



State Water Resources Control Board
 Temporary Urgency Change Order (2/4/2021)
 Russian River Hydrologic Report
 April 9, 2021 - April 15, 2021

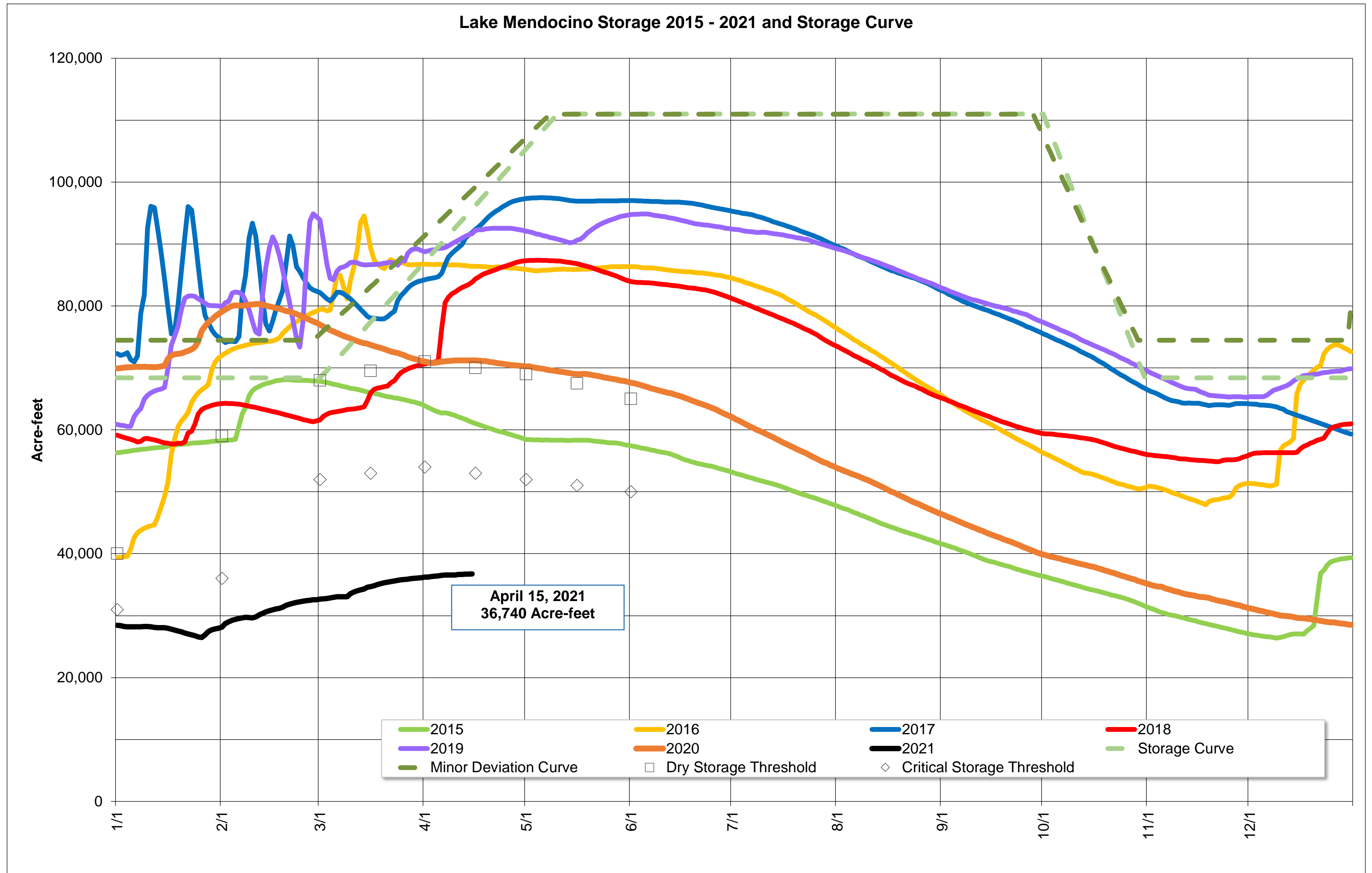
Prepared as a requirement of the Order approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A (Applications 12919A).

Instream Flow Requirements as of April 15, 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

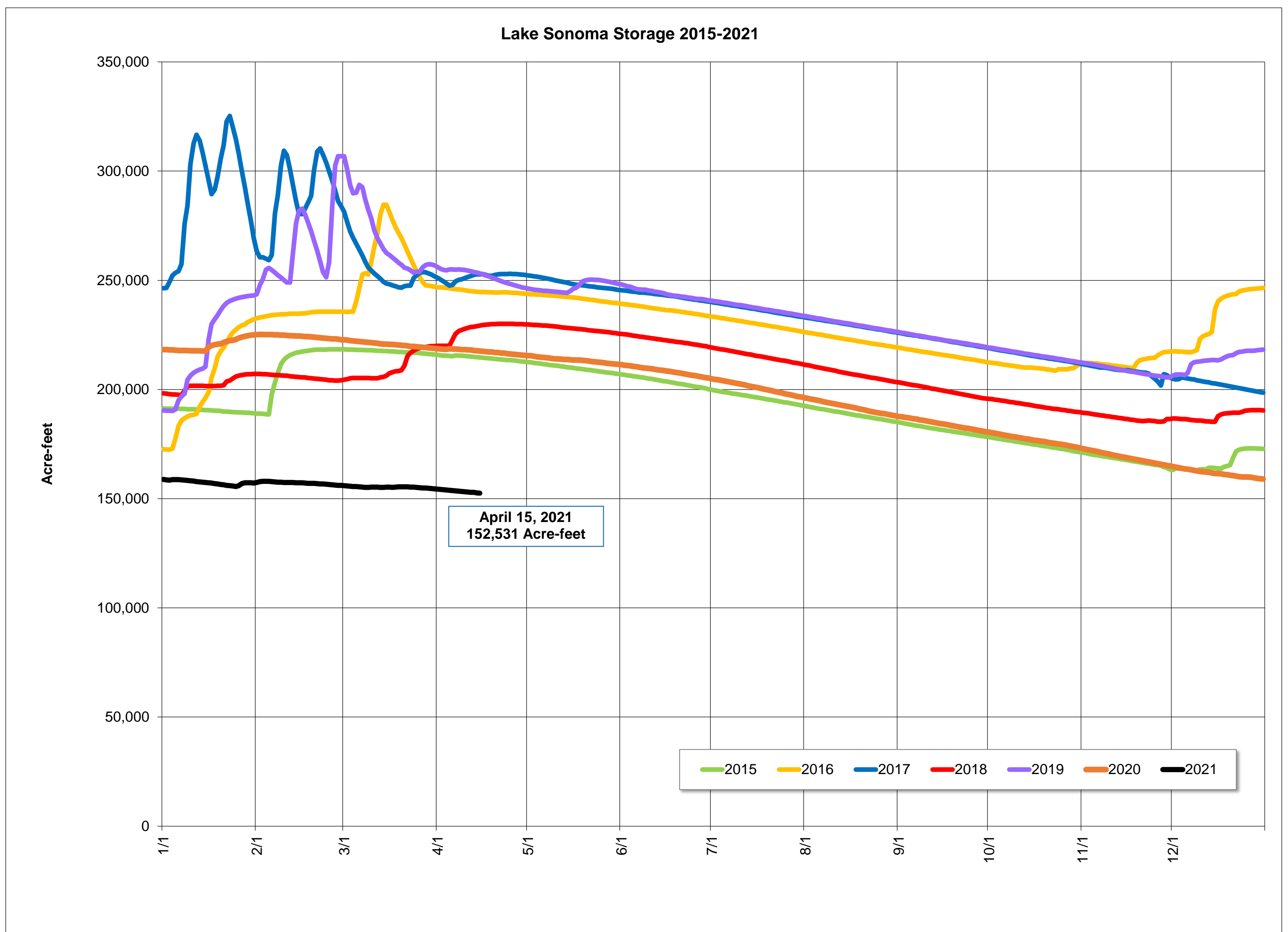


Storage (acre-feet)	April 15, 2021	36,740	
Change in Storage (acre-feet)	Last 30 days	2,033	68
	Last 7 days	170	24
Daily Inflow (cfs)	Last 7 days	Min	35
		Max	62
		Mean	48
Release (cfs)	Last 7 days	Min	28
		Max	29
		Mean	28

Lake Sonoma



Nathan Baskett, March 3, 2021



Storage (acre-feet)	April 15, 2021	152,531	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
		-2,741	-91
	Last 7 days	-923	-132
Daily Inflow (cfs)	Last 7 days	Min	0
		Max	26
		Mean	9
Release (cfs)	Last 7 days	Min	66
		Max	66
		Mean	66

Potter Valley Project

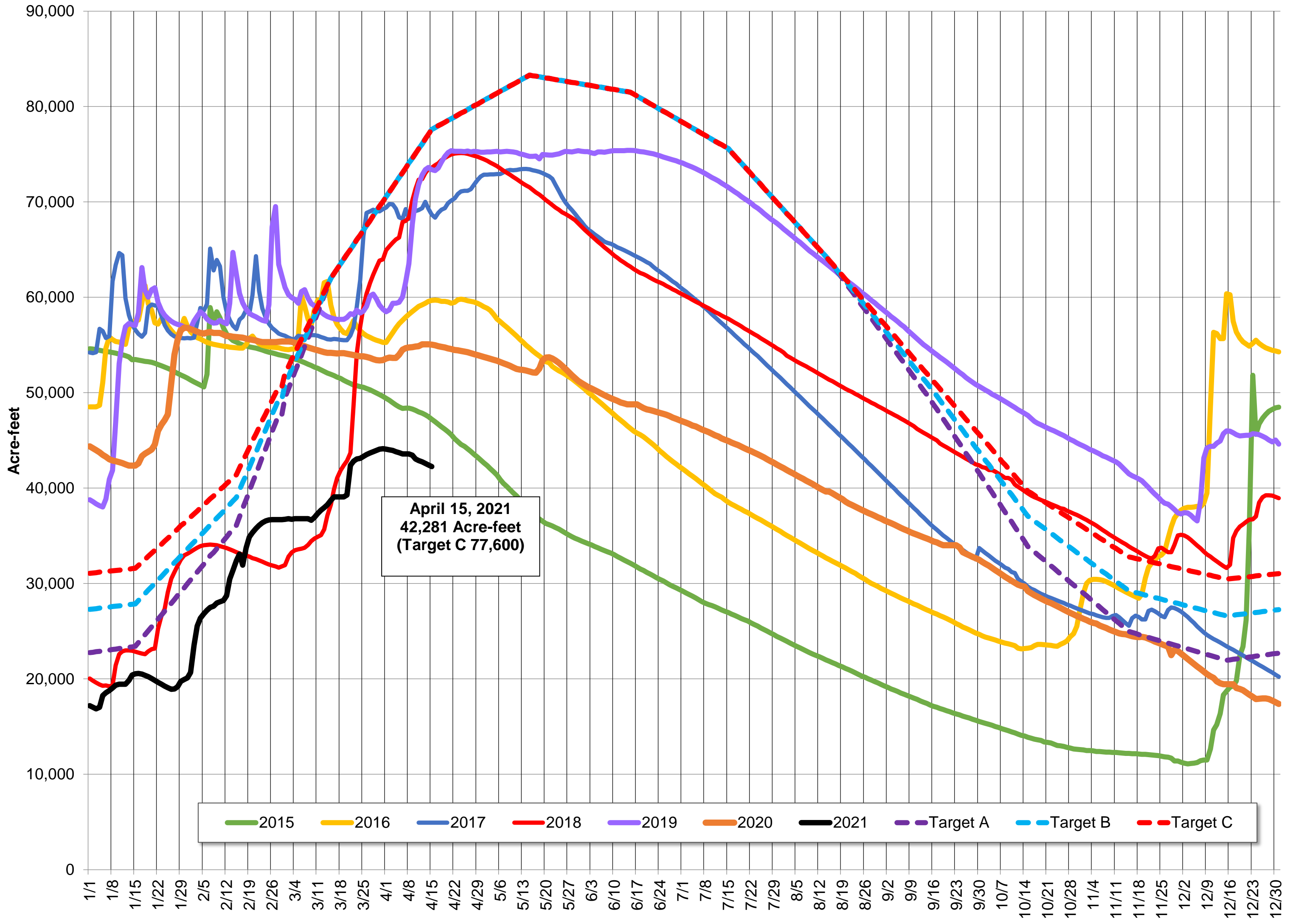
PVP Diversion (cfs)	April 15, 2021	75
---------------------	----------------	----

Lake Pillsbury

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2020 - April 15, 2021	79,952	408
	Last 7 days	2,124	303

*Inflow calculation based on criteria established in D1610

Lake Pillsbury Storage 2015-2021 and Target Storage Scenarios

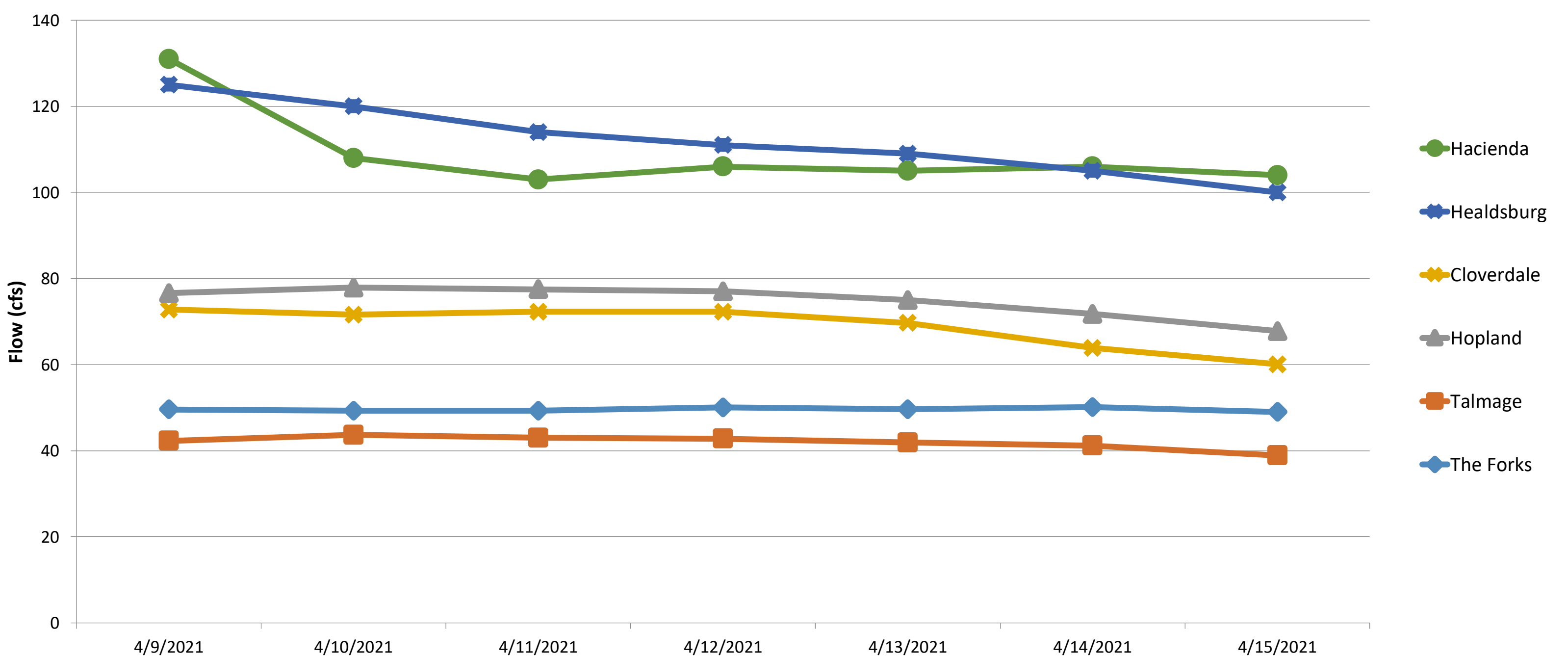


Russian River Flows (April 9 - April 15, 2021)

Gage	24-hr Average Flow (cfs)						
	Apr 9, 2021	Apr 10, 2021	Apr 11, 2021	Apr 12, 2021	Apr 13, 2021	Apr 14, 2021	Apr 15, 2021
The Forks*	50	49	49	50	50	50	49
Talmage USGS 11462080	42	44	43	43	42	41	39
Hopland USGS 11462500	77	78	78	77	75	72	68
Cloverdale USGS 11463000	73	72	72	72	70	64	60
Healdsburg USGS 11464000	125	120	114	111	109	105	100
Hacienda USGS 11467000	131	108	103	106	105	106	104

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

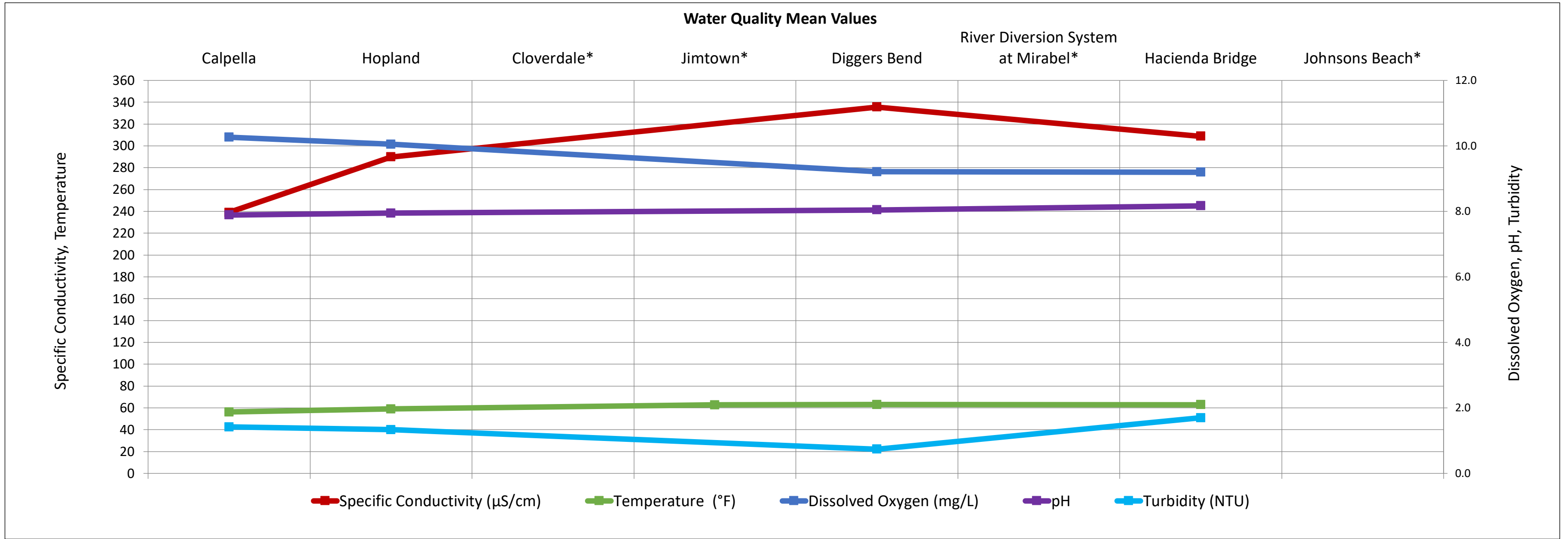
Russian River Flows



Russian River Water Quality (April 9 - April 15, 2021)

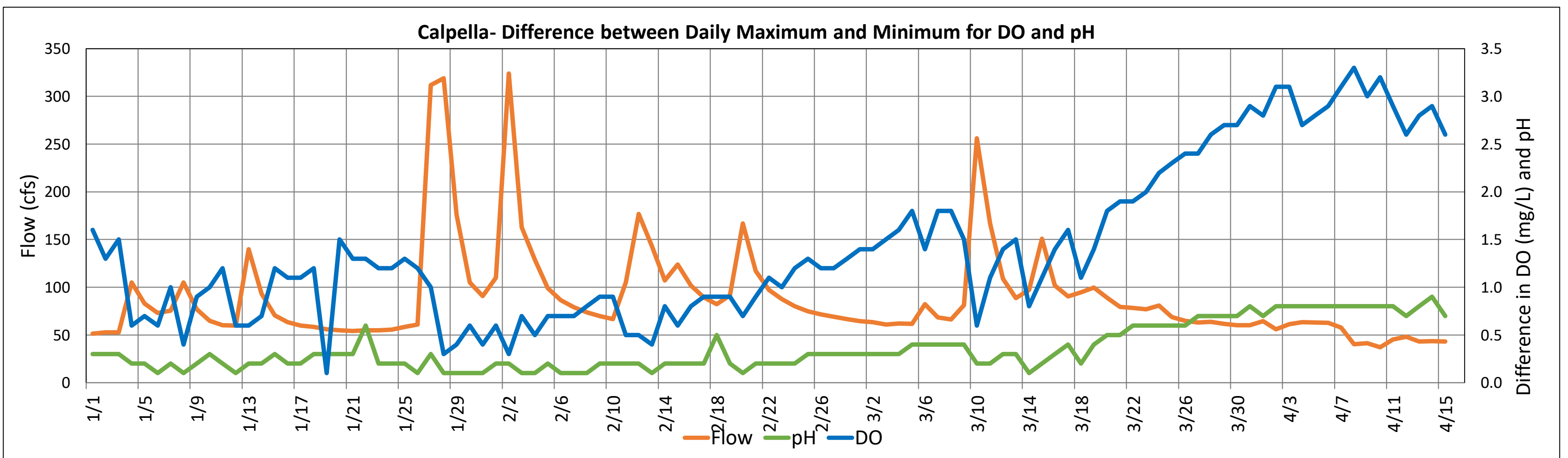
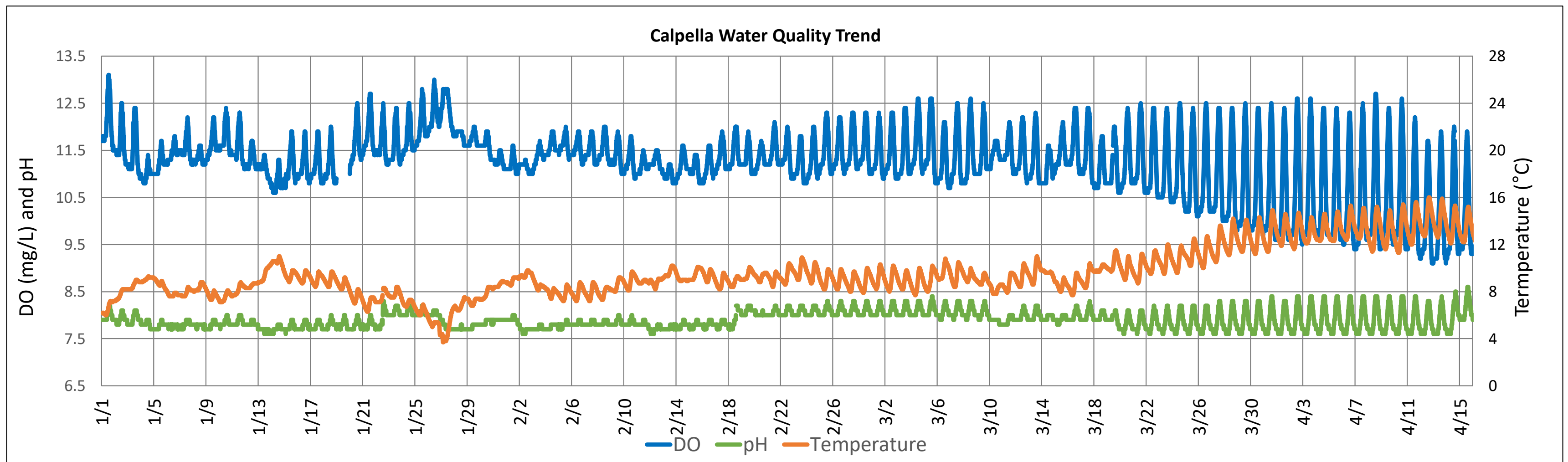
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463200	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	52.3	55.4		58.3	58.5		59.5	
	Max	60.8	63.0		67.5	68.4		66.4	
	Mean	56.3	59.1		62.7	63.1		62.9	
Specific Conductivity (µS/cm)	Min	220	285			330		302	
	Max	250	293			339		313	
	Mean	239	290			336		309	
Dissolved Oxygen (mg/L)	Min	9.1	7.7			7.6		7.4	
	Max	12.7	13.8			11.0		10.4	
	Mean	10.3	10.1			9.2		9.2	
Dissolved Oxygen (% Saturation)	Min	83	73			74		73	
	Max	129	143			121		112	
	Mean	97	100			95		95	
pH	Min	7.6	7.6			7.8		7.9	
	Max	8.5	8.6			8.4		8.4	
	Mean	7.9	8.0			8.0		8.2	
Turbidity (NTU)	Min	0.8	0.9			0.2		0.8	
	Max	2.9	4.8			2.1		3.1	
	Mean	1.4	1.3			0.7		1.7	

*Station operated seasonally



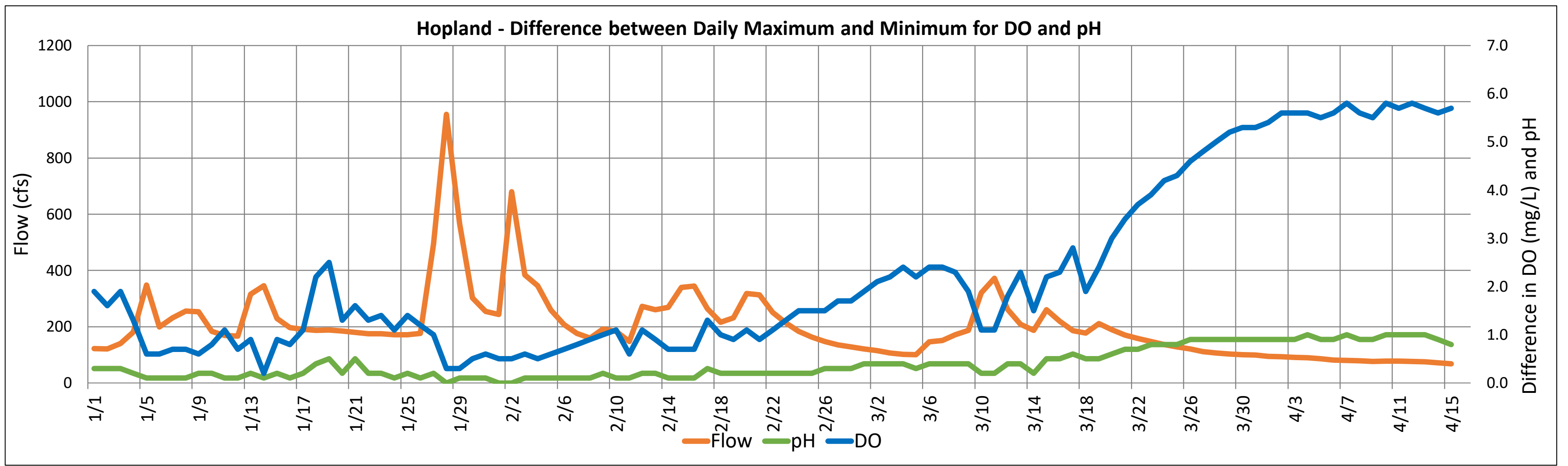
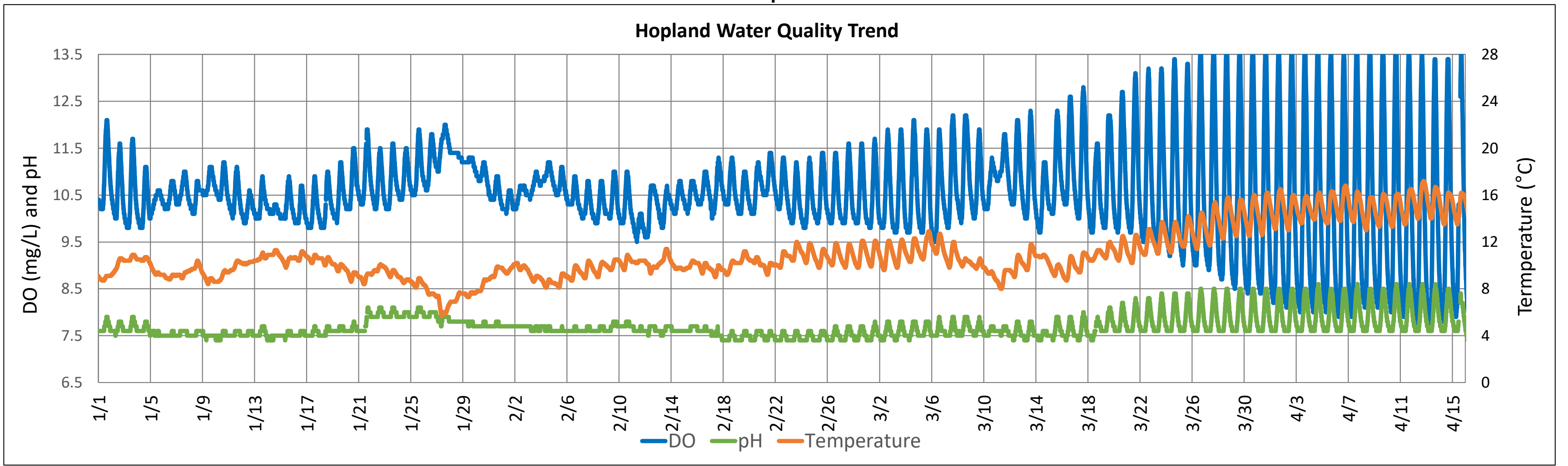
Russian River Water Quality (January 1 - April 15, 2021)

Calpella (East Fork Russian River)

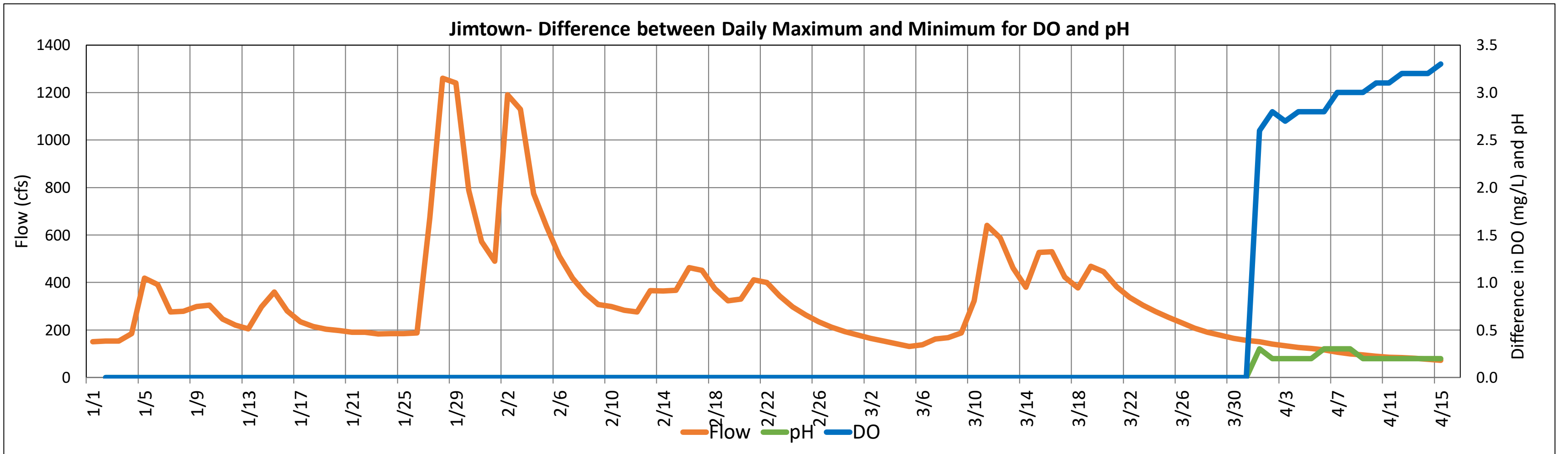
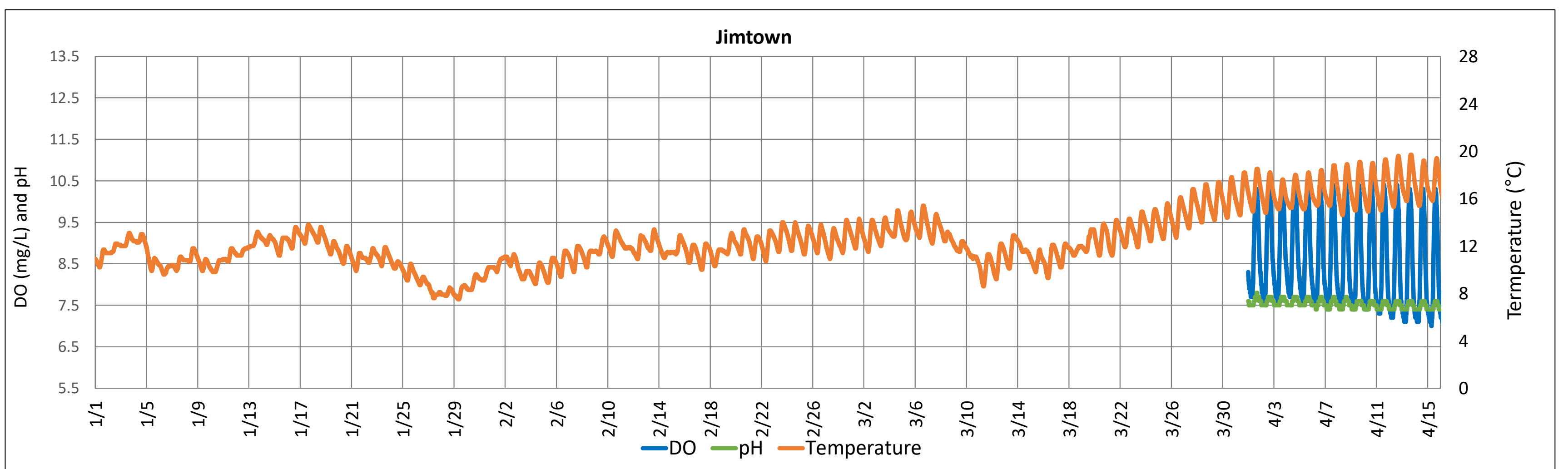


Russian River Water Quality (January 1 - April 15, 2021)

Hopland

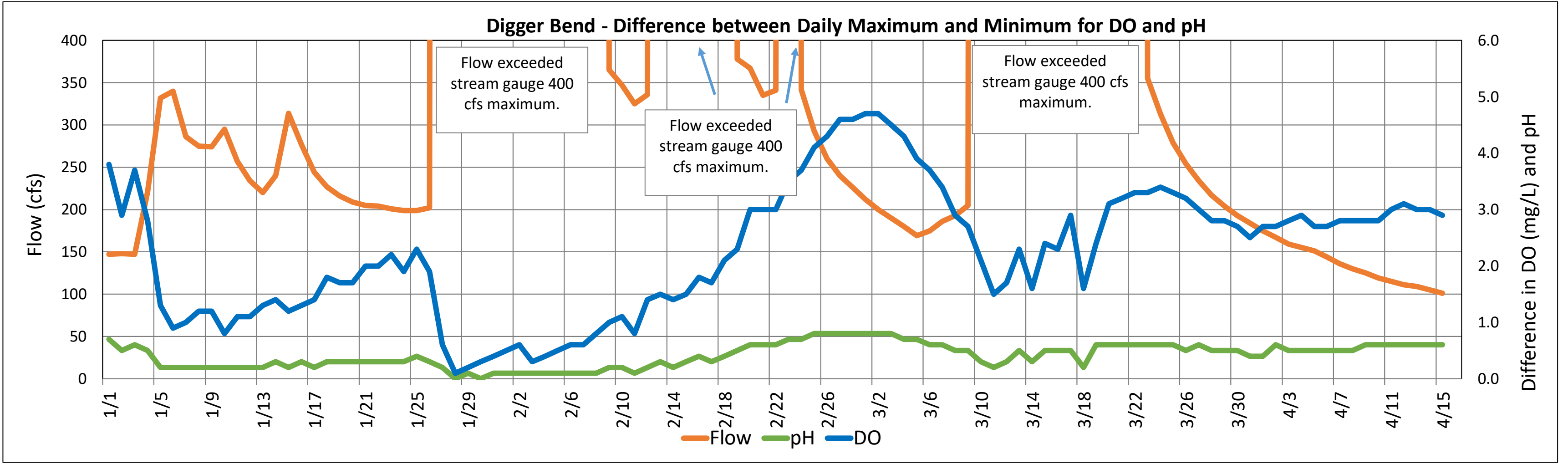
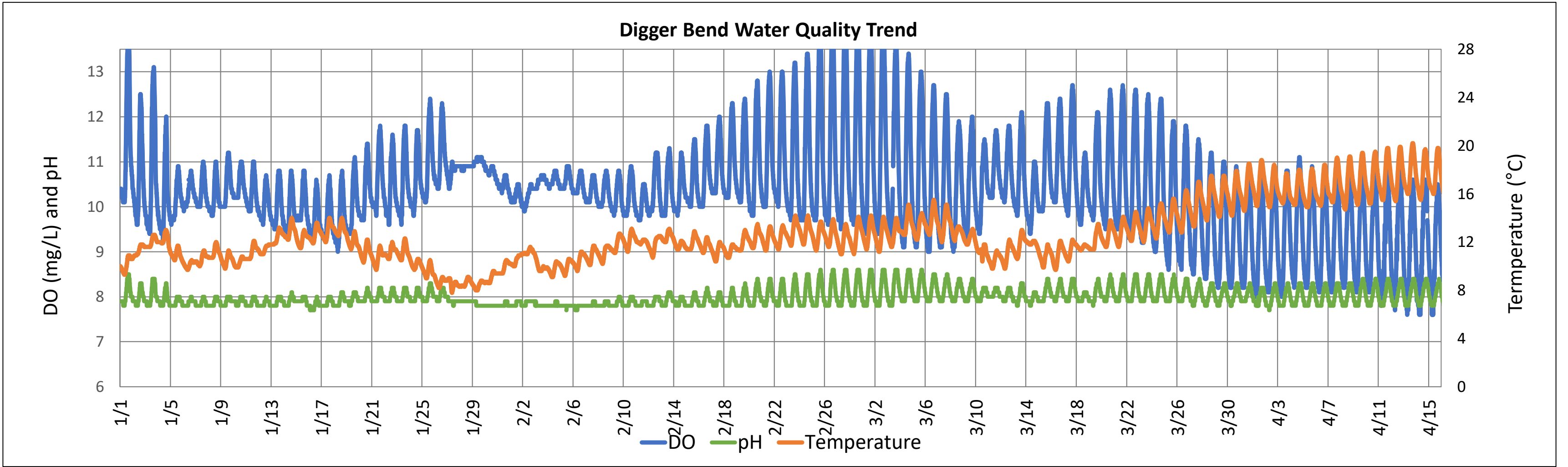


Jimtown Water Quality

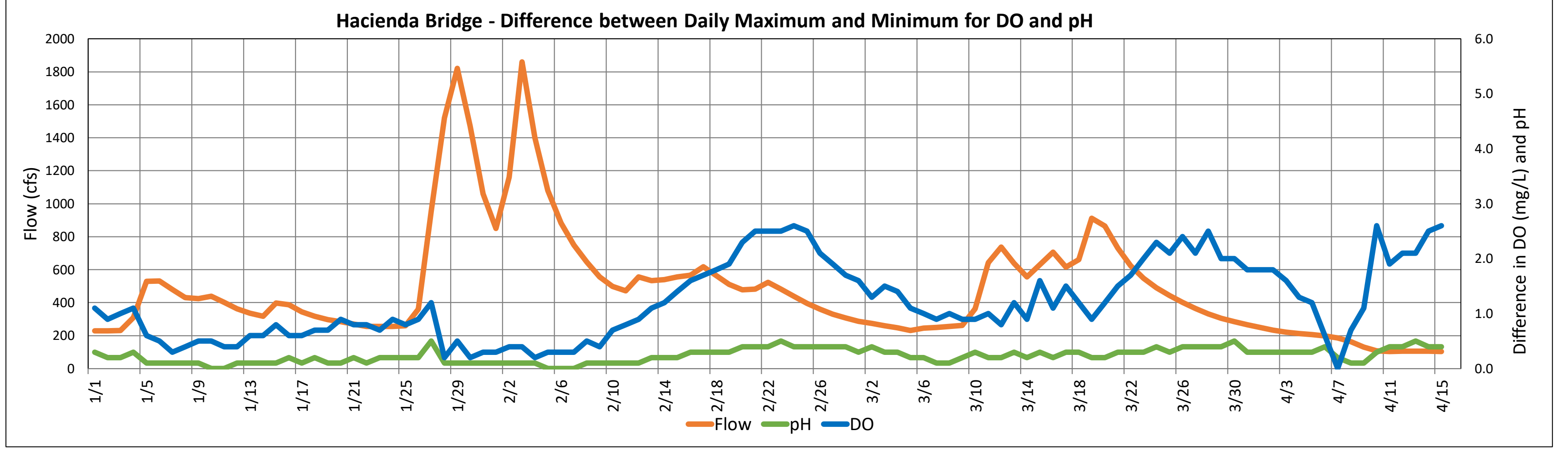
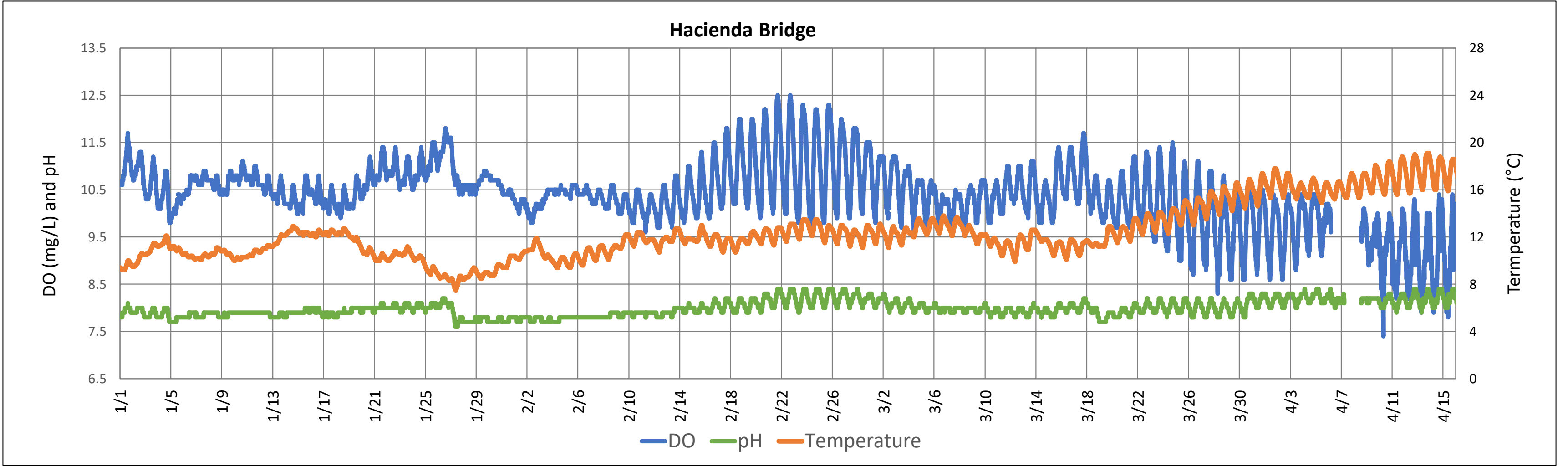


Russian River Water Quality (January 1 - April 15, 2021)

Digger Bend



Hacienda Bridge Water Quality



Russian River Fisheries Monitoring



Report on 4/15/21: Sonoma Water surveyed sites in the upper Russian River and in Dry Creek to collect information on spawning salmonids and their redds. In total 4 steelhead and 10 redds were observed in the upper reach of the Russian River. In the Alexander Valley reach of the Russian River 2 adult steelhead and no redds were observed. In Dry Creek, 11 adult steelhead and 2 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, 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	1/24/2021	Steelhead	661
West ladder	1/19/2021	Chinook	609
		Coho	316
		Unidentified Salmonid	64

Salmonid Redd and Spawner Survey

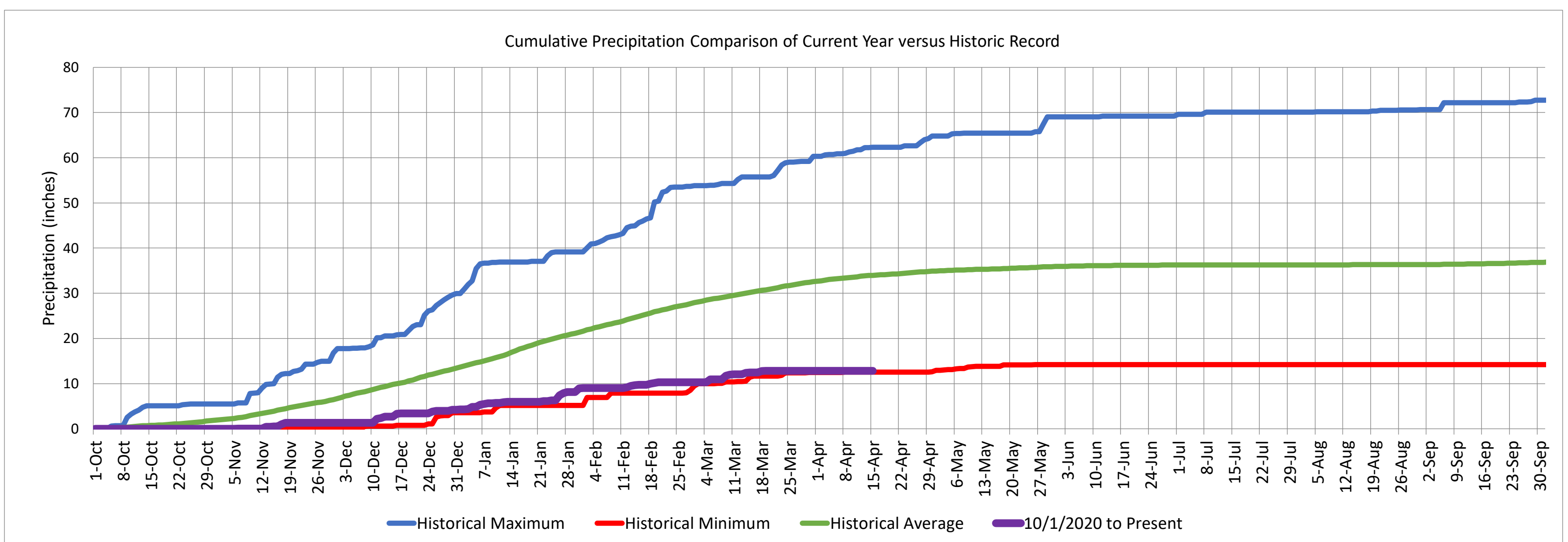
Tributary	Reach	Number of Trips to Date	Earliest Survey Date	Previous Week Survey	Recent Survey Date
Dry Creek	Dry Creek	7	2/7/2021	4/4/2021	4/11/2021
Russian River	Alexander Valley	6	2/14/2021	4/4/2021	4/12/2021
Russian River	Upper Mainstem	6	2/14/2021	4/4/2021	4/13/2021

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	17	0	8	11	0	2
Russian River	Alexander Valley	0	0	0	2	0	0
Russian River	Upper Mainstem	2	0	11	4	0	10

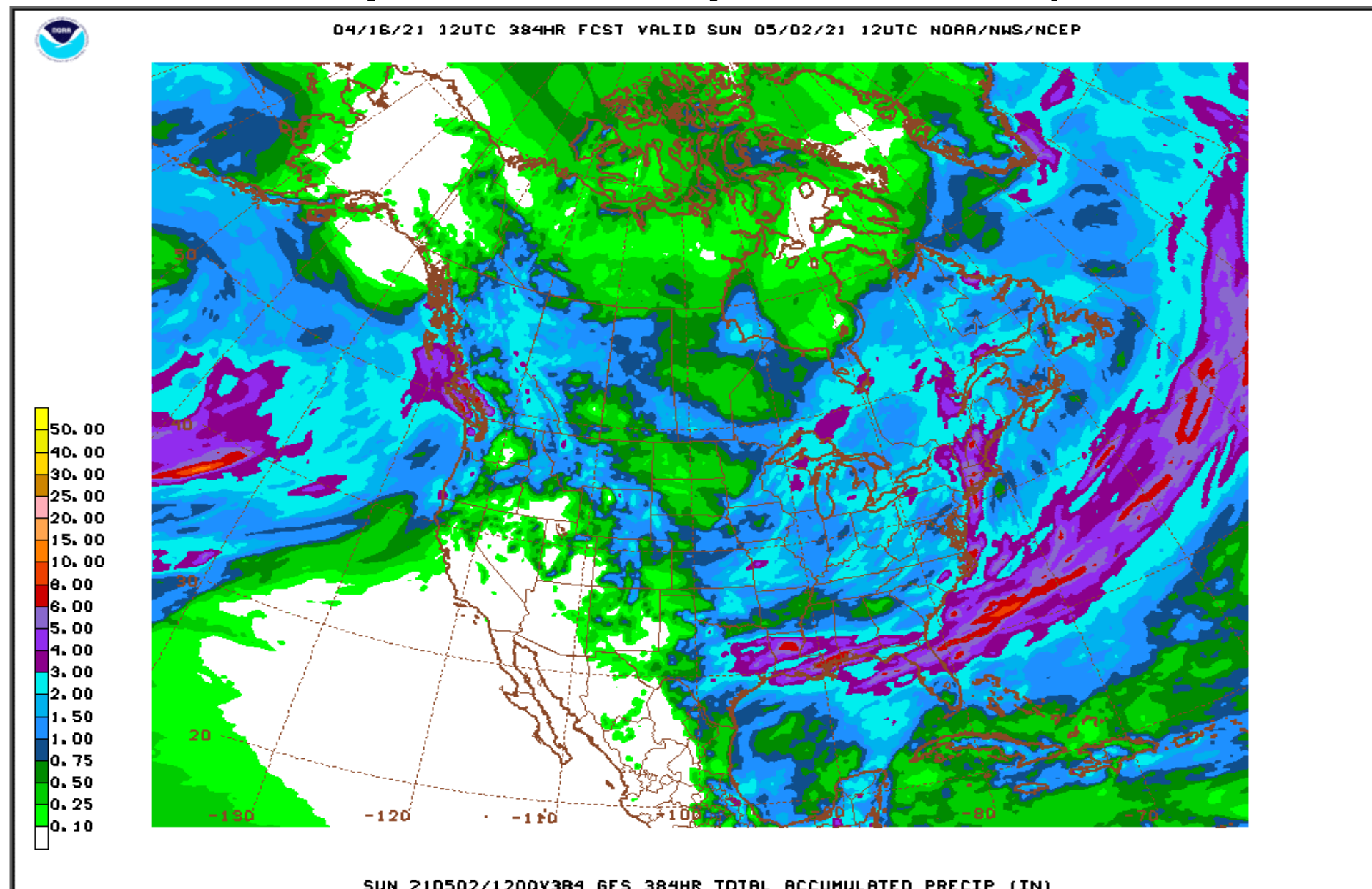
*Redd counts may include old redds that were observed in previous surveys.

Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2020 - Apr 15, 2021	12.83
Last 7 Days*	0.00



Global Forecast System Model 16-day Cumulative Precipitation Forecast



Date Range	Forecasted Cumulative (inches)
Apr 16 - May 1, 2021	0.1