



Sonoma Water

**State Water Resources Control Board
Temporary Urgency Change Order (12/11/2021)
Russian River Hydrologic Report
April 1, 2022 - April 7, 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).

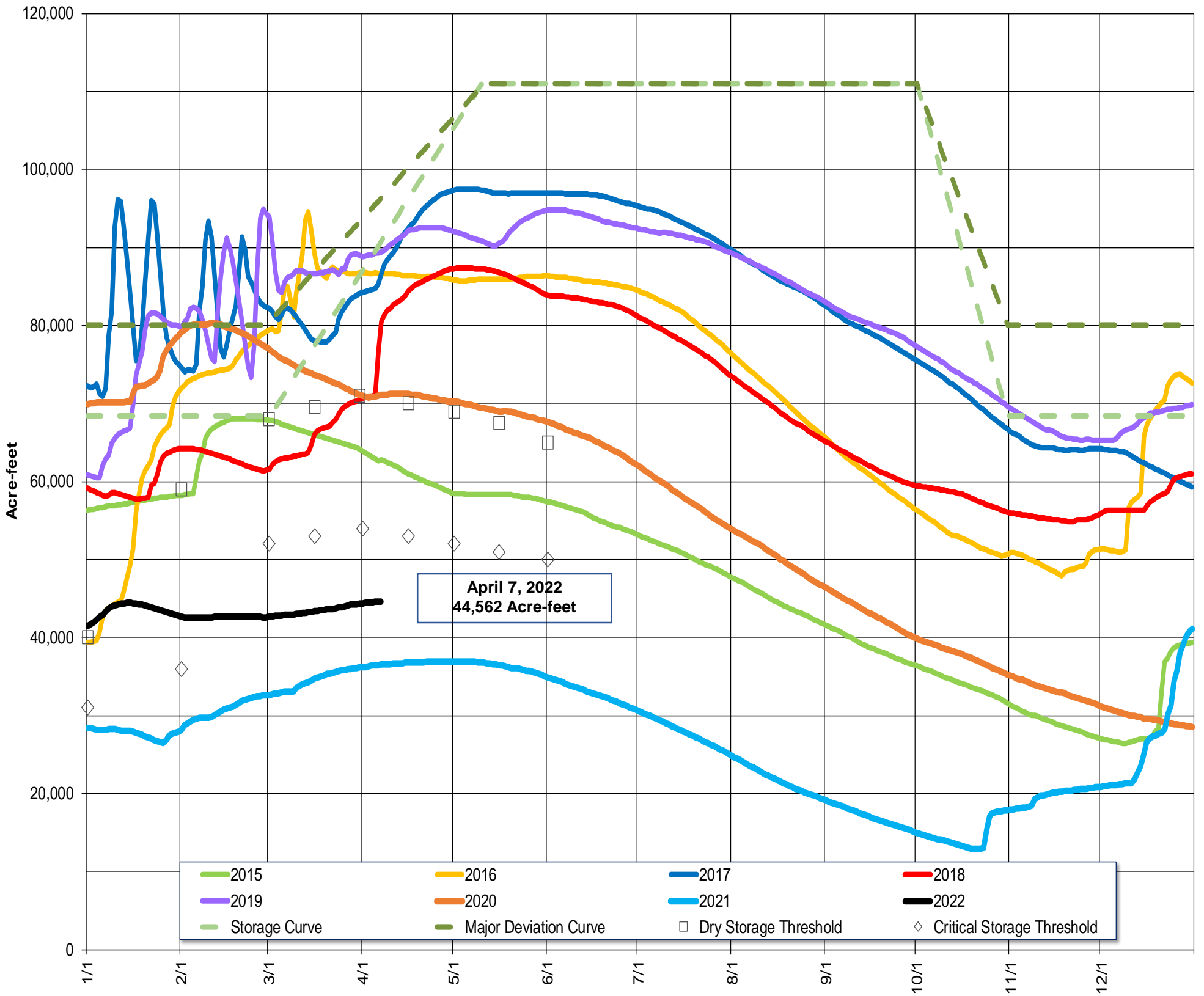
Instream Flow Requirements as of April 7, 2022

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



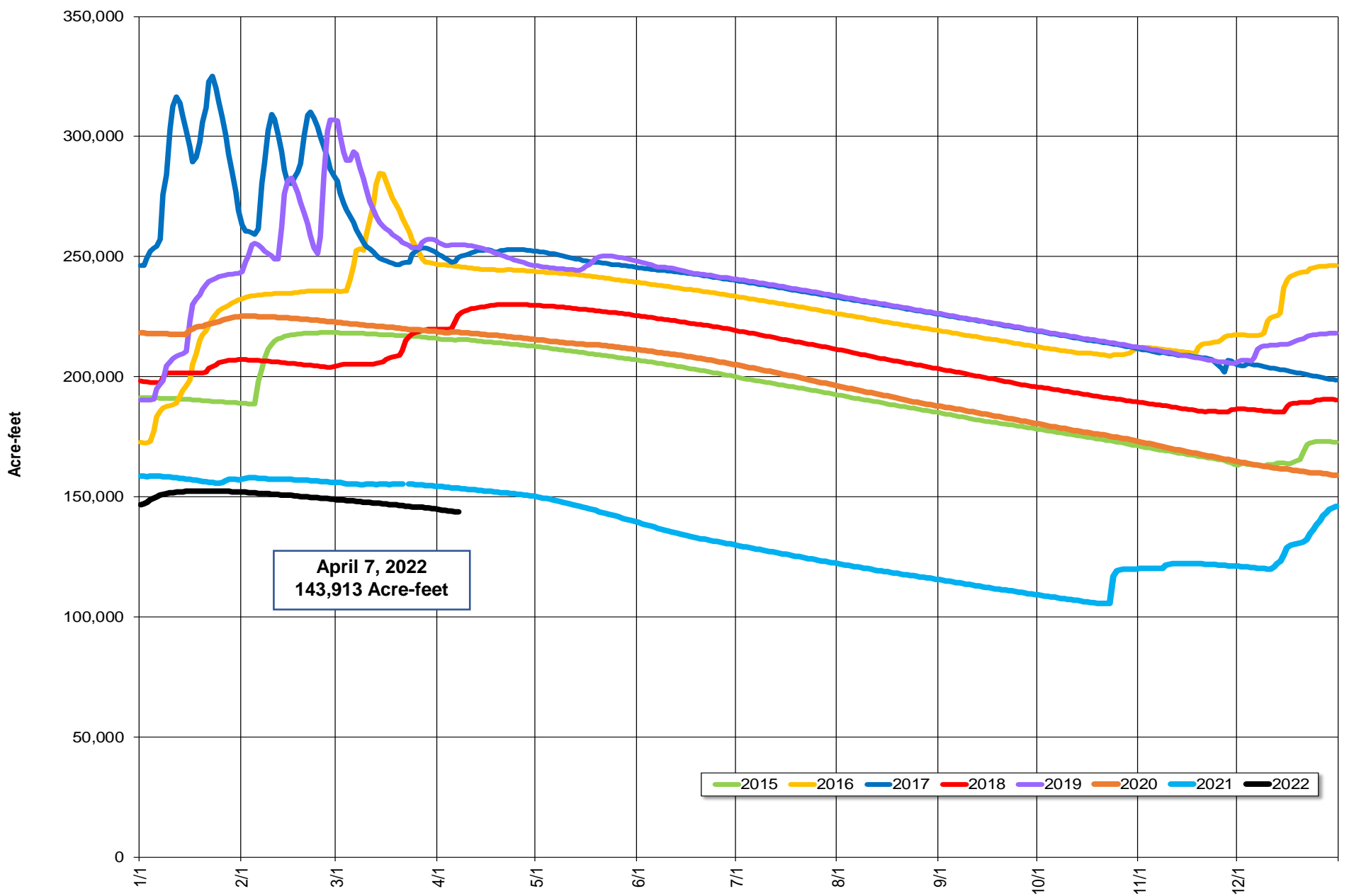
Storage (acre-feet)	April 7, 2022	44,562	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	1,671	56
	Last 7 days	230	33
Daily Inflow (cfs)	Last 7 days	Min	48
		Max	65
		Mean	55
Release (cfs)	Last 7 days	Min	28
		Max	29
		Mean	29

Lake Sonoma



Nathan Baskett, March 3 , 2011

Lake Sonoma Storage 2015-2022



Storage (acre-feet)	April 7, 2022	143,913	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	-4,283	-143
	Last 7 days	-1,018	-145
Daily Inflow (cfs)	Last 7 days	Min	0
		Max	16
		Mean	6
Release (cfs)	Last 7 days	Min	81
		Max	92
		Mean	83

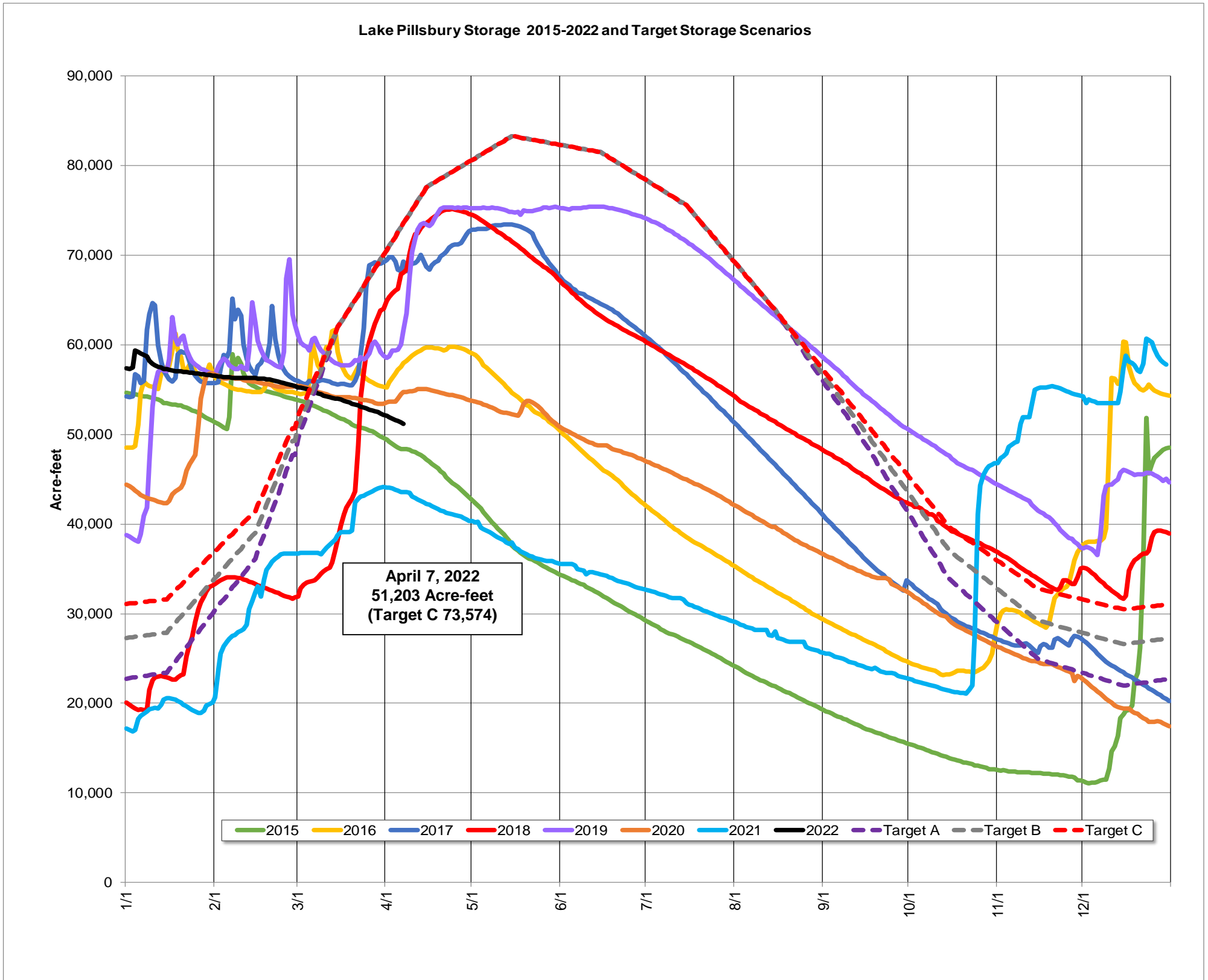
Potter Valley Project

PVP Diversion (cfs)	April 7, 2022	58
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Lake Pillsbury

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2021 - April 7, 2022	193,381	1029
	Last 7 days	1,376	197

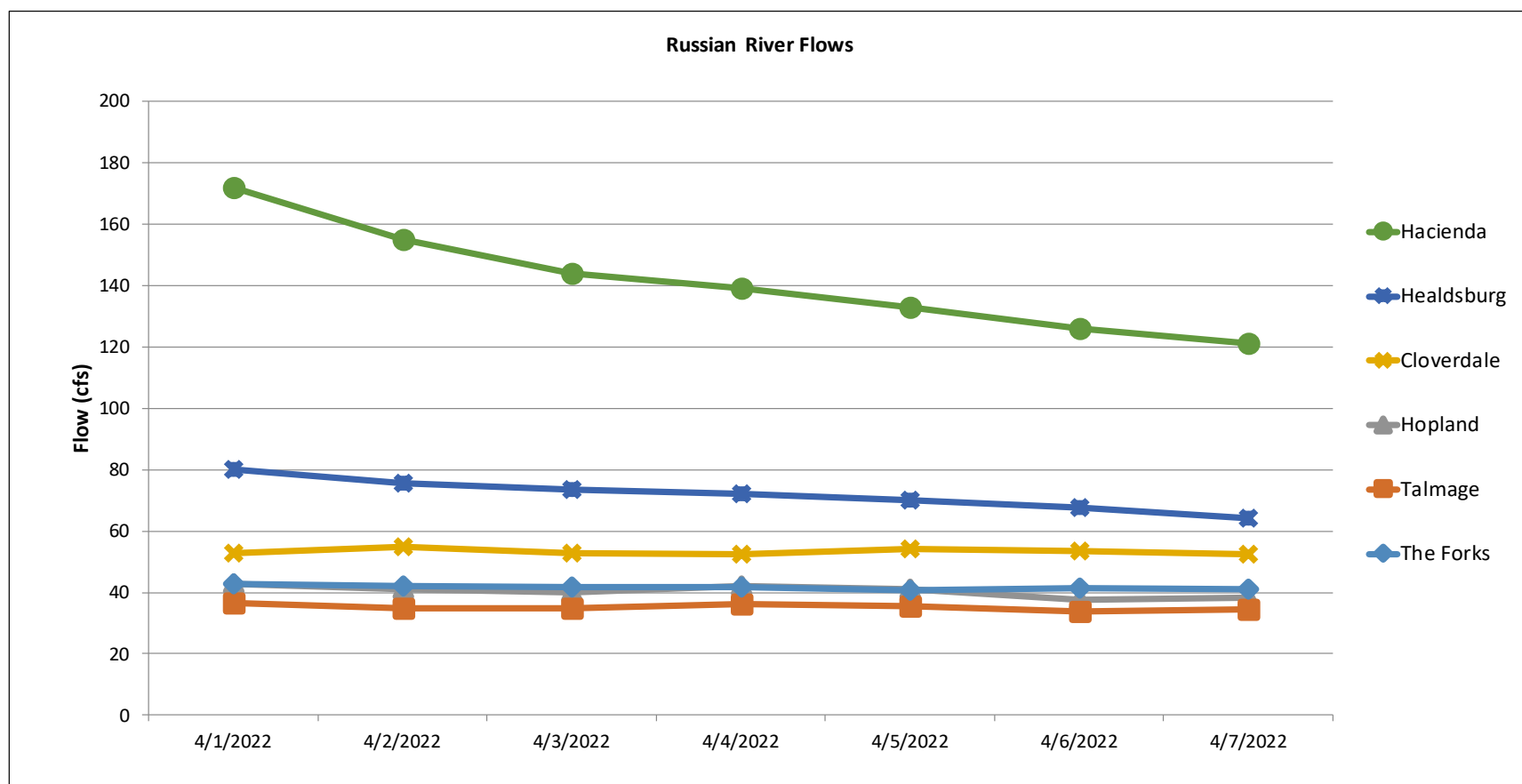
*Inflow calculation based on criteria established in D1610



Russian River Flows (April 1, 2022 - April 7, 2022)

Gage	24-hr Average Flow (cfs)						
	Apr 1, 2022	Apr 2, 2022	Apr 3, 2022	Apr 4, 2022	Apr 5, 2022	Apr 6, 2022	Apr 7, 2022
The Forks*	43	42	42	42	41	41	41
Talmage USGS 11462080	37	35	35	36	36	34	35
Hopland USGS 11462500	43	41	40	42	41	38	38
Cloverdale USGS 11463000	53	55	53	52	54	53	53
Healdsburg USGS 11464000	80	76	73	72	70	68	64
Hacienda USGS 11467000	172	155	144	139	133	126	121

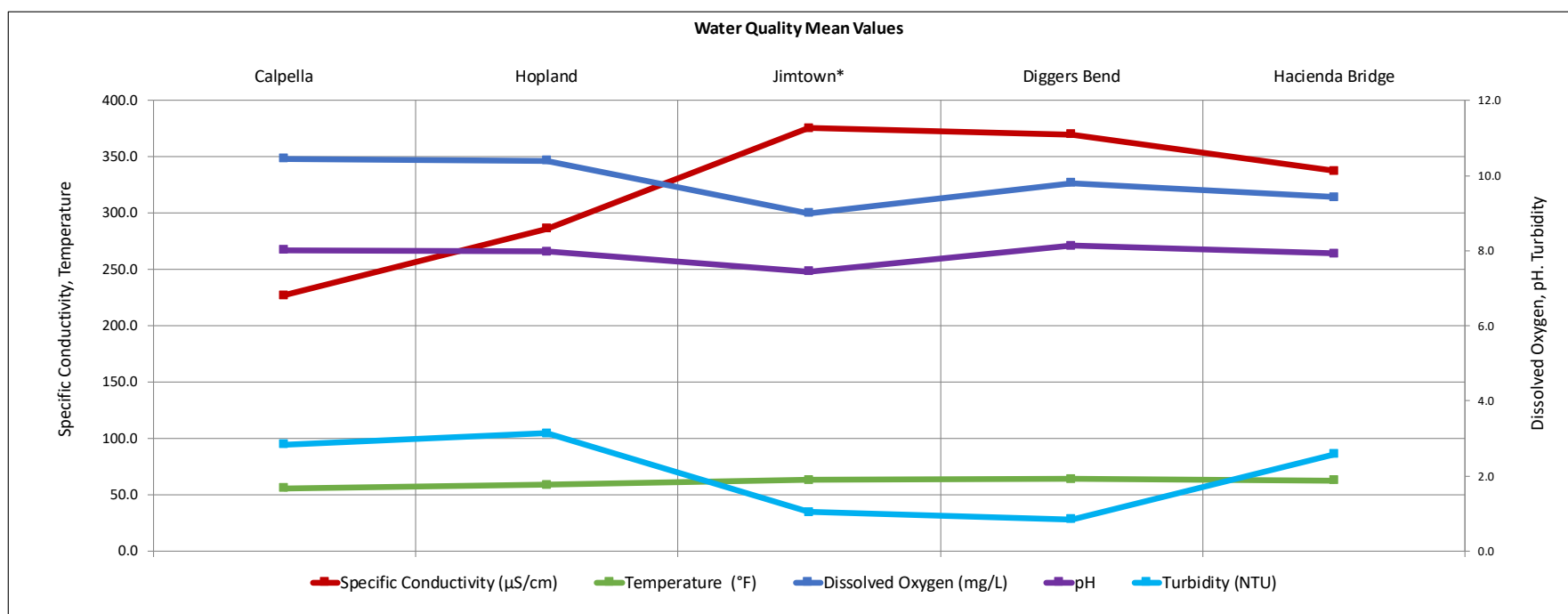
*West Fork (USGS 11461000) + East Fork (Coyote Valley Dam Release)



Russian River Water Quality (April 1, 2022 - April 7, 2022)

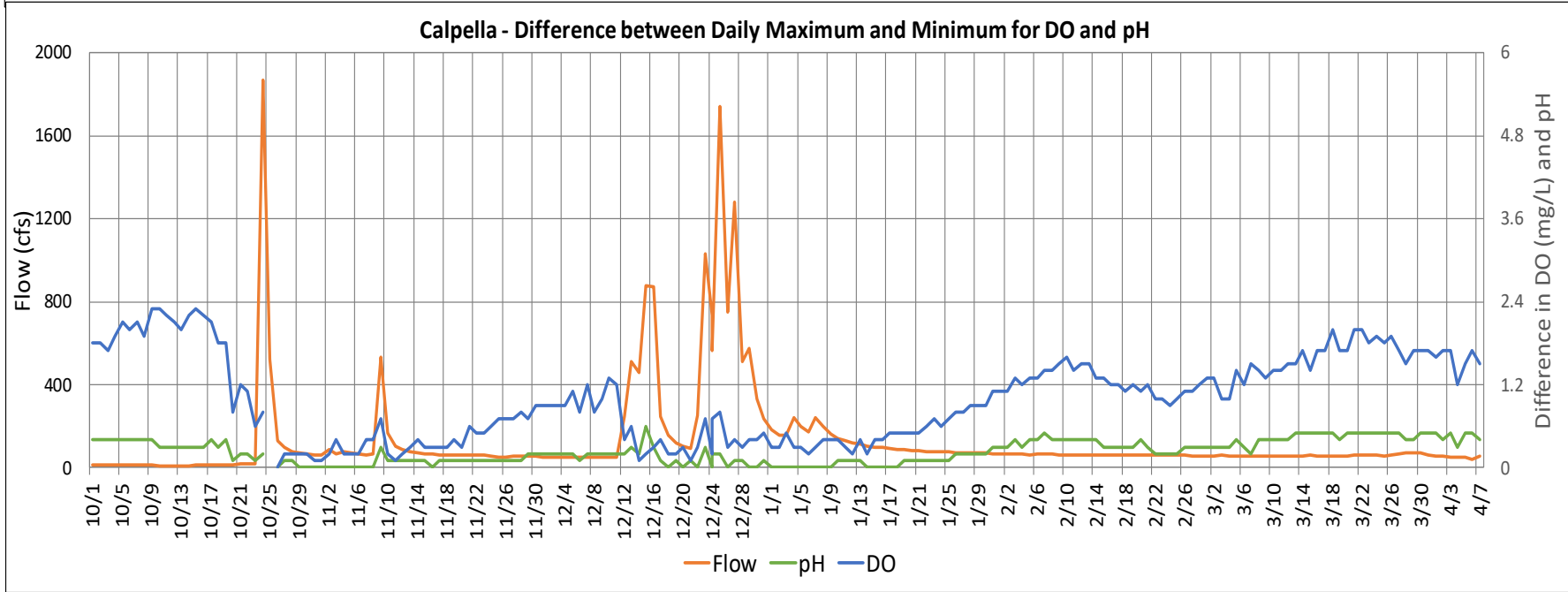
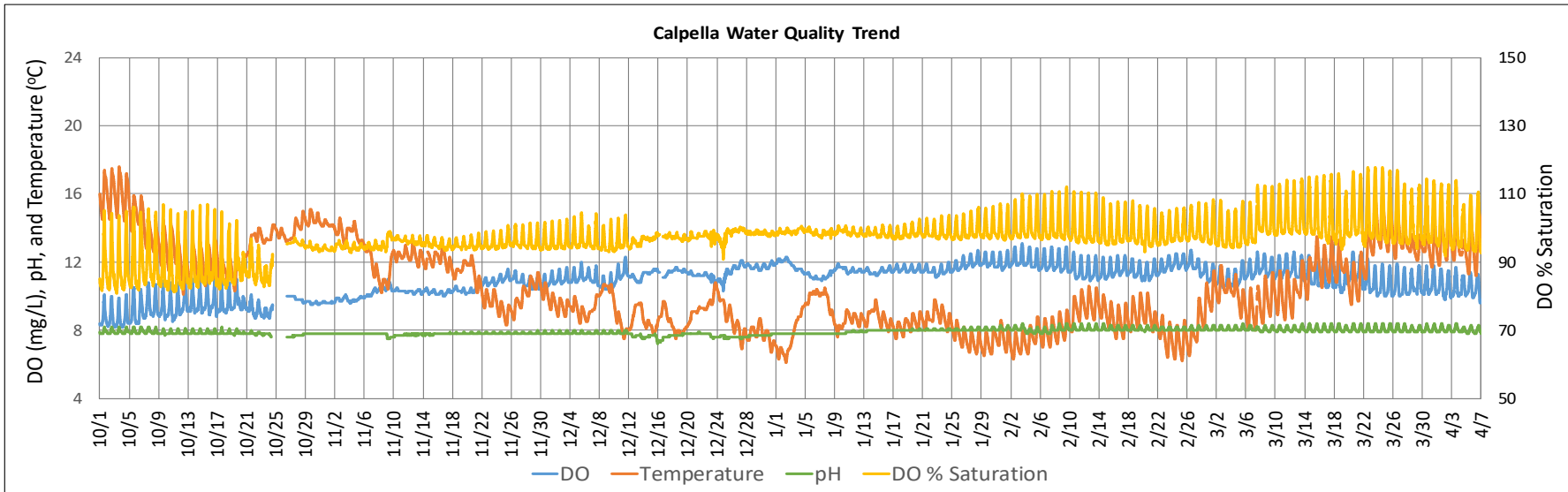
Parameter	Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
	USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	52.2	55.2		59.5	59.7		59.0
	Max	60.6	63.3		68.4	70.0		66.9
	Mean	55.7	58.9		63.0	63.8		62.6
Specific Conductivity (µS/cm)	Min	221.0	282.0		373.0	366.0		306.0
	Max	236.0	291.0		377.0	376.0		347.0
	Mean	227.0	286.3		375.5	369.9		337.5
Dissolved Oxygen (mg/L)	Min	9.4	8.0		6.8	8.1		8.1
	Max	11.7	13.0		12.2	12.5		10.7
	Mean	10.5	10.4		9.0	9.8		9.4
Dissolved Oxygen (% Saturation)	Min	91.7	78.3		69.3	82.2		82.1
	Max	114.0	132.3		134.5	140.4		116.3
	Mean	99.6	103.2		93.9	103.2		97.7
pH	Min	7.8	7.6		7.3	7.8		7.8
	Max	8.4	8.4		7.7	8.5		8.1
	Mean	8.0	8.0		7.4	8.1		7.9
Turbidity (NTU)	Min	1.3	1.0		0.6	0.2		1.5
	Max	6.4	29.2		1.6	2.0		3.5
	Mean	2.8	3.1		1.0	0.8		2.6

*Station operated seasonally



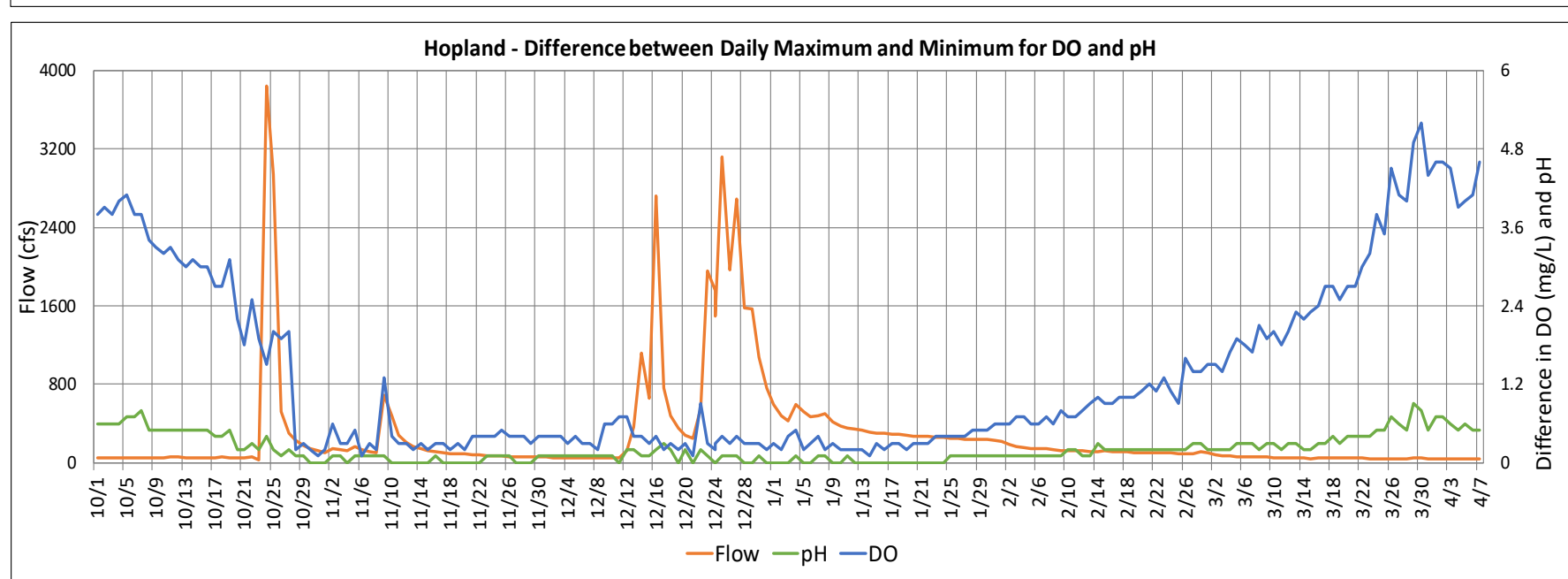
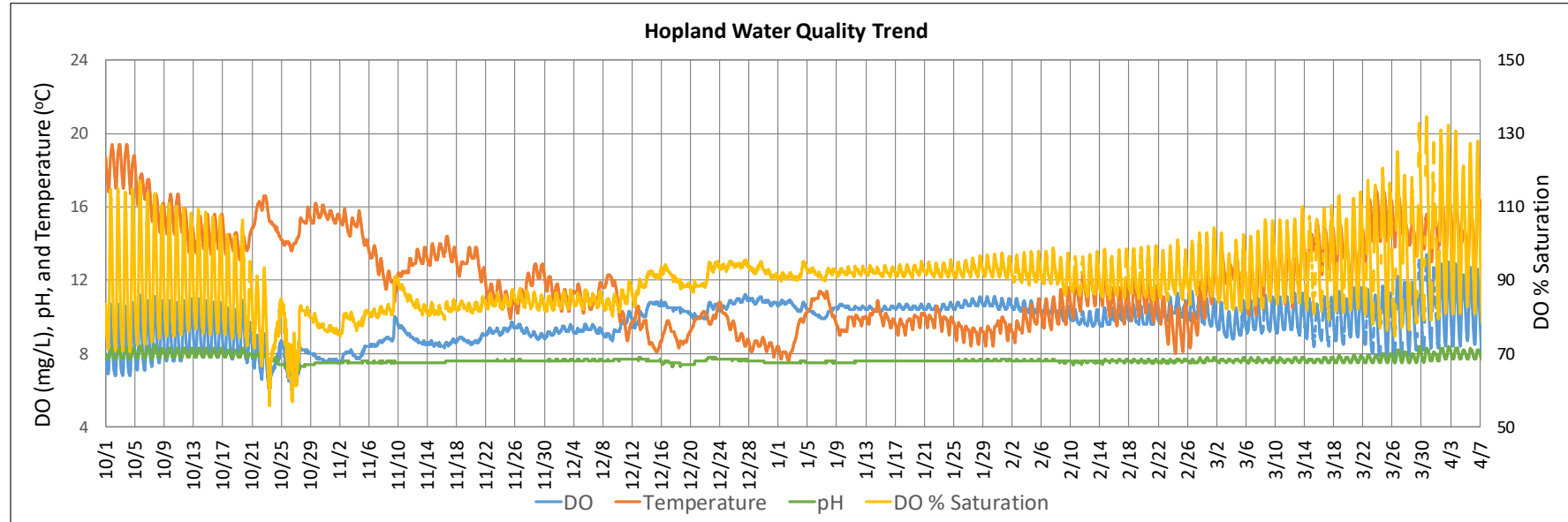
Russian River Water Quality (October 1, 2021 - April 7, 2022)

Calpella (East Fork Russian River)



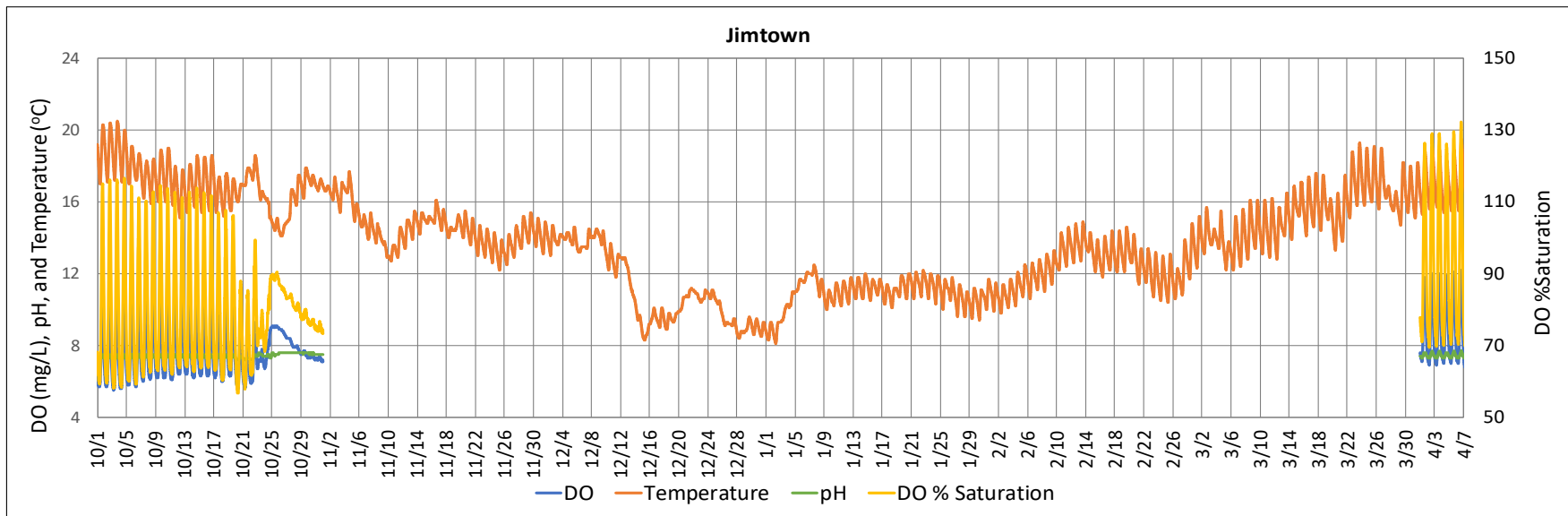
Russian River Water Quality (October 1, 2021 - April 7, 2022)

Hopland

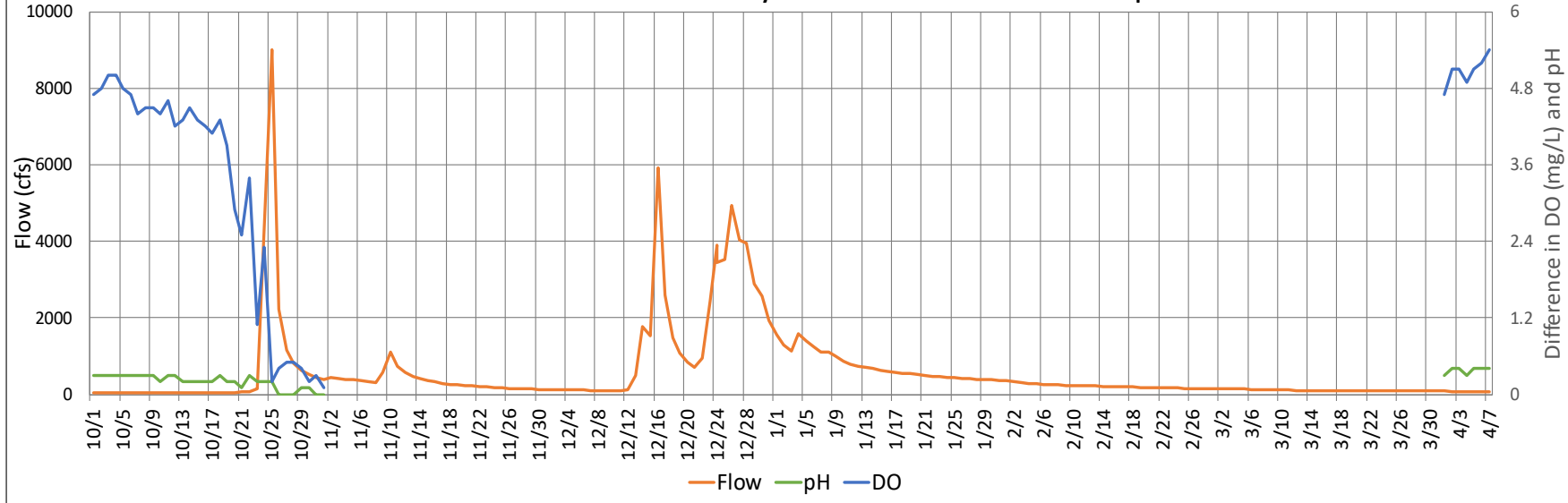


Russian River Water Quality (October 1, 2021 - April 7, 2022)

Jimtown



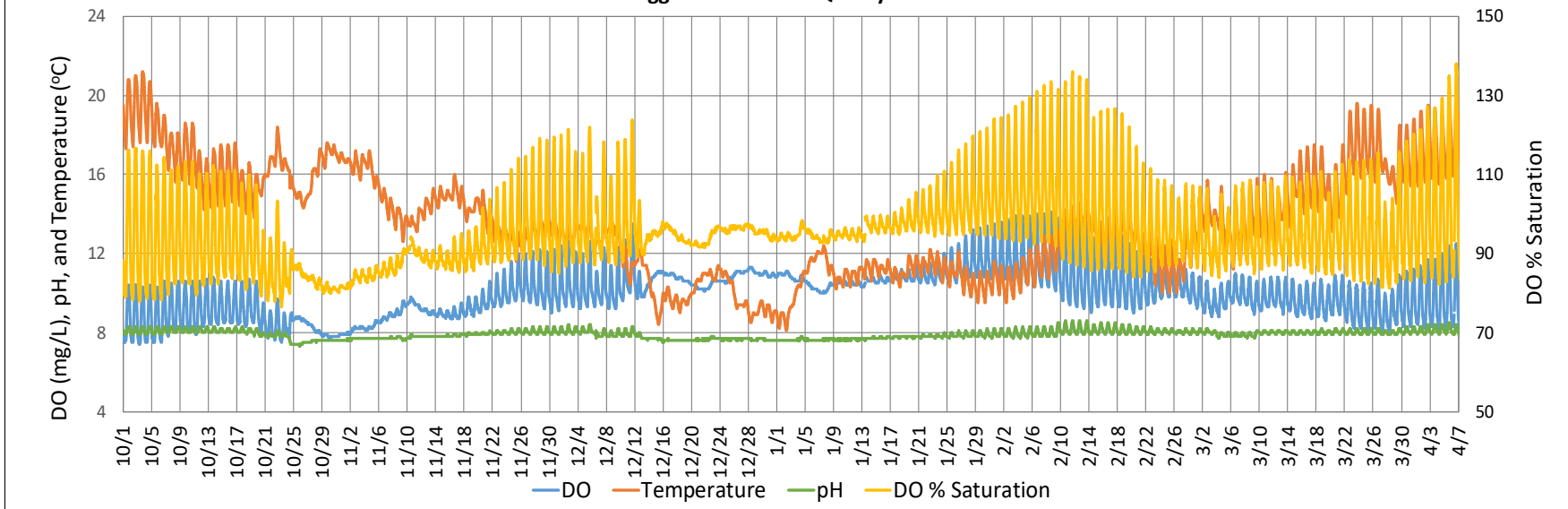
Jimtown - Difference between Daily Maximum and Minimum for DO and pH



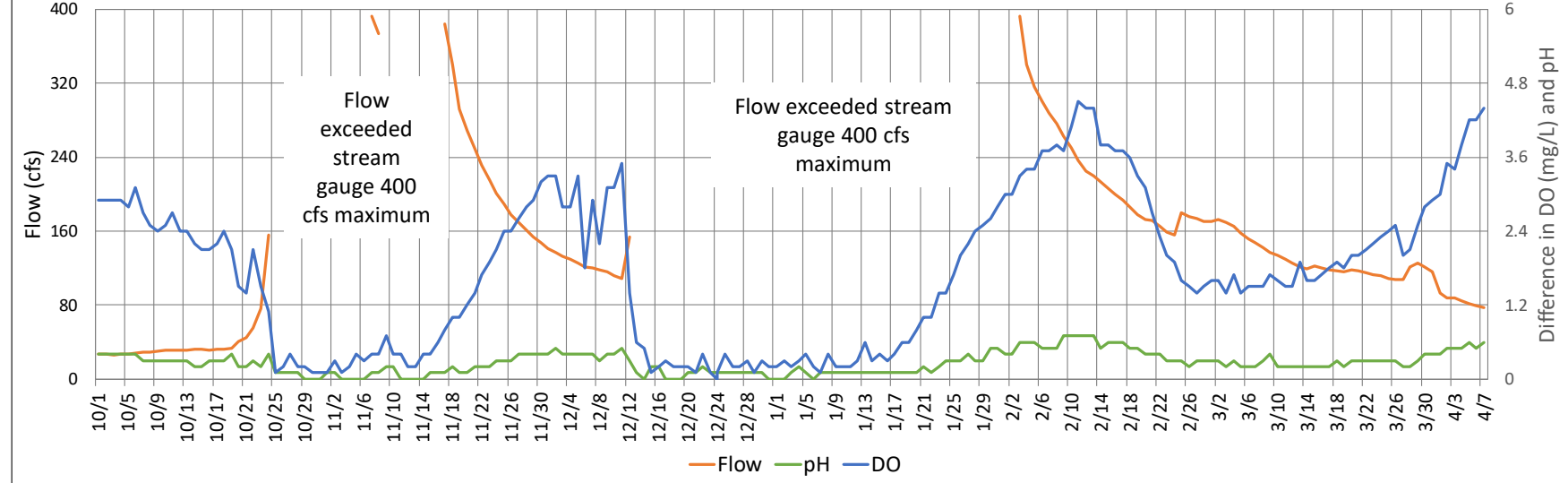
Russian River Water Quality (October 1, 2021 - April 7, 2022)

Digger Bend

Digger Bend Water Quality Trend

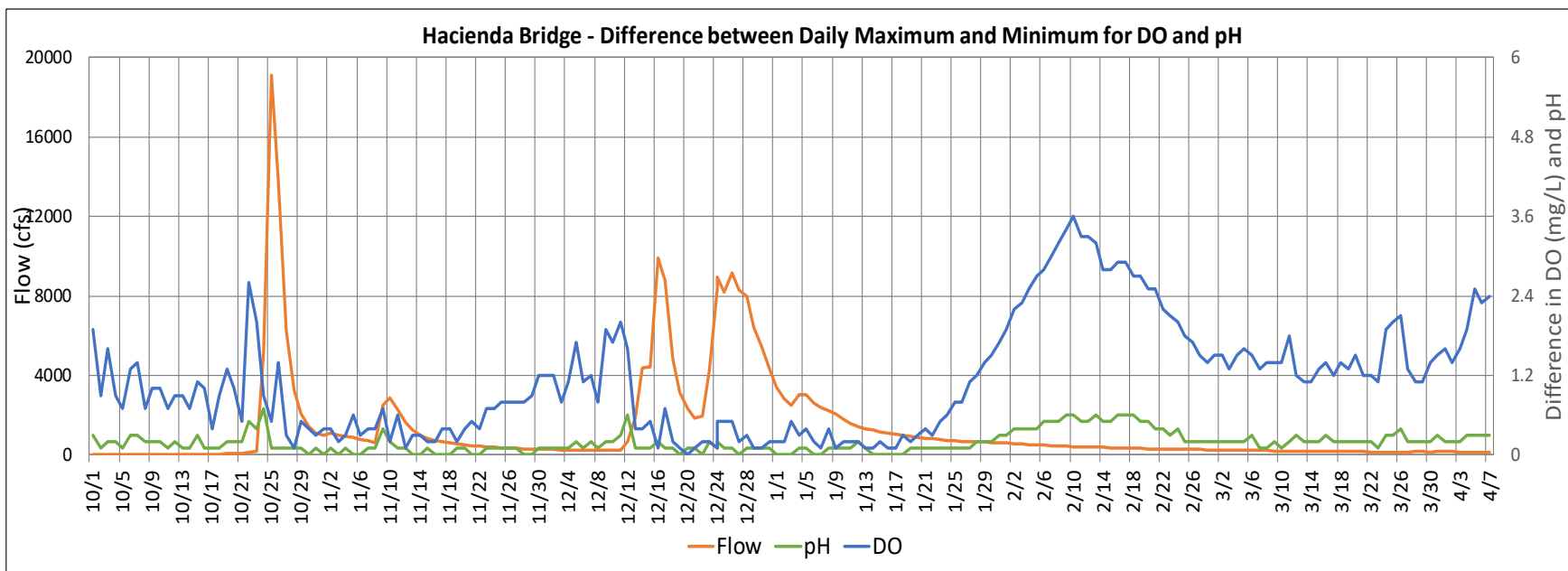
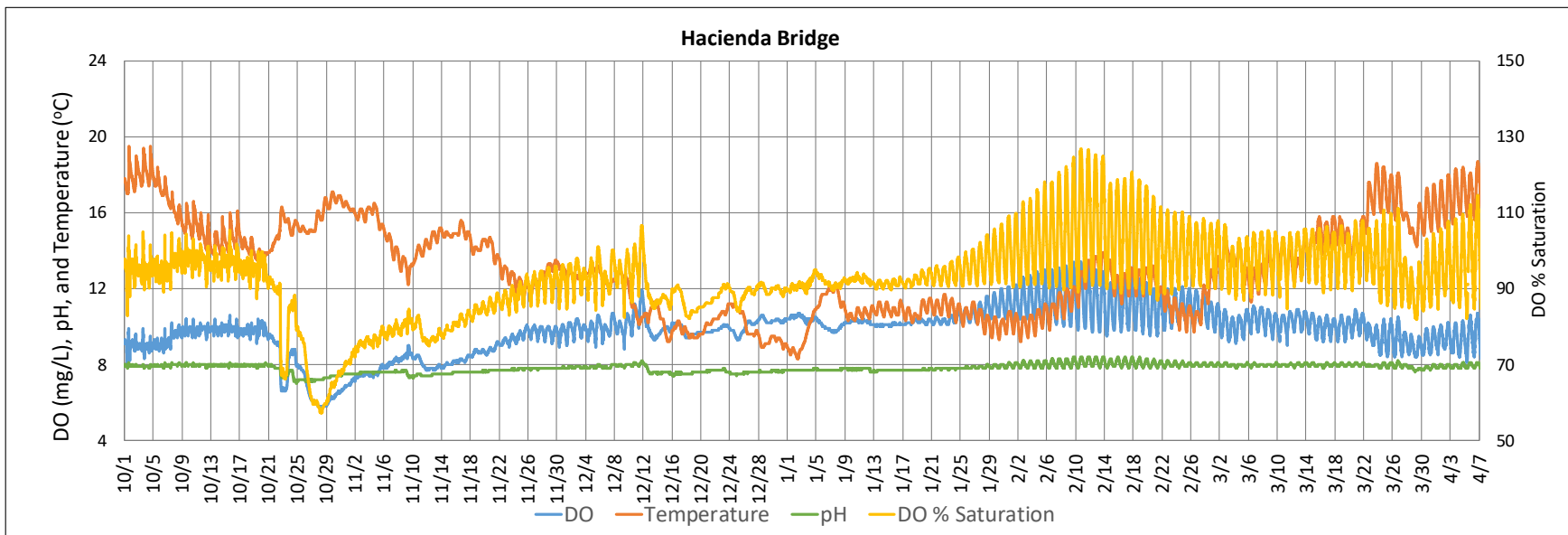


Digger Bend - Difference between Daily Maximum and Minimum for DO and pH



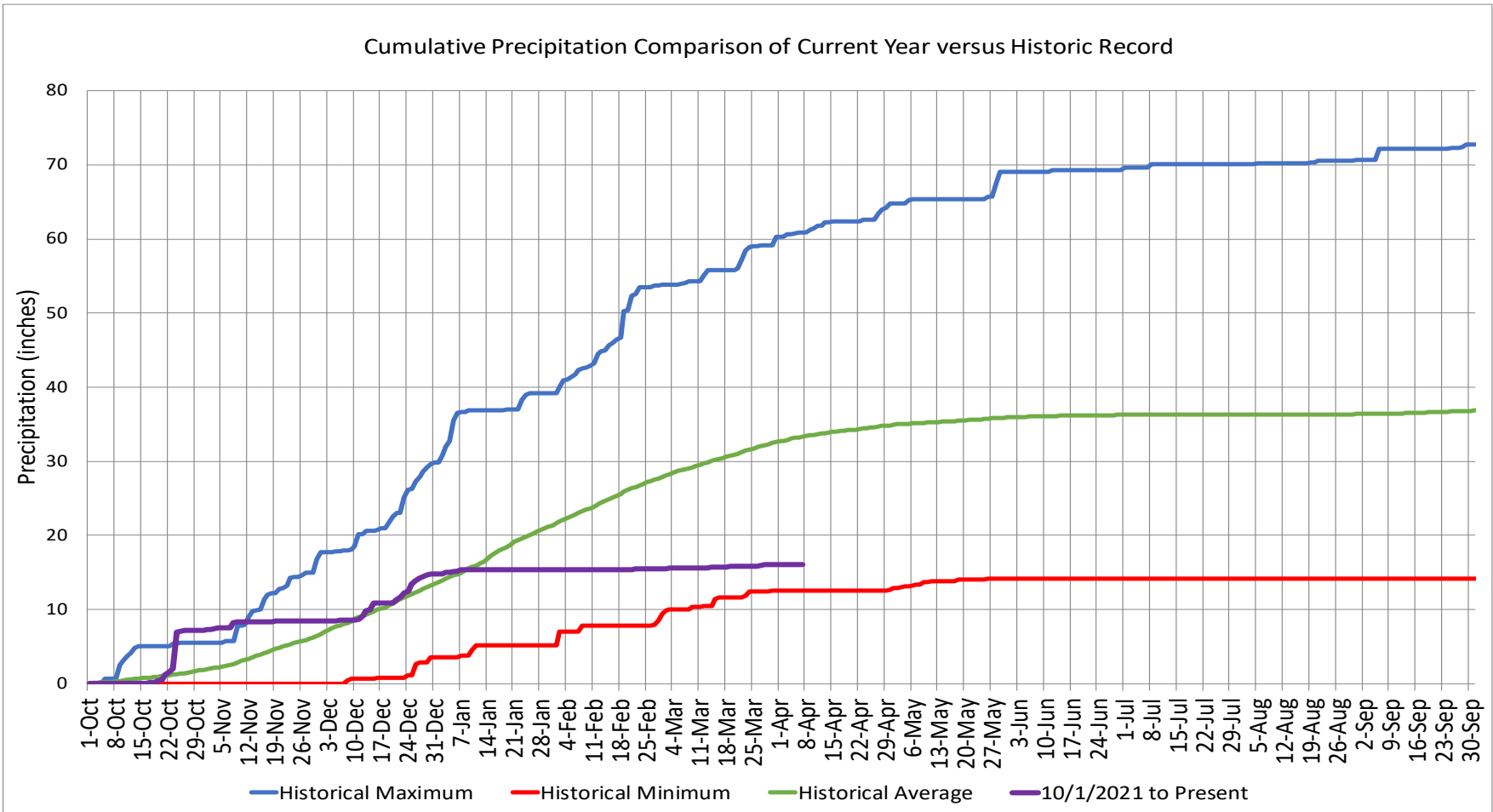
Russian River Water Quality (October 1, 2021 - April 7, 2022)

Hacienda Bridge

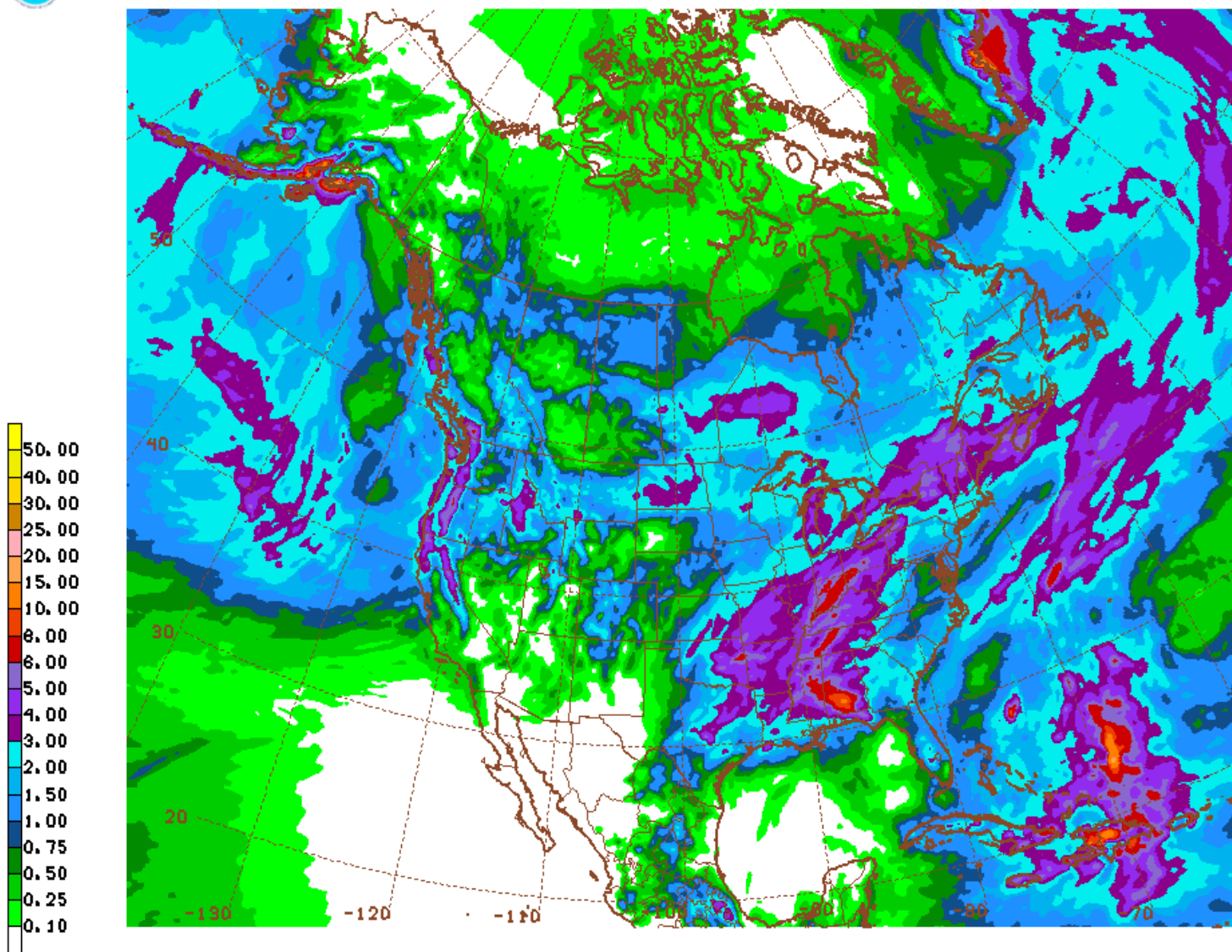


Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2021 - Apr 7, 2022	16.09
Last 7 Days*	0.00



GFS 04/11/22 12UTC 384HR FCST VALID WED 04/27/22 12UTC NOAA/NWS/NCEP



GFS WED 220427/1200V384 384HR ACCUMULATED PRECIP (IN)

Date Range	Forecasted Cumulative (inches)
Apr 11 - Apr 27, 2022	1.54