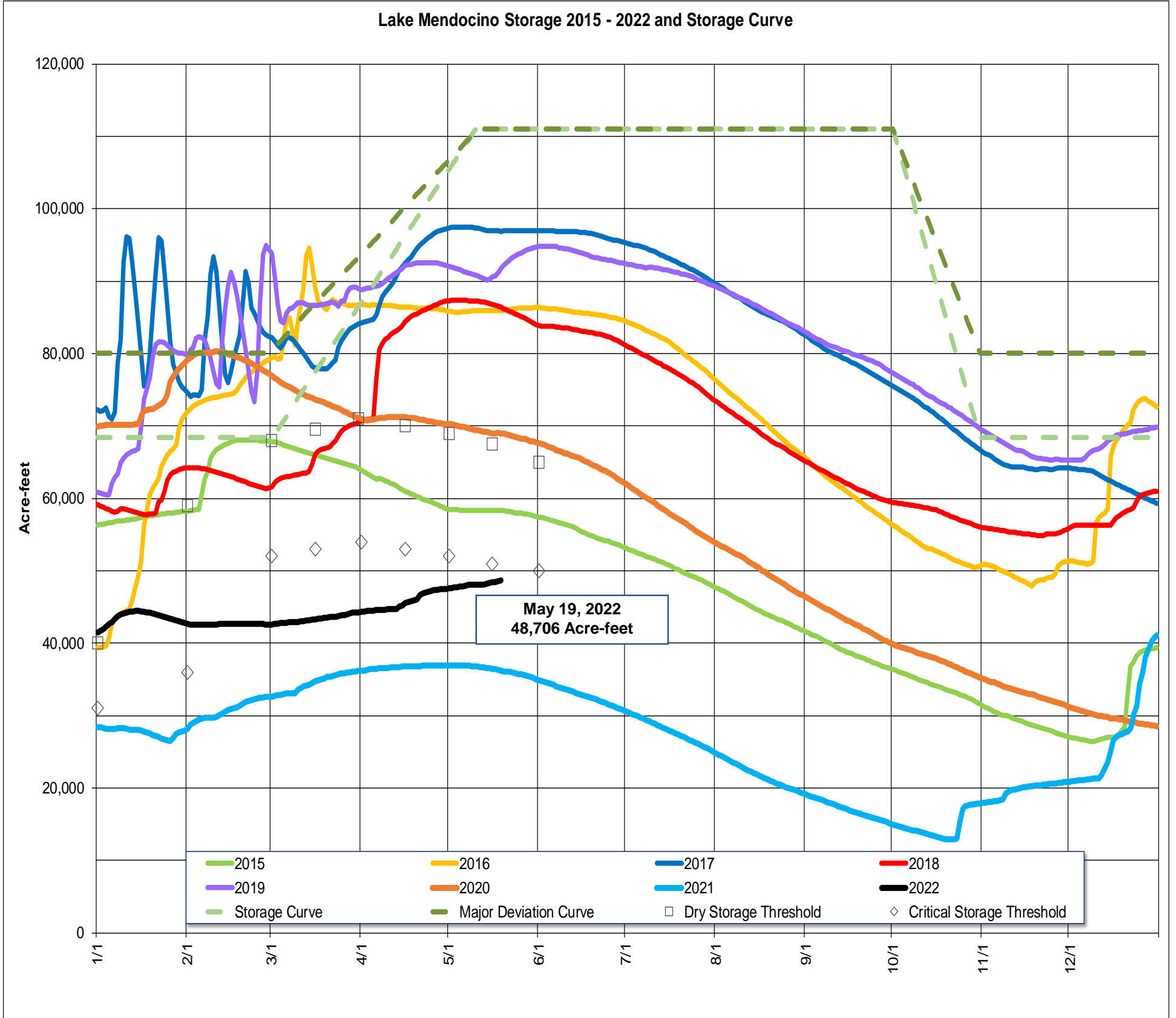
**Instream Flow Requirements as of May 19, 2022**

Basis	Reach	Instantaneous (cfs)	5-day Average (cfs)
Modified Per Order: Critical Condition	Upper Russian River	<b>25</b>	-
Modified Per Order: Critical Condition	Dry Creek	<b>25</b>	-
Modified Per Order: Critical Condition	Lower Russian River	<b>35</b>	-

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**

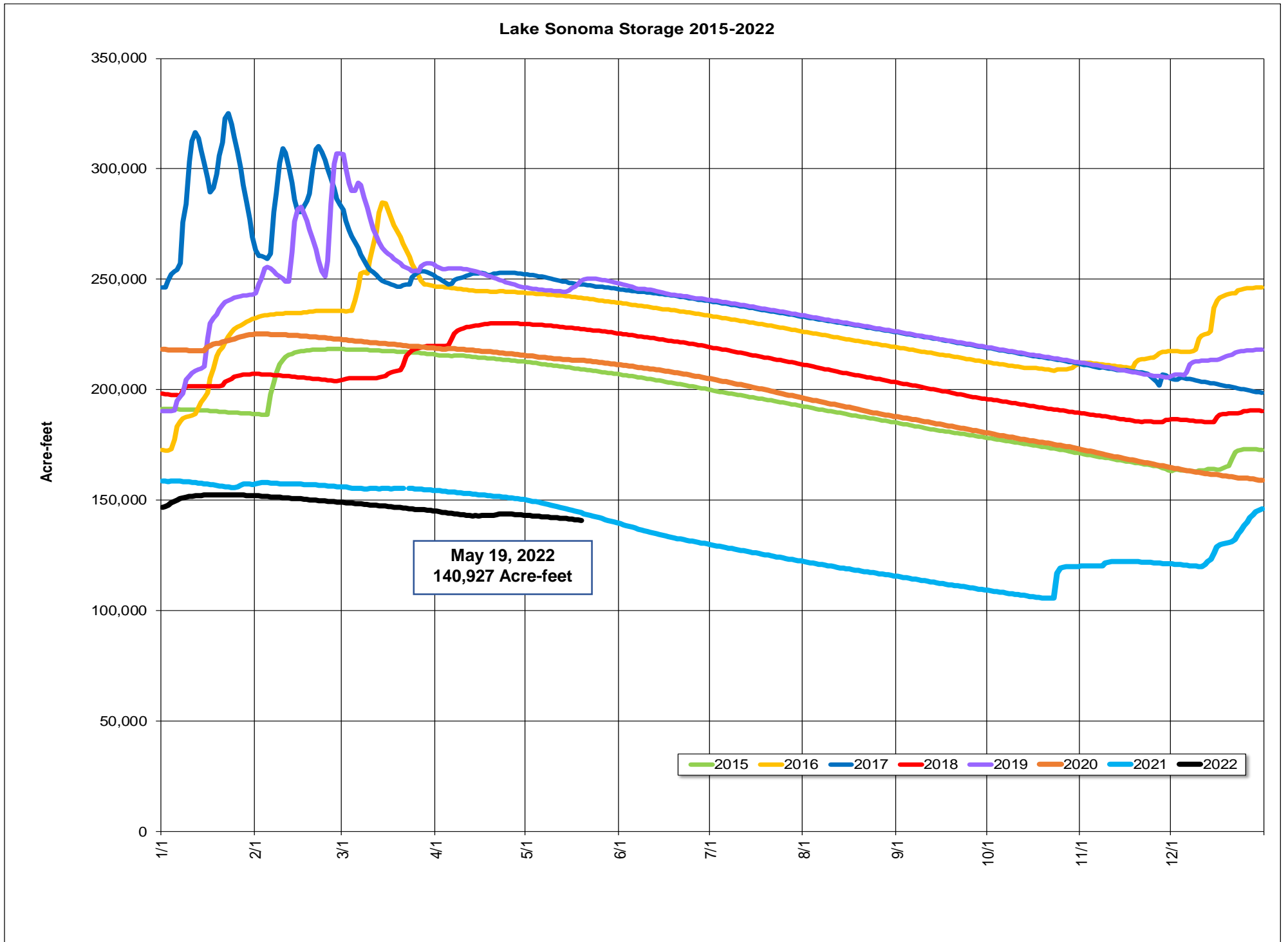


Storage (acre-feet)	May 19, 2022	<b>48,706</b>	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	<b>2,728</b>	<b>91</b>
	Last 7 days	<b>579</b>	<b>83</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>50</b>
		Max	<b>97</b>
		Mean	<b>81</b>
Release (cfs)	Last 7 days	Min	<b>28</b>
		Max	<b>28</b>
		Mean	<b>28</b>

# Lake Sonoma



Nathan Baskett, March 3, 2011



Storage (acre-feet)	May 19, 2022	<b>140,927</b>	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	<b>-2,413</b>	<b>-80</b>
	Last 7 days	<b>-802</b>	<b>-115</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>6</b>
		Max	<b>26</b>
		Mean	<b>15</b>
Release (cfs)	Last 7 days	Min	<b>65</b>
		Max	<b>67</b>
		Mean	<b>66</b>

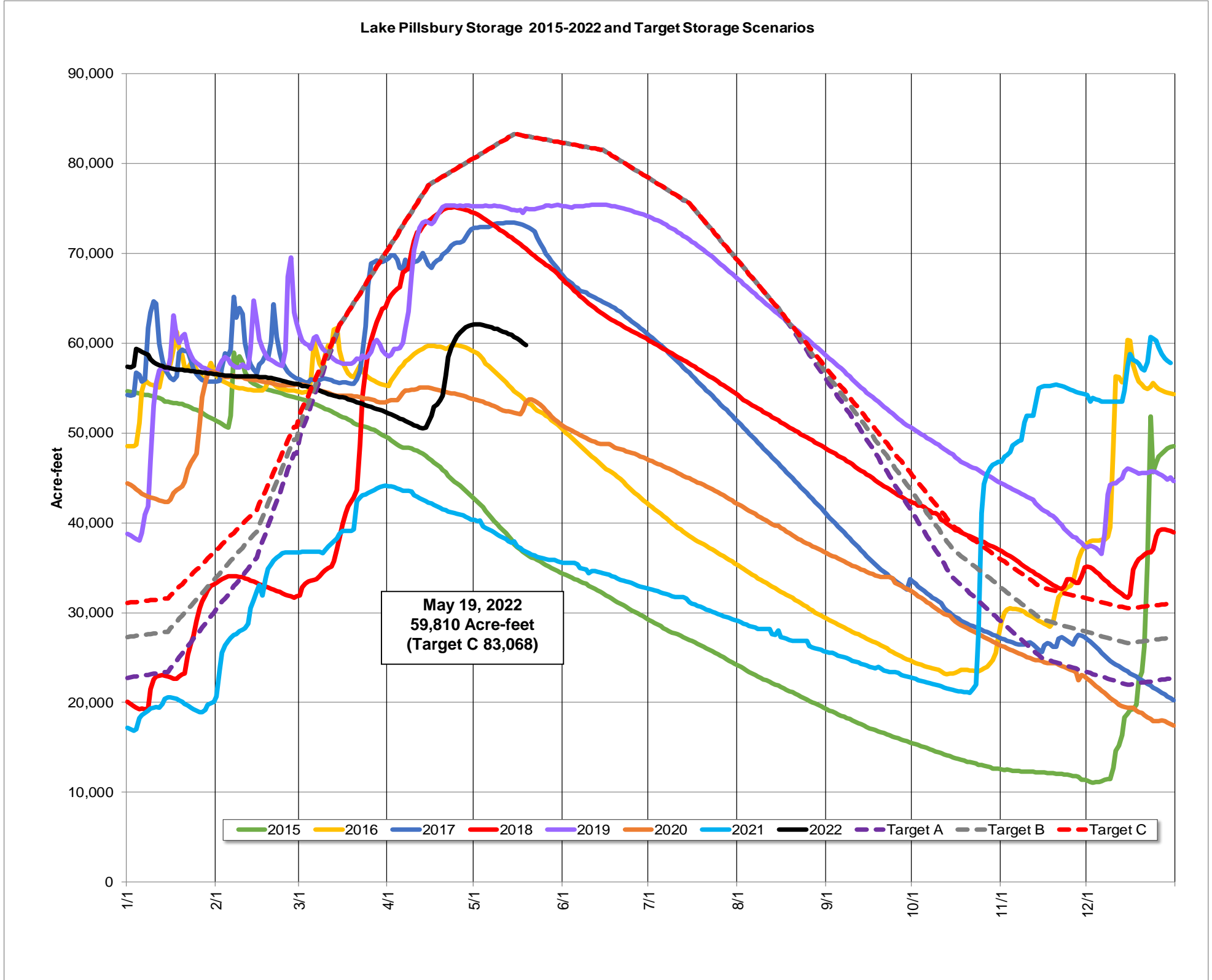
### Potter Valley Project

PVP Diversion (cfs)	May 19, 2022	97
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### Lake Pillsbury

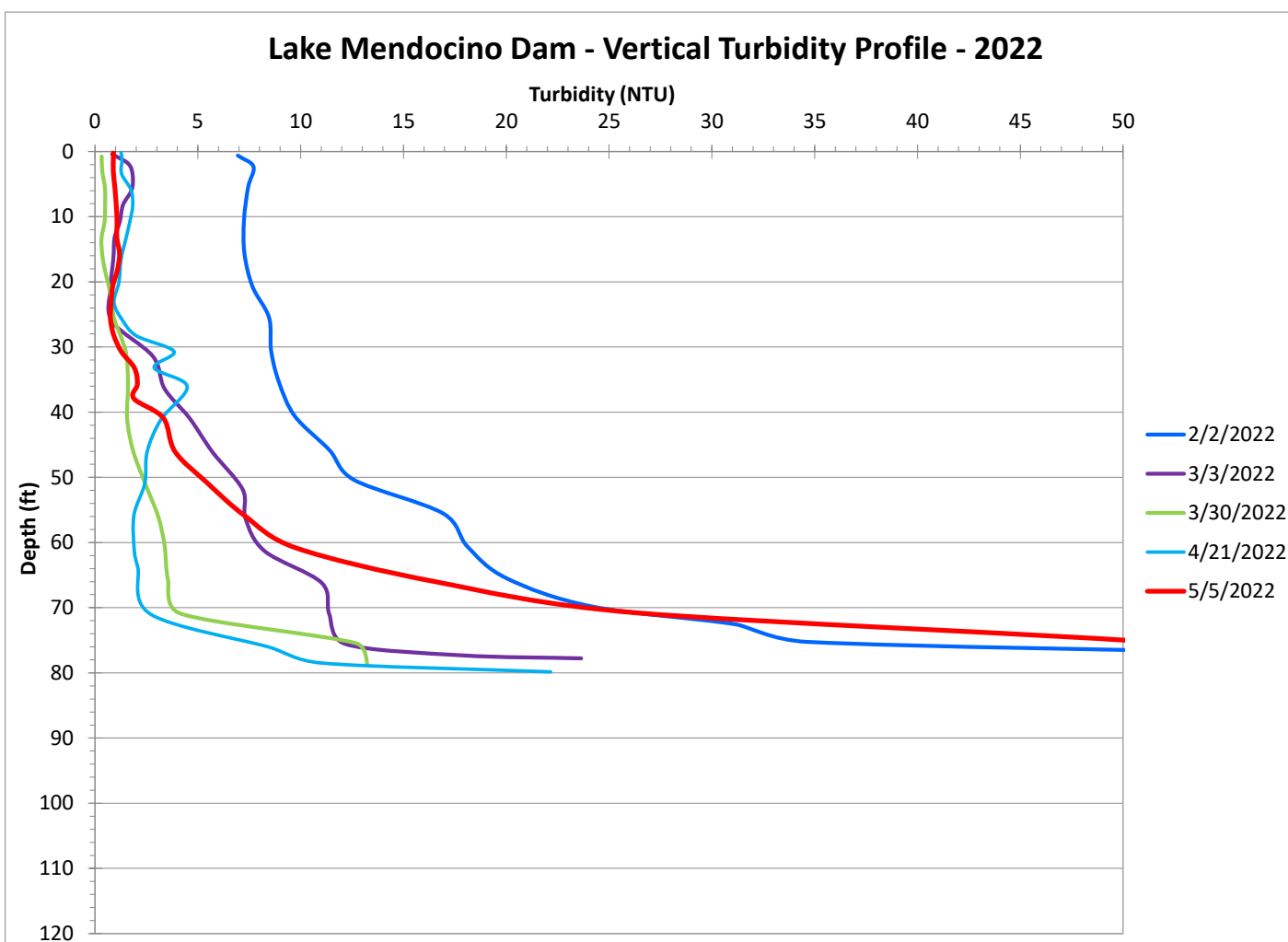
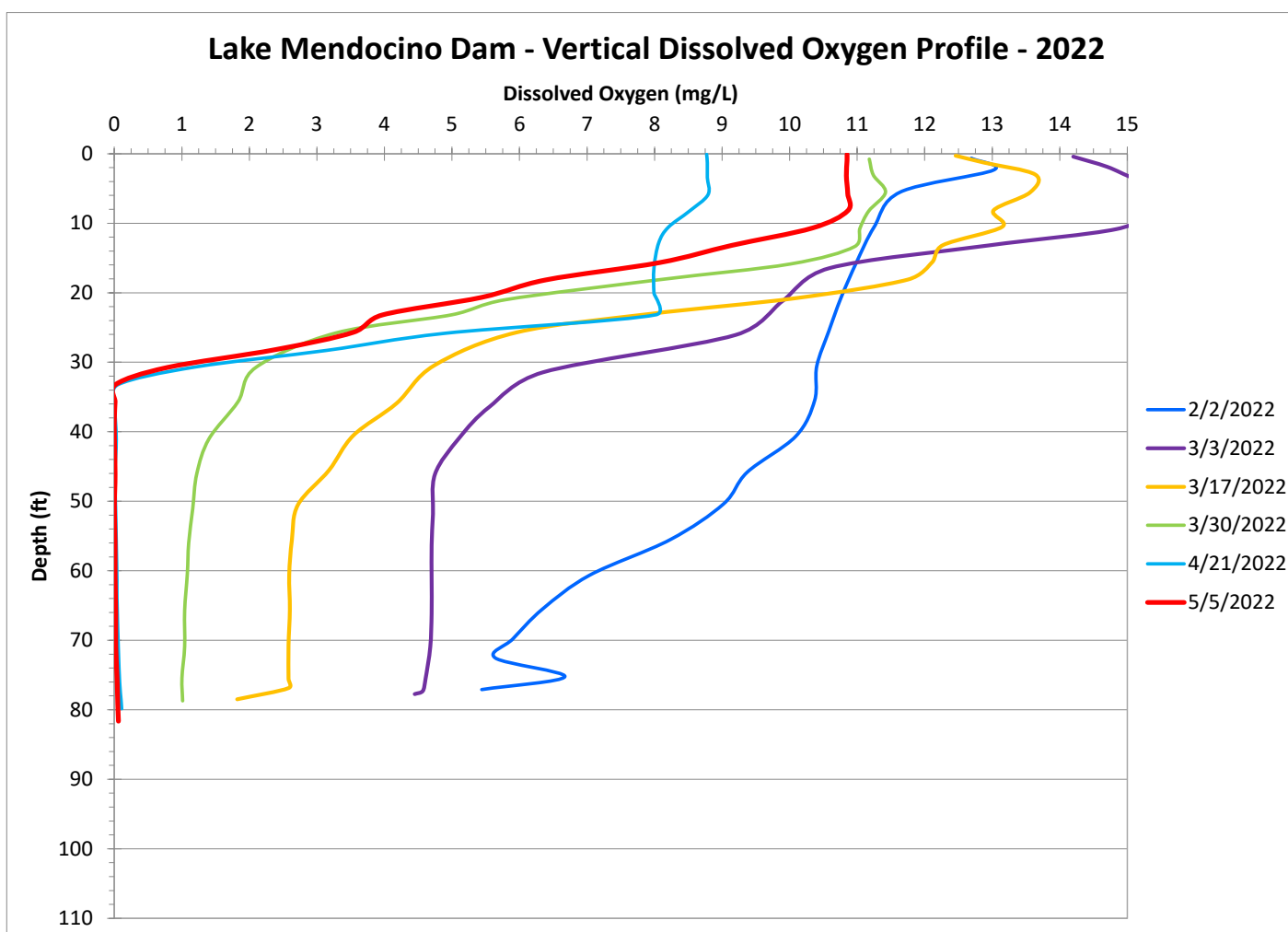
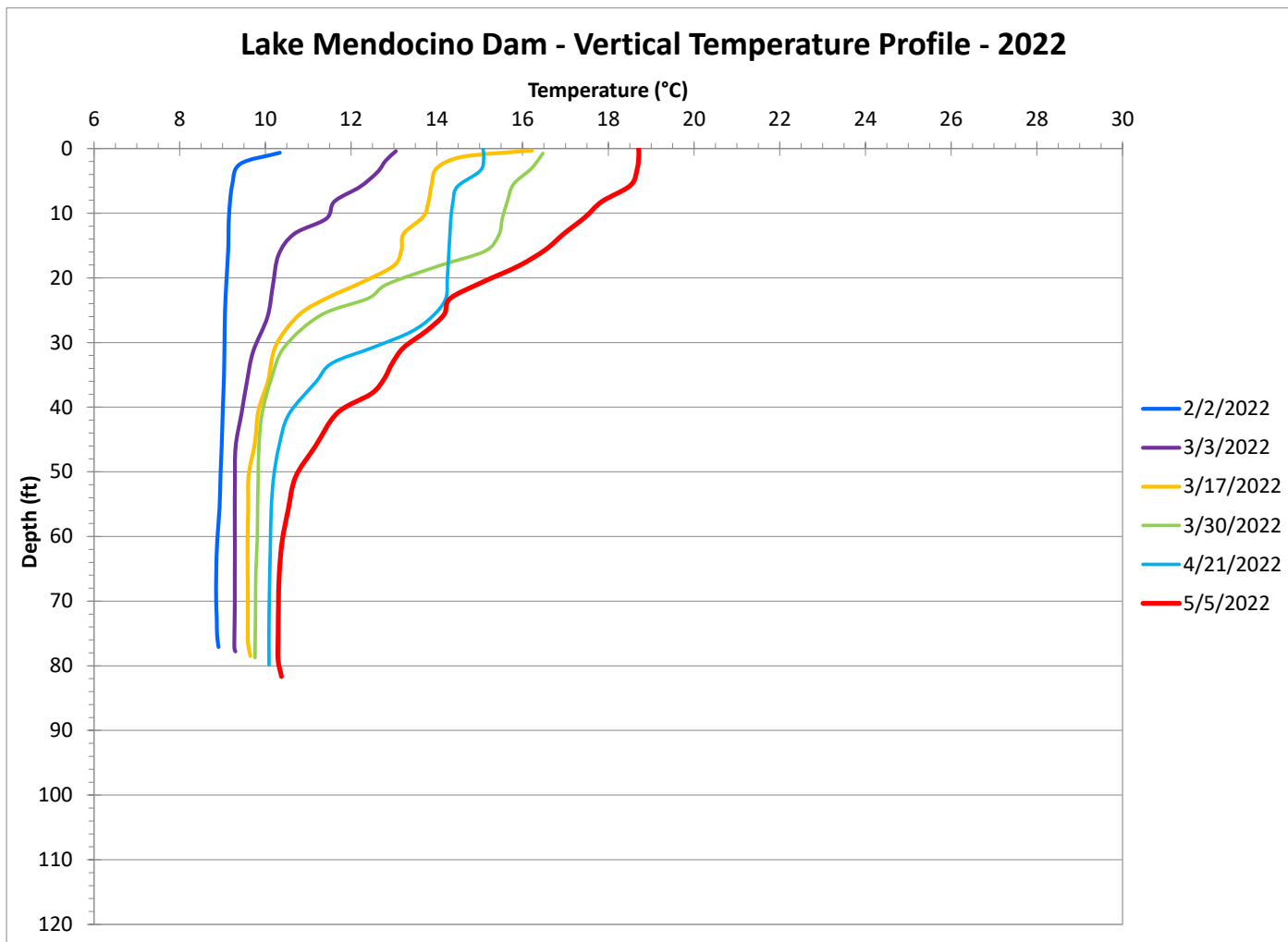
Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2021 - May 19, 2022	224,037	974
	Last 7 days	2,032	290

\*Inflow calculation based on criteria established in D1610



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

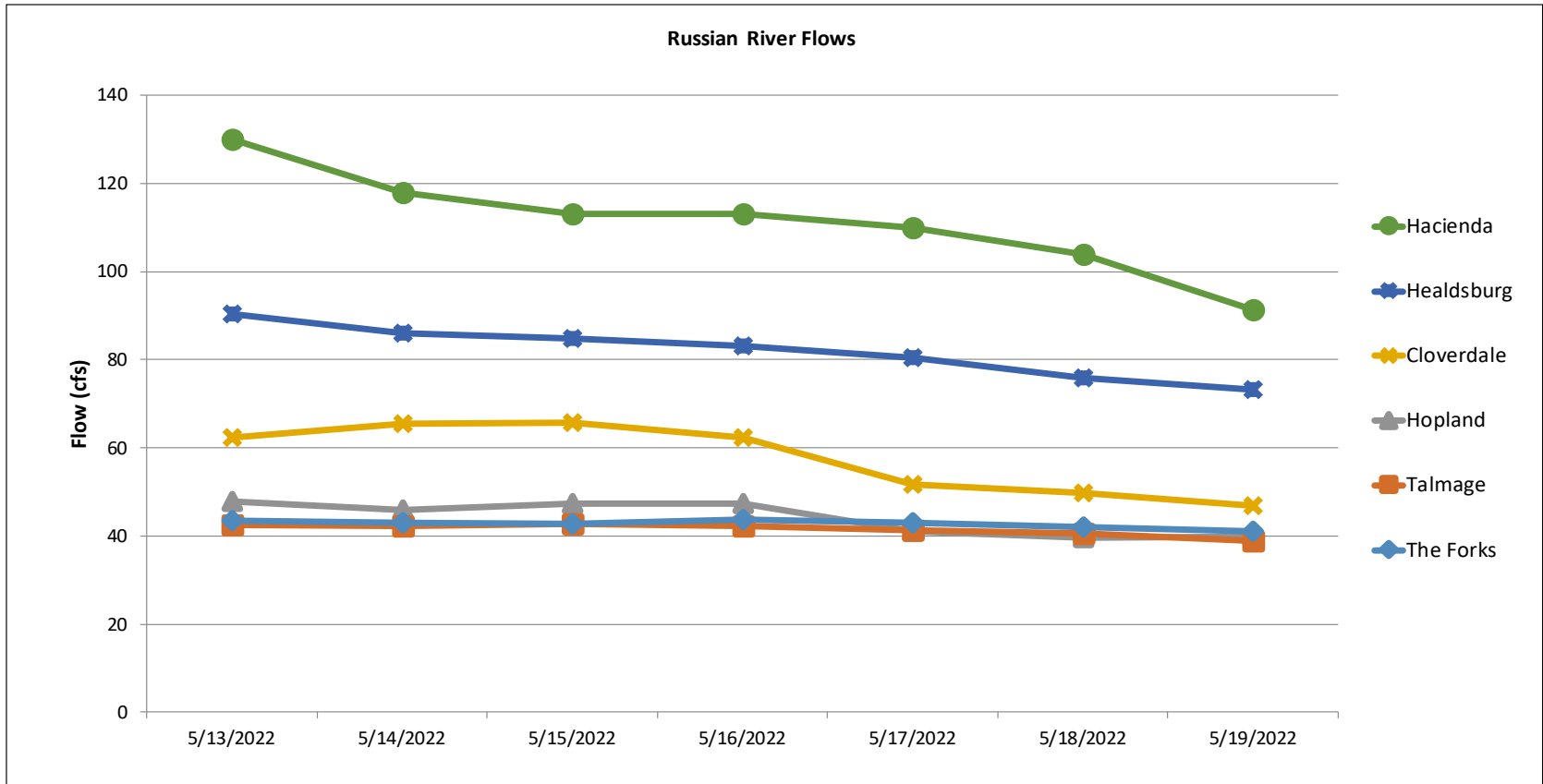
Provisional Data Subject to Revision



### Russian River Flows (May 13, 2022 - May 19, 2022)

Gage	24-hr Average Flow (cfs)						
	May 13, 2022	May 14, 2022	May 15, 2022	May 16, 2022	May 17, 2022	May 18, 2022	May 19, 2022
The Forks*	43	43	43	44	43	42	41
Talmage USGS 11462080	43	42	43	42	41	41	39
Hopland USGS 11462500	48	46	47	47	41	40	40
Cloverdale USGS 11463000	62	65	66	62	52	50	47
Healdsburg USGS 11464000	90	86	85	83	80	76	73
Hacienda USGS 11467000	130	118	113	113	110	104	91

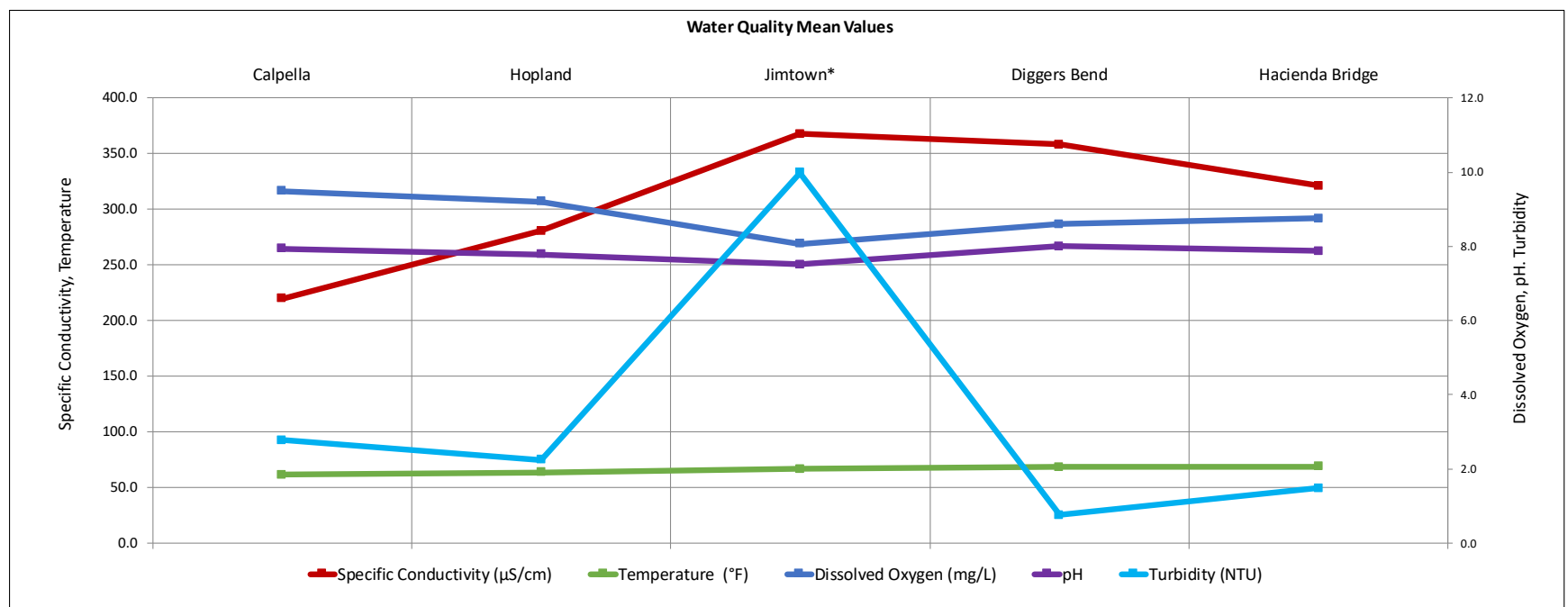
\*West Fork (USGS 11461000) + East Fork (Coyote Valley Dam Release)



### Russian River Water Quality (May 13, 2022 - May 19, 2022)

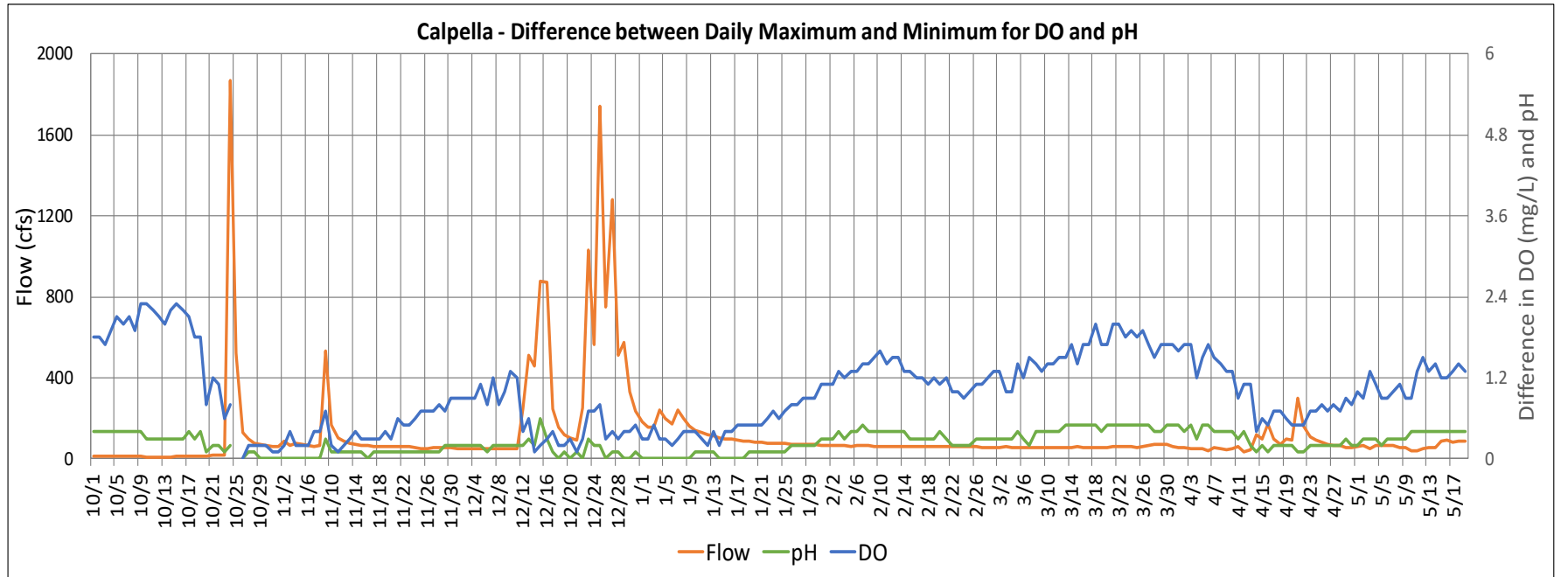
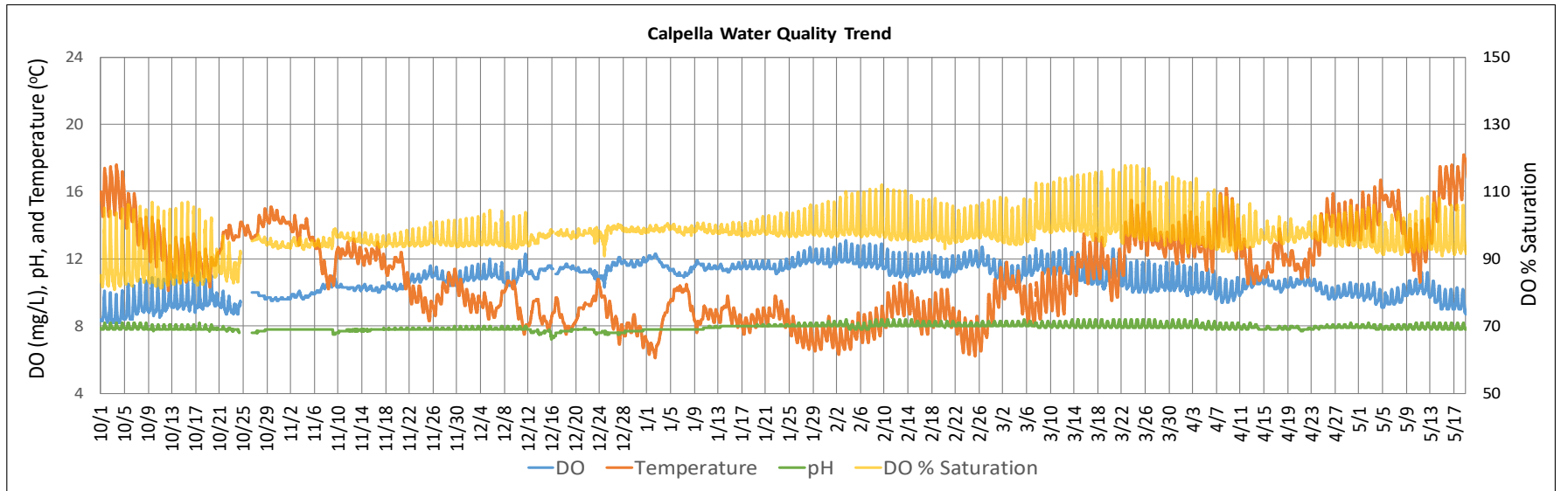
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	55.2	56.8		60.3	60.6		60.3	
	Max	66.2	67.8		70.7	73.6		73.0	
	Mean	61.3	63.6		66.3	68.3		68.6	
Specific Conductivity (µS/cm)	Min	209.0	273.0		361.0	350.0		318.0	
	Max	242.0	283.0		376.0	364.0		332.0	
	Mean	219.9	280.4		367.8	358.2		321.3	
Dissolved Oxygen (mg/L)	Min	8.6	7.3		5.9	6.7		7.2	
	Max	10.7	11.4		11.6	11.2		10.5	
	Mean	9.5	9.2		8.1	8.6		8.8	
Dissolved Oxygen (% Saturation)	Min	90.8	76.6		62.6	72.9		78.1	
	Max	108.1	125.2		126.0	130.5		117.1	
	Mean	96.7	96.6		87.4	95.2		97.1	
pH	Min	7.8	7.5		7.4	7.8		7.6	
	Max	8.2	8.4		7.8	8.4		8.1	
	Mean	7.9	7.8		7.5	8.0		7.9	
Turbidity (NTU)	Min	1.5	1.4		0.6	0.1		0.8	
	Max	4.6	3.9		56.6	2.1		2.9	
	Mean	2.8	2.2		10.0	0.7		1.5	

\*Station operated seasonally



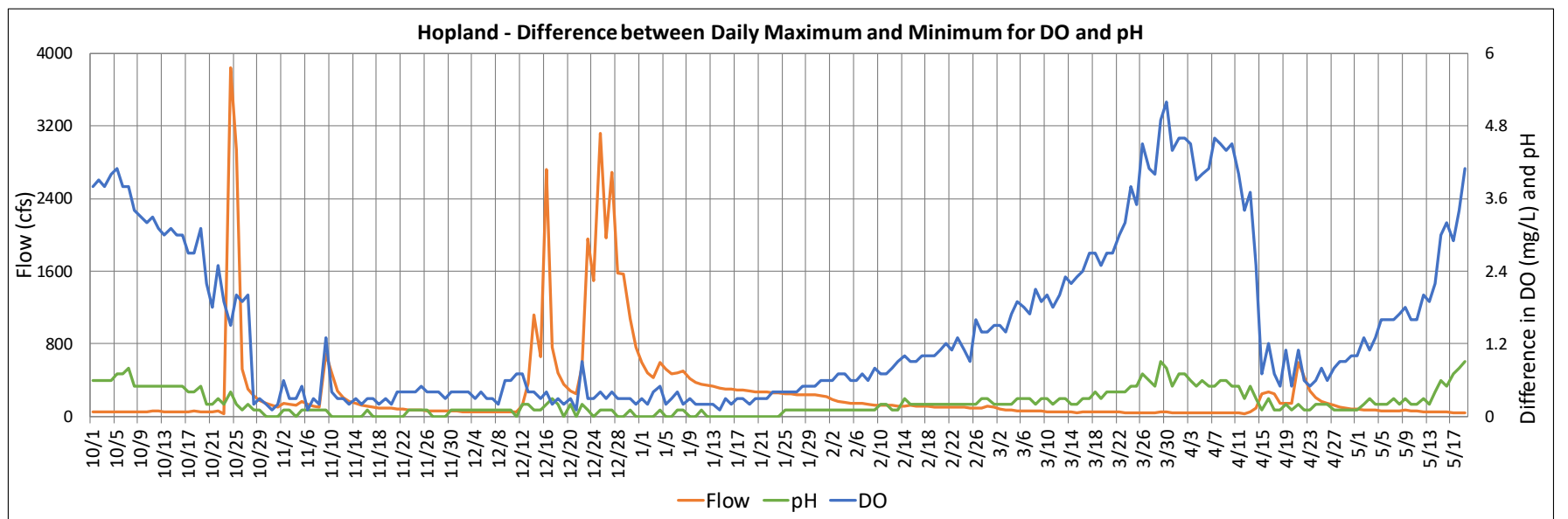
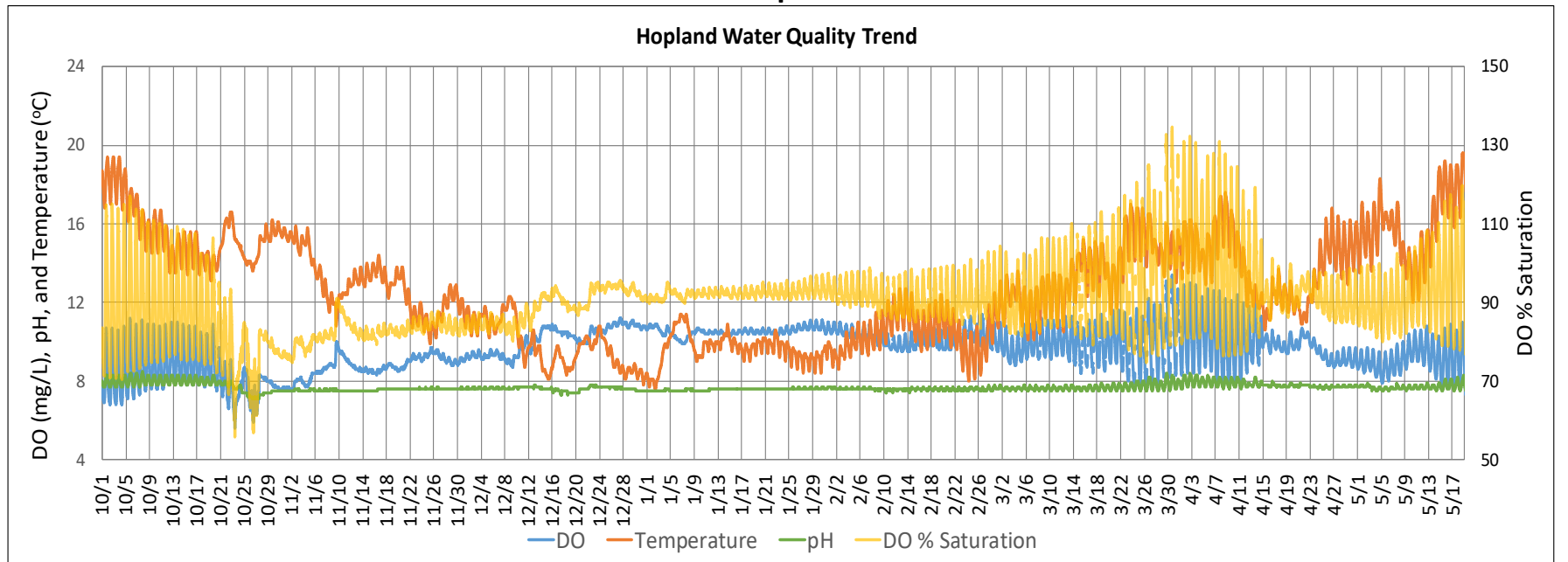
### Russian River Water Quality (October 1, 2021 - May 19, 2022)

#### Calpella (East Fork Russian River)



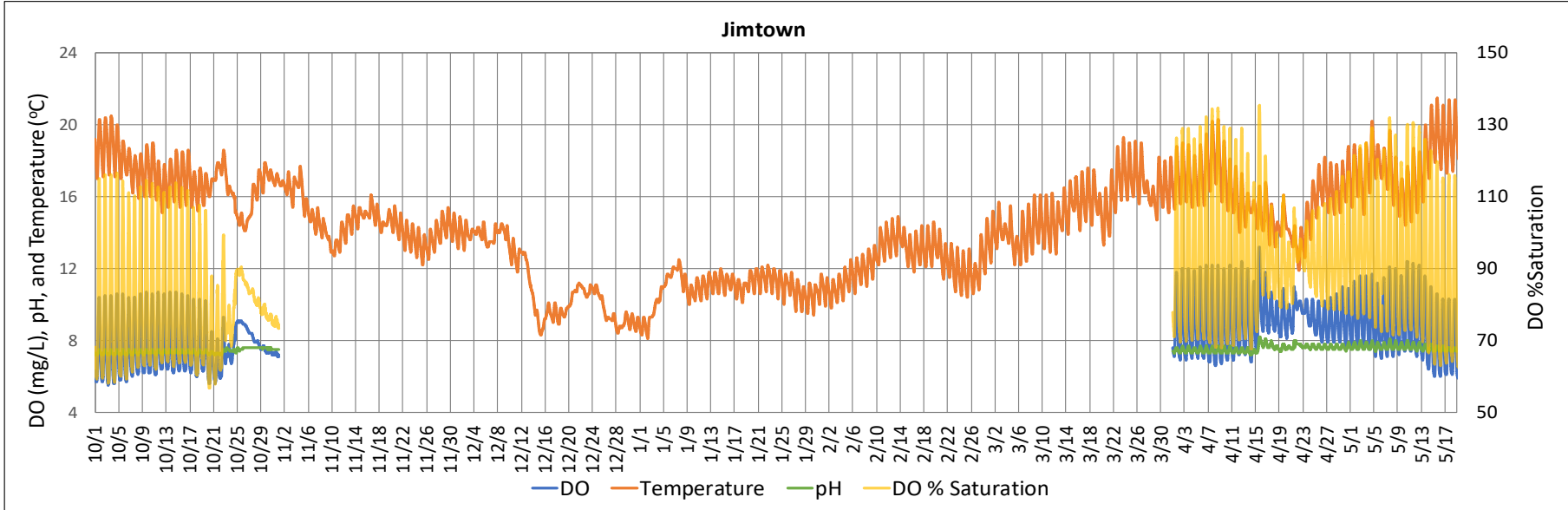
### Russian River Water Quality (October 1, 2021 - May 19, 2022)

#### Hopland

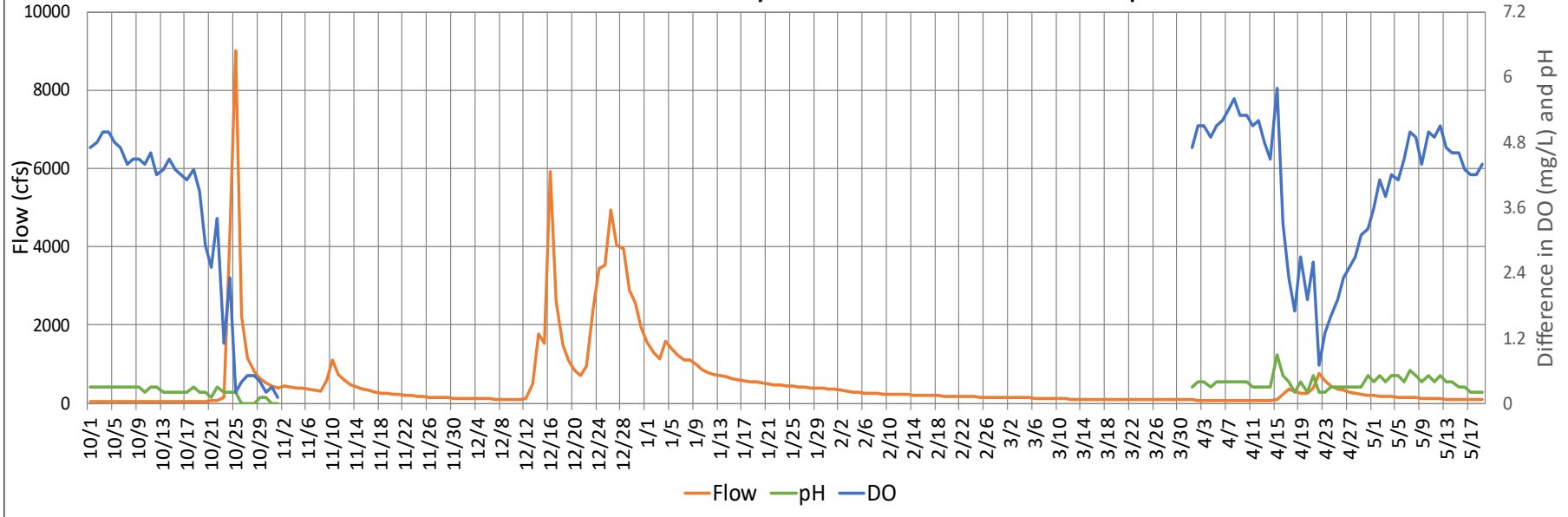


Russian River Water Quality (October 1, 2021 - May 19, 2022)

Jimtown

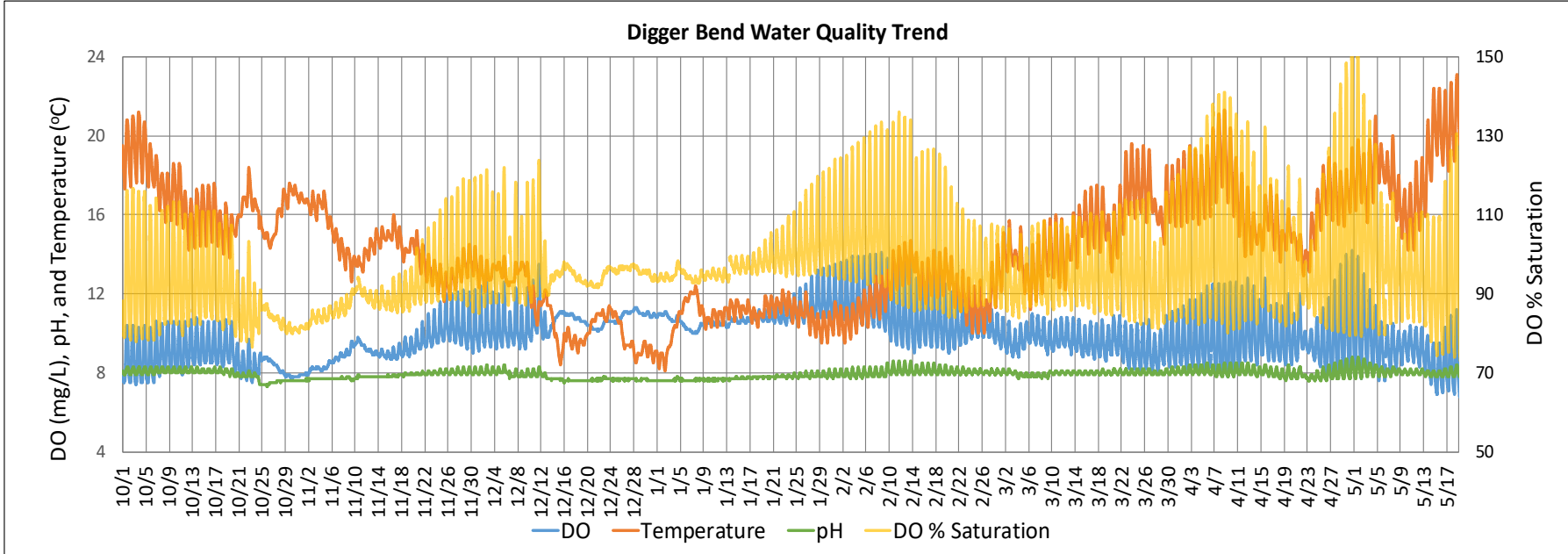


Jimtown - Difference between Daily Maximum and Minimum for DO and pH

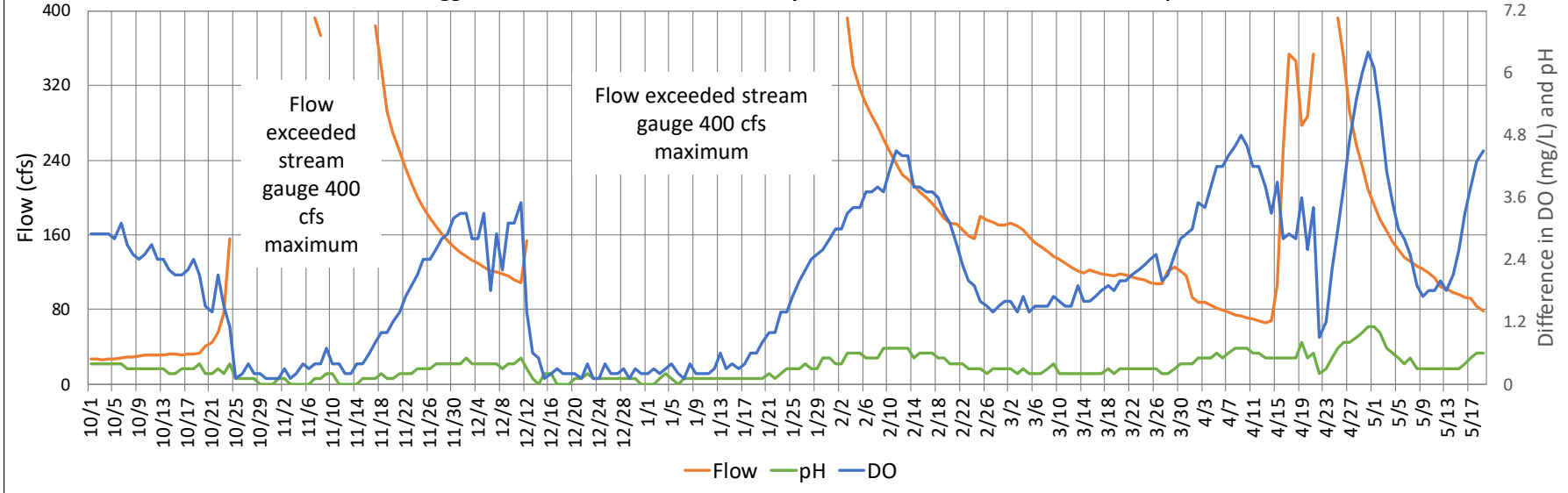


Russian River Water Quality (October 1, 2021 - May 19, 2022)

Digger Bend

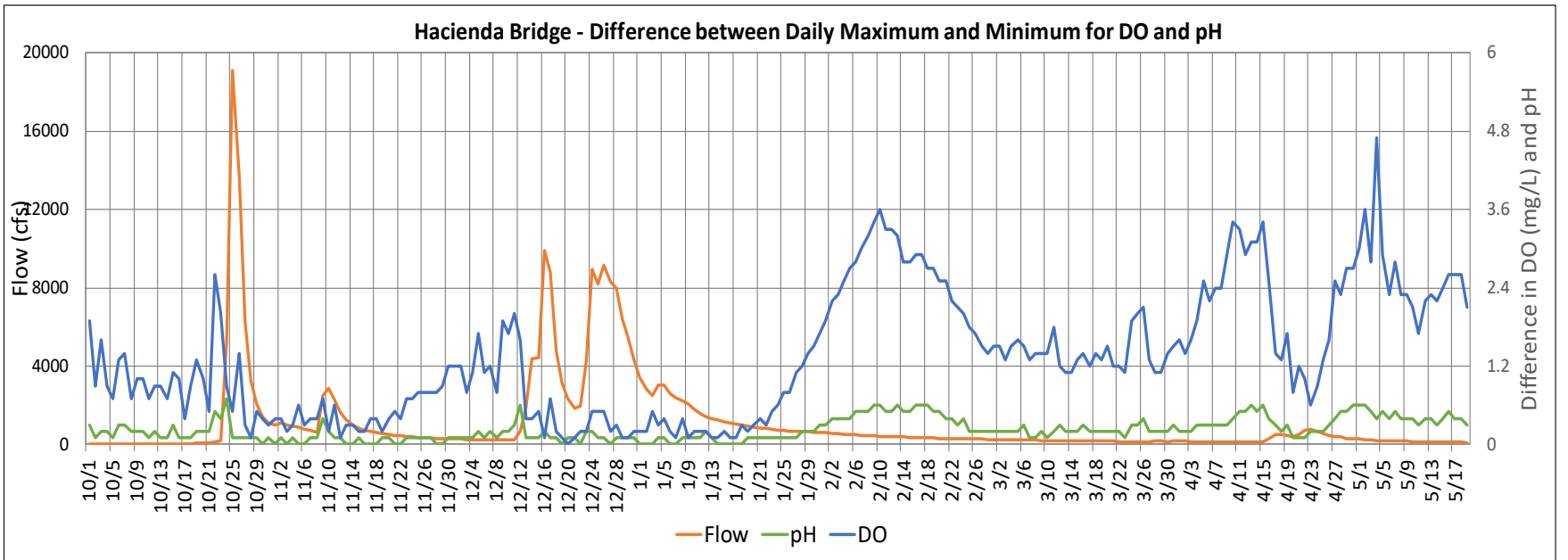
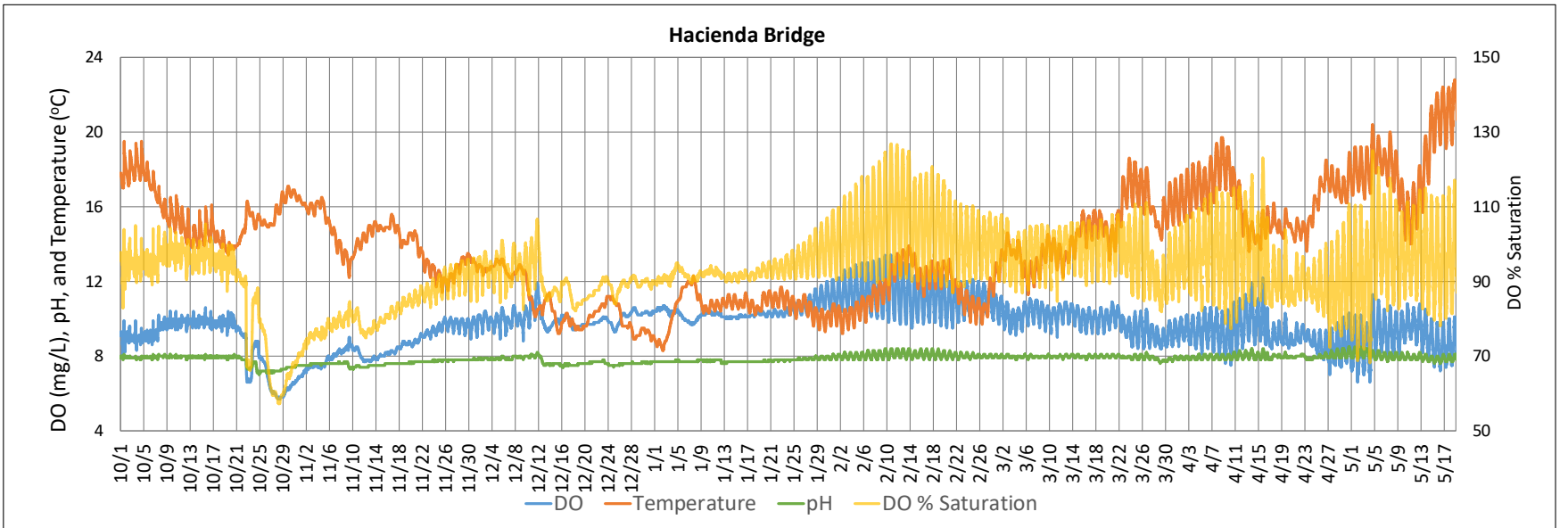


Digger Bend - Difference between Daily Maximum and Minimum for DO and pH



# Russian River Water Quality (October 1, 2021 - May 19, 2022)

## Hacienda Bridge

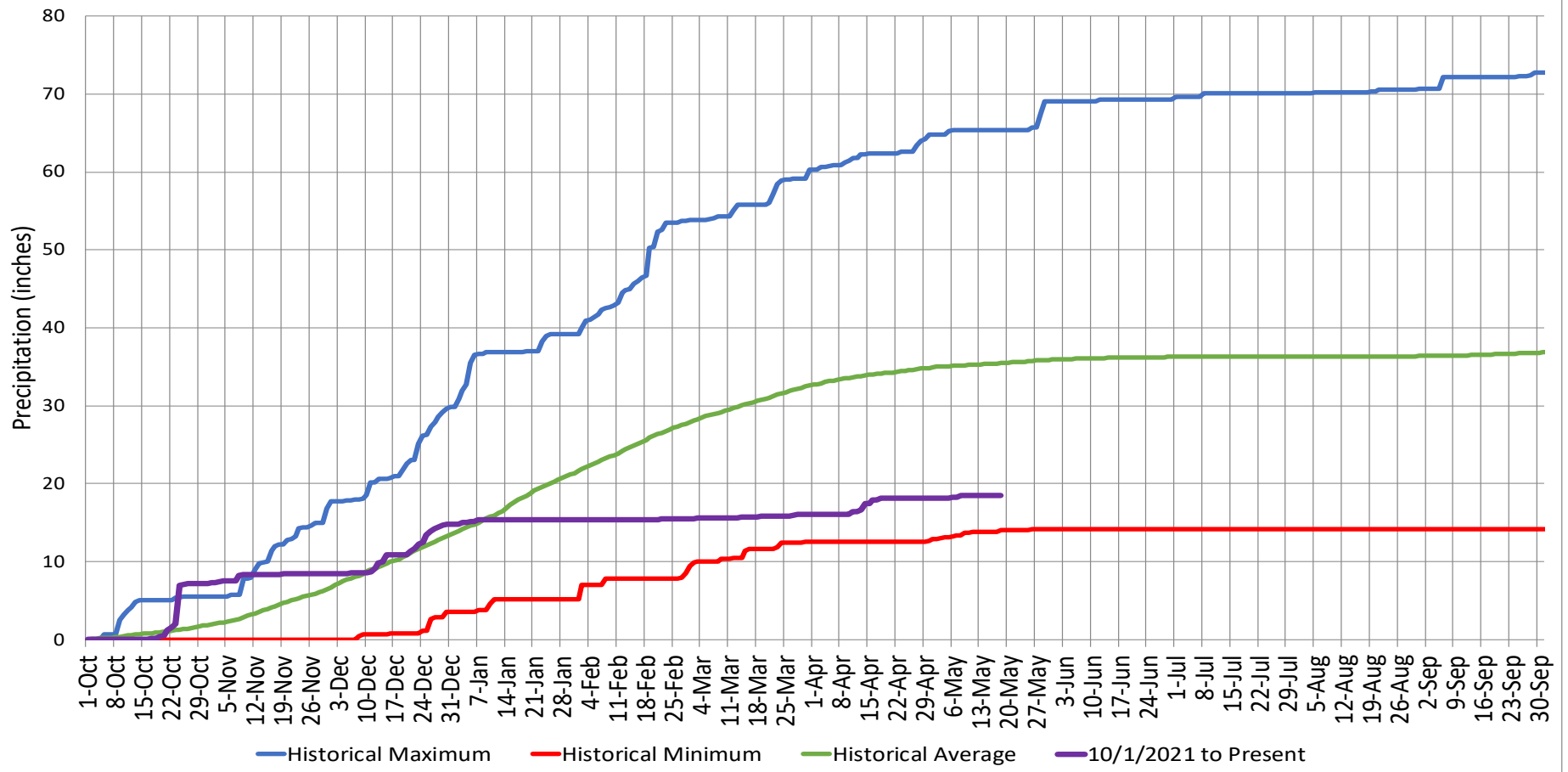




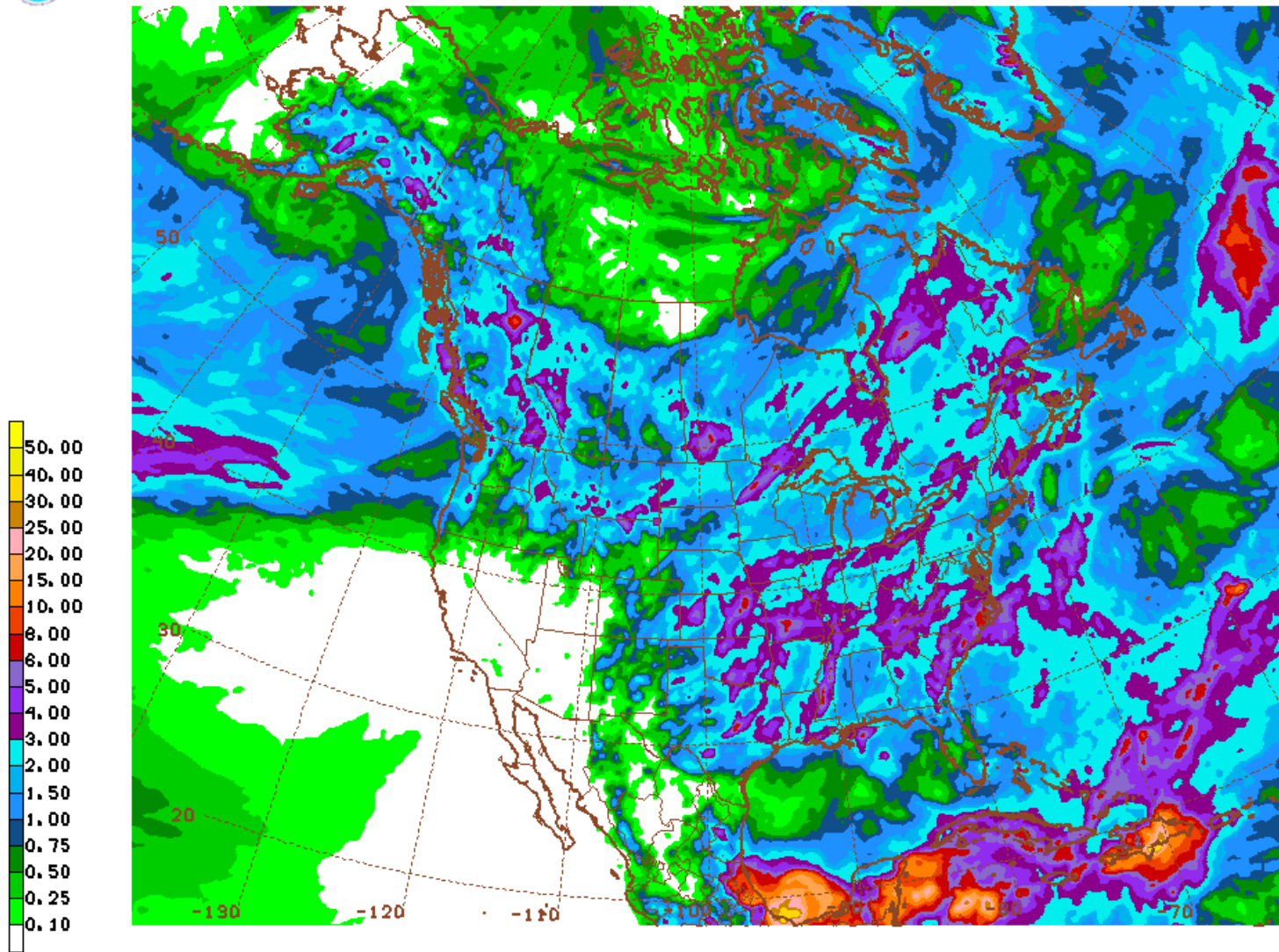
### Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2021 - May 19, 2022	<b>18.53</b>
Last 7 Days*	<b>0.00</b>

Cumulative Precipitation Comparison of Current Year versus Historic Record



GFS 05/23/22 12UTC 384HR FCST VALID WED 06/08/22 12UTC NOAA/NWS/NCEP



GFS WED 220608/1200Y384 384HR ACCUMULATED PRECIP (IN)

Date Range	Forecasted Cumulative (inches)
May 23 - Jun 8, 2022	<b>0.00</b>