



State Water Resources Control Board
 Temporary Urgency Change Order (2/4/2021)
 Russian River Hydrologic Report
 February 18, 2021 - February 25, 2021

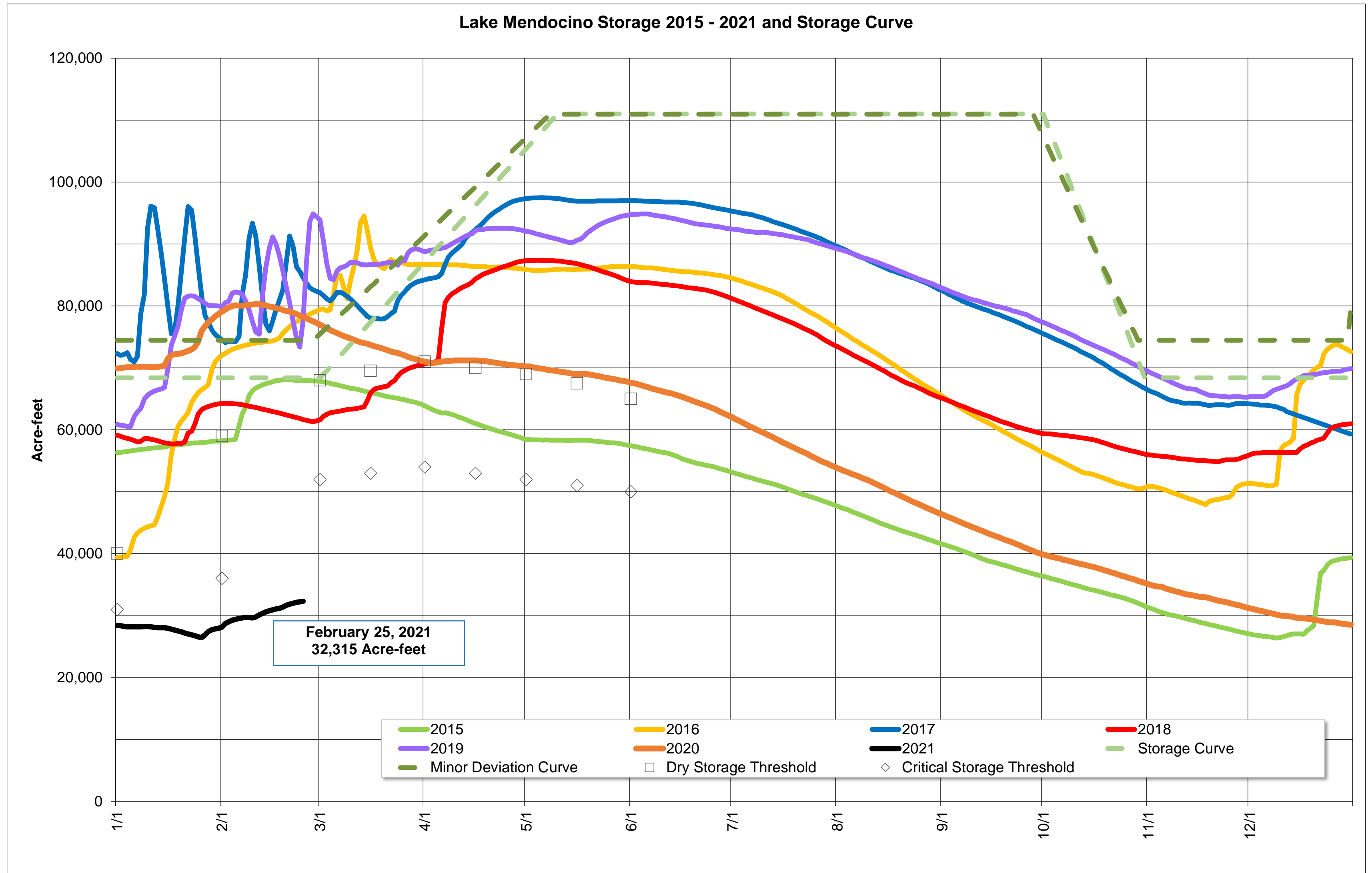
Prepared as a requirement of the Order approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A (Applications 12919A).

Instream Flow Requirements as of February 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

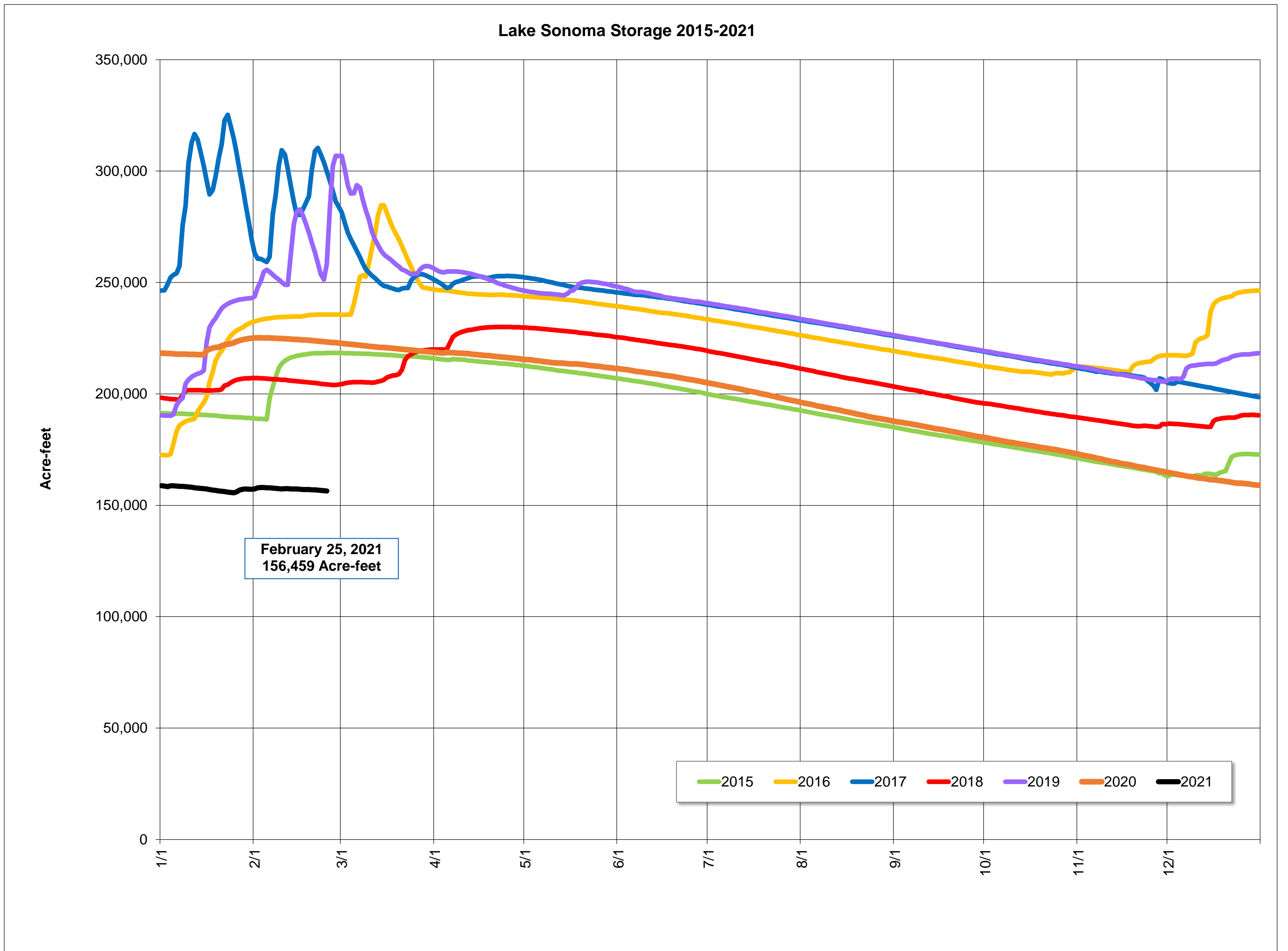
Upper Russian River based on criteria as established in the Order issued 2/4/2021 and amended 2/11/2021.

Lake Mendocino



Storage (acre-feet)	February 25, 2021	32,315	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
	Last 7 days	3,124	104
Daily Inflow (cfs)	Last 7 days	Min	67
		Max	171
		Mean	111
Release (cfs)	Last 7 days	Min	25
		Max	29
		Mean	28

Lake Sonoma



Storage (acre-feet)	February 25, 2021	156,459	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	-8,123	-271
	Last 7 days	-587	-84
Daily Inflow (cfs)	Last 7 days	Min	11
		Max	87
		Mean	37
Release (cfs)	Last 7 days	Min	74
		Max	75
		Mean	75

Potter Valley Project

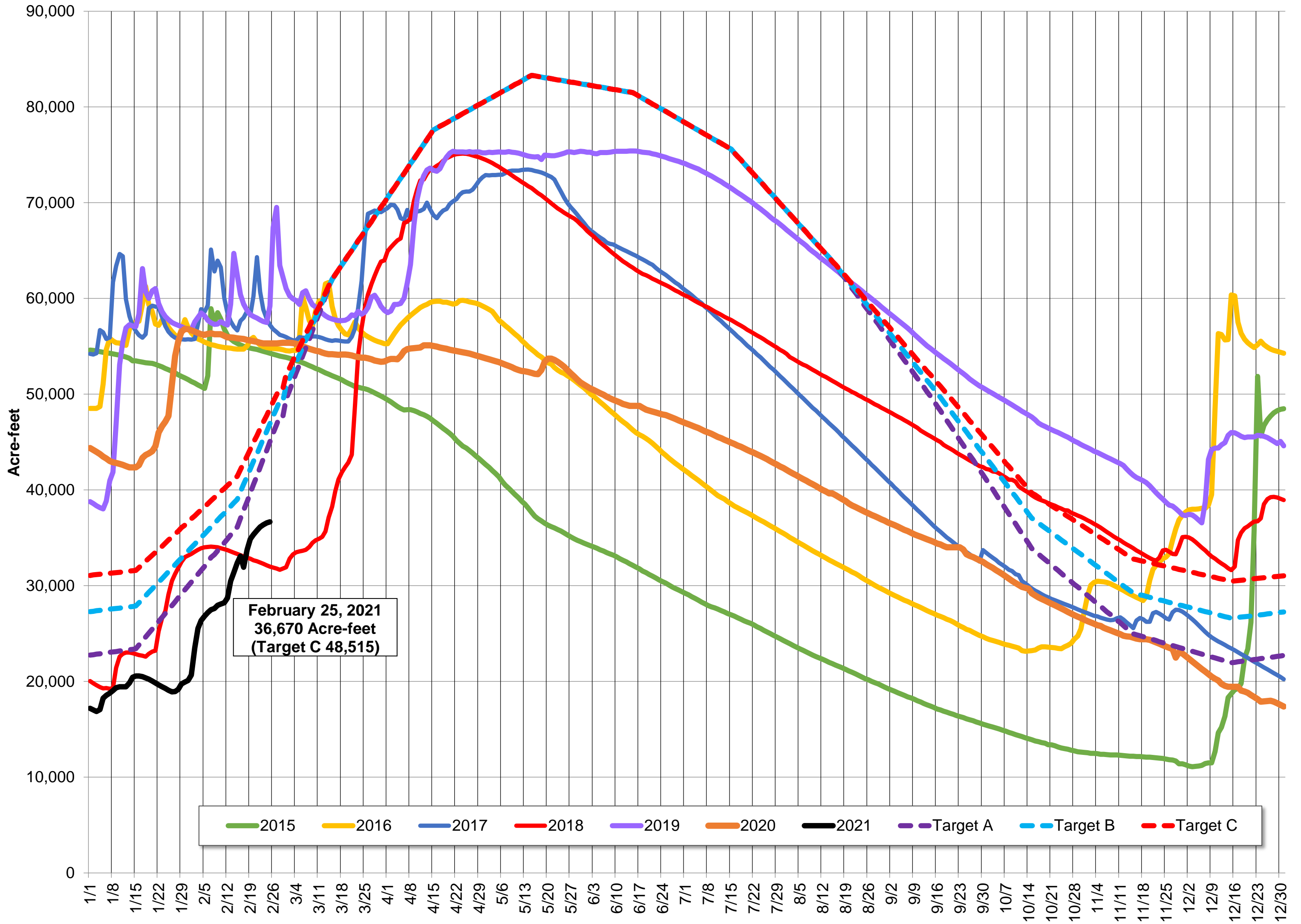
PVP Diversion (cfs)	February 25, 2021	47
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Lake Pillsbury

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2020 - February 25, 2021	49,855	339
	Last 7 days	5,857	837

*Inflow calculation based on criteria established in D1610

Lake Pillsbury Storage 2015-2021 and Target Storage Scenarios

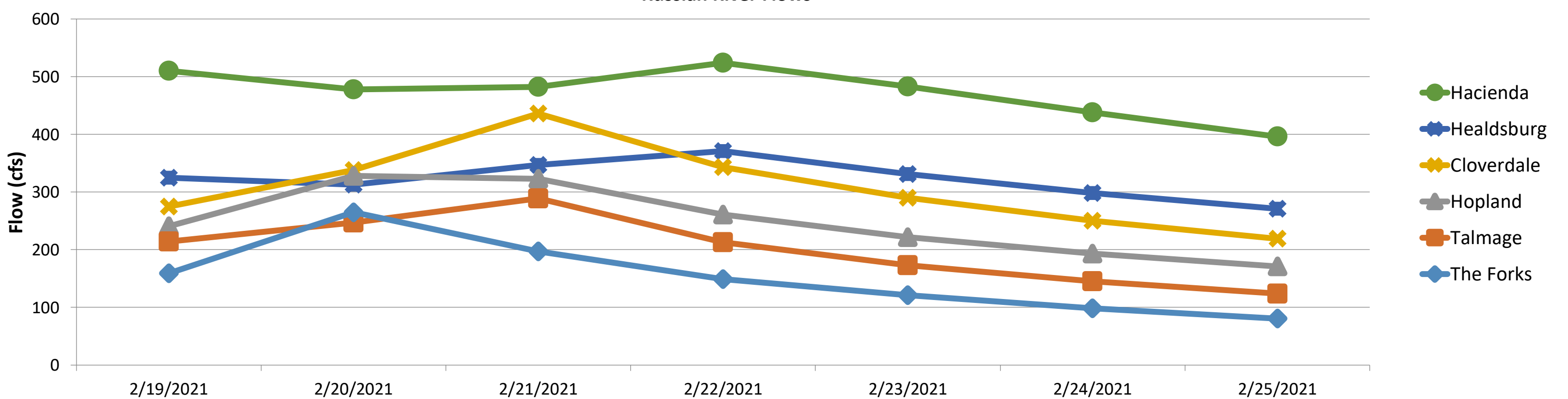


Russian River Flows (February 18 - February 25, 2021)

Gage	24-hr Average Flow (cfs)						
	Feb 19, 2021	Feb 20, 2021	Feb 21, 2021	Feb 22, 2021	Feb 23, 2021	Feb 24, 2021	Feb 25, 2021
The Forks*	159	265	197	149	121	98	81
Talmage USGS 11462080	214	247	289	213	173	145	124
Hopland USGS 11462500	241	328	323	261	222	193	171
Cloverdale USGS 11463000	275	338	436	343	290	250	219
Healdsburg USGS 11464000	325	313	347	371	331	298	271
Hacienda USGS 11467000	510	478	482	524	483	438	396

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

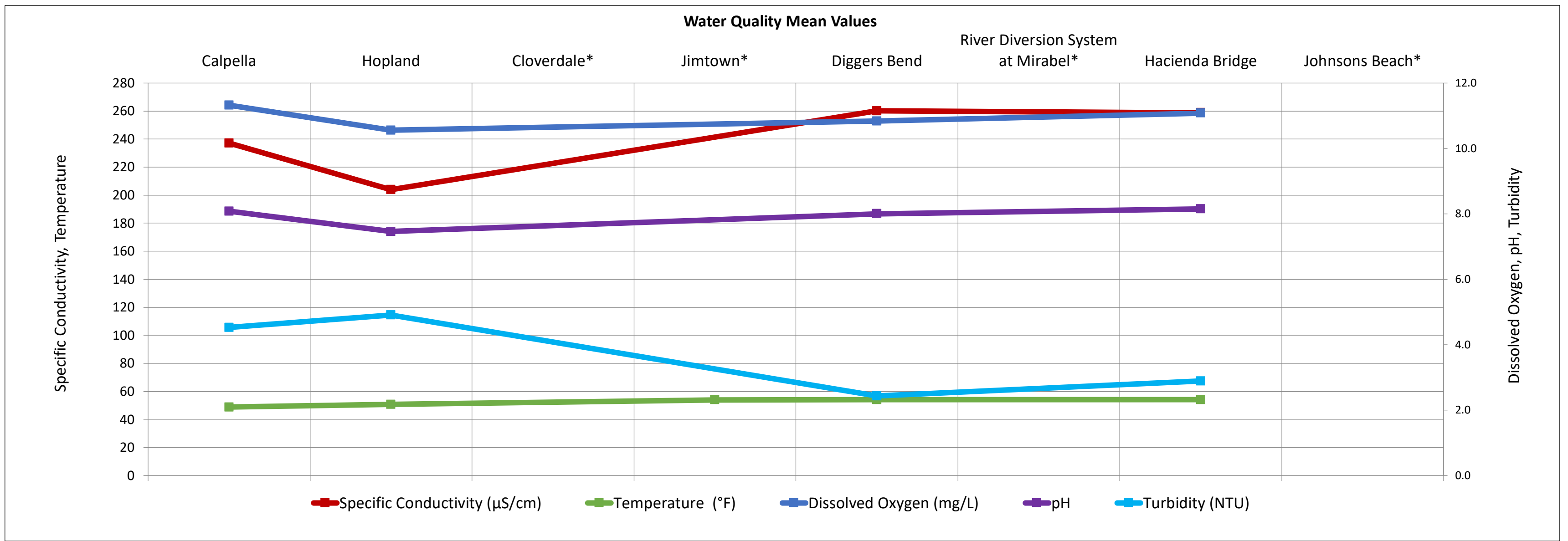
Russian River Flows



Russian River Water Quality (February 18 - February 25, 2021)

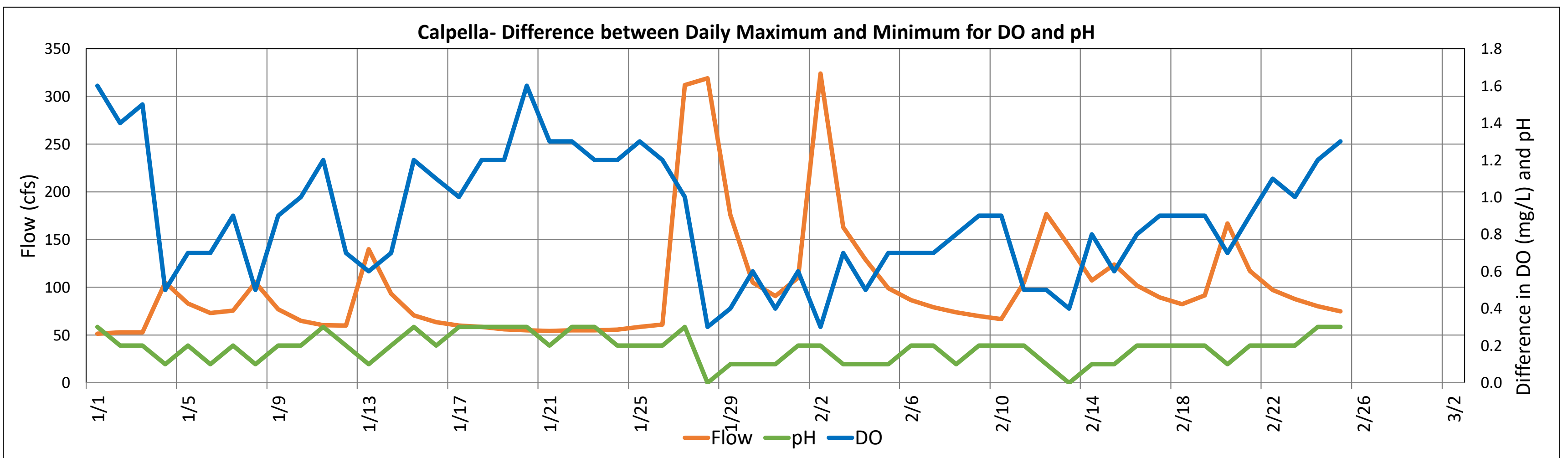
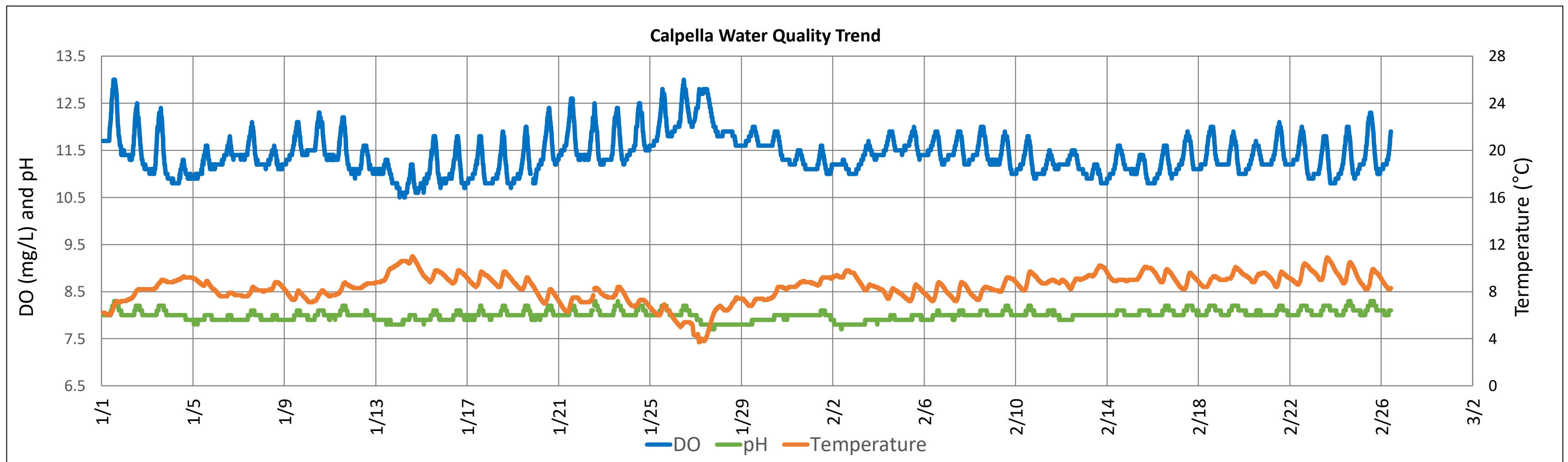
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463200	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	47.1	48.6		50.5	51.3		51.3	
	Max	51.6	53.6		57.2	57.6		56.3	
	Mean	48.9	50.8		54.0	54.1		54.1	
Specific Conductivity (µS/cm)	Min	223	167			238		246	
	Max	246	232			279		274	
	Mean	237	204			260		259	
Dissolved Oxygen (mg/L)	Min	10.8	9.8			9.5		9.6	
	Max	12.1	11.4			13.2		12.5	
	Mean	11.3	10.6			10.8		11.1	
Dissolved Oxygen (% Saturation)	Min	91	85			84		85	
	Max	107	106			128		119	
	Mean	98	94			101		103	
pH	Min	8.0	7.4			7.8		7.9	
	Max	8.3	7.6			8.5		8.4	
	Mean	8.1	7.5			8.0		8.2	
Turbidity (NTU)	Min	1.7	1.9			1.3		1.5	
	Max	16.0	16.7			5.8		4.8	
	Mean	4.5	4.9			2.4		2.9	

*Station operated seasonally



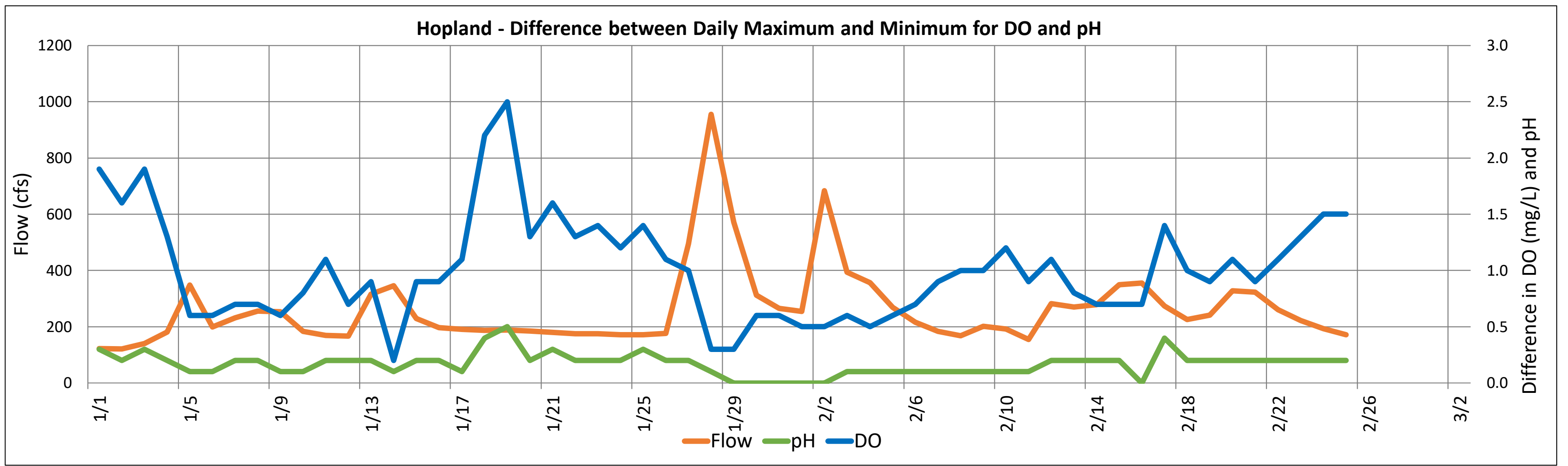
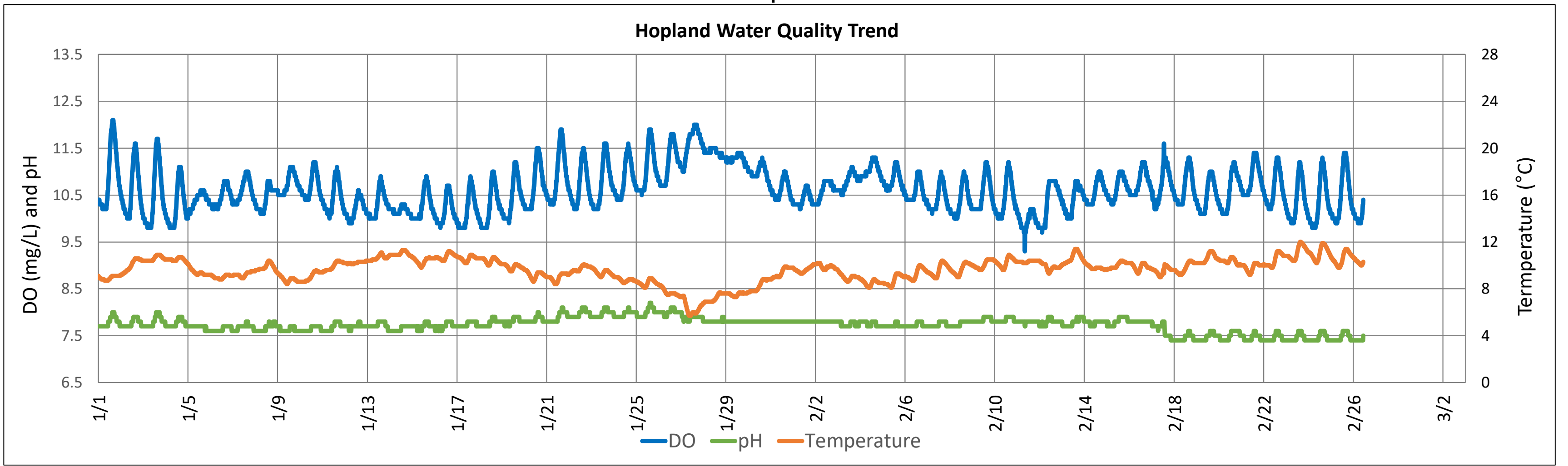
Russian River Water Quality (January 1 - February 25, 2021)

Calpella (East Fork Russian River)

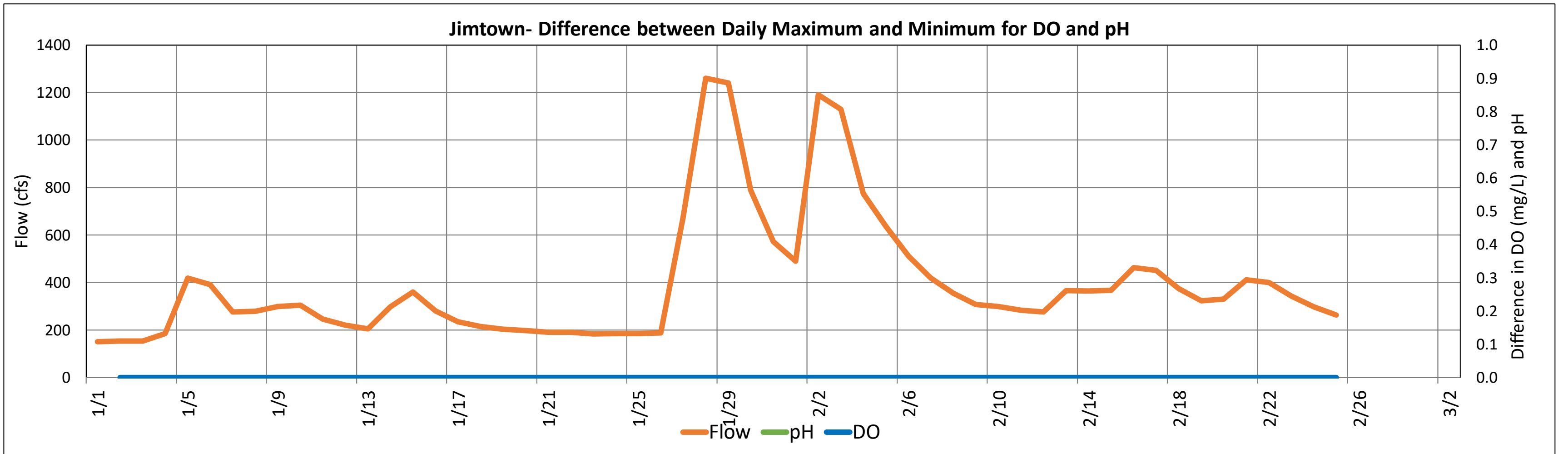
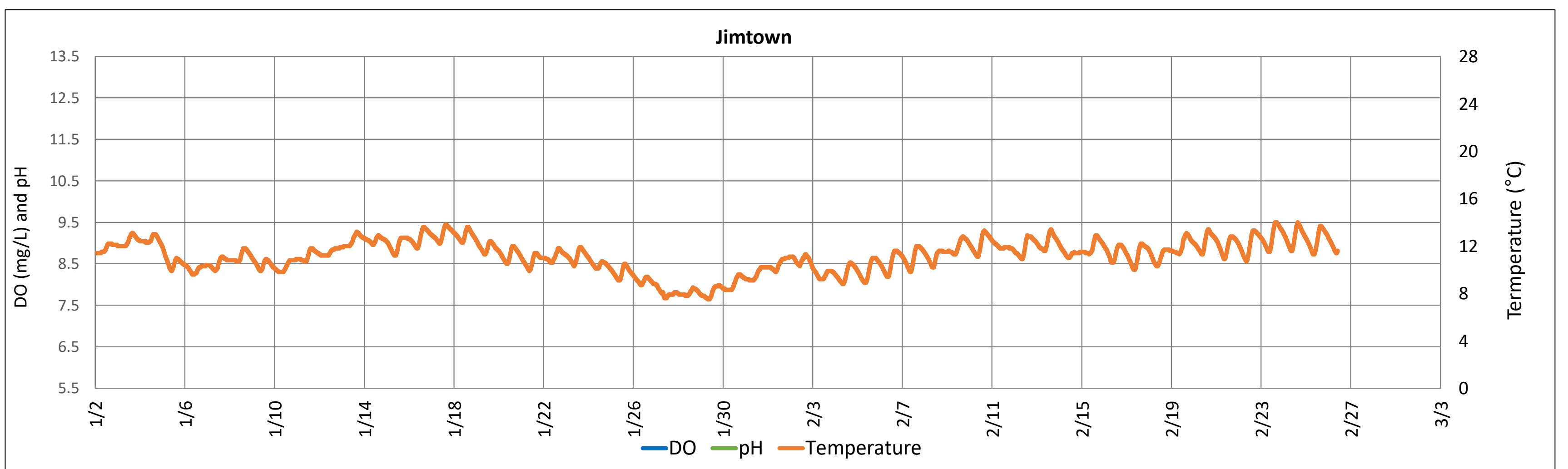


Russian River Water Quality (January 1 - February 25, 2021)

Hopland

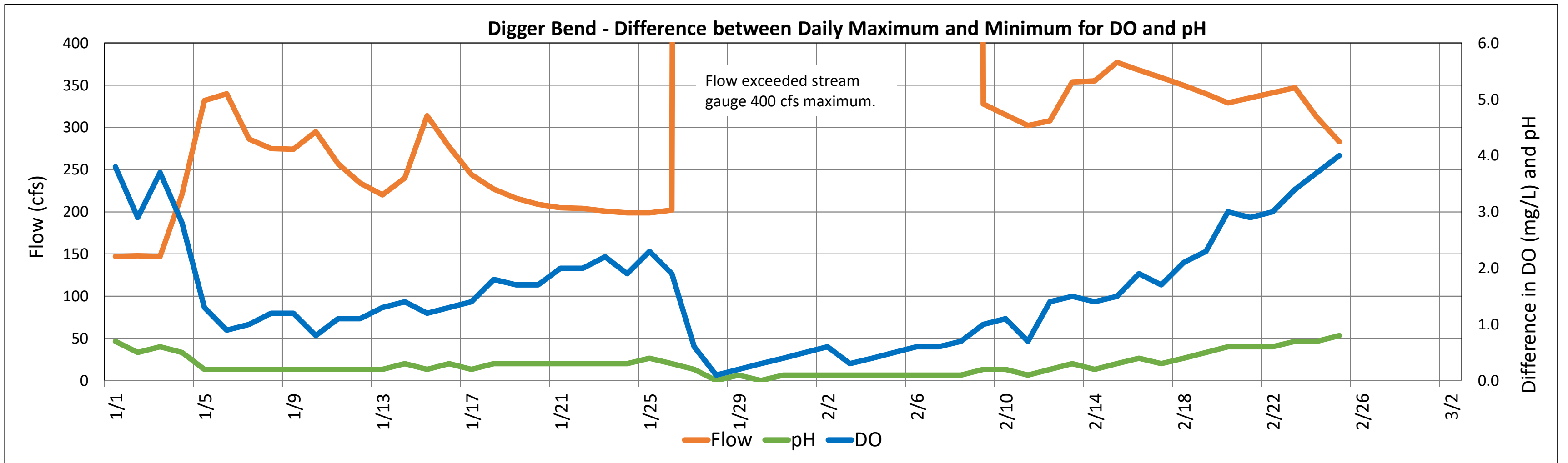
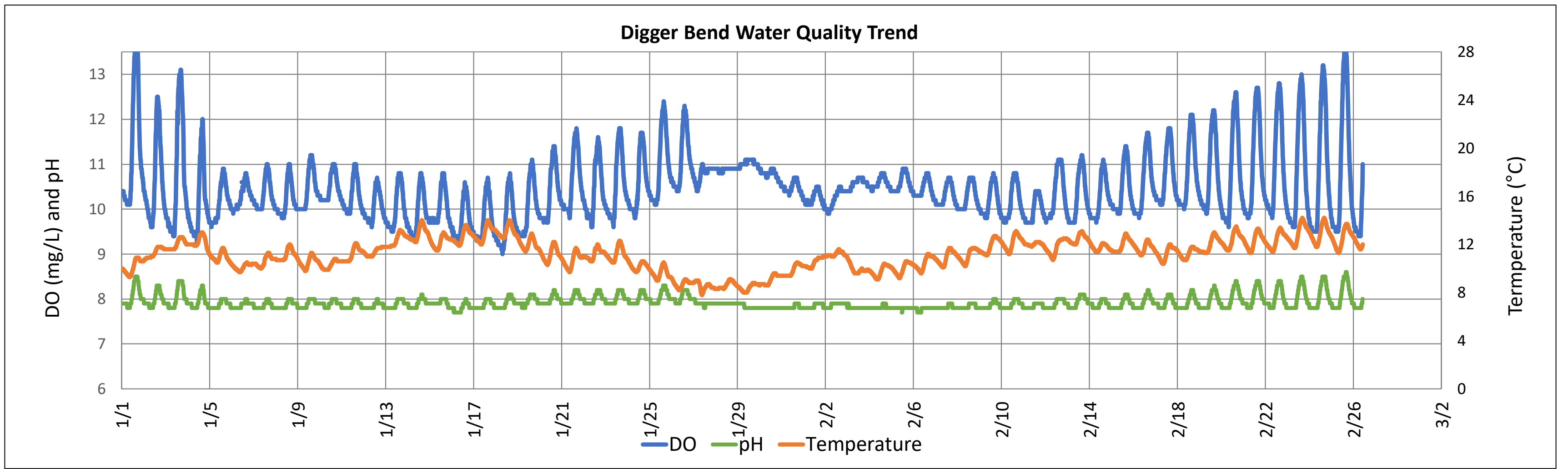


Jimtown Water Quality

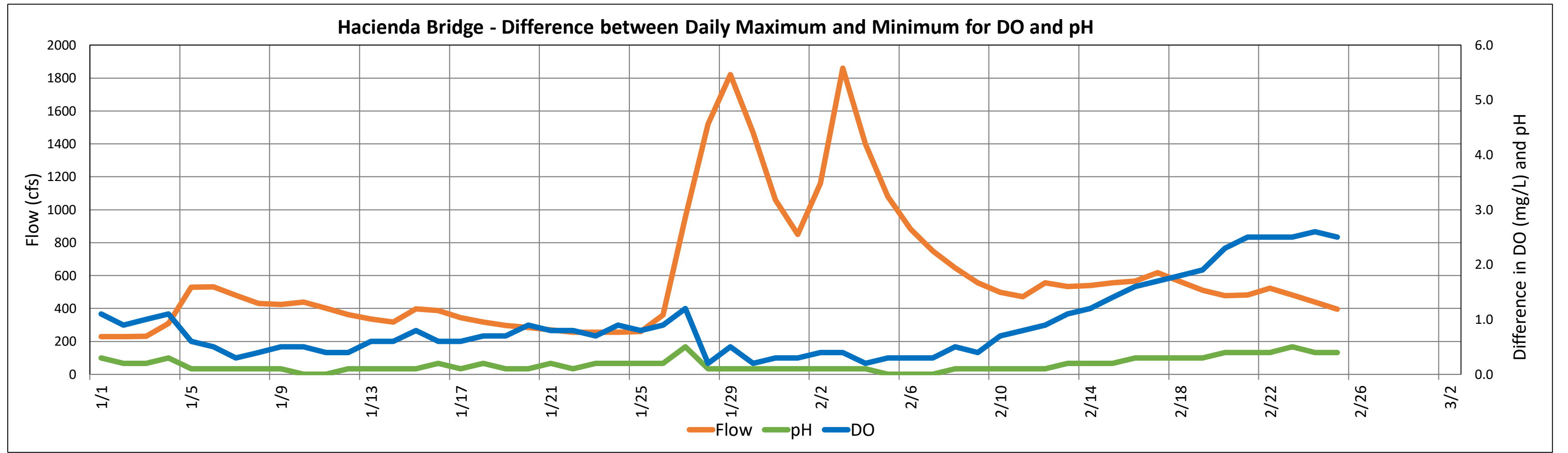
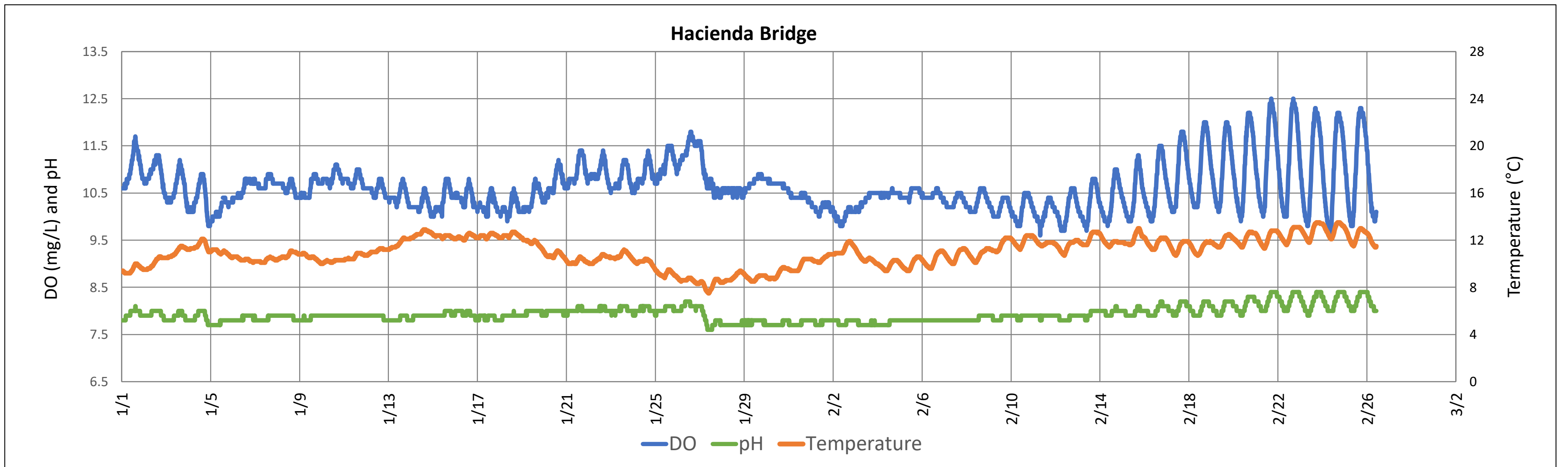


Russian River Water Quality (January 1 - February 25, 2021)

Digger Bend



Hacienda Bridge Water Quality



Russian River Fisheries Monitoring



Report on 2/26/21: Sonoma Water surveyed sites in the upper Russian River and in Dry Creek to collect information on spawning salmonids and their redds. One salmonid redd was observed in the Alexander Valley reach of the Russian River. In Dry Creek, 16 steelhead and 14 redds were observed. 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 has been reviewed through January 13, on the west fish ladder at the Mirabel dam, and through January 24 on the east fish ladder. To date, 477 steelhead, 609 Chinook salmon, and 308 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
East ladder	1/24/2021
West ladder	1/13/2021

Species	Season total
Steelhead	477
Chinook	609
Coho	308
Unidentified Salmonid	64

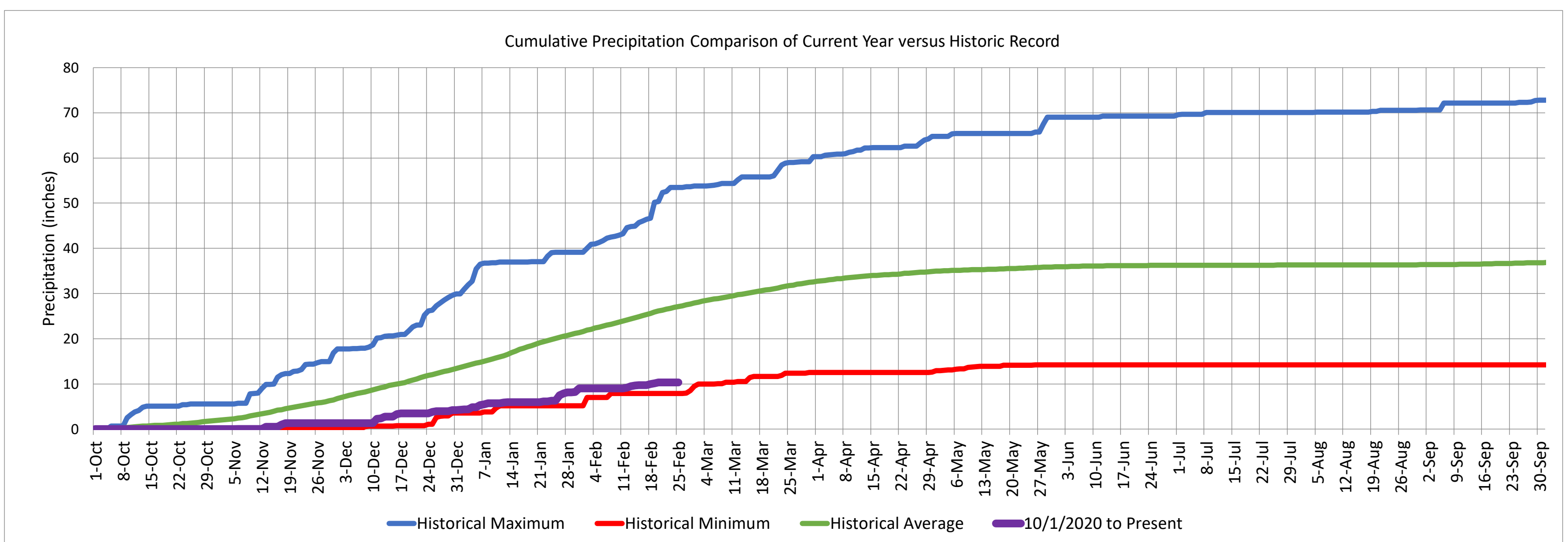
Salmonid Redd and Spawner Survey

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

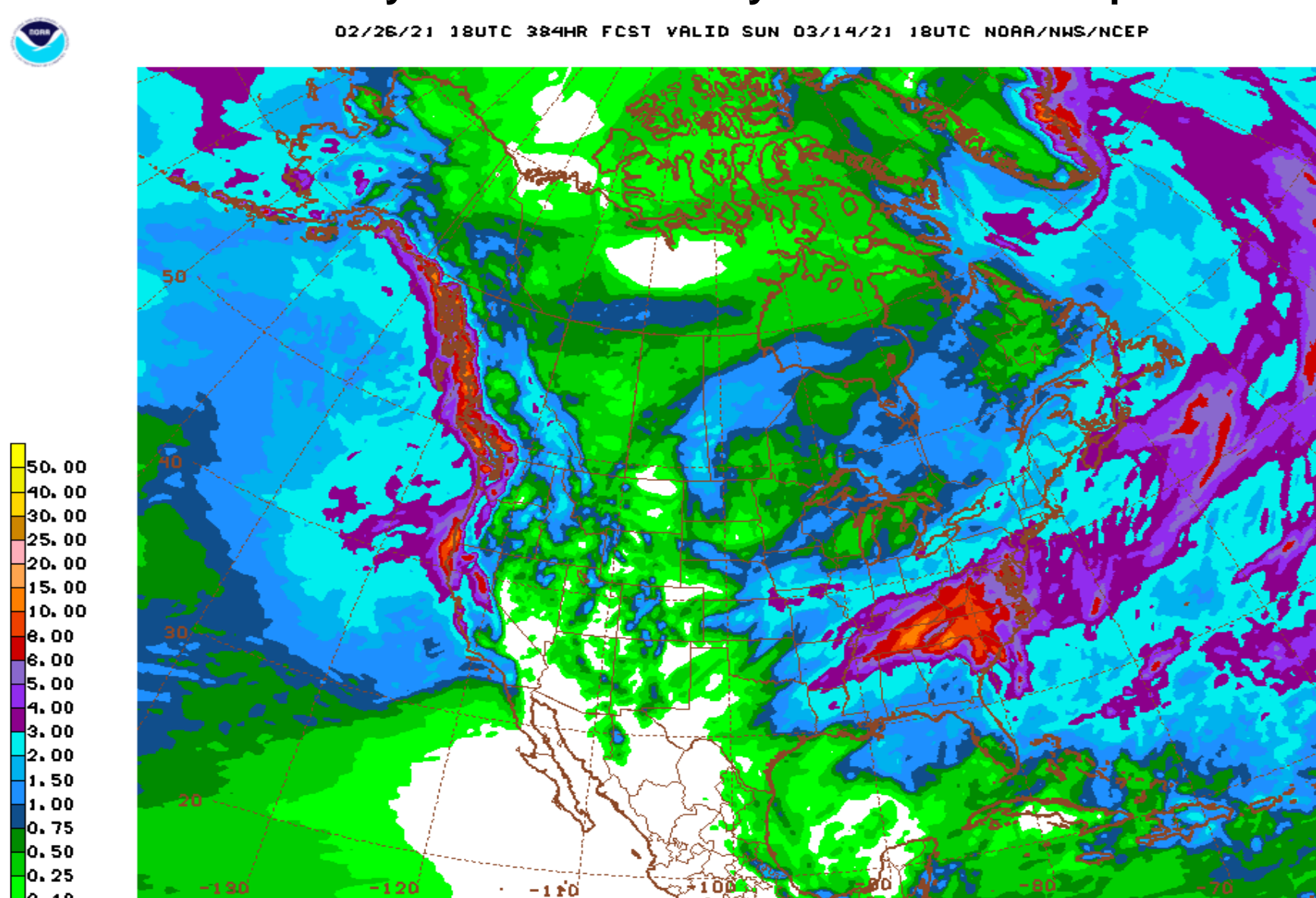
Tributary	Previous Week's Survey			Recent Survey Date		
	Fish		Redds	Fish		Redds
	Steelhead	Salmonid Species		Steelhead	Salmonid Species	
Dry Creek	0	16	10	16	0	14
Russian River	0	0	0	0	0	1
Russian River	0	0	0	0	0	0

Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2020 - Feb 25, 2021	10.32
Last 7 Days*	0.36



Global Forecast System Model 16-day Cumulative Precipitation Forecast



Date Range	Forecasted Cumulative (inches)
Feb 26 - Mar 13, 2021	3.6