



State Water Resources Control Board
 Temporary Urgency Change Order (2/4/2021)
 Russian River Hydrologic Report
 May 28, 2021 - June 3, 2021

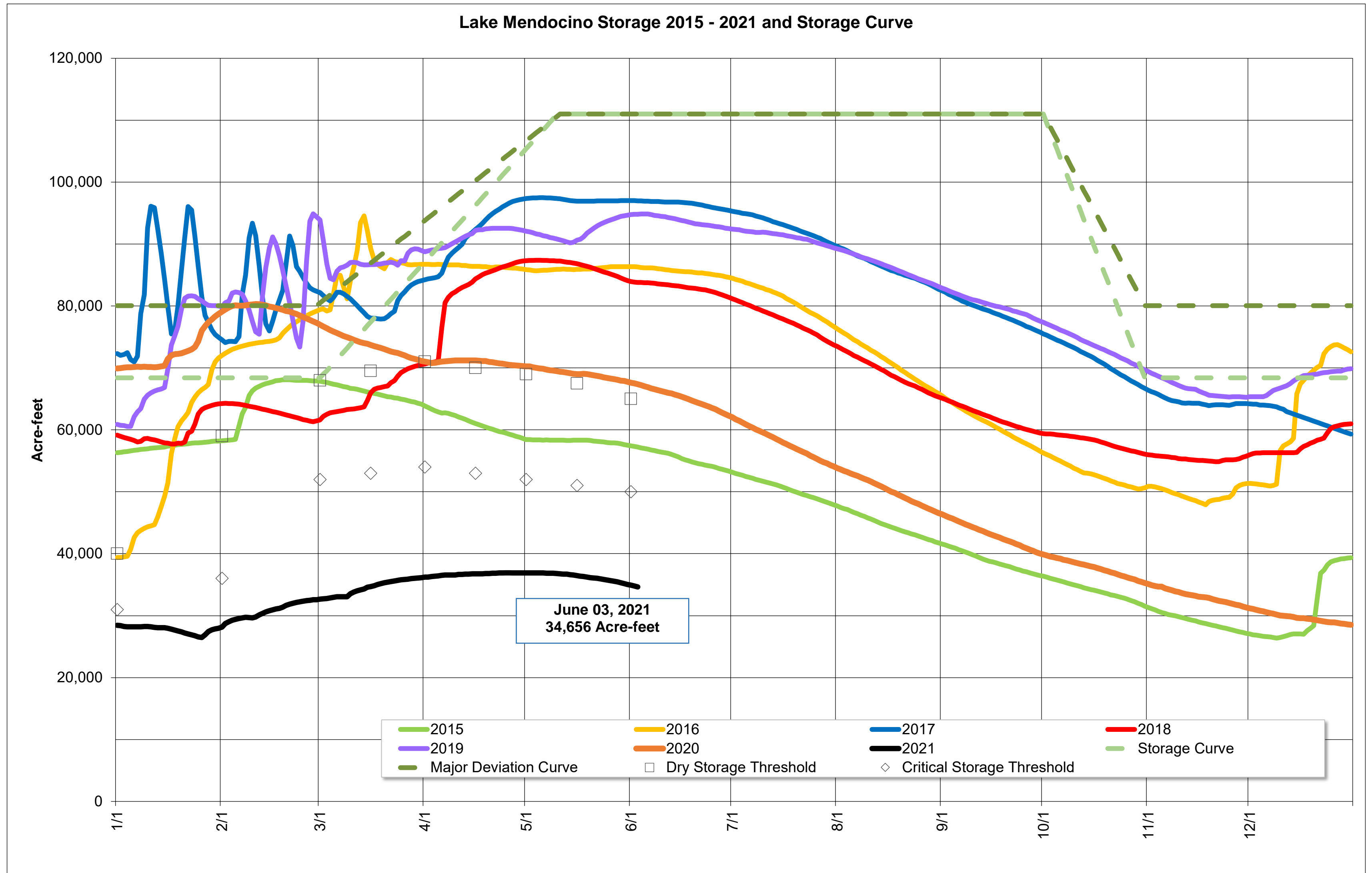
Prepared as a requirement of the Order approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A (Applications 12919A).

Instream Flow Requirements as of June 3, 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

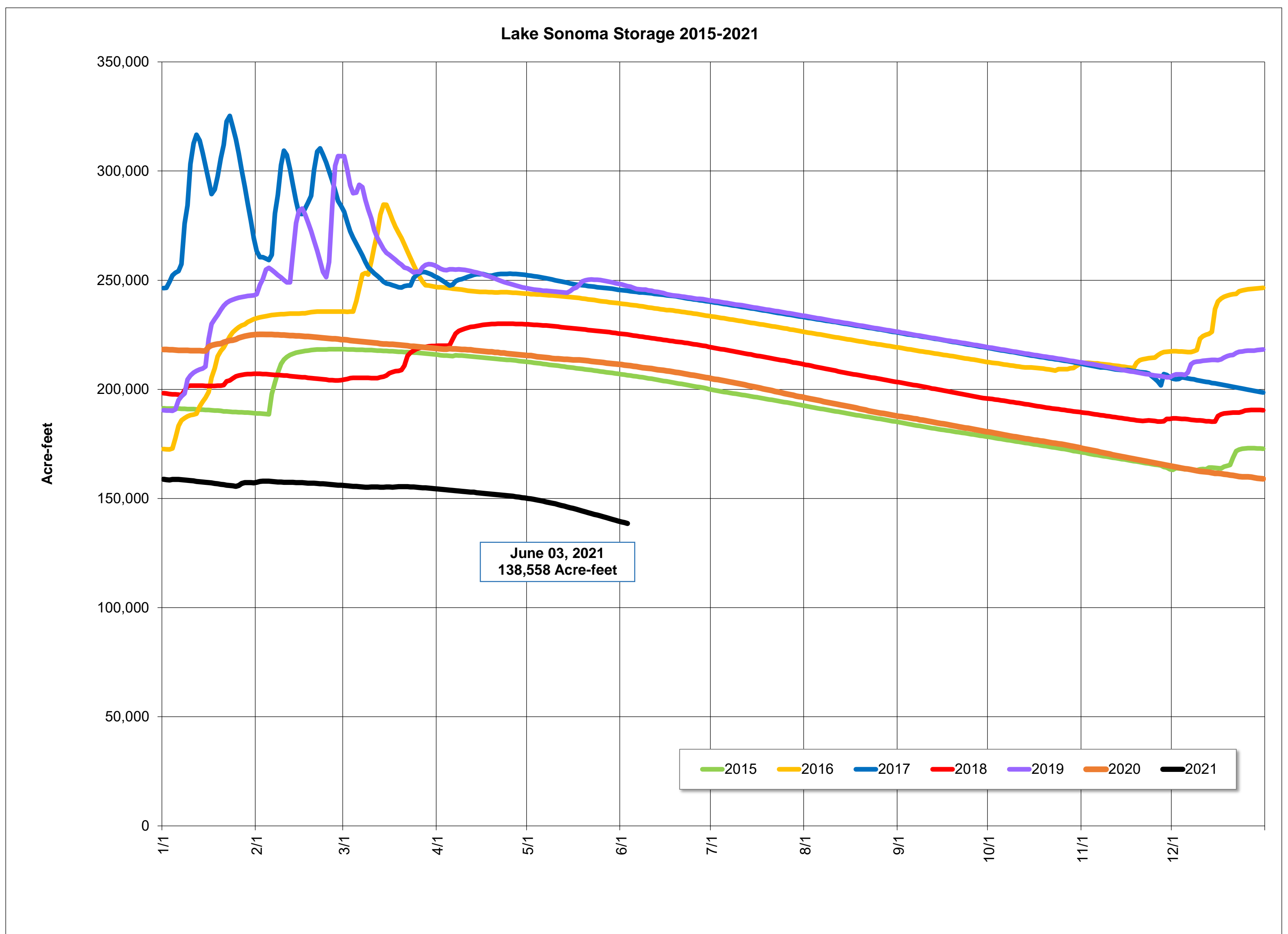


Storage (acre-feet)	June 3, 2021	34,656	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
	Last 7 days	-2,241	-75
Daily Inflow (cfs)	Last 7 days	Min	12
		Max	25
		Mean	17
Release (cfs)	Last 7 days	Min	60
		Max	70
		Mean	68

Lake Sonoma



Nathan Baskett, March 3, 2021



Storage (acre-feet)	June 3, 2021	138,558	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
		-10,735	-358
	Last 7 days	-2,661	-380
Daily Inflow (cfs)	Last 7 days	Min	0
		Max	27
		Mean	3
Release (cfs)	Last 7 days	Min	171
		Max	190
		Mean	183

Potter Valley Project

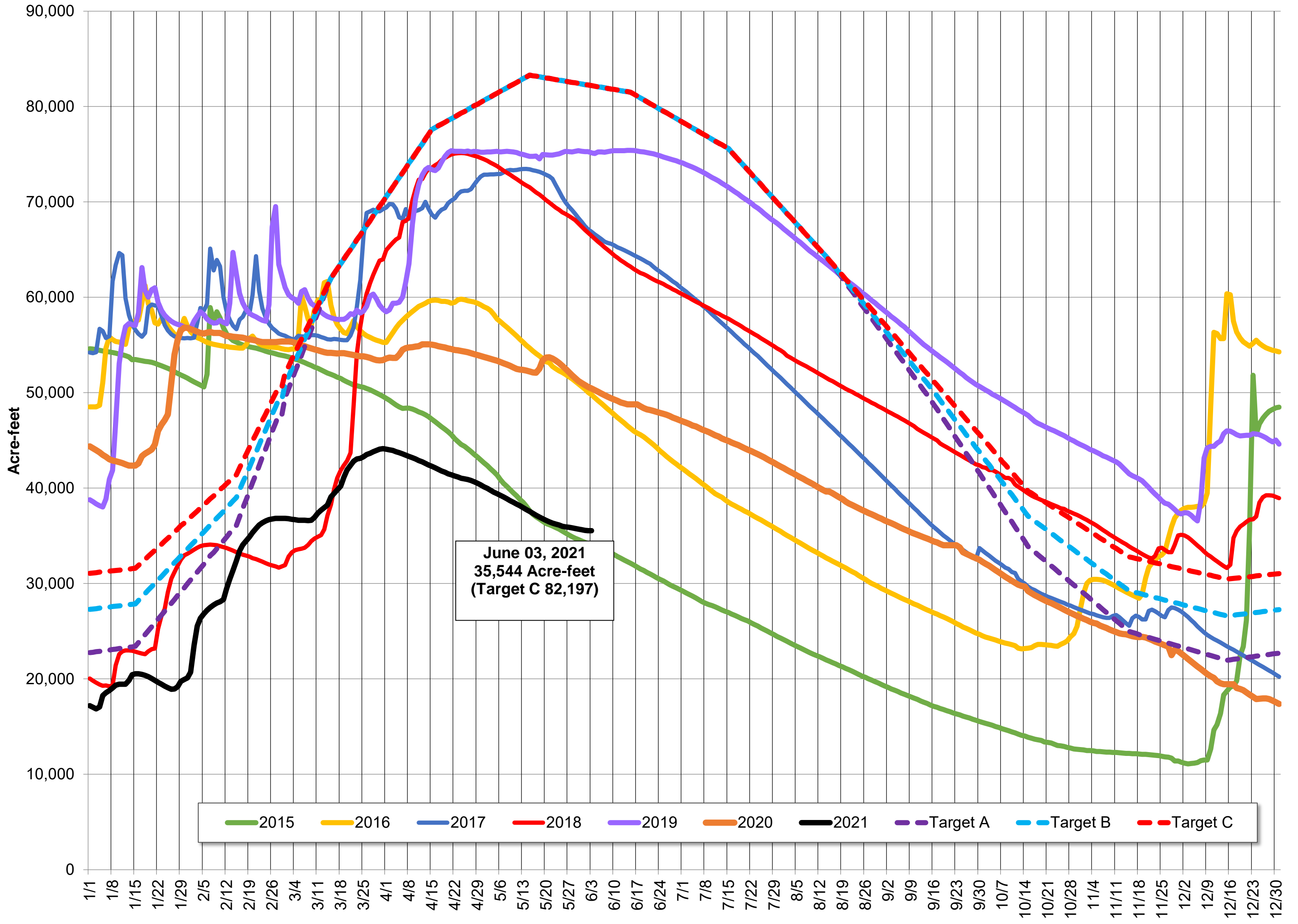
PVP Diversion (cfs)	June 3, 2021	30
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Lake Pillsbury

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2020 - June 3, 2021	86,121	352
	Last 7 days	772	110

*Inflow calculation based on criteria established in D1610

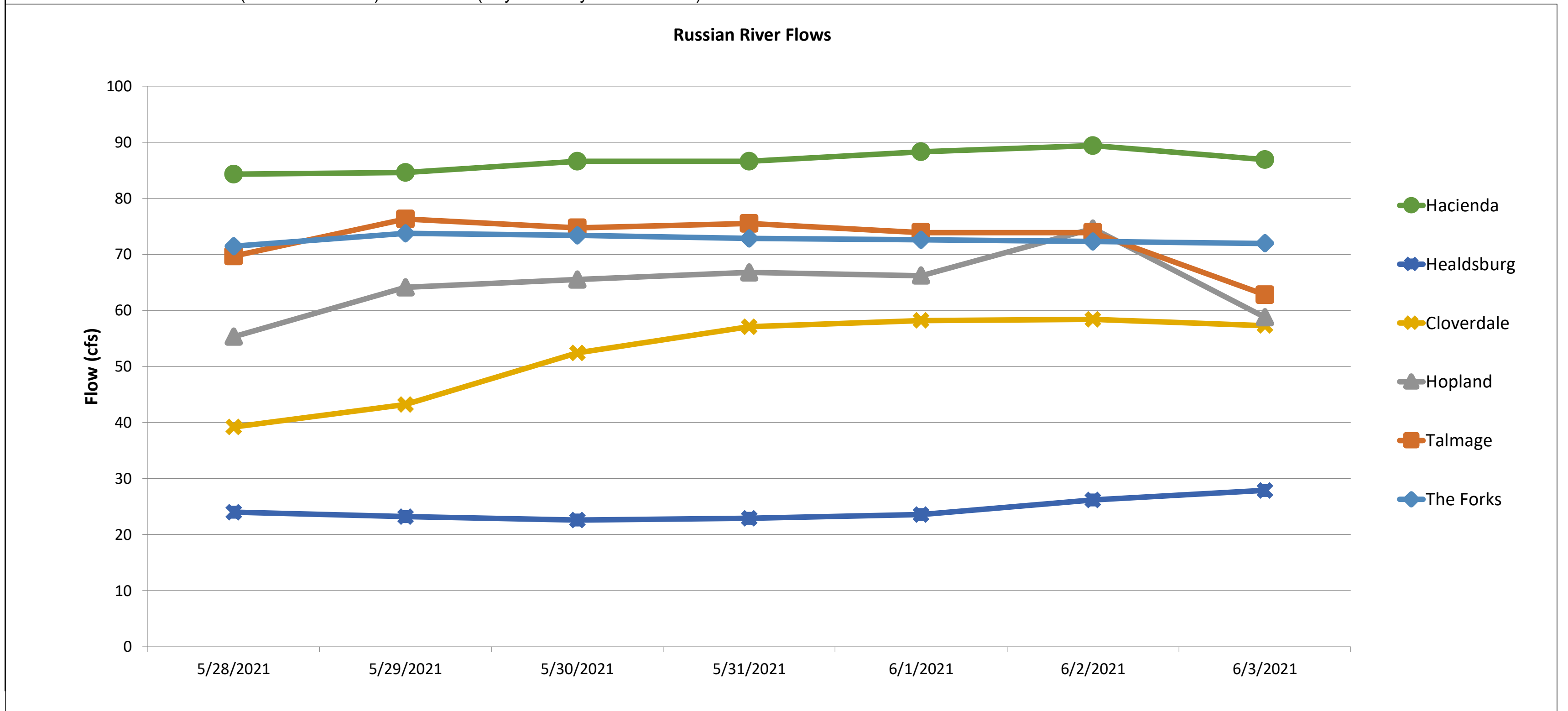
Lake Pillsbury Storage 2015-2021 and Target Storage Scenarios

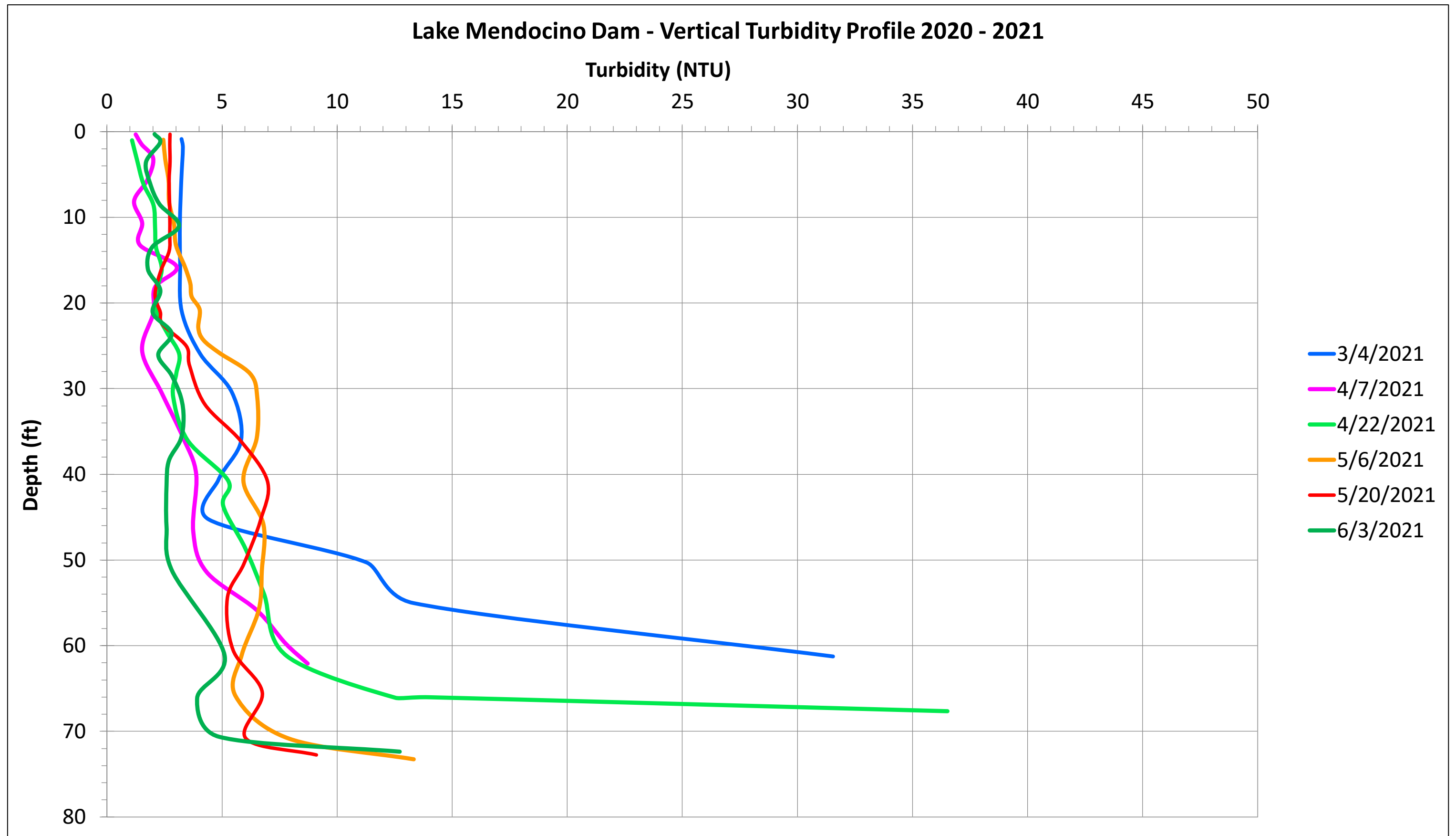
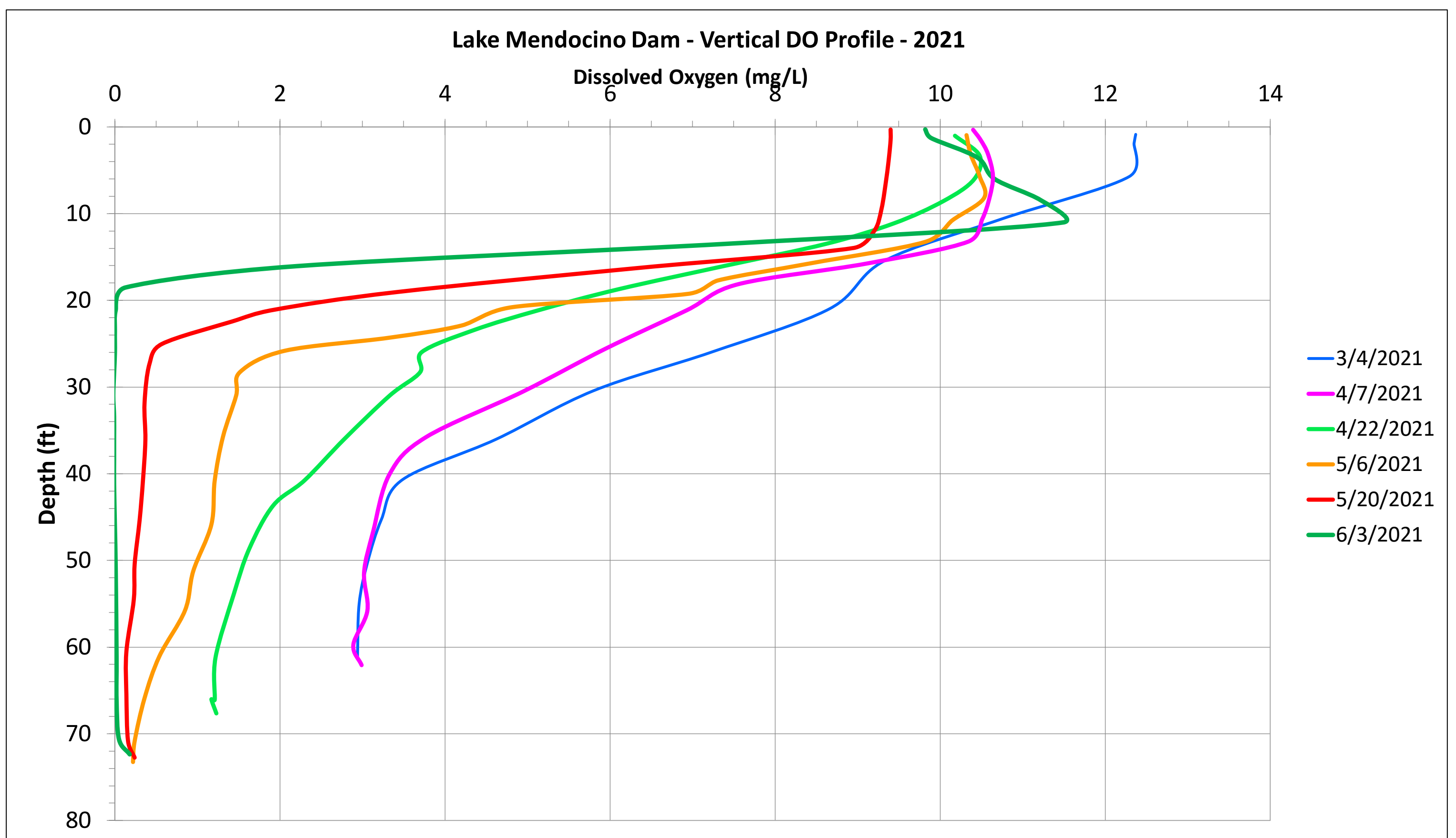
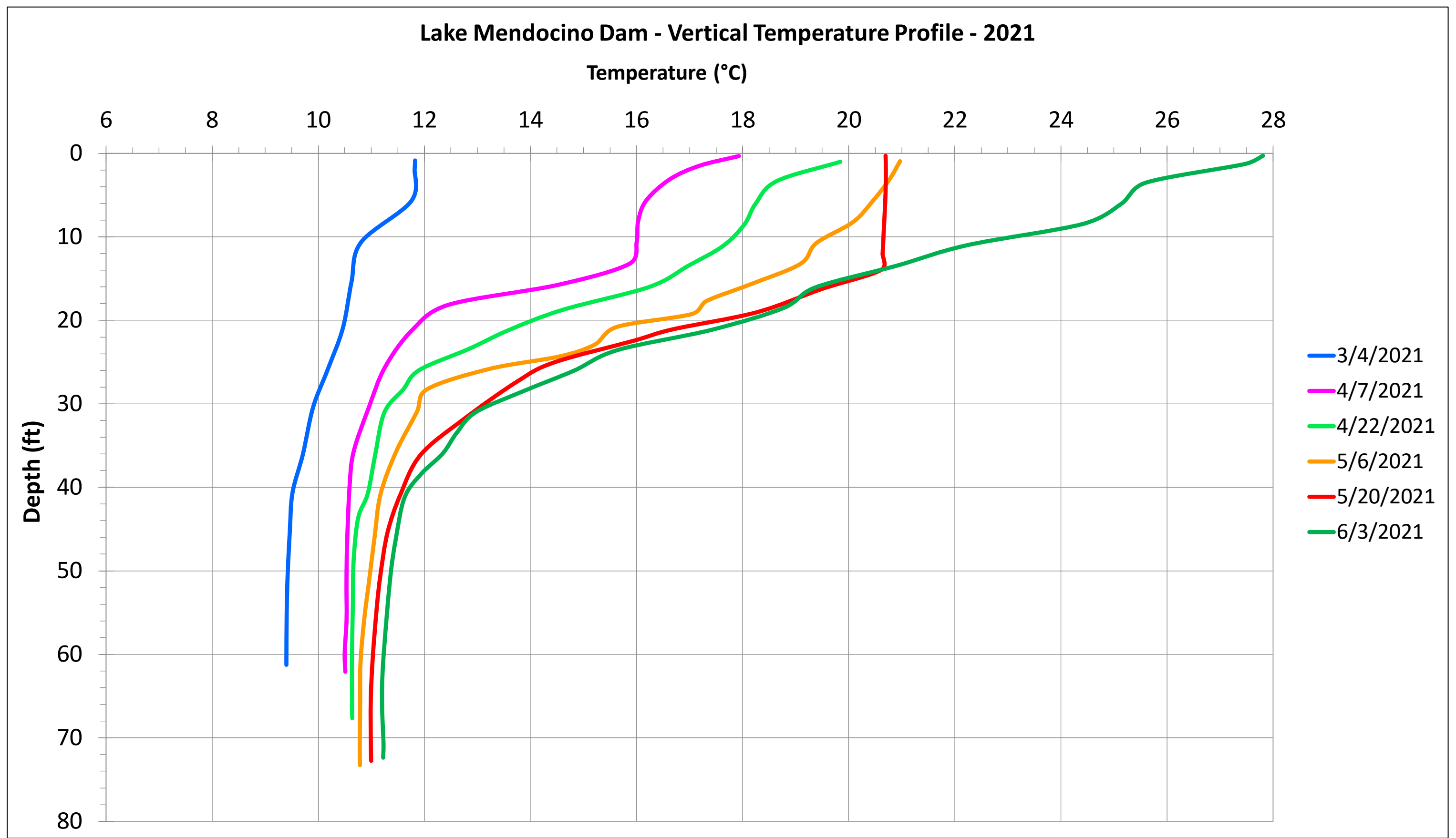


Russian River Flows (May 28 - June 3, 2021)

Gage	24-hr Average Flow (cfs)						
	May 28, 2021	May 29, 2021	May 30, 2021	May 31, 2021	Jun 1, 2021	Jun 2, 2021	Jun 3, 2021
The Forks*	71	74	73	73	73	72	72
Talmage USGS 11462080	70	76	75	76	74	74	63
Hopland USGS 11462500	55	64	66	67	66	75	59
Cloverdale USGS 11463000	39	43	52	57	58	58	57
Healdsburg USGS 11464000	24	23	23	23	24	26	28
Hacienda USGS 11467000	84	85	87	87	88	89	87

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

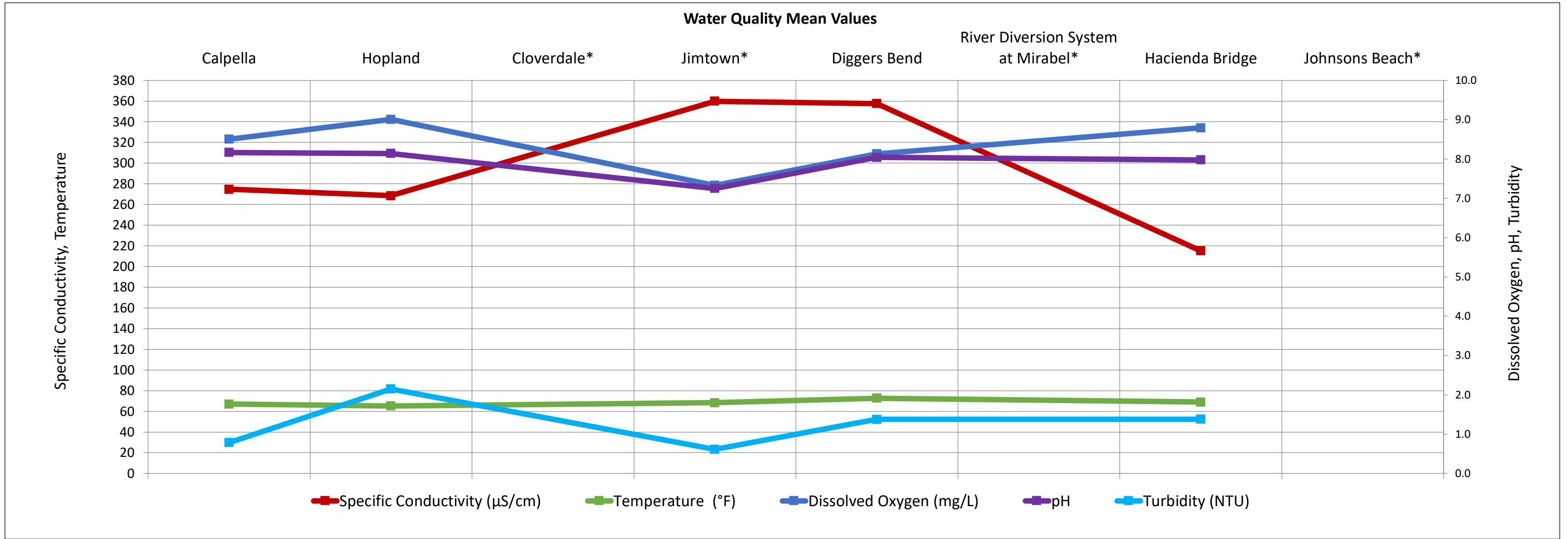




Russian River Water Quality (May 28 - June 3, 2021)

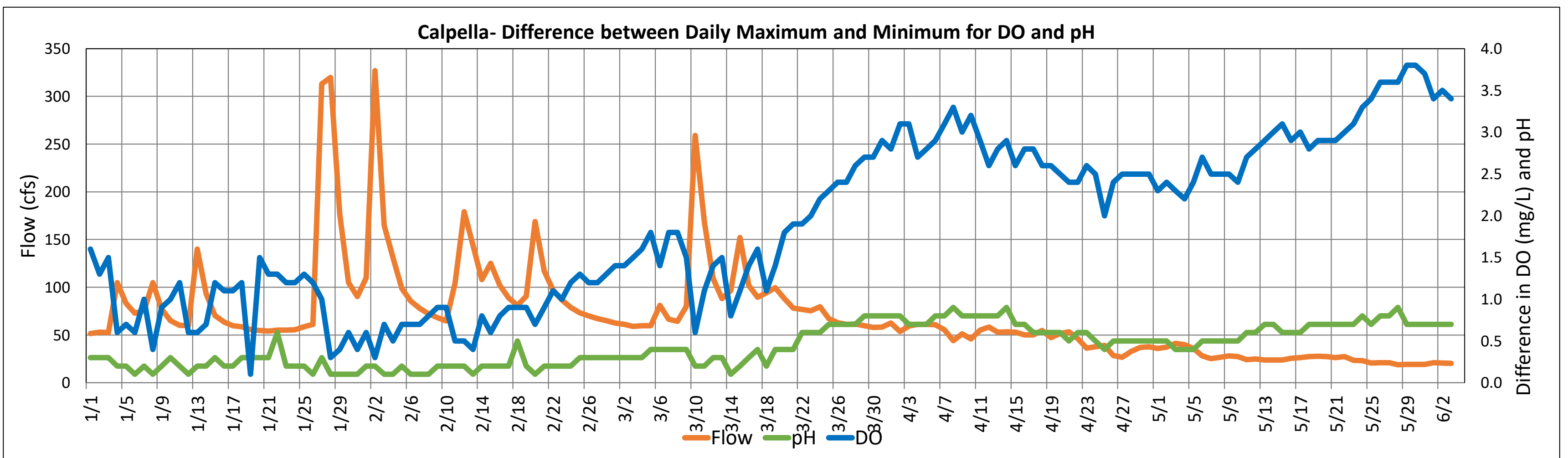
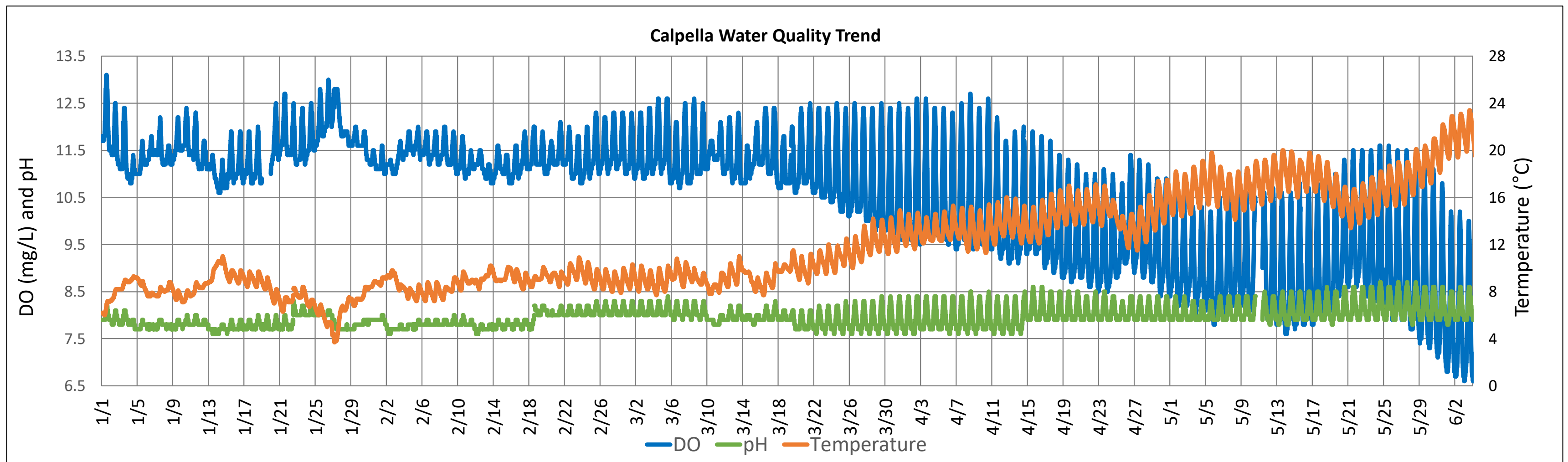
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463200	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	59.7	61.0		62.1	65.8		65.1	
	Max	73.6	69.3		74.3	79.3		72.0	
	Mean	67.0	65.2		68.3	72.6		68.9	
Specific Conductivity (µS/cm)	Min	266	264		356	355		212	
	Max	283	279		364	360		220	
	Mean	275	269		360	357		215	
Dissolved Oxygen (mg/L)	Min	6.7	6.6		4.7	5.9		7.6	
	Max	11.5	12.4		10.7	10.5		9.8	
	Mean	8.5	9.0		7.3	8.1		8.8	
Dissolved Oxygen (% Saturation)	Min	66	67		48	62		80	
	Max	134	136		125	129		112	
	Mean	92	95		81	93		97	
pH	Min	7.8	7.7		7.1	7.8		7.5	
	Max	8.7	8.7		7.5	8.3		8.2	
	Mean	8.2	8.1		7.2	8.0		8.0	
Turbidity (NTU)	Min	0.5	1.2		0.2	0.2		0.7	
	Max	8.5	4.1		1.7	4.1		2.7	
	Mean	0.8	2.1		0.6	1.4		1.4	

*Station operated seasonally



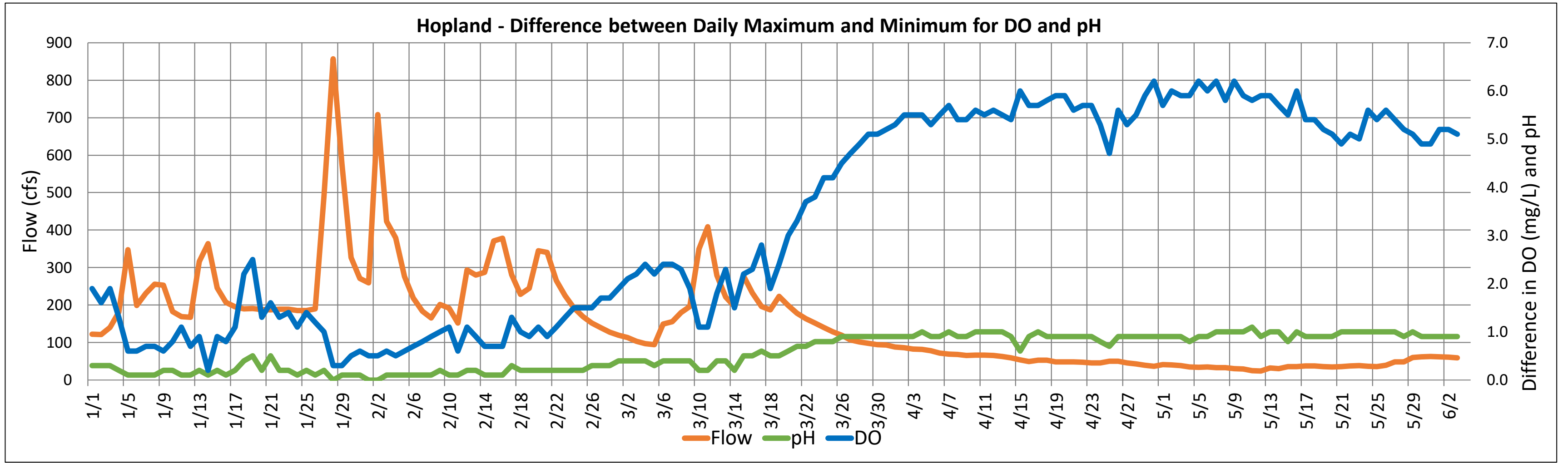
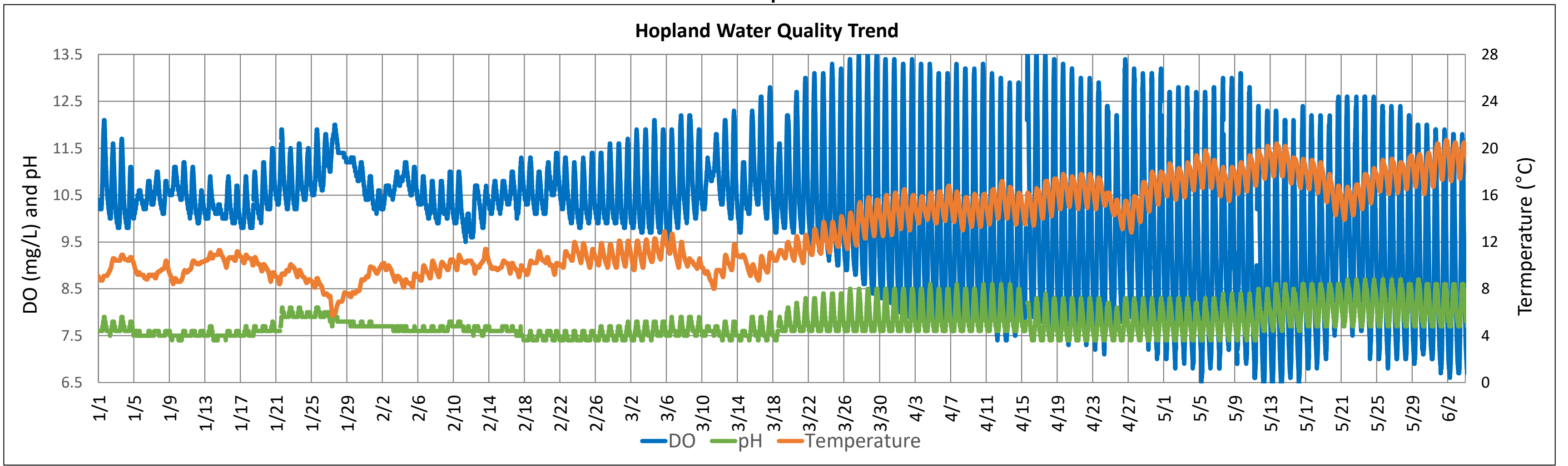
Russian River Water Quality (January 1 - June 3, 2021)

Calpella (East Fork Russian River)

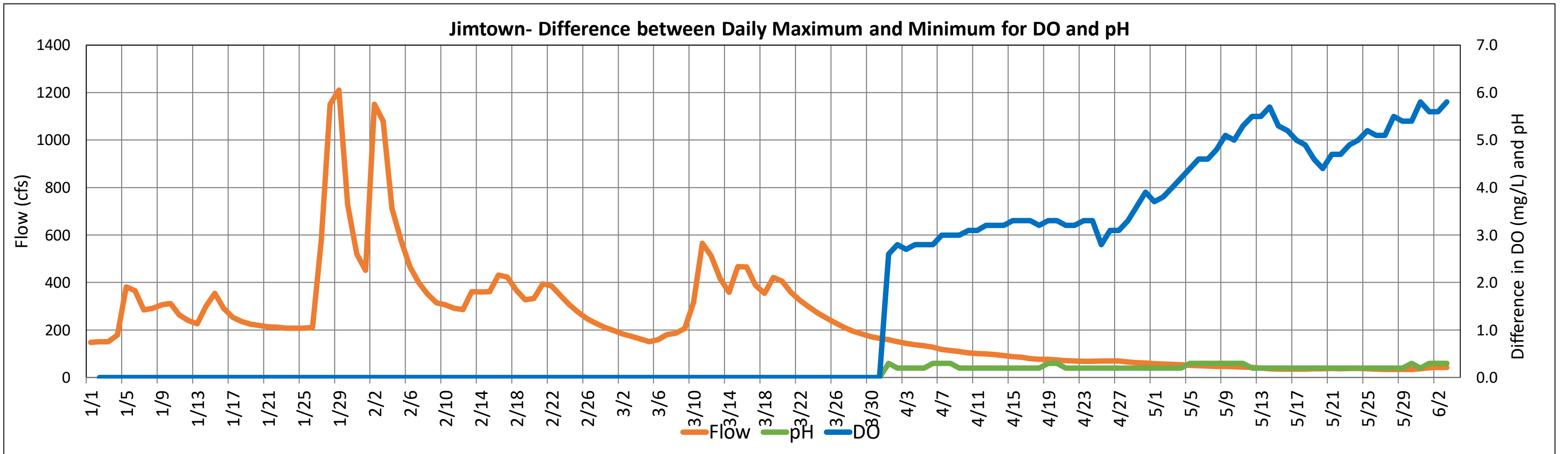
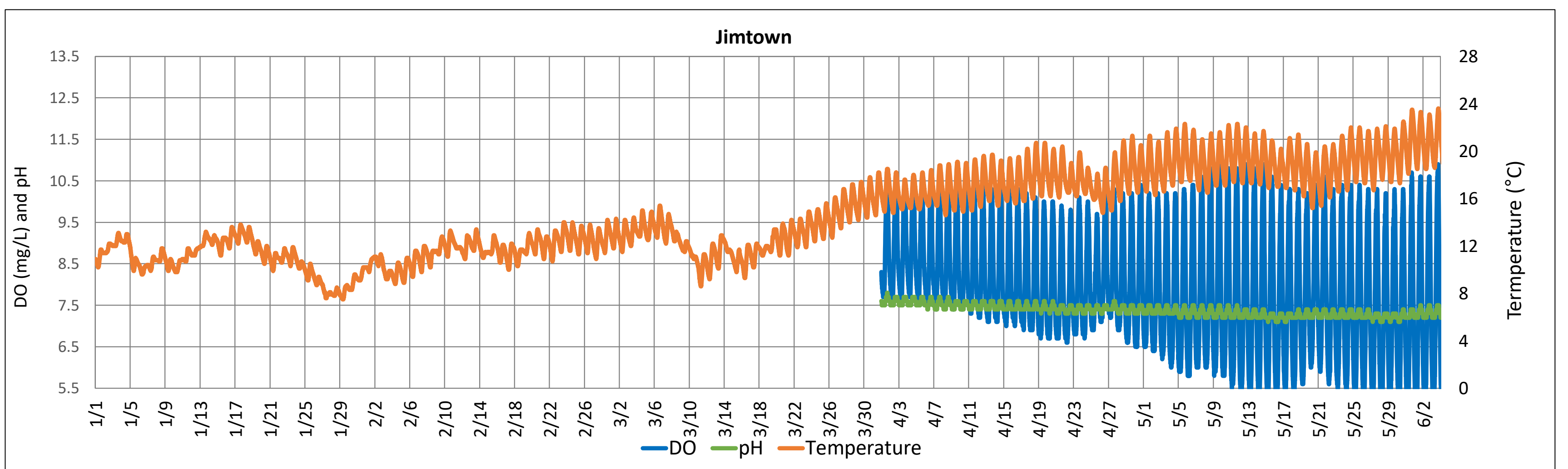


Russian River Water Quality (January 1 - June 3, 2021)

Hopland

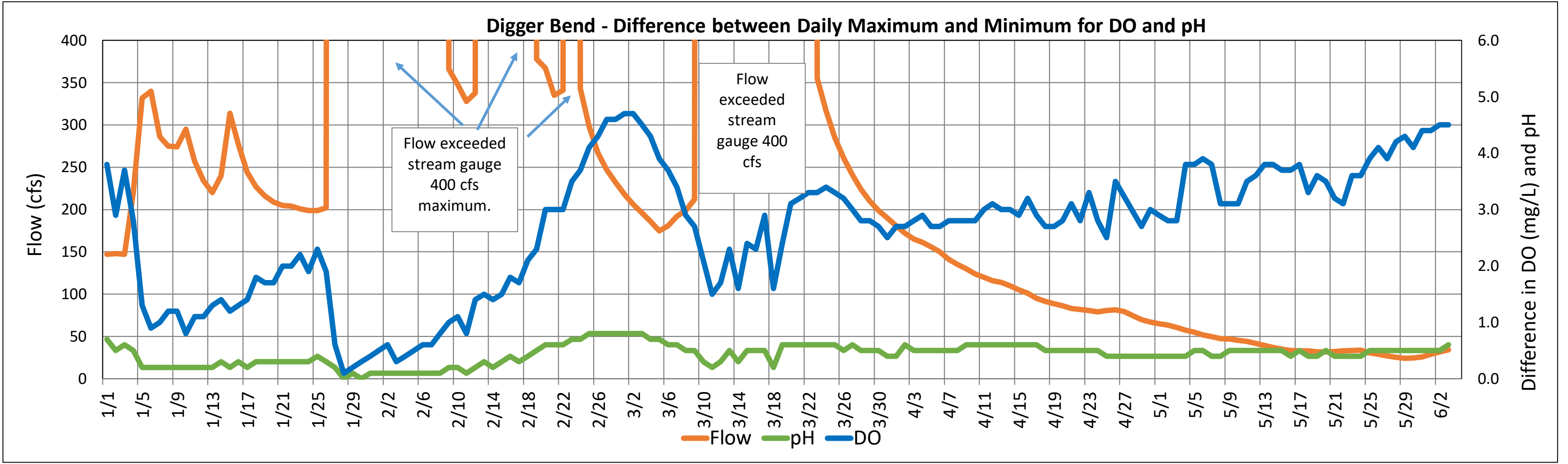
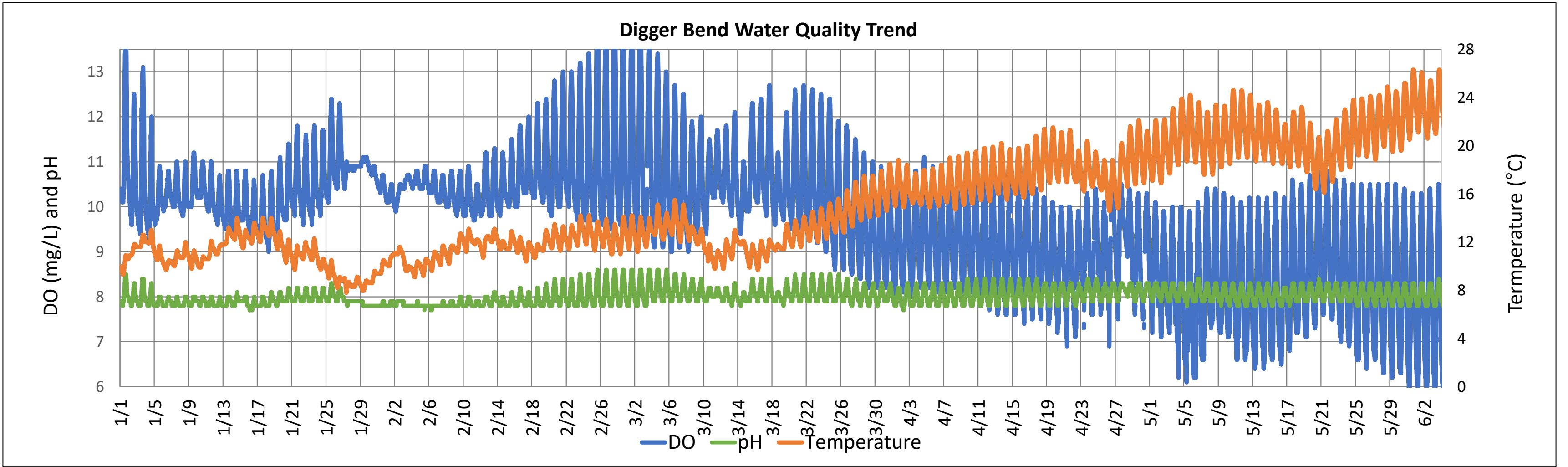


Jimtown Water Quality

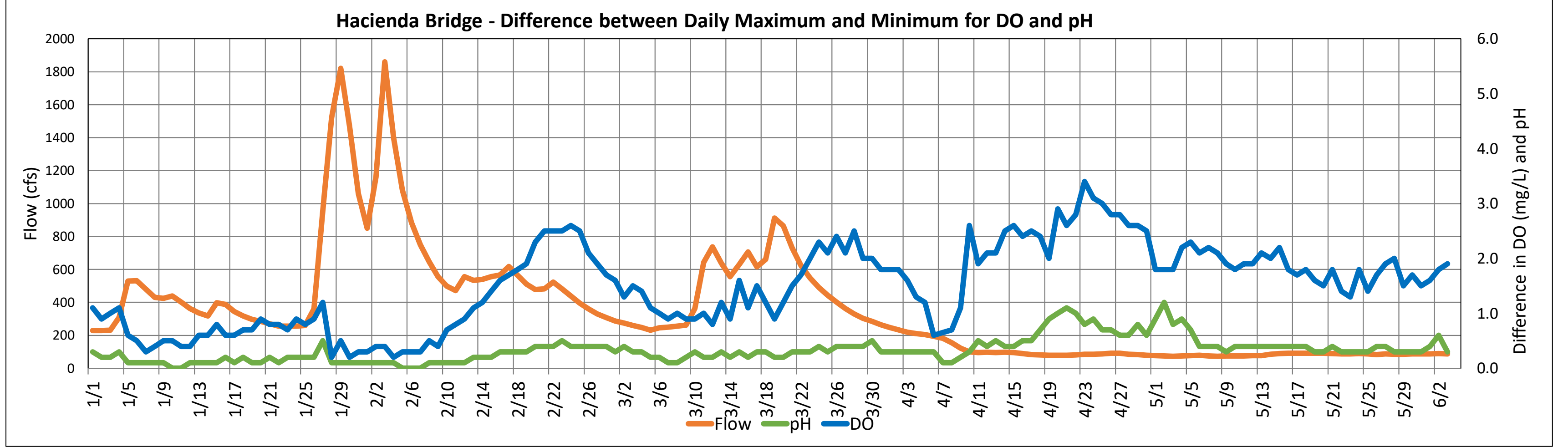
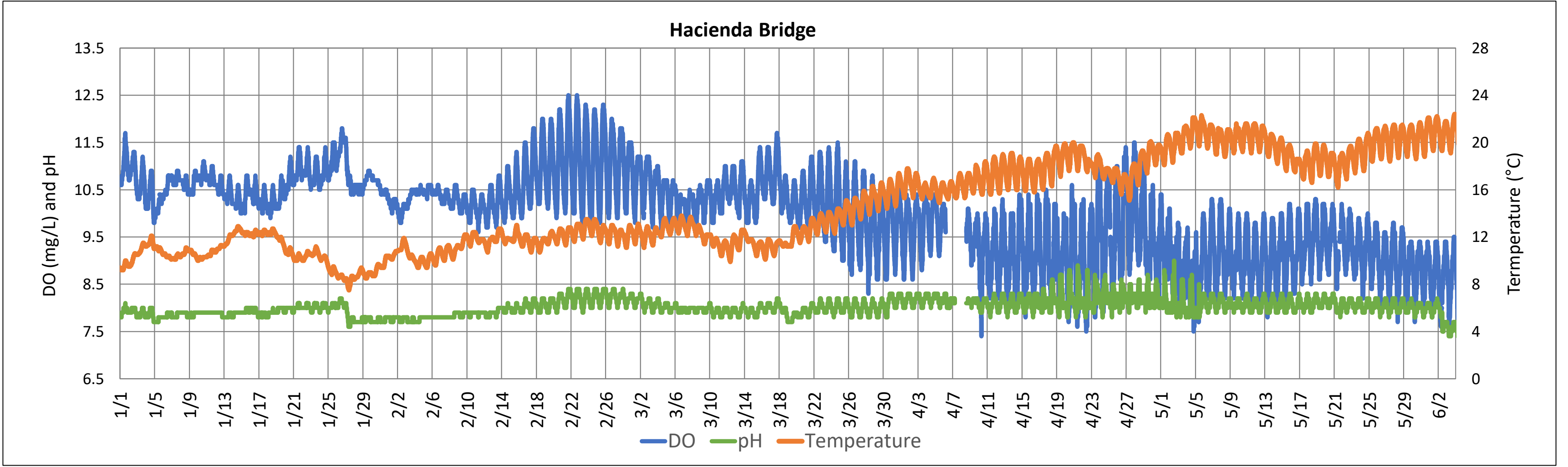


Russian River Water Quality (January 1 - June 3, 2021)

Digger Bend

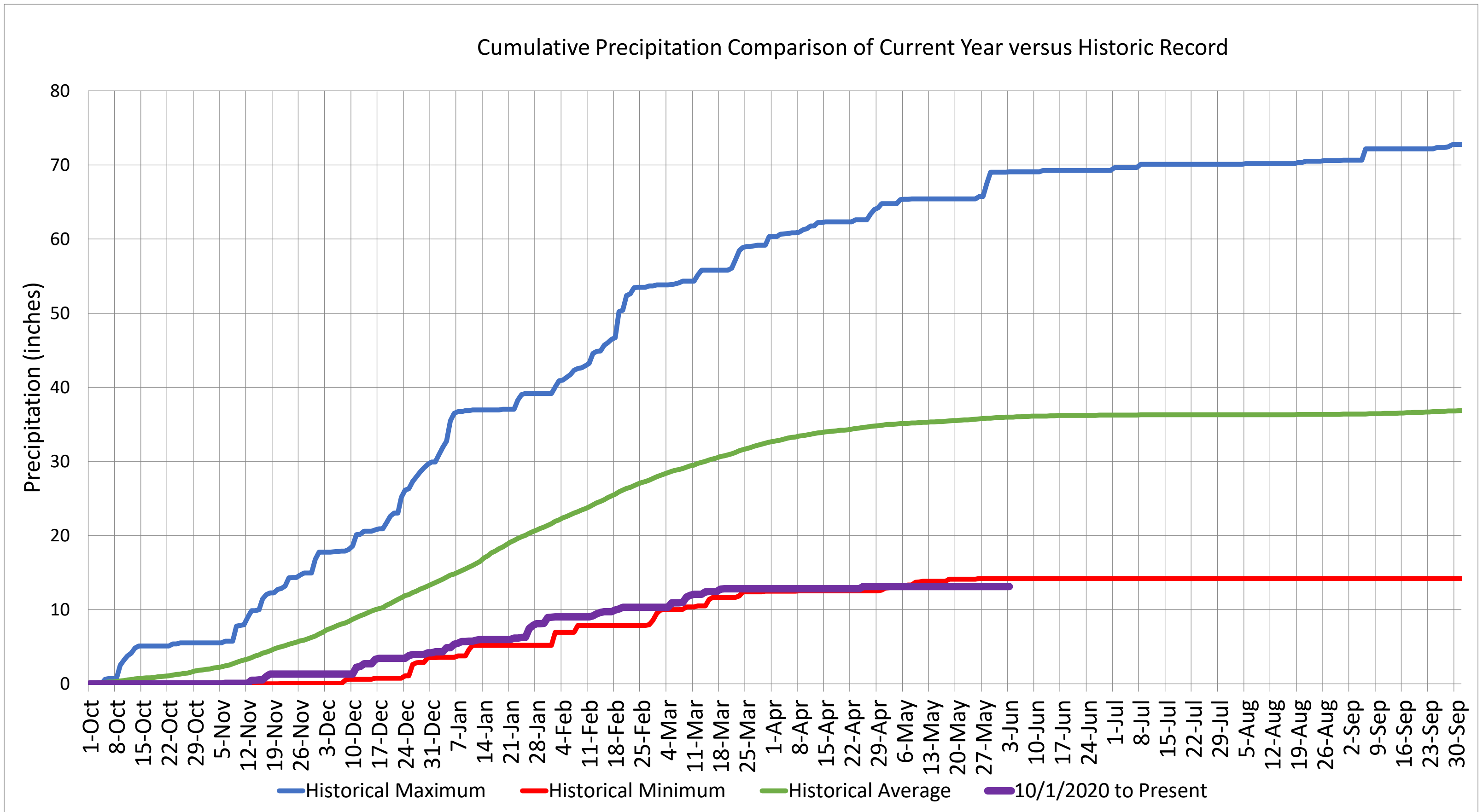


Hacienda Bridge Water Quality

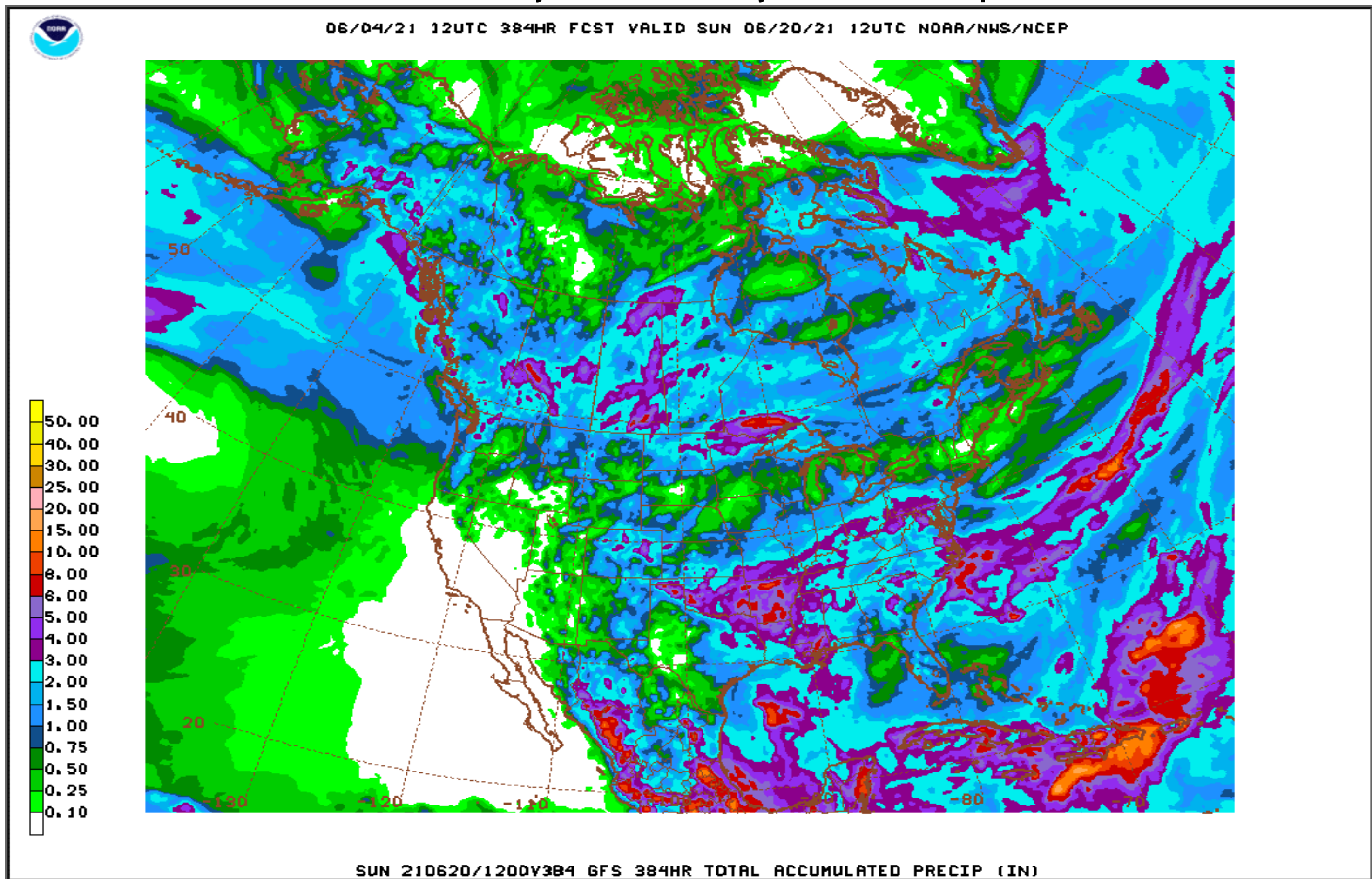


Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2020 - Jun 3, 2021	13.12
Last 7 Days*	0.00



Global Forecast System Model 16-day Cumulative Precipitation Forecast



Date Range	Forecasted Cumulative (inches)
Jun 4 - Jun 19, 2021	0.0

Lake Mendocino Water Accounting Weekly Report (Term 11)

Report Date: 6/4/2021

Units are cfs unless noted otherwise

	5/28/2021	5/29/2021	5/30/2021	5/31/2021	6/1/2021	6/2/2021	6/3/2021
I. Upper East Fork Reach							
Potter Valley Project							
Tunnel Diversion	30.0	30.0	30.0	30.0	30.0	30.0	32.0
PVID Canals Delivery Requested	25.0	25.0	25.0	25.0	25.0	25.0	27.5
PVID Canals Delivery Actual	7.2	6.5	6.6	6.7	6.2	5.1	5.1
East Fork Release	22.8	23.5	23.4	23.3	23.8	24.9	26.9
PVID Canal Return Flow (assumed)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PVID Canal Diversions	7.2	6.5	6.6	6.7	6.2	5.1	5.1
PVID E Fork Diversions (est.)	12.2	12.2	12.2	12.2	27.4	27.4	27.4
PVID Water Use under PG&E Contract (est.)	7.2	6.5	6.6	6.7	6.2	5.1	5.1
PVID Water Use under Water Right (est.)	12.2	12.2	12.2	12.2	27.4	27.4	27.4
East Fork / Potter Valley Reach Analysis							
USGS E Fork @ Calpella	19.7	19.2	19.1	19.6	19.6	20.9	20.7
Net Reach Loss(-)/Gain(+)	-10.3	-10.8	-10.9	-10.4	-10.4	-9.1	-11.3
Unimpaired Natural Flow @ Calpella (est.)	4.9	4.5	4.4	4.2	4.1	4.0	3.8
Non-PVID East Fork Estimated Reach Losses	-4.2	-3.3	-3.5	-4.3	-19.1	-19.5	-17.4
Natural Flow	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Import	0.0	0.0	0.0	0.0	0.0	0.0	0.0
II. Lake Mendocino							
Reservoir Operations							
Calculated Inflow (ac-ft)	25.7	32.4	34.8	24.2	50.0	36.4	24.9
(cfs)	13	16	18	12	25	18	13
Natural Flow	2	5	6	1	29	21	13
Import	11	11	11	11	-4	-2	0
Storage Change (ac-ft)	-128.0	-128.0	-128.0	-140.0	-115.0	-127.0	-140.0
(cfs)	-65	-65	-65	-71	-58	-64	-71
Stored Natural Flow (cfs)	0	0	0	0	0	0	0
Stored Import Water (cfs)	0	0	0	0	0	0	0
Evaporation (ac-ft)	21.7	21.7	23.9	25.4	26.2	24.6	26.1
RVCWD Diversion (ac-ft) (assum.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CVD Release Gage	67	70	70	70	70	70	70
Storage (Project Water)	65	65	65	70	58	64	70
Natural Flow	0	0	0	0	12	6	0
Import Water	2	5	5	0	0	0	0
East Fork Min Instream Flow Requirement	25	25	25	25	25	25	25
Compliance Gage		<i>Rvr mi.</i>					
CVD Release	67	70	70	70	70	70	70
CVD Project Water Release to Meet Min Flow Requirement							
Total Pass-through Water	2	5	5	0	12	6	0
Project Water Release Required	Yes	Yes	Yes	Yes	Yes	Yes	Yes
III. Upper Russian River Reach							
Minimum Instream Flow Requirement	25	25	25	25	25	25	25
Controlling Compliance Gage							
Min Gage Flow	24	23	23	23	24	26	28
Controlling Gage	Healdsburg	Healdsburg	Healdsburg	Healdsburg	Healdsburg	Healdsburg	Healdsburg
All Compliance Gages							
		<i>Rvr mi.</i>					
Forks (CVD + USGS 11461000)	99.0	71	74	73	73	72	72
Talmage (USGS 11462080)	96.1	70	76	75	76	74	63
Hopland (USGS 11462500)	84.8	55	64	66	67	66	59
Cloverdale (USGS 11463000)	70.9	39	43	52	57	58	57
Geyserville (USGS 11463500)	54.4	33	31	37	43	46	50
Jimtown (USGS 11463682)	48.5	34	33	34	37	40	43
Digger Bend (USGS 11463980)	38.2	26	24	25	26	29	34
Healdsburg (USGS 11464000)	35.6	24	23	23	23	24	28
Net Reach Loss(-)/Gain(+)							
Forks - Talmage	-6	-8	-8	-7	-9	-8	-9
Talmage - Hopland	-10	-6	-5	-2	-2	-3	-5
Hopland - Cloverdale	-11	-11	-12	-9	-9	-8	-7
Cloverdale - Jimtown	-3	-5	-14	-16	-14	-12	-10
Jimtown - Digger Bend	-8	-10	-9	-10	-10	-10	-8
Digger Bend - Healdsburg	-2	-1	-2	-3	-4	-2	-1
CVD Project Water Release to Meet Min Flow Requirement							
Net Reach Loss(-)/Gain(+) to Controlling Gage	-41	-41	-50	-46	-48	-42	-41
Storage (Project Water)	+41	+41	+50	+46	+48	+42	+41
Pass-through Water (Natural + Import)	-81	-82	-101	-93	-96	-85	-82
Total Pass-through Water	-79	-76	-95	-93	-84	-79	-82
Project Water Release Required	Yes	Yes	Yes	Yes	Yes	Yes	Yes

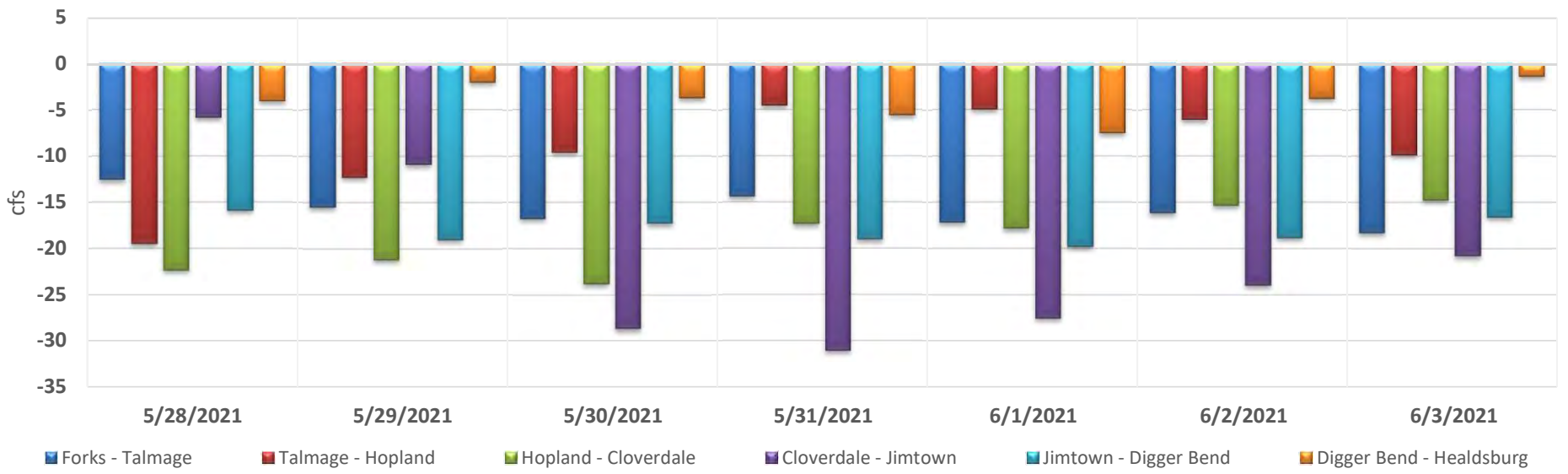
Notes:

- 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.

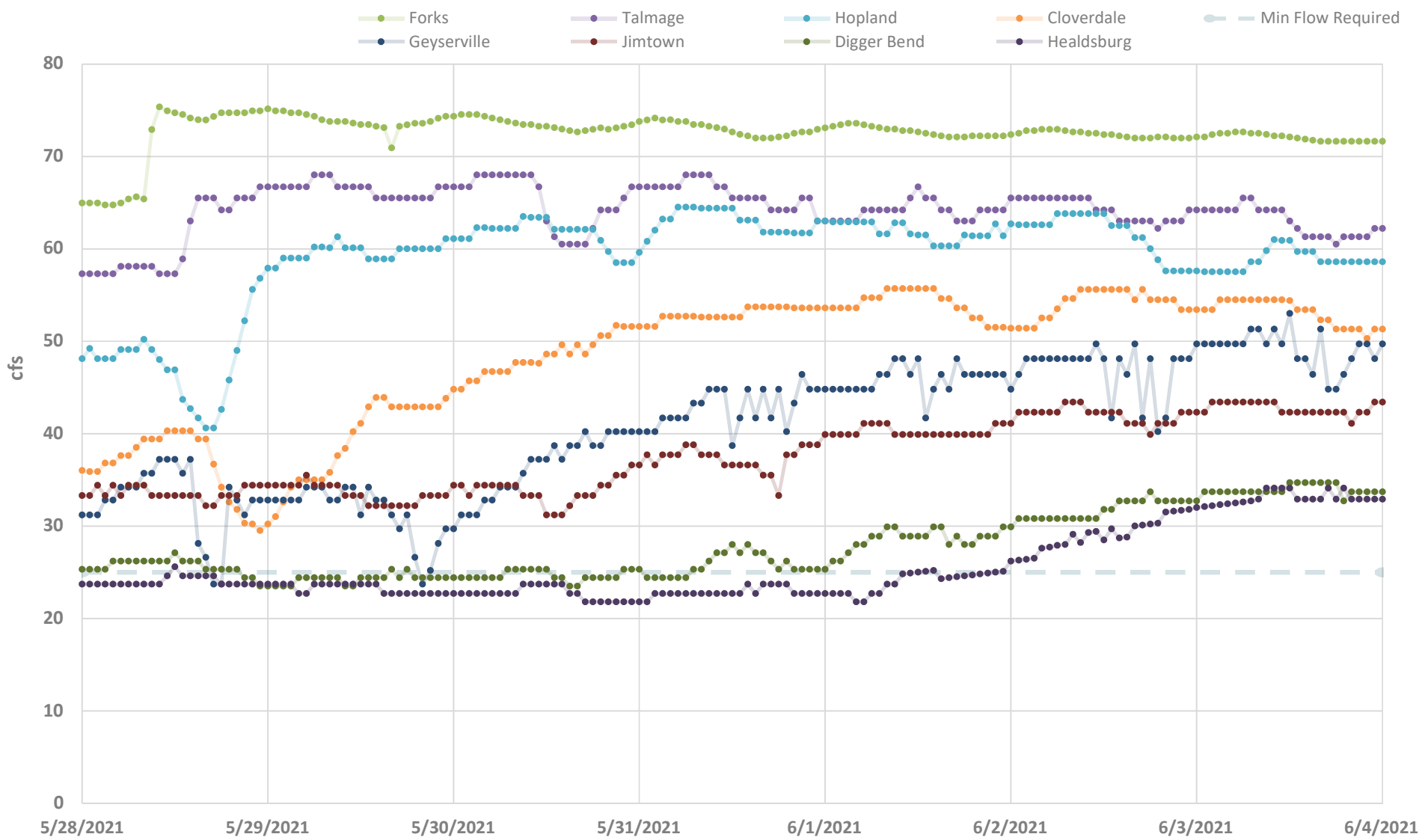
Lake Mendocino Water Accounting Weekly Report (Term 11)

Report Date: 6/4/2021

UPPER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



UPPER RUSSIAN RIVER STREAM FLOWS



MAP OF UPPER RUSSIAN RIVER and STREAM GAGES

