



State Water Resources Control Board  
 Temporary Urgency Change Order (2/4/2021)  
 Russian River Hydrologic Report  
 March 19, 2021 - March 25, 2021

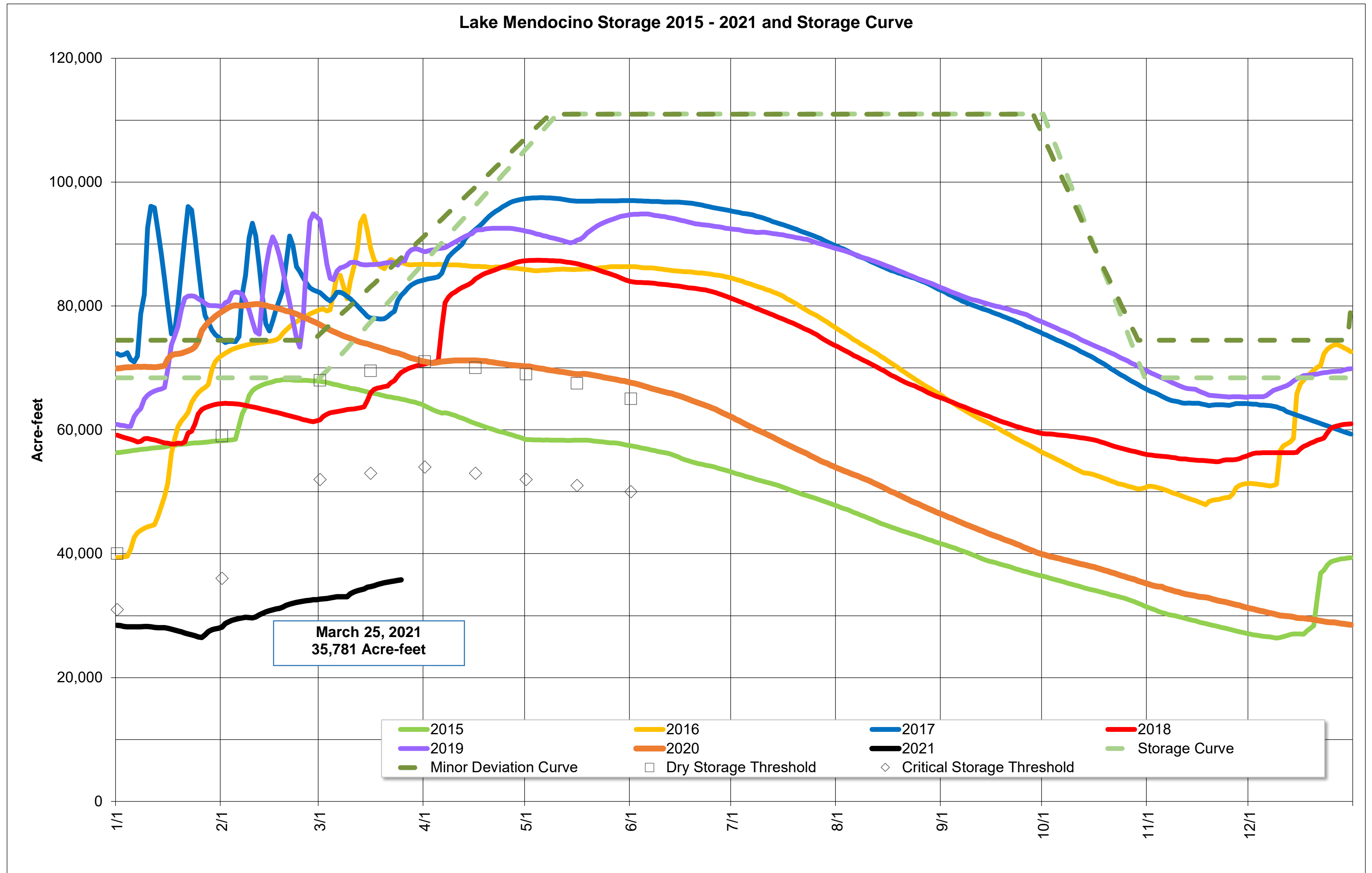
Prepared as a requirement of the Order approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A (Applications 12919A).

**Instream Flow Requirements as of March 25, 2021**

Basis	Reach	Instantaneous (cfs)
Modified Per Order: Critical Condition	Upper Russian River	25
D-1610: Dry Condition	Dry Creek	75
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**

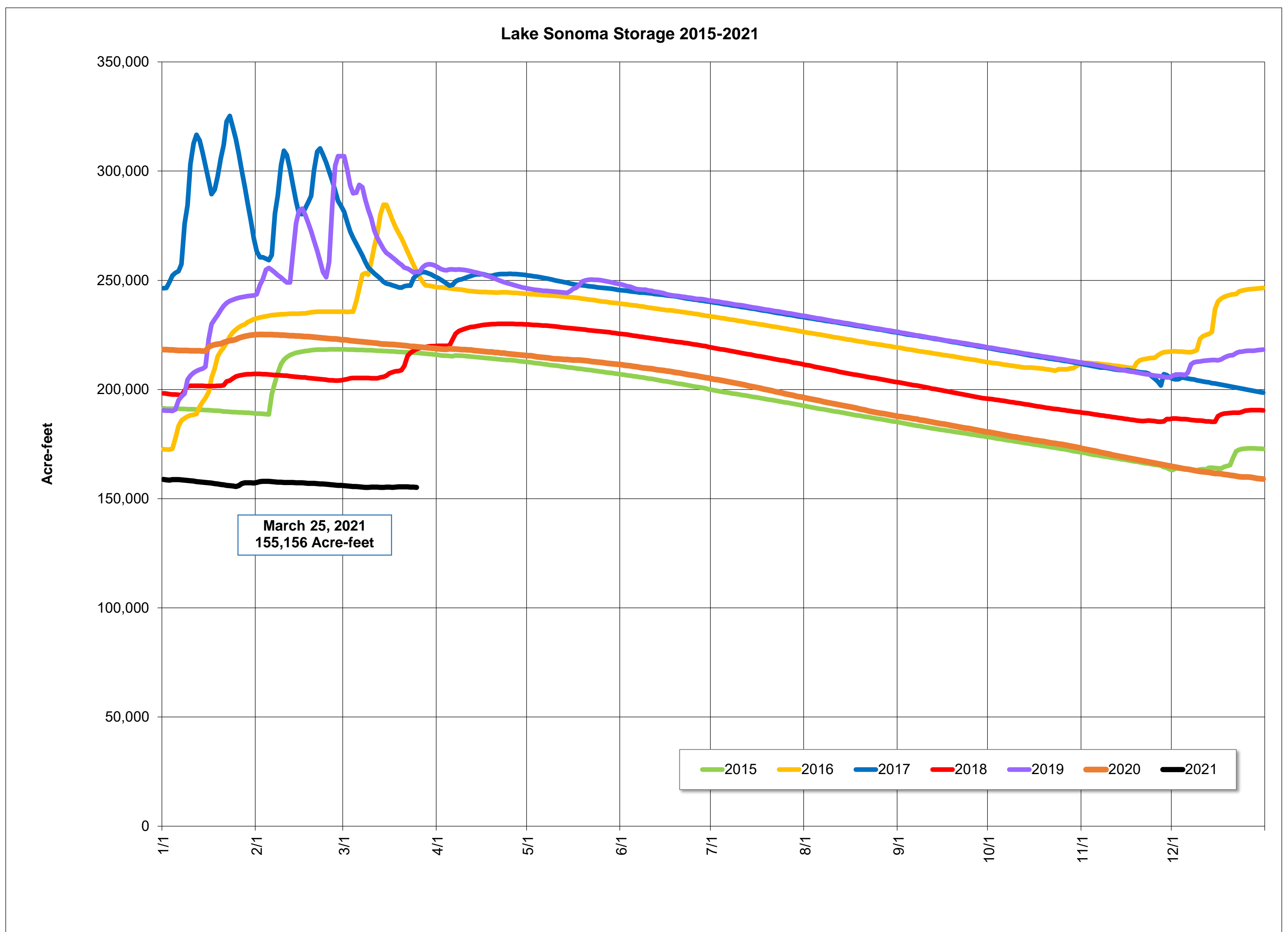


Storage (acre-feet)	March 25, 2021	<b>35,781</b>	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
	Last 7 days	<b>3,541</b>	<b>118</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>78</b>
		Max	<b>113</b>
		Mean	<b>91</b>
Release (cfs)	Last 7 days	Min	<b>21</b>
		Max	<b>28</b>
		Mean	<b>26</b>

# Lake Sonoma



Nathan Baskett, March 3, 2021



Storage (acre-feet)	March 25, 2021	155,156	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
		-1,440	-48
	Last 7 days	-174	-25
Daily Inflow (cfs)	Last 7 days	Min	32
		Max	146
		Mean	78
Release (cfs)	Last 7 days	Min	75
		Max	78
		Mean	76

### Potter Valley Project

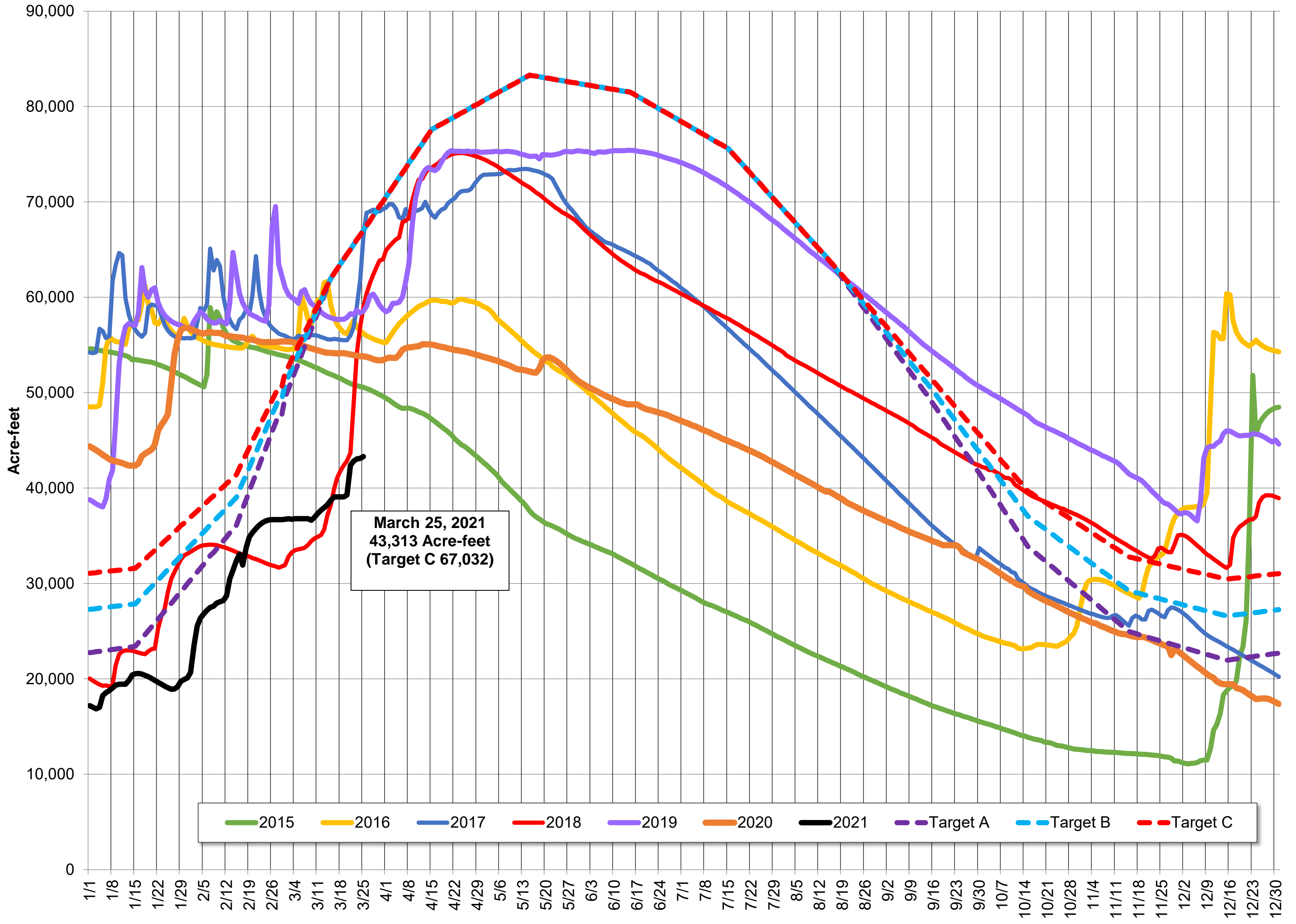
PVP Diversion (cfs)	March 25, 2021	46
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### Lake Pillsbury

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2020 - March 25, 2021	70,276	402
	Last 7 days	7,691	1,099

\*Inflow calculation based on criteria established in D1610

Lake Pillsbury Storage 2015-2021 and Target Storage Scenarios

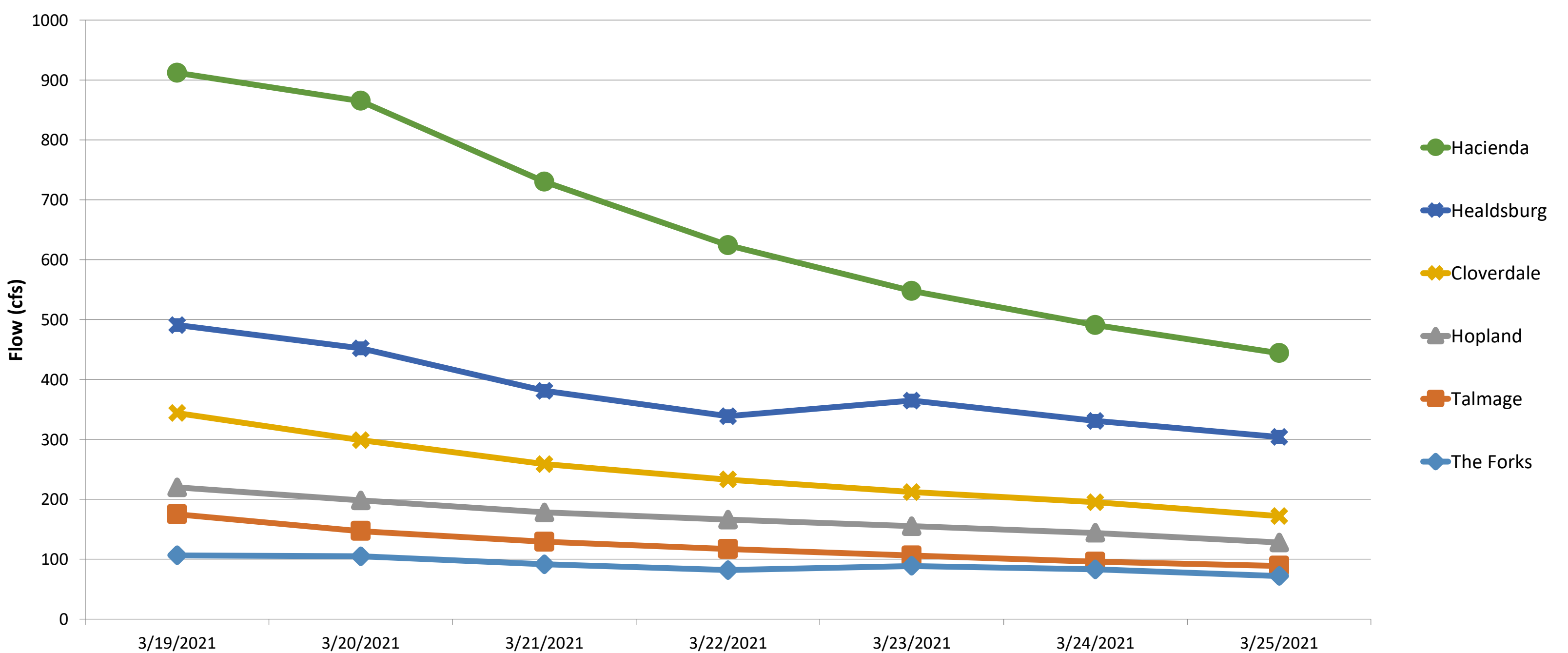


Russian River Flows (March 19 - March 25, 2021)

Gage	24-hr Average Flow (cfs)						
	Mar 19, 2021	Mar 20, 2021	Mar 21, 2021	Mar 22, 2021	Mar 23, 2021	Mar 24, 2021	Mar 25, 2021
The Forks*	106	105	92	82	89	83	72
Talmage USGS 11462080	175	147	129	117	106	96	89
Hopland USGS 11462500	220	198	178	166	155	144	128
Cloverdale USGS 11463000	344	299	259	233	212	195	172
Healdsburg USGS 11464000	491	452	381	339	365	331	304
Hacienda USGS 11467000	912	865	730	624	548	491	444

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

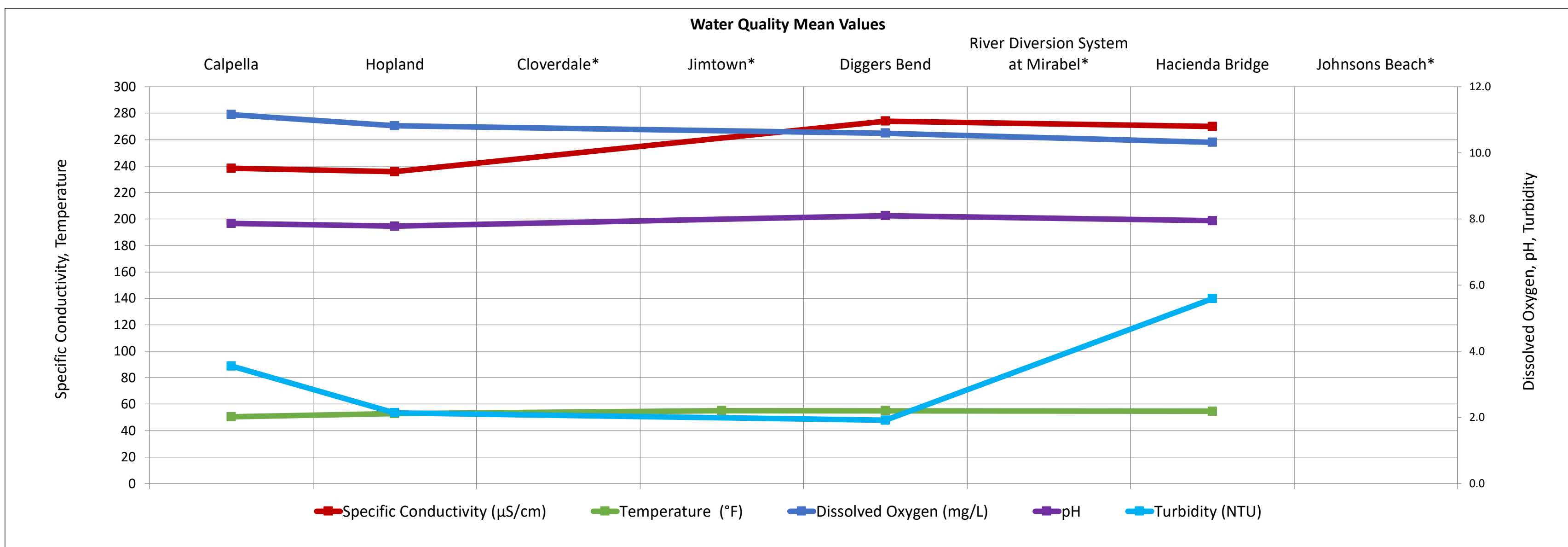
Russian River Flows



### Russian River Water Quality (March 19 - March 25, 2021)

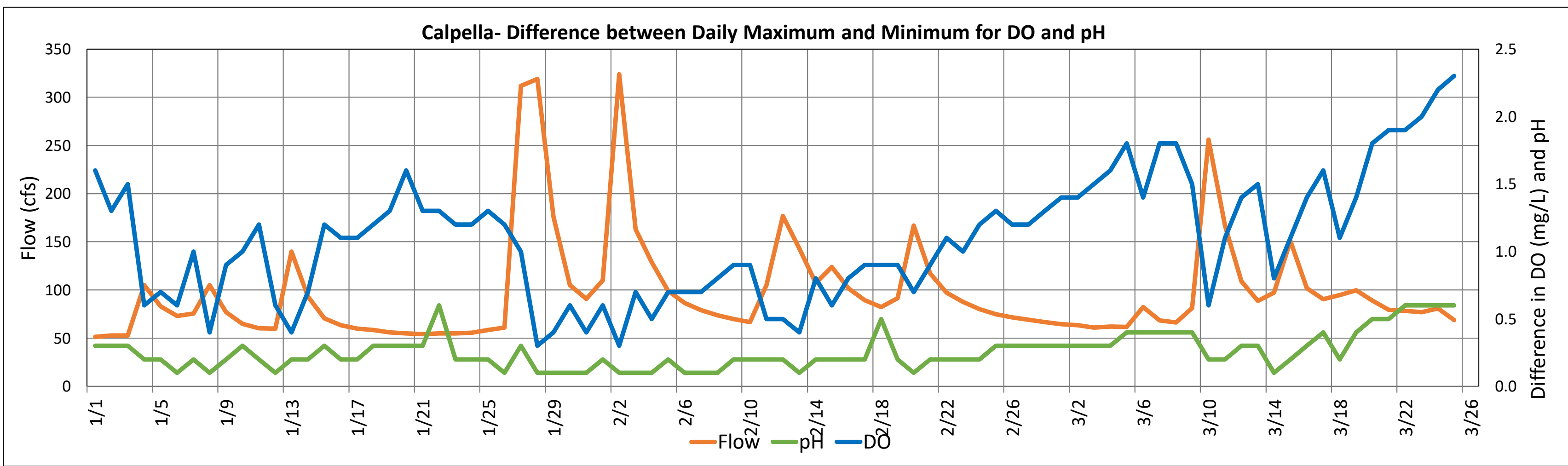
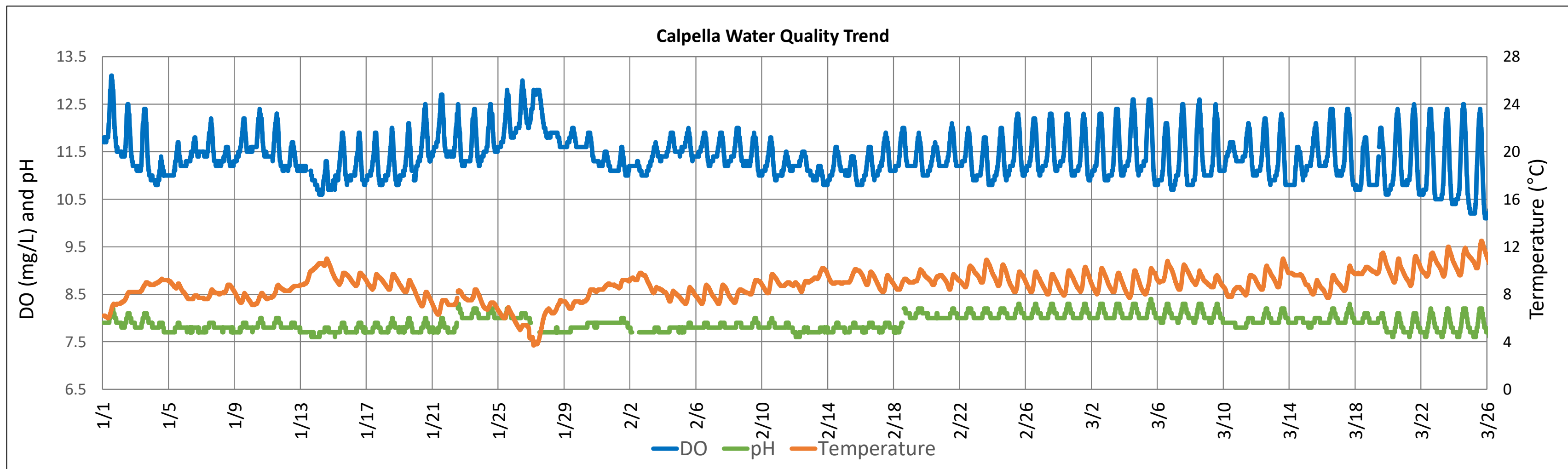
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463200	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	47.7	50.4		52.2	52.3		52.2	
	Max	53.6	56.7		59.2	59.4		57.9	
	Mean	50.5	52.9		55.1	55.0		54.7	
Specific Conductivity (µS/cm)	Min	233	221			263		244	
	Max	242	253			293		288	
	Mean	238	236			274		270	
Dissolved Oxygen (mg/L)	Min	10.3	9.2			9.0		9.2	
	Max	12.5	13.4			12.7		11.5	
	Mean	11.2	10.8			10.6		10.3	
Dissolved Oxygen (% Saturation)	Min	87	81			82		83	
	Max	116	127			126		112	
	Mean	99	98			98		96	
pH	Min	7.6	7.4			7.8		7.7	
	Max	8.2	8.4			8.5		8.2	
	Mean	7.9	7.8			8.1		7.9	
Turbidity (NTU)	Min	1.0	0.7			0.6		2.1	
	Max	16.9	5.2			6.4		14.2	
	Mean	3.6	2.1			1.9		5.6	

\*Station operated seasonally



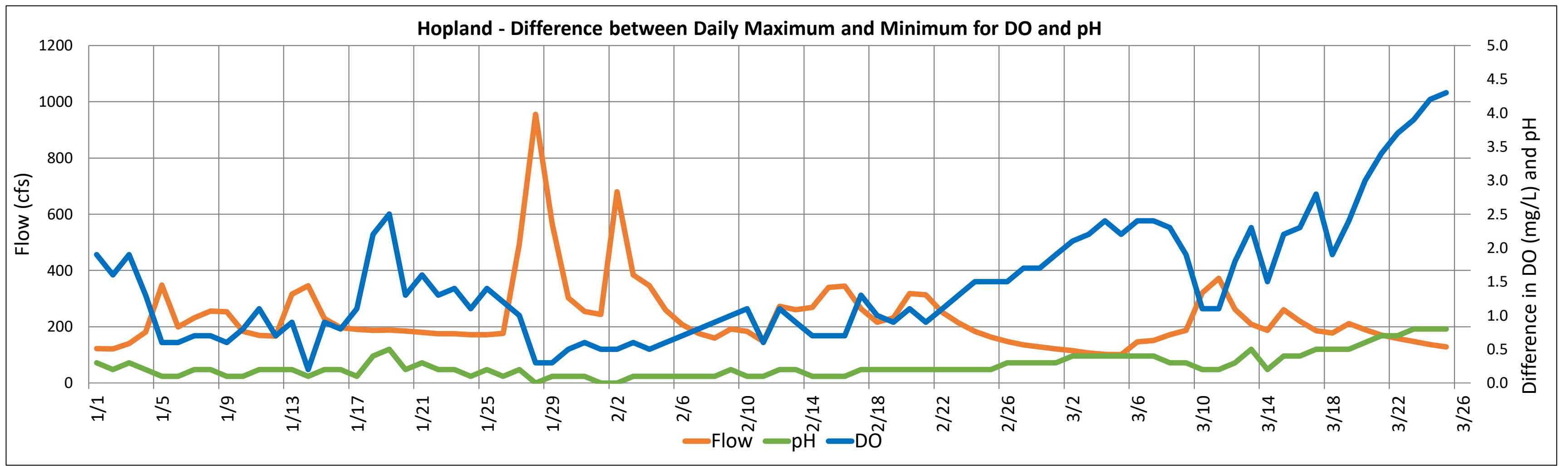
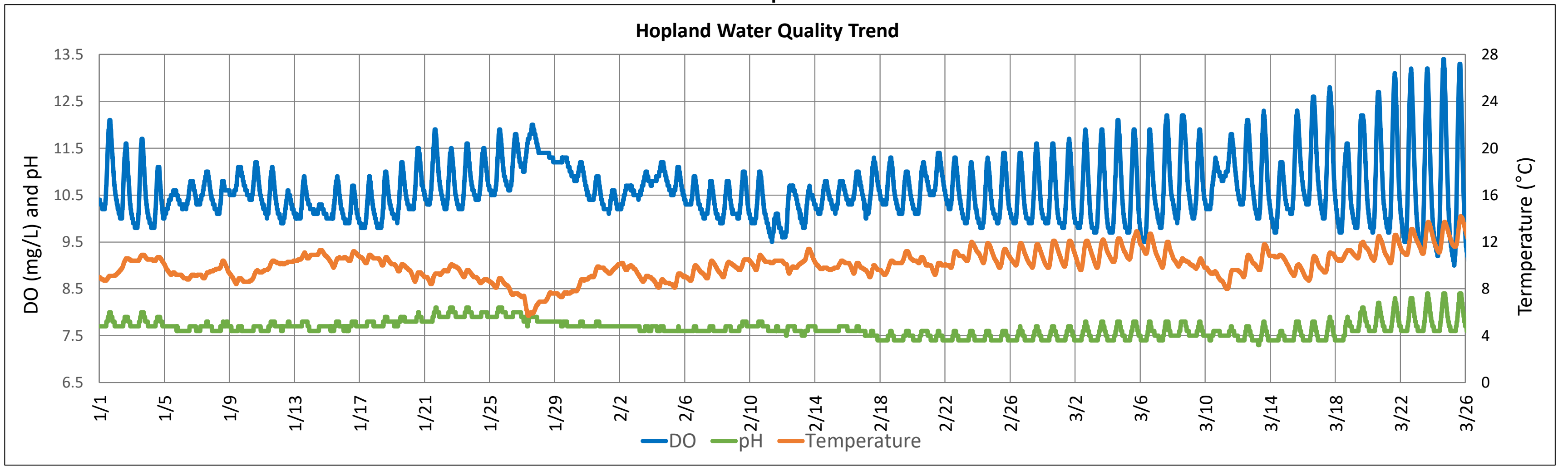
### Russian River Water Quality (January 1 - March 25, 2021)

#### Calpella (East Fork Russian River)

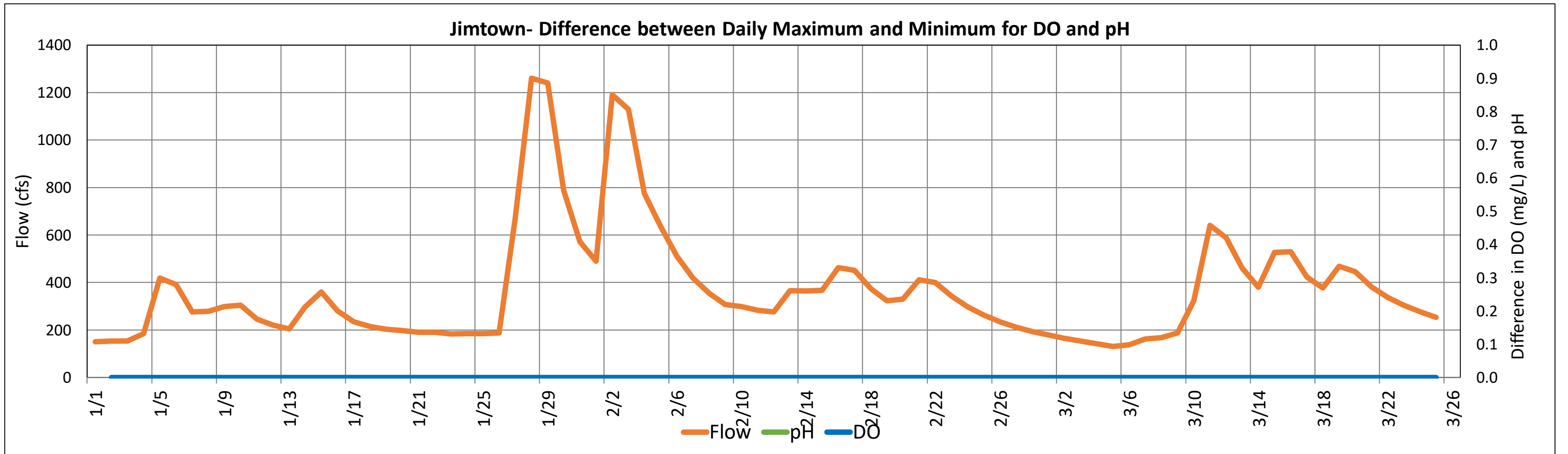
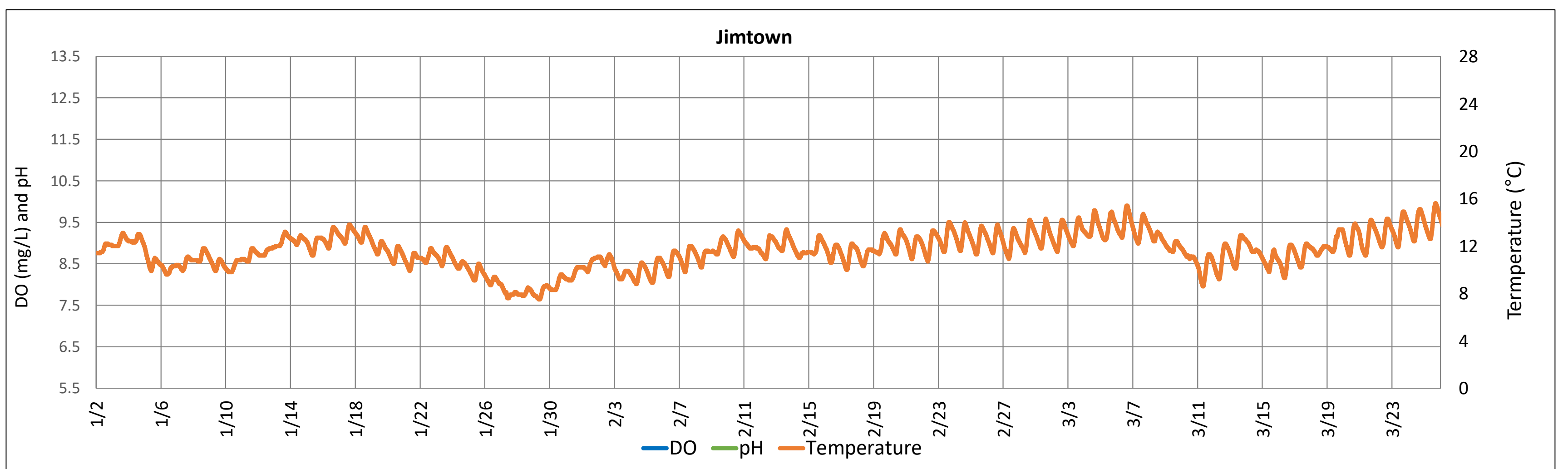


# Russian River Water Quality (January 1 - March 25, 2021)

## Hopland

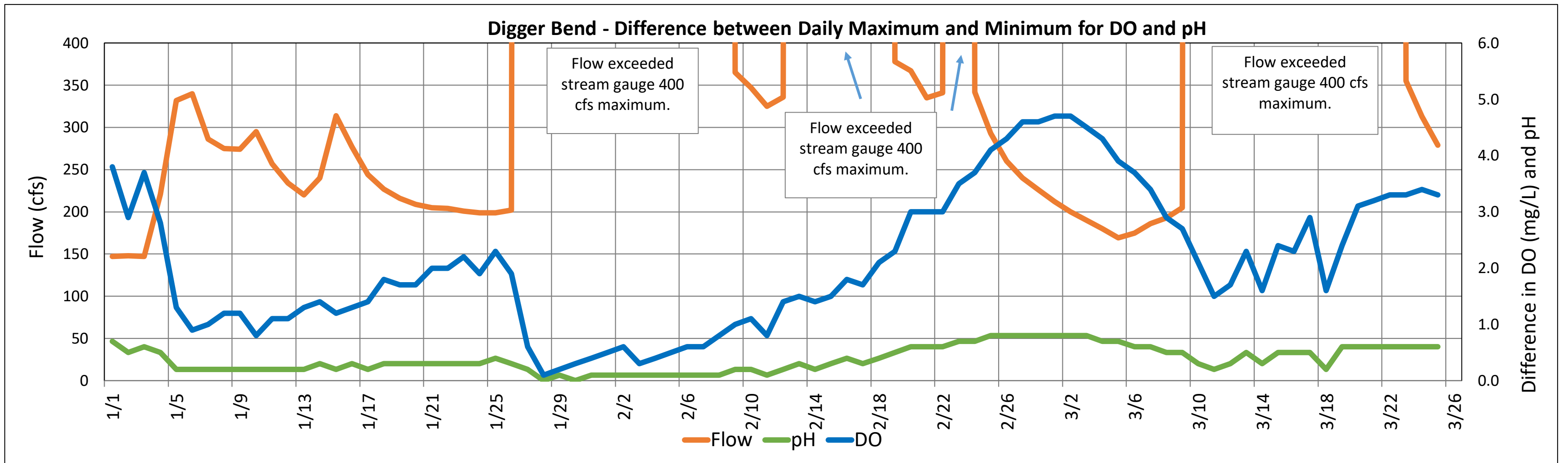
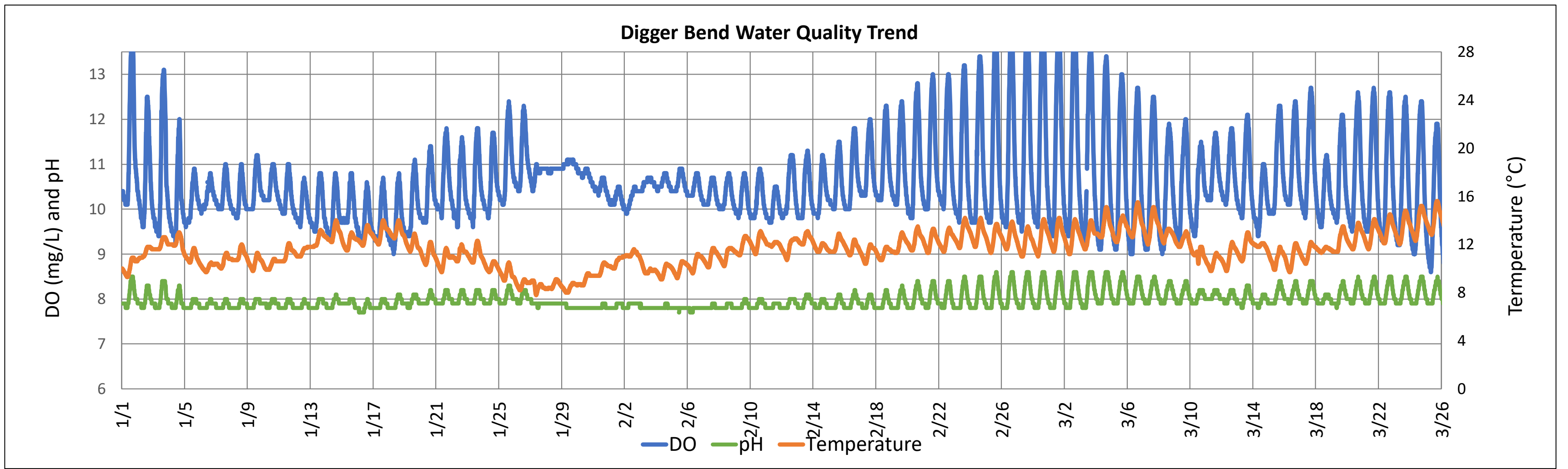


## Jimtown Water Quality

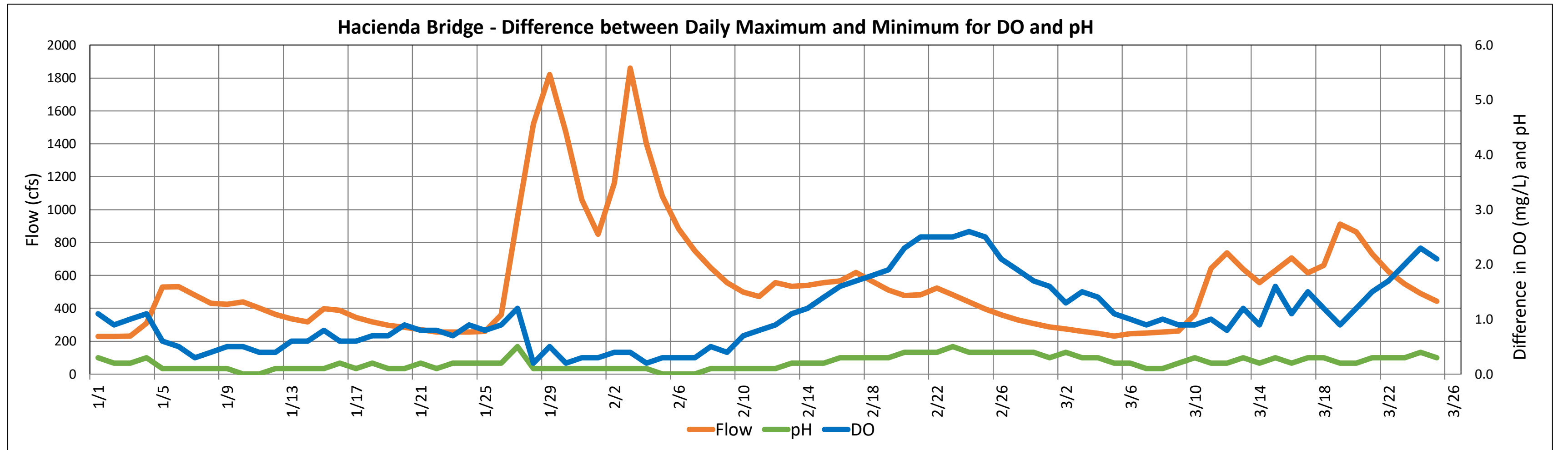
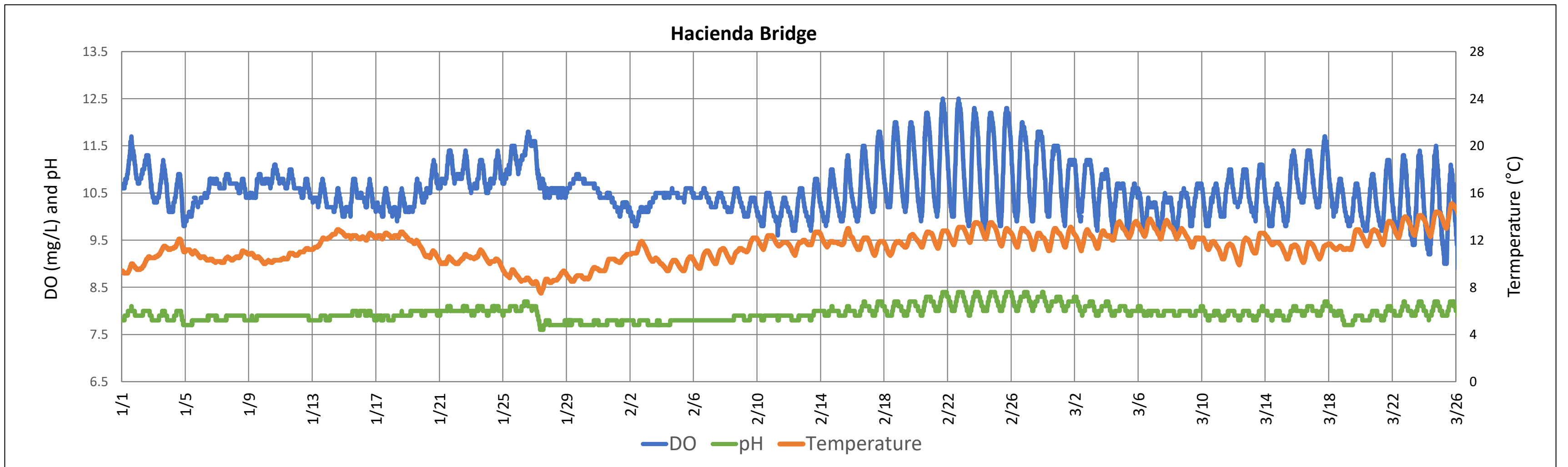


# Russian River Water Quality (January 1 - March 25, 2021)

## Digger Bend



## Hacienda Bridge Water Quality



## Russian River Fisheries Monitoring



**Report on 3/25/21:** Sonoma Water surveyed sites in the upper Russian River and in Dry Creek to collect information on spawning salmonids and their redds. In total 7 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, 32 adult steelhead, and 4 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

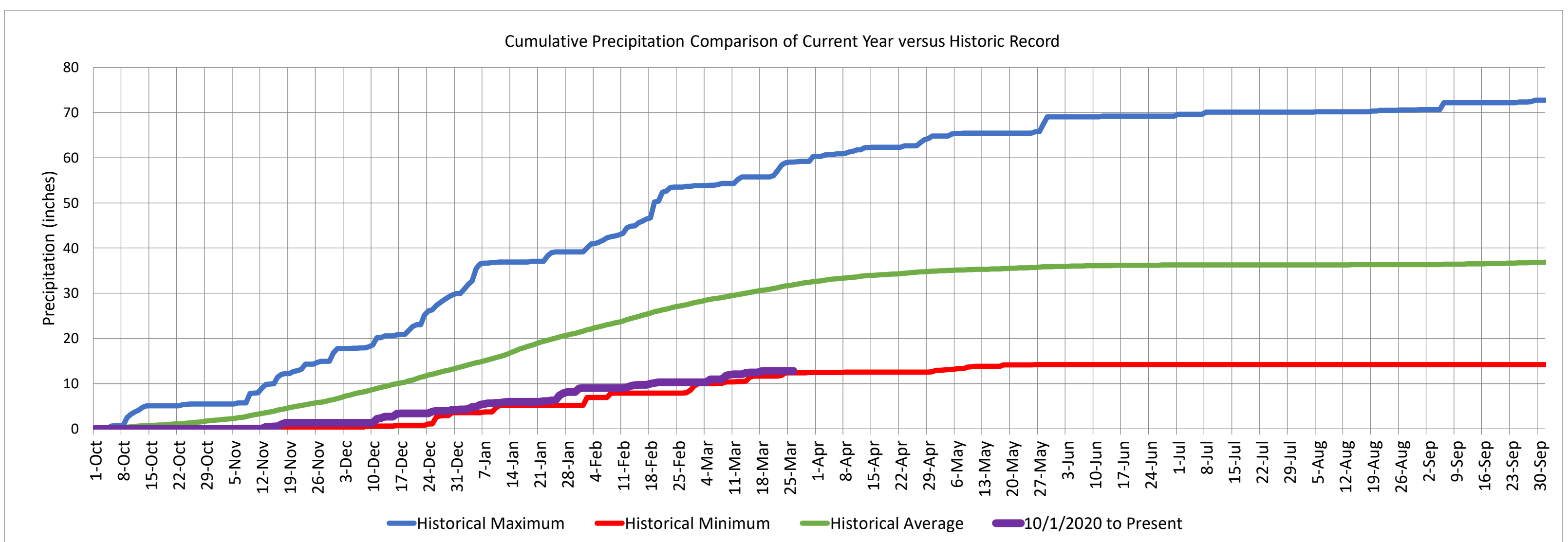
Tributary	Reach	Number of Trips to Date	Earliest Survey Date	Previous Week Survey	Recent Survey Date
Dry Creek	Dry Creek	7	2/7/2021	3/14/2021	3/21/2021
Russian River	Alexander Valley	6	2/14/2021	3/14/2021	3/21/2021
Russian River	Upper Mainstem	6	2/14/2021	3/14/2021	3/21/2021

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	14	22	12	32	0	4
Russian River	Alexander Valley	0	0	0	0	0	2
Russian River	Upper Mainstem	0	0	0	0	0	7

\*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 - Mar 25, 2021	<b>12.83</b>
Last 7 Days*	<b>0.06</b>



### Global Forecast System Model 16-day Cumulative Precipitation Forecast

