



State Water Resources Control Board
 Temporary Urgency Change Order (2/4/2021)
 Russian River Hydrologic Report
 April 2, 2021 - April 8, 2021

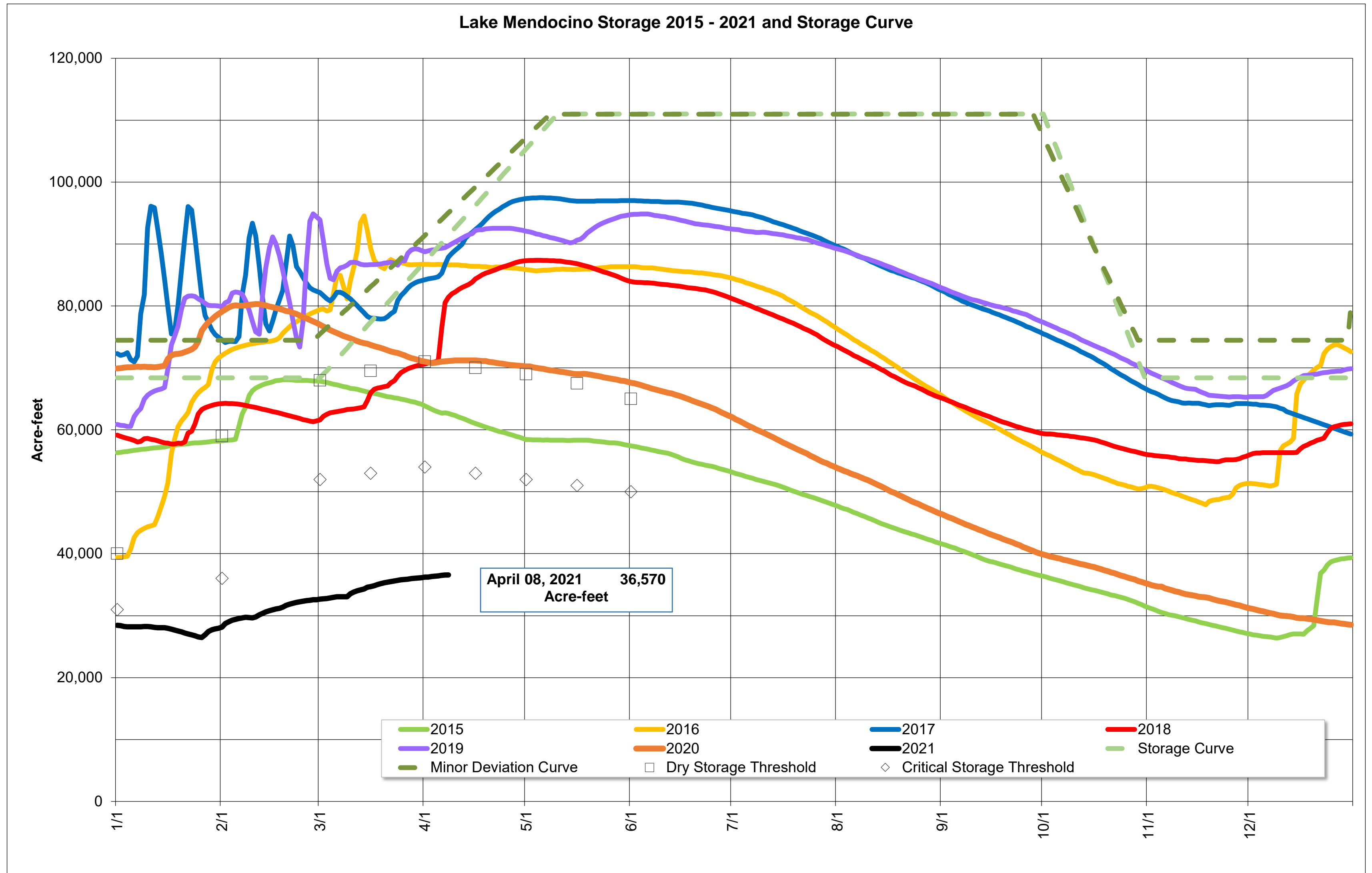
Prepared as a requirement of the Order approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A (Applications 12919A).

Instream Flow Requirements as of April 8, 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

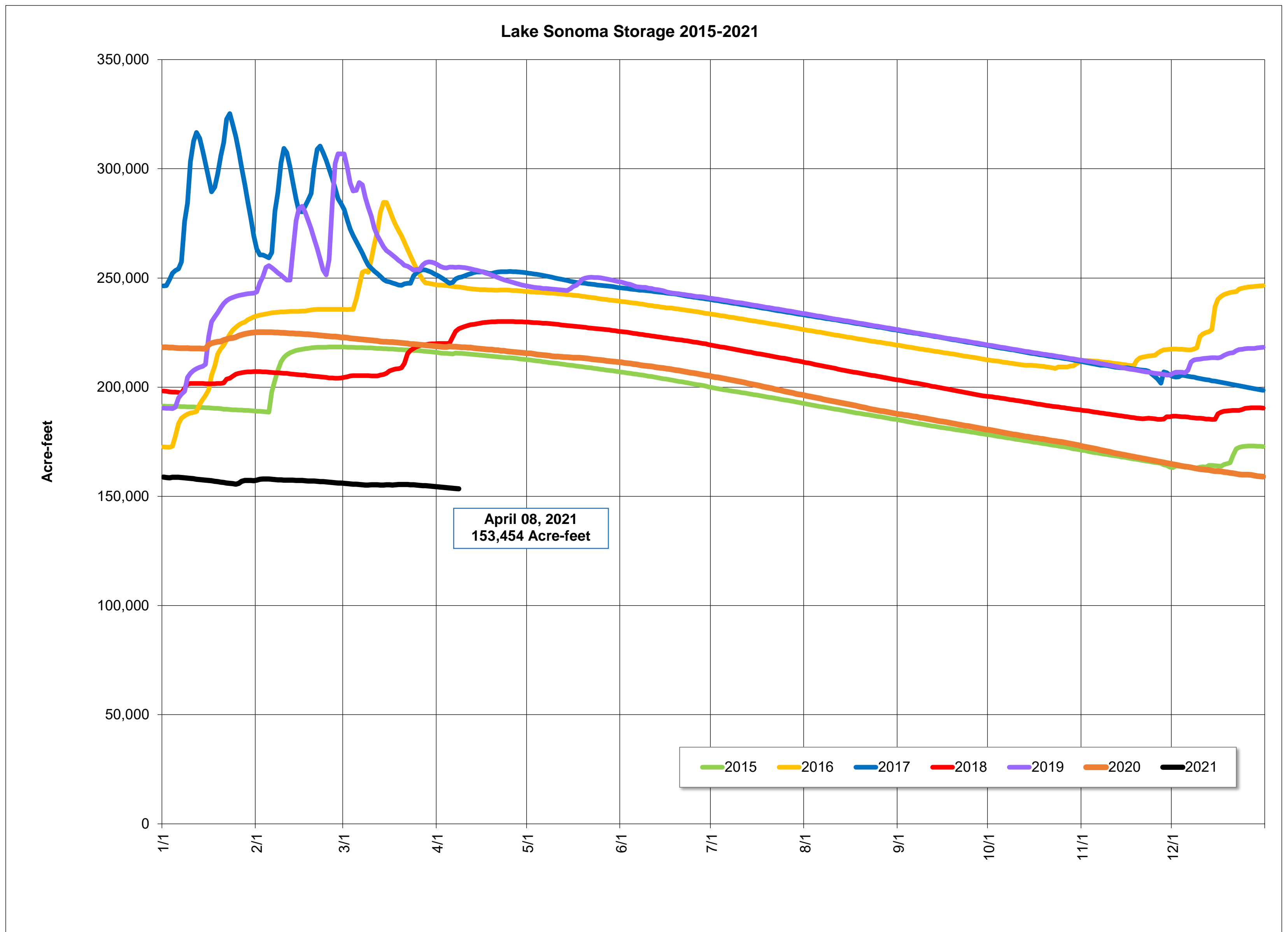


Storage (acre-feet)	April 8, 2021	36,570	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
	Last 7 days	3,508	117
Daily Inflow (cfs)	Last 7 days	Min	48
		Max	68
		Mean	61
Release (cfs)	Last 7 days	Min	27
		Max	28
		Mean	28

Lake Sonoma



Nathan Baskett, March 3, 2021



Storage (acre-feet)	April 8, 2021	153,454	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
		-1,740	-58
	Last 7 days	-907	-130
Daily Inflow (cfs)	Last 7 days	Min	3
		Max	24
		Mean	14
Release (cfs)	Last 7 days	Min	65
		Max	75
		Mean	72

Potter Valley Project

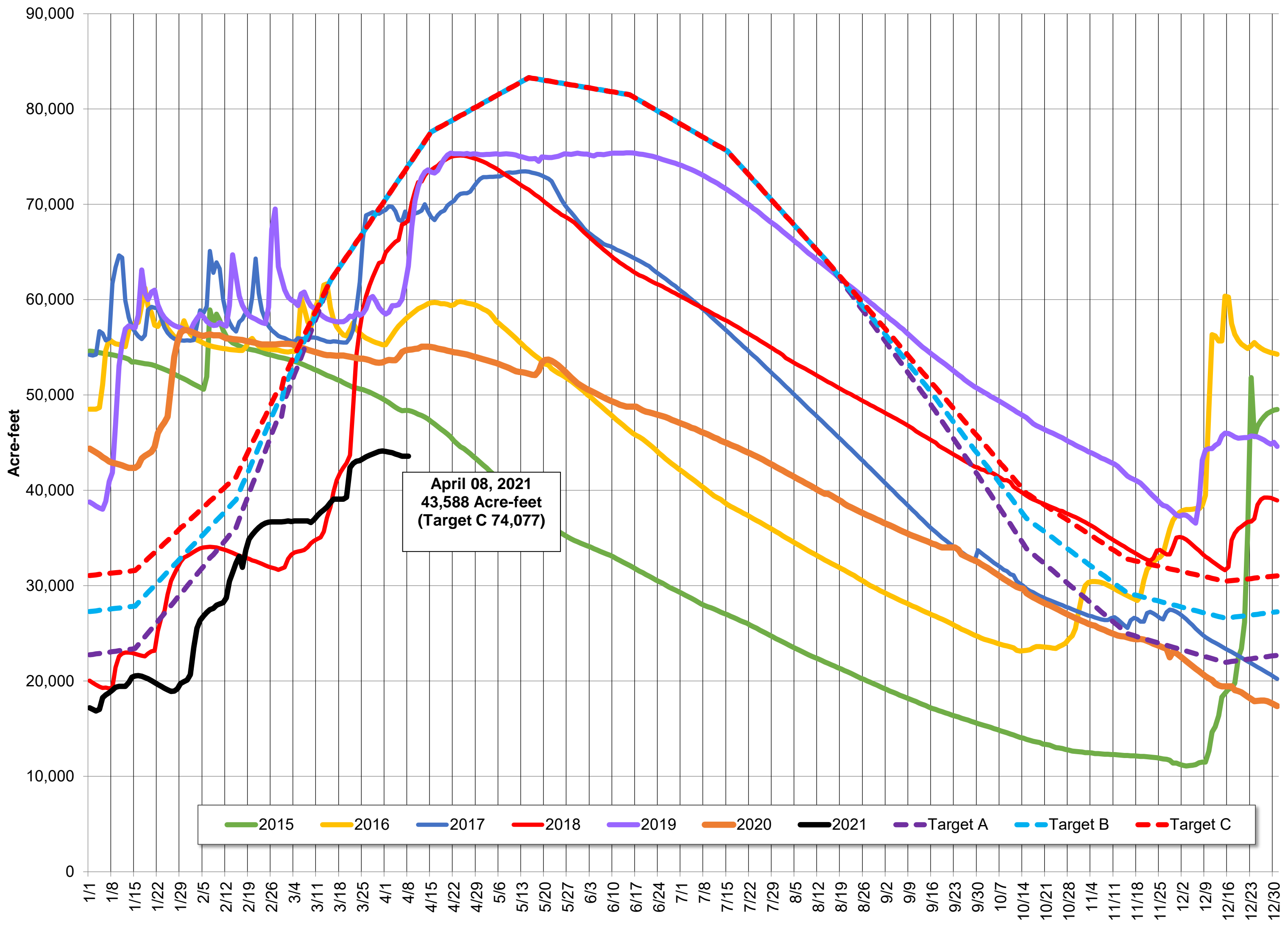
PVP Diversion (cfs)	April 8, 2021	57
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Lake Pillsbury

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2020 - April 8, 2021	77,827	412
	Last 7 days	3,467	495

*Inflow calculation based on criteria established in D1610

Lake Pillsbury Storage 2015-2021 and Target Storage Scenarios

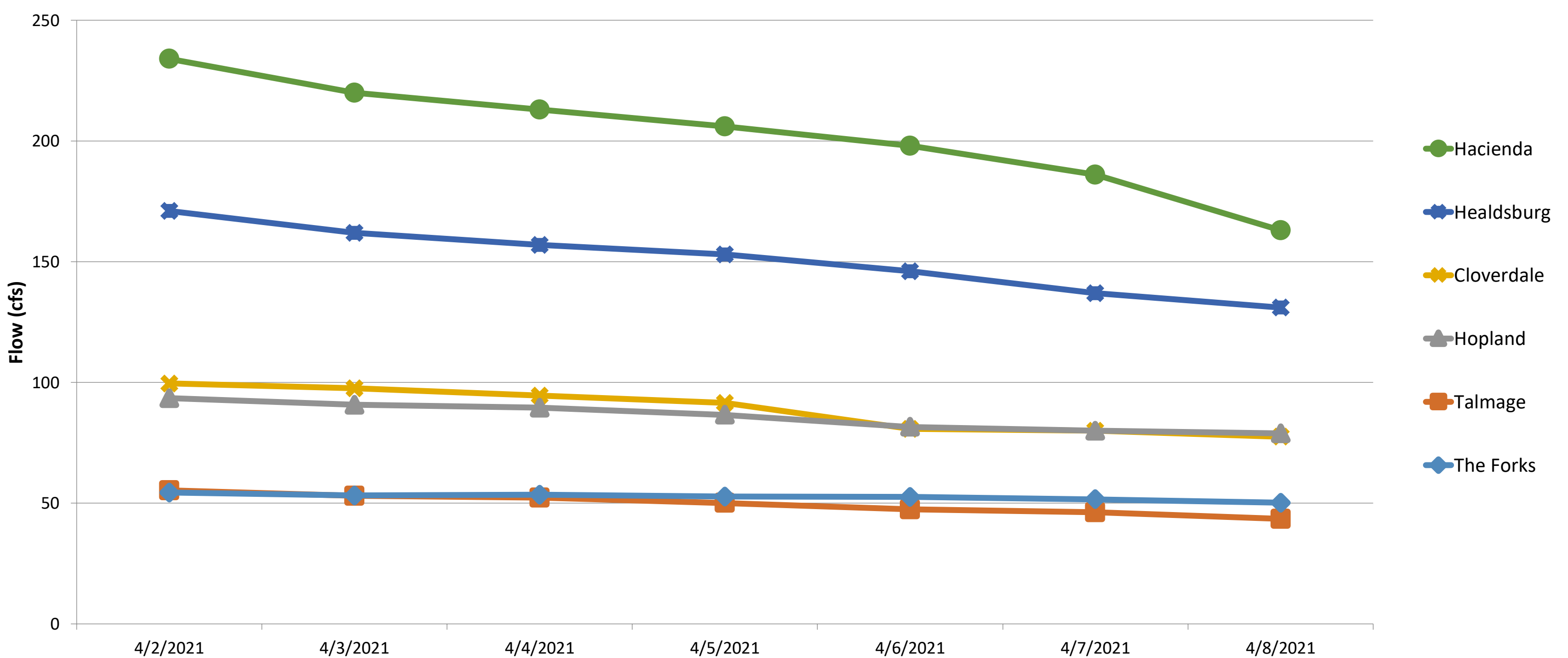


Russian River Flows (April 2 - April 8, 2021)

Gage	24-hr Average Flow (cfs)						
	Apr 2, 2021	Apr 3, 2021	Apr 4, 2021	Apr 5, 2021	Apr 6, 2021	Apr 7, 2021	Apr 8, 2021
The Forks*	54	53	54	53	53	52	50
Talmage USGS 11462080	55	53	52	50	47	46	44
Hopland USGS 11462500	94	91	90	87	82	80	79
Cloverdale USGS 11463000	100	98	95	92	81	80	78
Healdsburg USGS 11464000	171	162	157	153	146	137	131
Hacienda USGS 11467000	234	220	213	206	198	186	163

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

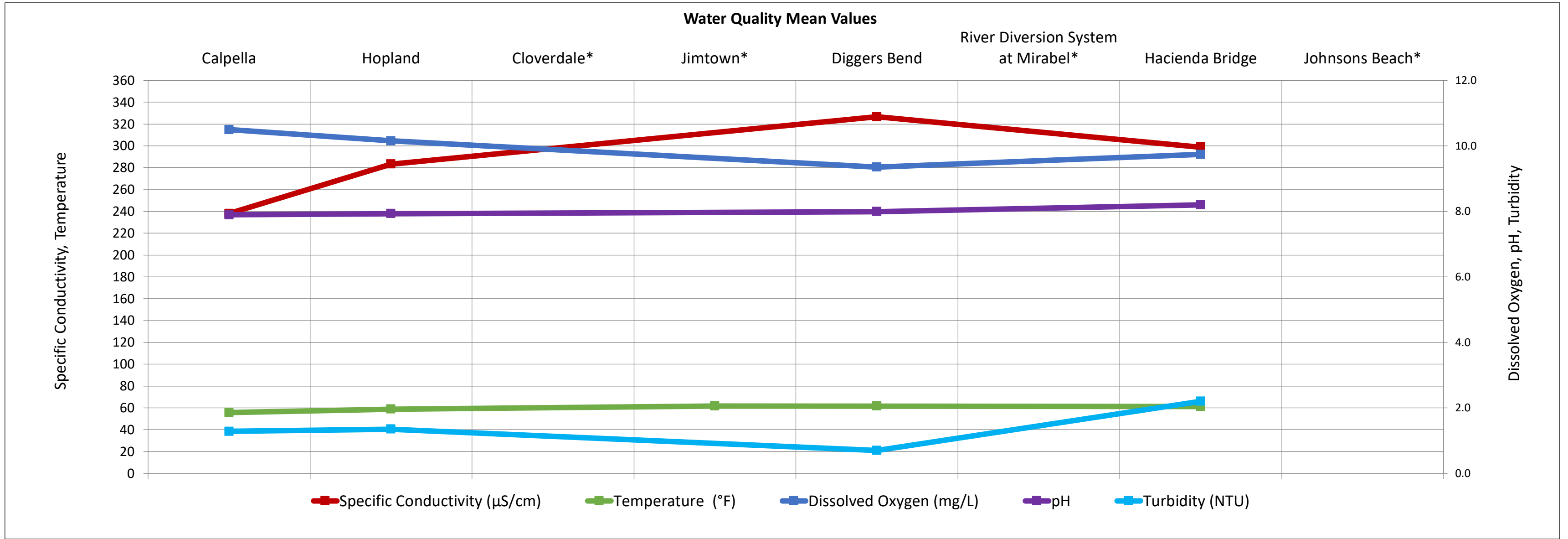
Russian River Flows



Russian River Water Quality (April 2 - April 8, 2021)

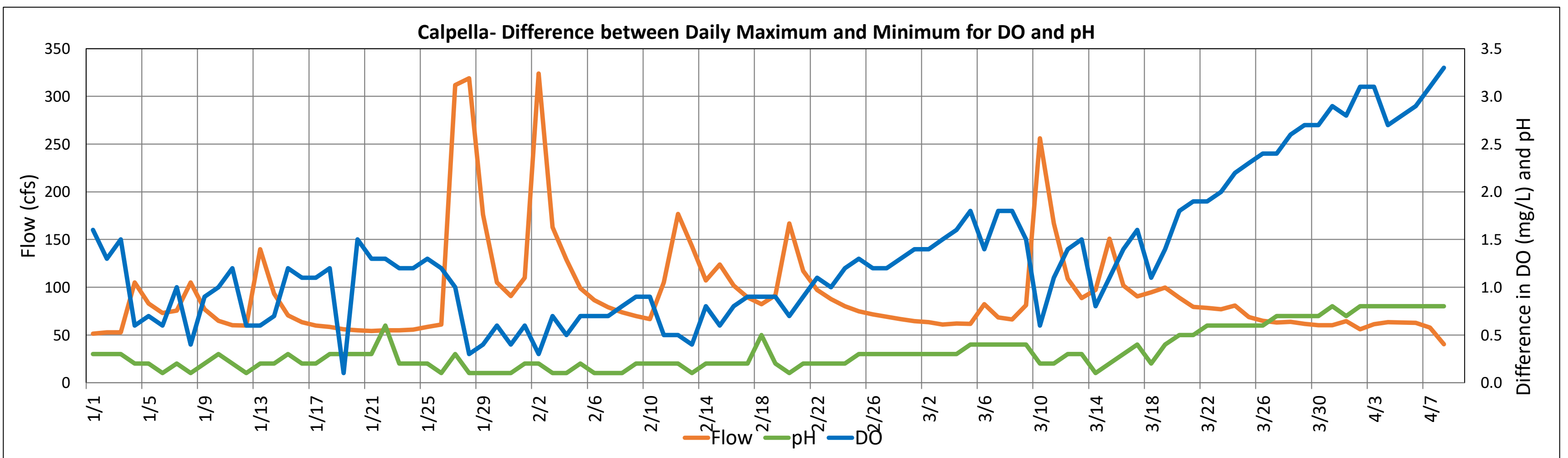
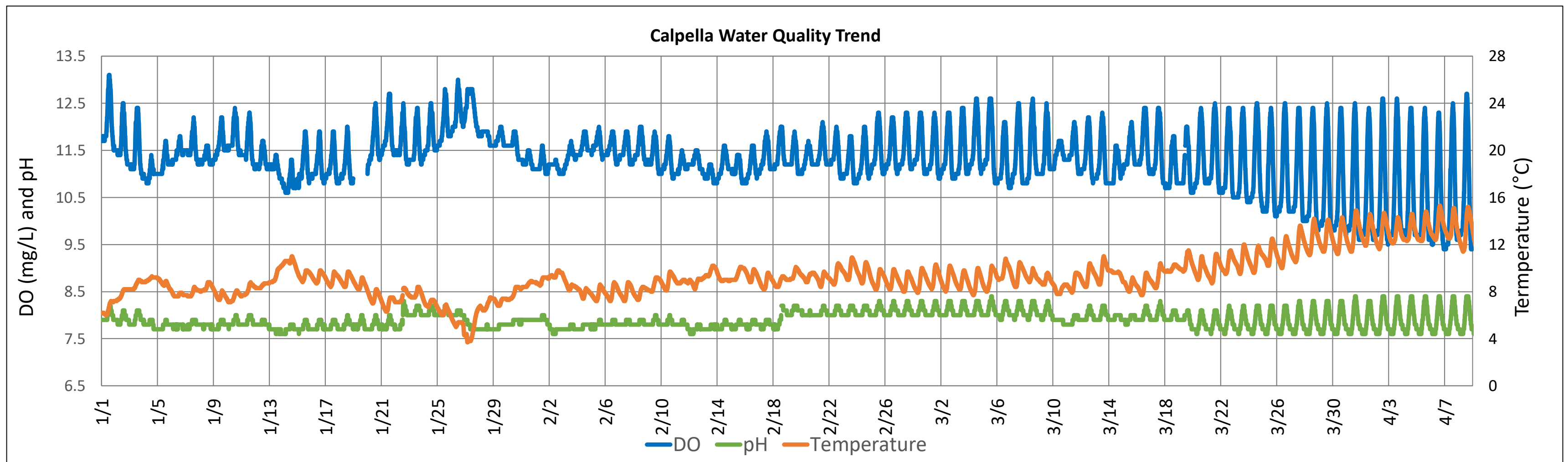
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463200	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	52.9	55.4		58.6	58.8		58.8	
	Max	59.5	62.2		65.8	66.2		64.0	
	Mean	55.7	58.9		61.7	61.6		61.2	
Specific Conductivity (µS/cm)	Min	233	277			321		297	
	Max	248	288			334		304	
	Mean	238	283			327		299	
Dissolved Oxygen (mg/L)	Min	9.4	7.9			8.0		8.6	
	Max	12.6	13.7			11.1		10.4	
	Mean	10.5	10.2			9.4		9.7	
Dissolved Oxygen (% Saturation)	Min	85	75			78		83	
	Max	125	139			120		108	
	Mean	100	99			95		99	
pH	Min	7.6	7.6			7.7		8.0	
	Max	8.4	8.6			8.3		8.4	
	Mean	7.9	7.9			8.0		8.2	
Turbidity (NTU)	Min	0.9	0.9			0.3		1.3	
	Max	3.3	3.4			2.1		3.4	
	Mean	1.3	1.3			0.7		2.2	

*Station operated seasonally



Russian River Water Quality (January 1 - April 8, 2021)

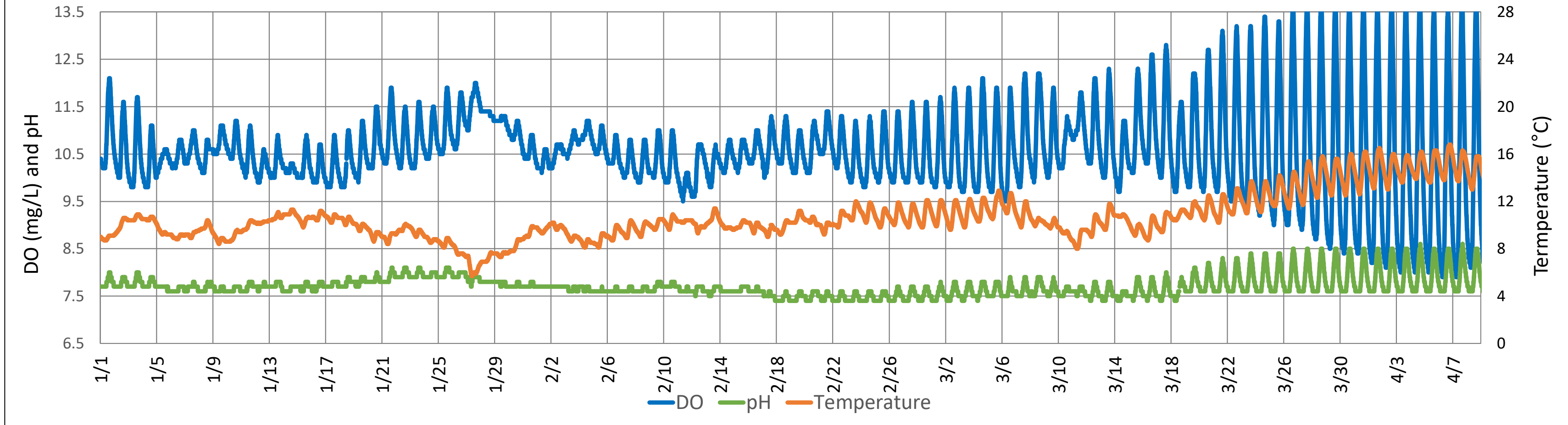
Calpella (East Fork Russian River)



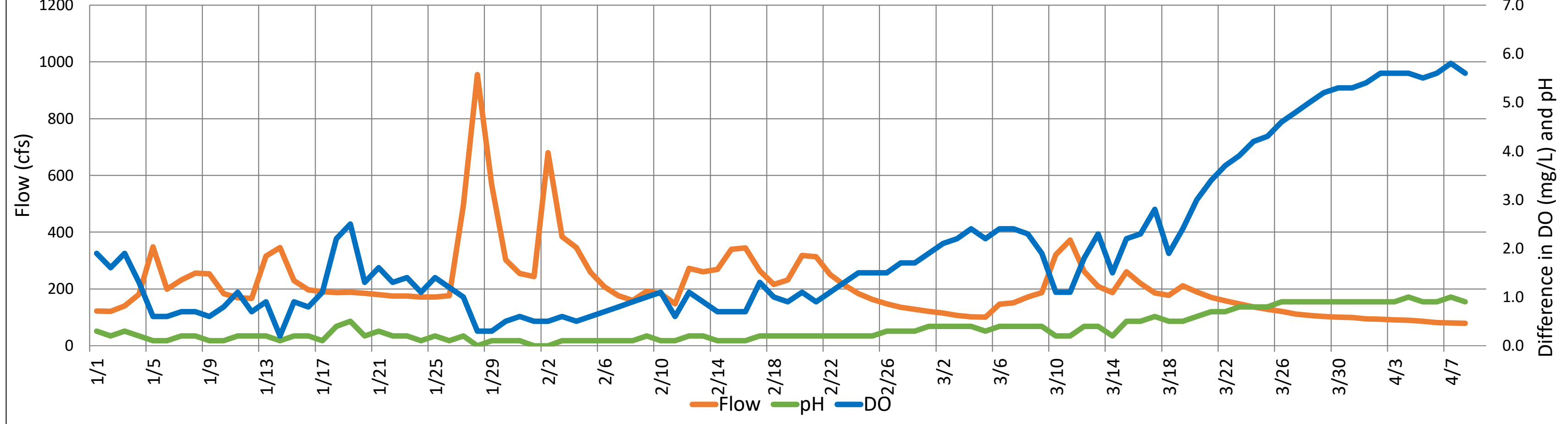
Russian River Water Quality (January 1 - April 8, 2021)

Hopland

Hopland Water Quality Trend

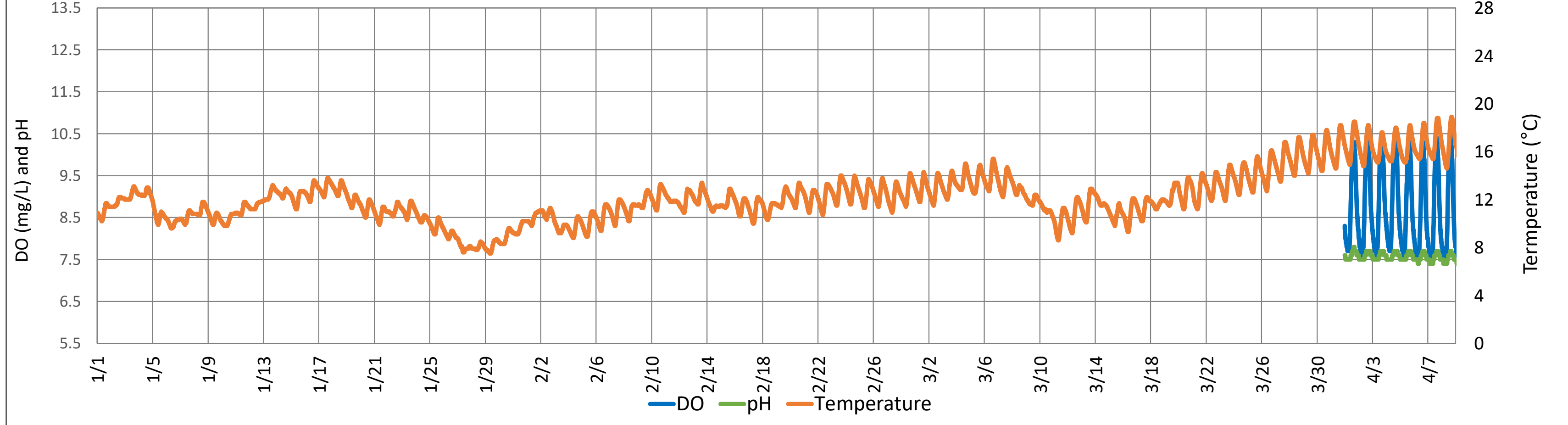


Hopland - Difference between Daily Maximum and Minimum for DO and pH

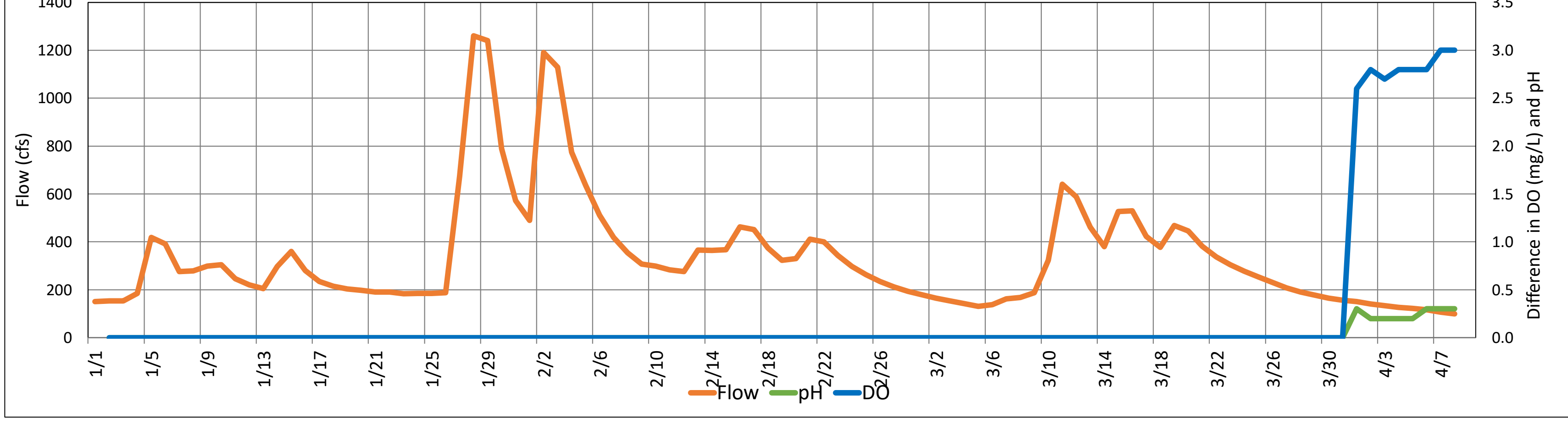


Jimtown Water Quality

Jimtown

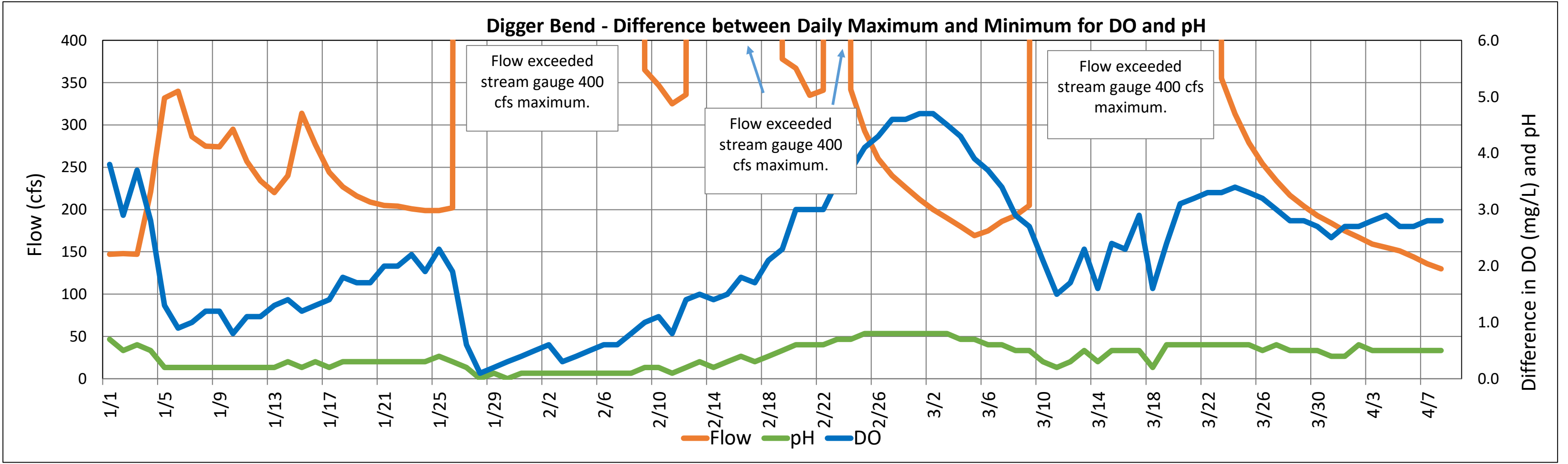
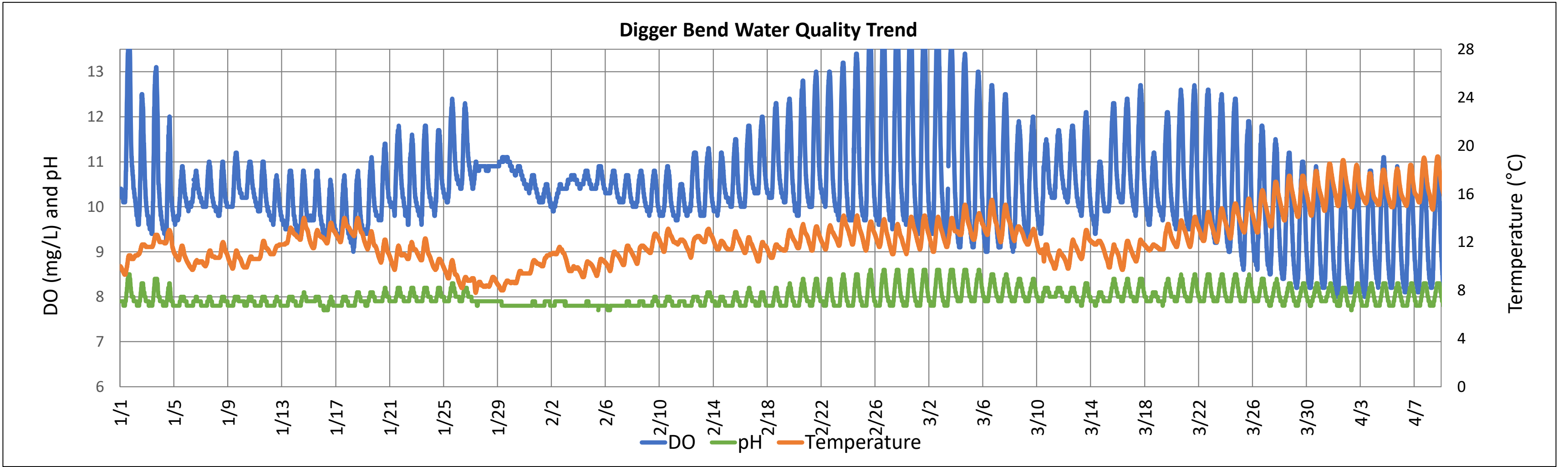


Jimtown- Difference between Daily Maximum and Minimum for DO and pH

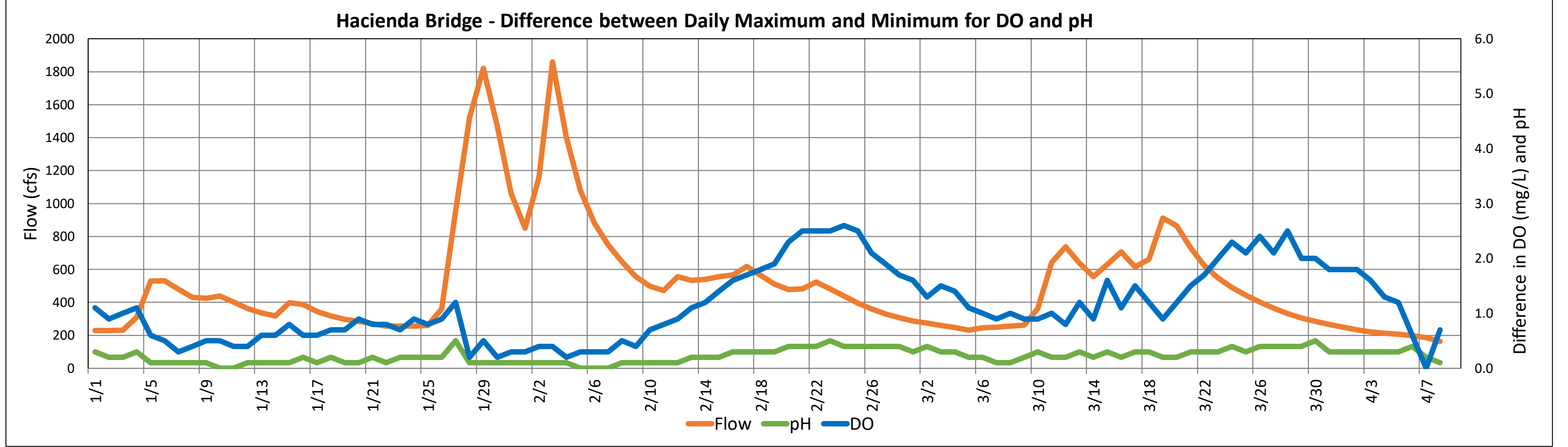
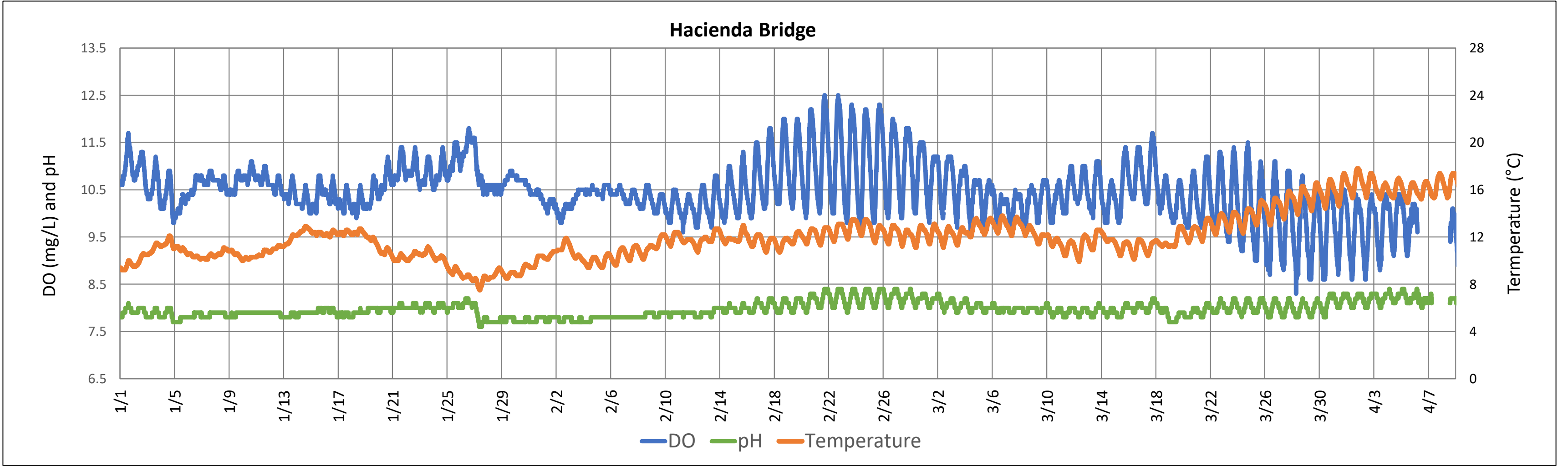


Russian River Water Quality (January 1 - April 8, 2021)

Digger Bend



Hacienda Bridge Water Quality



Russian River Fisheries Monitoring



Report on 4/8/21: Sonoma Water surveyed sites in the upper Russian River and in Dry Creek to collect information on spawning salmonids and their redds. In total 2 steelhead and 11 redds were observed in the upper reach of the Russian River. In the Alexander Valley reach of the Russian River no redds or adult salmonids were observed. In Dry Creek, 17 adult steelhead, and 8 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, 611 steelhead, 609 Chinook salmon, and 316 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	611
West ladder	1/19/2021	Chinook	609
		Coho	316
		Unidentified Salmonid	64

Salmonid Redd and Spawner Survey

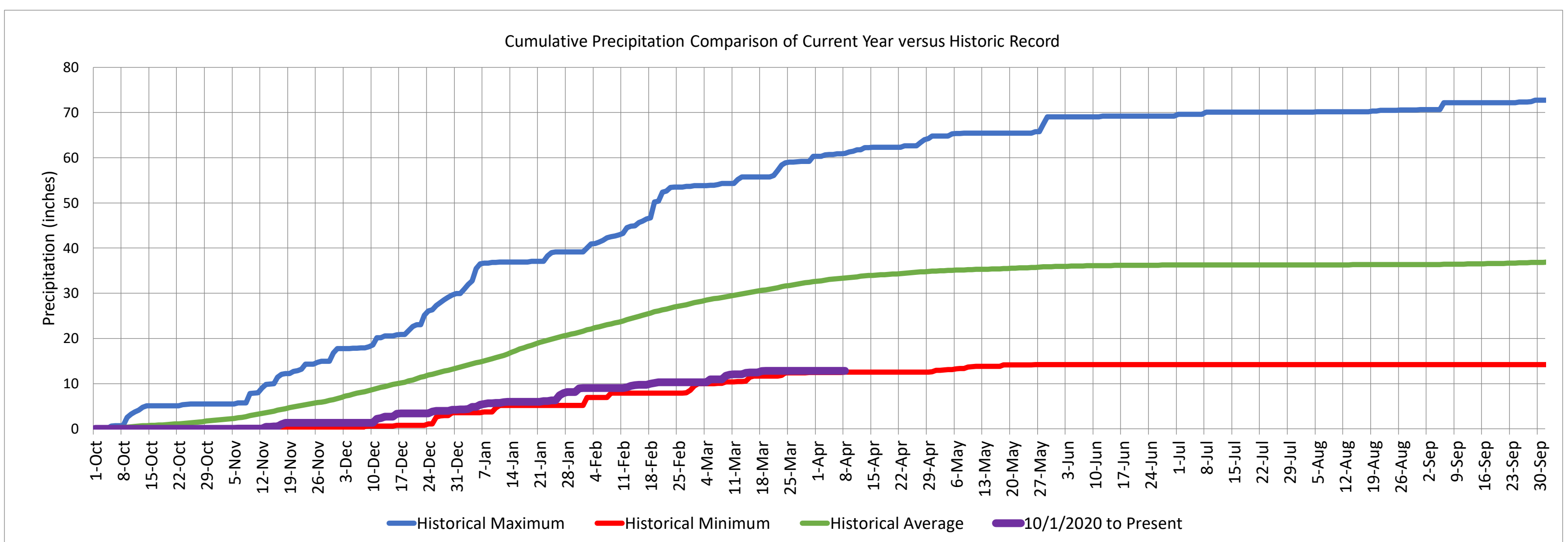
Tributary	Reach	Number of Trips to Date	Earliest Survey Date	Previous Week Survey	Recent Survey Date
Dry Creek	Dry Creek	7	2/7/2021	3/28/2021	4/4/2021
Russian River	Alexander Valley	6	2/14/2021	3/28/2021	4/4/2021
Russian River	Upper Mainstem	6	2/14/2021	3/28/2021	4/4/2021

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	41	0	3	17	0	8
Russian River	Alexander Valley	0	0	2	0	0	0
Russian River	Upper Mainstem	0	0	10	2	0	11

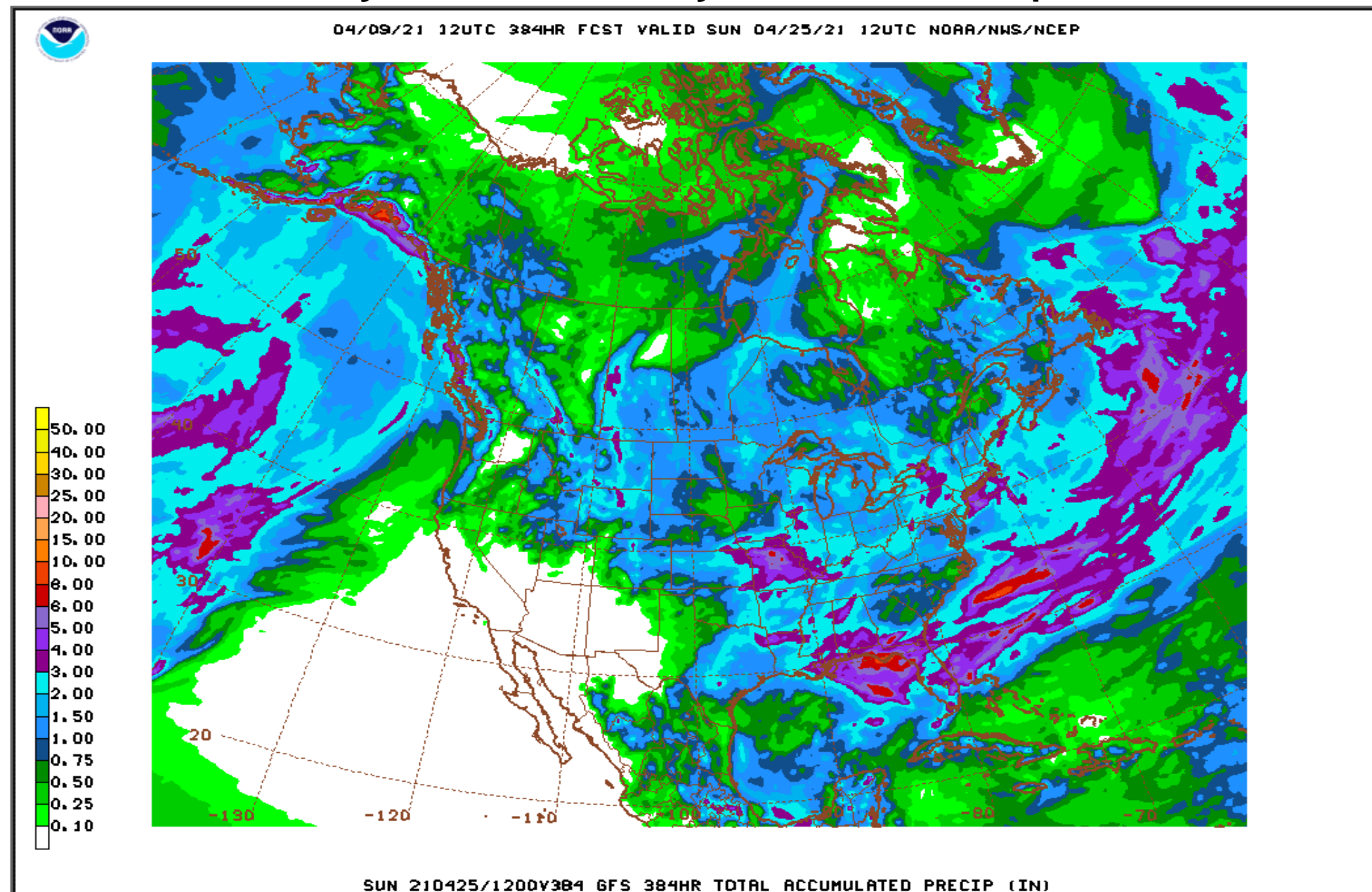
*Redd counts may include old redds that were observed in previous surveys.

Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2020 - Apr 8, 2021	12.83
Last 7 Days*	0.00



Global Forecast System Model 16-day Cumulative Precipitation Forecast



Date Range	Forecasted Cumulative (inches)
Apr 9 - Apr 24, 2021	0.0