



State Water Resources Control Board
 Temporary Urgency Change Order (2/4/2021)
 Russian River Hydrologic Report
 March 26, 2021 - April 1, 2021

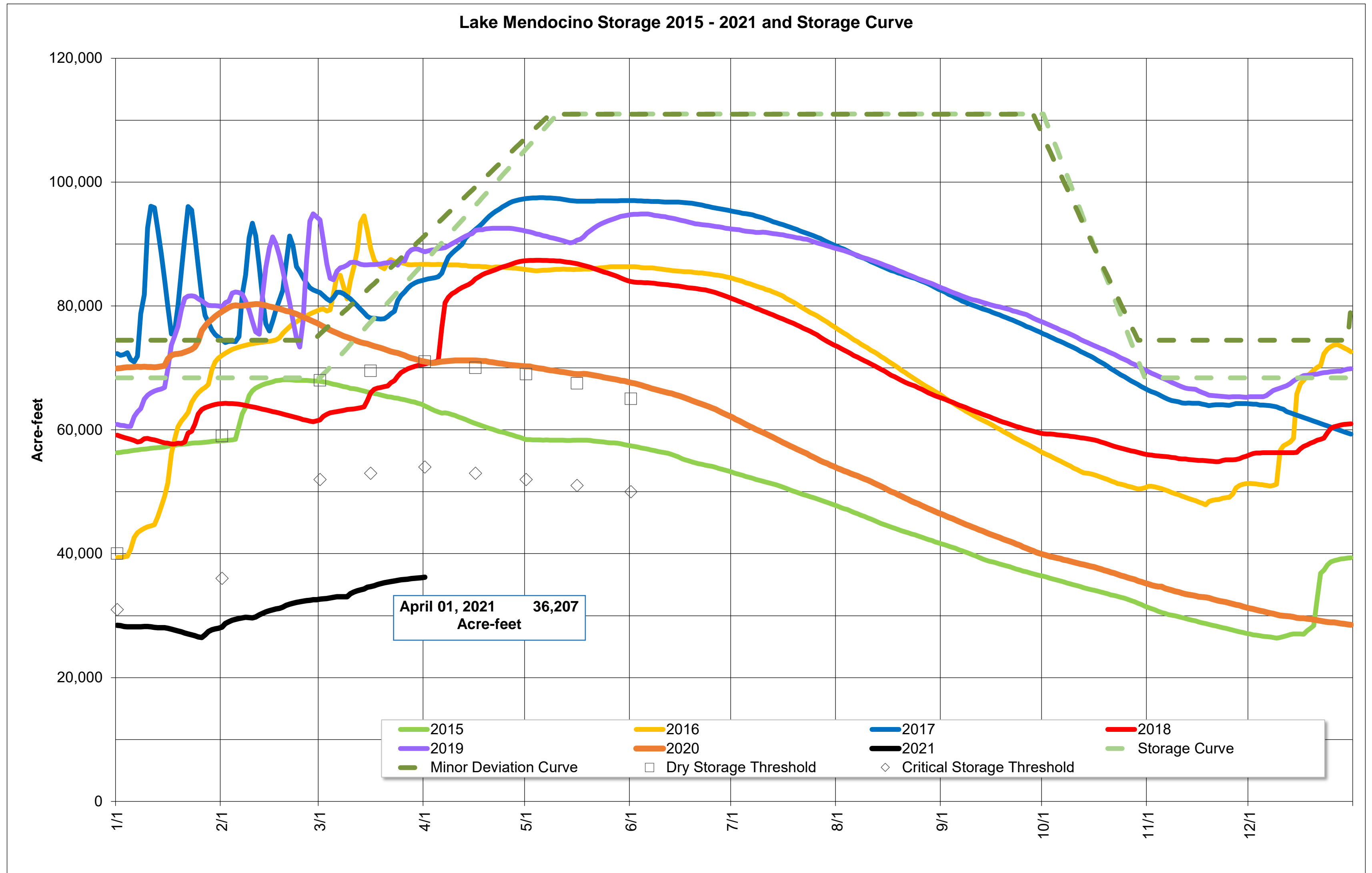
Prepared as a requirement of the Order approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A (Applications 12919A).

Instream Flow Requirements as of April 1, 2021

Basis	Reach	Instantaneous (cfs)
Modified Per Order: Critical Condition	Upper Russian River	25
D-1610: Dry Condition	Dry Creek	25
D-1610: Dry Condition	Lower Russian River	85

Upper Russian River based on criteria as established in the Order issued 2/4/2021 and amended 2/11/2021.

Lake Mendocino

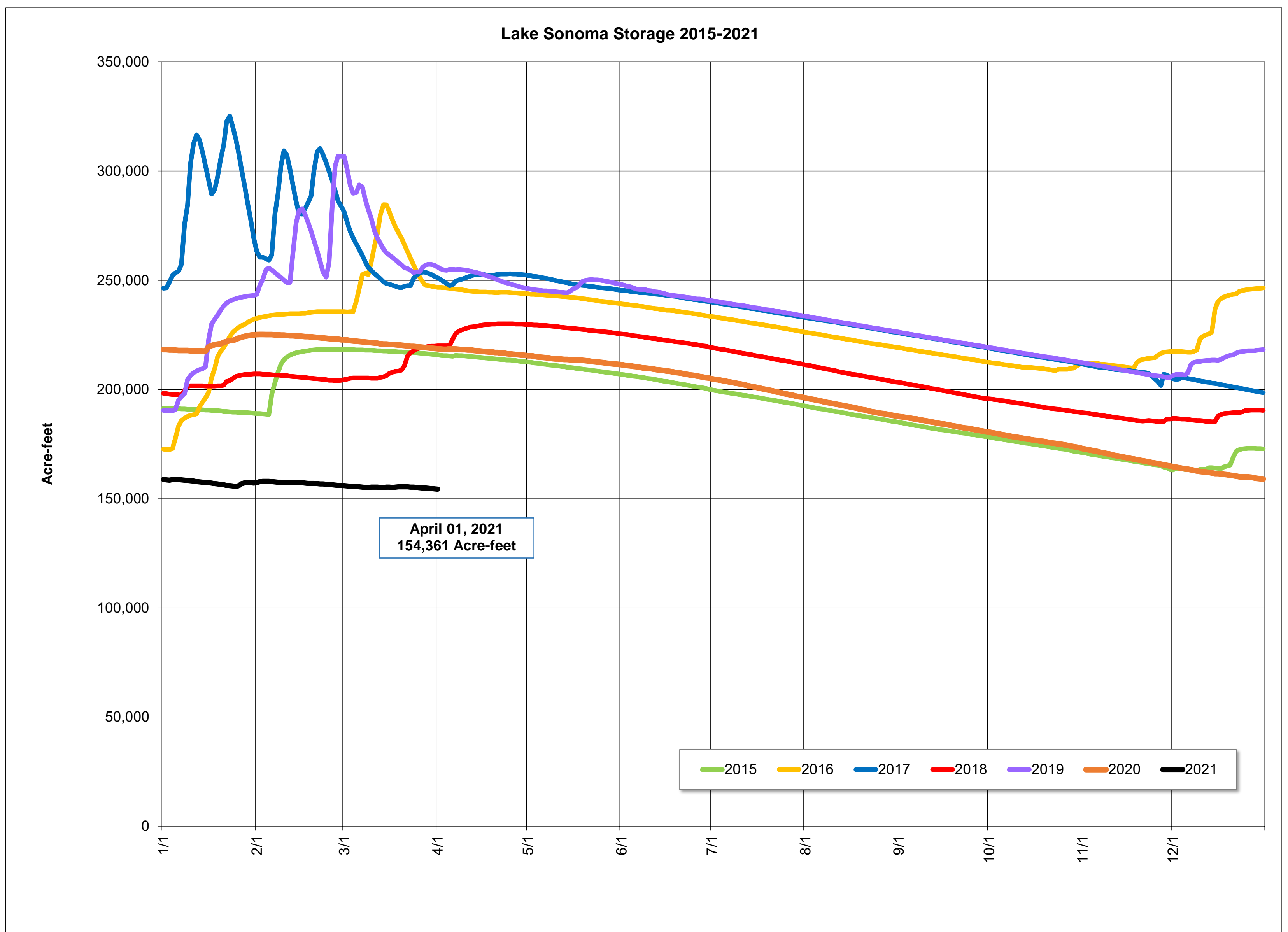


Storage (acre-feet)	April 1, 2021	36,207	
Change in Storage (acre-feet)	Last 30 days	3,494	116
	Last 7 days	426	61
Daily Inflow (cfs)	Last 7 days	Min	54
		Max	78
		Mean	67
Release (cfs)	Last 7 days	Min	21
		Max	27
		Mean	26

Lake Sonoma



Nathan Baskett, March 3, 2021



Storage (acre-feet)	April 1, 2021	154,361	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
		-1,514	-50
	Last 7 days	-795	-114
Daily Inflow (cfs)	Last 7 days	Min	14
		Max	33
		Mean	26
Release (cfs)	Last 7 days	Min	75
		Max	75
		Mean	75

Potter Valley Project

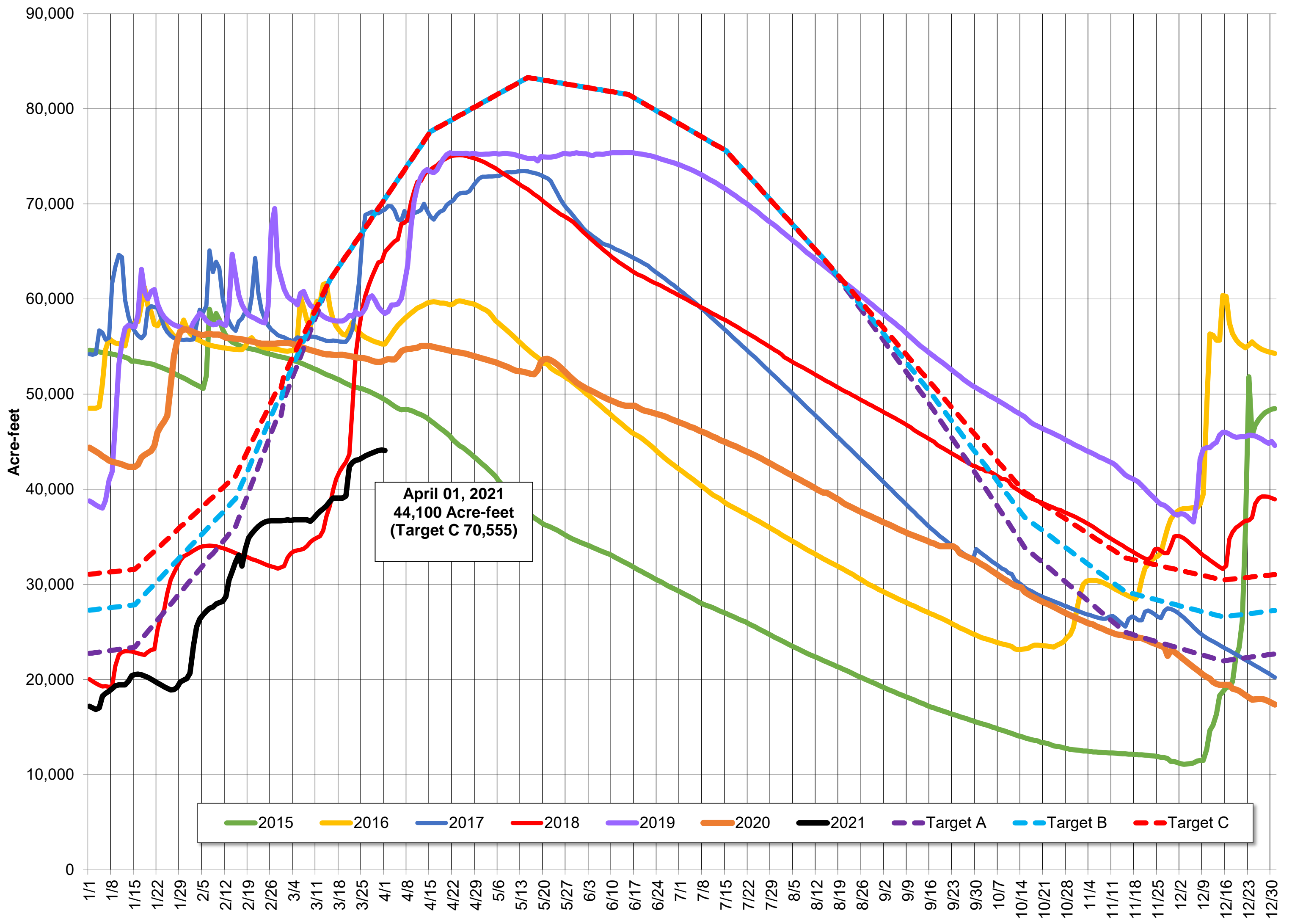
PVP Diversion (cfs)	April 1, 2021	57
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Lake Pillsbury

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2020 - April 1, 2021	74,361	409
	Last 7 days	4,085	584

*Inflow calculation based on criteria established in D1610

Lake Pillsbury Storage 2015-2021 and Target Storage Scenarios

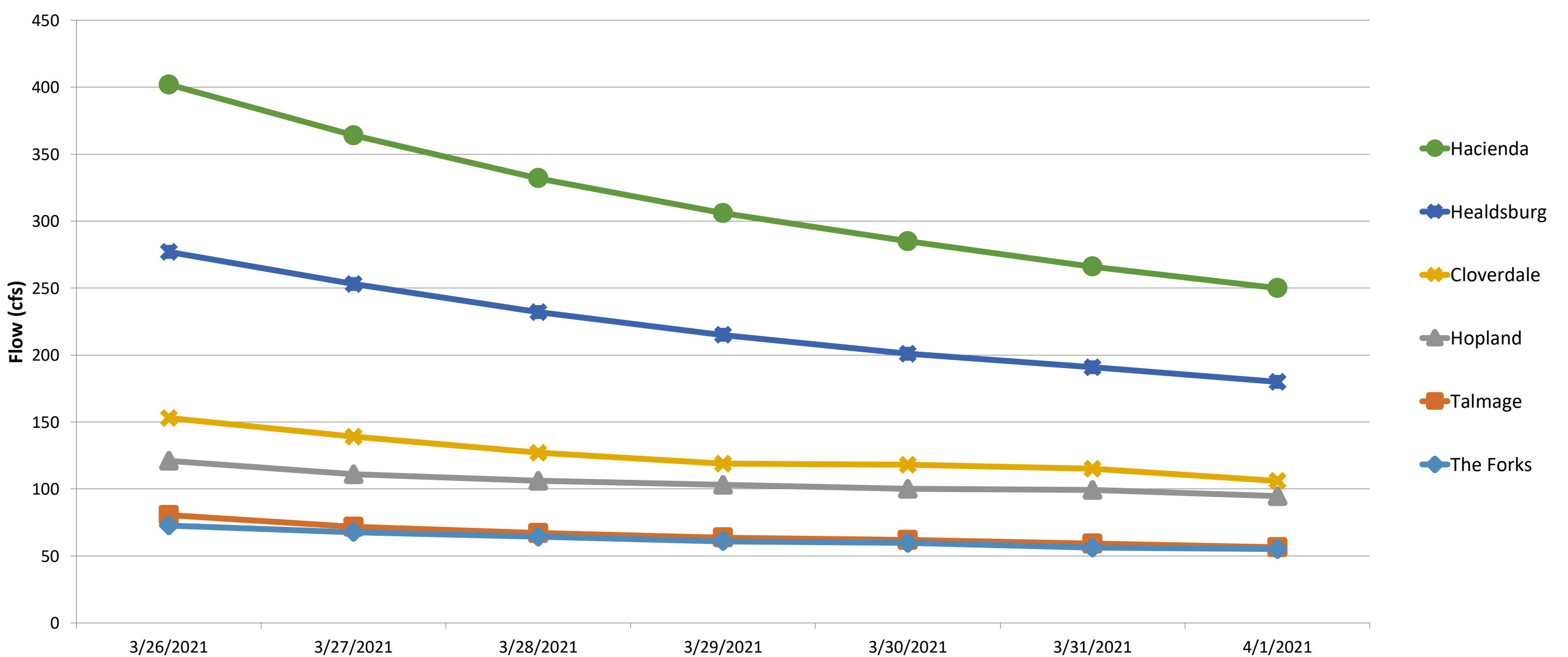


Russian River Flows (March 26 - April 1, 2021)

Gage	24-hr Average Flow (cfs)						
	Mar 26, 2021	Mar 27, 2021	Mar 28, 2021	Mar 29, 2021	Mar 30, 2021	Mar 31, 2021	Apr 1, 2021
The Forks*	73	68	64	61	60	56	55
Talmage USGS 11462080	81	72	67	64	62	59	57
Hopland USGS 11462500	121	111	106	103	100	99	95
Cloverdale USGS 11463000	153	139	127	119	118	115	106
Healdsburg USGS 11464000	277	253	232	215	201	191	180
Hacienda USGS 11467000	402	364	332	306	285	266	250

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

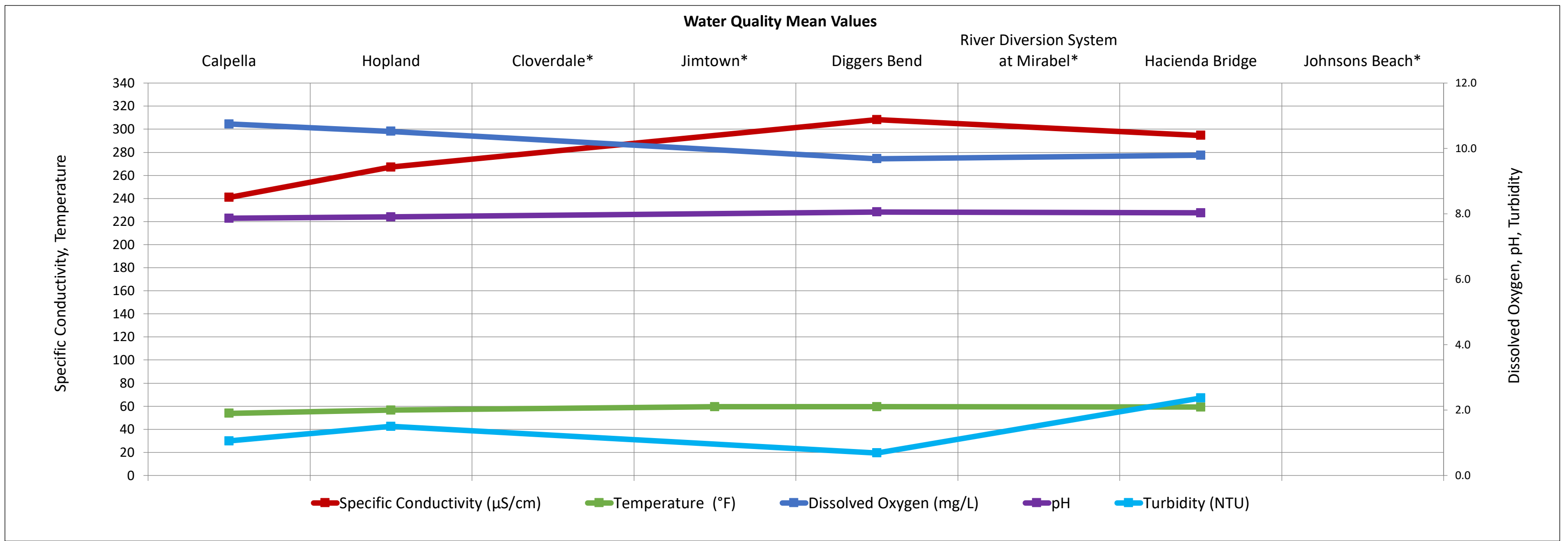
Russian River Flows



Russian River Water Quality (March 26 - April 1, 2021)

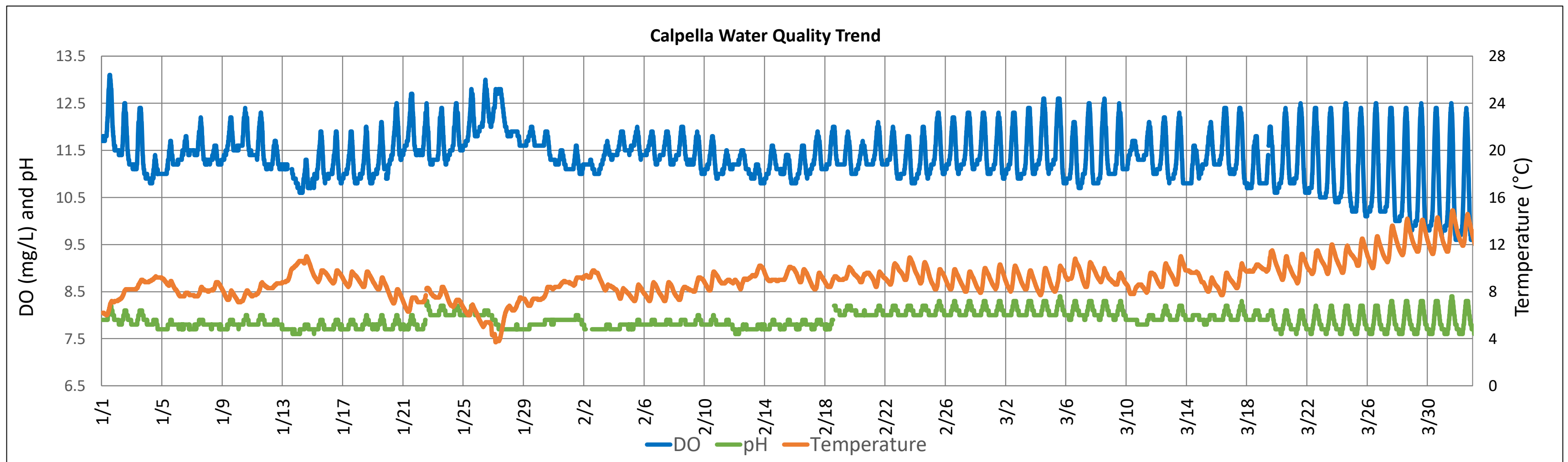
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463200	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	50.0	52.5		54.7	55.0		55.4	
	Max	58.8	61.2		64.8	65.3		63.3	
	Mean	53.8	56.7		59.6	59.6		59.2	
Specific Conductivity (µS/cm)	Min	234	253			293		286	
	Max	244	278			321		299	
	Mean	241	267			308		295	
Dissolved Oxygen (mg/L)	Min	9.6	8.4			8.2		8.3	
	Max	12.5	13.7			11.9		11.1	
	Mean	10.7	10.5			9.7		9.8	
Dissolved Oxygen (% Saturation)	Min	85	76			76		79	
	Max	121	139			126		115	
	Mean	100	100			96		97	
pH	Min	7.6	7.6			7.8		7.8	
	Max	8.4	8.5			8.5		8.3	
	Mean	7.9	7.9			8.1		8.0	
Turbidity (NTU)	Min	0.8	1.0			0.3		1.5	
	Max	2.3	2.6			1.5		4.8	
	Mean	1.1	1.5			0.7		2.4	

*Station operated seasonally

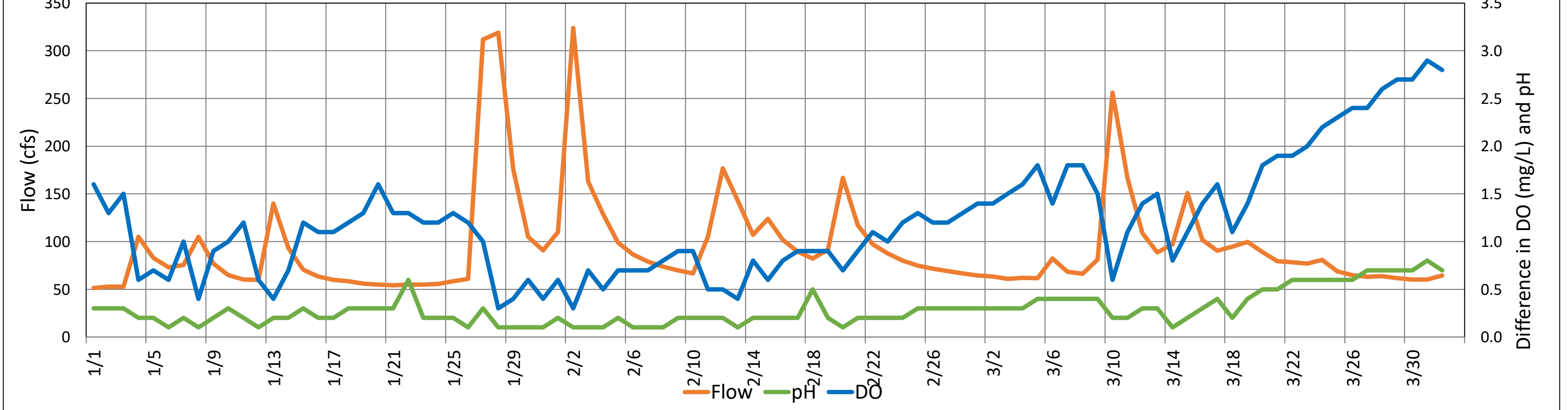


Russian River Water Quality (January 1 - April 1, 2021)

Calpella (East Fork Russian River)

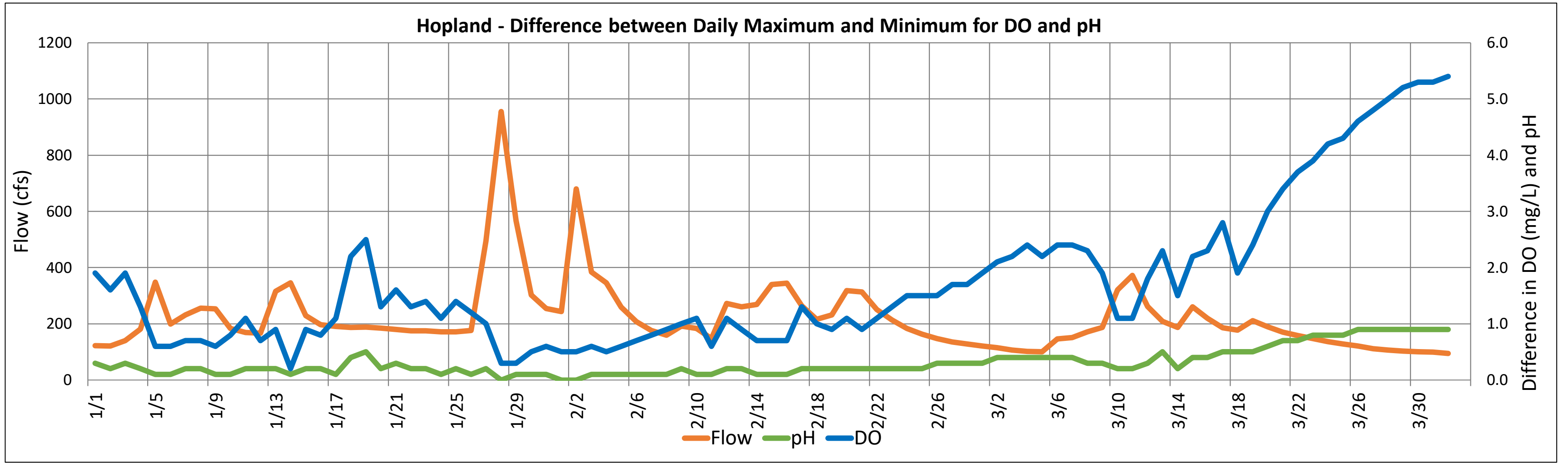
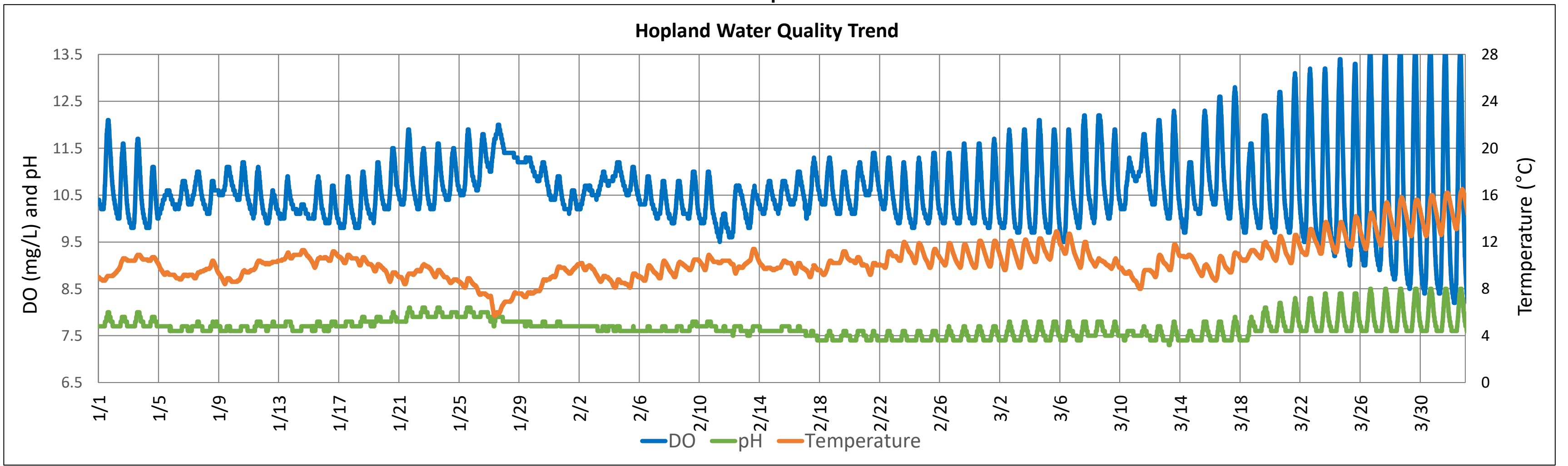


Calpella- Difference between Daily Maximum and Minimum for DO and pH

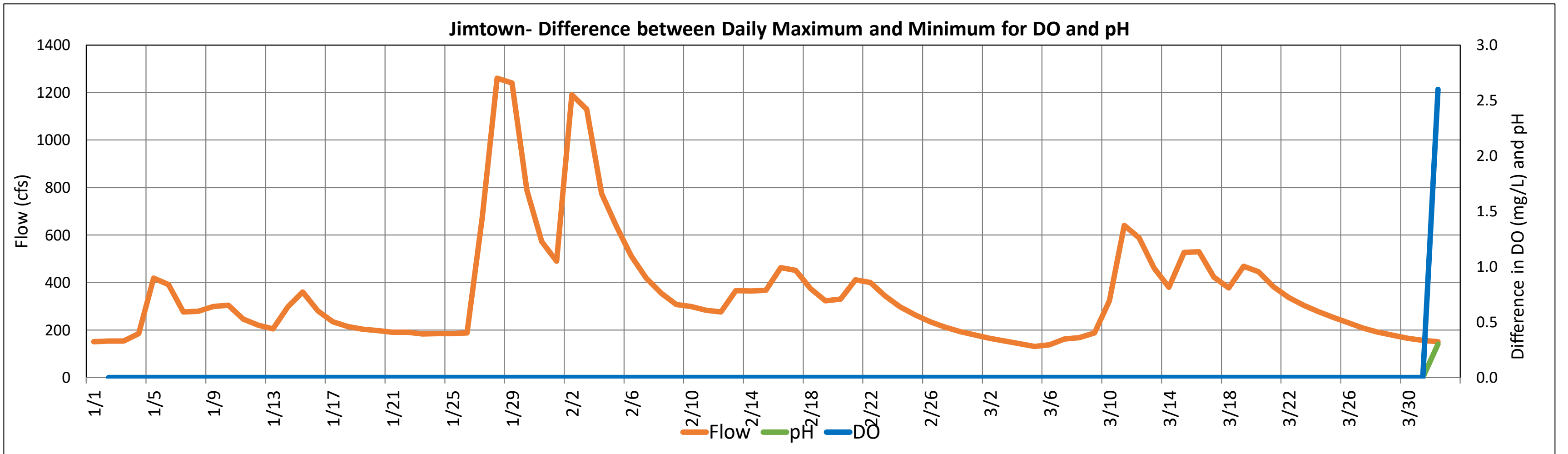
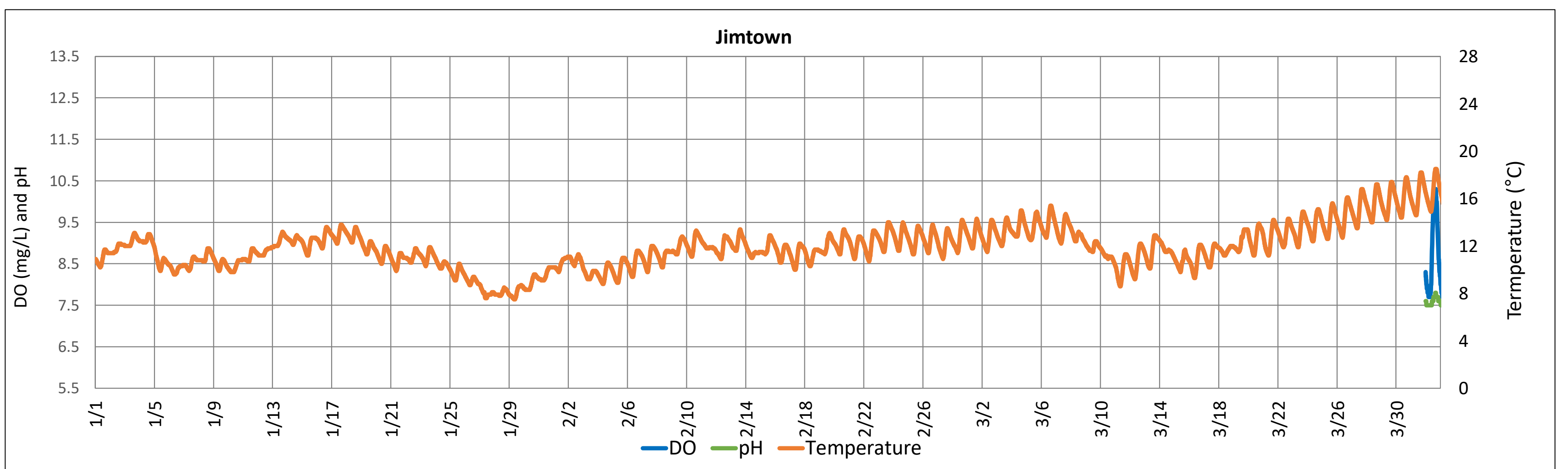


Russian River Water Quality (January 1 - April 1, 2021)

Hopland

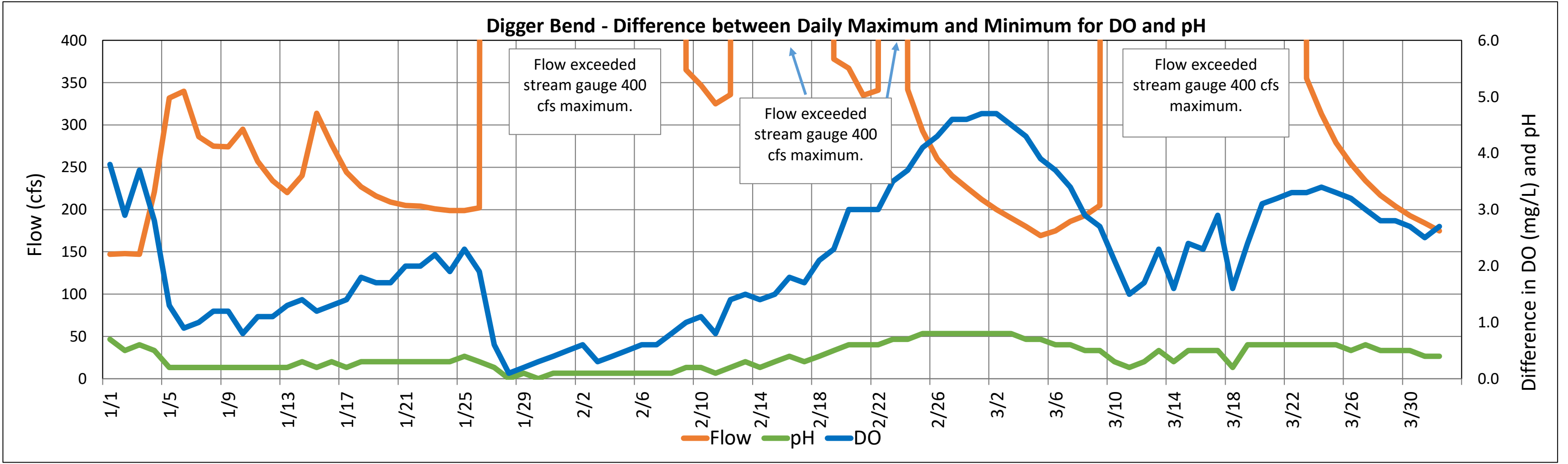
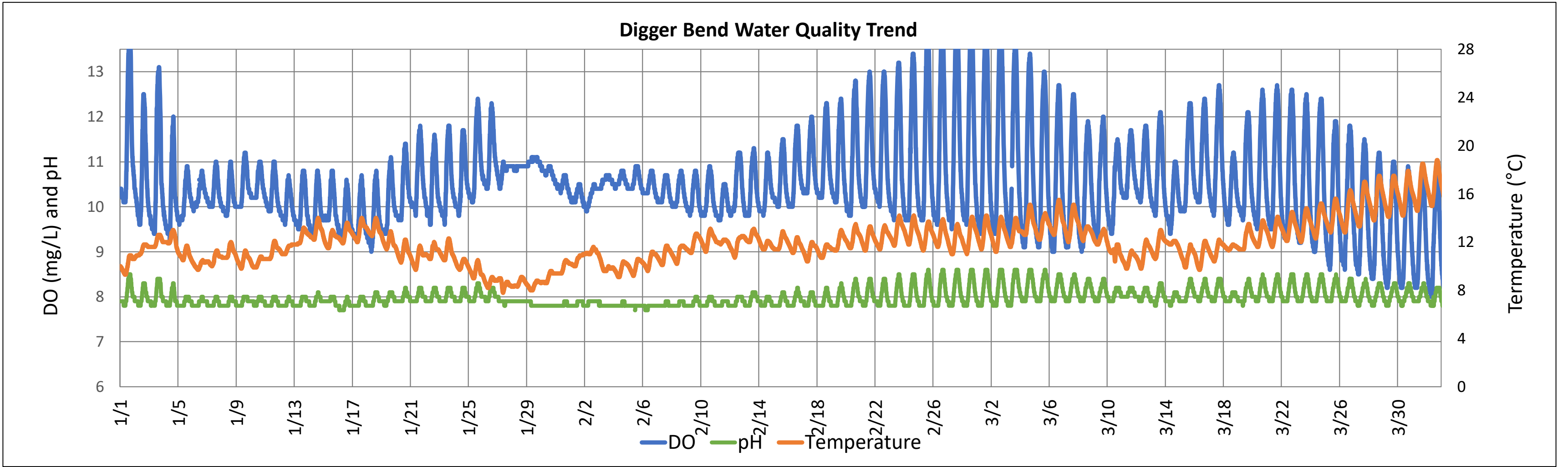


Jimtown Water Quality

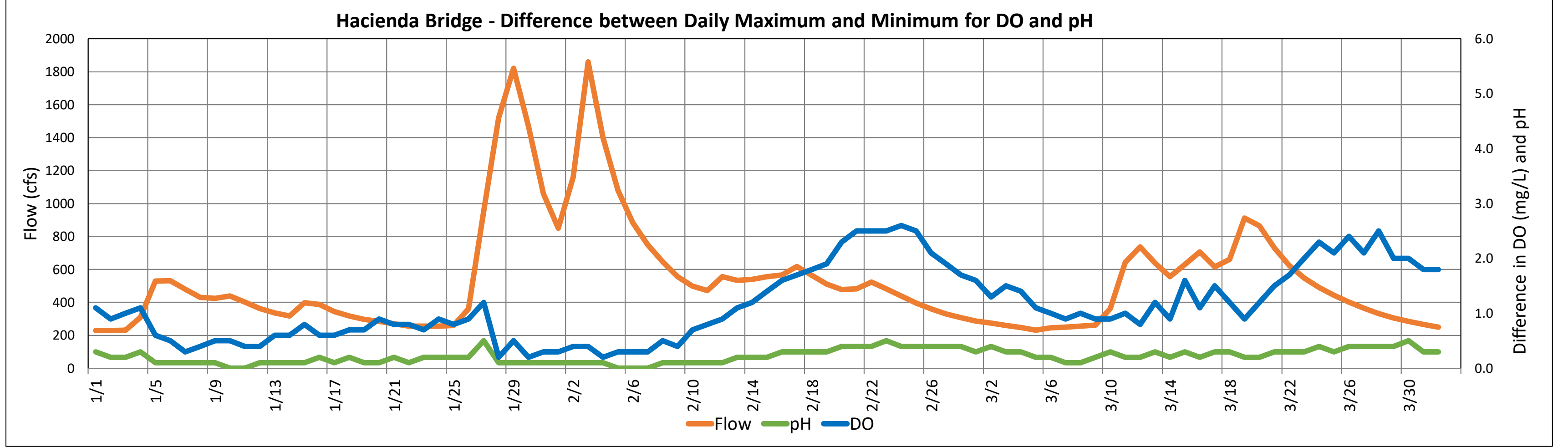
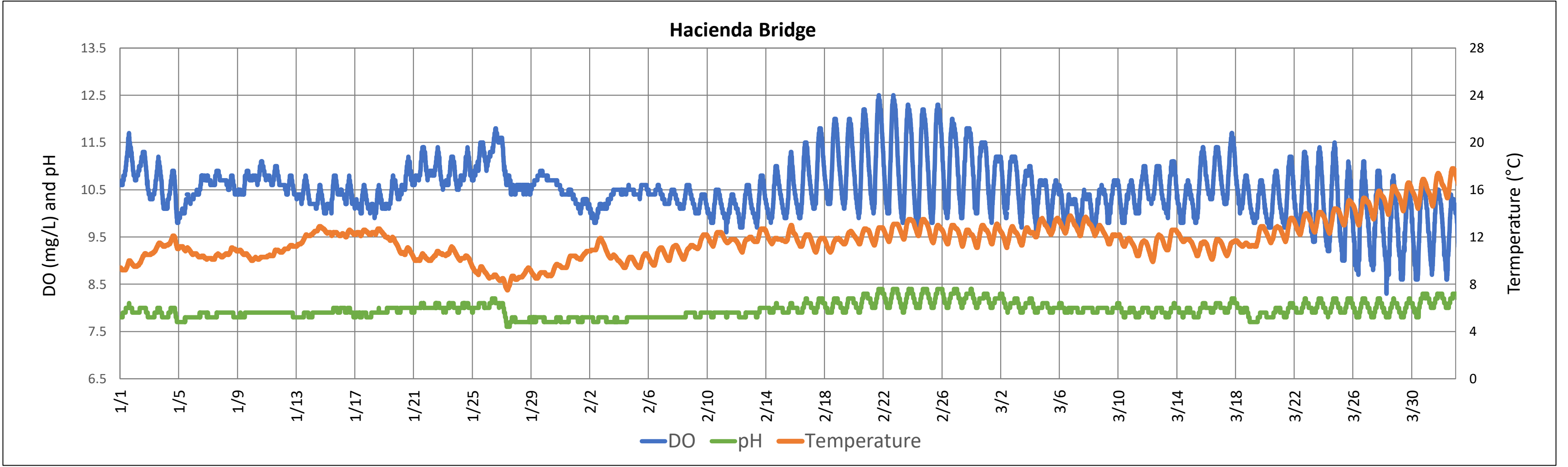


Russian River Water Quality (January 1 - April 1, 2021)

Digger Bend



Hacienda Bridge Water Quality



Russian River Fisheries Monitoring



Report on 4/2/21: Sonoma Water surveyed sites in the upper Russian River and in Dry Creek to collect information on spawning salmonids and their redds. In total 10 redds and no salmonids were observed in the upper reach of the Russian River. In the Alexander Valley reach of the Russian River 2 redds and no adult salmonids were observed. In Dry Creek, 41 adult steelhead, and 3 redds were observed.

The Mirabel dam video monitoring station closed for the season on January 24, 2021, but Sonoma Water continues to review video that was collected earlier in the season. Video has been reviewed through January 19, on the west fish ladder at the Mirabel dam, and through January 24, on the east fish ladder. To date, 565 steelhead, 609 Chinook salmon, and 312 coho, as well as 64 salmonids that could not be identified to species have been observed.

Salmonid Count at Mirabel Fish Ladder

Video camera location	Most recent footage reviewed	Species	Season total
East ladder	1/24/2021	Steelhead	565
West ladder	1/19/2021	Chinook	609
		Coho	312
		Unidentified Salmonid	64

Salmonid Redd and Spawner Survey

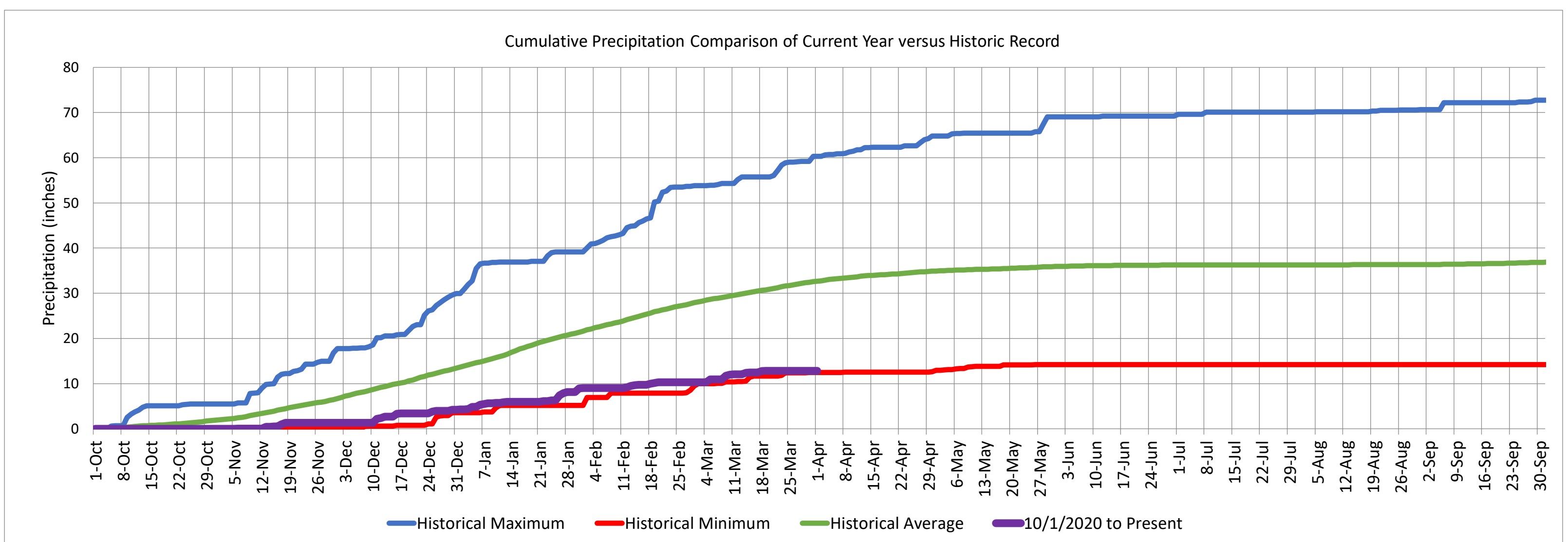
Tributary	Reach	Number of Trips to Date	Earliest Survey Date	Previous Week Survey	Recent Survey Date
Dry Creek	Dry Creek	7	2/7/2021	3/21/2021	3/28/2021
Russian River	Alexander Valley	6	2/14/2021	3/21/2021	3/28/2021
Russian River	Upper Mainstem	6	2/14/2021	3/21/2021	3/28/2021

Tributary	Reach	Previous Week's Survey			Recent Survey Date		
		Fish Species		Redds	Fish Species		Redds
		Steelhead	Salmonid Species		Steelhead	Salmonid Species	
Dry Creek	Dry Creek	32	0	4	41	0	3
Russian River	Alexander Valley	0	0	2	0	0	2
Russian River	Upper Mainstem	0	0	7	0	0	10

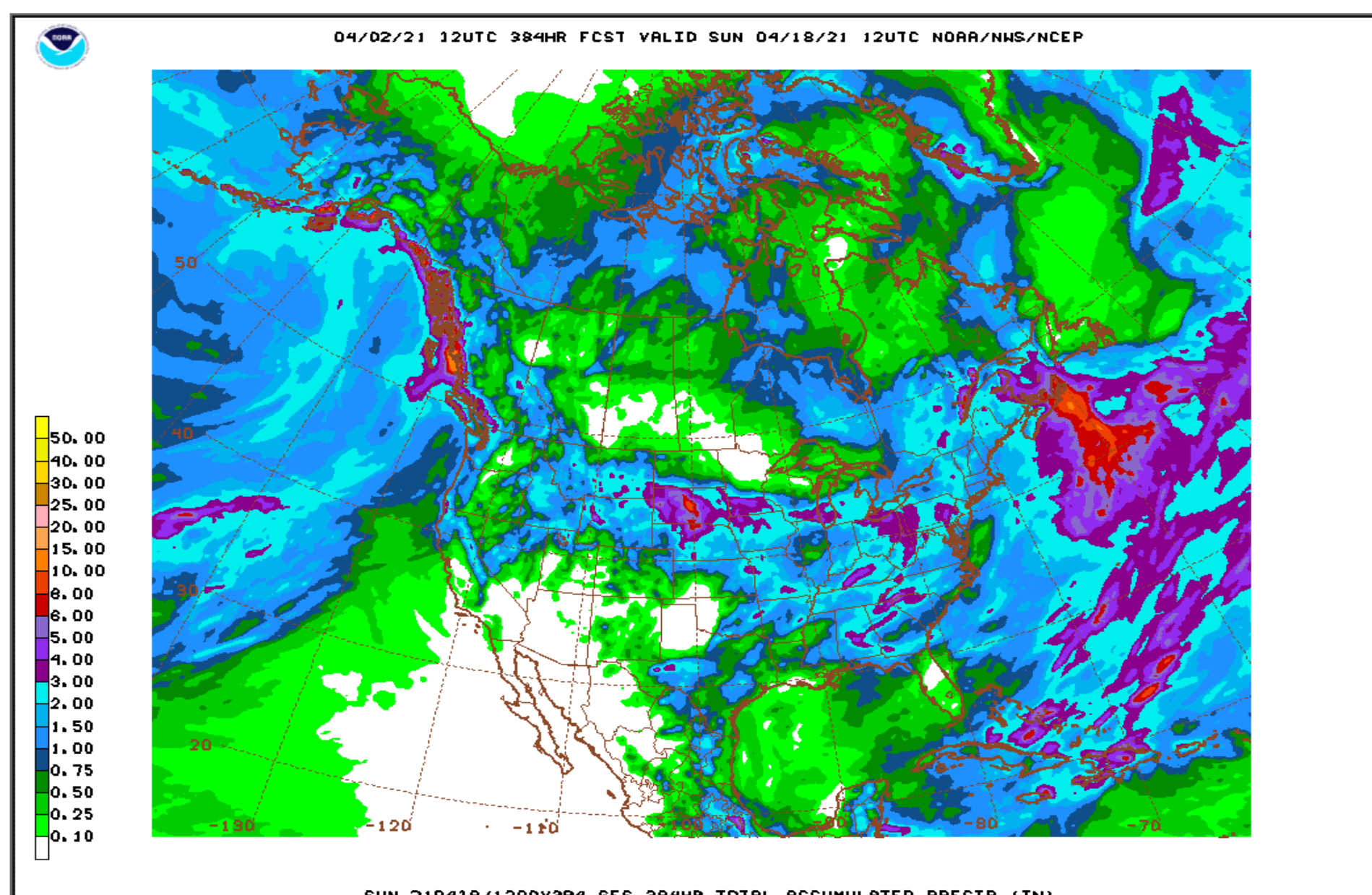
*Redd counts may include old redds that were observed in previous surveys.

Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2020 - Apr 1, 2021	12.83
Last 7 Days*	0.00



Global Forecast System Model 16-day Cumulative Precipitation Forecast



Date Range: Apr 2 - Apr 17, 2021
 Forecasted Cumulative (inches):