



Sonoma
Water

State Water Resources Control Board
Temporary Urgency Change Order (12/11/2021)
Russian River Hydrologic Report
December 24, 2021 - December 30, 2021

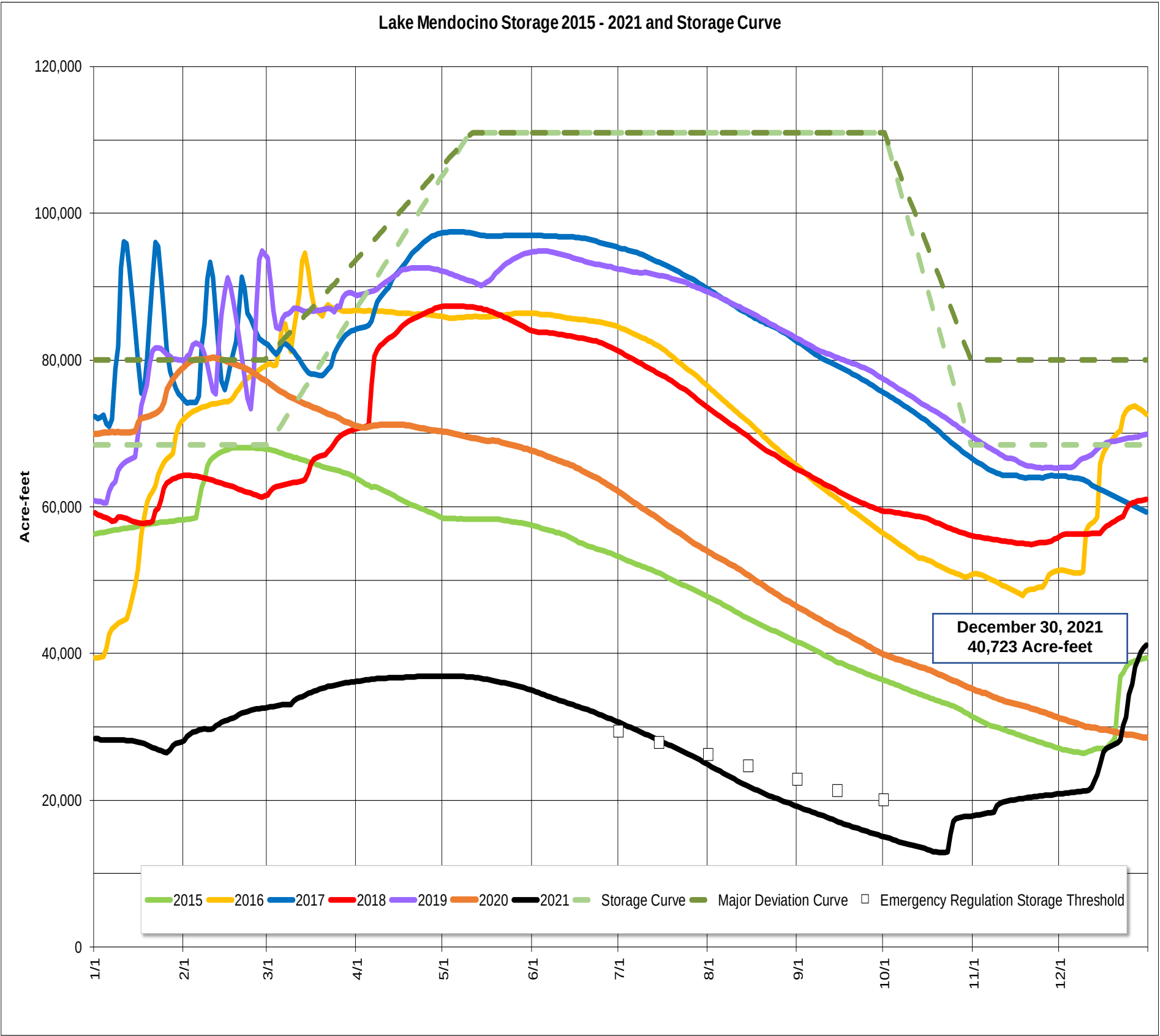
Prepared as a requirement of the Order approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A, 12949, 12950, and 16596 (Applications 12919A, 15736, 15737, and 19351).

Instream Flow Requirements as of December 30, 2021

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

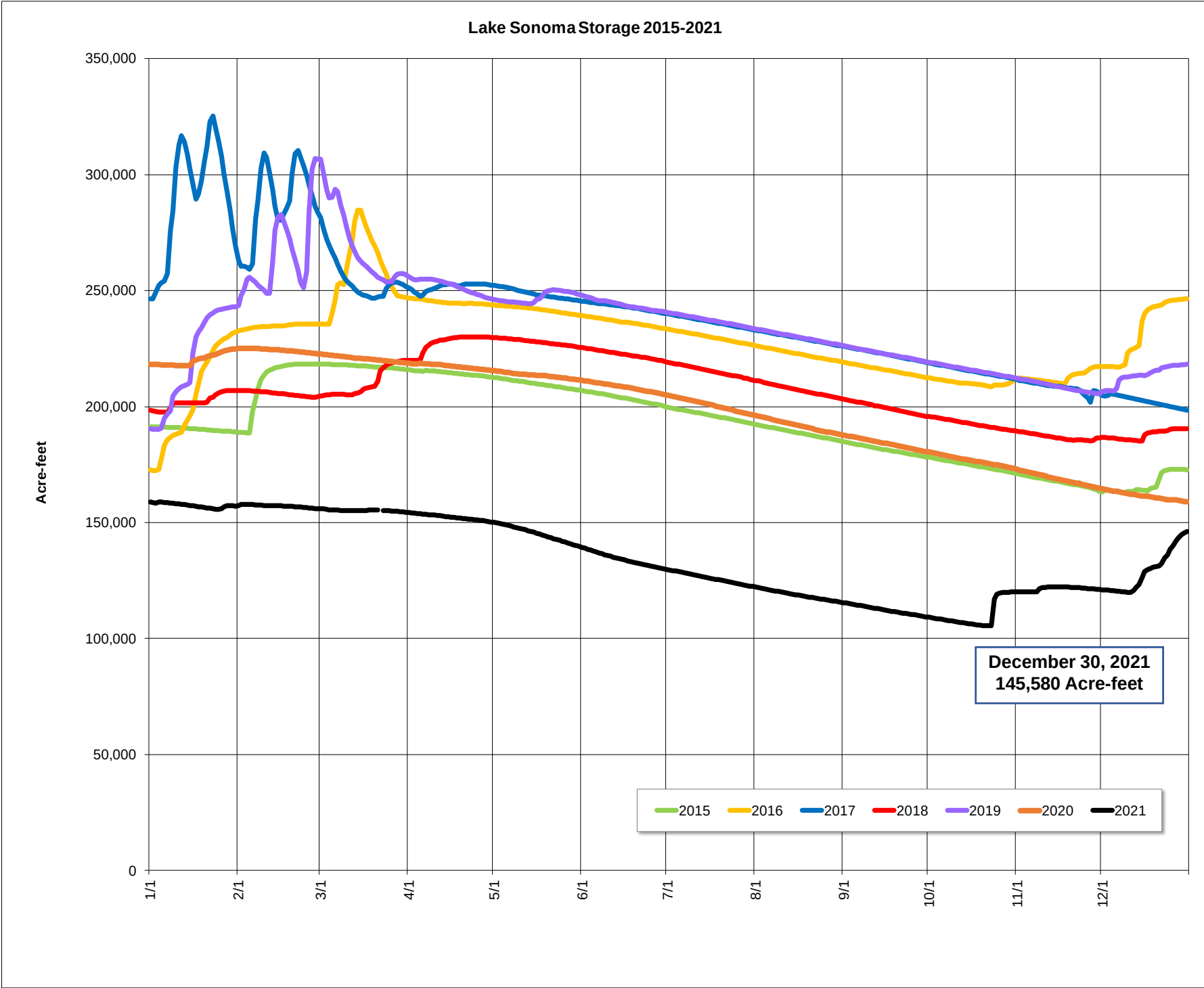


Storage (acre-feet)	December 30, 2021	40,723	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	19,891	663
	Last 7 days	9,461	1,352
Daily Inflow (cfs)	Last 7 days	Min	322
		Max	1,608
		Mean	788
Release (cfs)	Last 7 days	Min	29
		Max	30
		Mean	29

Lake Sonoma



Nathan Baskett, March 3 , 2011



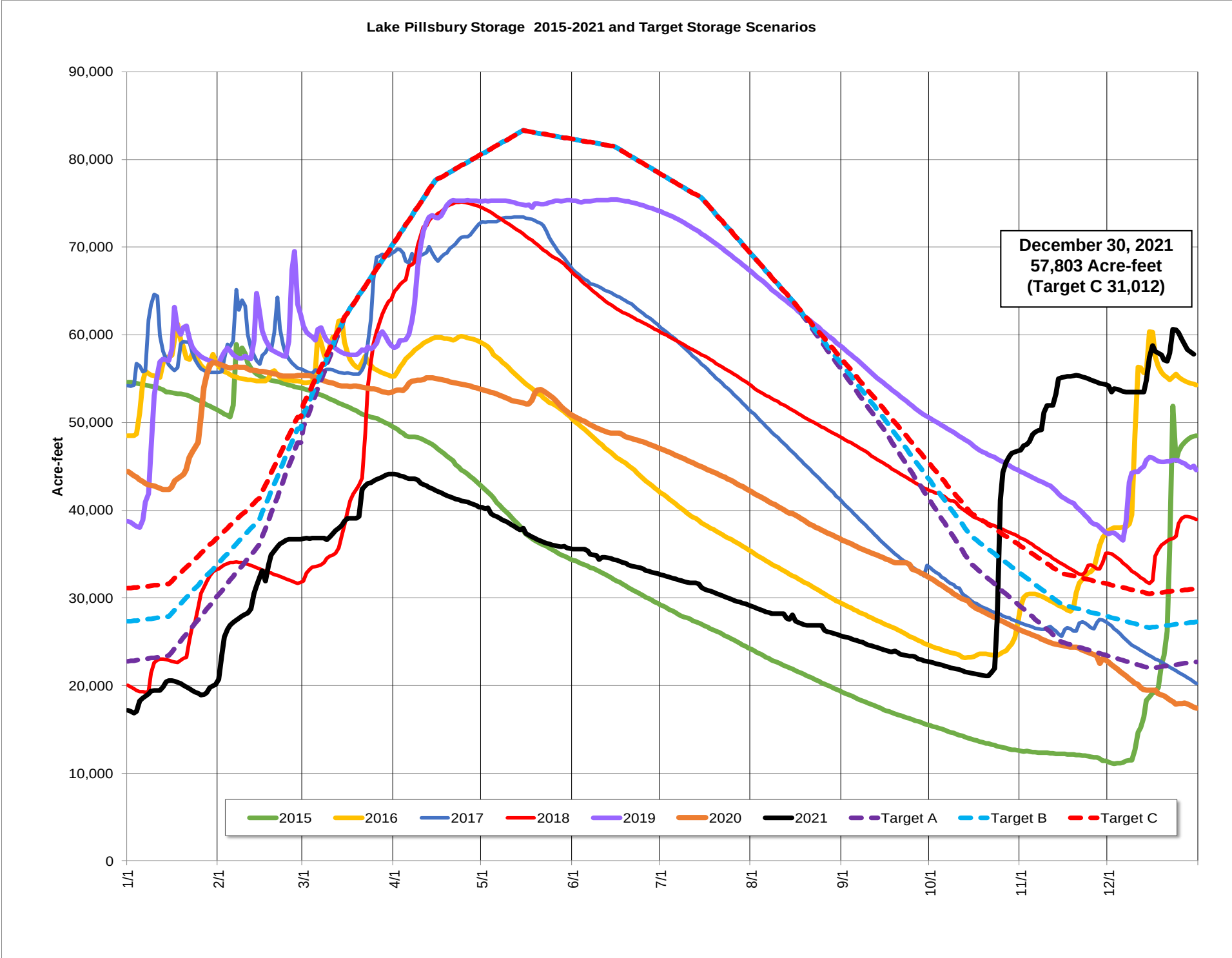
Storage (acre-feet)	December 30, 2021	145,580	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	24,413	814
	Last 7 days	9,365	1,338
Daily Inflow (cfs)	Last 7 days	Min	509
		Max	1,259
		Mean	857
Release (cfs)	Last 7 days	Min	76
		Max	77
		Mean	77

Potter Valley Project		
PVP Diversion (cfs)	December 30, 2021	45

Lake Pillsbury

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2021 - December 29, 2021	114,959	1277
	Last 7 days	20,945	2,992

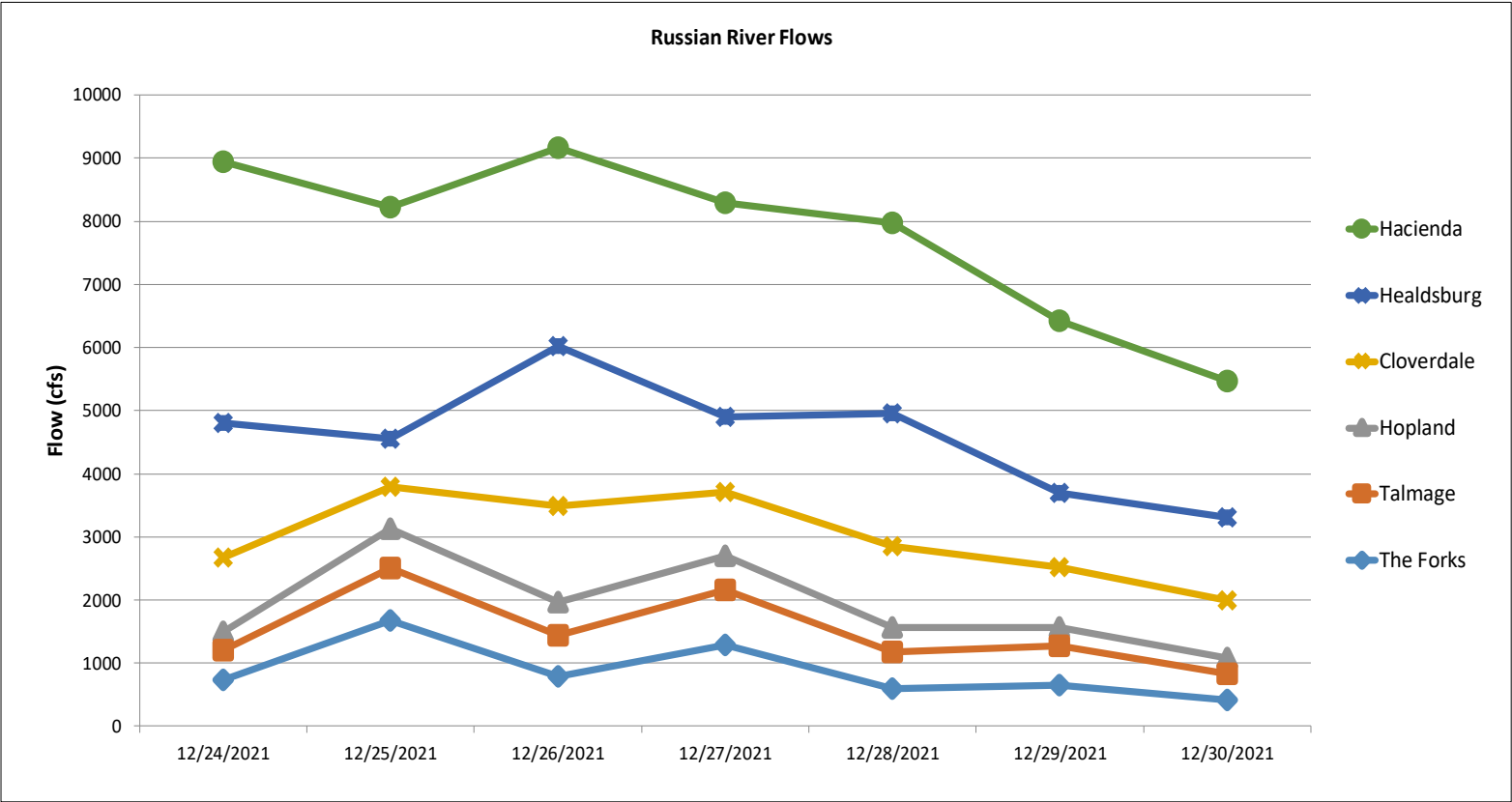
*Inflow calculation based on criteria established in D1610



Russian River Flows (December 24 - December 30, 2021)

Gage	24-hr Average Flow (cfs)						
	Dec 24, 2021	Dec 25, 2021	Dec 26, 2021	Dec 27, 2021	Dec 28, 2021	Dec 29, 2021	Dec 30, 2021
The Forks*	734	1679	793	1289	601	655	410
Talmage USGS 11462080	1200	2500	1440	2160	1170	1270	830
Hopland USGS 11462500	1490	3130	1960	2700	1570	1570	1080
Cloverdale USGS 11463000	2676	3789	3486	3708	2856	2517	1995
Healdsburg USGS 11464000	4800	4560	6020	4900	4950	3700	3310
Hacienda USGS 11467000	8950	8220	9170	8290	7980	6420	5470

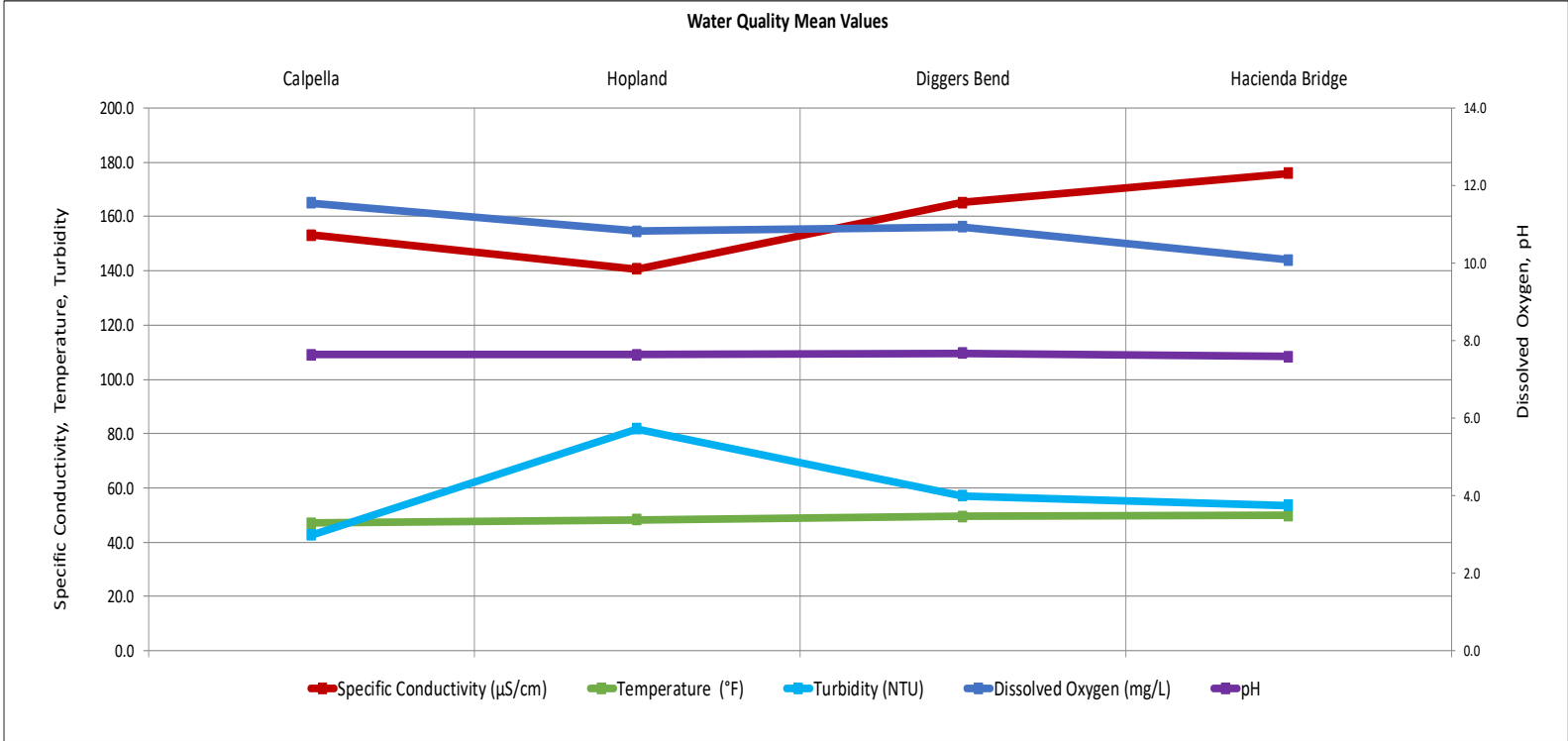
*West Fork (USGS 11461000) + East Fork (Coyote Valley Dam Release)



Russian River Water Quality (December 24 - December 30, 2021)

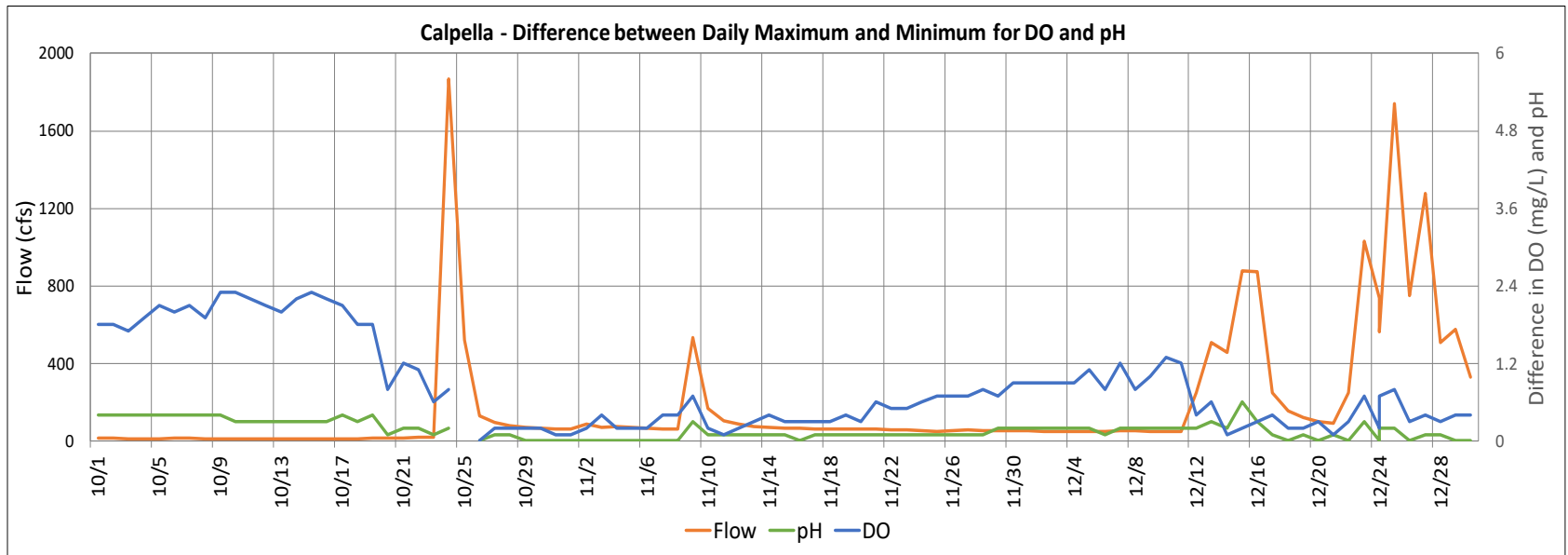
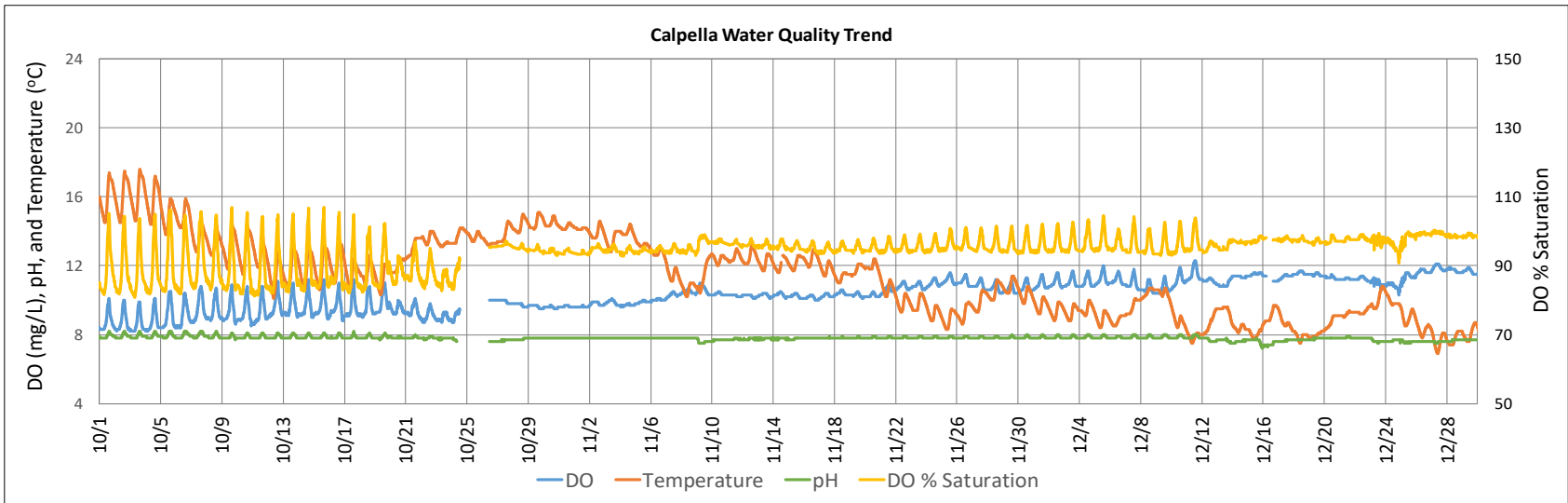
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463200	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	44.4	46.6			47.3		48.0	
	Max	50.9	51.4			52.2		52.2	
	Mean	47.1	48.2			49.4		49.8	
Specific Conductivity (µS/cm)	Min	113.0	111.0			132.0		151.0	
	Max	192.0	167.0			197.0		200.0	
	Mean	153.1	140.6			165.3		175.9	
Dissolved Oxygen (mg/L)	Min	10.3	10.3			10.5		9.3	
	Max	12.1	11.2			11.3		10.6	
	Mean	11.5	10.8			10.9		10.1	
Dissolved Oxygen (% Saturation)	Min	90.8	90.8			94.1		83.9	
	Max	100.3	95.5			97.6		91.7	
	Mean	98.3	93.6			96.0		89.0	
pH	Min	7.5	7.5			7.6		7.4	
	Max	7.7	7.7			7.7		7.7	
	Mean	7.6	7.6			7.7		7.6	
Turbidity (NTU)	Min	10.4	14.8			21.1		23.1	
	Max	388.0	263.0			126.0		108.0	
	Mean	42.6	81.8			57.0		53.6	

*Station operated seasonally



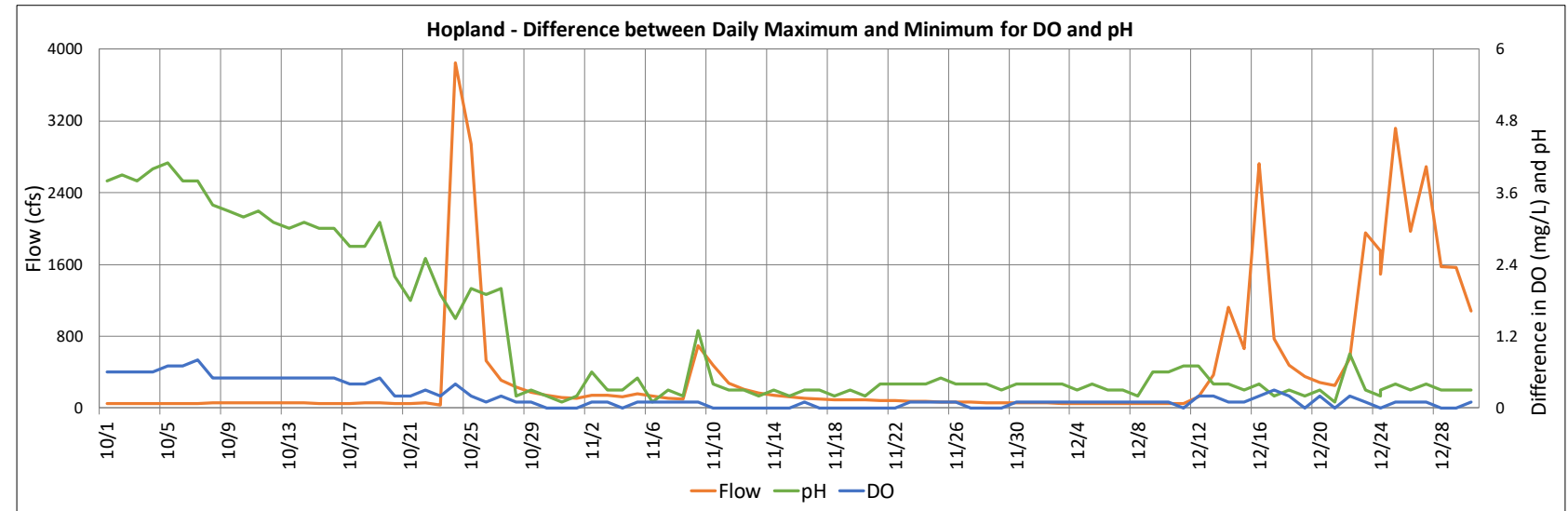
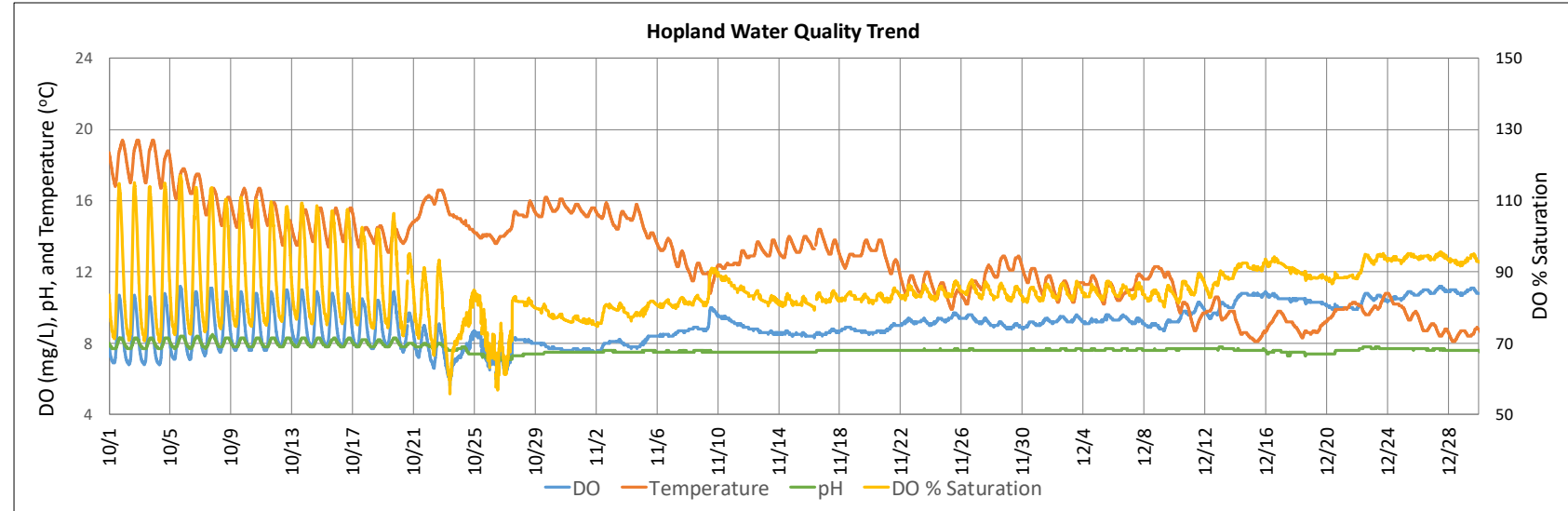
Russian River Water Quality (October 1 - December 30, 2021)

Calpella (East Fork Russian River)



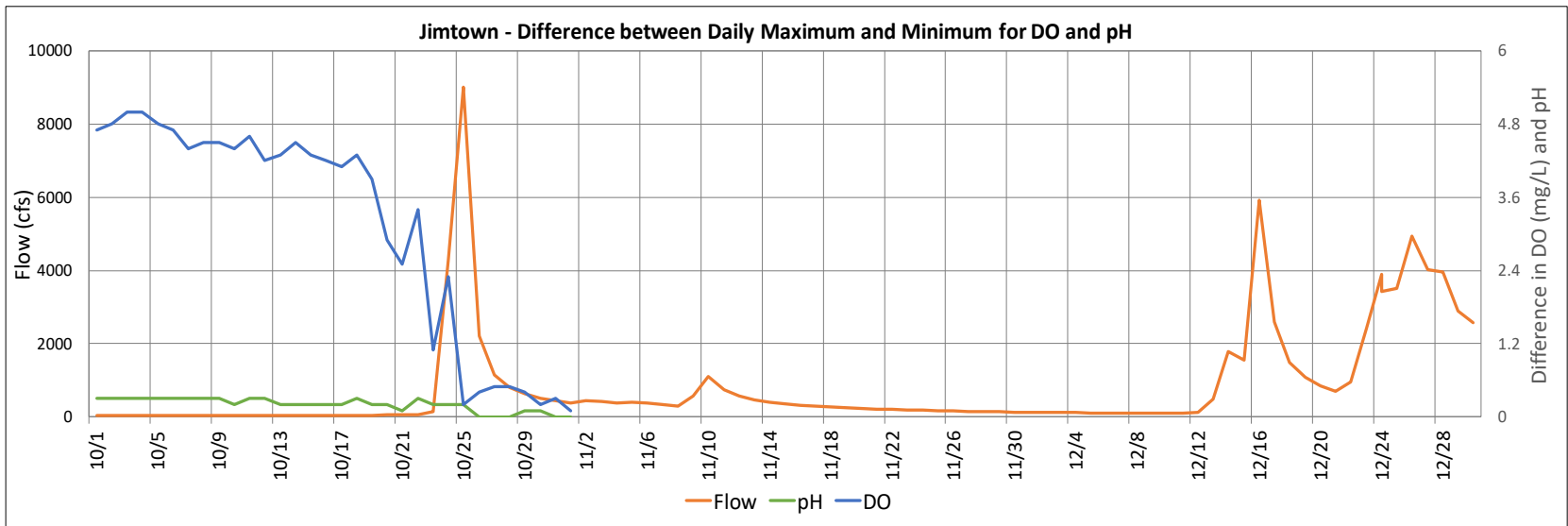
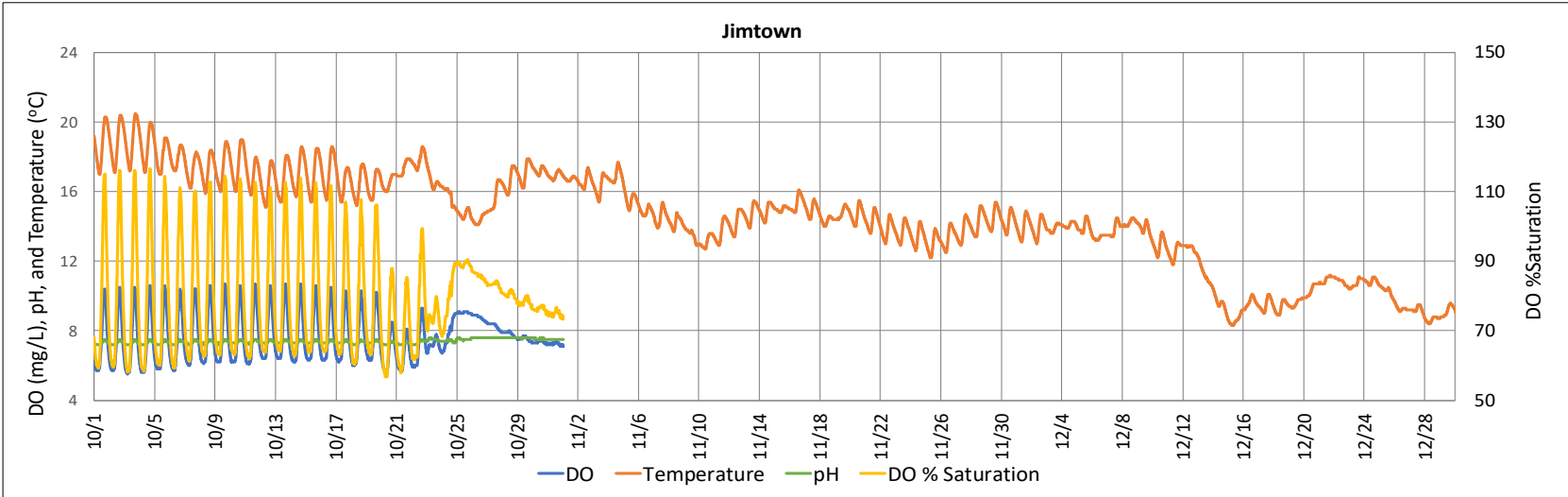
Russian River Water Quality (October 1 - December 30, 2021)

Hopland



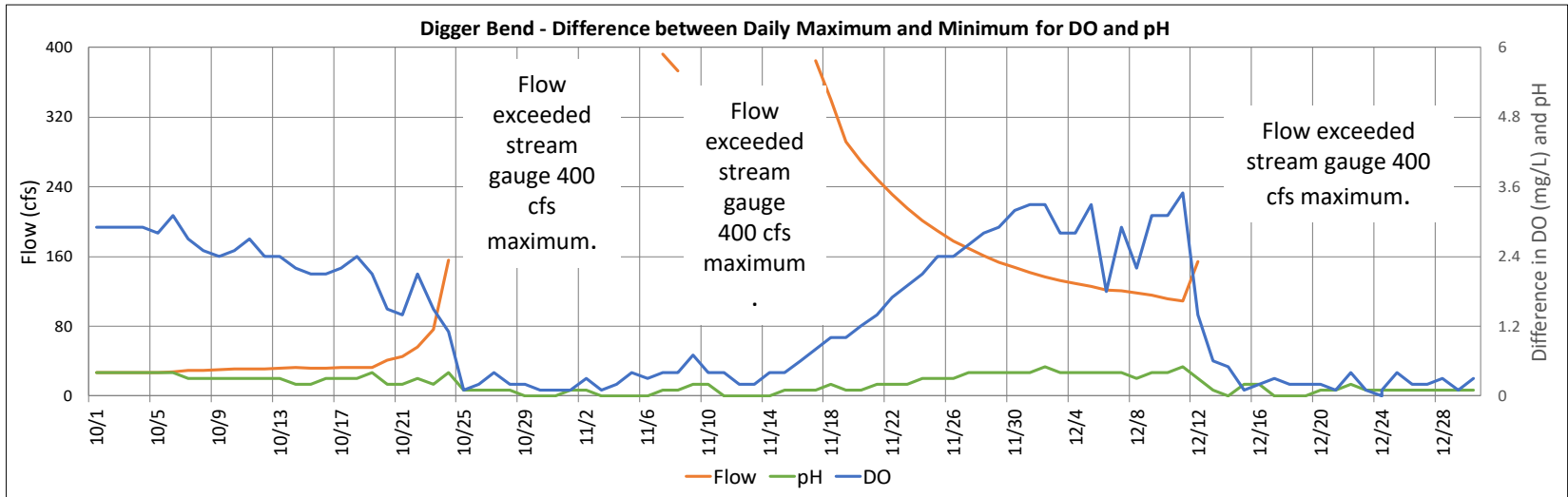
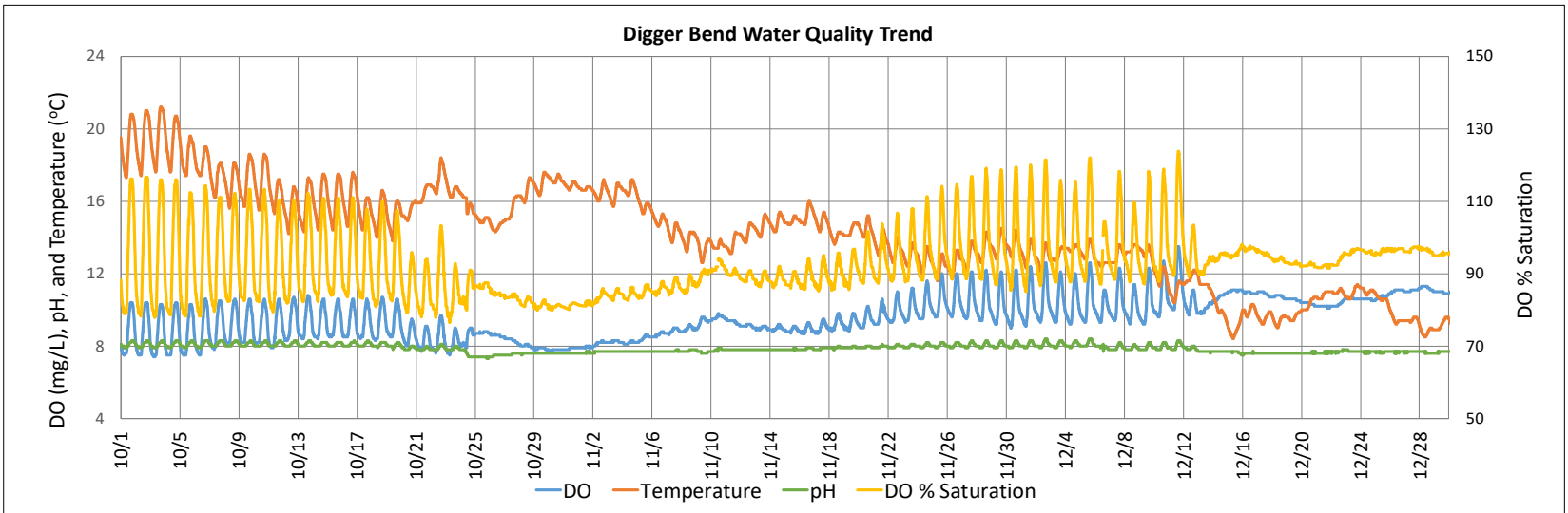
Russian River Water Quality (October 1 - December 30, 2021)

Jimtown



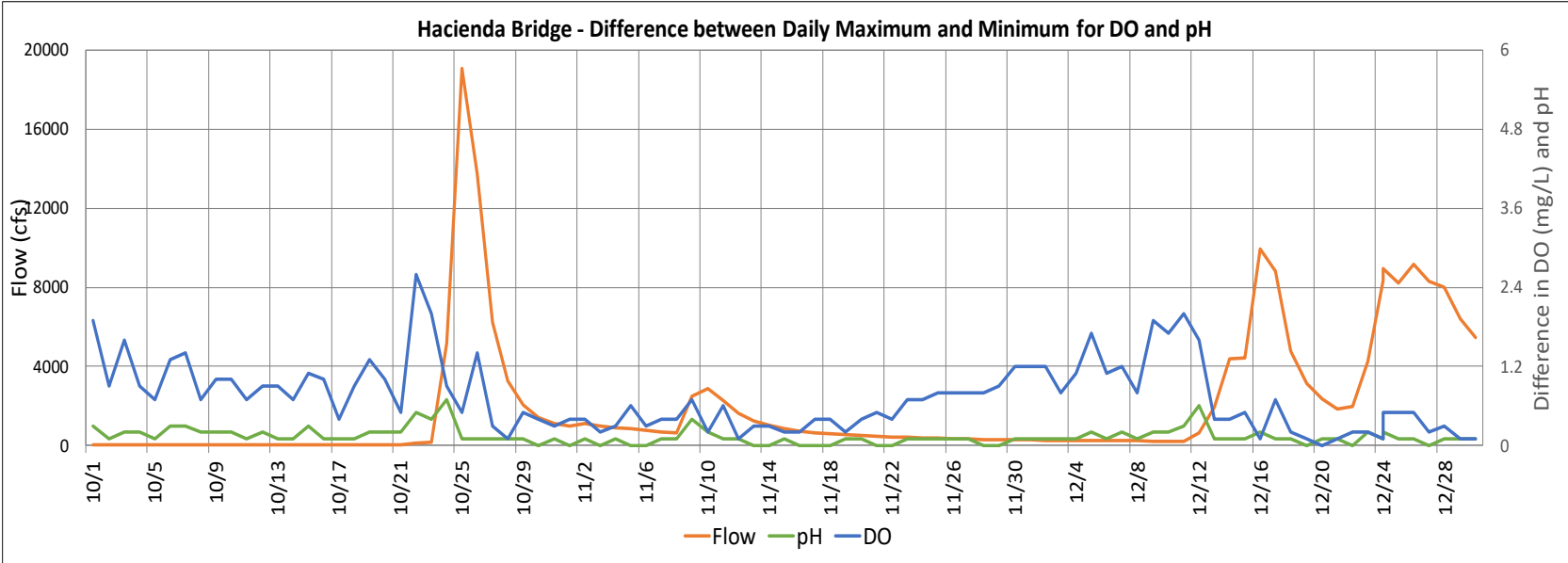
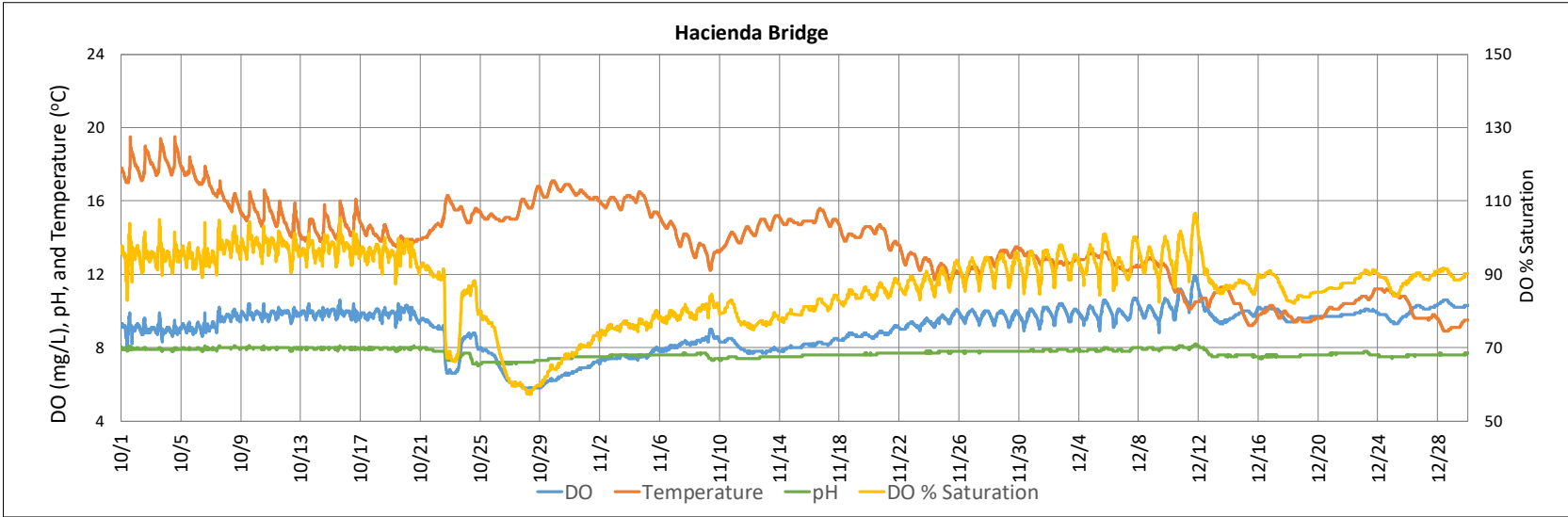
Russian River Water Quality (October 1 - December 30, 2021)

Digger Bend



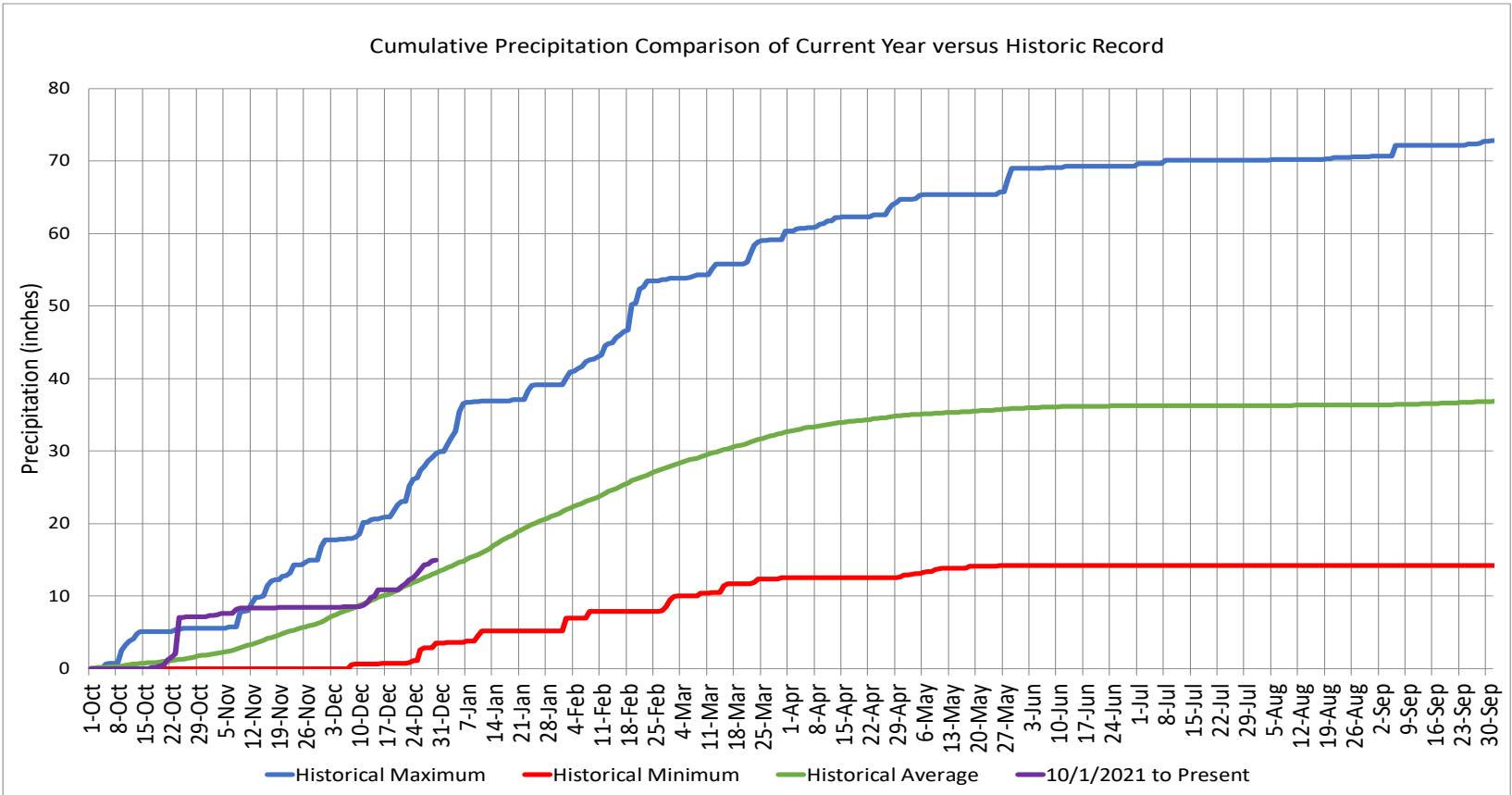
Russian River Water Quality (October 1 - December 30, 2021)

Hacienda Bridge



Precipitation

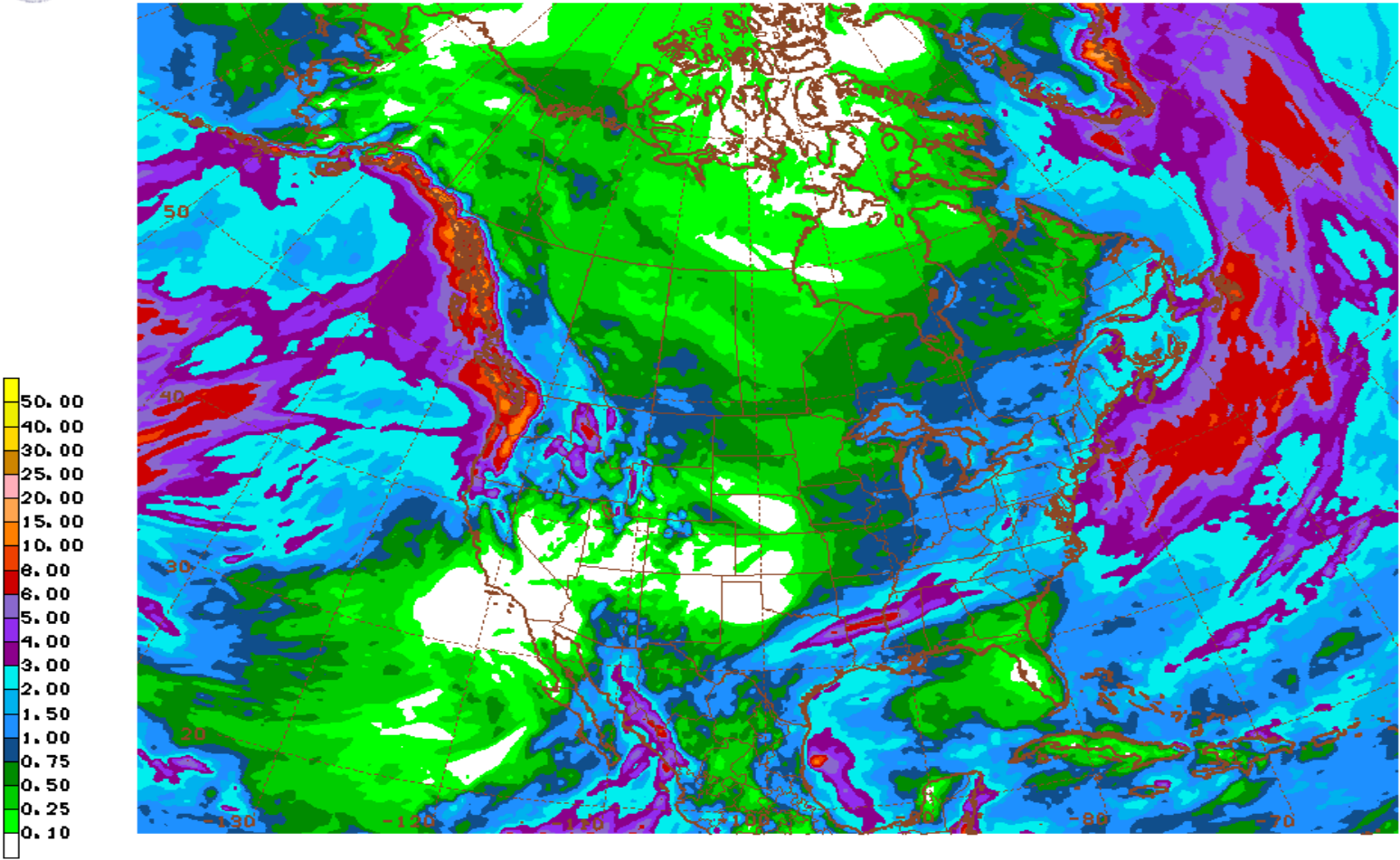
Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2021 - Dec 30, 2021	14.94
Last 7 Days*	2.64



Global Forecast System Model 16-day Cumulative Precipitation Forecast



GFS 01/03/22 12UTC 384HR FCST VALID WED 01/19/22 12UTC NOAA/NWS/NCEP



GFS WED 220119/1200V384 384HR ACCUMULATED PRECIP (IN)

Date Range	Forecasted Cumulative (inches)
Jan 3 - Jan 19, 2022	0.9