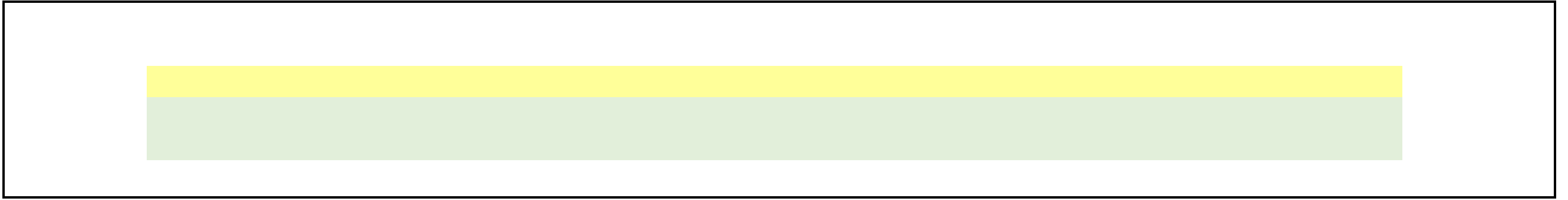




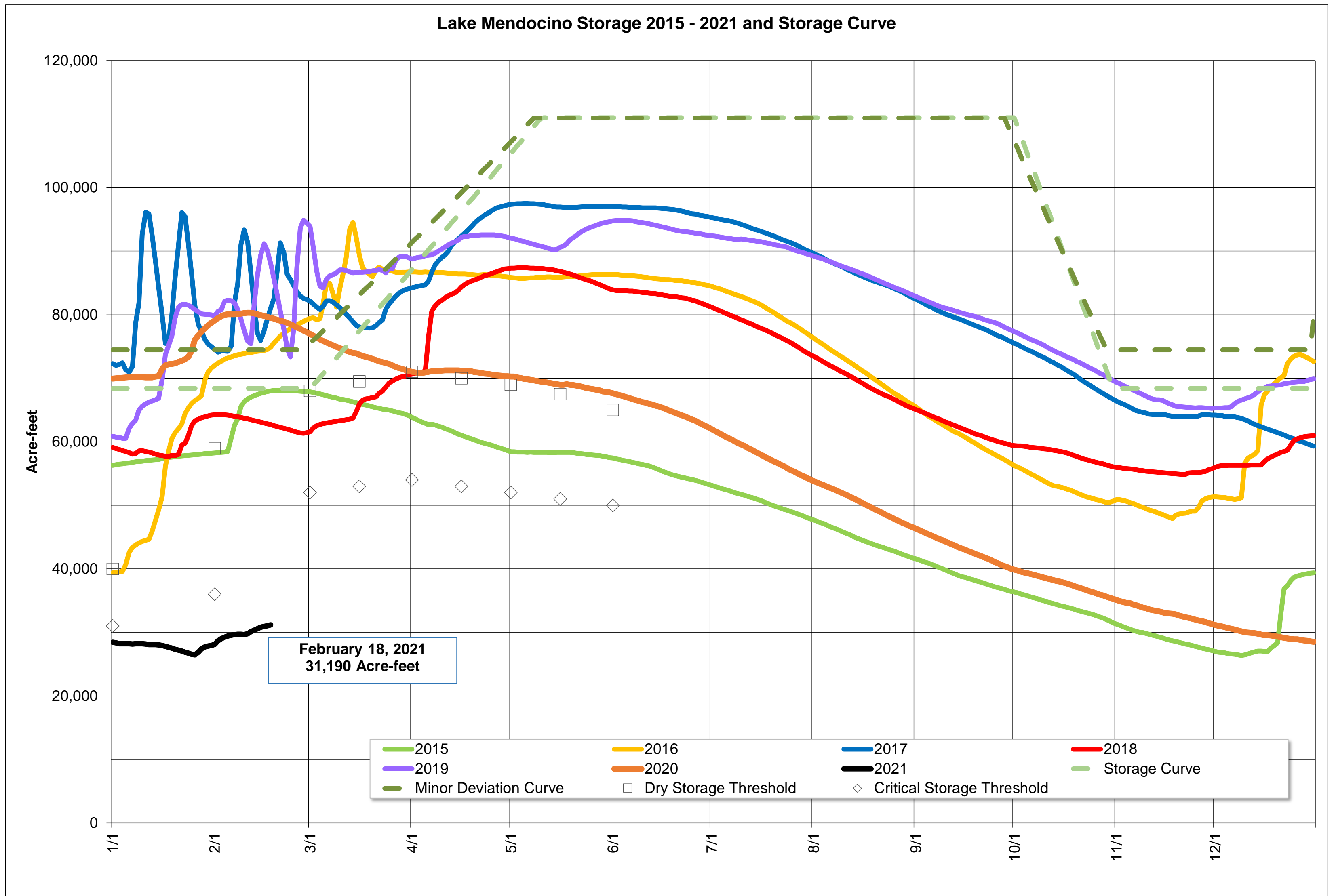
**State Water Resources Control Board
 Temporary Urgency Change Order (2/4/2021)
 Russian River Hydrologic Report
 February 11, 2021 - February 18, 2021**

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



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)	February 18, 2021	31,190	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	1,001	33
	Last 7 days	1,391	199
Daily Inflow (cfs)	Last 7 days	Min	92
		Max	194
		Mean	134
Release (cfs)	Last 7 days	Min	29
		Max	75
		Mean	35

Release Flow Change Ramping Rates : Approved Adjusted Rates Event

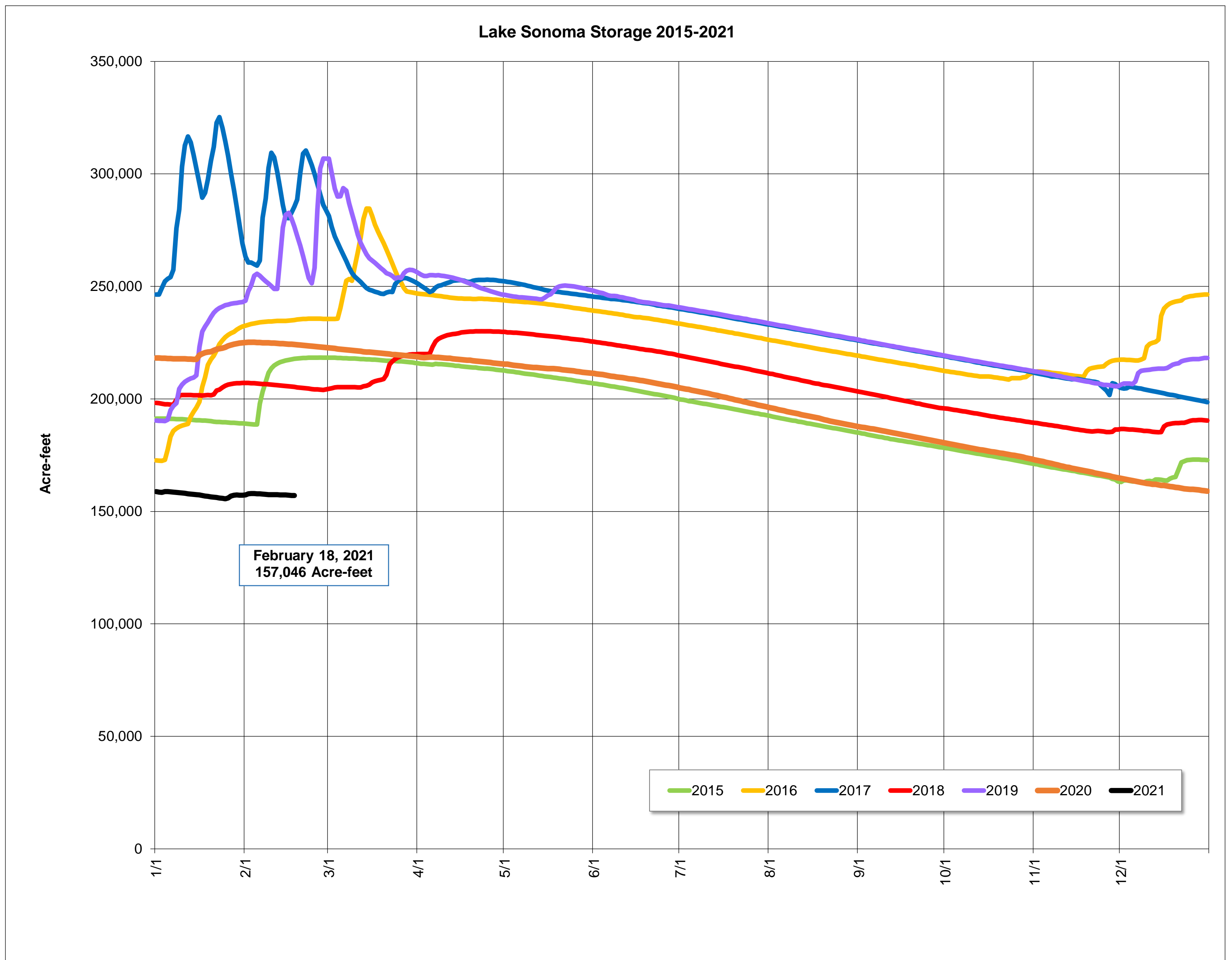
Requested: 2/8/2021

Purpose: California Department of Fish and Wildlife (CDFW) requested Sonoma Water for an increase in discharge from Coyote Valley Dam to facilitate the release of steelhead smolts from the Coyote Valley Fish Facility. The increase in discharge is necessary to volitionally push the smolts out into the river to reduce the risk of predation.

Consultation: Ramping rate schedule below was agreed upon in Feb 3rd meeting of Sonoma Water staff with CDFW and National Marine Fisheries Service staff.

Date	Time	(cfs)	(cfs)
8-Feb	12:00 PM	+75	100
10-Feb	12:00 PM	-25	75
10-Feb	8:00 PM	-25	50
11-Feb	4:00 AM	-25	25

Lake Sonoma



Storage (acre-feet)	February 18, 2021	157,046	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	-12,020	-401
	Last 7 days	-391	-56
Daily Inflow (acre-feet)	Last 7 days	Min	58
		Max	191
		Mean	110
Release (cfs)	Last 7 days	Min	75
		Max	76
		Mean	75

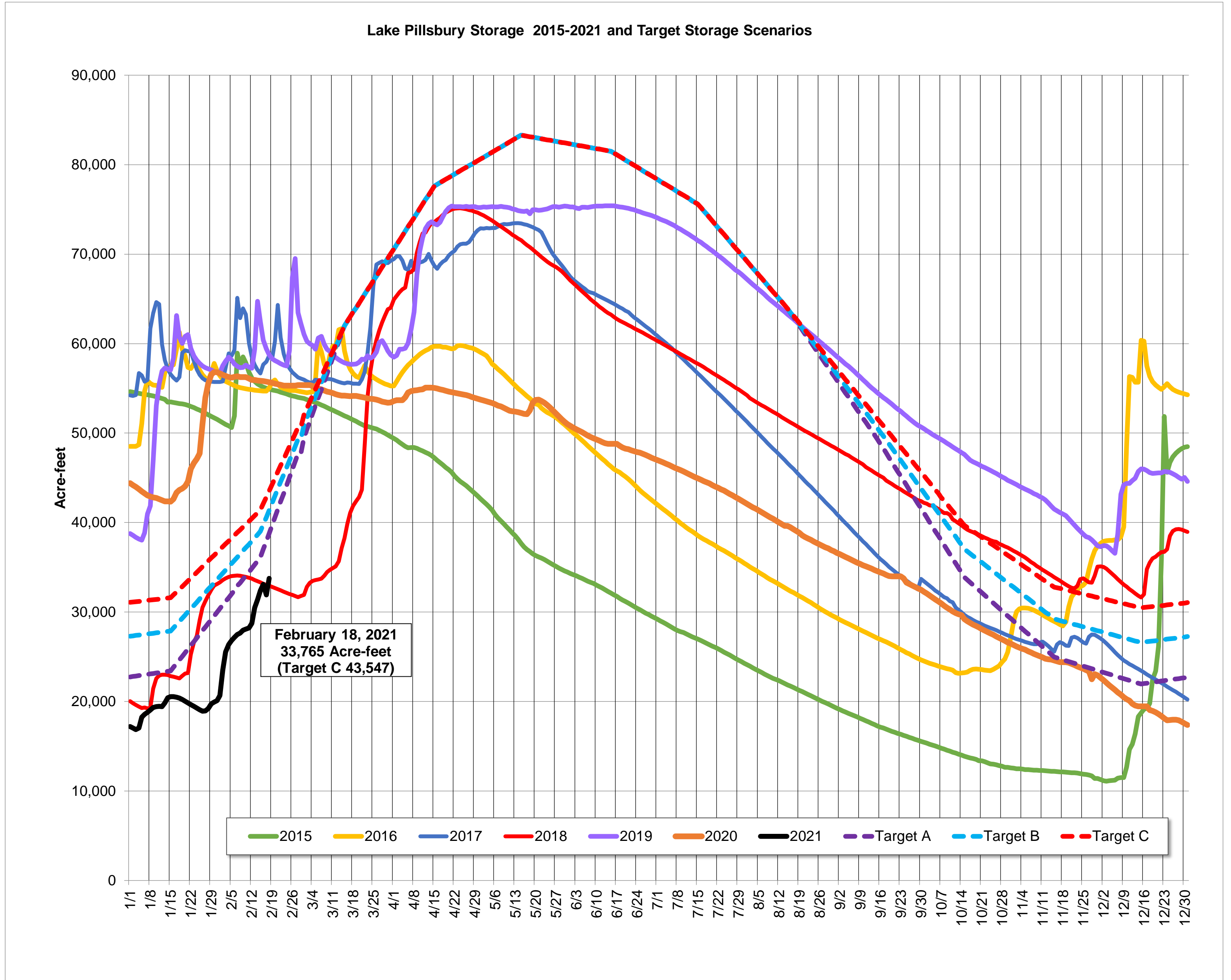
Potter Valley Project

PVP Diversion (cfs)	February 18, 2021	47
---------------------	-------------------	----

Lake Pillsbury

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2020 - February 18, 2021	43,998	314
	Last 7 days	7,521	1,074

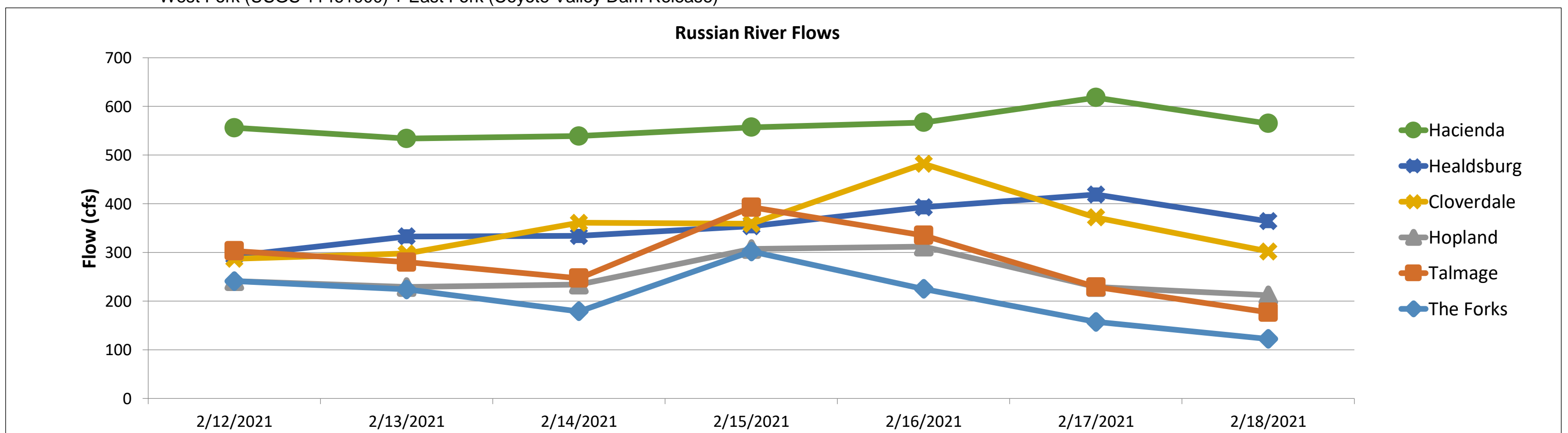
*Inflow calculation based on criteria established in D1610



Russian River Flows (February 11 - February 18, 2021)

Gage	24-hr Average Flow (cfs)						
	Feb 12, 2021	Feb 13, 2021	Feb 14, 2021	Feb 15, 2021	Feb 16, 2021	Feb 17, 2021	Feb 18, 2021
The Forks*	241	224	179	302	225	157	122
Talmage USGS 11462080	303	280	247	393	335	229	177
Hopland USGS 11462500	241	229	234	307	312	229	212
Cloverdale USGS 11463000	287	298	361	359	482	372	302
Healdsburg USGS 11464000	293	333	334	354	393	419	364
Hacienda USGS 11467000	556	534	539	557	567	618	565

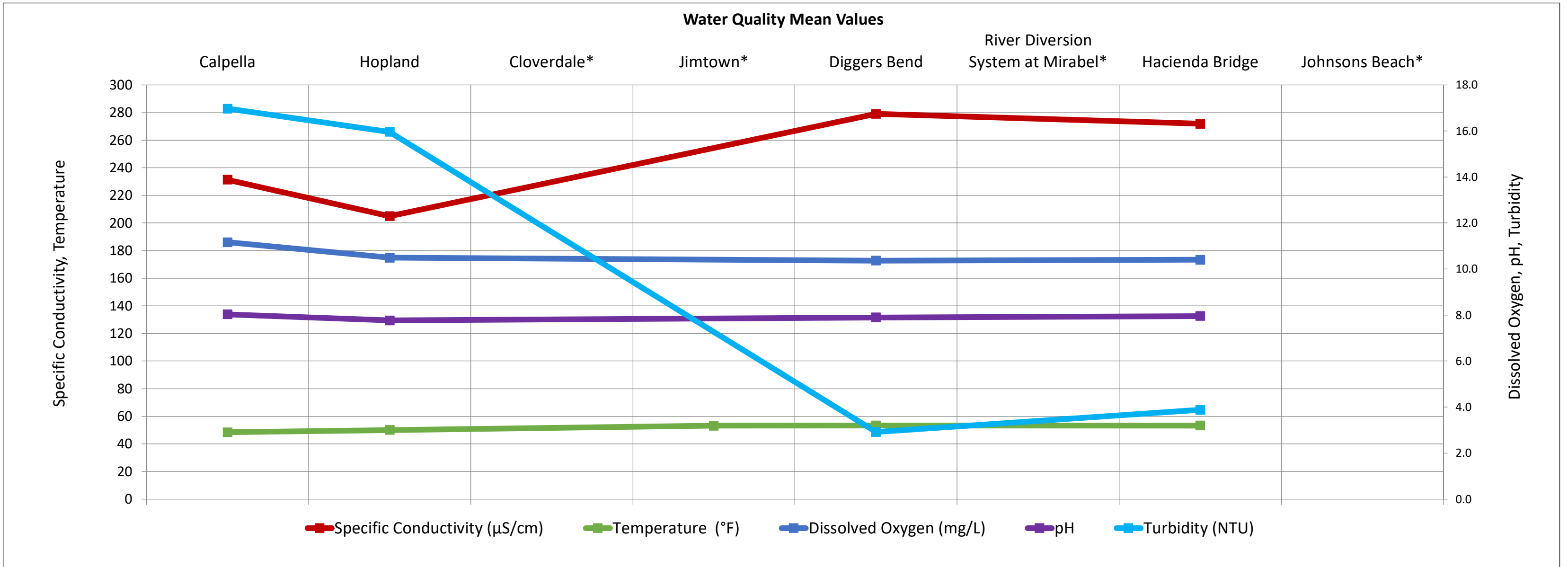
*West Fork (USGS 11461000) + East Fork (Coyote Valley Dam Release)



Russian River Water Quality (February 11 - February 18, 2021)

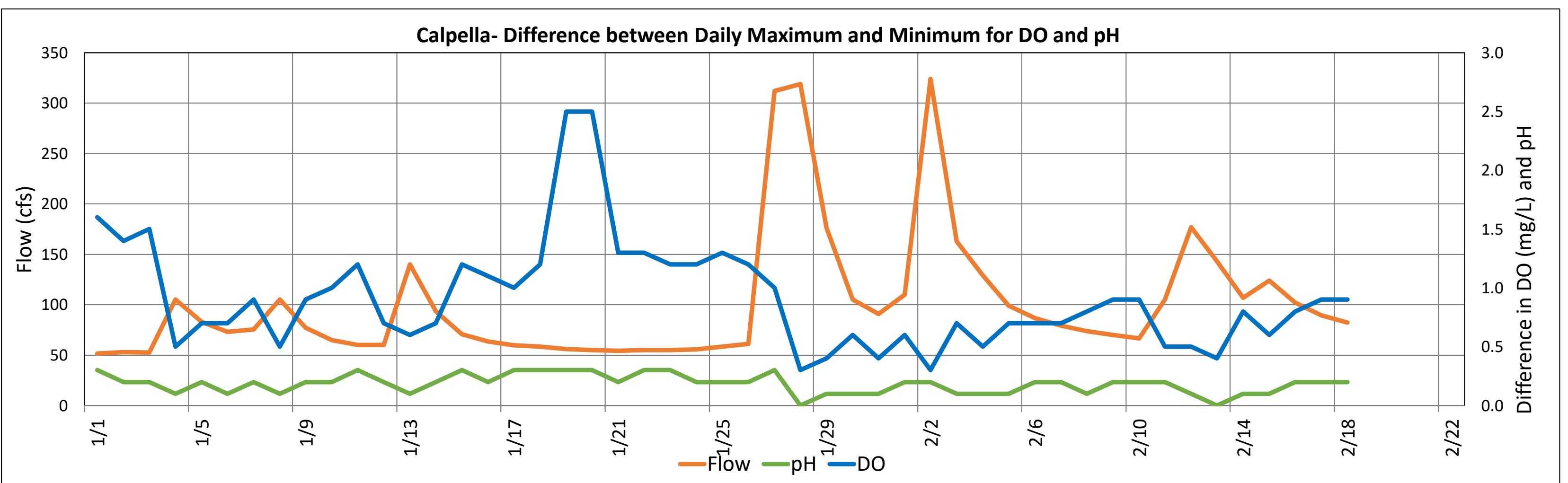
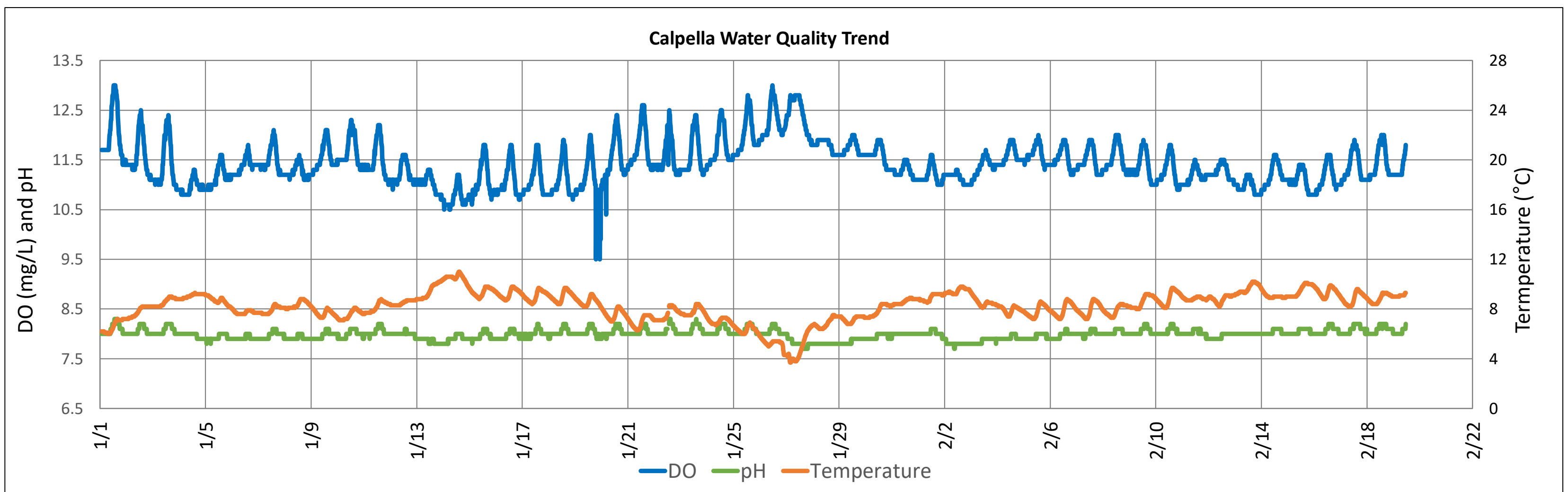
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463200	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	46.8	48.2		50.0	50.7		51.3	
	Max	50.4	52.5		56.1	55.6		55.4	
	Mean	48.5	50.0		53.2	53.3		53.3	
Specific Conductivity (µS/cm)	Min	201	160			236		250	
	Max	253	267			305		300	
	Mean	231	205			279		272	
Dissolved Oxygen (mg/L)	Min	10.8	9.3			9.7		9.6	
	Max	11.9	11.6			11.8		11.8	
	Mean	11.2	10.5			10.4		10.4	
Dissolved Oxygen (% Saturation)	Min	91	80			86		85	
	Max	105	105			112		112	
	Mean	97	93			94		94	
pH	Min	7.9	7.4			7.8		7.8	
	Max	8.2	7.9			8.2		8.2	
	Mean	8.0	7.8			7.9		8.0	
Turbidity (NTU)	Min	9.7	3.5			1.3		2.3	
	Max	59.6	57.5			5.5		6.3	
	Mean	17.0	16.0			2.9		3.9	

*Station operated seasonally



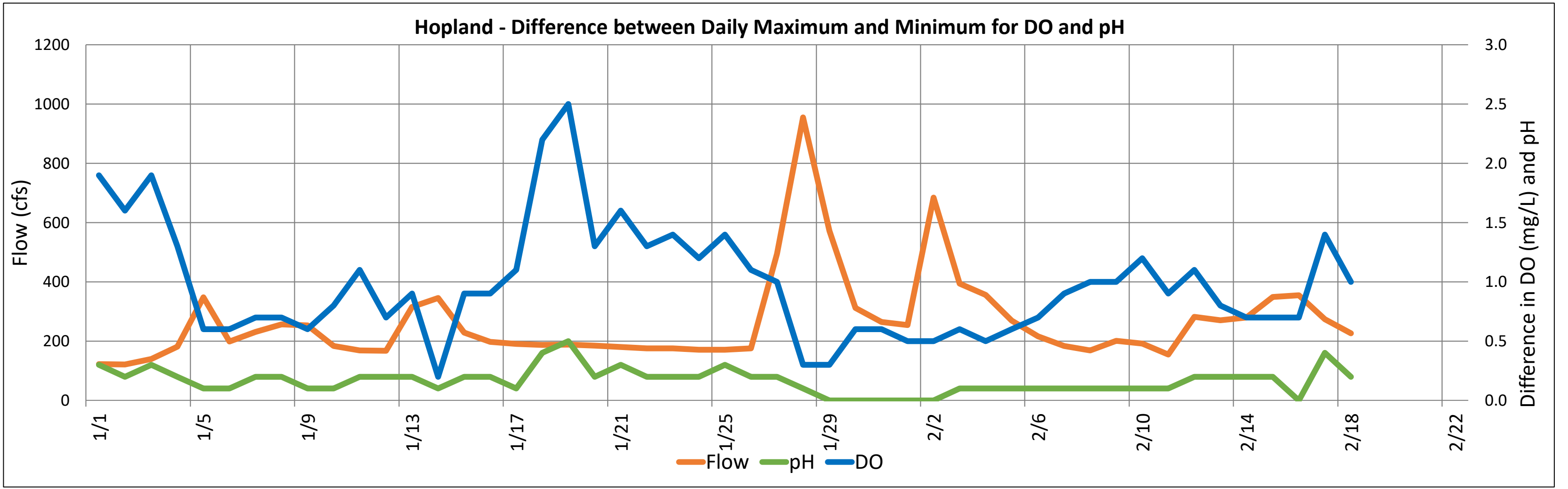
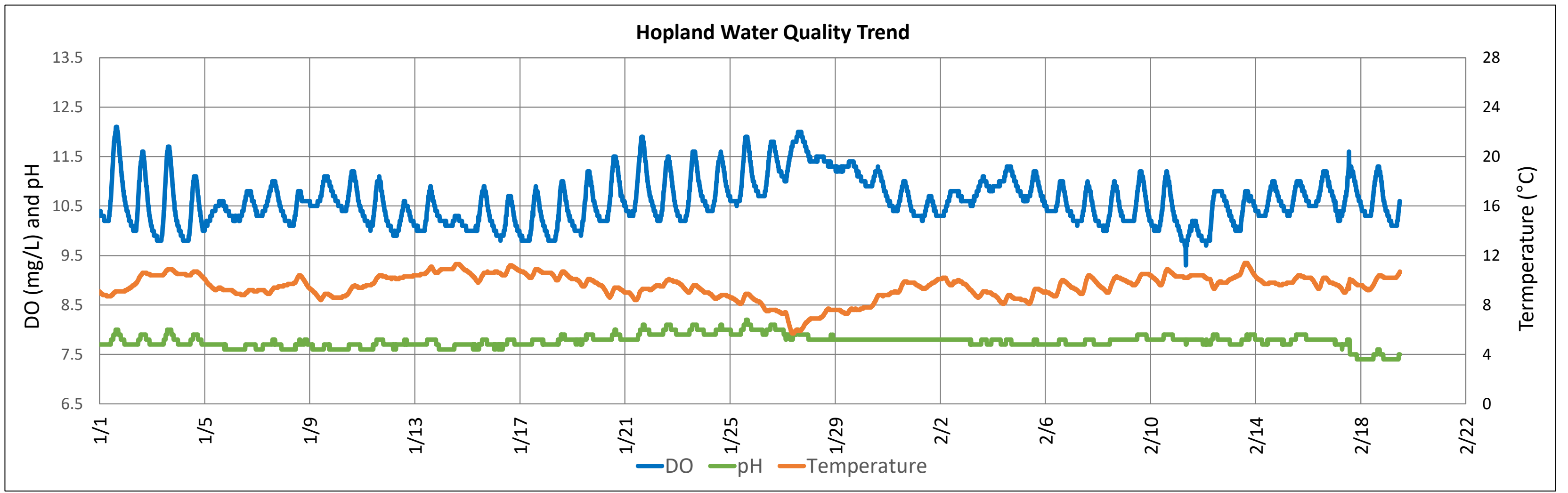
Russian River Water Quality (January 1 - February 18, 2021)

Calpella (East Fork Russian River)

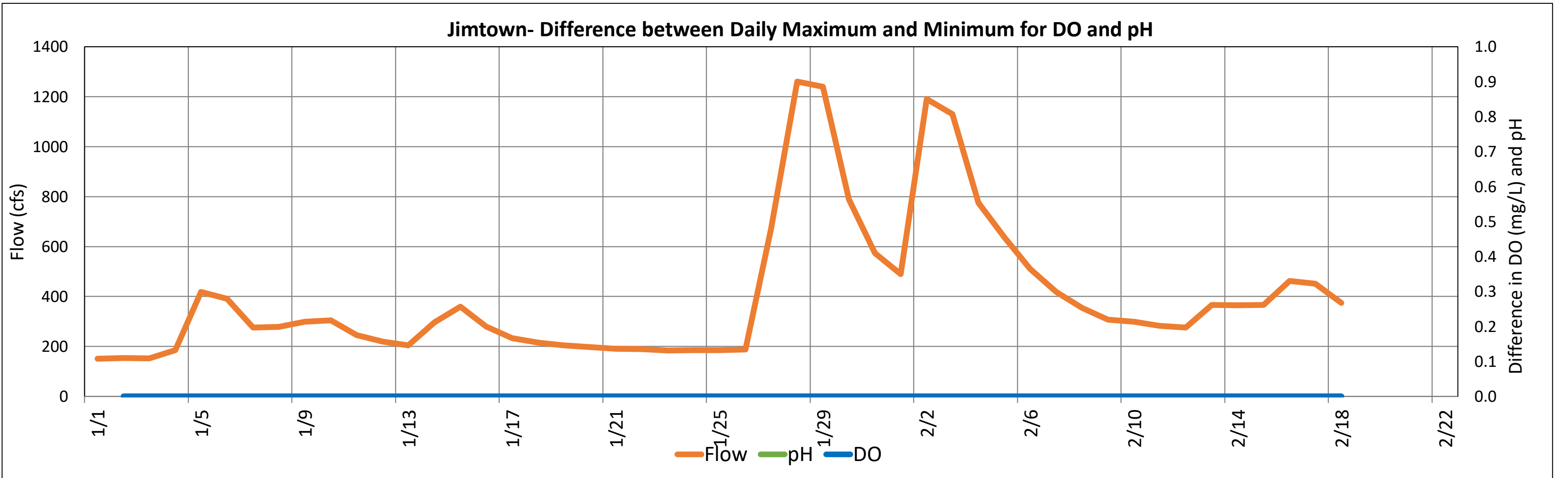
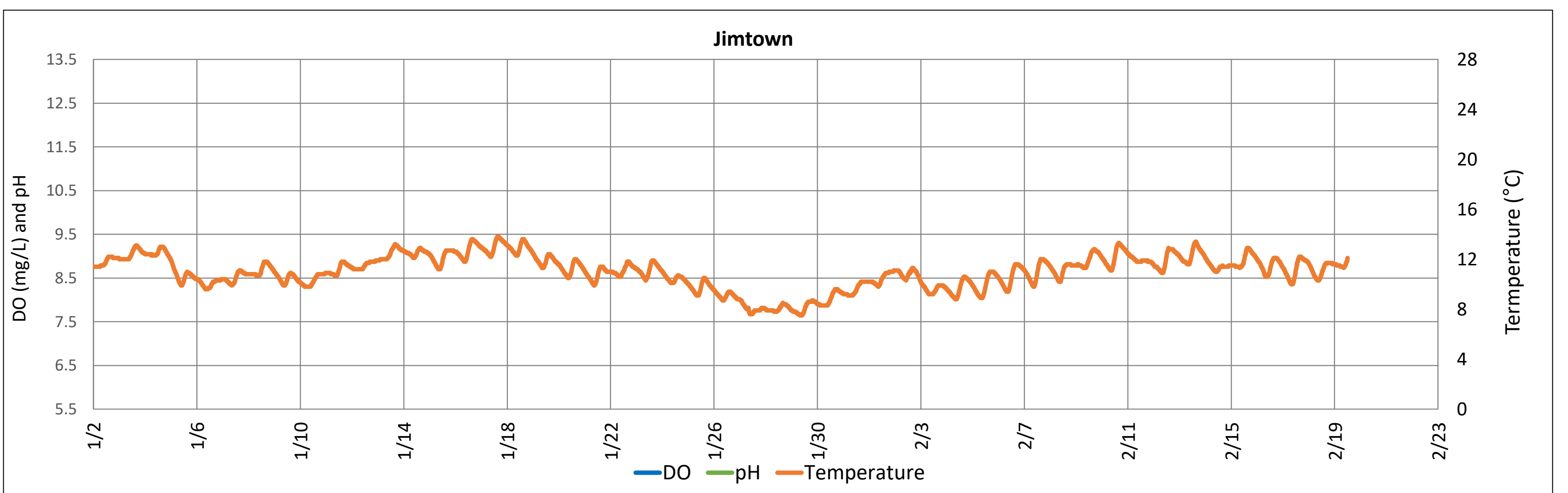


Russian River Water Quality (January 1 - February 18, 2021)

Hopland

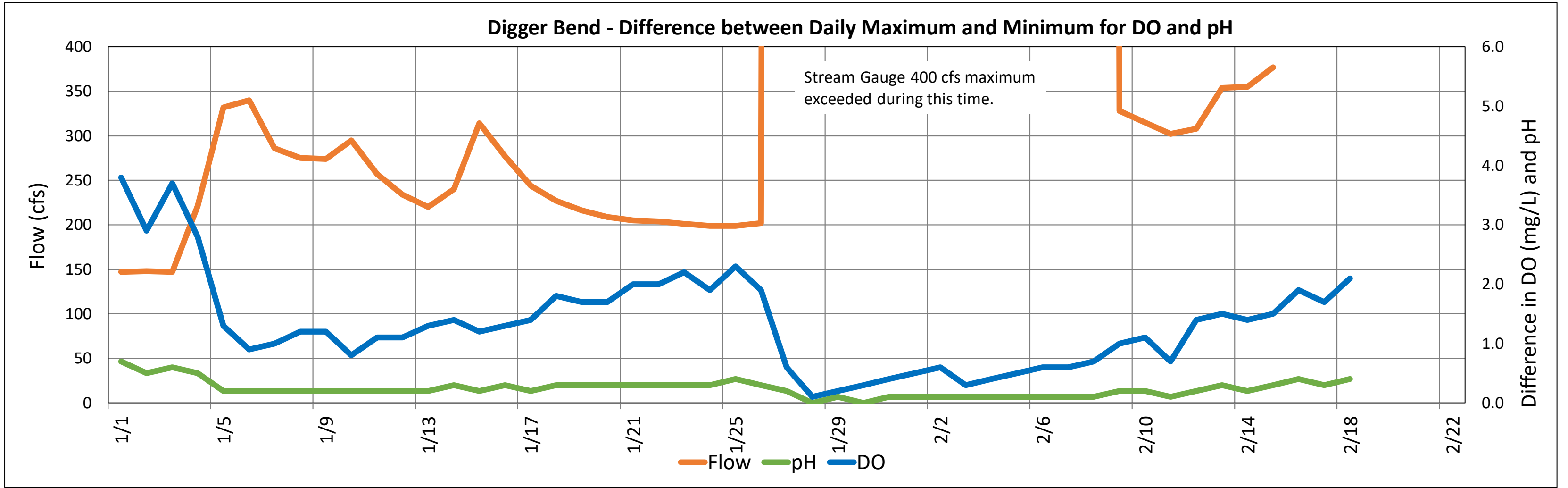
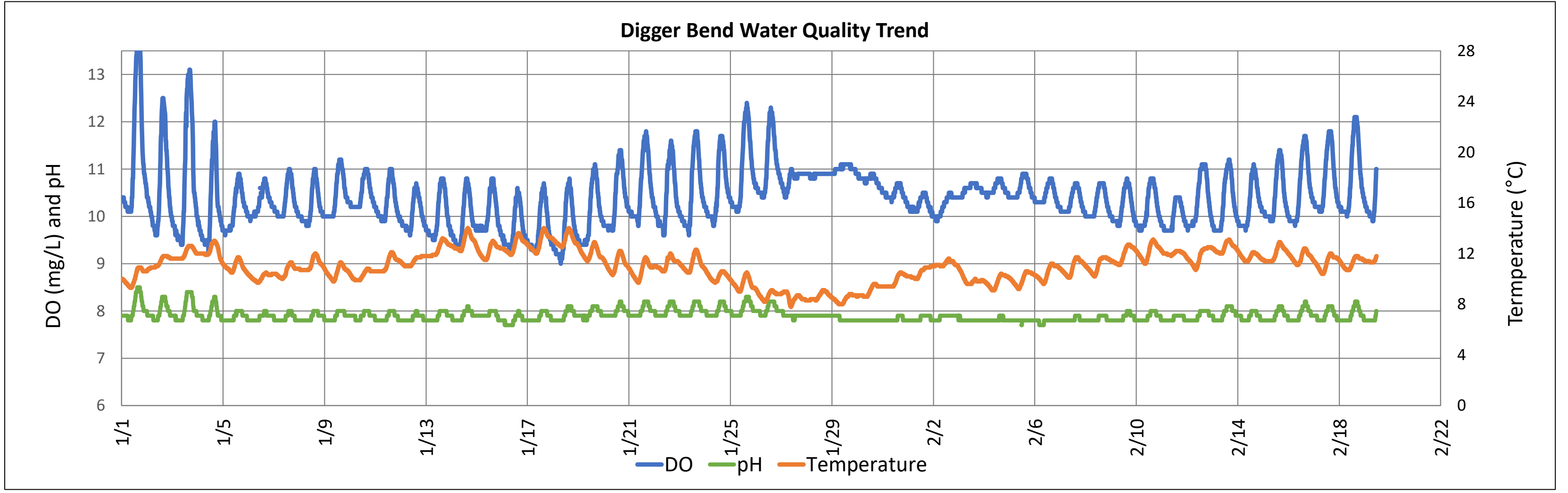


Jimtown Water Quality

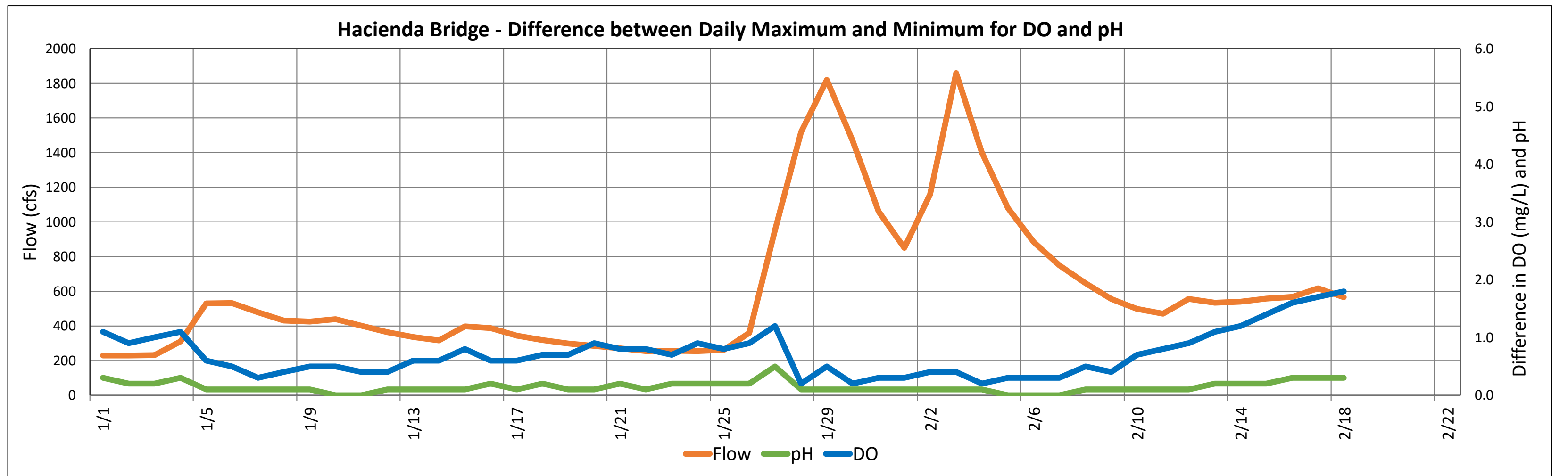
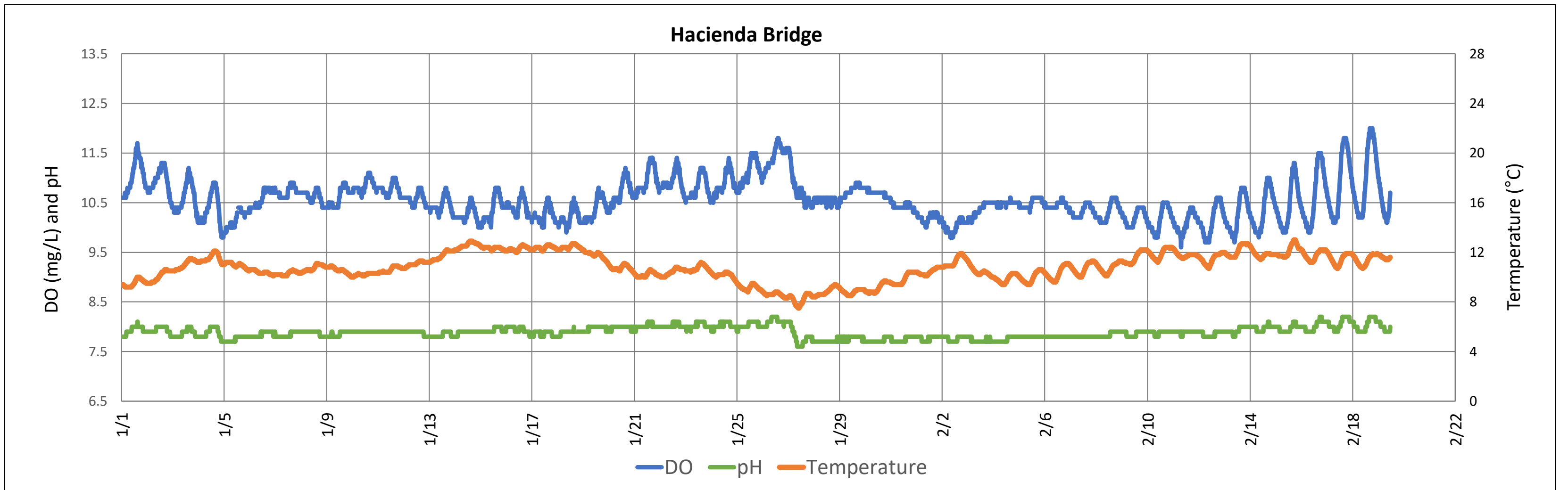


Russian River Water Quality (January 1 - February 18, 2021)

Digger Bend



Hacienda Bridge Water Quality



Russian River Fisheries Monitoring



Report on 2/18/21: Report on 2/18/21: Sonoma Water operates a fish counting station at a seasonal dam on the Russian River near the town of Forestville, CA. The Mirabel Dam video monitoring station closed for the season on January 23, 2021, but Sonoma Water continues to review video that was collected earlier in the season. Video is recorded at the east and west fish ladders. The counts below reflect totals completed for the full period of operation for the east fish ladder and up to January 11th for the west fish ladder. Surveys were conducted at five sites in the Upper Russian River to collect information on spawning salmonids and their redds. However, water visibility was too poor to observe salmonids or redds. Visibility ranged from 1.0 ft to 1.6 feet. During this time spawning was observed in Dry Creek.

Salmonid Count at Mirabel Fish Ladder

Fish Counts	Most Recent Update (1/7/21-1/23/21)	Season Total (9/1/20-1/23/21)
Steelhead	283	457
Chinook	6	608
Coho	60	305
Unidentified Salmonid	0	27

Salmonid Redd and Spawner Survey

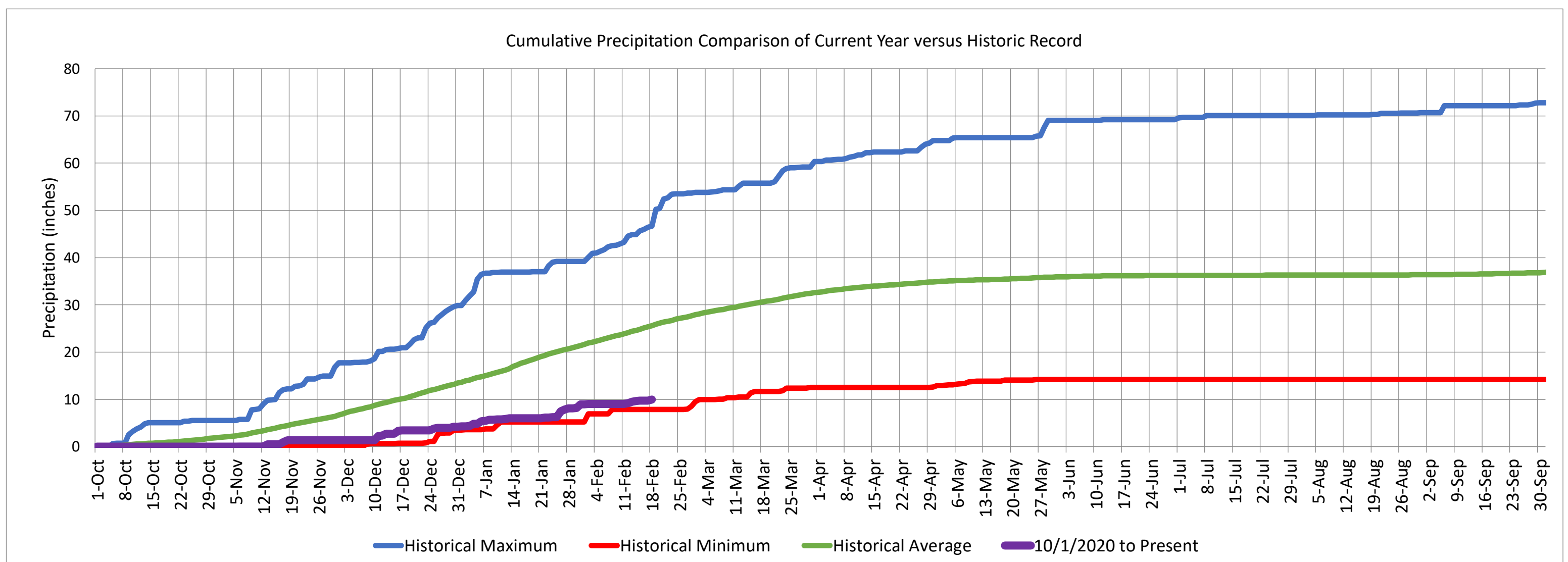
Location: Dry Creek
Date: 2/15-2/18
Conditions: Spawning observed

Spawner Survey		
Counts	Most Recent Survey	Season Survey Total
Steelhead	n/c	8
Chinook	n/c	0
Coho	n/c	0
Unidentified Salmonid	n/c	5

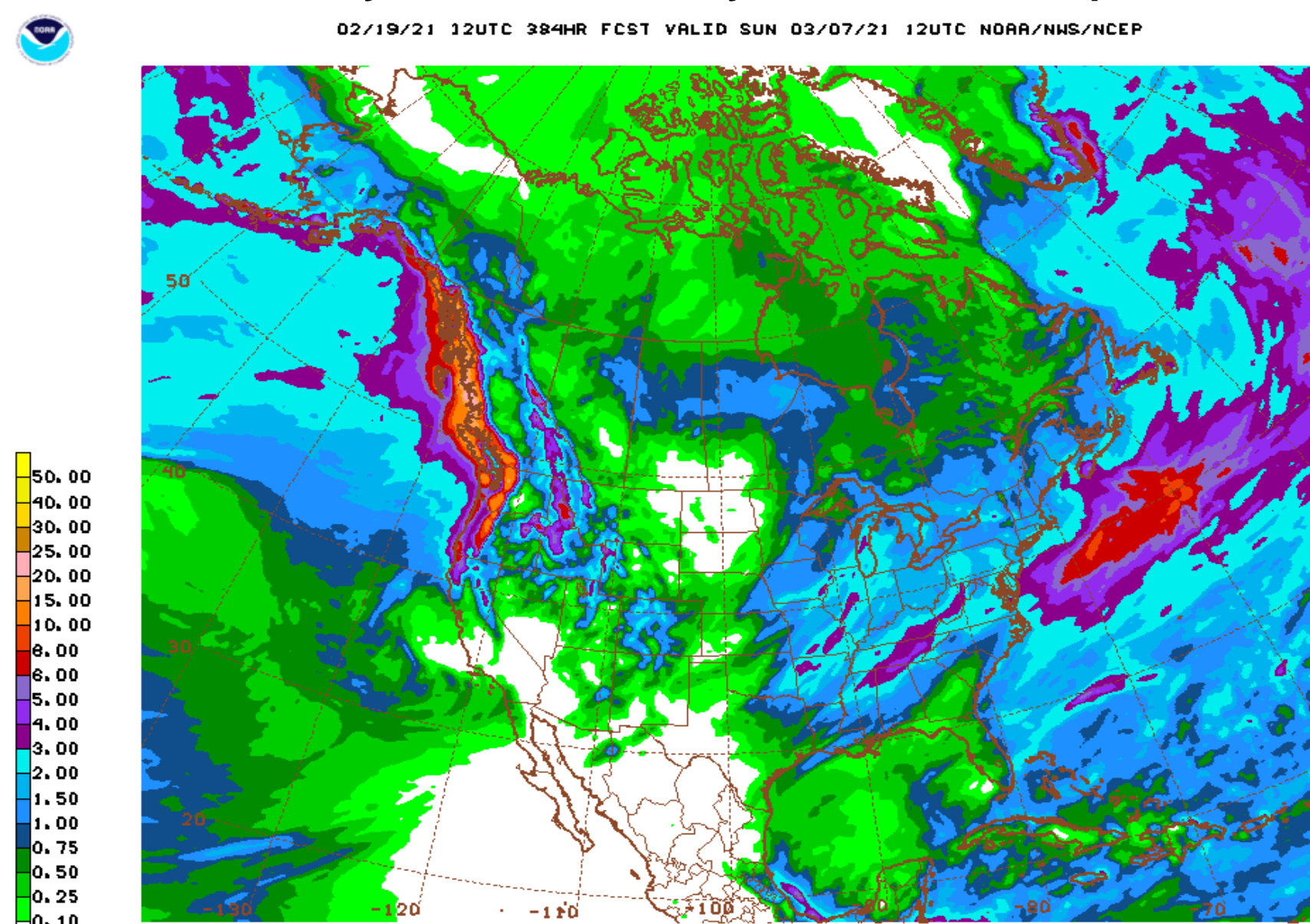
Redd Survey Count: -

Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2020 - Feb 18, 2021	9.96
Last 7 Days*	0.94



Global Forecast System Model 16-day Cumulative Precipitation Forecast



SUN 210307/1200V384 GFS 384HR TOTAL ACCUMULATED PRECIP (IN)
 Date Range: Feb 19 - Mar 6, 2021
 Forecasted Cumulative (inches): **0.5**