



State Water Resources Control Board
 Temporary Urgency Change Order (6/14/2021)
 Russian River Hydrologic Report
 June 11, 2021 - June 17, 2021

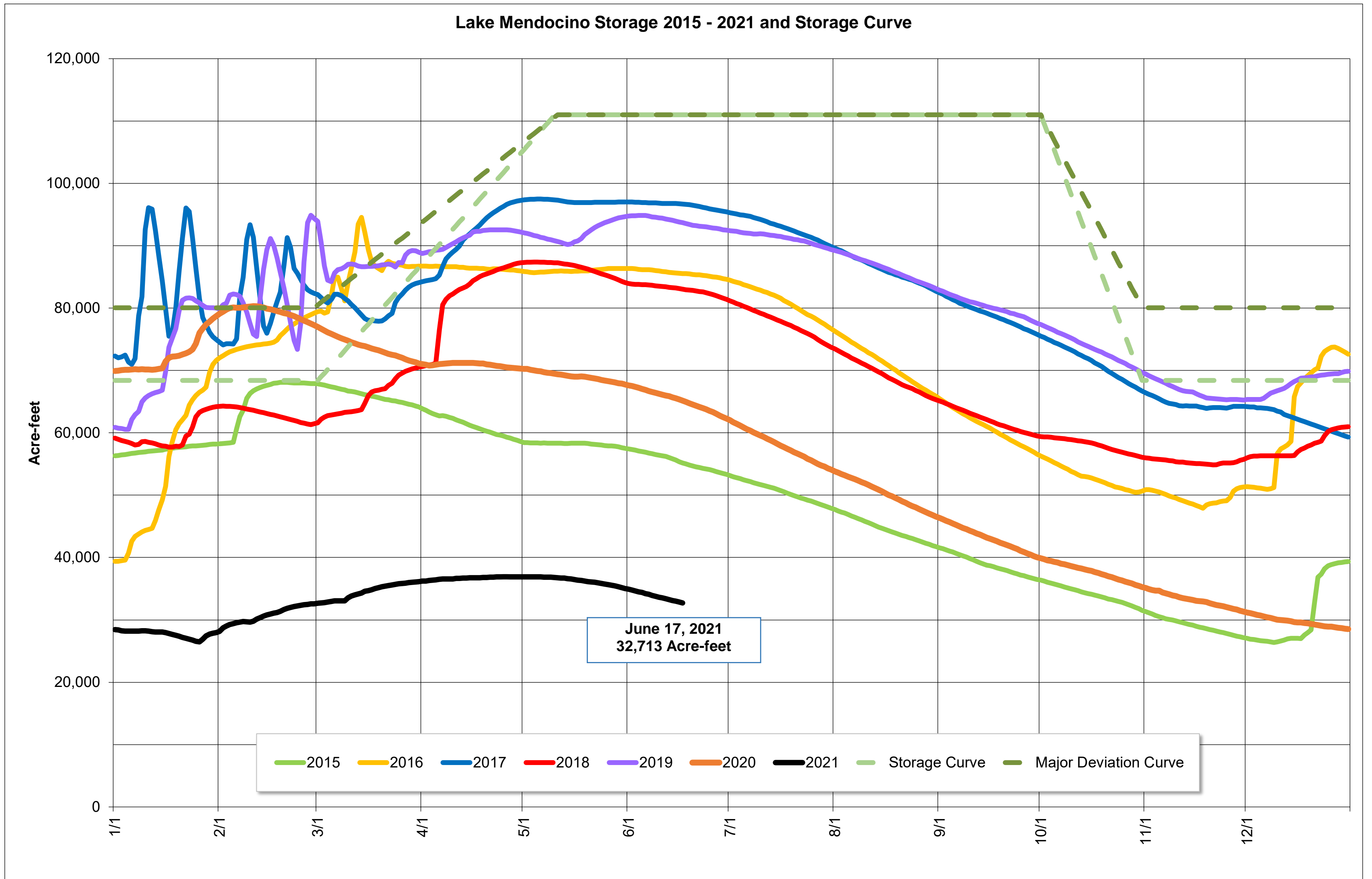
Prepared as a requirement of the Order approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A, 12949, 12950, and 16596 (Applications 12919A, 15736, 15737, and 19351).

Instream Flow Requirements as of June 17, 2021

Basis	Reach	Instantaneous (cfs)	5-day Average (cfs)
Modified Per Order: Critical Condition	Upper Russian River	15	25
D-1610: Dry Condition	Dry Creek	25	-
Modified Per Order: Critical Condition	Lower Russian River	25	35

Upper Russian River and Lower Russian River based on criteria as established in the Order issued 6/14/2021.

Lake Mendocino

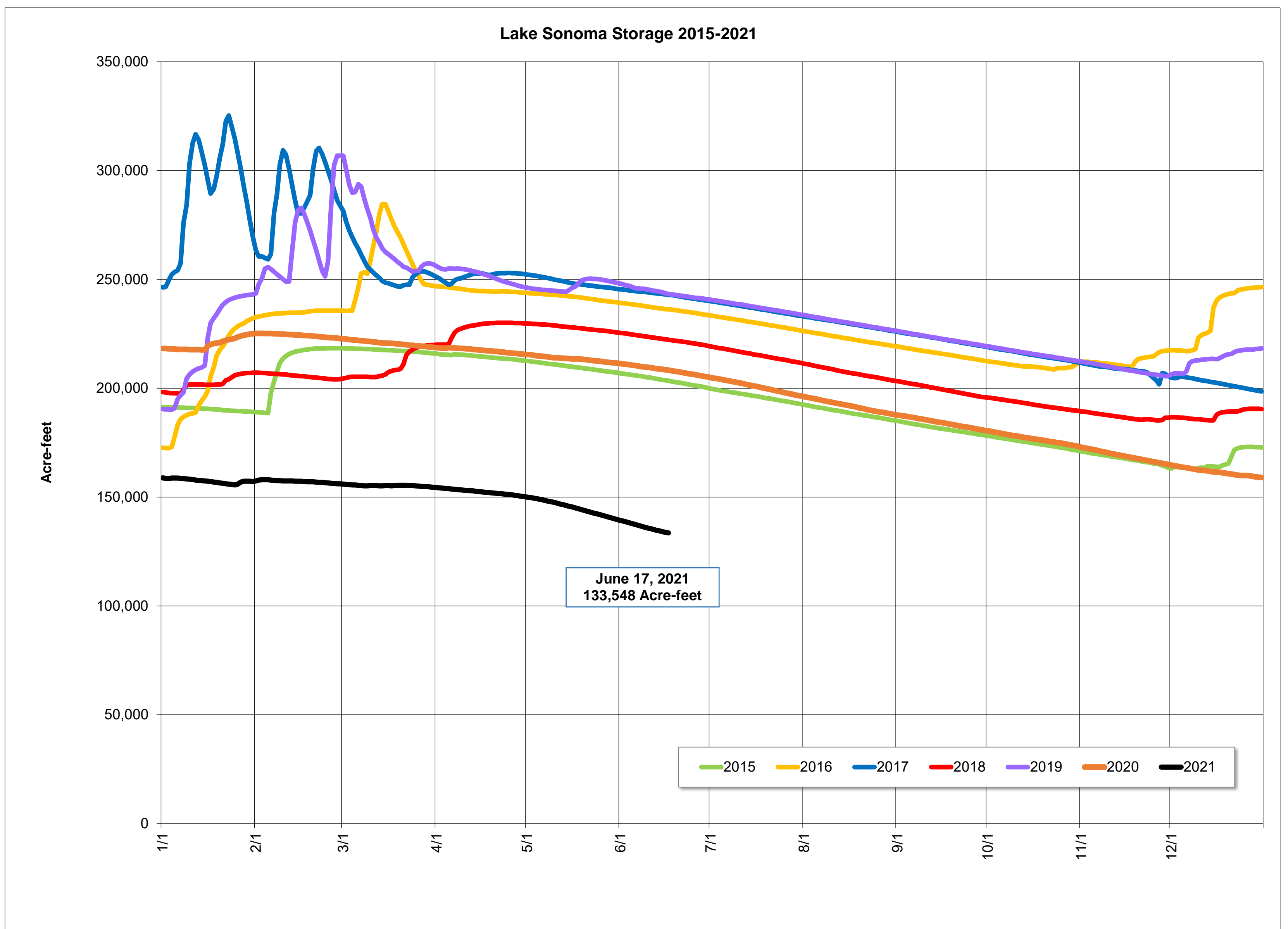


Storage (acre-feet)	June 17, 2021	32,713	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
	Last 7 days	-3,598	-120
Daily Inflow (cfs)	Last 7 days	Min	6
		Max	26
		Mean	15
Release (cfs)	Last 7 days	Min	72
		Max	72
		Mean	72

Lake Sonoma



Nathan Baskett, March 3, 2021



Storage (acre-feet)	June 17, 2021	133,548	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
	Last 7 days	-11,123	-371
Daily Inflow (cfs)	Last 7 days	Min	0
		Max	7
		Mean	0
Release (cfs)	Last 7 days	Min	121
		Max	165
		Mean	150

Potter Valley Project

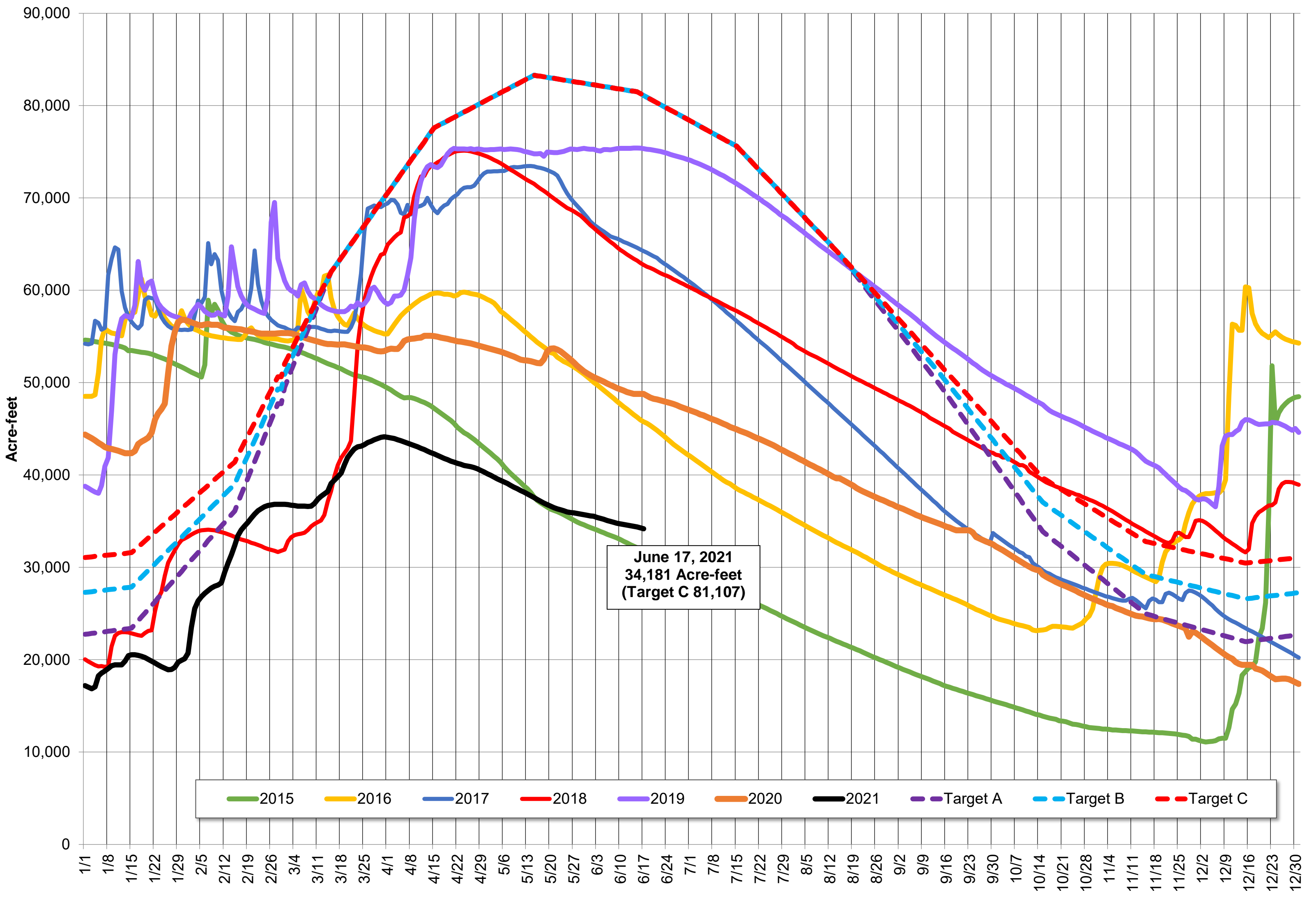
PVP Diversion (cfs)	June 17, 2021	45
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Lake Pillsbury

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2020 - June 17, 2021	86,937	336
	Last 7 days	536	77

*Inflow calculation based on criteria established in D1610

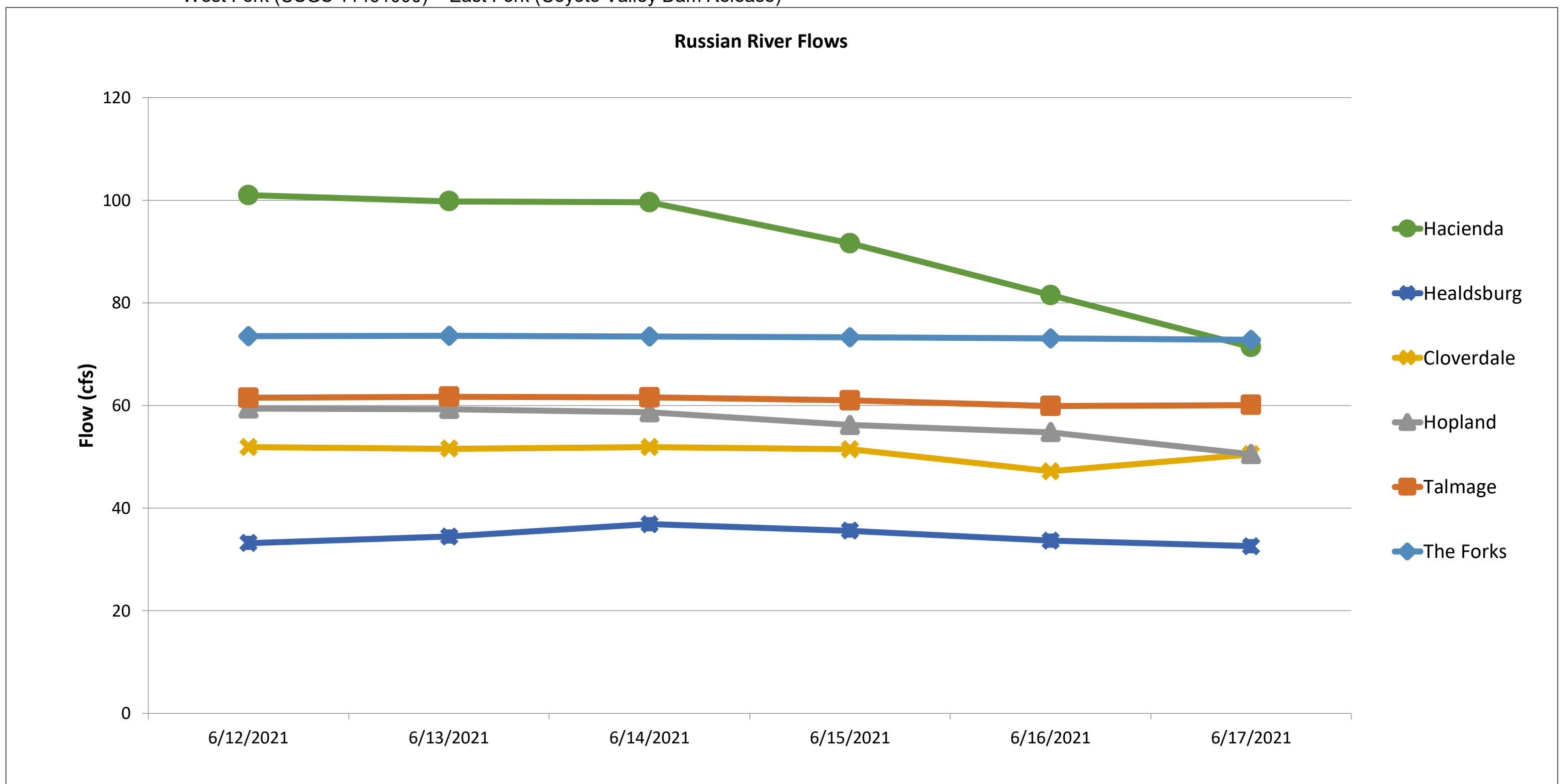
Lake Pillsbury Storage 2015-2021 and Target Storage Scenarios



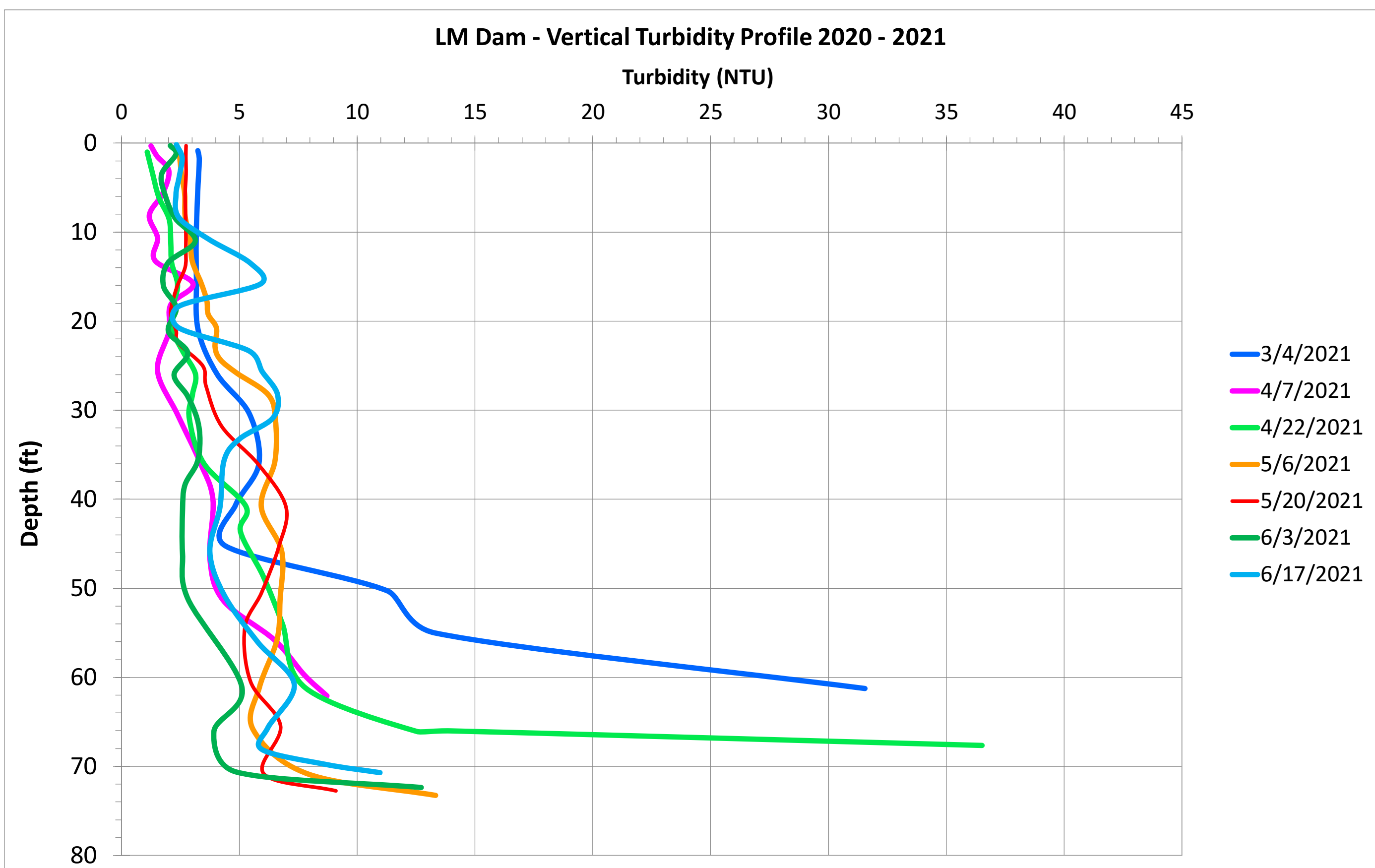
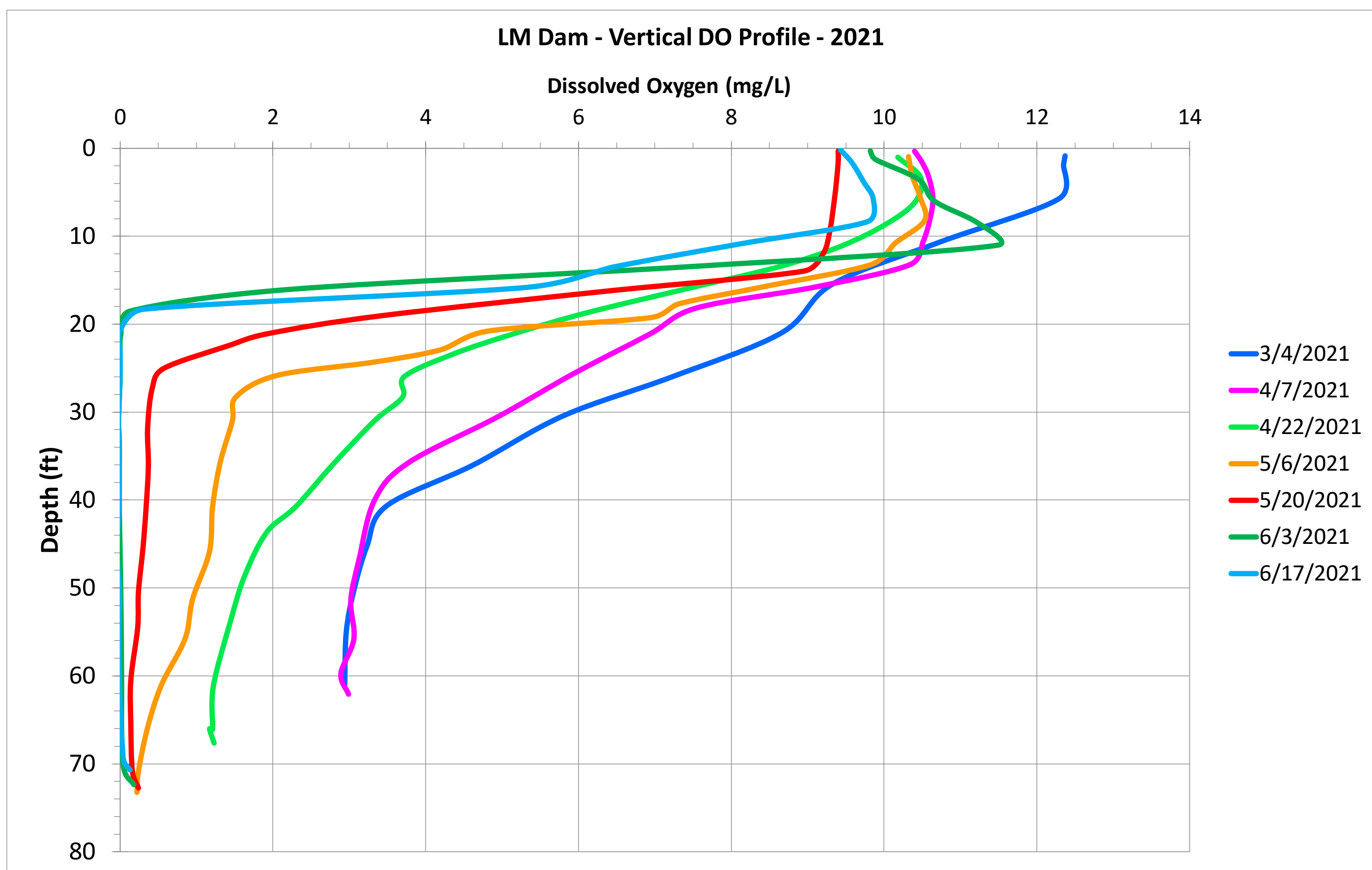
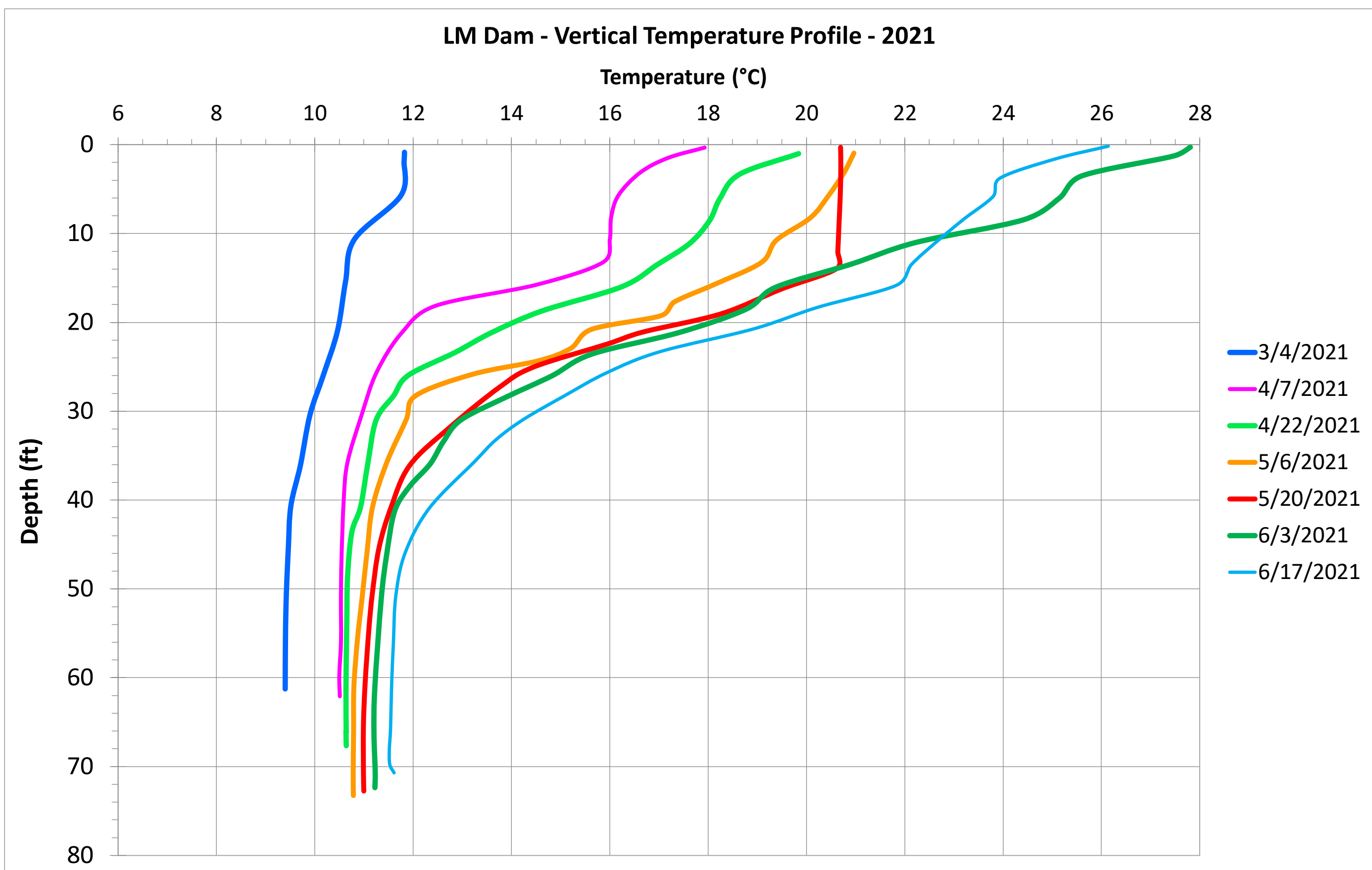
Russian River Flows (June 11 - June 17, 2021)

Gage	24-hr Average Flow (cfs)						
	Jun 11, 2021	Jun 12, 2021	Jun 13, 2021	Jun 14, 2021	Jun 15, 2021	Jun 16, 2021	Jun 17, 2021
The Forks*	74	74	74	73	73	73	73
Talmage USGS 11462080	61	62	62	62	61	60	60
Hopland USGS 11462500	58	59	59	59	56	55	51
Cloverdale USGS 11463000	52	52	52	52	52	47	51
Healdsburg USGS 11464000	33	33	35	37	36	34	33
Hacienda USGS 11467000	104	101	100	100	92	82	71

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



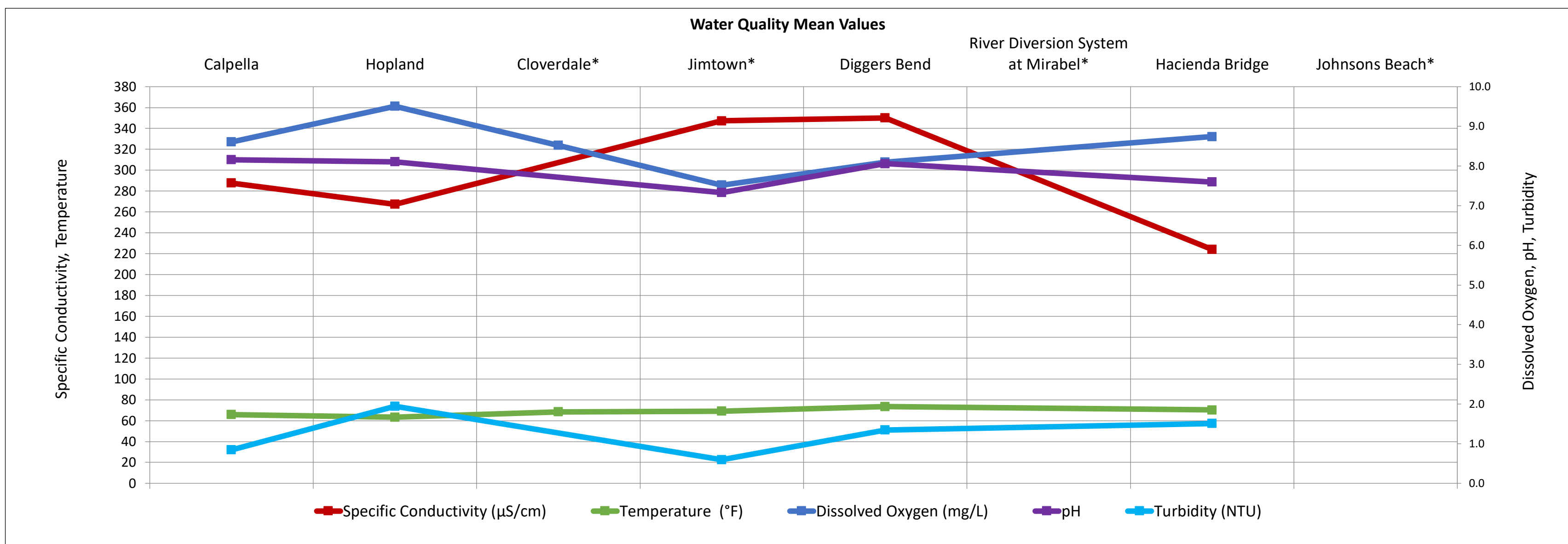
Lake Mendocino Water Quality Vertical Profiles (June 11 - June 17, 2021)



Russian River Water Quality (June 11 - June 17, 2021)

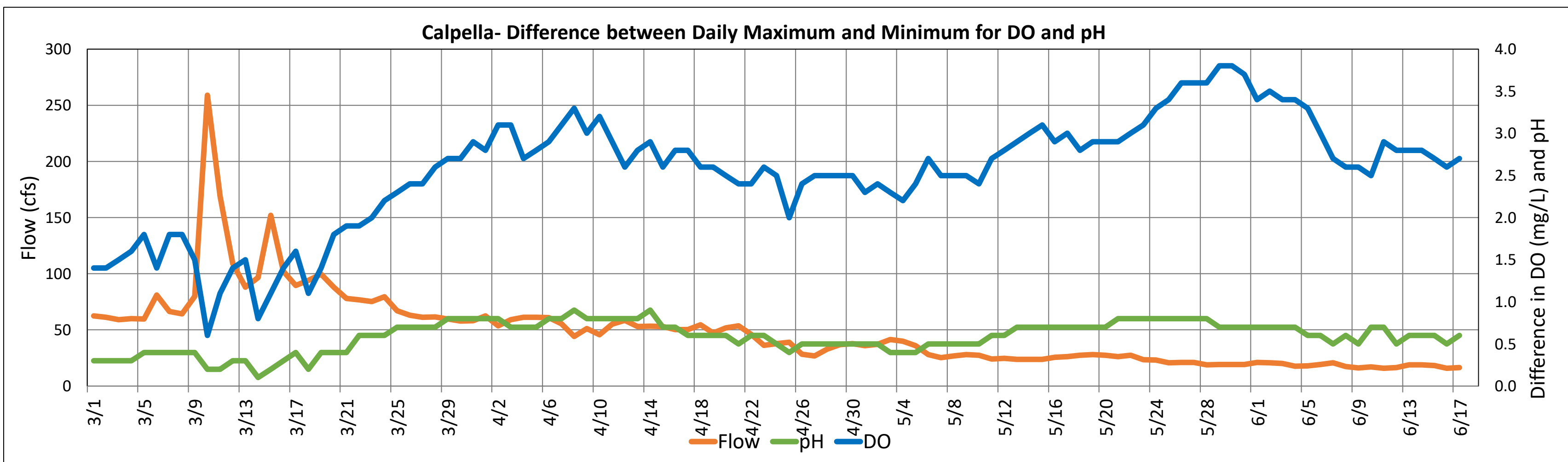
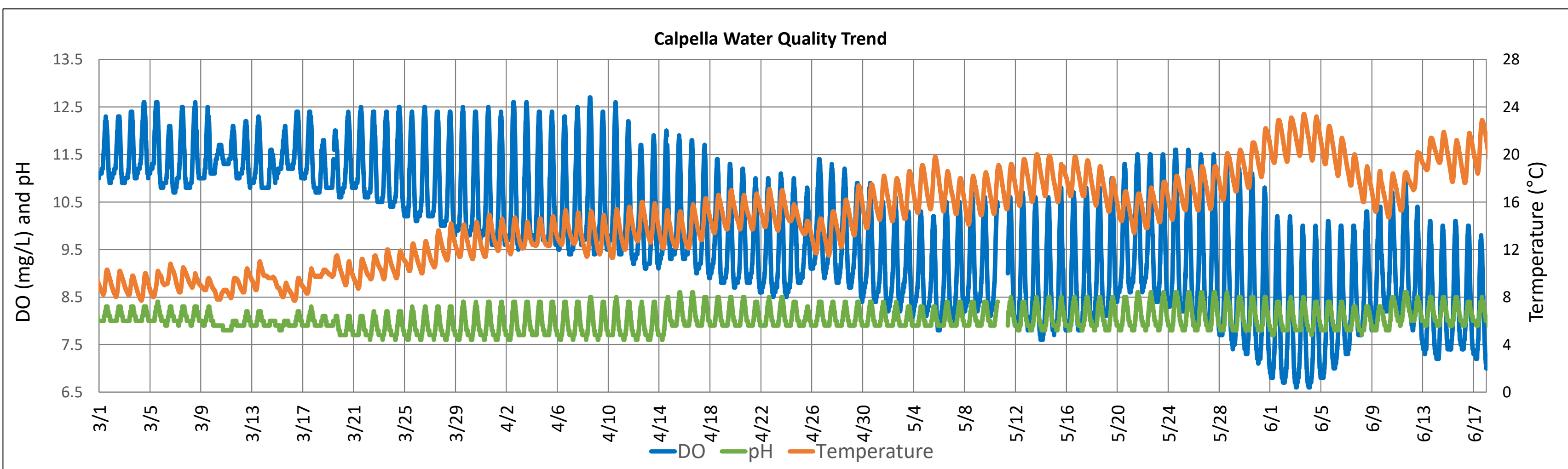
Parameter		East Fork Below Lake Mendocino	Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		SCWA	USGS 11461500	USGS 11462500	USGS 11463200	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min		58.5	57.0	61.9	62.2	65.1		63.3	
	Max		71.4	68.0	74.7	75.0	80.2		75.4	
	Mean		65.8	63.3	68.5	69.1	73.5		70.2	
Specific Conductivity (µS/cm)	Min		279	263		345	346		222	
	Max		296	270		350	354		233	
	Mean		288	267		347	350		224	
Dissolved Oxygen (mg/L)	Min		7.2	6.9	7.4	4.9	5.7		7.0	
	Max		11.0	12.8	10.0	10.8	10.8		10.0	
	Mean		8.6	9.5	8.5	7.5	8.1		8.7	
Dissolved Oxygen (% Saturation)	Min		70	65	75	50	60		72	
	Max		123	141	117	126	133		119	
	Mean		91	98	94	83	94		98	
pH	Min		7.8	7.6		7.2	7.8		7.3	
	Max		8.6	8.7		7.5	8.4		7.9	
	Mean		8.2	8.1		7.3	8.1		7.6	
Turbidity (NTU)	Min		0.4	1.2		0.3	0.6		0.8	
	Max		2.3	3.8		1.3	3.0		2.6	
	Mean		0.8	1.9		0.6	1.3		1.5	

*Station operated seasonally



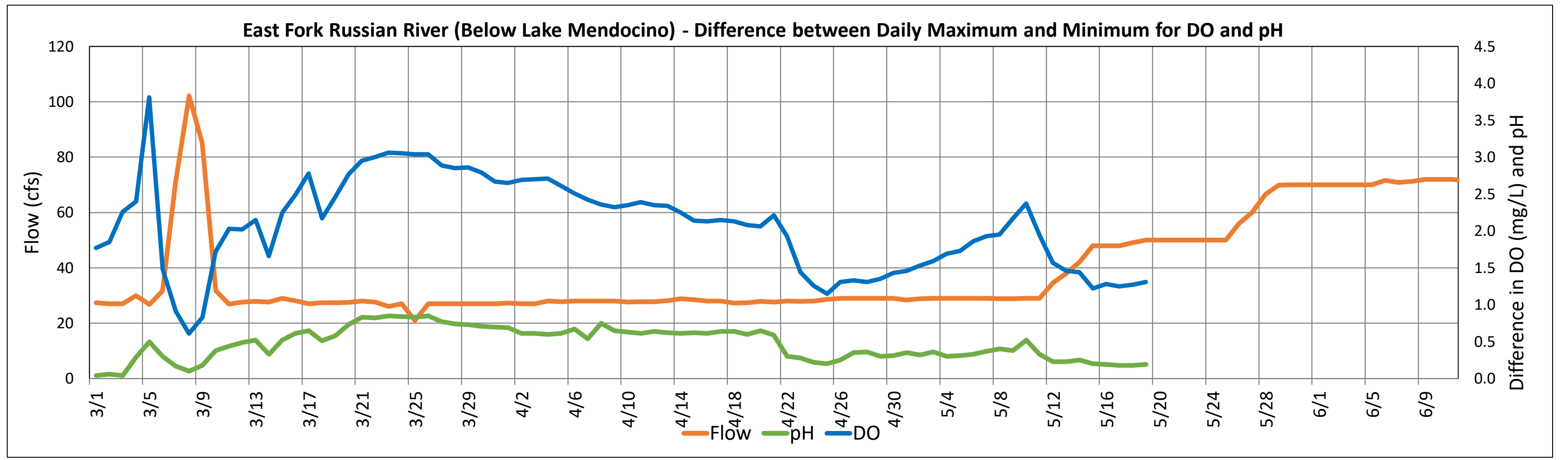
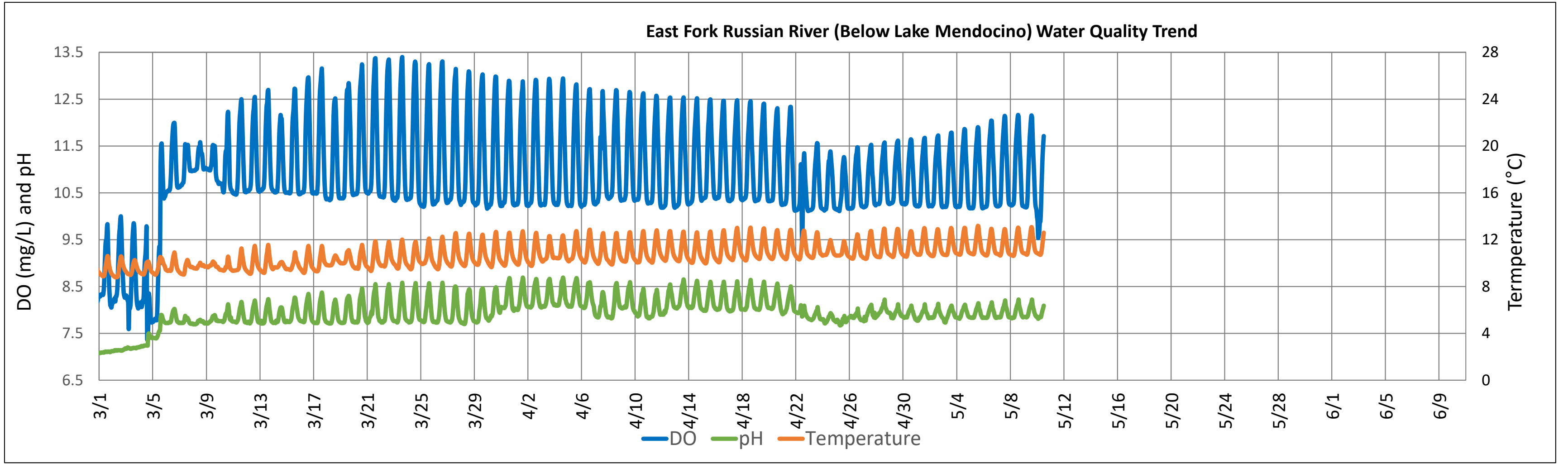
Russian River Water Quality (January 1 - June 17, 2021)

Calpella (East Fork Russian River)

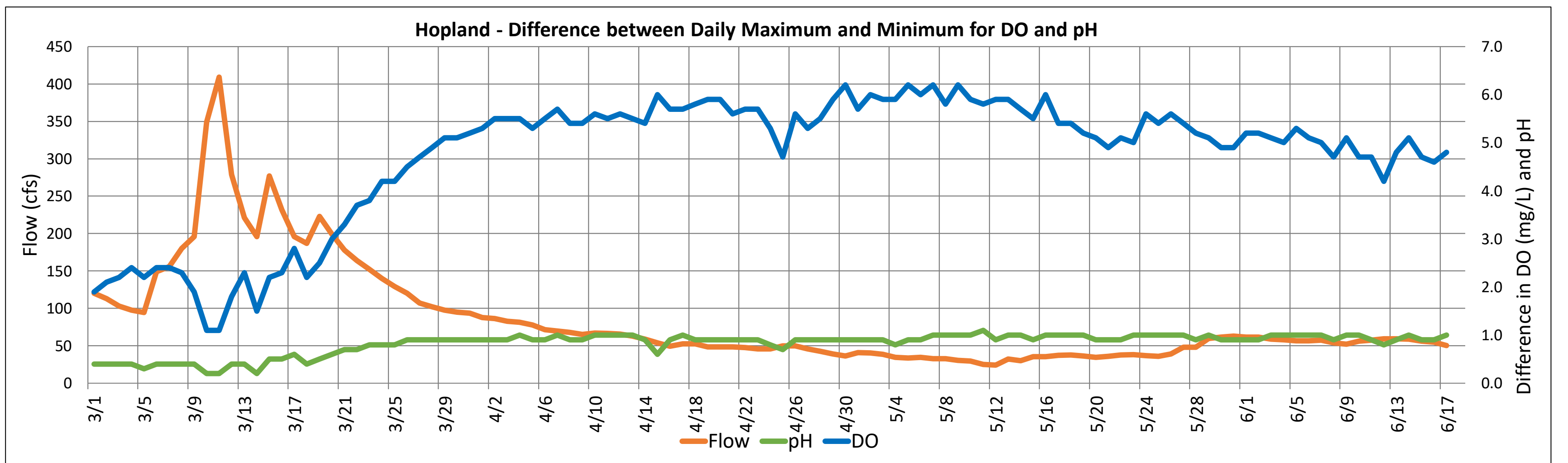
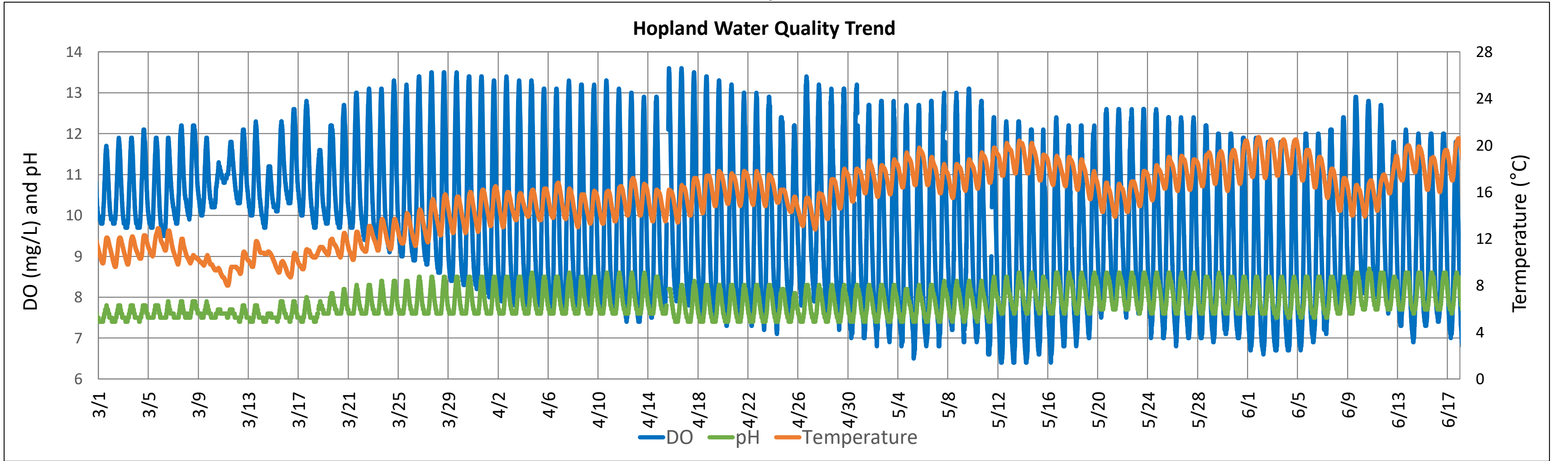


Russian River Water Quality (January 1 - June 17, 2021)

East Fork Russian River (Below Lake Mendocino)

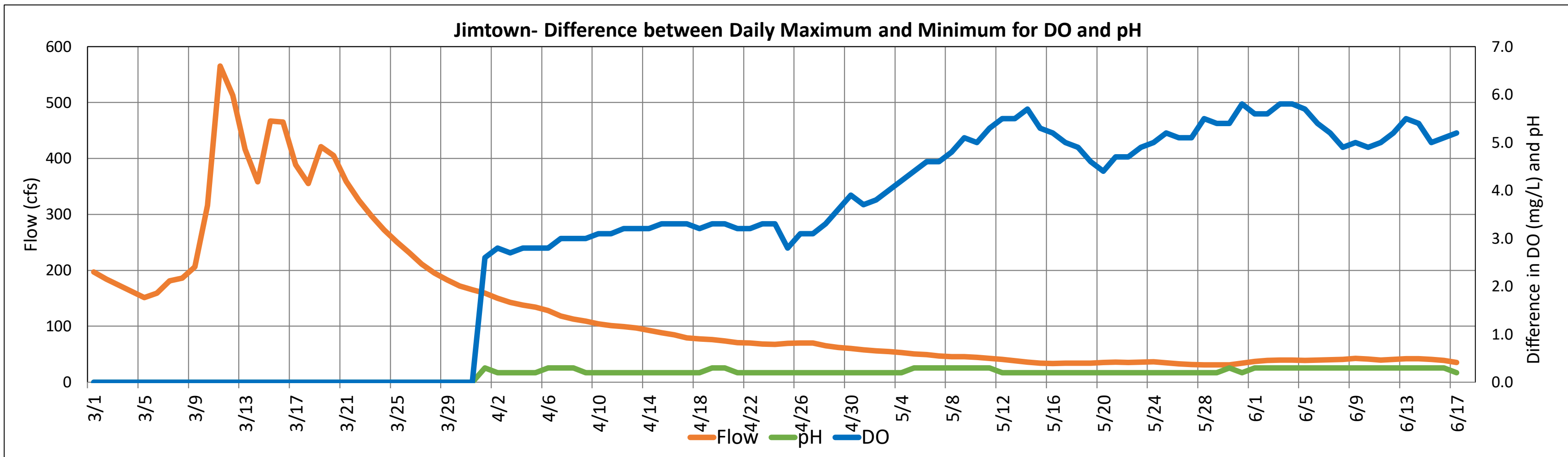
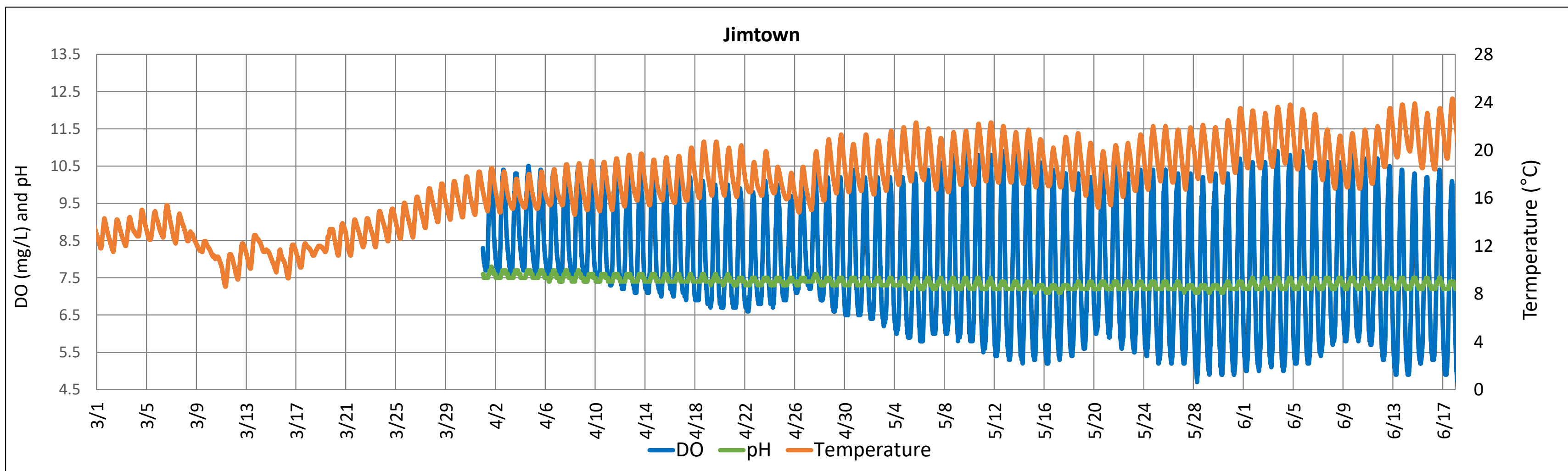


Hopland

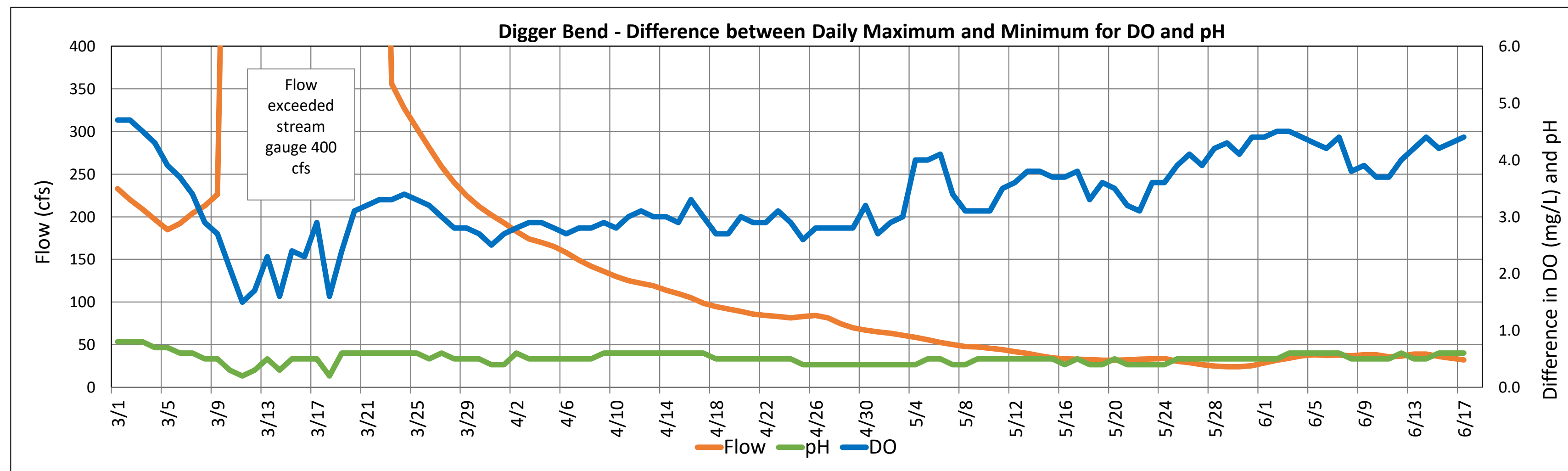
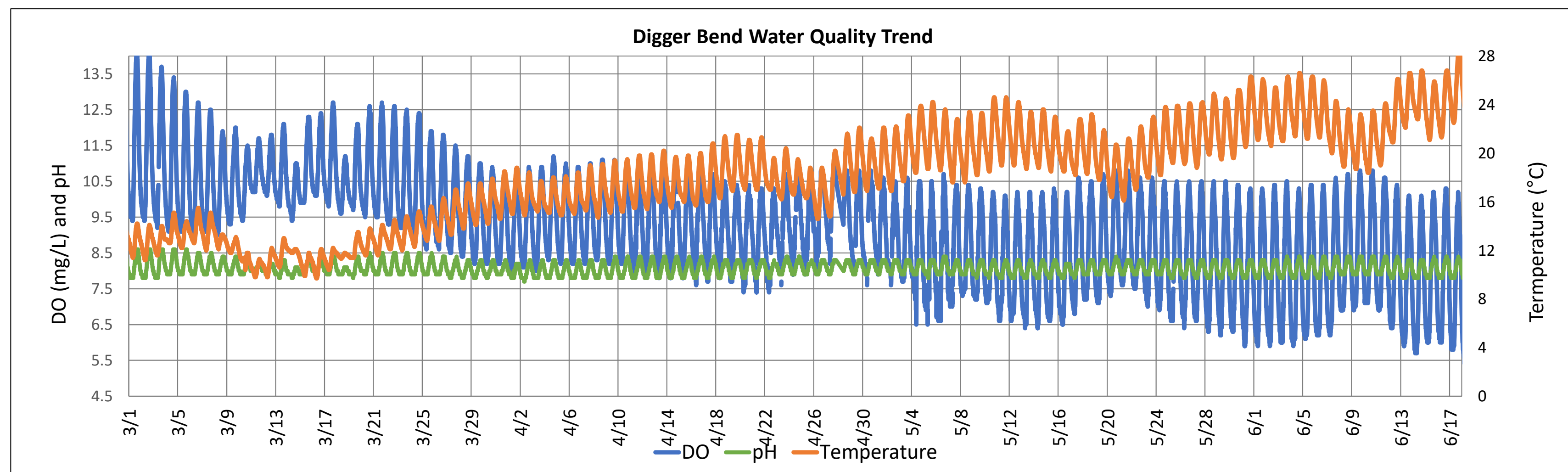


Russian River Water Quality (January 1 - June 17, 2021)

Jimtown Water Quality

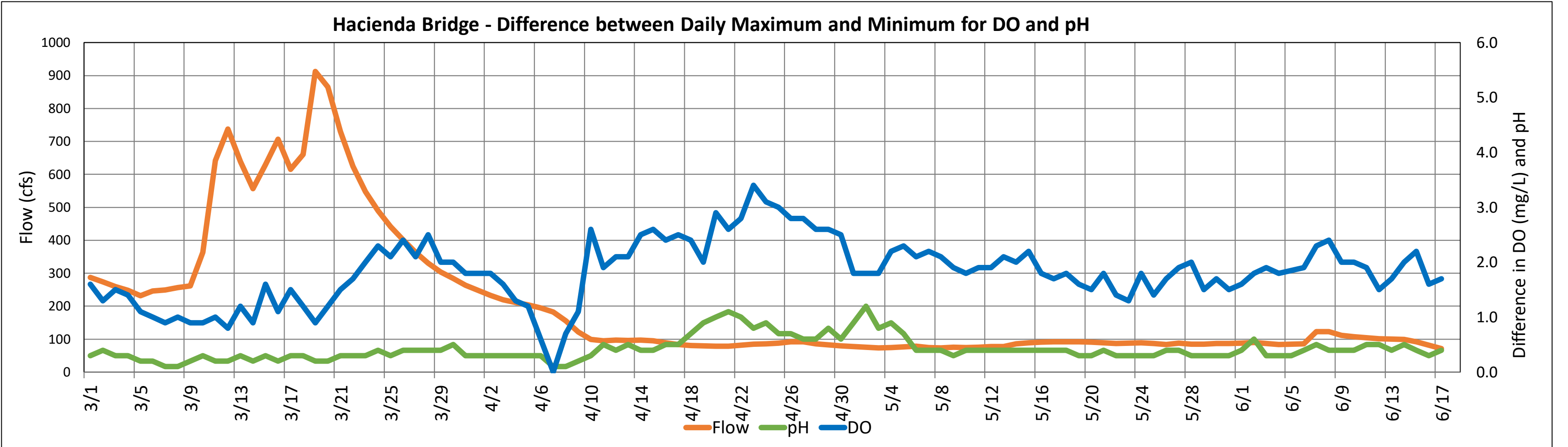
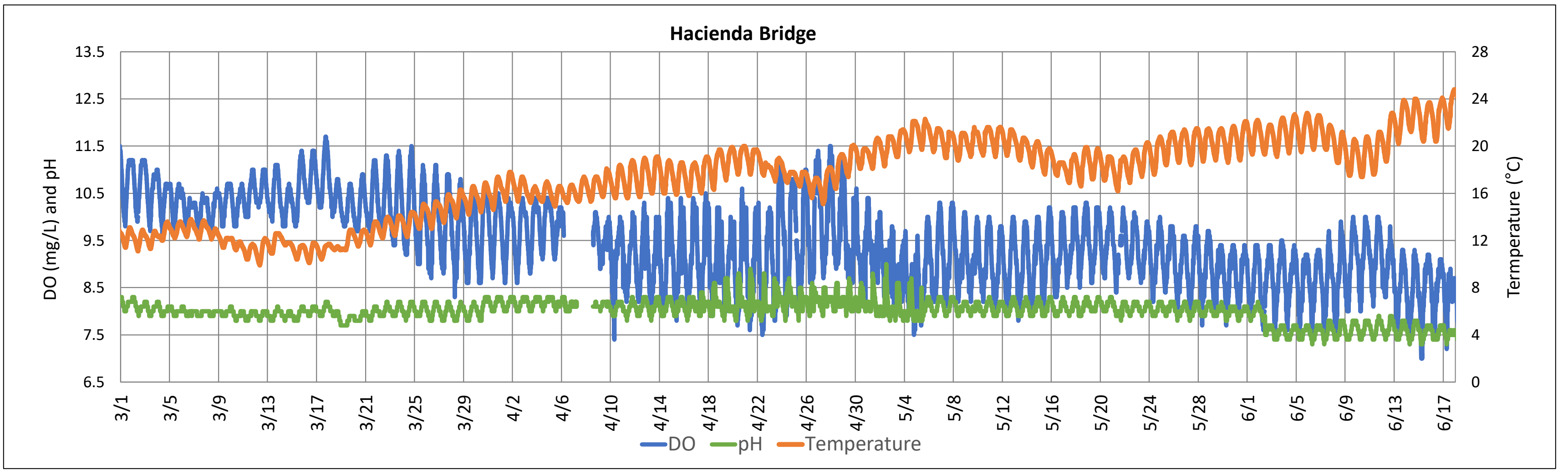


Digger Bend



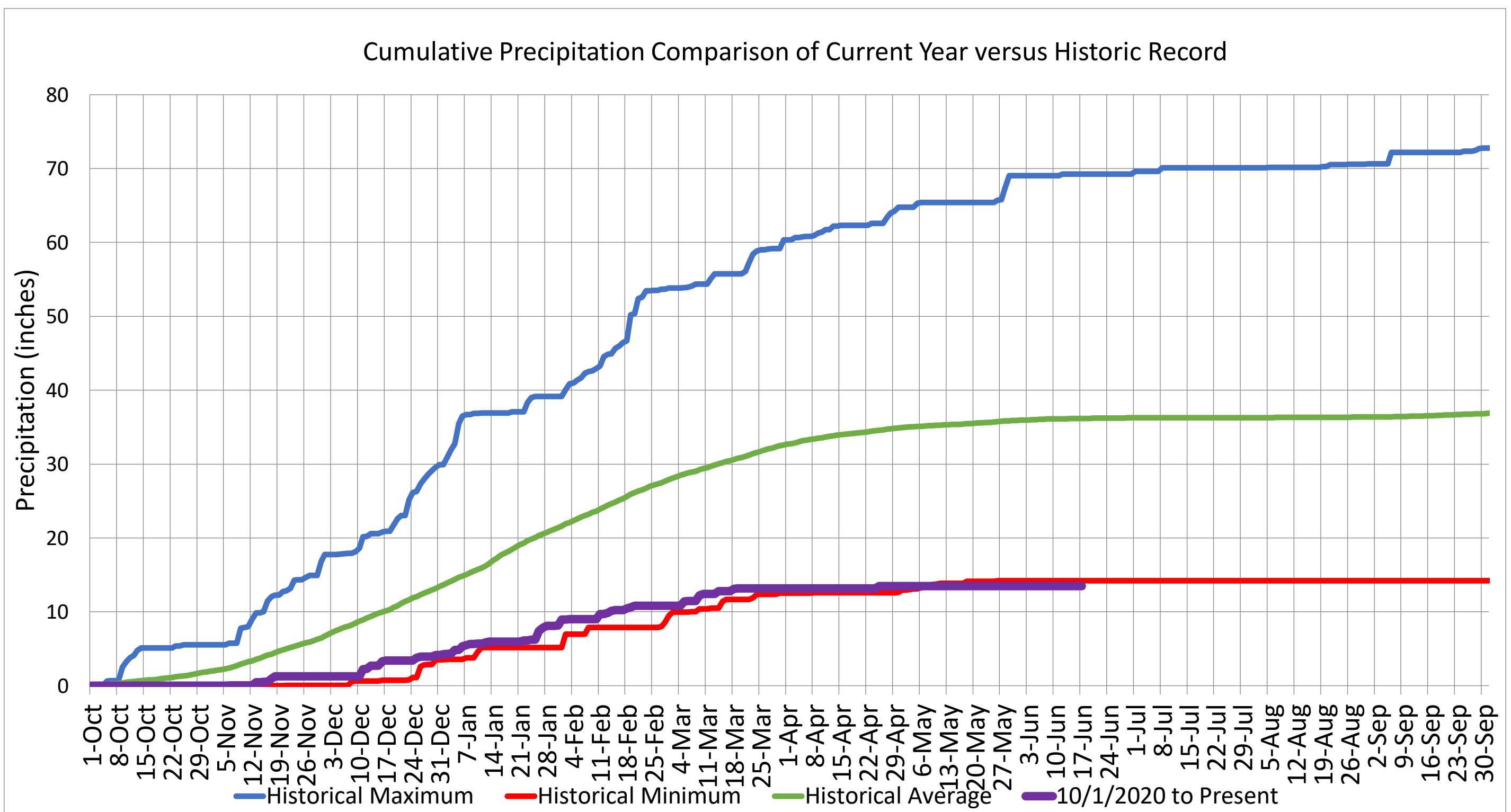
Russian River Water Quality (January 1 - June 17, 2021)

Hacienda Bridge Water Quality

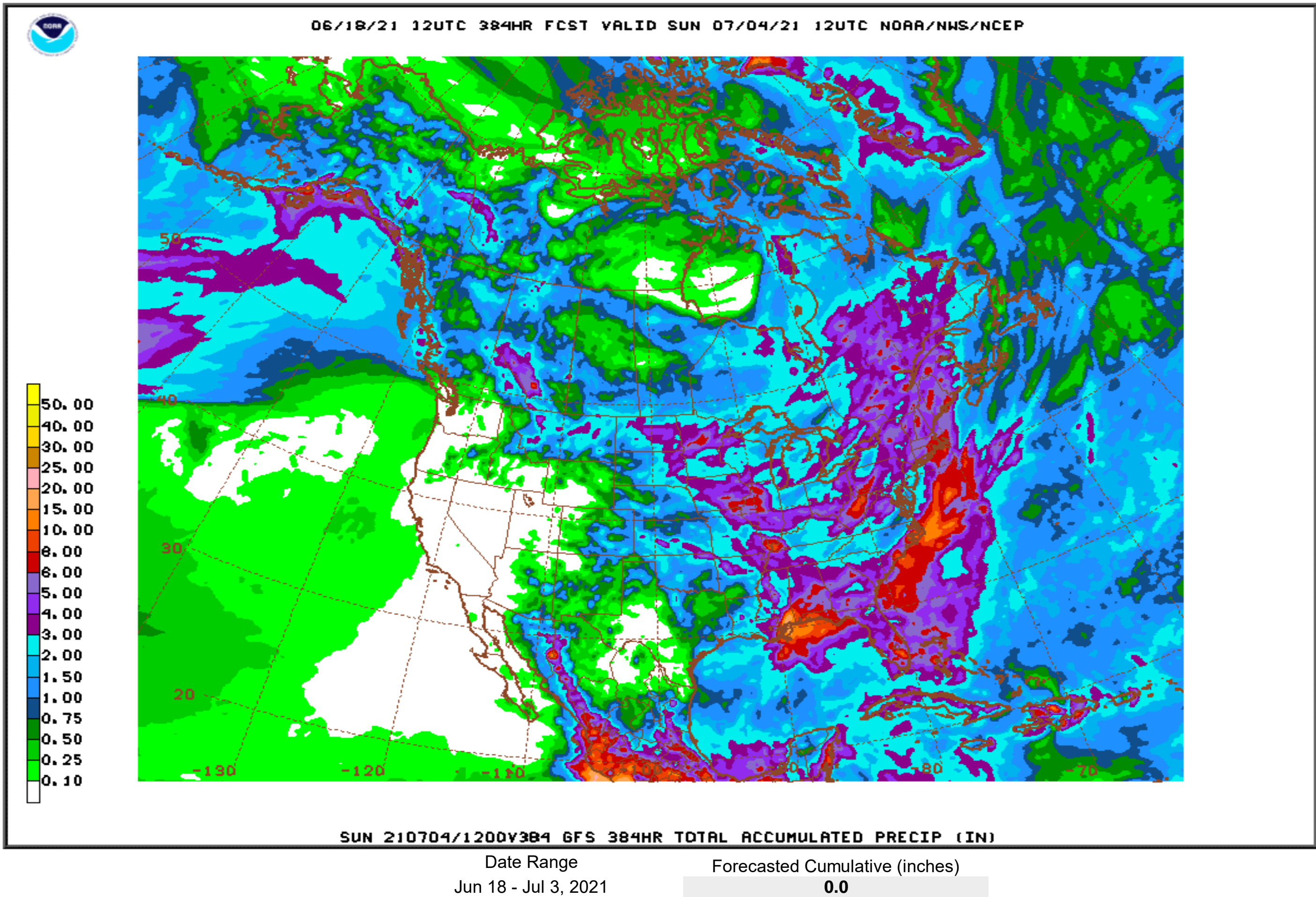


Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2020 - Jun 17, 2021	13.48
Last 7 Days*	0.00



Global Forecast System Model 16-day Cumulative Precipitation Forecast



Lake Mendocino Water Accounting Weekly Report (Term 11)

Report Date: 6/18/2021

Units are cfs unless noted otherwise

	6/11/2021	6/12/2021	6/13/2021	6/14/2021	6/15/2021	6/16/2021	6/17/2021
I. Upper East Fork Reach							
Potter Valley Project							
Tunnel Diversion	40.0	40.0	40.0	40.0	41.0	47.0	50.0
PVID Canals Delivery Requested	35.0	35.0	35.0	35.0	35.7	41.0	45.0
PVID Canals Delivery Actual	16.7	16.5	16.5	16.6	17.2	21.5	22.3
East Fork Release	23.4	23.5	23.5	23.4	23.8	25.5	27.7
PVID Canal Return Flow (assumed)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PVID Canal Diversions	16.7	16.5	16.5	16.6	17.2	21.5	22.3
PVID E Fork Diversions (est.)	27.4	27.4	27.4	27.4	27.4	27.4	27.4
PVID Water Use under PG&E Contract (est.)	16.7	16.5	16.5	16.6	17.2	21.5	22.3
PVID Water Use under Water Right (est.)	27.4	27.4	27.4	27.4	27.4	27.4	27.4
East Fork / Potter Valley Reach Analysis							
USGS E Fork @ Calpella	16.2	16.6	17.1	19.0	19.0	17.7	15.5
Net Reach Loss(-)/Gain(+)	-23.8	-23.4	-22.9	-21.0	-22.0	-29.3	-34.5
Unimpaired Natural Flow @ Calpella (est.)	3.7	3.8	3.8	3.6	3.6	3.5	3.4
Non-PVID East Fork Estimated Reach Losses	-16.4	-16.6	-17.1	-19.3	-18.9	-16.1	-11.7
Natural Flow	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Import (neg. value is return flow)	-16.4	-16.6	-17.1	-19.3	-18.9	-16.1	-11.7
II. Lake Mendocino							
Reservoir Operations							
Calculated Inflow (ac-ft)	35.2	36.6	26.4	11.6	52.5	18.4	32.8
(cfs)	18	18	13	6	26	9	17
Natural Flow	4	4	0	0	4	0	3
Import	14	15	13	6	23	9	13
Storage Change (ac-ft)	-125.0	-125.0	-137.0	-150.0	-112.0	-150.0	-137.0
(cfs)	-63	-63	-69	-76	-56	-76	-69
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)	17.4	19.6	21.1	18.8	21.8	25.5	27.0
RVCWD Diversion (ac-ft) (assum.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CVD Release Gage	72	72	72	72	72	72	72
Storage (Project Water)	63	63	69	72	56	72	69
Natural Flow	0	0	0	0	0	0	0
Import Water	9	9	3	0	15	0	3
East Fork Min Instream Flow Requirement	25	25	25	25	25	25	25
Compliance Gage		<i>Rvr mi.</i>					
CVD Release	72	72	72	72	72	72	72
CVD Project Water Release to Meet Min Flow Requirement							
Total Pass-through Water	9	9	3	0	15	0	3
Project Water Release Required	Yes	Yes	Yes	Yes	Yes	Yes	Yes
III. Upper Russian River Reach							
Minimum Instream Flow Requirement	25	25	25	25	15	15	15
Controlling Compliance Gage							
Min Gage Flow	33	33	35	37	36	34	32
Controlling Gage	Healdsburg	Healdsburg	Healdsburg	Healdsburg	Healdsburg	Healdsburg	Digger Bend
All Compliance Gages							
		<i>Rvr mi.</i>					
Forks (CVD + USGS 11461000)	99.0	74	74	74	73	73	73
Talmage (USGS 11462080)	96.1	61	62	62	62	61	60
Hopland (USGS 11462500)	84.8	58	59	59	59	56	51
Cloverdale (USGS 11463000)	70.9	52	52	52	52	52	47
Geyserville (USGS 11463500)	54.4	48	51	50	50	46	45
Jimtown (USGS 11463682)	48.5	42	43	45	44	40	39
Digger Bend (USGS 11463980)	38.2	36	37	39	39	36	34
Healdsburg (USGS 11464000)	35.6	33	33	35	37	36	34
Net Reach Loss(-)/Gain(+)							
Forks - Talmage	-13	-13	-12	-12	-13	-14	-13
Talmage - Hopland	-4	-2	-2	-3	-5	-5	-10
Hopland - Cloverdale	+0	-0	-2	-1	+0	-1	-3
Cloverdale - Jimtown	-13	-17	-15	-16	-18	-20	-19
Jimtown - Digger Bend	-5	-3	-3	-3	-5	-6	-6
Digger Bend - Healdsburg	-1	-1	-2	-2	-1	-1	-0
CVD Project Water Release to Meet Min Flow Requirement							
Net Reach Loss(-)/Gain(+) to Controlling Gage	-36	-36	-36	-37	-42	-46	-50
Storage (Project Water)	+36	+36	+36	+37	+42	+46	+50
Pass-through Water (Natural + Import)	+0	+0	+0	+0	+0	+0	+0
Total Pass-through Water	9	9	3	0	15	0	3
Project Water Release Required	Yes	Yes	Yes	Yes	No	Yes	Yes

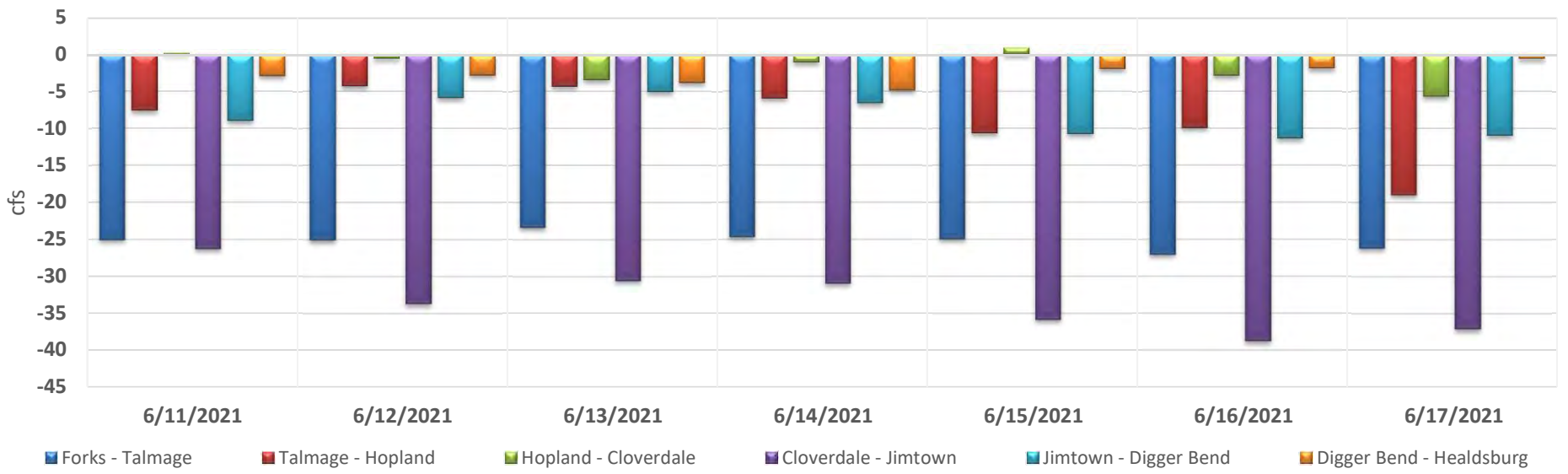
Notes:

- 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.

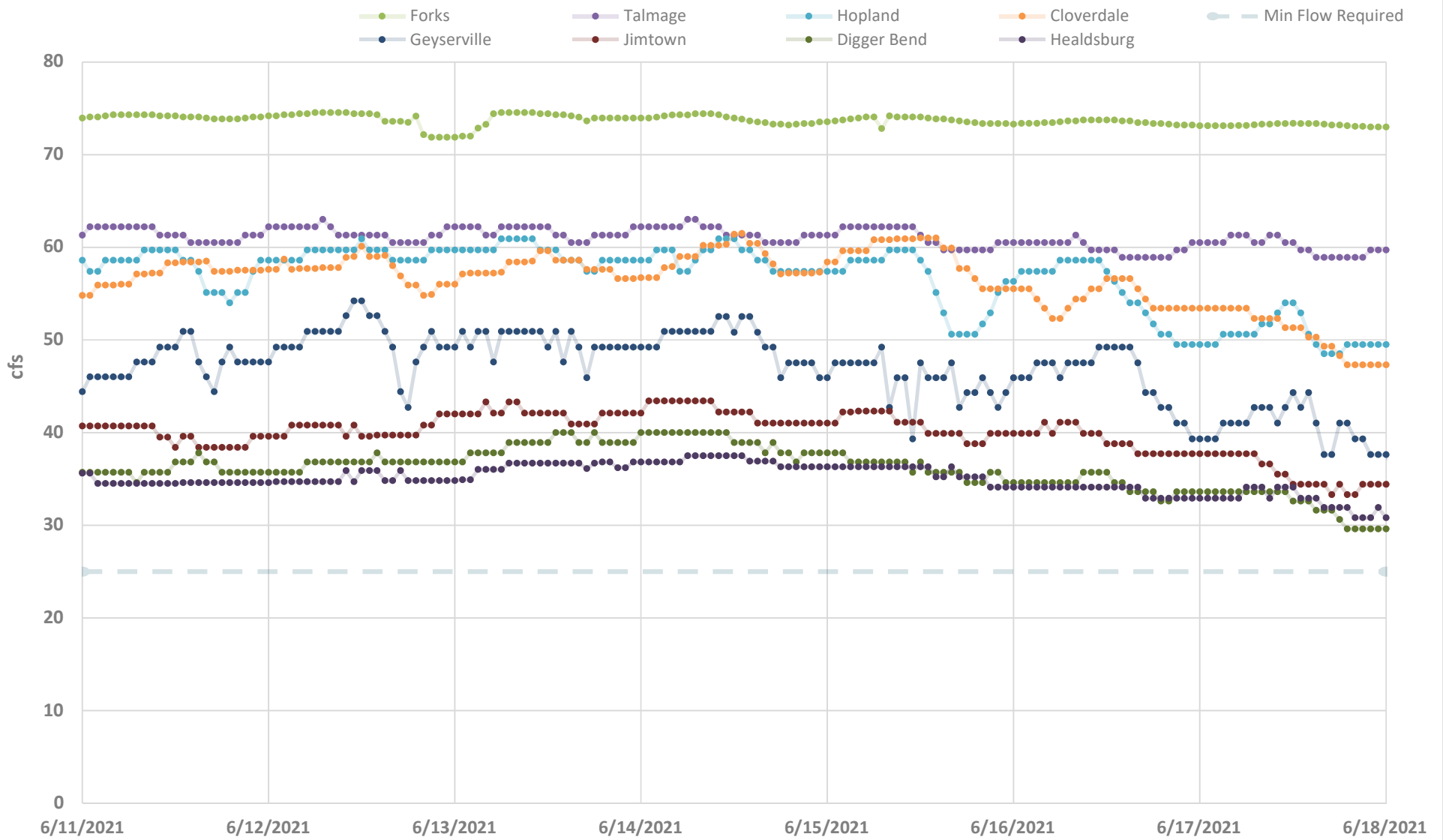
Lake Mendocino Water Accounting Weekly Report (Term 11)

Report Date: 6/18/2021

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



UPPER RUSSIAN RIVER STREAM FLOWS



MAP OF UPPER RUSSIAN RIVER and STREAM GAGES

