



State Water Resources Control Board
 Temporary Urgency Change Order (6/14/2021)
 Russian River Hydrologic Report
 June 18, 2021 - June 24, 2021

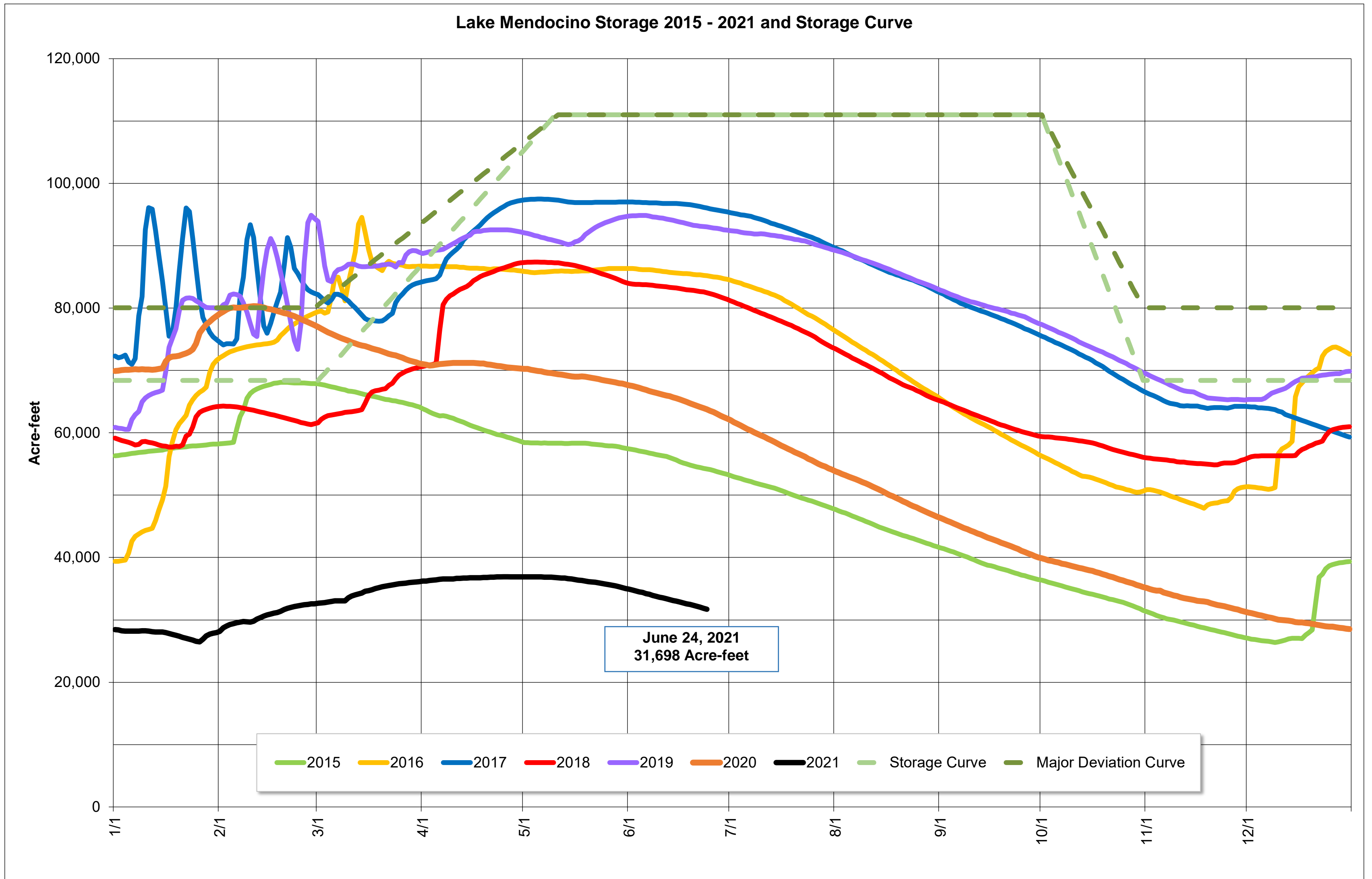
Prepared as a requirement of the Order approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A, 12949, 12950, and 16596 (Applications 12919A, 15736, 15737, and 19351).

Instream Flow Requirements as of June 24, 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

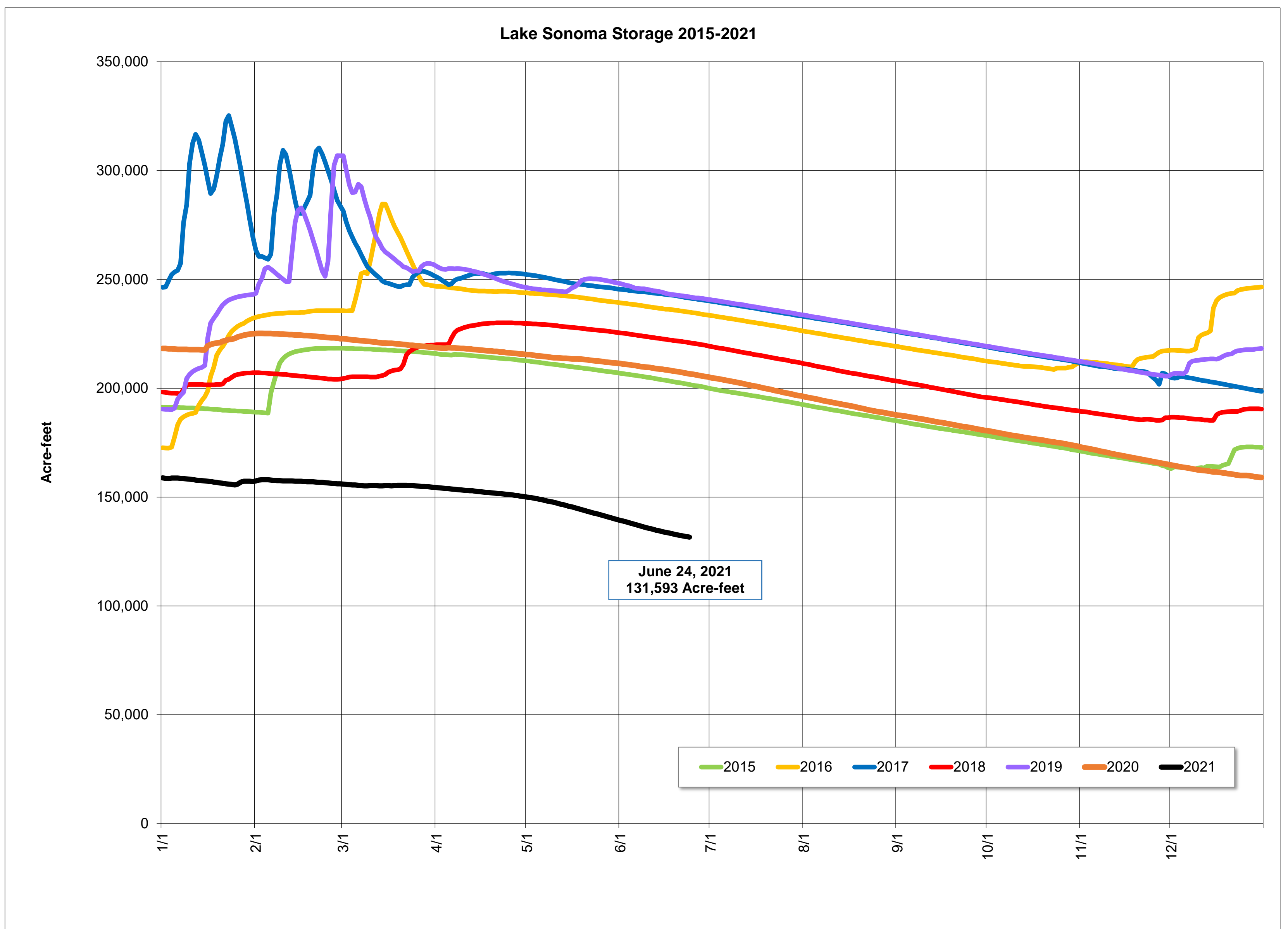


Storage (acre-feet)	June 24, 2021	31,698	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
	Last 7 days	-4,057	-135
Daily Inflow (cfs)	Last 7 days	Min	5
		Max	28
		Mean	16
Release (cfs)	Last 7 days	Min	72
		Max	82
		Mean	76

Lake Sonoma



Nathan Baskett, March 3, 2021



Storage (acre-feet)	June 24, 2021	131,593	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
	Last 7 days	-10,410	-347
Daily Inflow (cfs)	Last 7 days	Min	0
		Max	0
		Mean	0
Release (cfs)	Last 7 days	Min	105
		Max	121
		Mean	114

Potter Valley Project

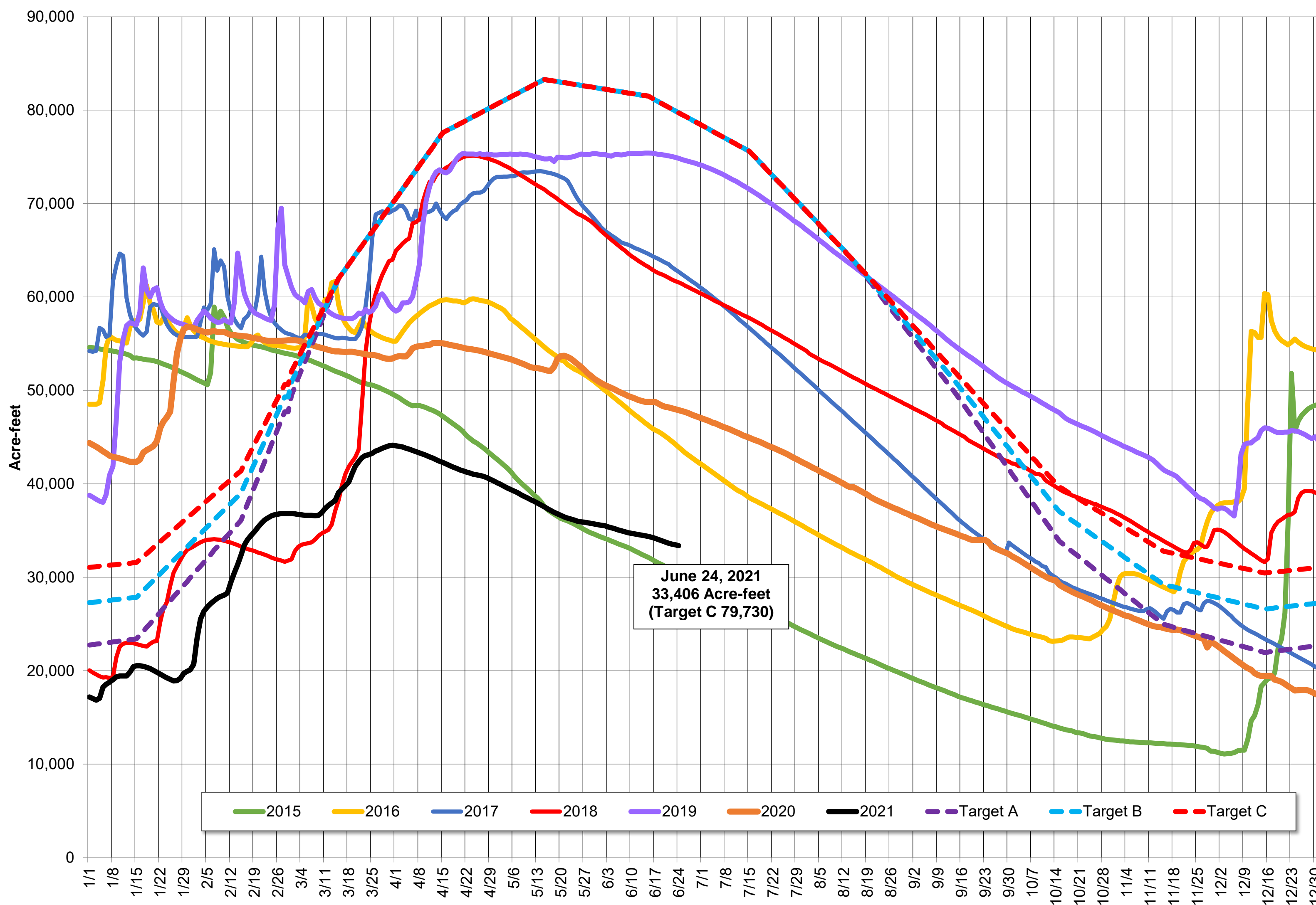
PVP Diversion (cfs)	June 24, 2021	44
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Lake Pillsbury

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2020 - June 24, 2021	87,393	329
	Last 7 days	455	65

*Inflow calculation based on criteria established in D1610

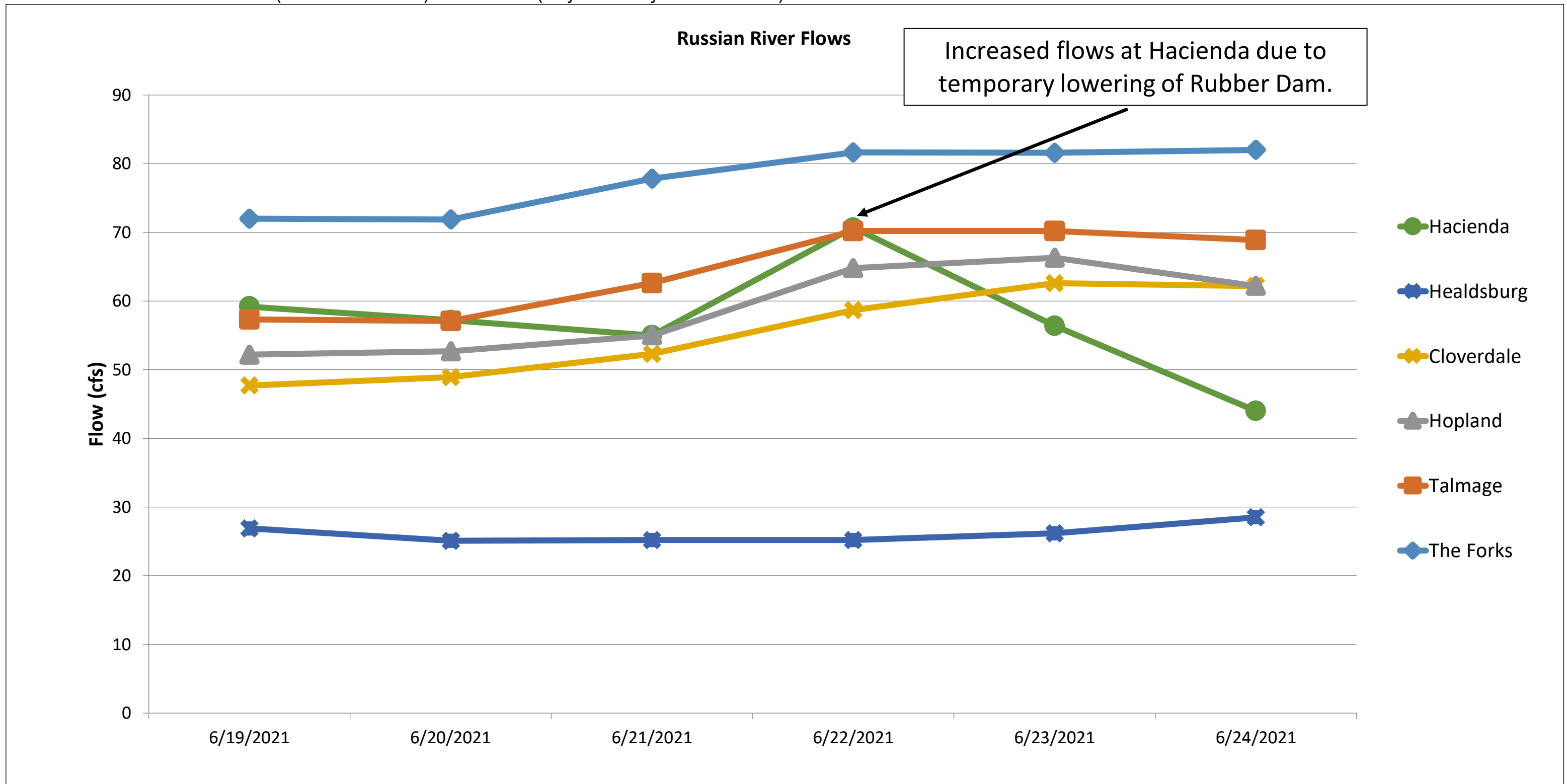
Lake Pillsbury Storage 2015-2021 and Target Storage Scenarios

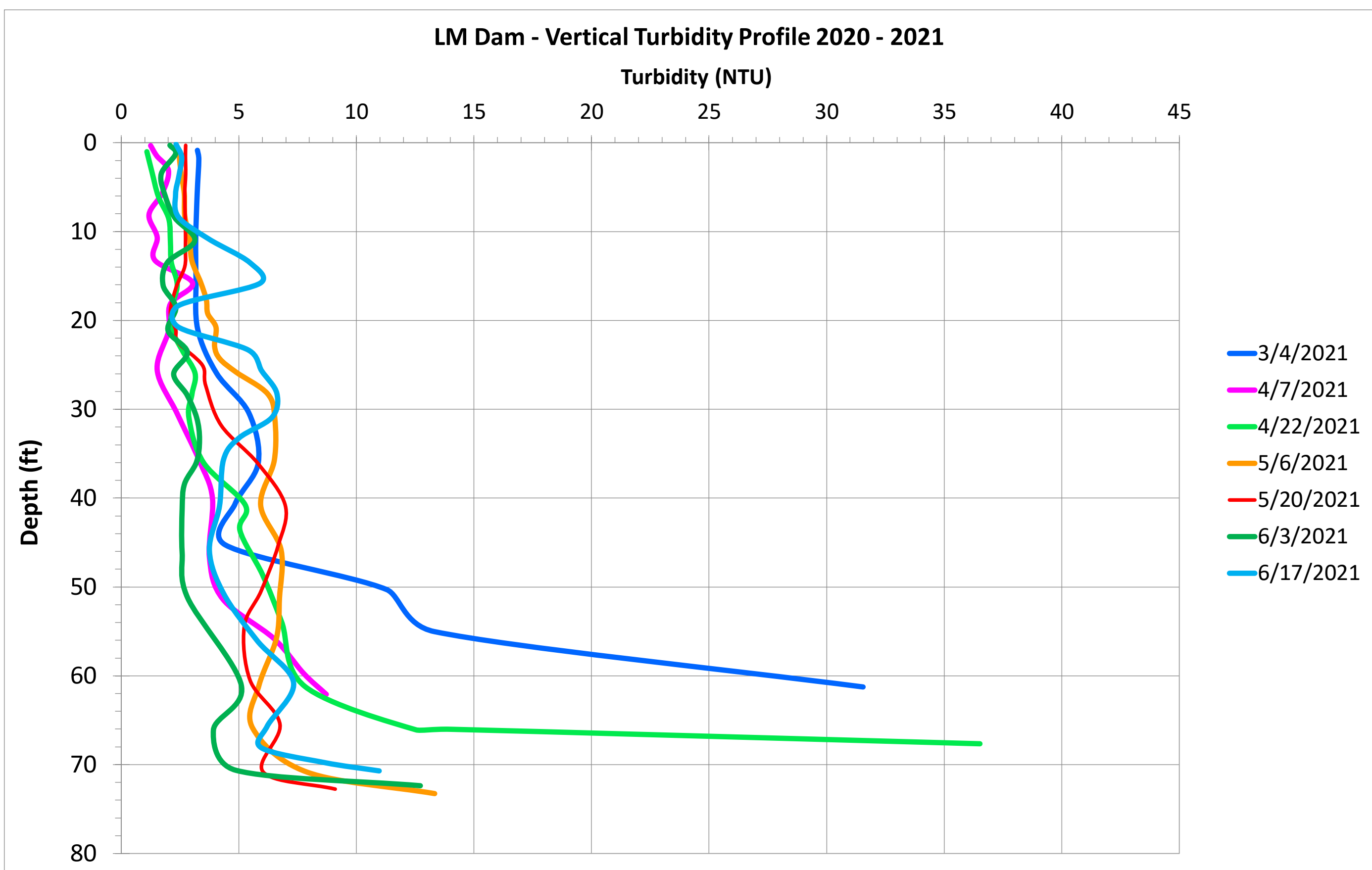
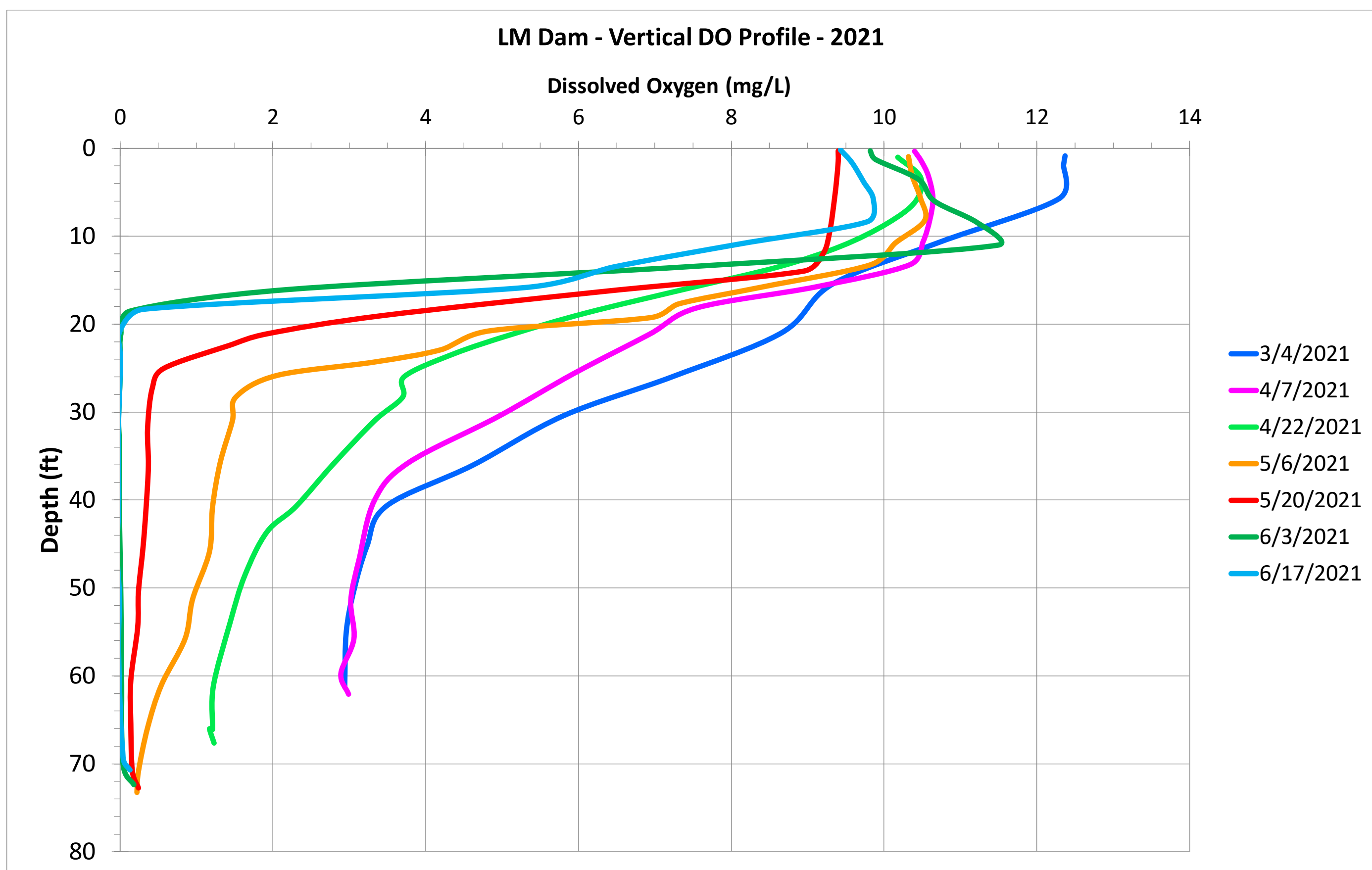
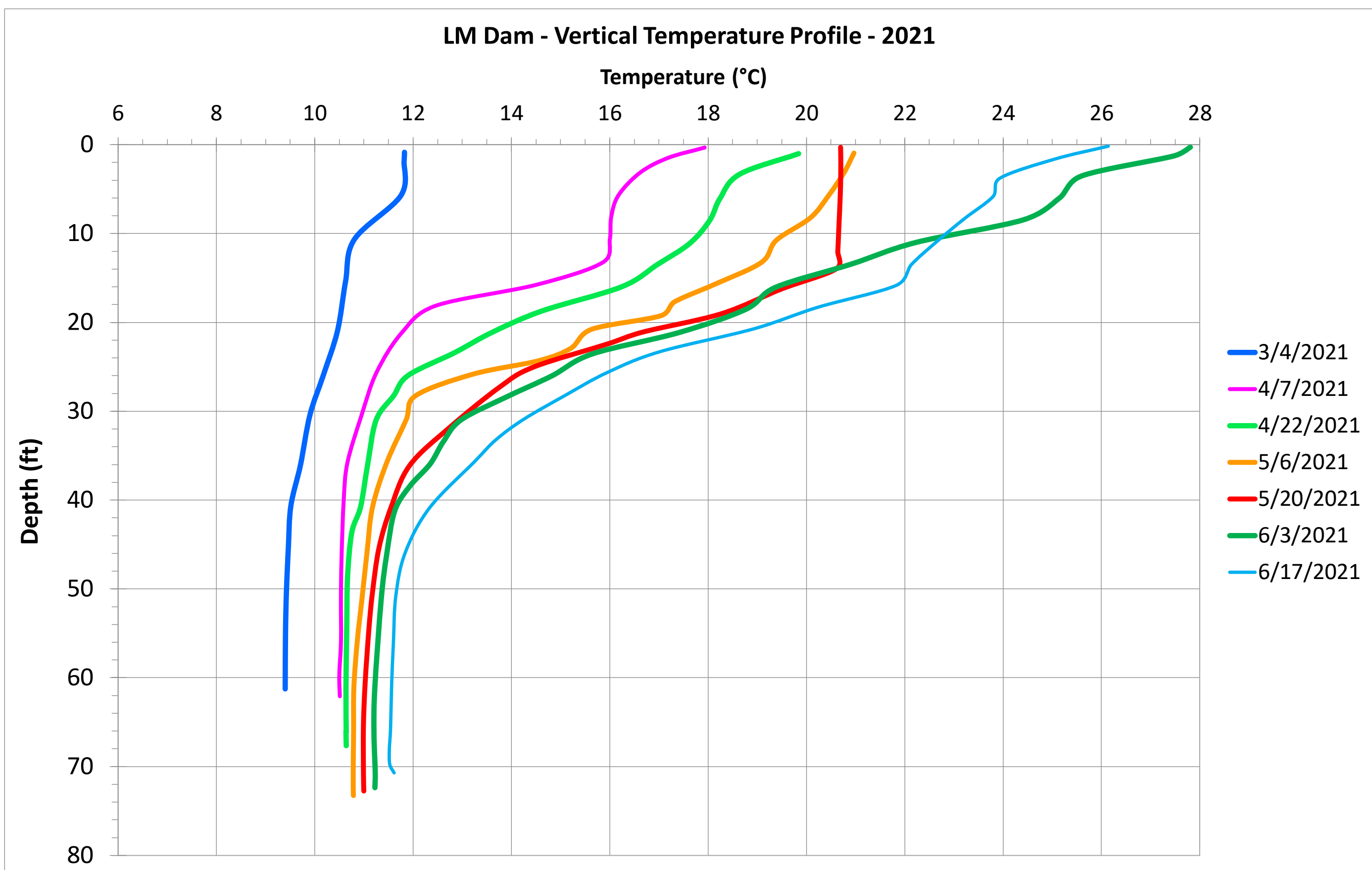


Russian River Flows (June 18 - June 24, 2021)

Gage	24-hr Average Flow (cfs)						
	Jun 18, 2021	Jun 19, 2021	Jun 20, 2021	Jun 21, 2021	Jun 22, 2021	Jun 23, 2021	Jun 24, 2021
The Forks*	72	72	72	78	82	82	82
Talmage USGS 11462080	59	57	57	63	70	70	69
Hopland USGS 11462500	52	52	53	55	65	66	62
Cloverdale USGS 11463000	48	48	49	52	59	63	62
Healdsburg USGS 11464000	30	27	25	25	25	26	29
Hacienda USGS 11467000	64	59	57	55	71	56	44

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

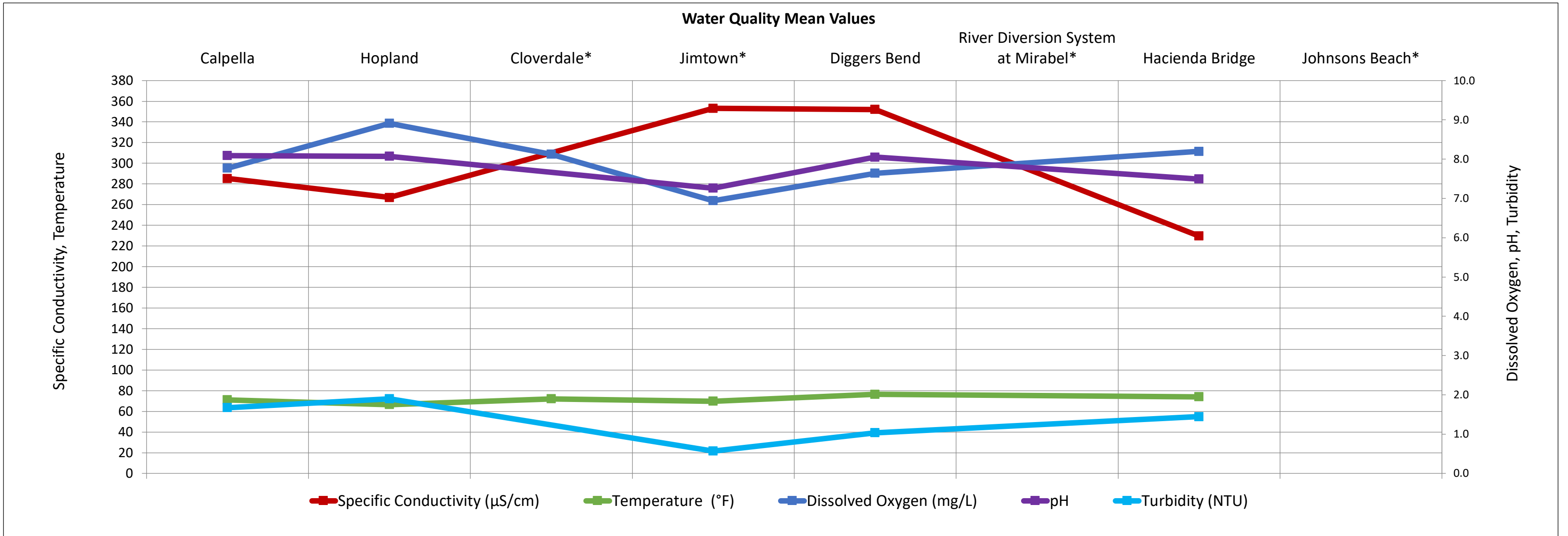




Russian River Water Quality (June 18 - June 24, 2021)
Provisional Data Subject to Revision

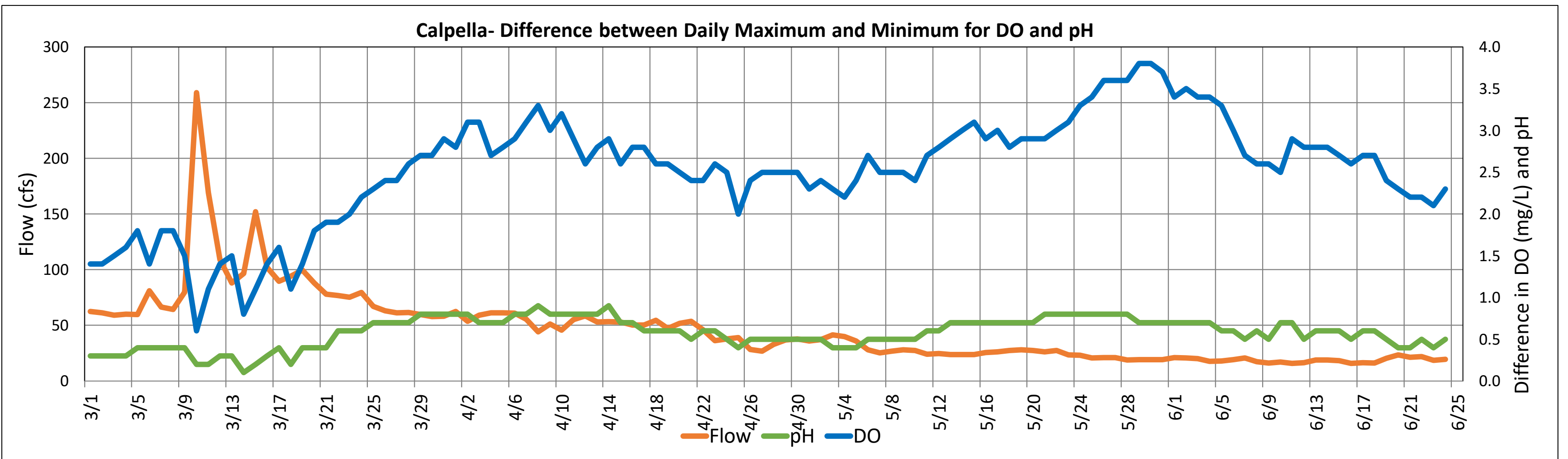
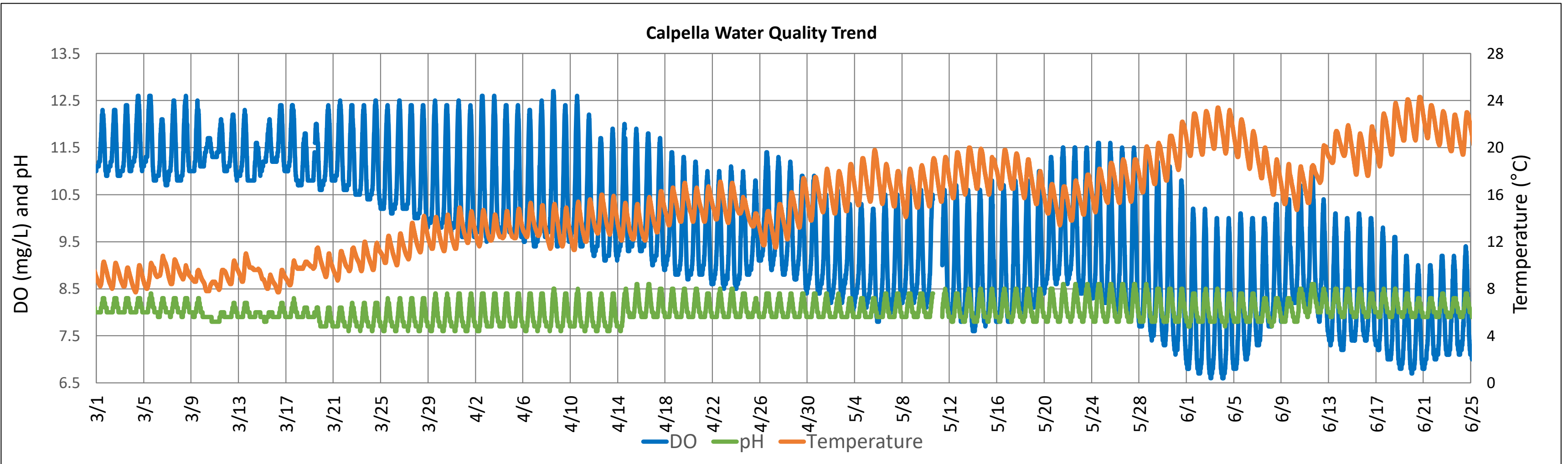
Parameter		East Fork Below Lake Mendocino	Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		SCWA	USGS 11461500	USGS 11462500	USGS 11463200	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min		65.1	61.5	67.8	65.1	70.9		69.4	
	Max		75.7	70.0	77.9	75.7	83.5		77.4	
	Mean		71.2	66.4	72.1	69.8	76.5		74.0	
Specific Conductivity (µS/cm)	Min		269	262		347	347		223	
	Max		300	270		357	356		234	
	Mean		285	267		353	352		230	
Dissolved Oxygen (mg/L)	Min		6.7	6.5	6.9	4.4	5.3		7.2	
	Max		9.8	11.9	9.8	10.4	10.6		9.3	
	Mean		7.8	8.9	8.1	6.9	7.6		8.2	
Dissolved Oxygen (% Saturation)	Min		71	66	74	46	59		79	
	Max		116	133	119	124	135		113	
	Mean		87	96	93	76	91		96	
pH	Min		7.9	7.6		7.1	7.8		7.3	
	Max		8.5	8.6		7.5	8.4		7.8	
	Mean		8.1	8.1		7.3	8.0		7.5	
Turbidity (NTU)	Min		0.8	1.1		0.2	0.2		0.9	
	Max		4.1	6.0		1.1	3.1		2.4	
	Mean		1.7	1.9		0.6	1.0		1.4	

*Station operated seasonally



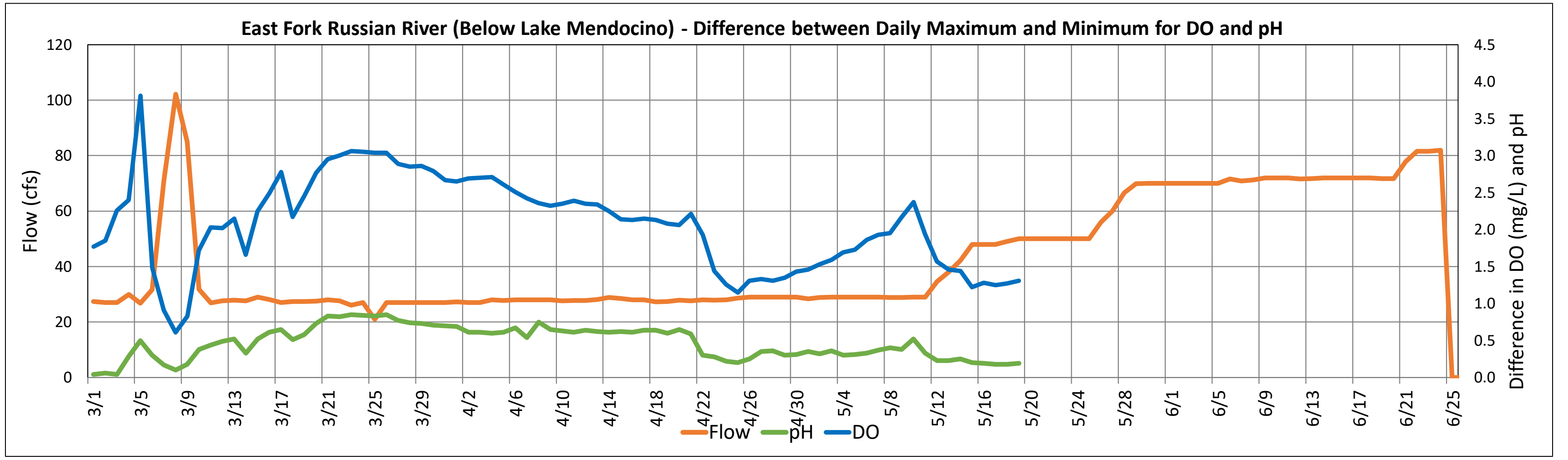
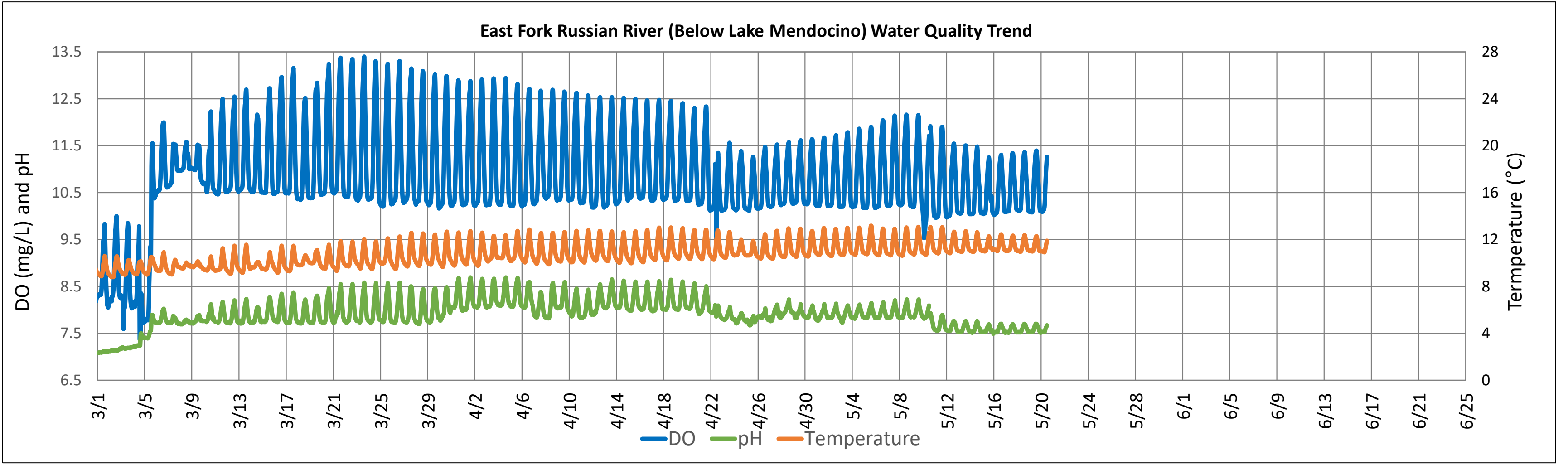
Russian River Water Quality (March 1 - June 24, 2021)
Provisional Data Subject to Revision

Calpella (East Fork Russian River)

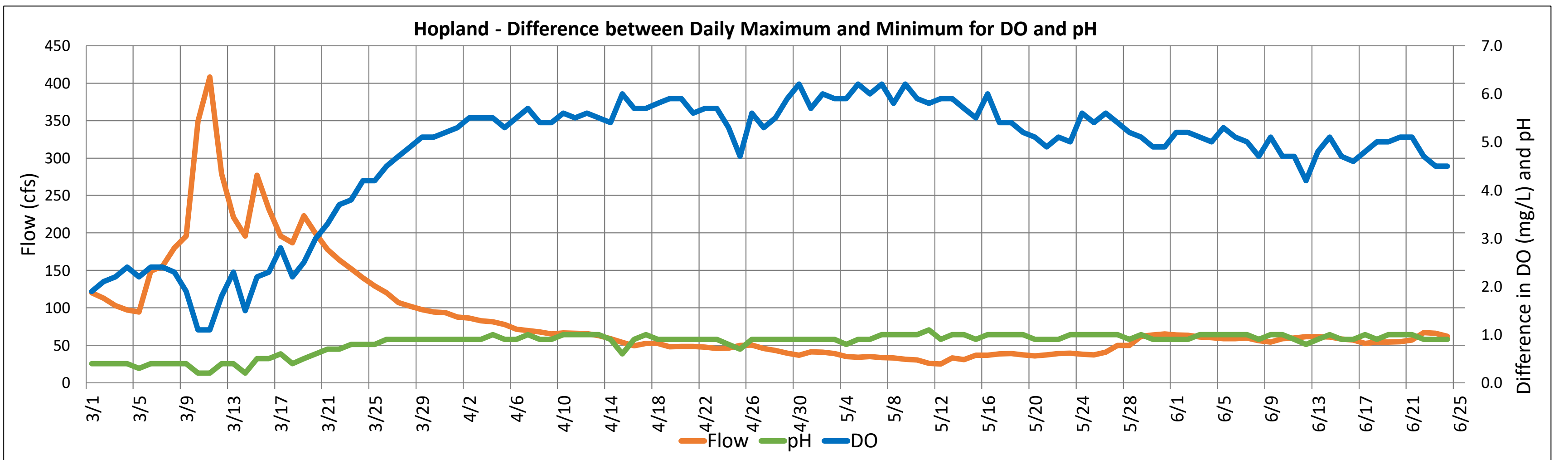
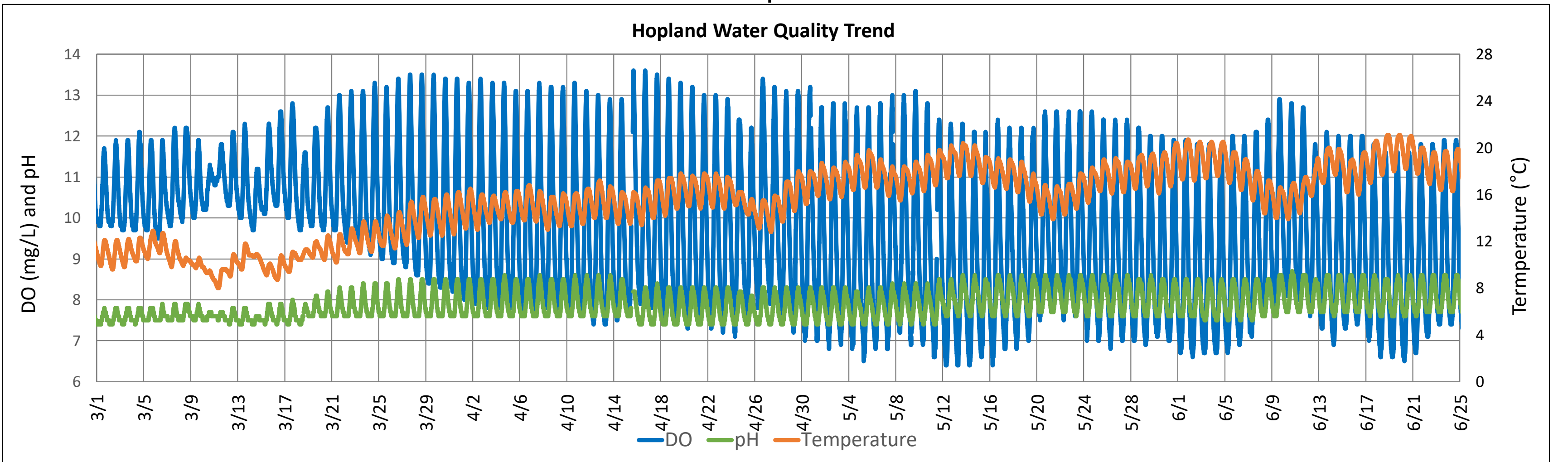


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East Fork Russian River (Below Lake Mendocino)

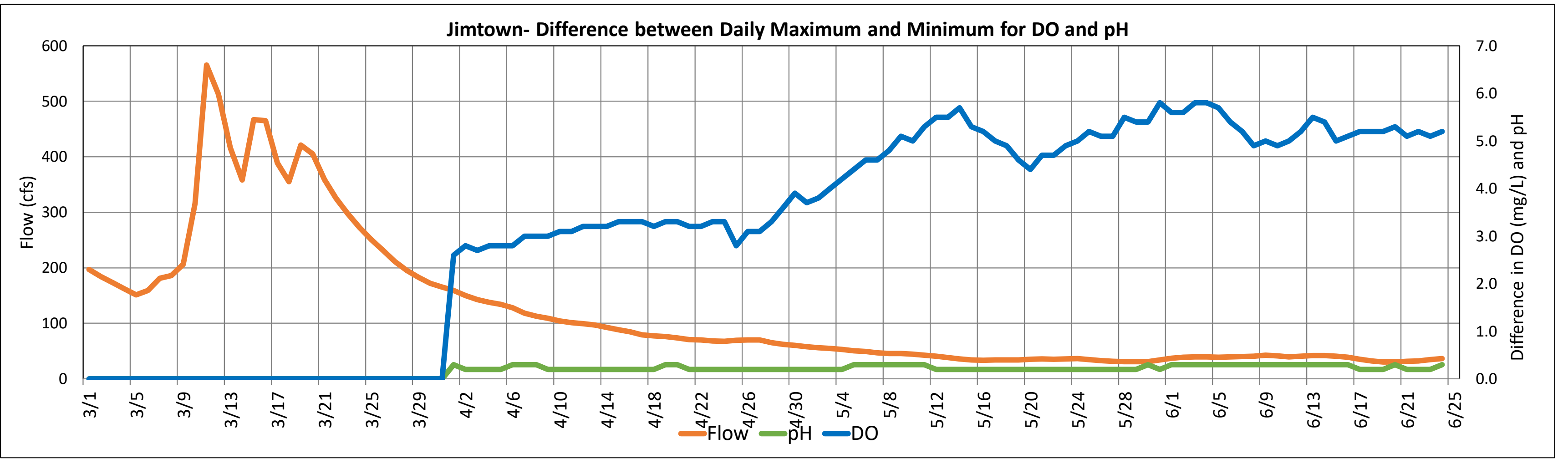
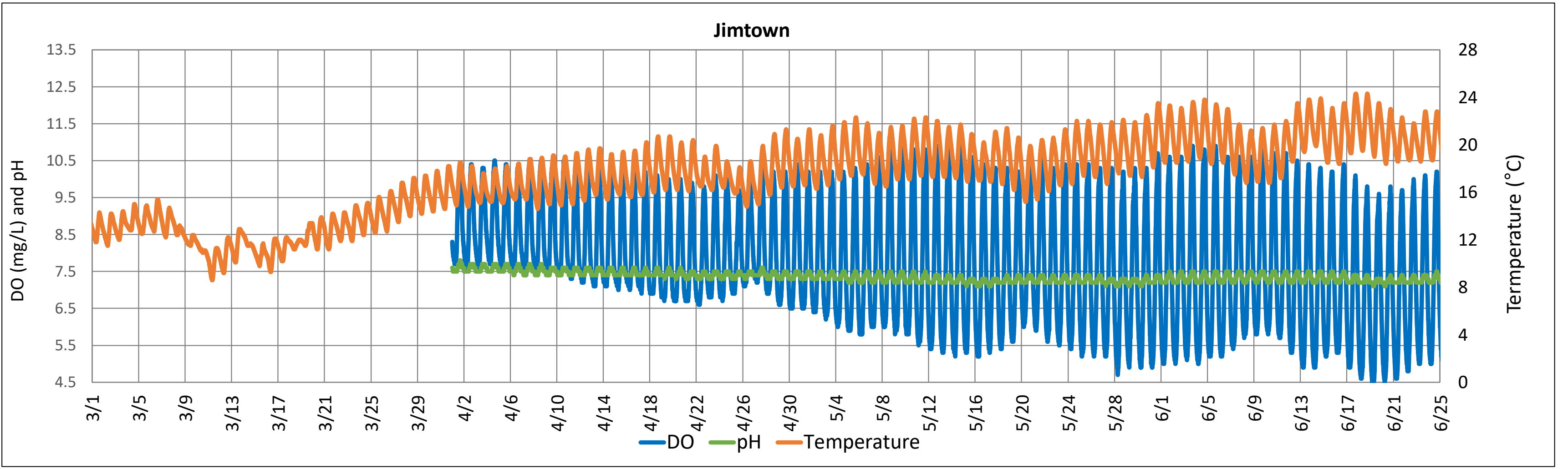


Hopland

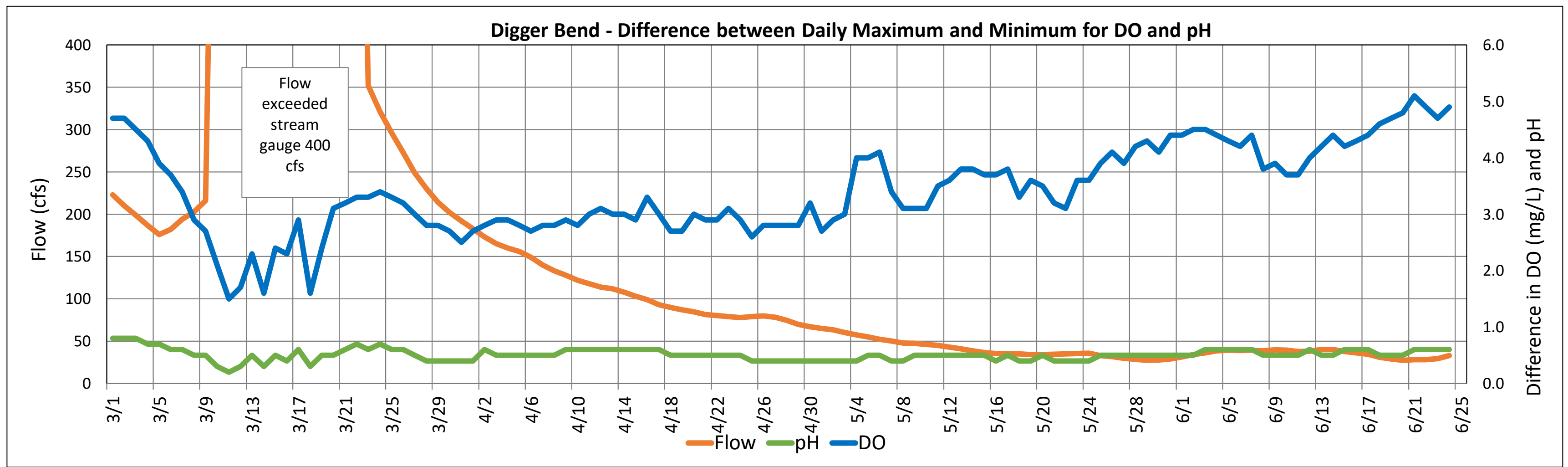
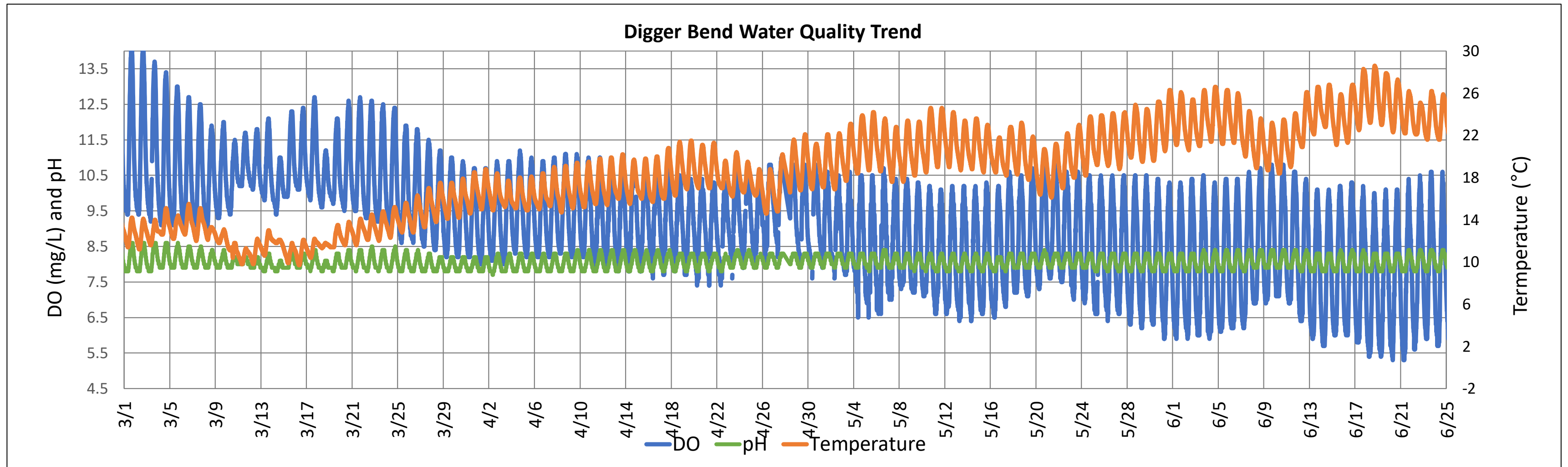


Russian River Water Quality (March 1 - June 24, 2021)
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Jimtown Water Quality

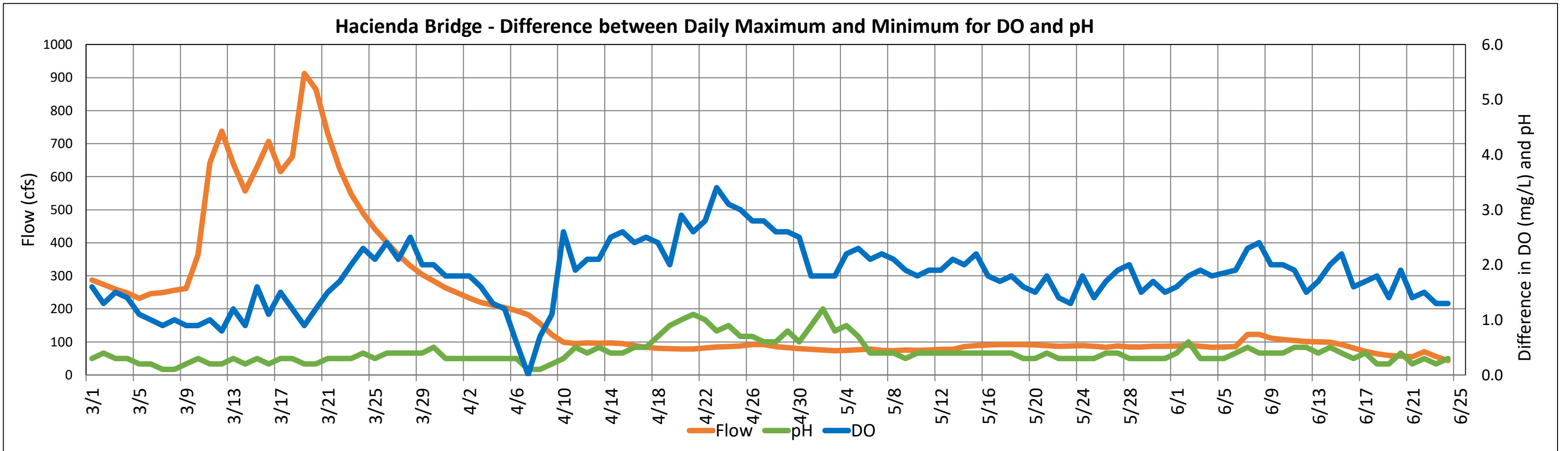
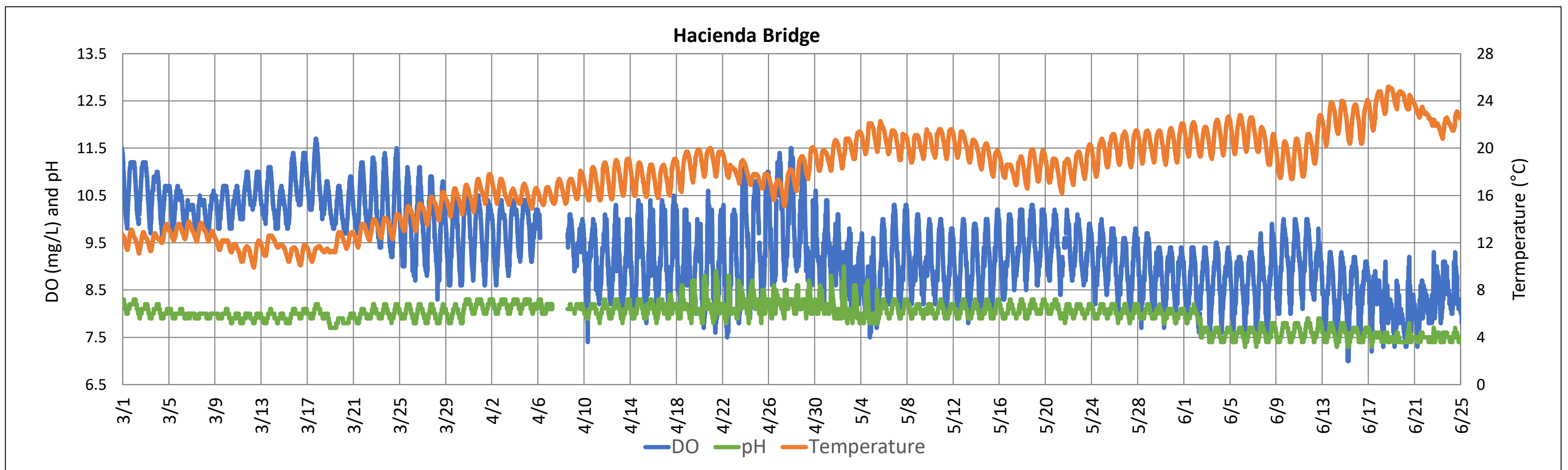


Digger Bend



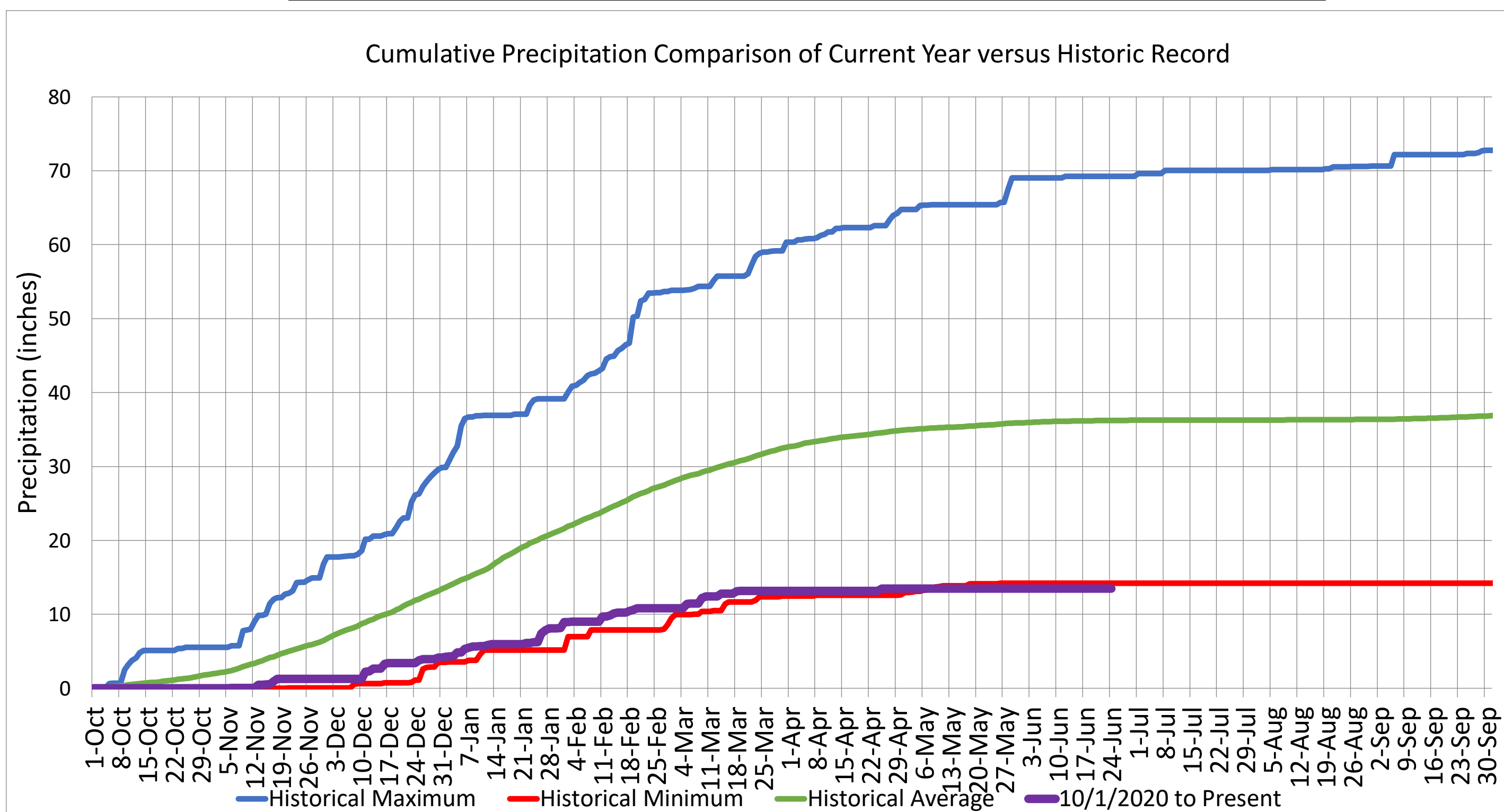
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Hacienda Bridge Water Quality

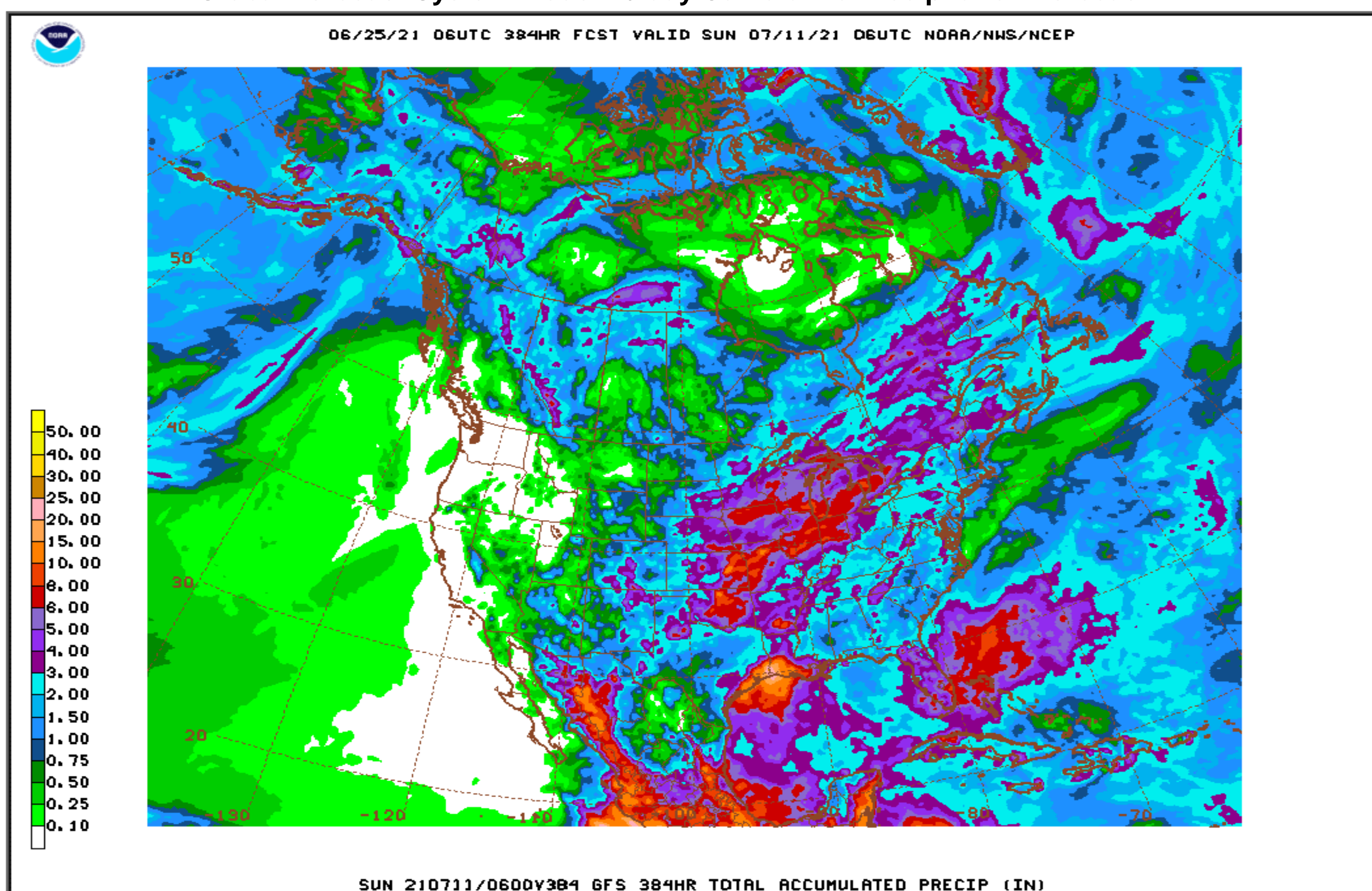


Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2020 - Jun 24, 2021	13.48
Last 7 Days*	0.00



Global Forecast System Model 16-day Cumulative Precipitation Forecast



Date Range	Forecasted Cumulative (inches)
Jun 25 - Jul 10, 2021	0.0

Lake Mendocino Water Accounting Weekly Report (Term 11)

Report Date: 6/25/2021

Units are cfs unless noted otherwise

	<u>6/18/2021</u>	<u>6/19/2021</u>	<u>6/20/2021</u>	<u>6/21/2021</u>	<u>6/22/2021</u>	<u>6/23/2021</u>	<u>6/24/2021</u>
I. Upper East Fork Reach							
Potter Valley Project							
Tunnel Diversion	51.0	55.0	52.0	50.0	44.0	42.0	43.0
PVID Canals Delivery Requested	46.0	50.0	47.4	45.0	39.5	37.1	38.0
PVID Canals Delivery Actual	22.4	22.9	22.0	23.0	24.5	24.4	24.3
East Fork Release	28.7	32.1	30.1	27.1	19.5	17.6	18.7
PVID Canal Return Flow (assumed)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PVID Canal Diversions	22.4	22.9	22.0	23.0	24.5	24.4	24.3
PVID E Fork Diversions (est.)	21.7	21.7	21.7	21.7	21.7	21.7	21.7
PVID Water Use under PG&E Contract (est.)	22.4	22.9	22.0	23.0	24.5	24.4	24.3
PVID Water Use under Water Right (est.)	21.7	21.7	21.7	21.7	21.7	21.7	21.7
East Fork / Potter Valley Reach Analysis							
USGS E Fork @ Calpella	16.4	18.1	20.7	23.7	21.1	21.4	18.4
Net Reach Loss(-)/Gain(+)	-34.6	-36.9	-31.3	-26.3	-22.9	-20.6	-24.6
Unimpaired Natural Flow @ Calpella (est.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non-PVID East Fork Estimated Reach Losses	-9.4	-7.7	-12.3	-18.3	-23.3	-25.5	-21.4
Natural Flow	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Import (neg. value is return flow)	-9.4	-7.7	-12.3	-18.3	-23.3	-25.5	-21.4
II. Lake Mendocino							
Reservoir Operations							
Calculated Inflow (ac-ft)	45.8	32.9	45.6	54.9	20.9	9.8	13.4
(cfs)	23	17	23	28	11	5	7
Natural Flow	0	0	0	0	0	0	0
Import	23	17	23	28	11	5	7
Storage Change (ac-ft)	-124.0	-137.0	-125.0	-124.0	-161.0	-172.0	-172.0
(cfs)	-63	-69	-63	-63	-81	-87	-87
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)	27.0	27.7	28.4	24.6	20.1	20.0	22.9
RVCWD Diversion (ac-ft) (assum.)	0	2	0	0	11	17	12
CVD Release Gage	72	72	72	78	82	82	82
Storage (Project Water)	63	69	63	63	81	82	82
Natural Flow	0	0	0	0	0	0	0
Import Water	9	3	9	15	0	0	0
East Fork Min Instream Flow Requirement	25	25	25	25	25	25	25
Compliance Gage	<i>Rvr mi.</i>						
CVD Release	99.9	72	72	72	78	82	82
CVD Project Water Release to Meet Min Flow Requirement							
Total Pass-through Water	9	3	9	15	0	0	0
Project Water Release Required	Yes	Yes	Yes	Yes	Yes	Yes	Yes
III. Upper Russian River Reach							
Minimum Instream Flow Requirement	15	15	15	15	15	15	15
Controlling Compliance Gage							
Min Gage Flow	28	26	24	25	25	26	29
Controlling Gage	Digger Bend	Digger Bend	Digger Bend	Digger Bend	Digger Bend	Healdsburg	Healdsburg
All Compliance Gages							
	<i>Rvr mi.</i>						
Forks (CVD + USGS 11461000)	99.0	72	72	72	78	82	82
Talmage (USGS 11462080)	96.1	59	57	57	63	70	69
Hopland (USGS 11462500)	84.8	52	52	53	55	65	62
Cloverdale (USGS 11463000)	70.9	48	48	49	52	59	62
Geyserville (USGS 11463500)	54.4	34	31	30	33	36	42
Jimtown (USGS 11463682)	48.5	32	30	30	32	32	35
Digger Bend (USGS 11463980)	38.2	28	26	24	25	25	30
Healdsburg (USGS 11464000)	35.6	30	27	25	25	25	26
Net Reach Loss(-)/Gain(+)							
Forks - Talmage	-14	-15	-16	-12	-11	-11	-13
Talmage - Hopland	-6	-3	-2	-1	-1	-4	-7
Hopland - Cloverdale	-5	-7	-6	-3	-1	-4	-3
Cloverdale - Jimtown	-18	-17	-17	-17	-20	-24	-26
Jimtown - Digger Bend	-3	-3	-3	-3	-4	-4	-3
Digger Bend - Healdsburg	-2	-2	-3	-3	-3	-3	-4
CVD Project Water Release to Meet Min Flow Requirement							
Net Reach Loss(-)/Gain(+) to Controlling Gage	-46	-45	-44	-36	-38	-51	-56
Storage (Project Water)	+46	+45	+44	+36	+38	+51	+56
Pass-through Water (Natural + Import)	+0	+0	+0	+0	+0	+0	+0
Total Pass-through Water	9	3	9	15	0	0	0
Project Water Release Required	Yes	Yes	Yes	No	Yes	Yes	Yes

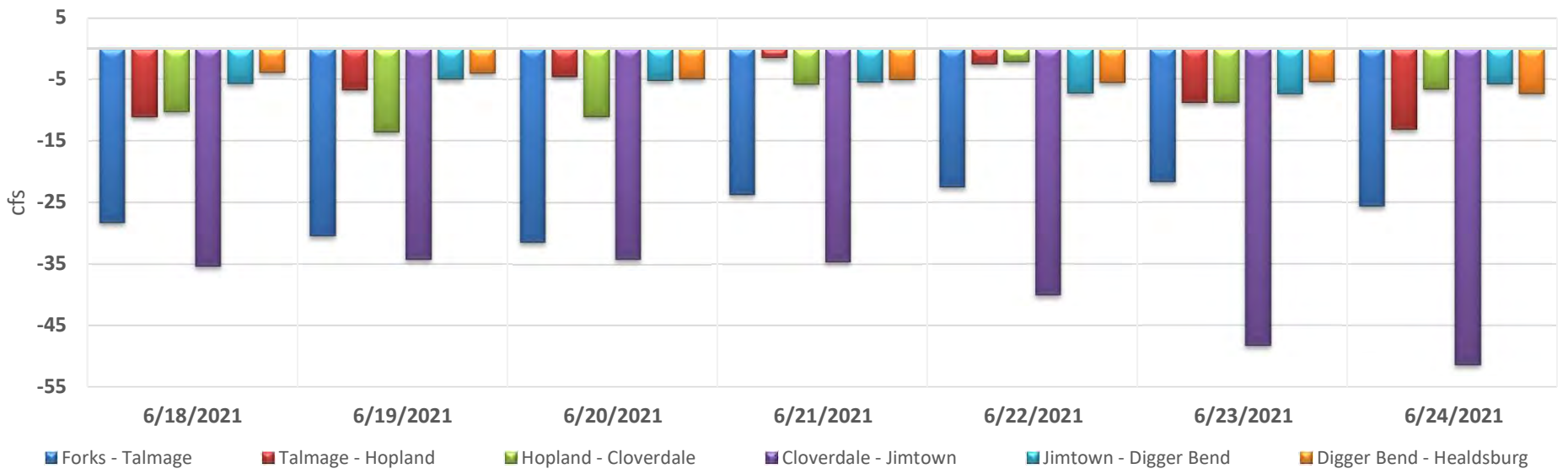
Notes:

- 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.

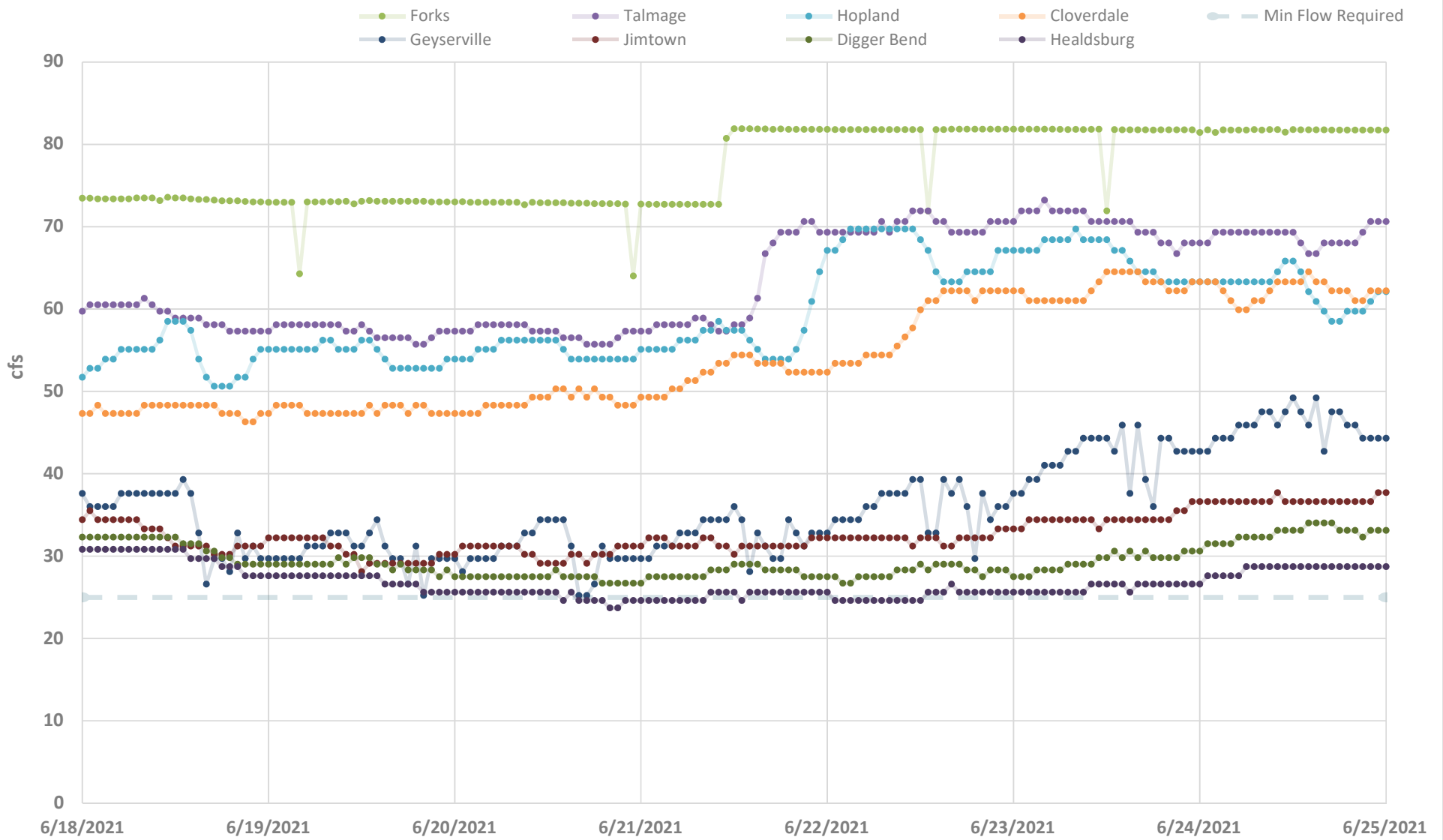
Lake Mendocino Water Accounting Weekly Report (Term 11)

Report Date: 6/25/2021

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



UPPER RUSSIAN RIVER STREAM FLOWS



MAP OF UPPER RUSSIAN RIVER and STREAM GAGES

