



State Water Resources Control Board
 Temporary Urgency Change Order (2/4/2021)
 Russian River Hydrologic Report
 April 30, 2021 - May 6, 2021

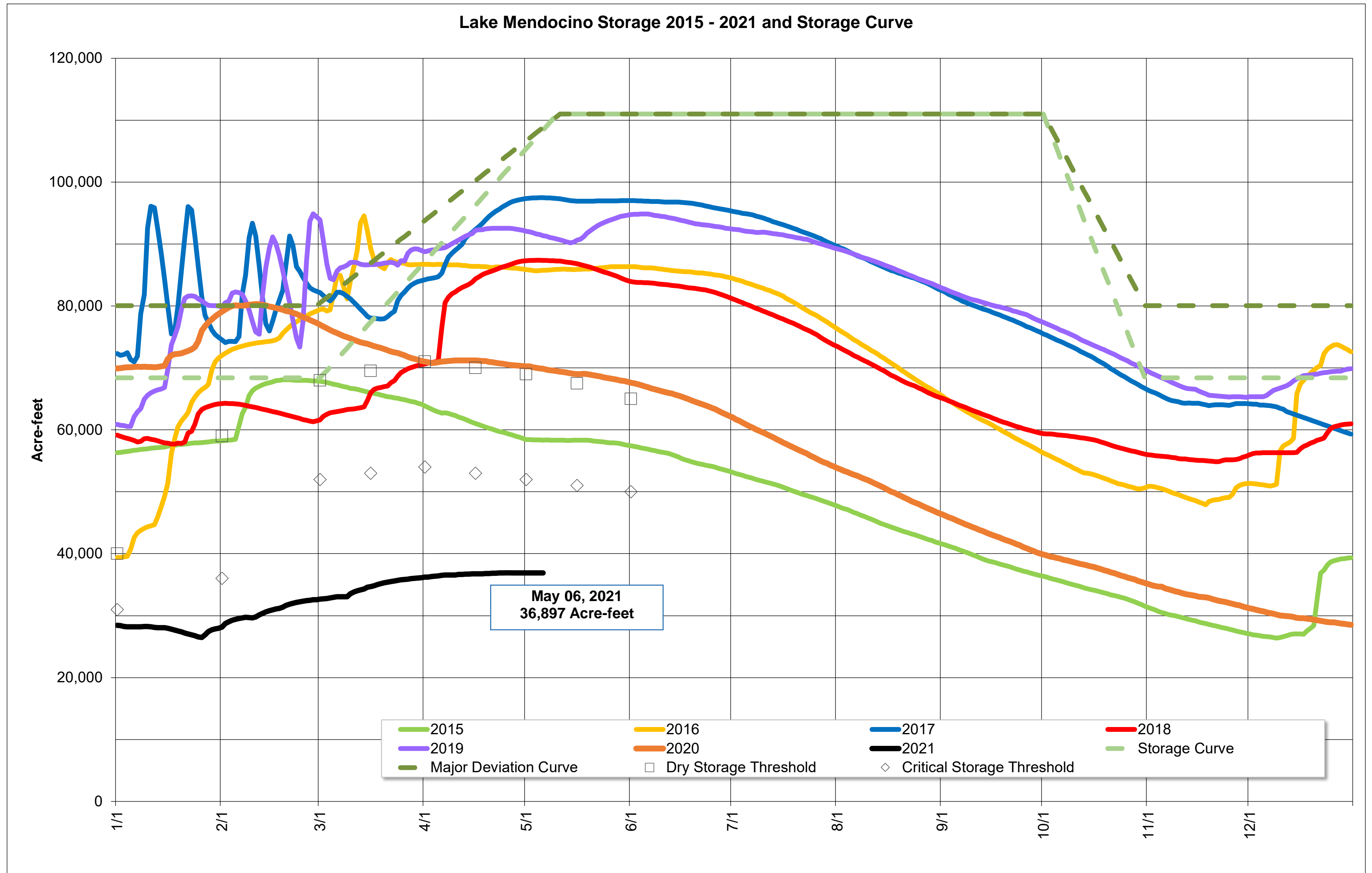
Prepared as a requirement of the Order approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A (Applications 12919A).

Instream Flow Requirements as of May 6, 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

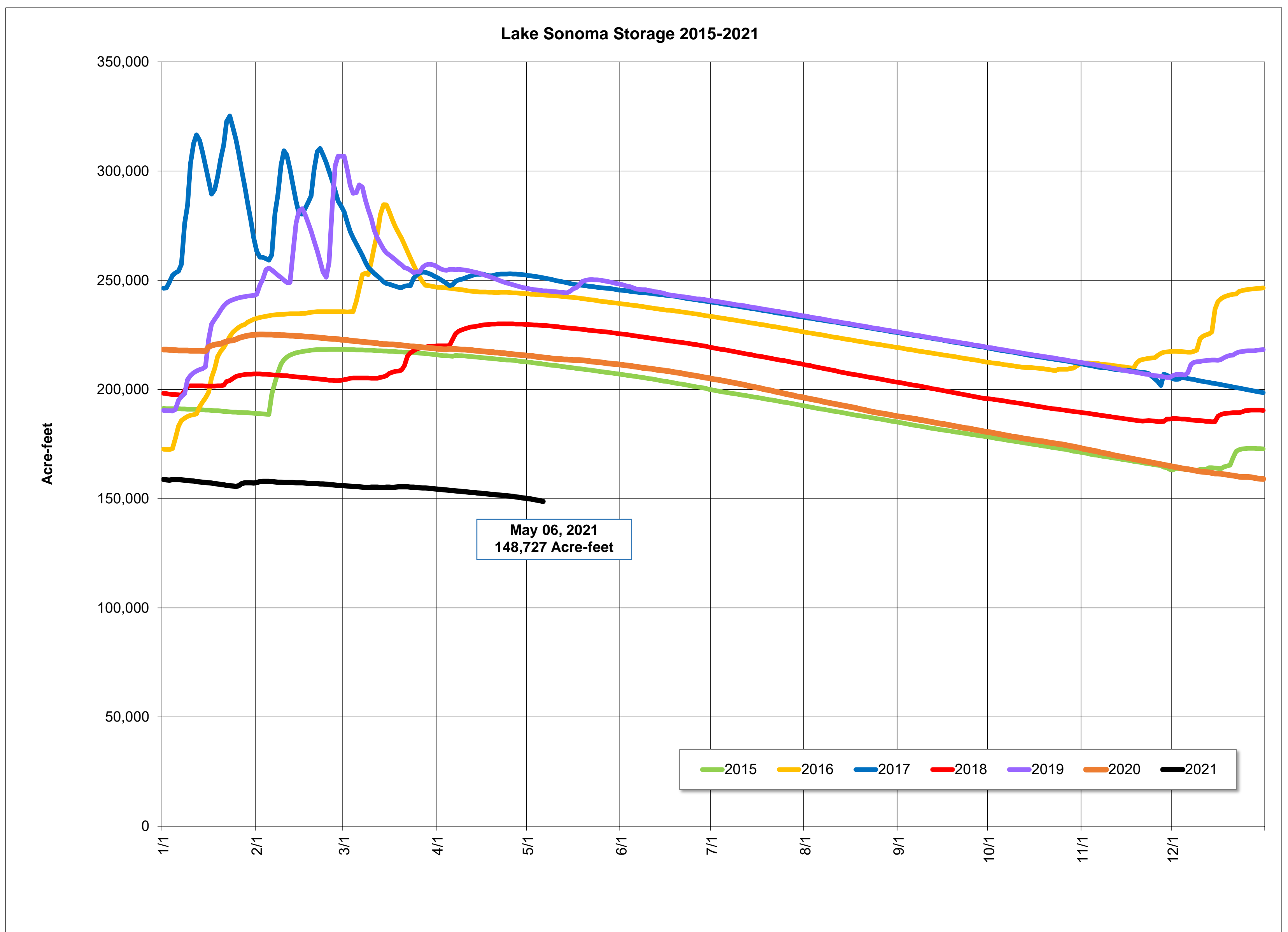


Storage (acre-feet)	May 6, 2021	36,897	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
	Last 7 days	405	14
Daily Inflow (cfs)	Last 7 days	Min	31
		Max	46
		Mean	39
Release (cfs)	Last 7 days	Min	28
		Max	29
		Mean	29

Lake Sonoma



Nathan Baskett, March 3, 2021



Storage (acre-feet)	May 6, 2021	148,727	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
		-4,958	-165
	Last 7 days	-1,704	-243
Daily Inflow (cfs)	Last 7 days	Min	0
		Max	5
		Mean	0
Release (cfs)	Last 7 days	Min	84
		Max	119
		Mean	103

Potter Valley Project

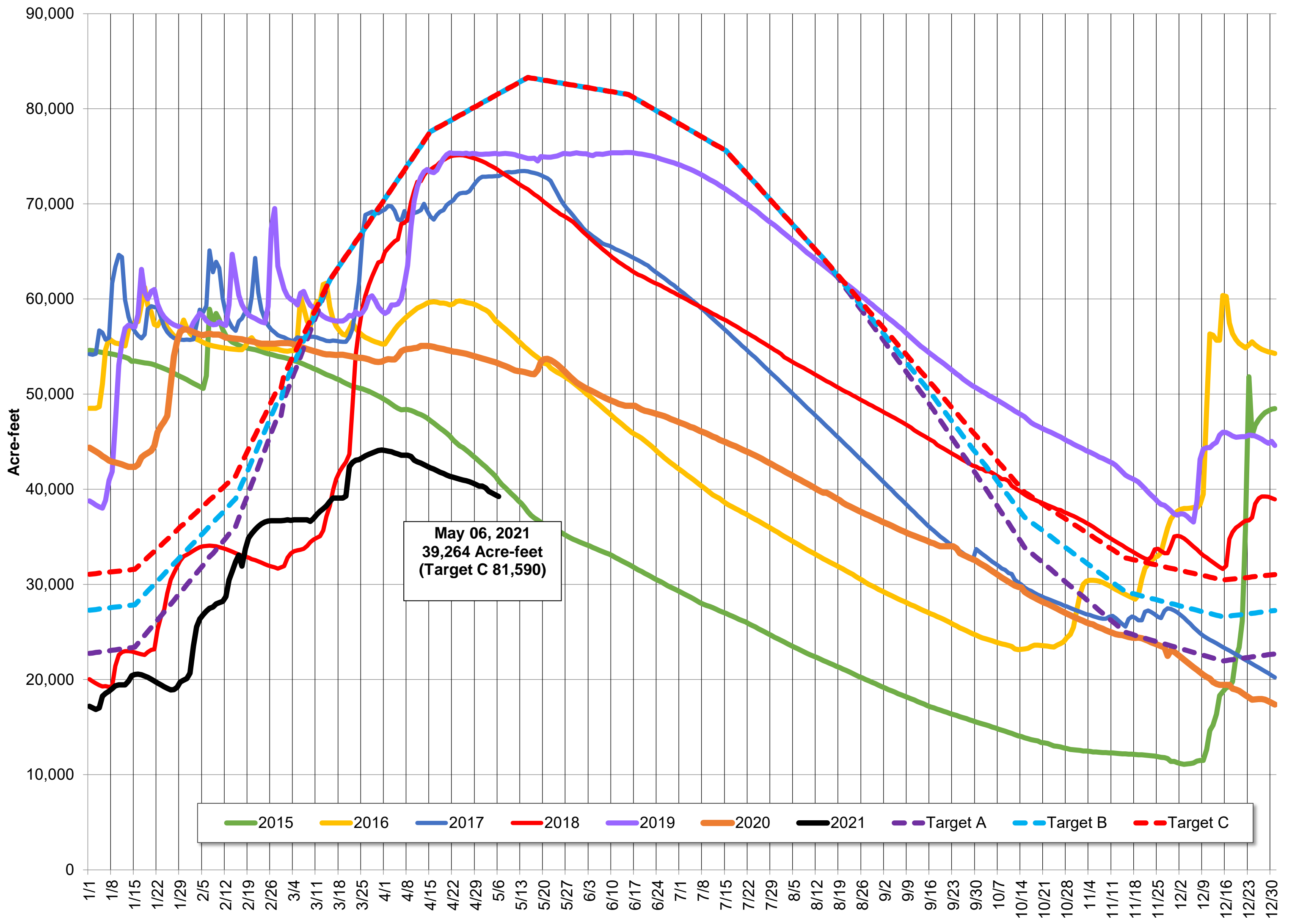
PVP Diversion (cfs)	May 6, 2021	36
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Lake Pillsbury

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2020 - May 6, 2021	84,551	390
	Last 7 days	1,246	178

*Inflow calculation based on criteria established in D1610

Lake Pillsbury Storage 2015-2021 and Target Storage Scenarios

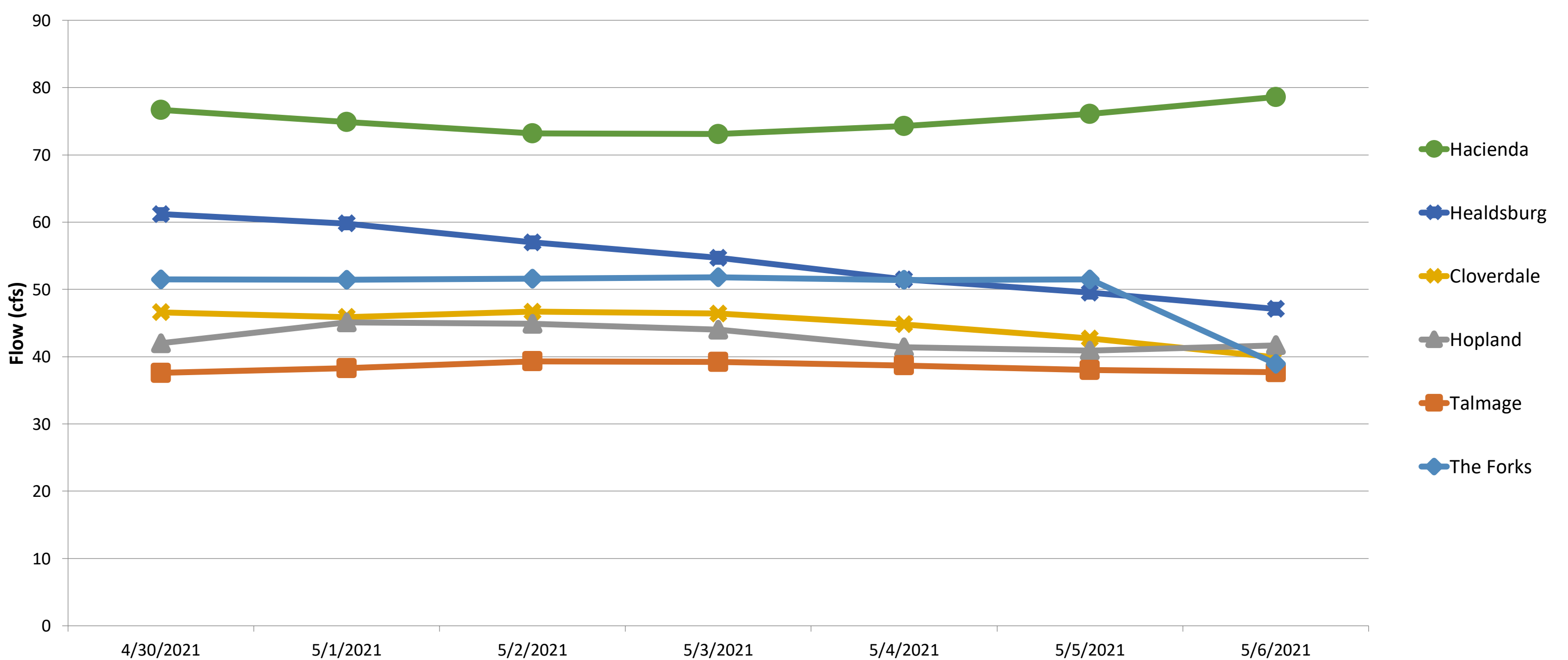


Russian River Flows (April 30 - May 6, 2021)

Gage	24-hr Average Flow (cfs)						
	Apr 30, 2021	May 1, 2021	May 2, 2021	May 3, 2021	May 4, 2021	May 5, 2021	May 6, 2021
The Forks*	52	51	52	52	51	52	39
Talmage USGS 11462080	38	38	39	39	39	38	38
Hopland USGS 11462500	42	45	45	44	41	41	42
Cloverdale USGS 11463000	47	46	47	46	45	43	40
Healdsburg USGS 11464000	61	60	57	55	52	50	47
Hacienda USGS 11467000	77	75	73	73	74	76	79

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

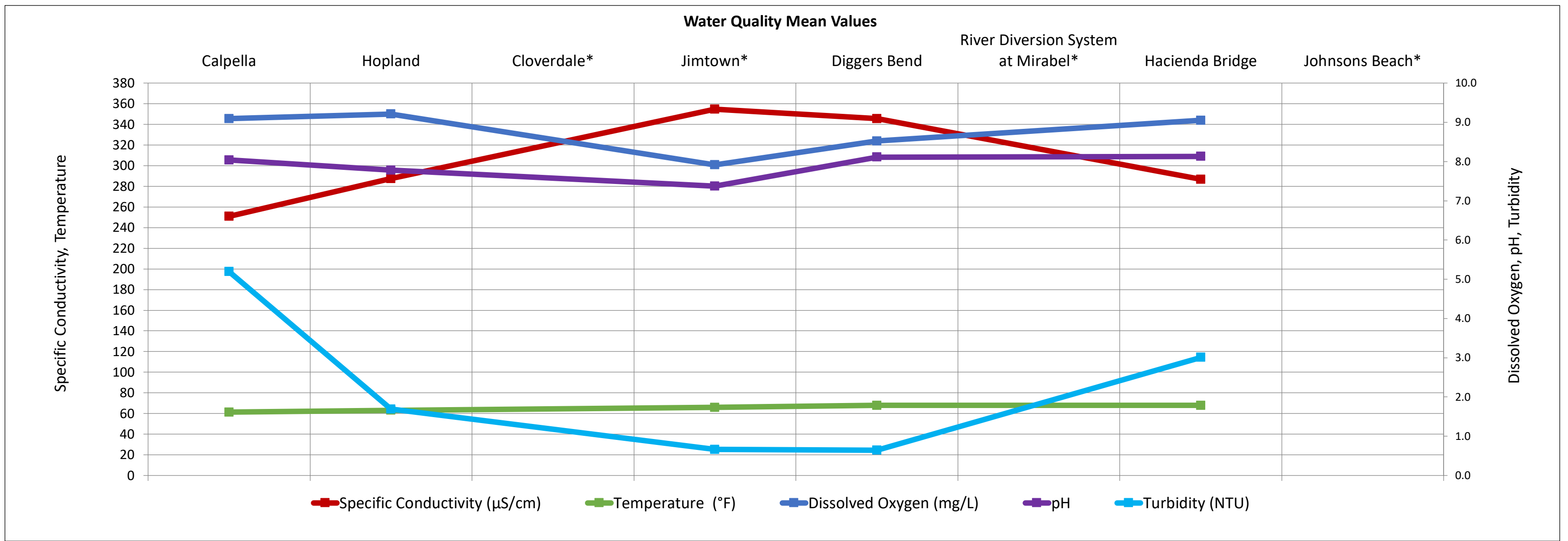
Russian River Flows



Russian River Water Quality (April 30 - May 6, 2021)

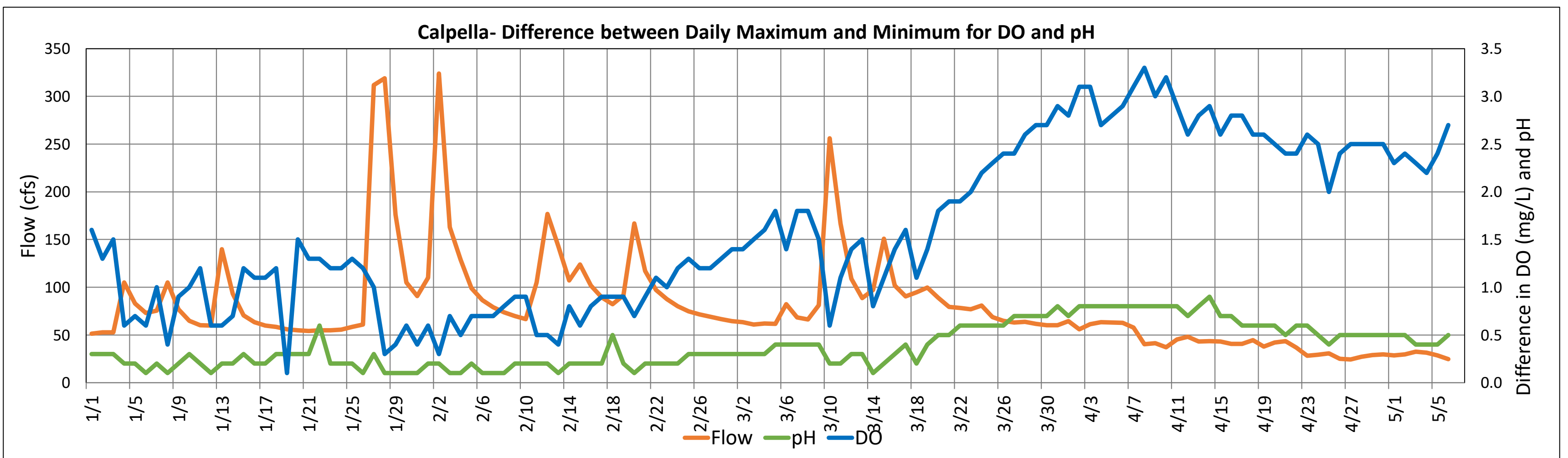
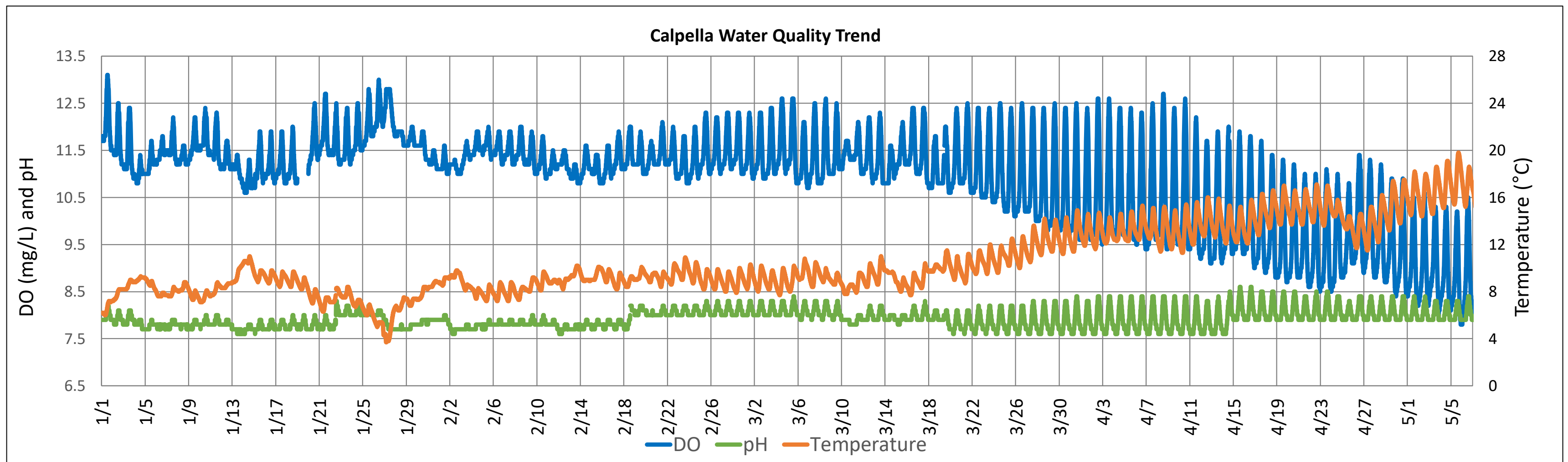
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463200	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	55.8	58.3		61.3	62.2		63.3	
	Max	67.6	67.6		72.1	75.6		72.1	
	Mean	61.4	63.2		65.9	67.9		67.9	
Specific Conductivity (µS/cm)	Min	243	285		351	343		268	
	Max	259	292		357	349		302	
	Mean	251	287		355	346		287	
Dissolved Oxygen (mg/L)	Min	7.8	6.4		5.9	6.1		7.5	
	Max	10.9	12.9		10.4	10.3		11.2	
	Mean	9.1	9.2		7.9	8.5		9.0	
Dissolved Oxygen (% Saturation)	Min	74	62		60	62		78	
	Max	117	139		119	122		128	
	Mean	92	95		84	92		97	
pH	Min	7.9	7.4		7.2	7.8		7.8	
	Max	8.4	8.3		7.5	8.3		9.0	
	Mean	8.0	7.8		7.4	8.1		8.1	
Turbidity (NTU)	Min	1.8	0.6		0.1	0.3		0.8	
	Max	124.0	8.0		1.5	1.6		8.1	
	Mean	5.2	1.7		0.7	0.6		3.0	

*Station operated seasonally



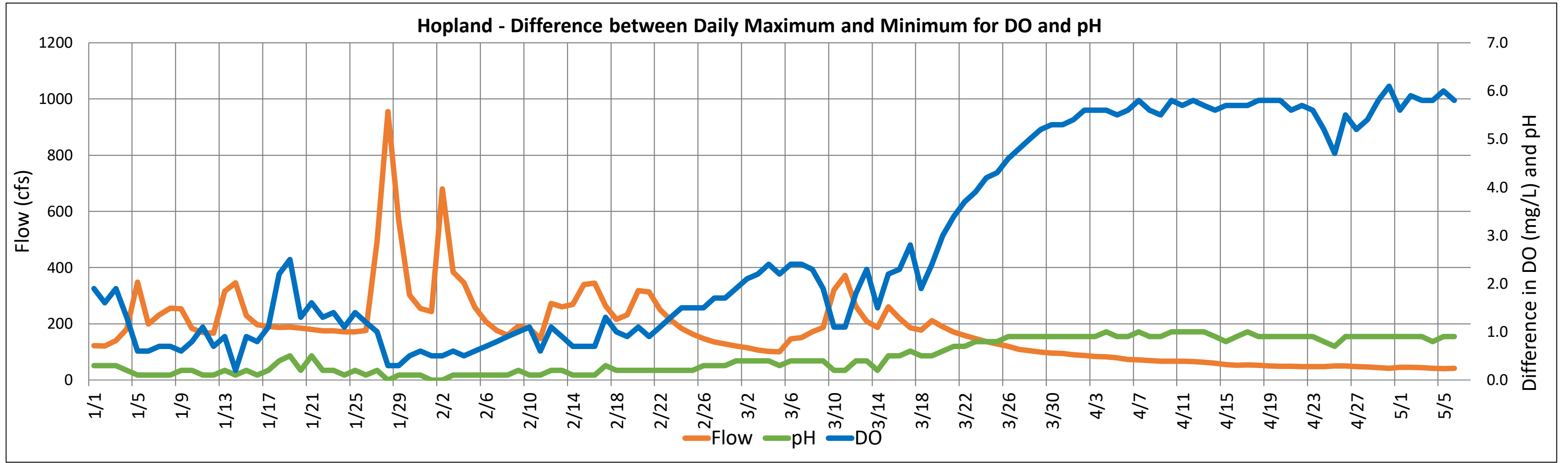
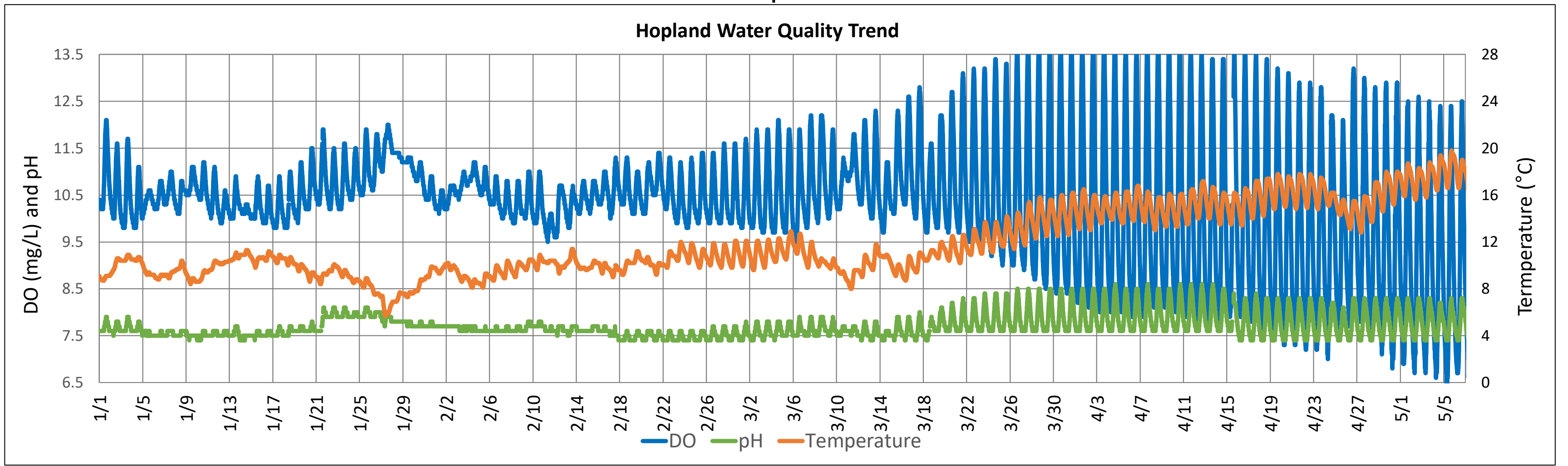
Russian River Water Quality (January 1 - May 6, 2021)

Calpella (East Fork Russian River)

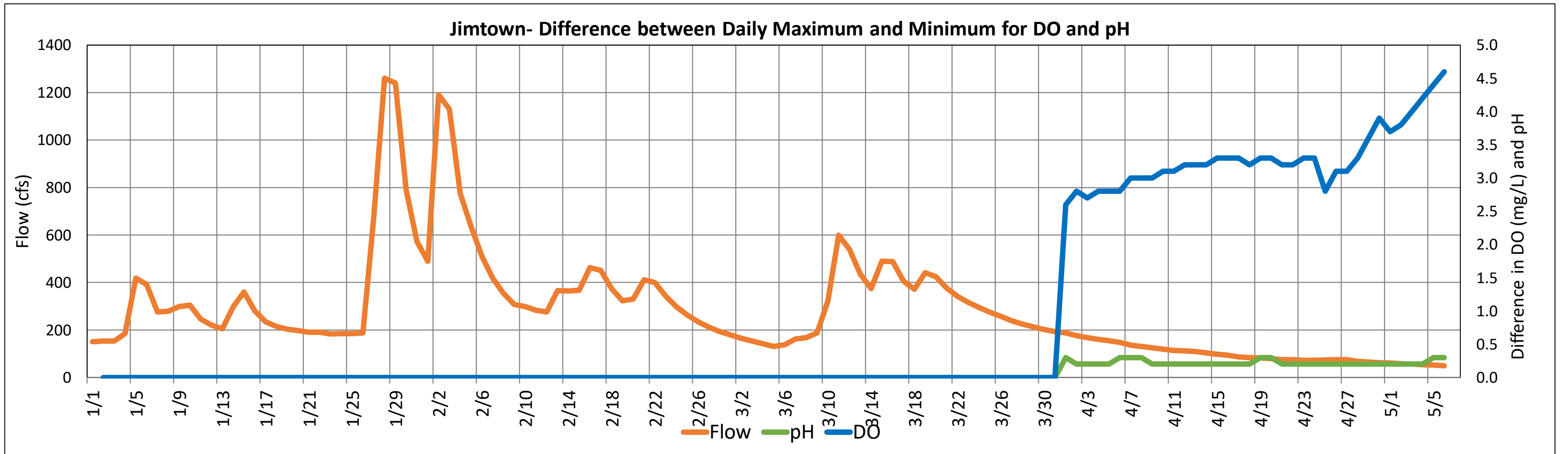
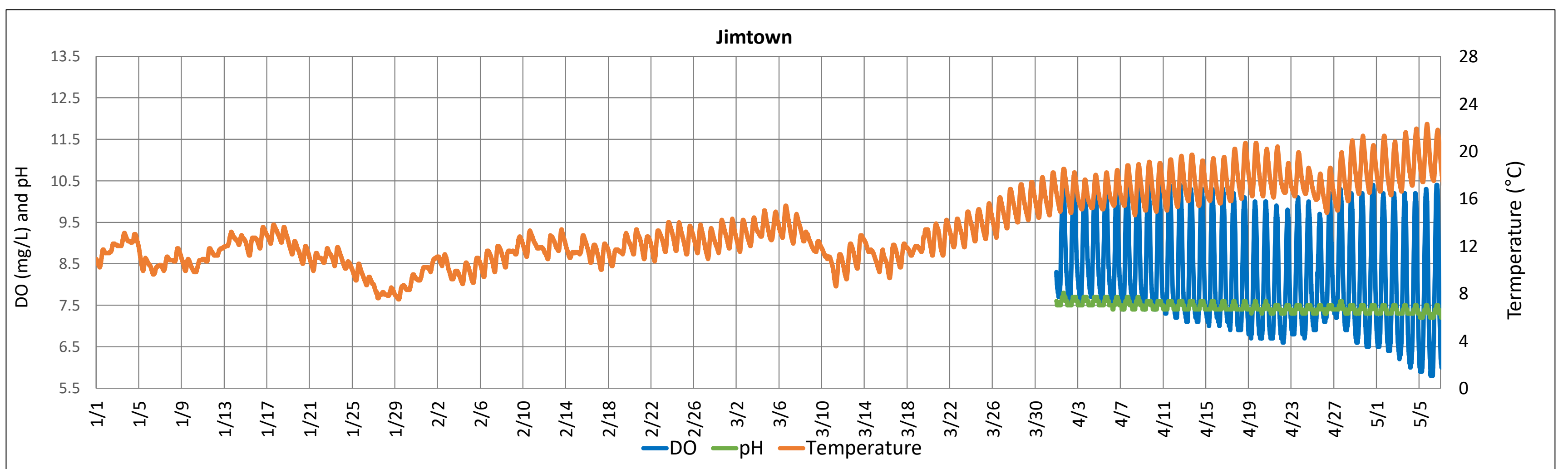


Russian River Water Quality (January 1 - May 6, 2021)

Hopland

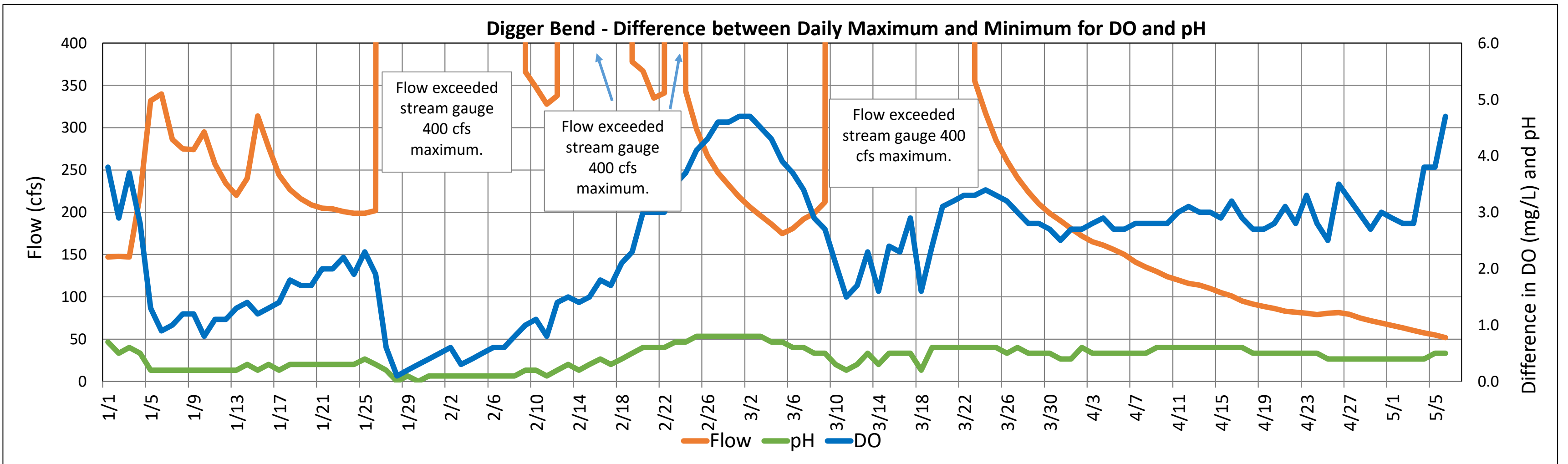
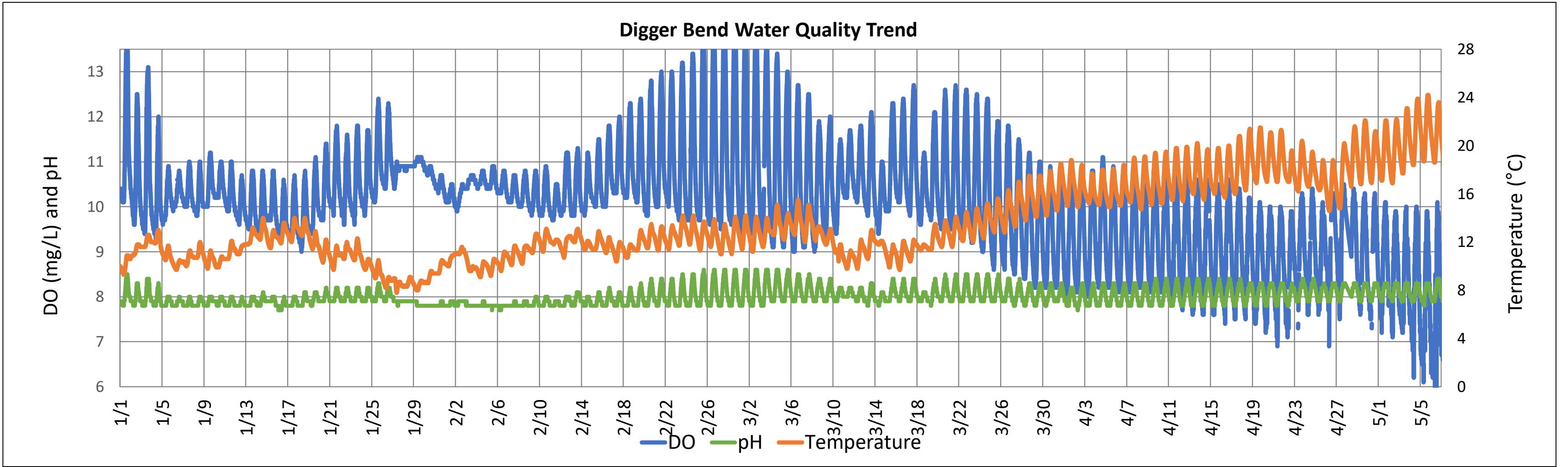


Jimtown Water Quality

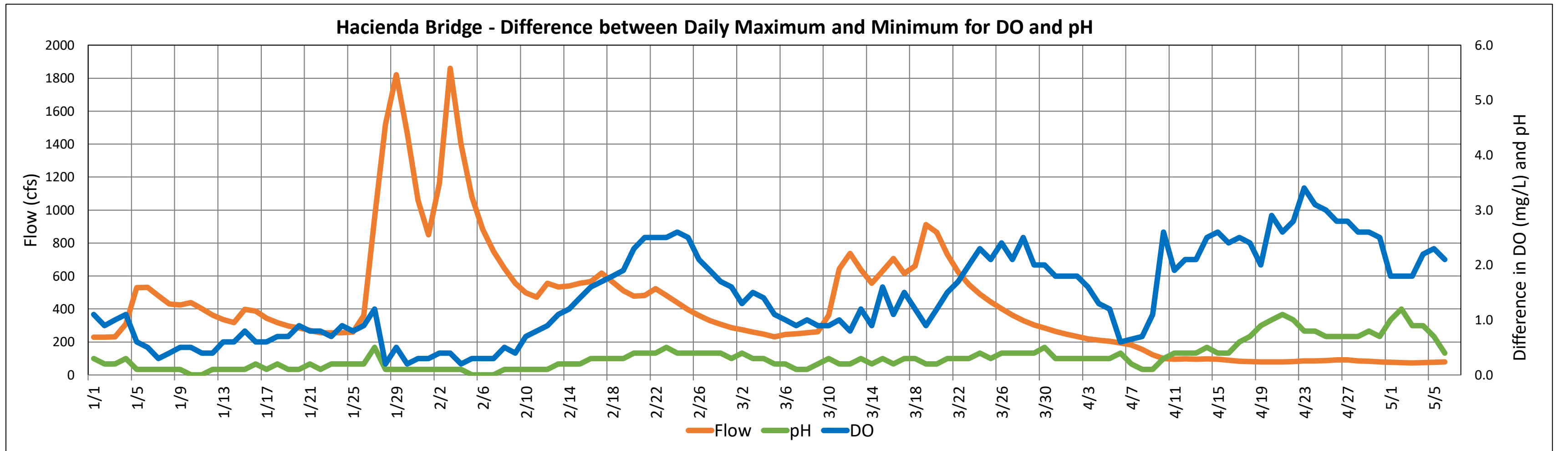
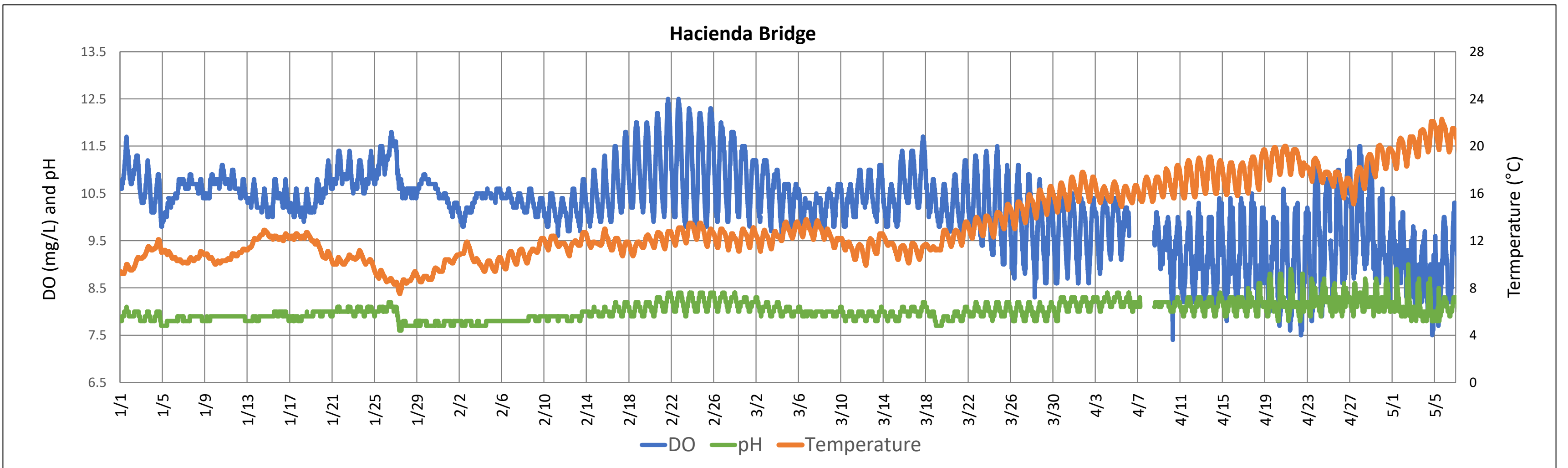


Russian River Water Quality (January 1 - May 6, 2021)

Digger Bend



Hacienda Bridge Water Quality



Russian River Fisheries Monitoring



Report on 5/6/2021: No report for spawning and redd surveys available this week.

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

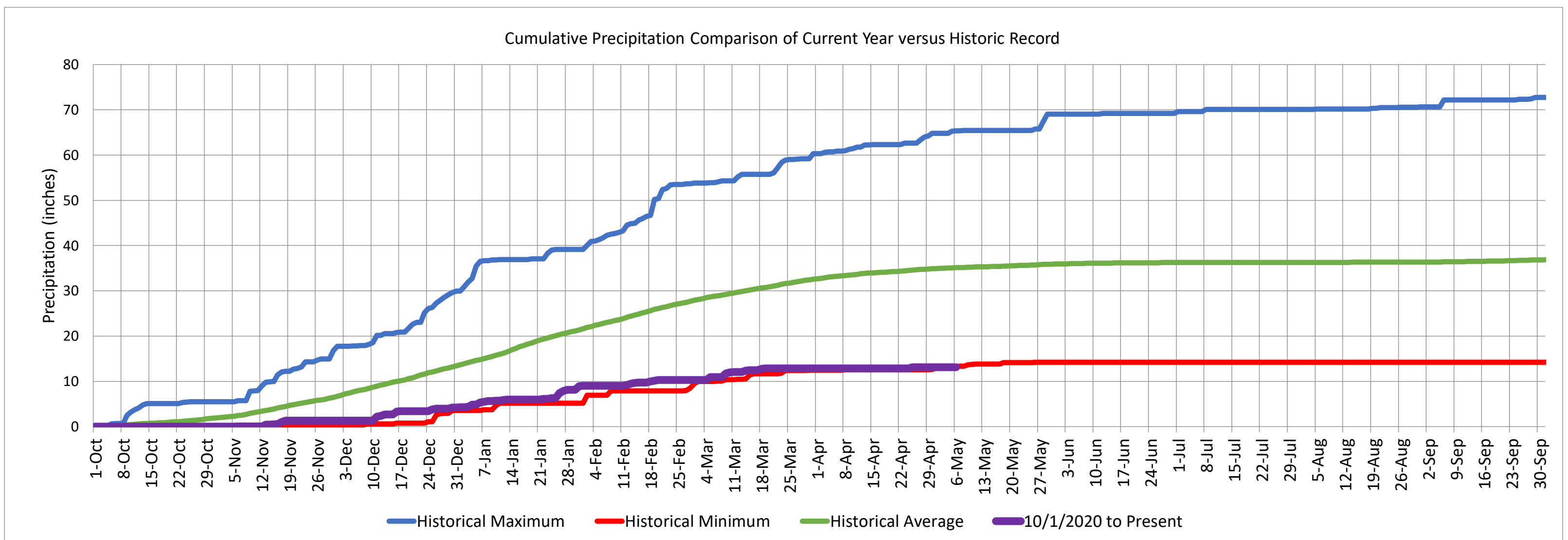
Tributary	Reach	Number of Trips to Date	Earliest Survey Date	Previous Week Survey	Recent Survey Date
Dry Creek	Dry Creek	11	2/7/2021	4/18/2021	4/25/2021
Russian River	Alexander Valley	10	2/14/2021	4/18/2021	4/25/2021
Russian River	Upper Mainstem	10	2/14/2021	4/18/2021	4/25/2021

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

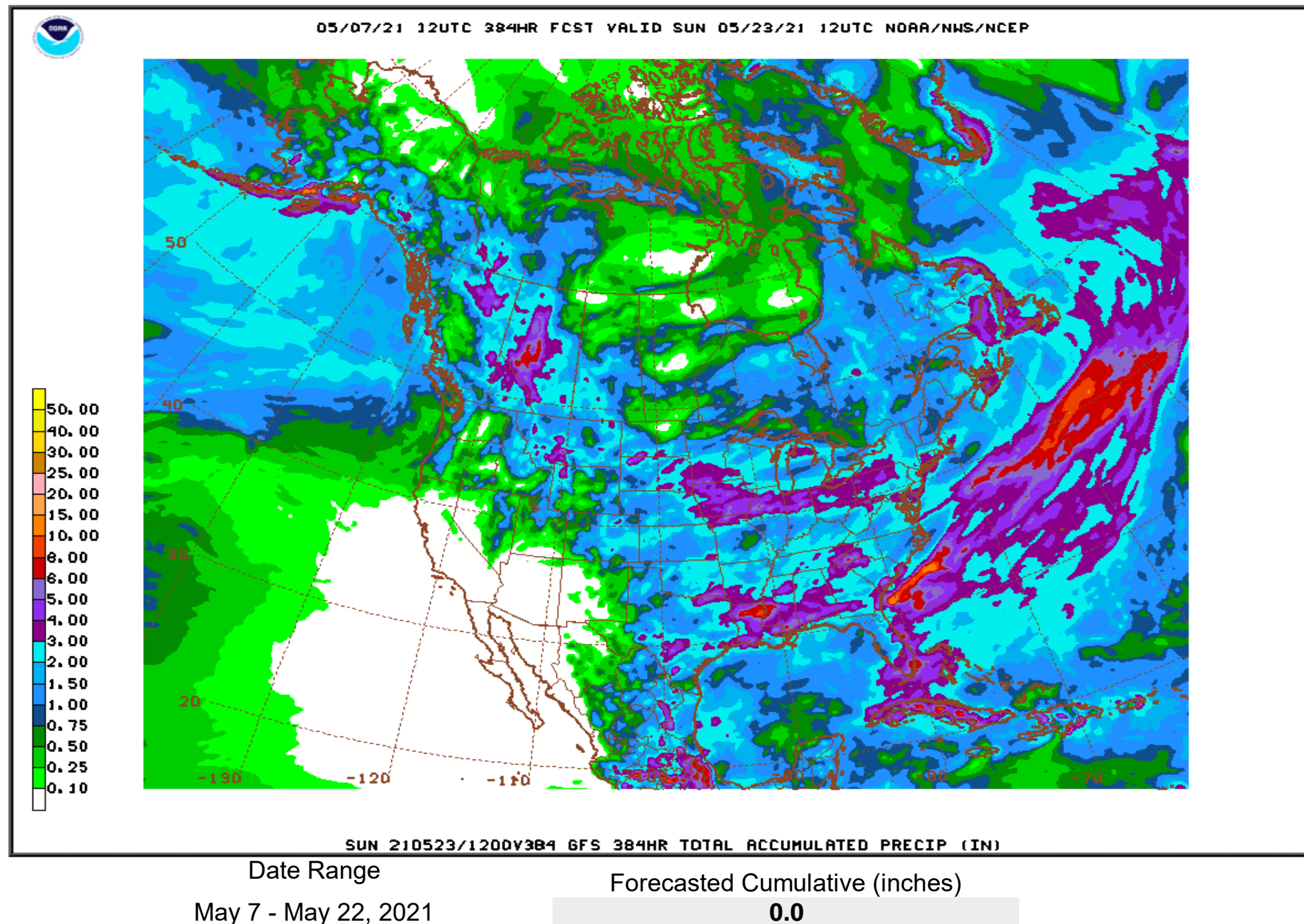
*Redd counts may include old redds that were observed in previous surveys.

Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2020 - May 6, 2021	13.12
Last 7 Days*	0.00



Global Forecast System Model 16-day Cumulative Precipitation Forecast



Lake Mendocino Water Accounting Weekly Report (Term 11)

Report Date: 5/6/2021

Units are cfs unless noted otherwise

	4/29/2021	4/30/2021	5/1/2021	5/2/2021	5/3/2021	5/4/2021	5/5/2021
I. Upper East Fork Reach							
Potter Valley Project							
Tunnel Diversion	55.0	55.0	55.0	55.0	55.0	55.0	35.0
PVID Canals Release Request	50.0	50.0	50.0	50.0	50.0	50.0	50.0
PVID Canals Actual Release	22.1	23.8	23.7	23.8	23.8	23.7	21.9
East Fork Release	32.9	31.2	31.3	31.2	31.2	31.3	13.1
PVID Canal Return Flow (assumed)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PVID Canal Diversions	22.1	23.8	23.7	23.8	23.8	23.7	21.9
PVID E Fork Diversions (est.)	3.7	3.7	12.2	12.2	12.2	12.2	12.2
PVID Water Use under PG&E Contract (est.)	22.1	23.8	23.7	23.8	23.8	23.7	21.9
PVID Water Use under Water Right (est.)	3.7	3.7	12.2	12.2	12.2	12.2	12.2
East Fork / Potter Valley Reach Analysis							
USGS E Fork @ Calpella	29.1	28.8	29.9	28.0	32.4	31.0	30.7
Net Reach Loss(-)/Gain(+)	-25.9	-26.2	-25.1	-27.0	-22.6	-24.0	-4.3
Unimpaired Natural Flow @ Calpella (est.)	11.5	11.3	11.6	11.4	11.4	11.3	11.3
Non-PVID East Fork Estimated Reach Losses	11.7	10.0	0.8	2.4	-1.9	-0.6	-18.4
Natural Flow	5.8	5.0	0.4	1.2	0.0	0.0	0.0
Import	5.8	5.0	0.4	1.2	0.0	0.0	0.0
II. Lake Mendocino							
Reservoir Operations							
Calculated Inflow (ac-ft)	76.7	89.3	74.6	61.6	91.4	77.4	79.7
(cfs)	39	45	38	31	46	39	40
Natural Flow	15	23	19	13	27	20	39
Import	23	22	19	18	19	19	1
Storage Change (ac-ft)	+0.0	+14.0	+0.0	-14.0	+14.0	+0.0	+0.0
(cfs)	+0	+7	+0	-7	+7	+0	+0
Stored Natural Flow (cfs)	0	4	0	0	5	0	0
Stored Import Water (cfs)	0	3	0	0	2	0	0
Evaporation (ac-ft)	19.2	17.7	18.4	18.4	19.9	19.9	22.2
RVCWD Diversion (ac-ft)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CVD Release Gage	29	29	28	29	29	29	29
Storage (Project Water)	0	0	0	7	0	0	0
Natural Flow	10	14	14	9	17	15	34
Import Water	19	15	14	13	12	14	0
East Fork Min Instream Flow Requirement	25	25	25	25	25	25	25
Compliance Gage		<i>Rvr mi.</i>					
CVD Release	29	29	28	29	29	29	29
CVD Project Water Release to Meet Min Flow Requirement							
Total Pass-through Water	29	29	28	22	29	29	34
Project Water Release Required	No	No	No	Yes	No	No	No
III. Upper Russian River Reach							
Minimum Instream Flow Requirement	25	25	25	25	25	25	25
Controlling Compliance Gage							
Min Gage Flow	38	38	38	39	39	39	38
Controlling Gage	Talmage	Talmage	Talmage	Talmage	Talmage	Talmage	Talmage
All Compliance Gages							
		<i>Rvr mi.</i>					
Forks (CVD + USGS 11461000)	99.0	52	52	51	52	52	52
Talmage (USGS 11462080)	96.1	38	38	38	39	39	38
Hopland (USGS 11462500)	84.8	44	42	45	45	44	41
Cloverdale (USGS 11463000)	70.9	50	47	46	47	46	43
Geyserville (USGS 11463500)	54.4	55	53	48	45	46	39
Jimtown (USGS 11463682)	48.5	65	63	60	58	57	52
Digger Bend (USGS 11463980)	38.2	72	73	73	73	60	55
Healdsburg (USGS 11464000)	35.6	65	61	60	57	55	50
Net Reach Losses							
Forks - Talmage	-4	-4	-2	-2	-2	-2	-2
Talmage - Hopland	+5	+5	+6	+6	+5	+3	+3
Hopland - Cloverdale	+4	+4	+4	+2	+1	+1	+2
Cloverdale - Jimtown	+15	+16	+15	+11	+10	+10	+9
Jimtown - Digger Bend	+5	+6	+5	+4	+3	+2	+2
Digger Bend - Healdsburg	-7	-8	-7	-7	-6	-6	-6
CVD Project Water Release to Meet Min Flow Requirement							
Net Reach Loss(-)/Gain(+) to Controlling Gage	-4	-4	-2	-2	-2	-2	-2
Storage (Project Water)	-0	-0	-0	+2	-0	-0	+0
Pass-through Water (Natural + Import)	-4	-4	-2	-3	-2	-2	-2
Total Pass-through Water	25	25	26	19	27	27	32
Project Water Release Required	Yes	Yes	No	Yes	No	No	No

Notes:

- Water Accounting for the Upper Russian River is an analysis that approximates the current conditions based on methodology in Term 11 report and forthcoming update. Values listed include estimated and assumed values where measurements were not currently available.