



State Water Resources Control Board
 Temporary Urgency Change Order (2/4/2021)
 Russian River Hydrologic Report
 April 23, 2021 - April 29, 2021

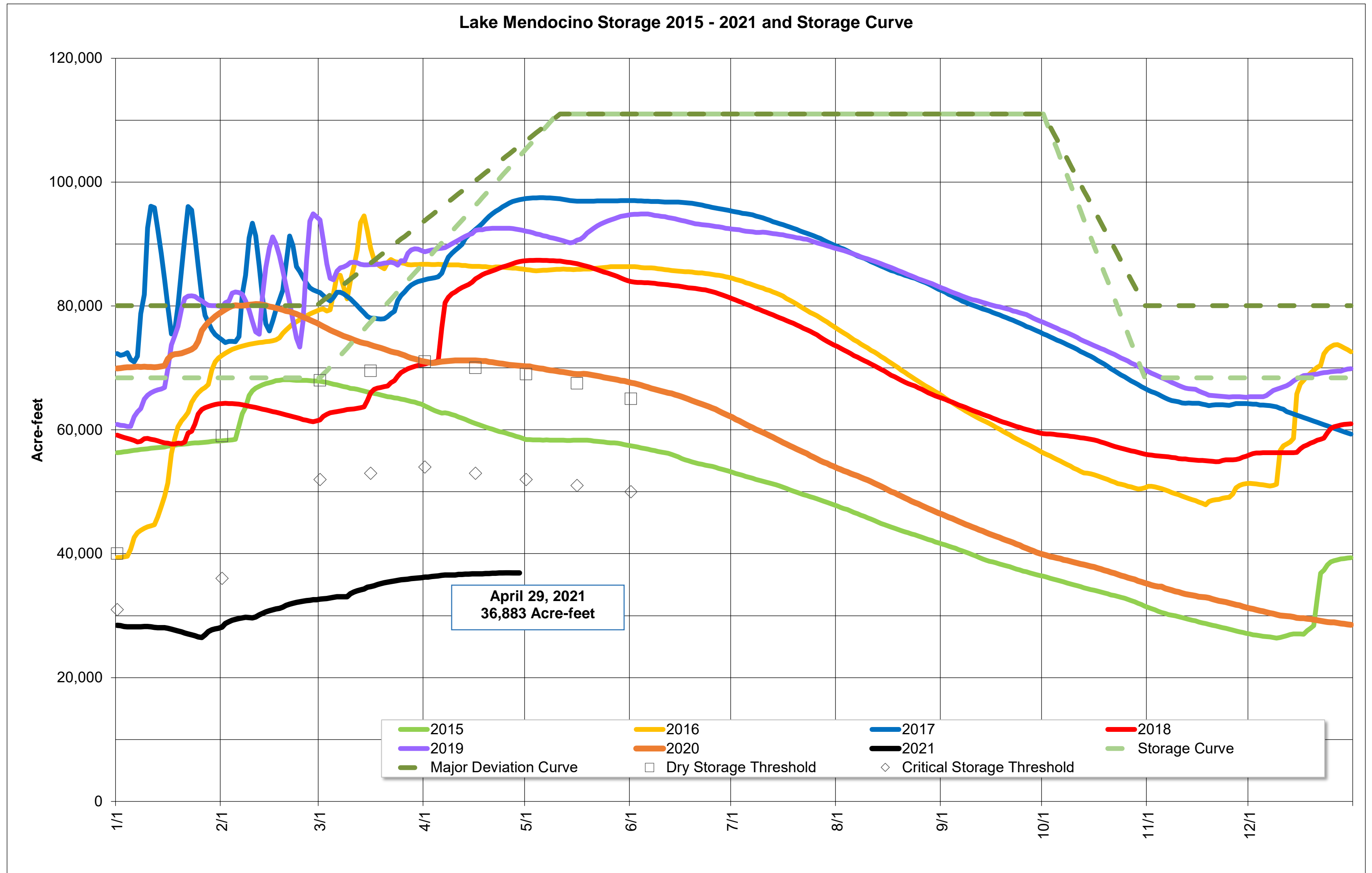
Prepared as a requirement of the Order approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A (Applications 12919A).

Instream Flow Requirements as of April 29, 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

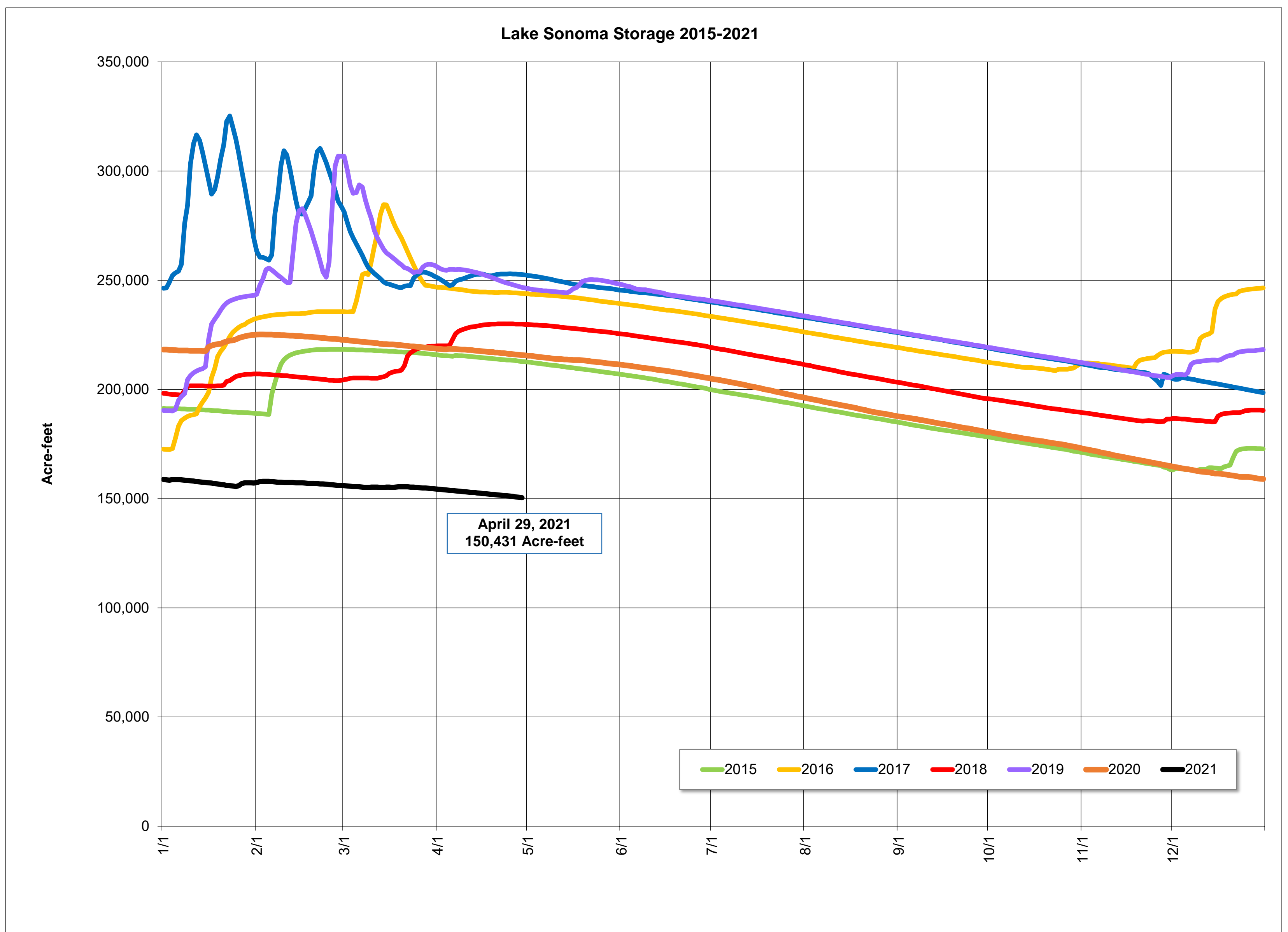


Storage (acre-feet)	April 29, 2021	36,883	
Change in Storage (acre-feet)	Last 30 days	780	26
	Last 7 days	13	2
Daily Inflow (cfs)	Last 7 days	Min	31
		Max	50
		Mean	39
Release (cfs)	Last 7 days	Min	28
		Max	29
		Mean	29

Lake Sonoma



Nathan Baskett, March 3, 2021



Storage (acre-feet)	April 29, 2021	150,431	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	-4,182	-139
	Last 7 days	-1,124	-161
Daily Inflow (cfs)	Last 7 days	Min	0
		Max	35
		Mean	5
Release (cfs)	Last 7 days	Min	66
		Max	84
		Mean	76

Potter Valley Project

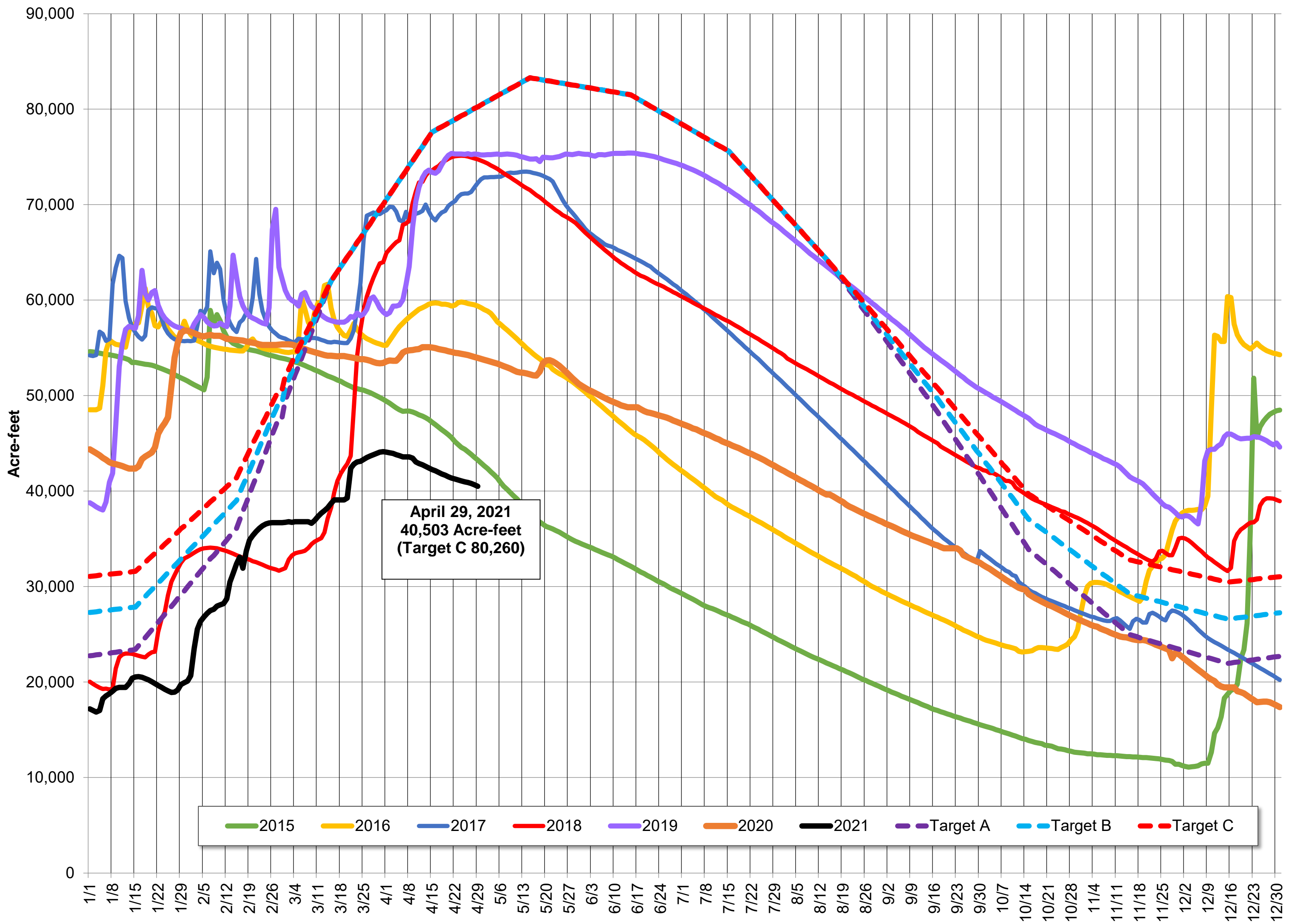
PVP Diversion (cfs)	April 29, 2021	55
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Lake Pillsbury

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2020 - April 29, 2021	83,305	397
	Last 7 days	1,621	232

*Inflow calculation based on criteria established in D1610

Lake Pillsbury Storage 2015-2021 and Target Storage Scenarios

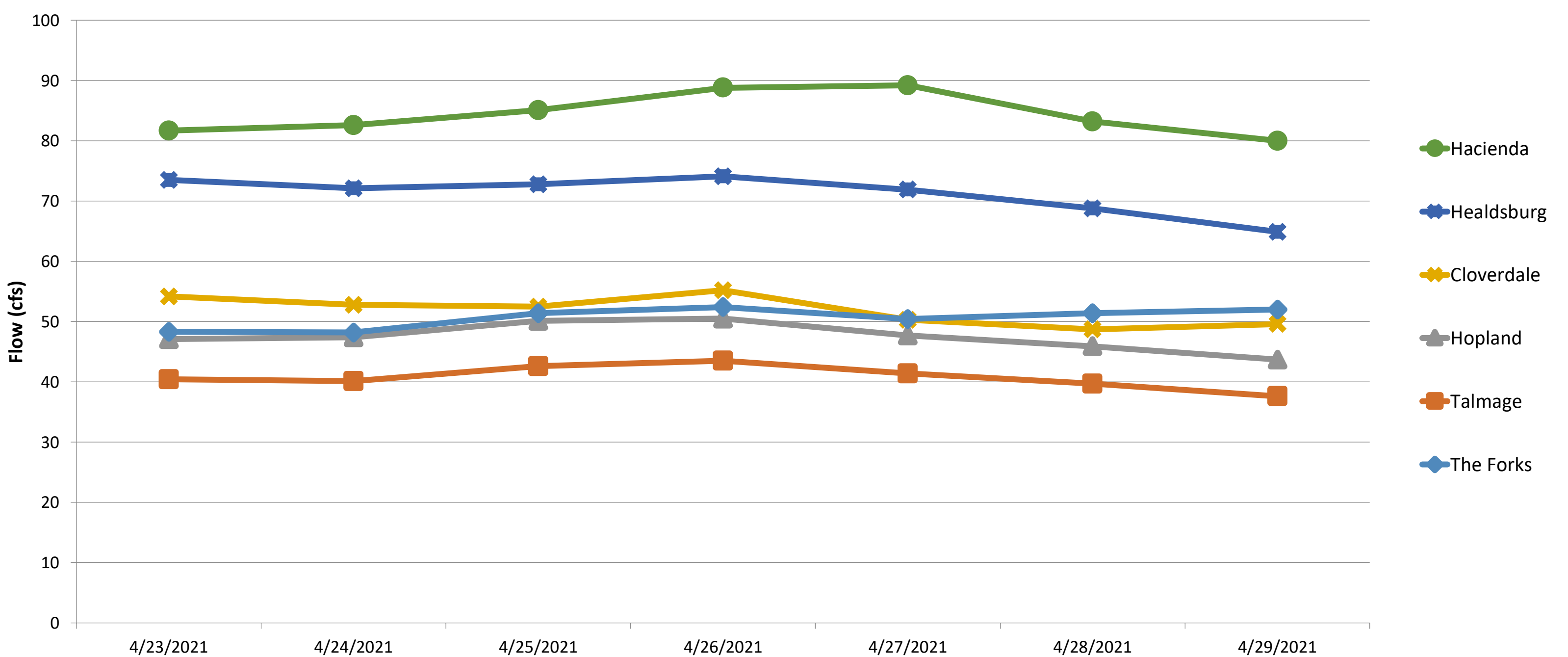


Russian River Flows (April 23 - April 29, 2021)

Gage	24-hr Average Flow (cfs)						
	Apr 23, 2021	Apr 24, 2021	Apr 25, 2021	Apr 26, 2021	Apr 27, 2021	Apr 28, 2021	Apr 29, 2021
The Forks*	48	48	51	52	50	51	52
Talmage USGS 11462080	40	40	43	44	41	40	38
Hopland USGS 11462500	47	47	50	51	48	46	44
Cloverdale USGS 11463000	54	53	53	55	50	49	50
Healdsburg USGS 11464000	74	72	73	74	72	69	65
Hacienda USGS 11467000	82	83	85	89	89	83	80

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

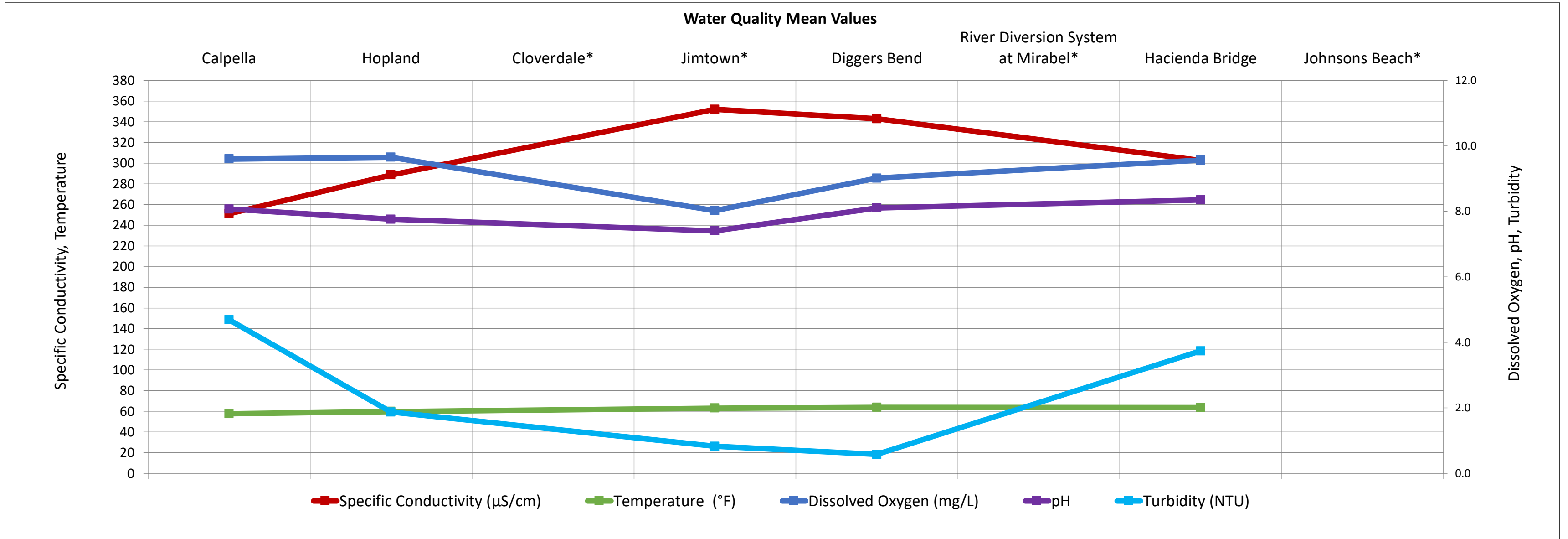
Russian River Flows



Russian River Water Quality (April 23 - April 29, 2021)

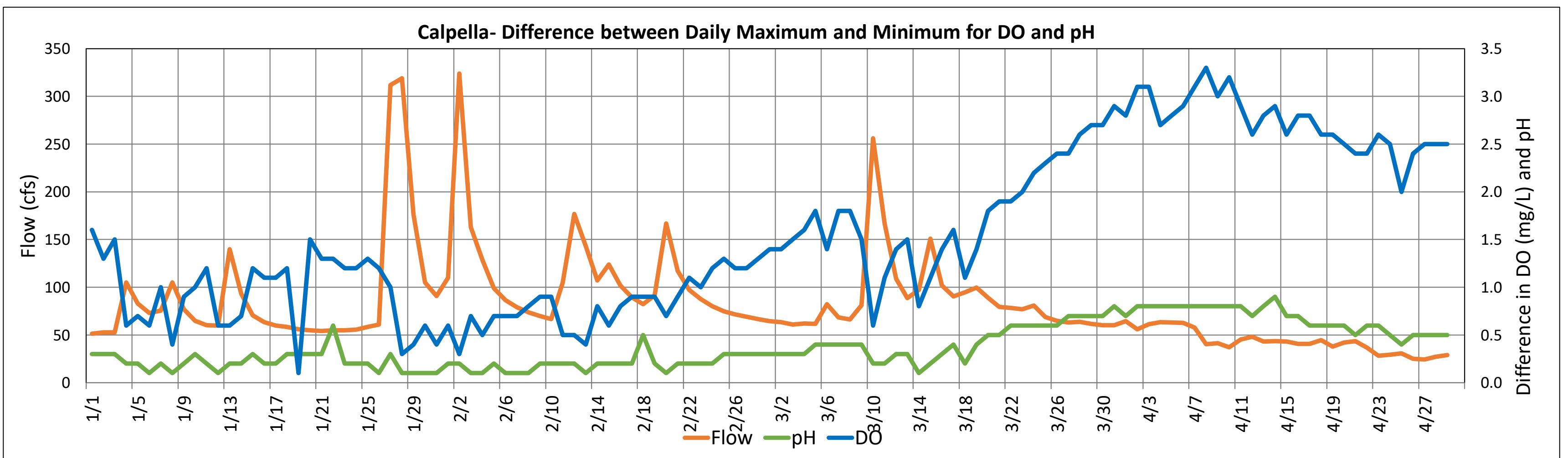
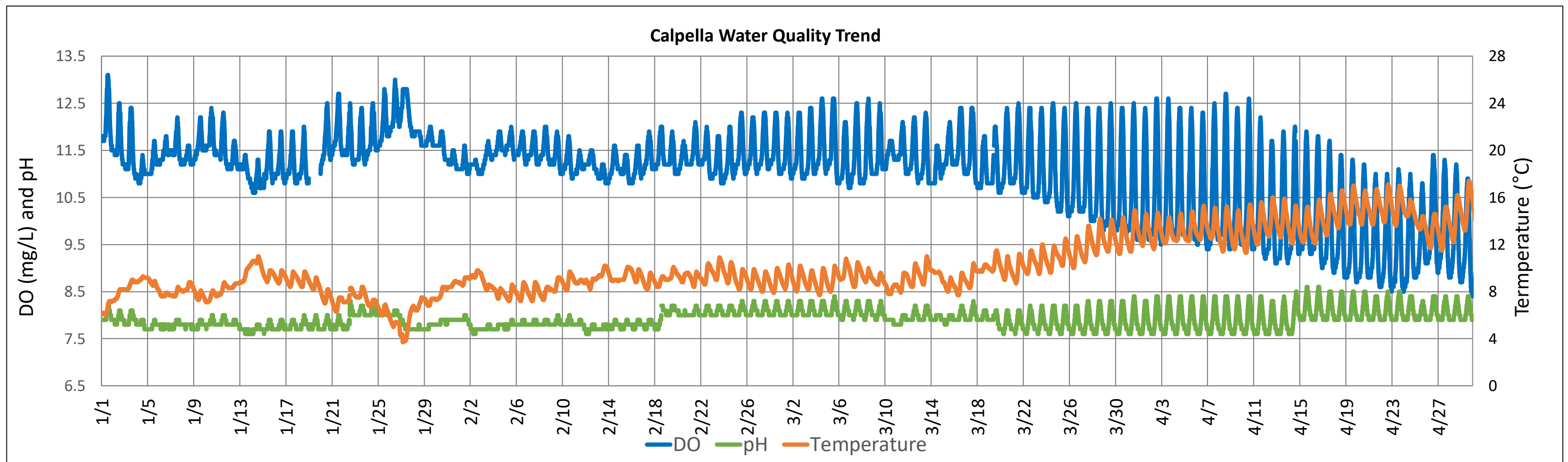
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463200	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	52.7	55.0		58.6	58.3		59.2	
	Max	62.8	64.0		69.6	70.9		67.5	
	Mean	57.7	59.8		63.2	63.9		63.7	
Specific Conductivity (µS/cm)	Min	235	281		345	337		295	
	Max	264	294		374	346		311	
	Mean	251	289		352	343		302	
Dissolved Oxygen (mg/L)	Min	8.5	7.0		6.6	6.9		7.5	
	Max	11.4	13.2		10.3	10.5		11.5	
	Mean	9.6	9.7		8.0	9.0		9.6	
Dissolved Oxygen (% Saturation)	Min	77	65		64	67		74	
	Max	118	137		113	118		124	
	Mean	93	96		83	93		99	
pH	Min	7.9	7.4		7.3	7.8		7.9	
	Max	8.5	8.3		7.6	8.4		8.9	
	Mean	8.1	7.8		7.4	8.1		8.4	
Turbidity (NTU)	Min	3.2	0.7		0.2	0.2		1.1	
	Max	12.1	34.8		1.7	2.4		14.9	
	Mean	4.7	1.9		0.8	0.6		3.7	

*Station operated seasonally



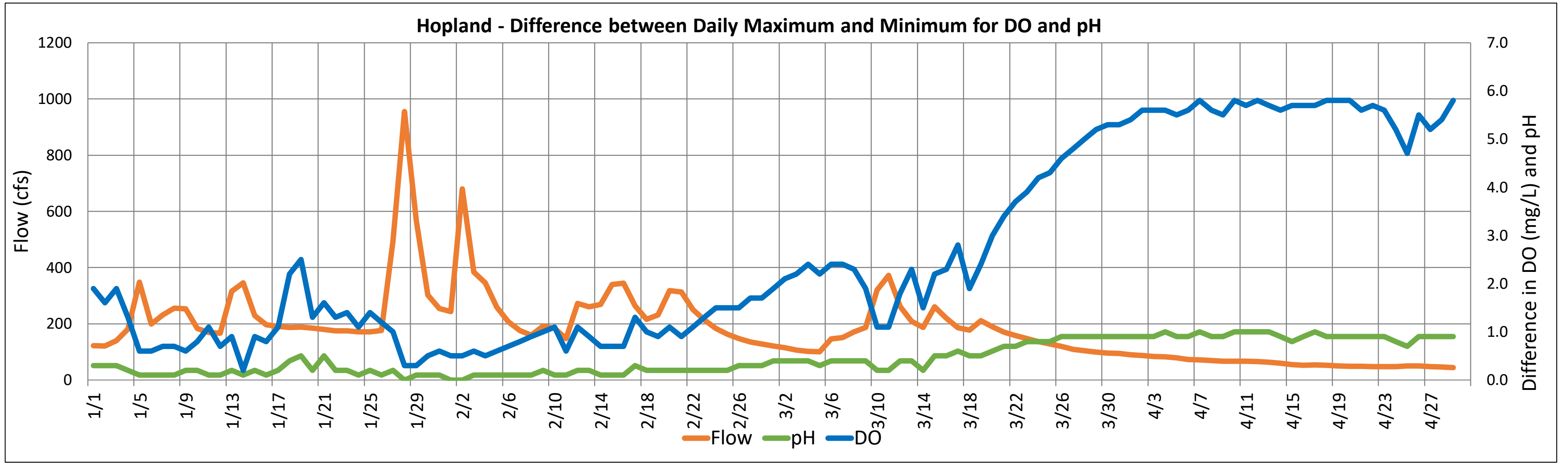
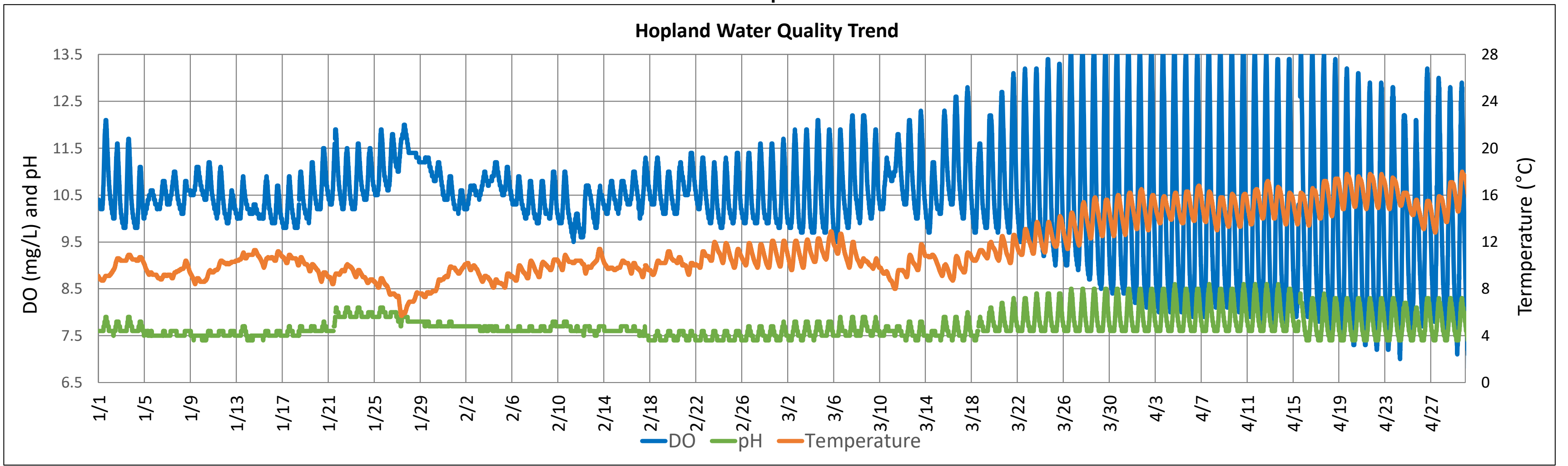
Russian River Water Quality (January 1 - April 29, 2021)

Calpella (East Fork Russian River)

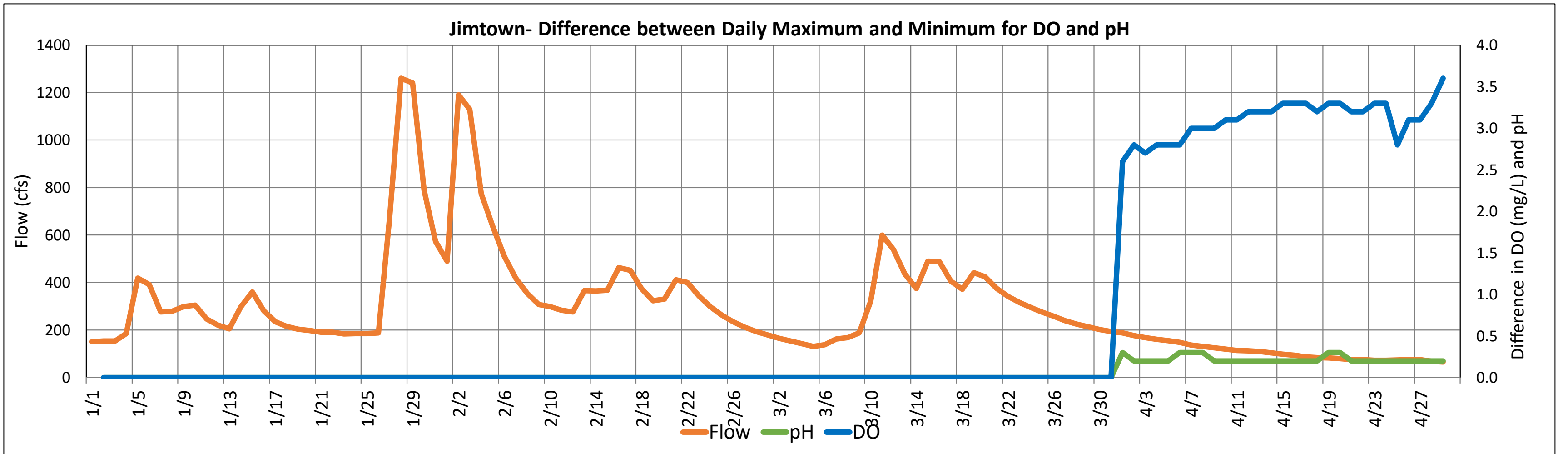
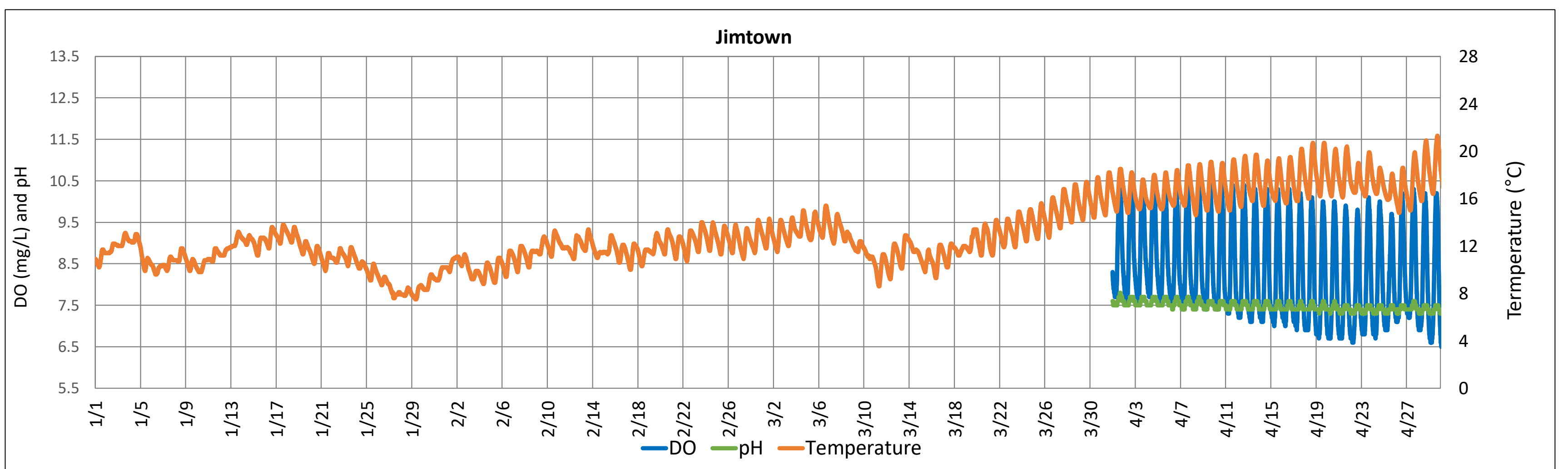


Russian River Water Quality (January 1 - April 29, 2021)

Hopland

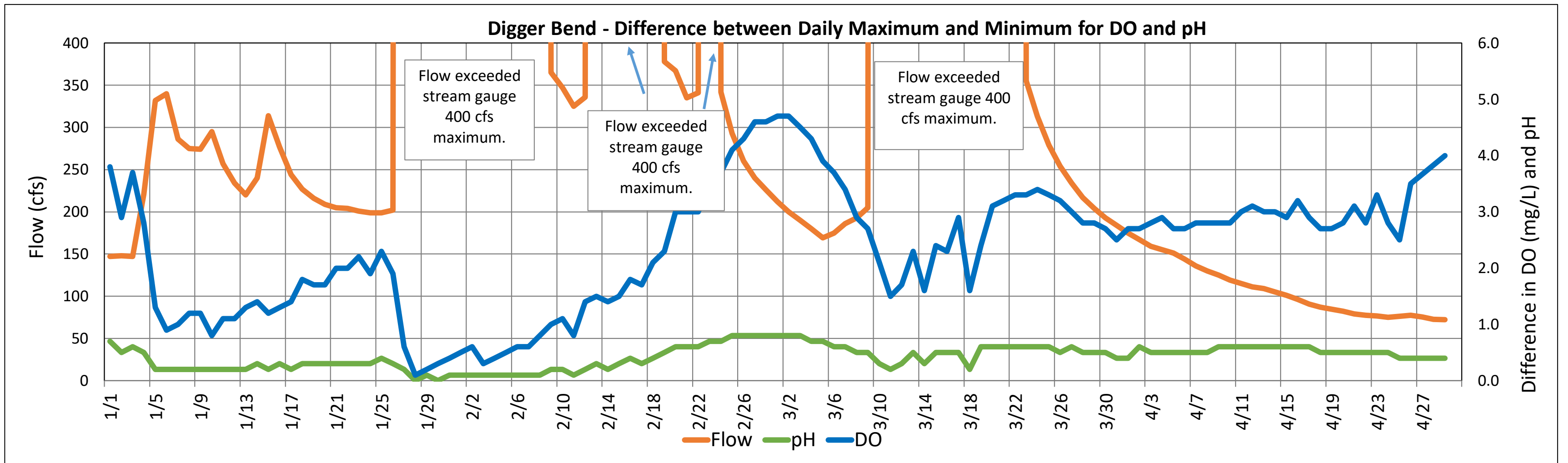
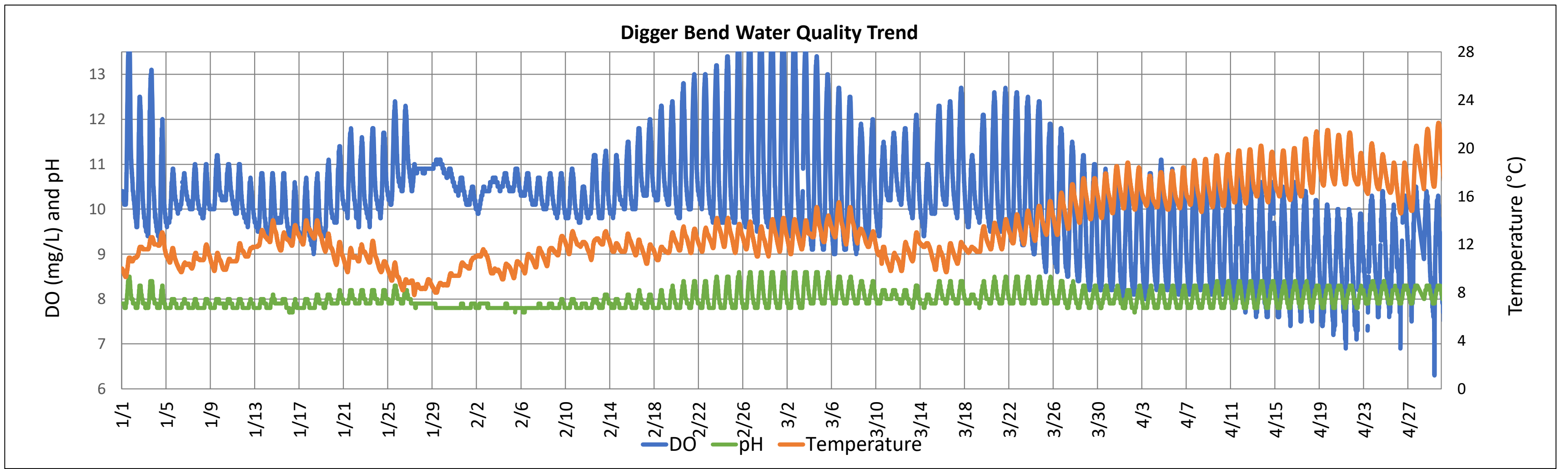


Jimtown Water Quality

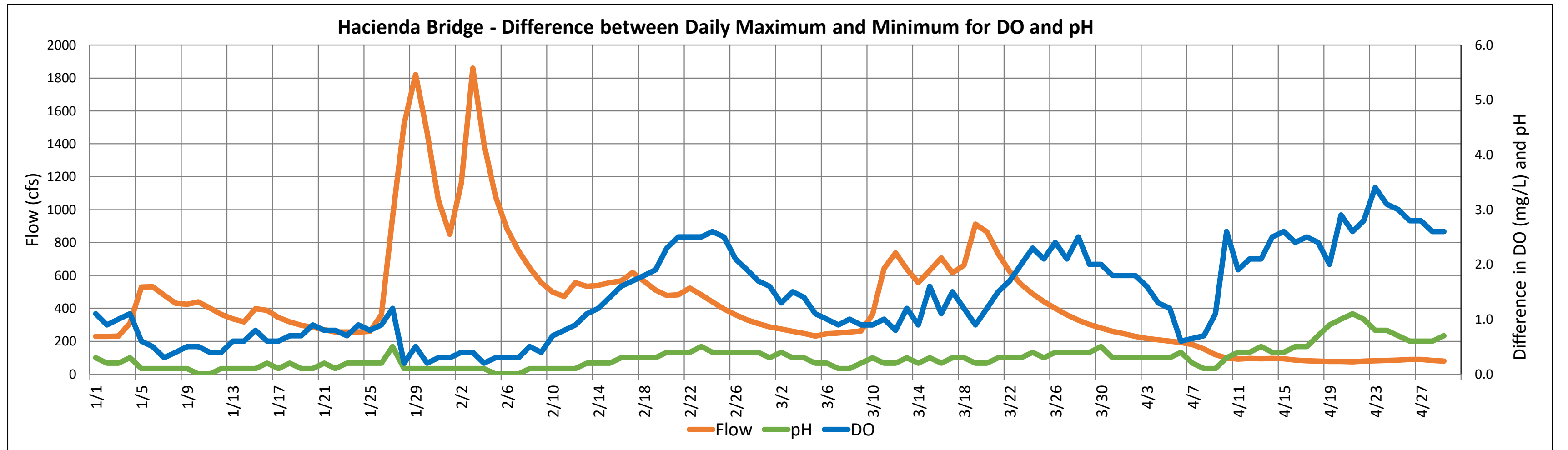
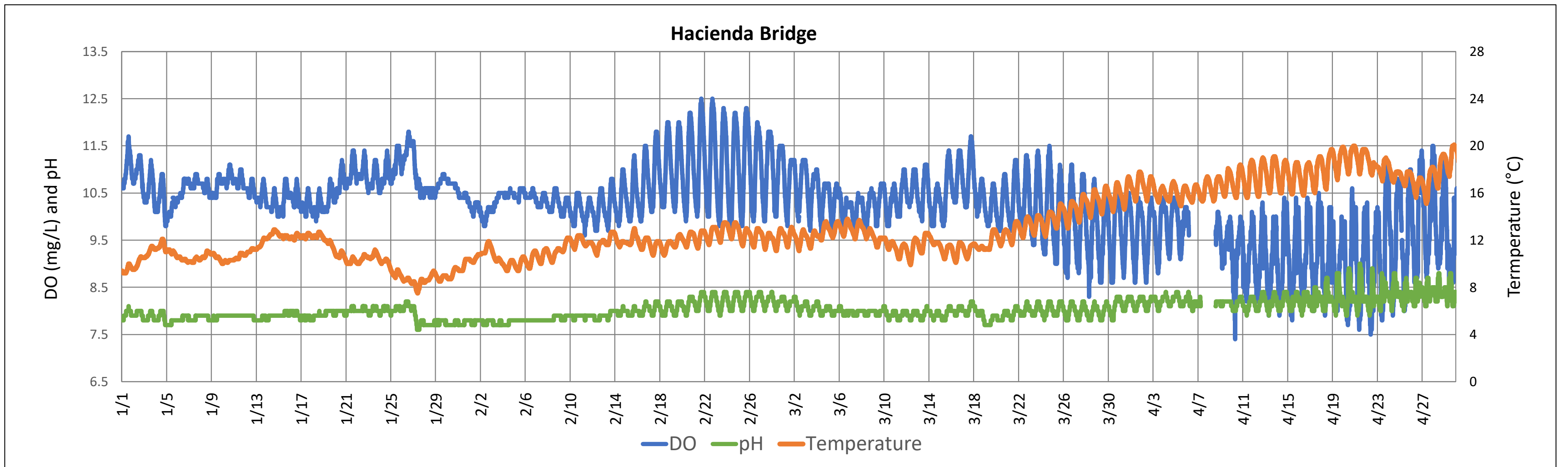


Russian River Water Quality (January 1 - April 29, 2021)

Digger Bend



Hacienda Bridge Water Quality



Russian River Fisheries Monitoring



Report on 4/29/21: Sonoma Water surveyed sites in the upper Russian River and in Dry Creek to collect information on spawning salmonids and their redds. In total 5 redds were observed in the upper reach of the Russian River and no redds were observed in the Alexander Valley reach of the Russian River. In Dry Creek, 1 adult steelhead and 2 redds were observed.

The Mirabel dam video monitoring station closed for the season on January 26, 2021, but Sonoma Water continues to review video that was collected earlier in the season. Sonoma Water has reviewed all the video that was collected during the 2020 return year. To date, 661 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	1/26/2021	Steelhead	661
West ladder	1/26/2021	Chinook	609
		Coho	316
		Unidentified Salmonid	64

Salmonid Redd and Spawner Survey

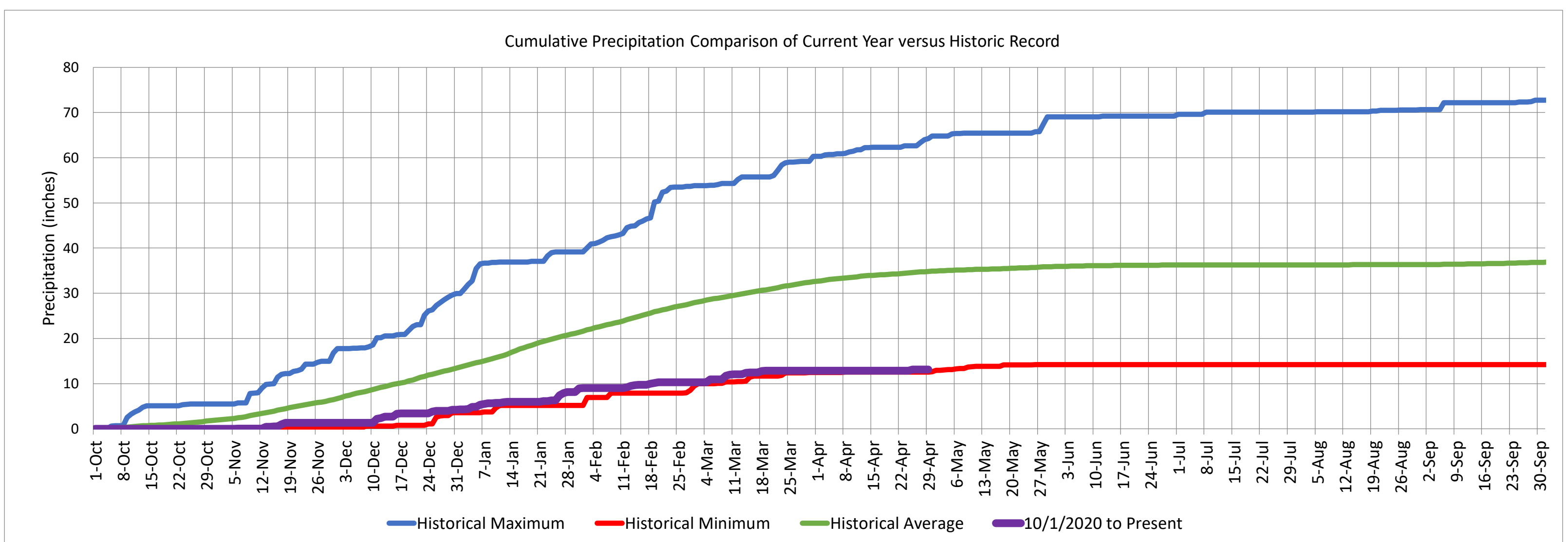
Tributary	Reach	Number of Trips to Date	Earliest Survey Date	Previous Week Survey	Recent Survey Date
Dry Creek	Dry Creek	11	2/7/2021	4/18/2021	4/25/2021
Russian River	Alexander Valley	10	2/14/2021	4/18/2021	4/25/2021
Russian River	Upper Mainstem	10	2/14/2021	4/18/2021	4/25/2021

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	1	0	2	1	0	2
Russian River	Alexander Valley	0	0	4	0	0	0
Russian River	Upper Mainstem	0	0	5	0	0	5

*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 29, 2021	13.12
Last 7 Days*	0.29



Global Forecast System Model 16-day Cumulative Precipitation Forecast

