State Water Resources Control Board
Temporary Urgency Change Order (12/11/2021)

Russian River Hydrologic Report
March 18, 2022 - March 24, 2022

Sonoma Water

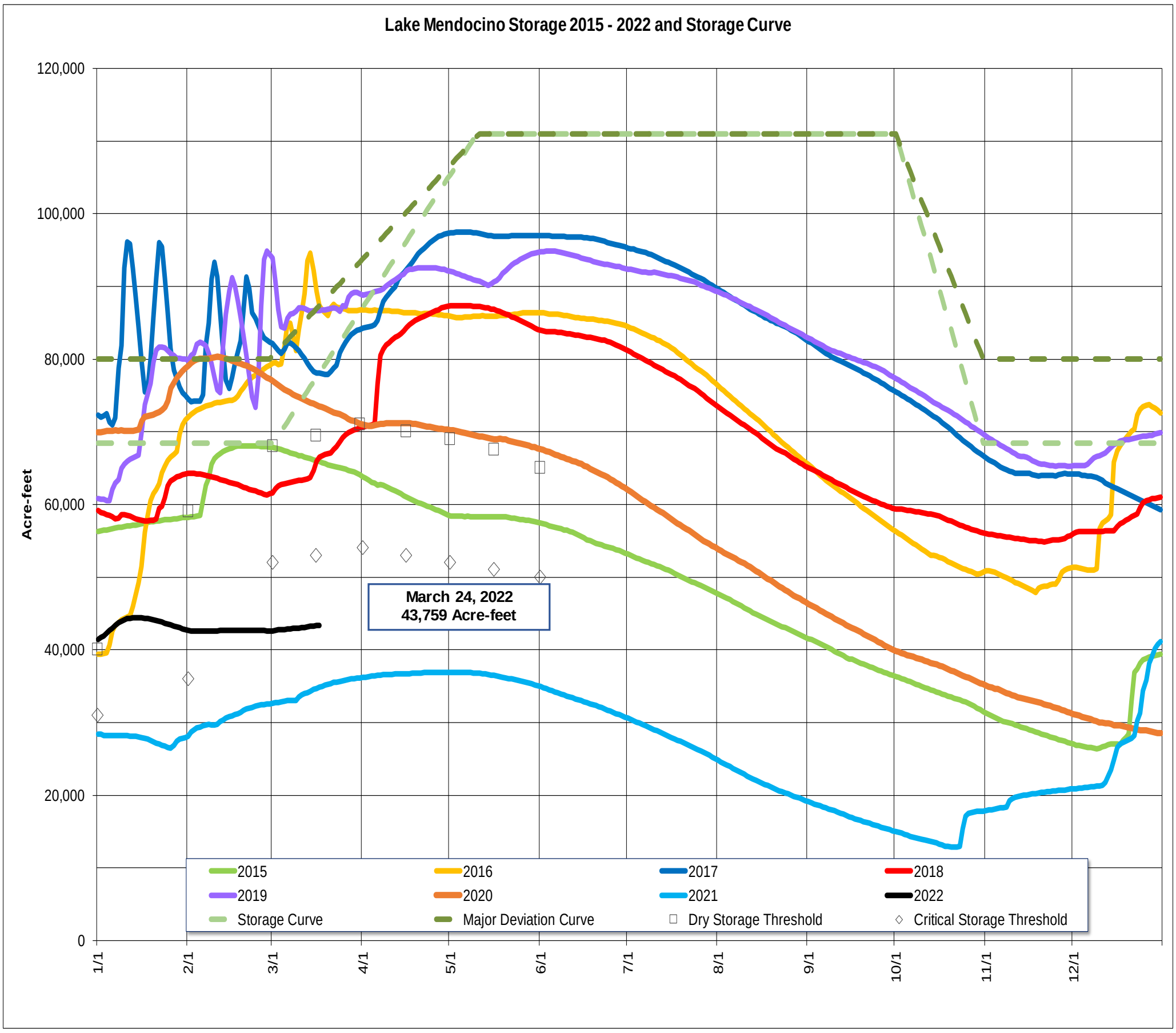
Prepared as a requirement of the Order approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A, 12949, 12950, and 16596 (Applications 12919A, 15736, 15737, and 19351).

Instream Flow Requirements as of March 24, 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.

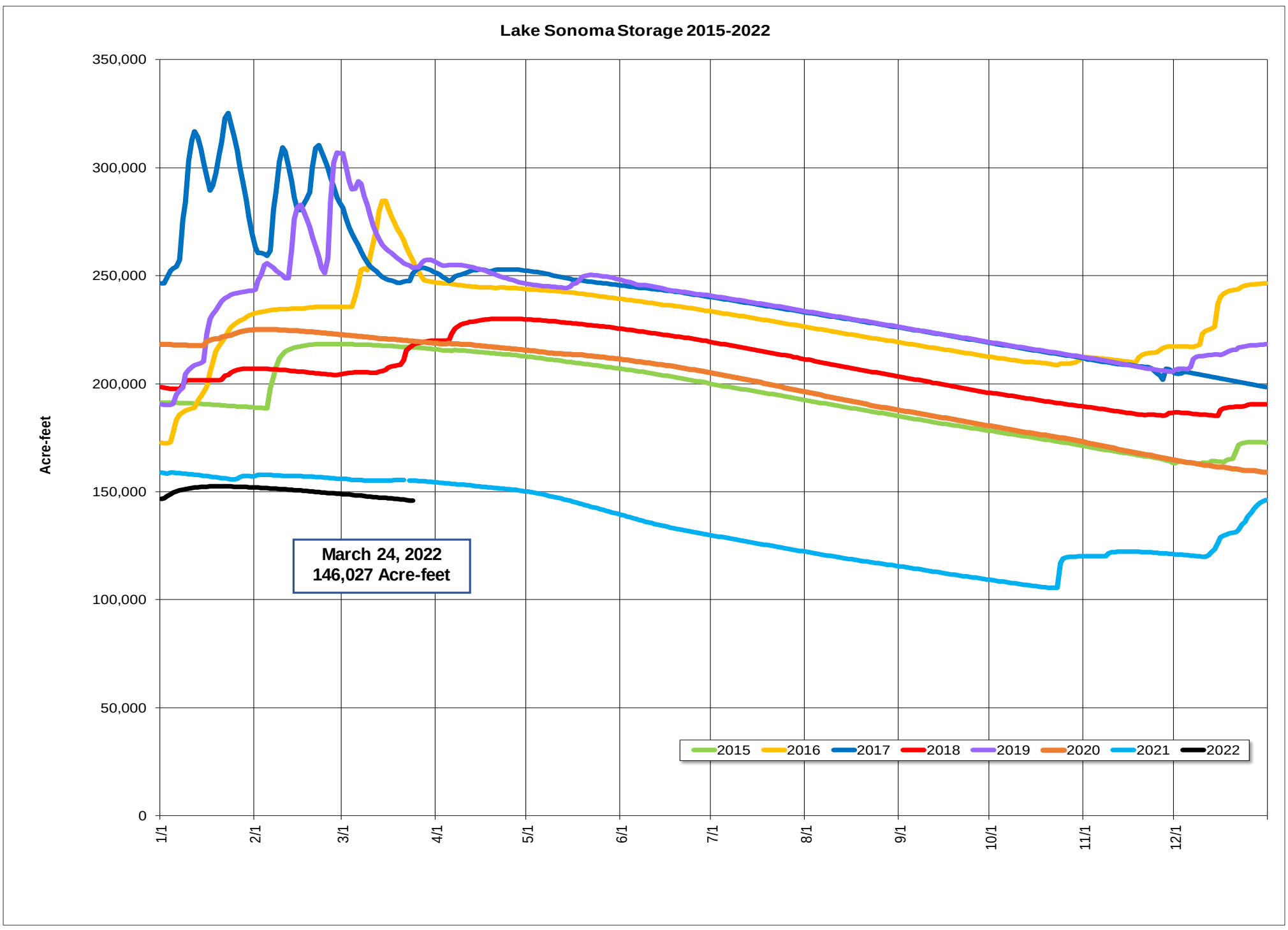
Lake Mendocino



Storage (acre-feet)	March 24, 2022	**43,759**	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	**1,151**	**38**
	Last 7 days	**357**	**51**
Daily Inflow (cfs)	Last 7 days	Min	**56**
		Max	**72**
		Mean	**64**
Release (cfs)	Last 7 days	Min	**28**
		Max	**30**
		Mean	**29**

Lake Sonoma

Nathan Baskett, March 3 , 2011



Storage (acre-feet)	March 24, 2022	**146,027**	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	**-3,831**	**-128**
	Last 7 days	**-840**	**-120**
Daily Inflow (cfs)	Last 7 days	Min	**6**
		Max	**18**
		Mean	**12**
Release (cfs)	Last 7 days	Min	**76**
		Max	**77**
		Mean	**77**

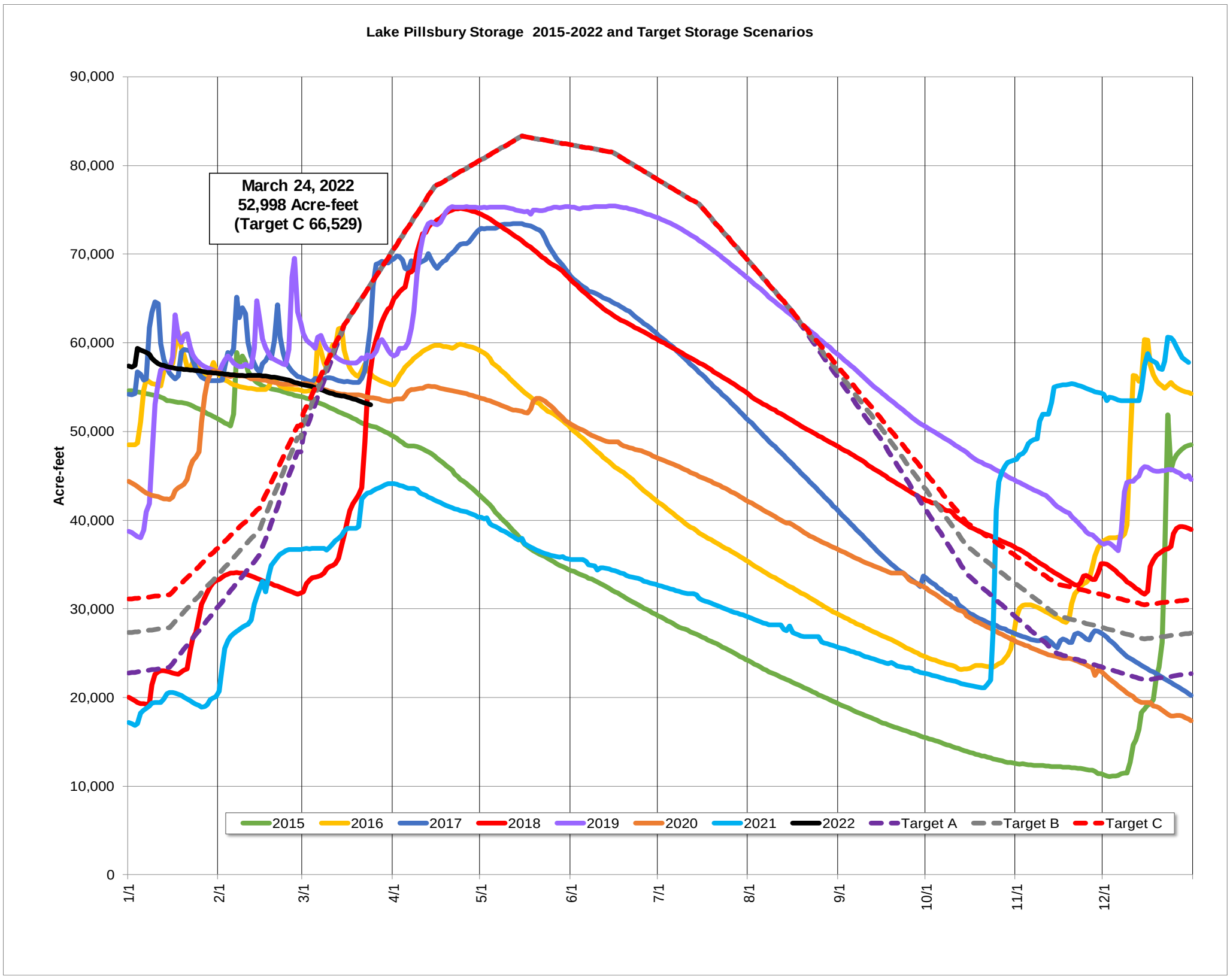
Potter Valley Project

PVP Diversion (cfs)	March 24, 2022	**69**

Lake Pillsbury

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2021 - March 24, 2022	**189,643**	**1090**
	Last 7 days	**1,770**	**253**

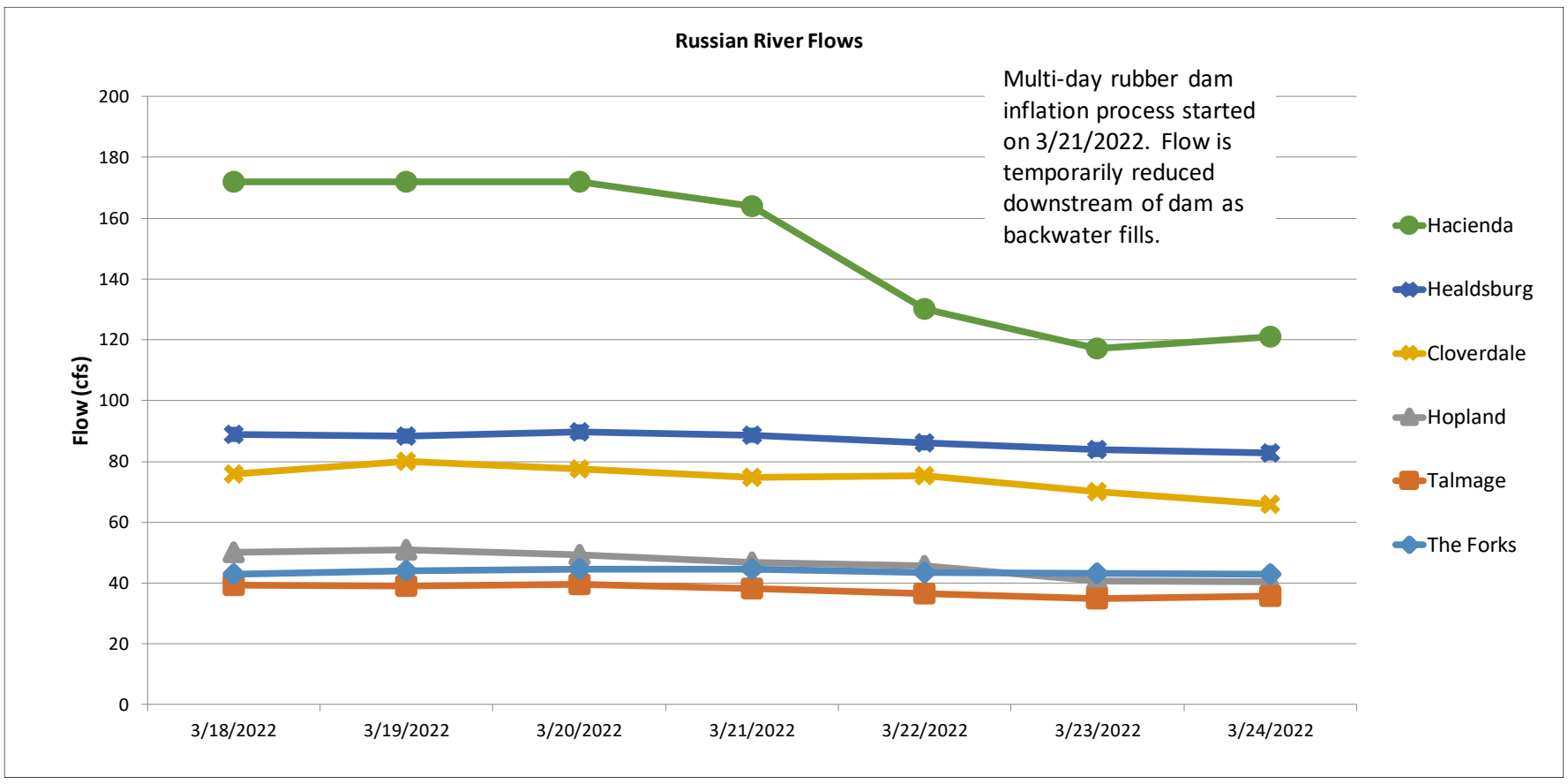
*Inflow calculation based on criteria established in D1610



Russian River Flows (March 18, 2022 - March 24, 2022)

Gage	24-hr Average Flow (cfs)						
	Mar 18, 2022	Mar 19, 2022	Mar 20, 2022	Mar 21, 2022	Mar 22, 2022	Mar 23, 2022	Mar 24, 2022
The Forks*	43	44	45	45	44	43	43
Talmage USGS 11462080	39	39	40	38	37	35	36
Hopland USGS 11462500	50	51	49	47	46	41	40
Cloverdale USGS 11463000	76	80	78	75	75	70	66
Healdsburg USGS 11464000	89	88	90	89	86	84	83
Hacienda USGS 11467000	172	172	172	164	130	117	121

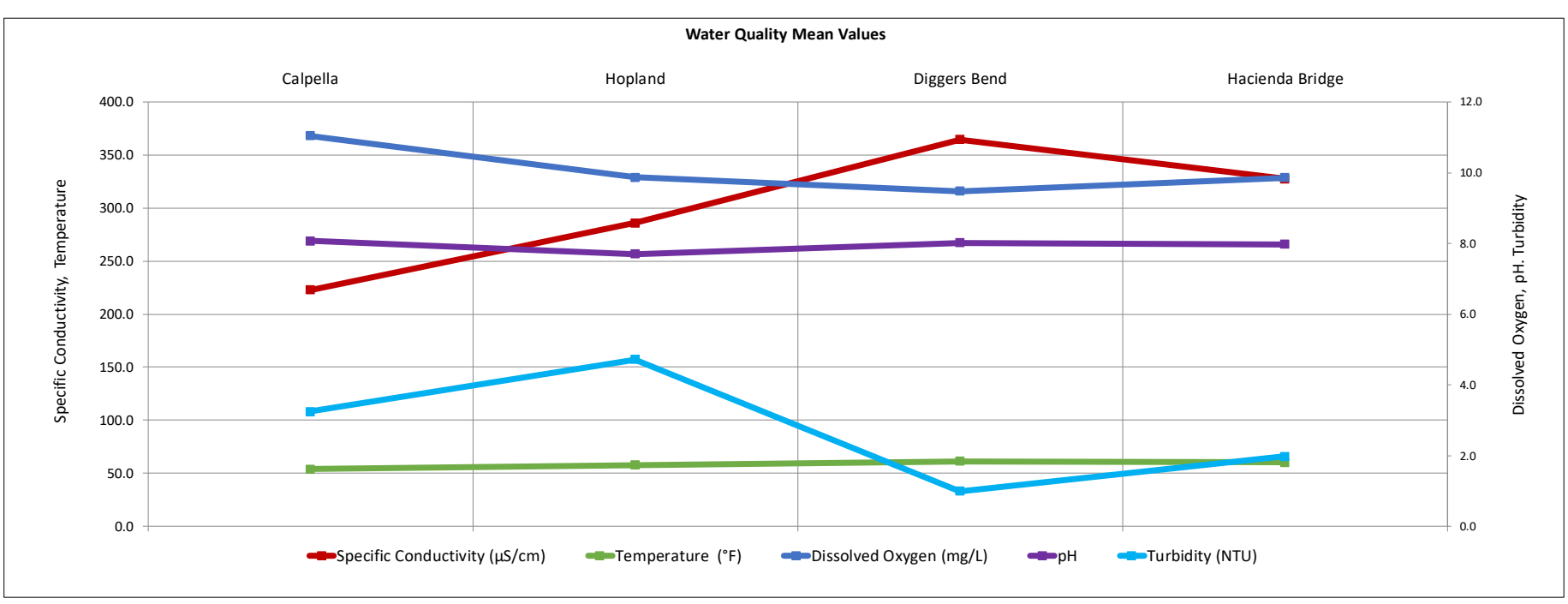
*West Fork (USGS 11461000) + East Fork (Coyote Valley Dam Release)



Russian River Water Quality (March 18, 2022 - March 24, 2022)

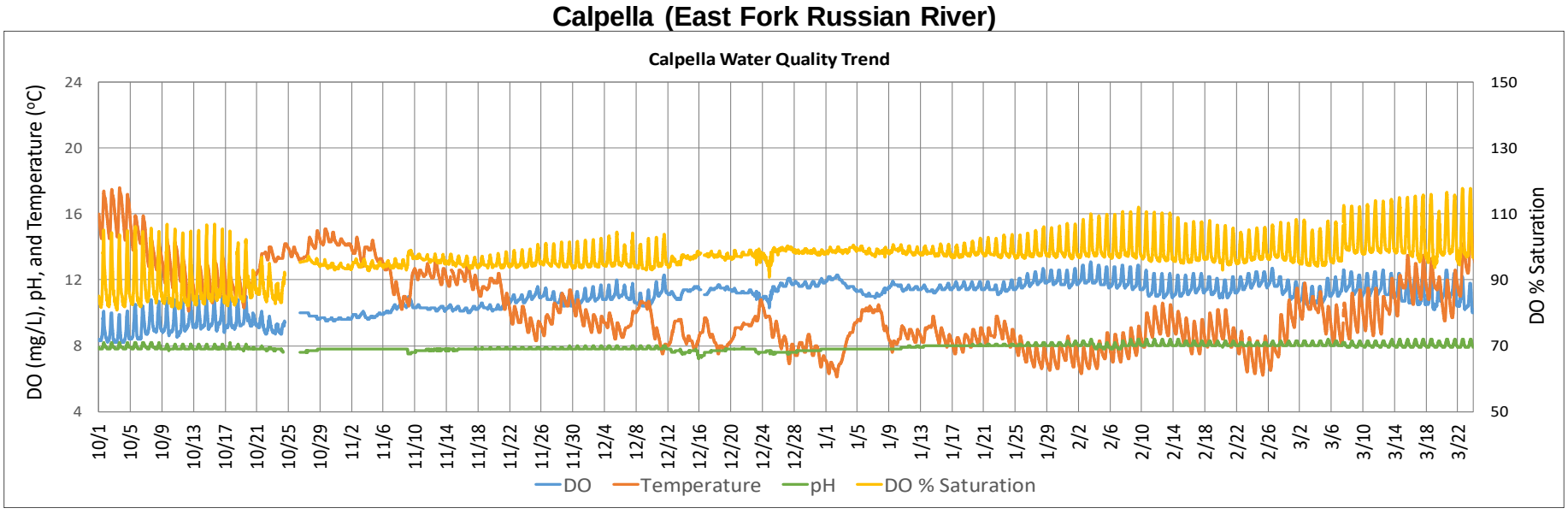
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463200	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	49.1	52.5			55.6		55.6	
	Max	59.9	62.6			67.3		65.5	
	Mean	53.9	57.8			61.1		60.2	
Specific Conductivity (µS/cm)	Min	217.0	284.0			362.0		318.0	
	Max	234.0	290.0			366.0		339.0	
	Mean	223.0	285.9			364.5		327.5	
Dissolved Oxygen (mg/L)	Min	10.0	7.9			8.2		8.5	
	Max	12.6	11.7			10.9		10.9	
	Mean	11.0	9.9			9.5		9.9	
Dissolved Oxygen (% Saturation)	Min	93.8	77.0			82.9		86.1	
	Max	117.8	120.6			113.8		110.7	
	Mean	102.8	96.5			96.5		99.2	
pH	Min	7.9	7.5			7.9		7.8	
	Max	8.4	8.0			8.2		8.1	
	Mean	8.1	7.7			8.0		8.0	
Turbidity (NTU)	Min	1.6	2.5			0.4		1.2	
	Max	5.2	11.7			2.5		3.0	
	Mean	3.2	4.7			1.0		2.0	

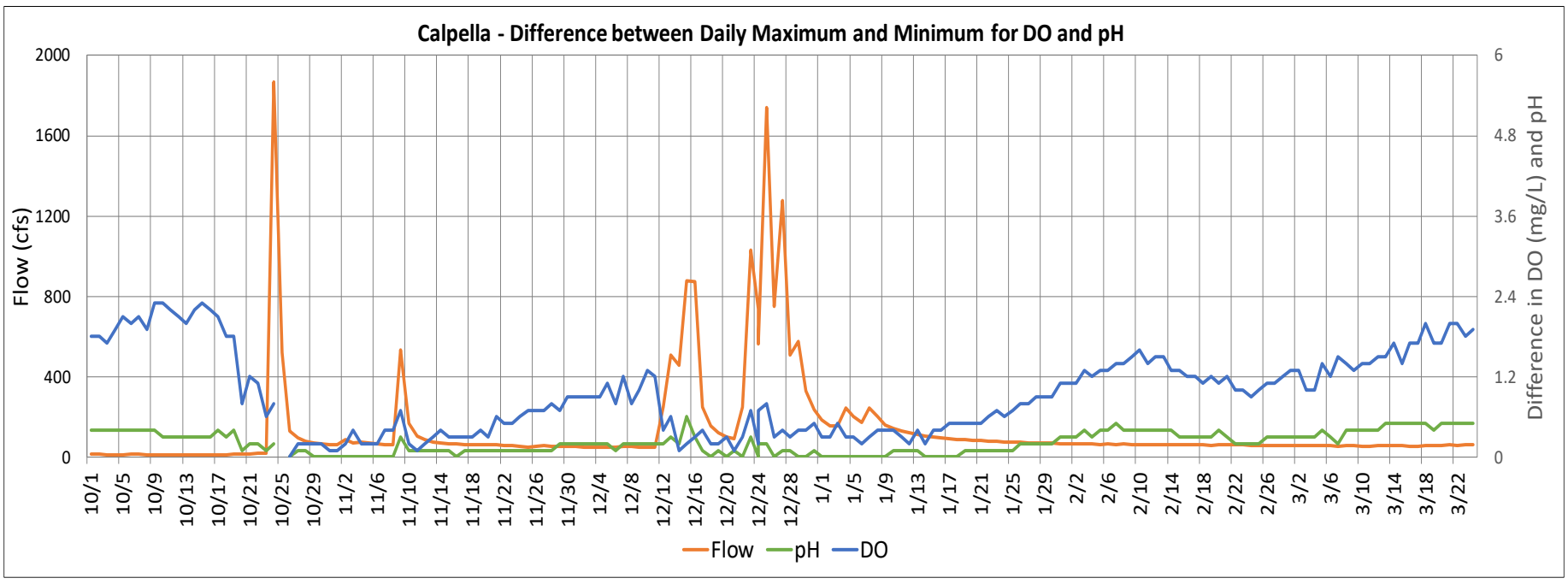
*Station operated seasonally



Russian River Water Quality (October 1, 2021 - March 24, 2022)

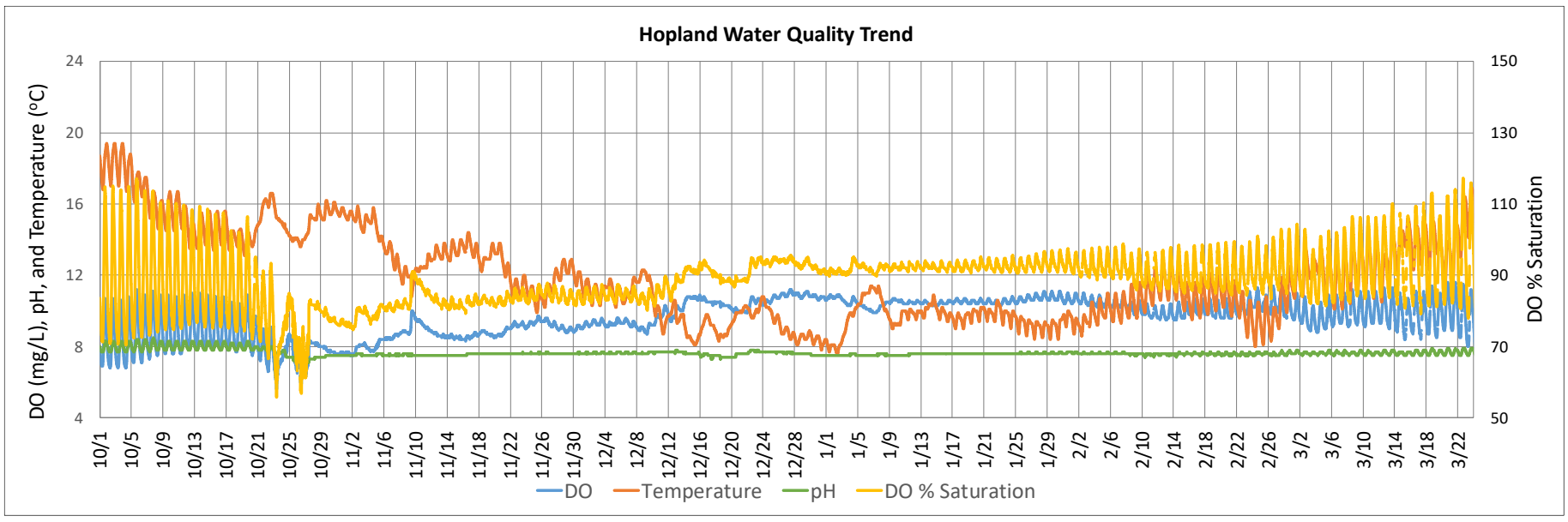
Calpella (East Fork Russian River)

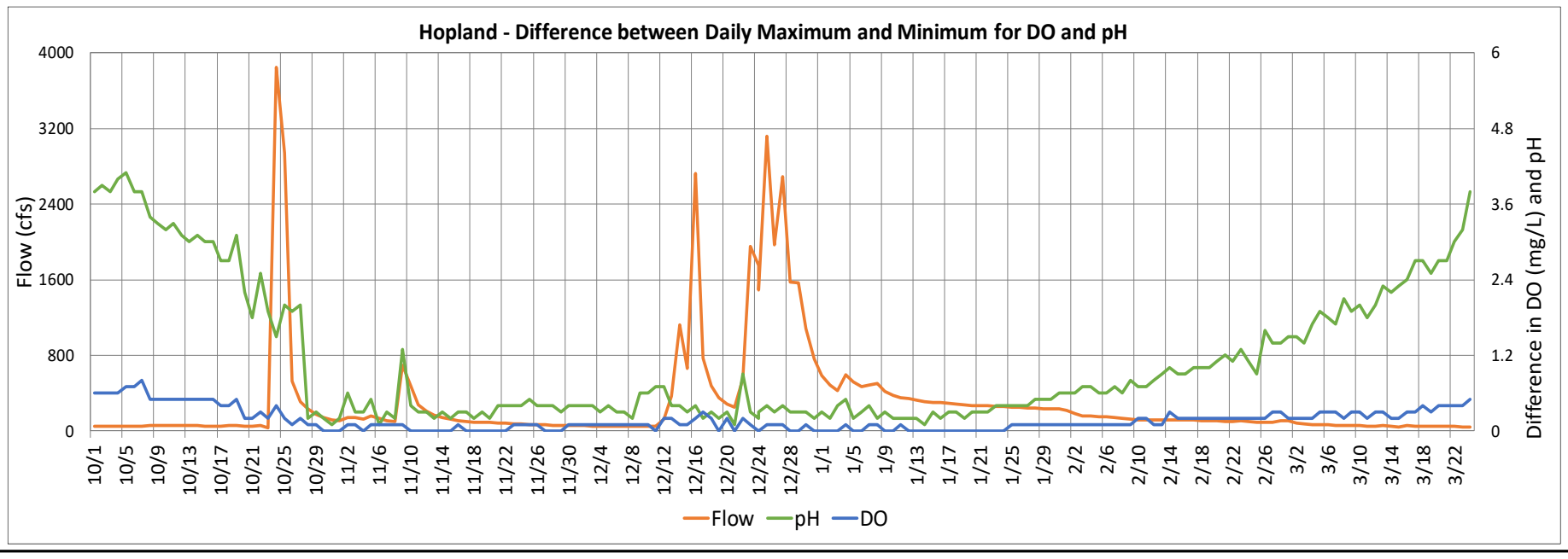




Russian River Water Quality (October 1, 2021 - March 24, 2022)

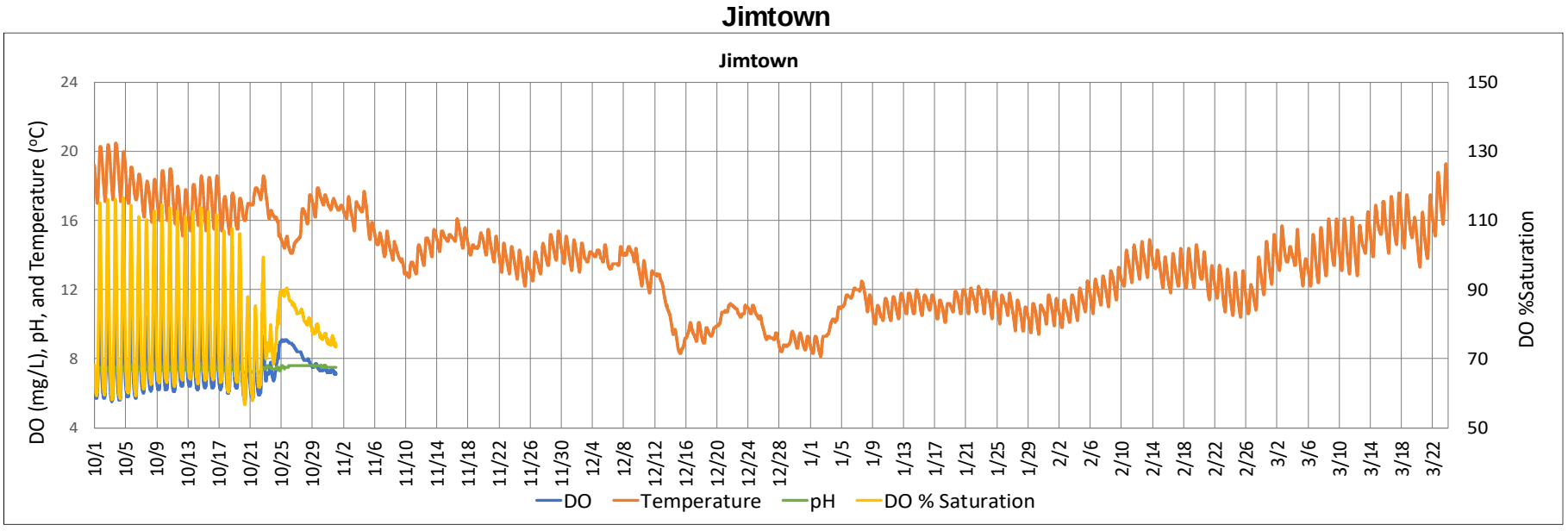
Hopland

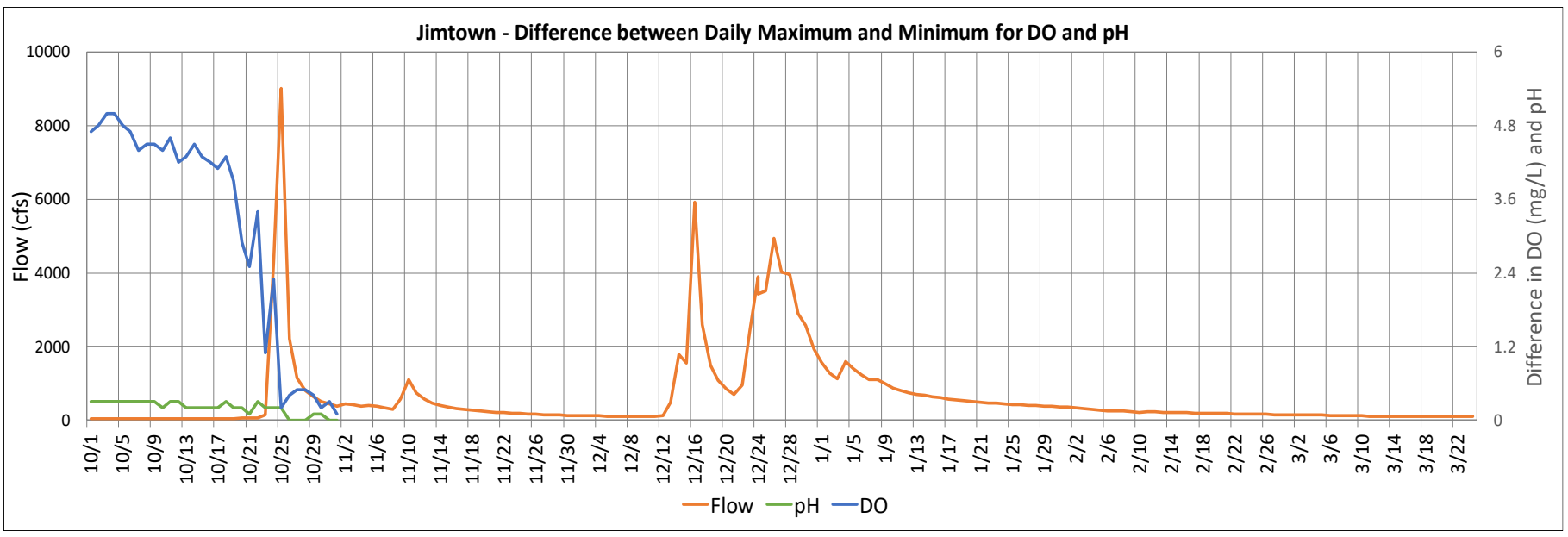




Russian River Water Quality (October 1, 2021 - March 24, 2022)

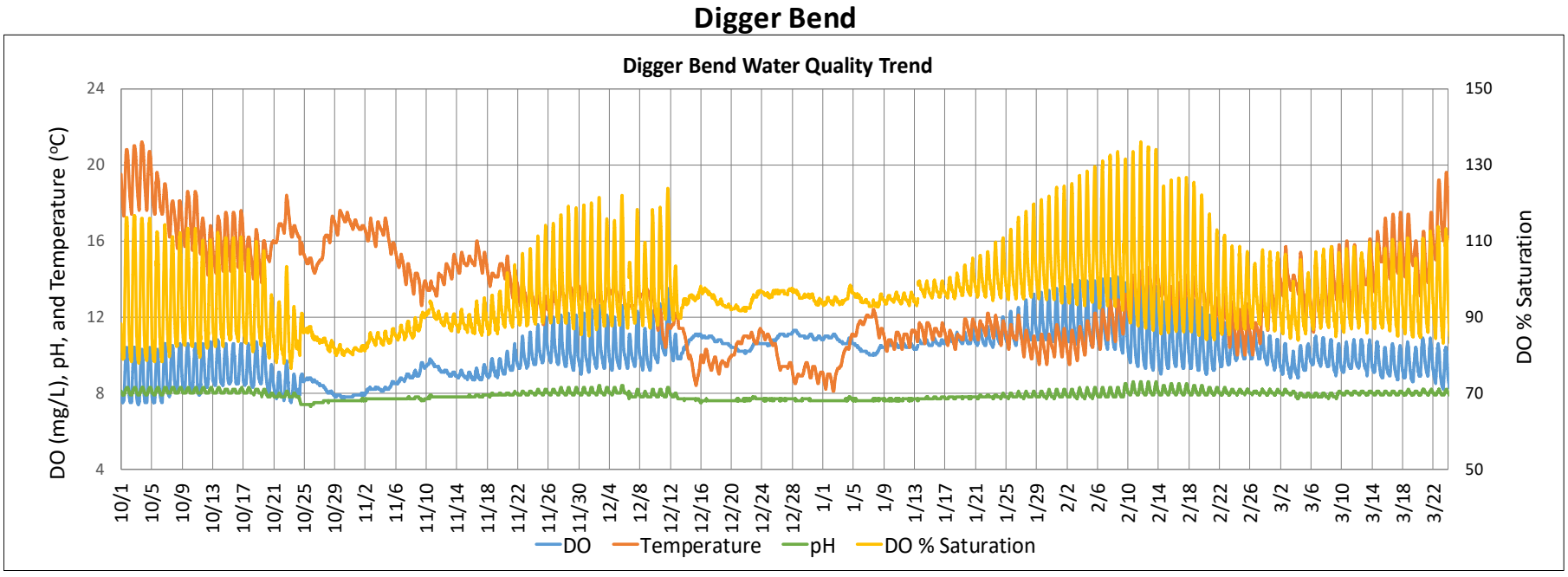
Jimtown

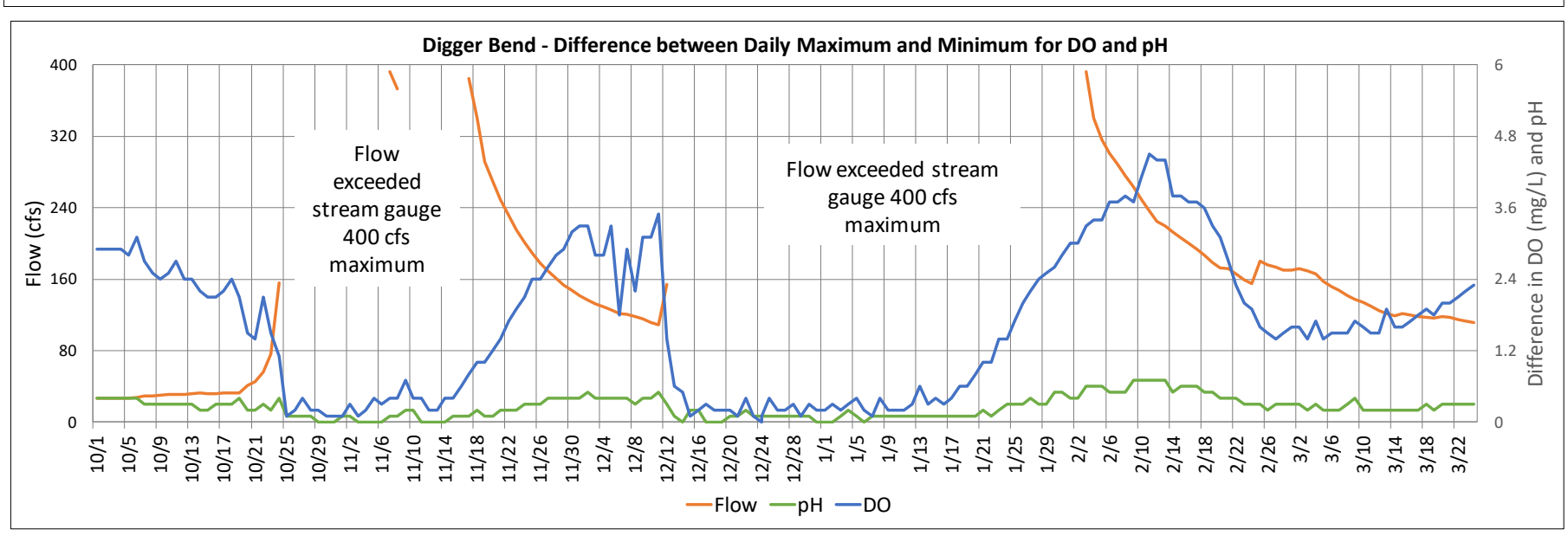




Russian River Water Quality (October 1, 2021 - March 24, 2022)

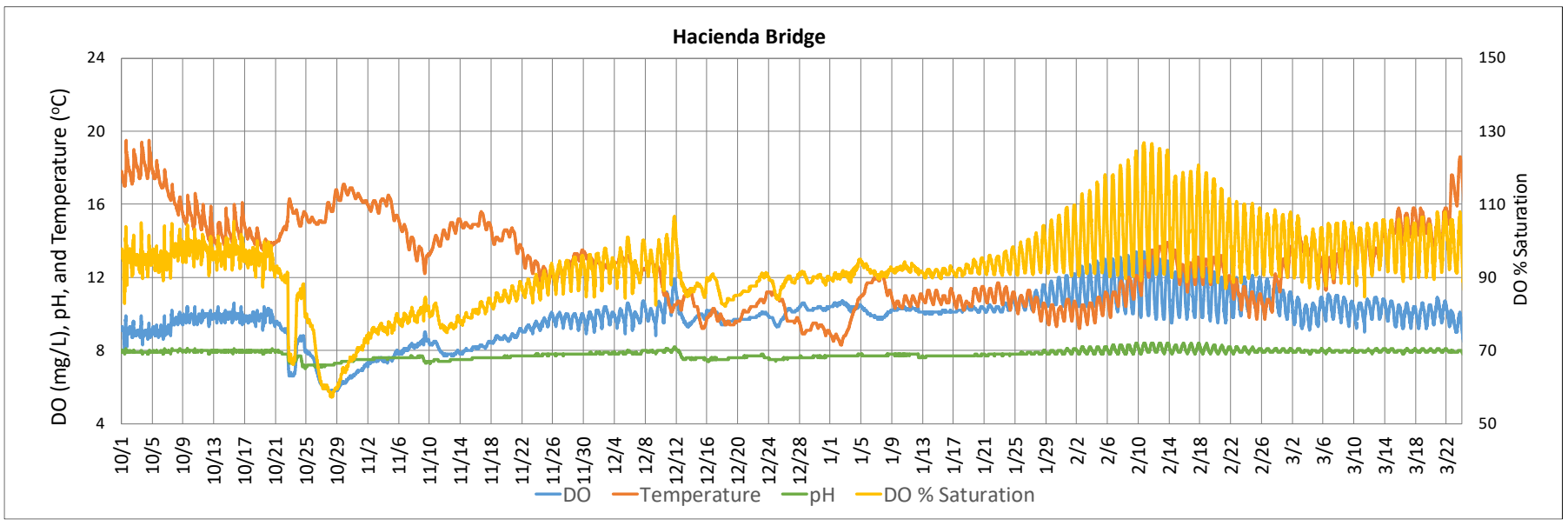
Digger Bend

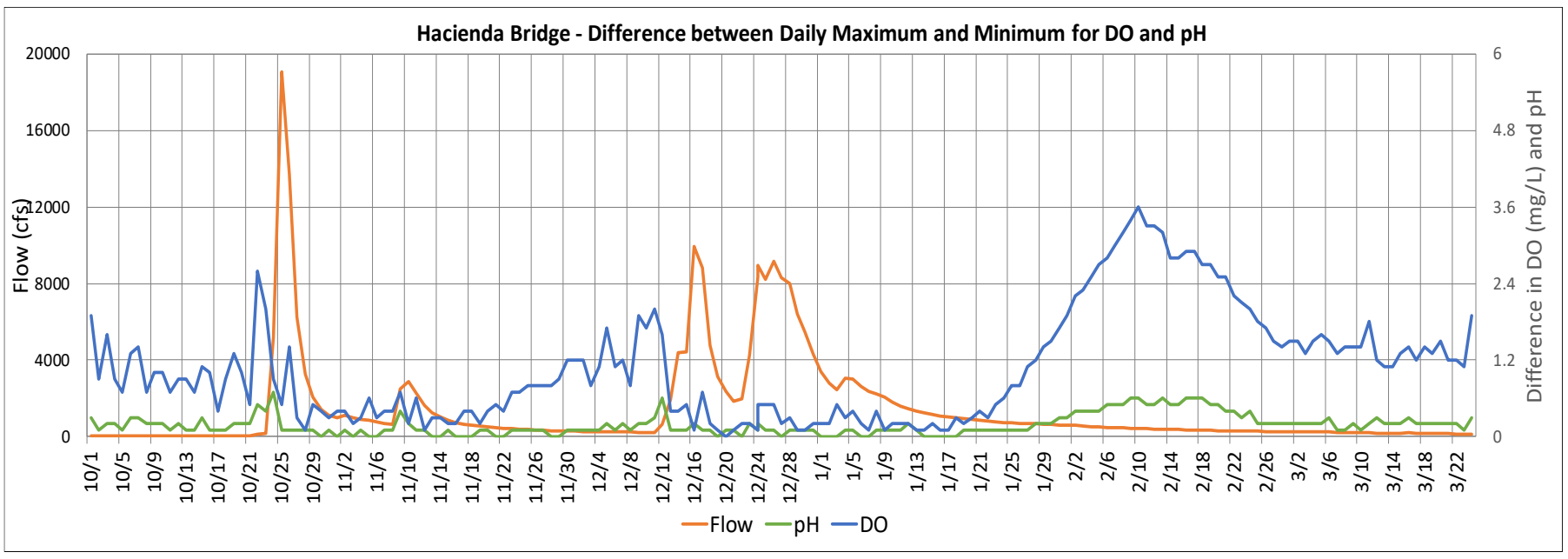




Russian River Water Quality (October 1, 2021 - March 24, 2022)

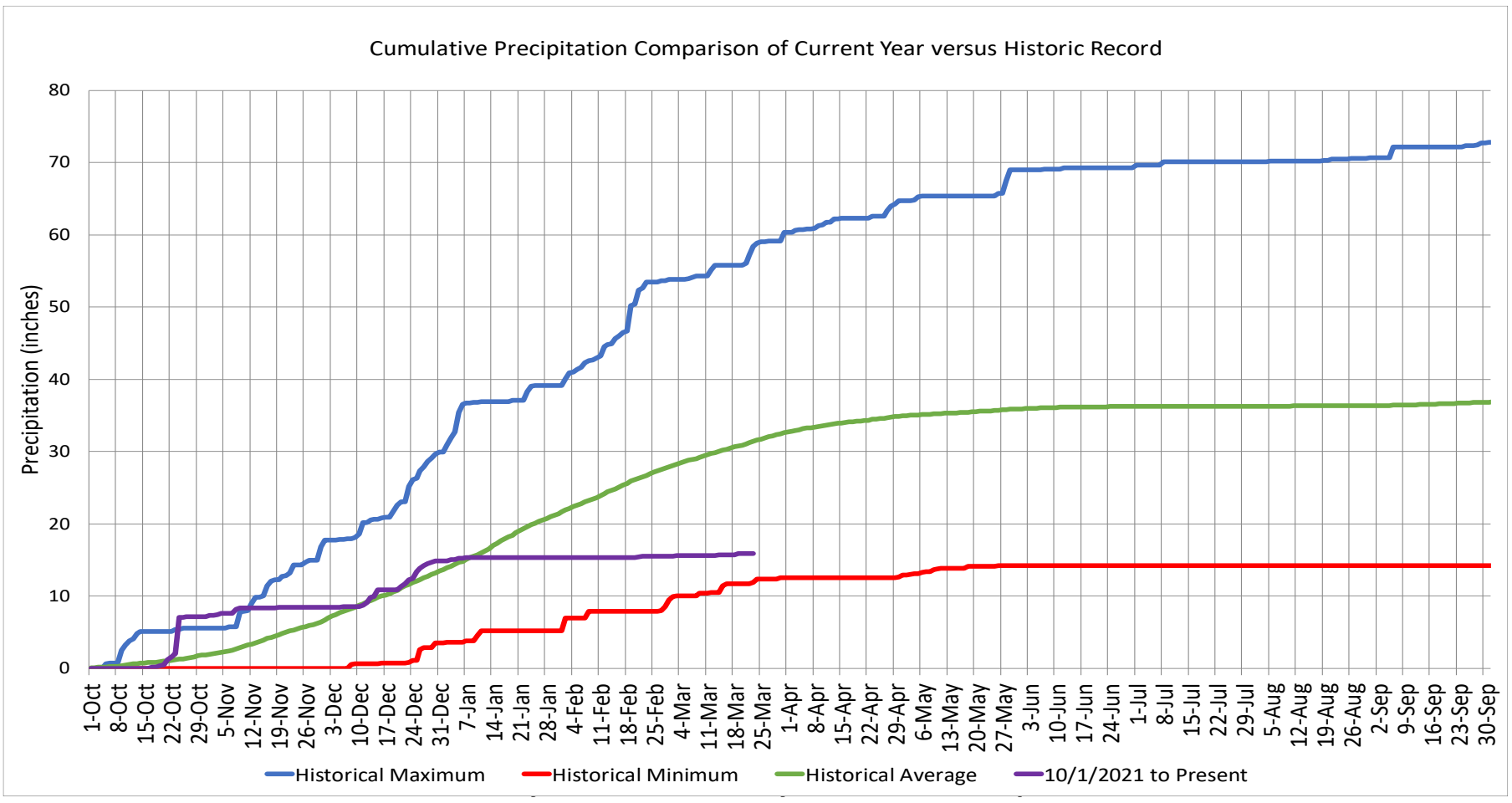
Hacienda Bridge

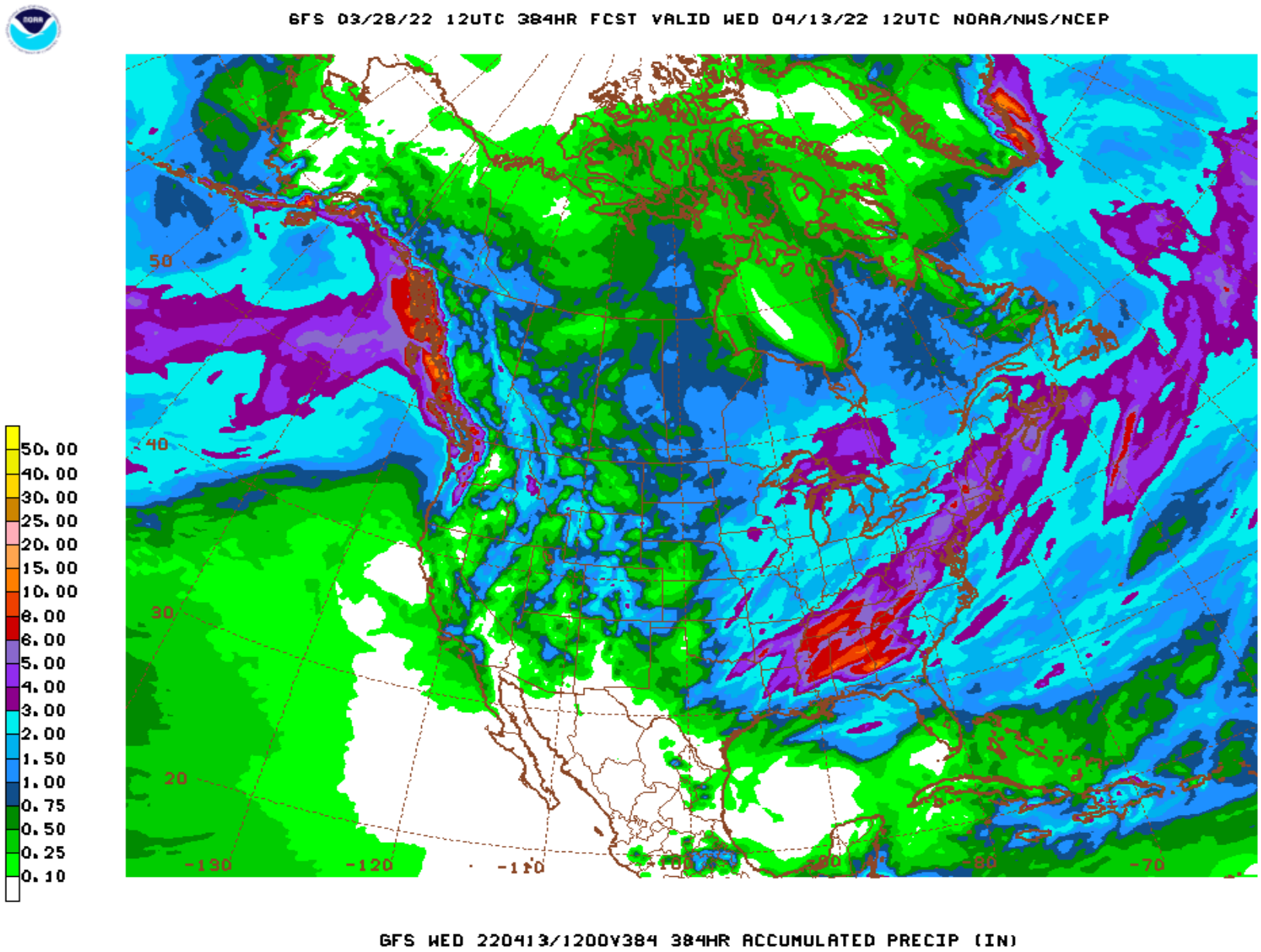




Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2021 - Mar 24, 2022	**15.86**
Last 7 Days*	**0.12**





Date Range	Forecasted Cumulative (inches)
Mar 28 - Apr 13, 2022	**0.03**