



State Water Resources Control Board
 Temporary Urgency Change Order (6/14/2021)
 Russian River Hydrologic Report
 June 25, 2021 - July 1, 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).

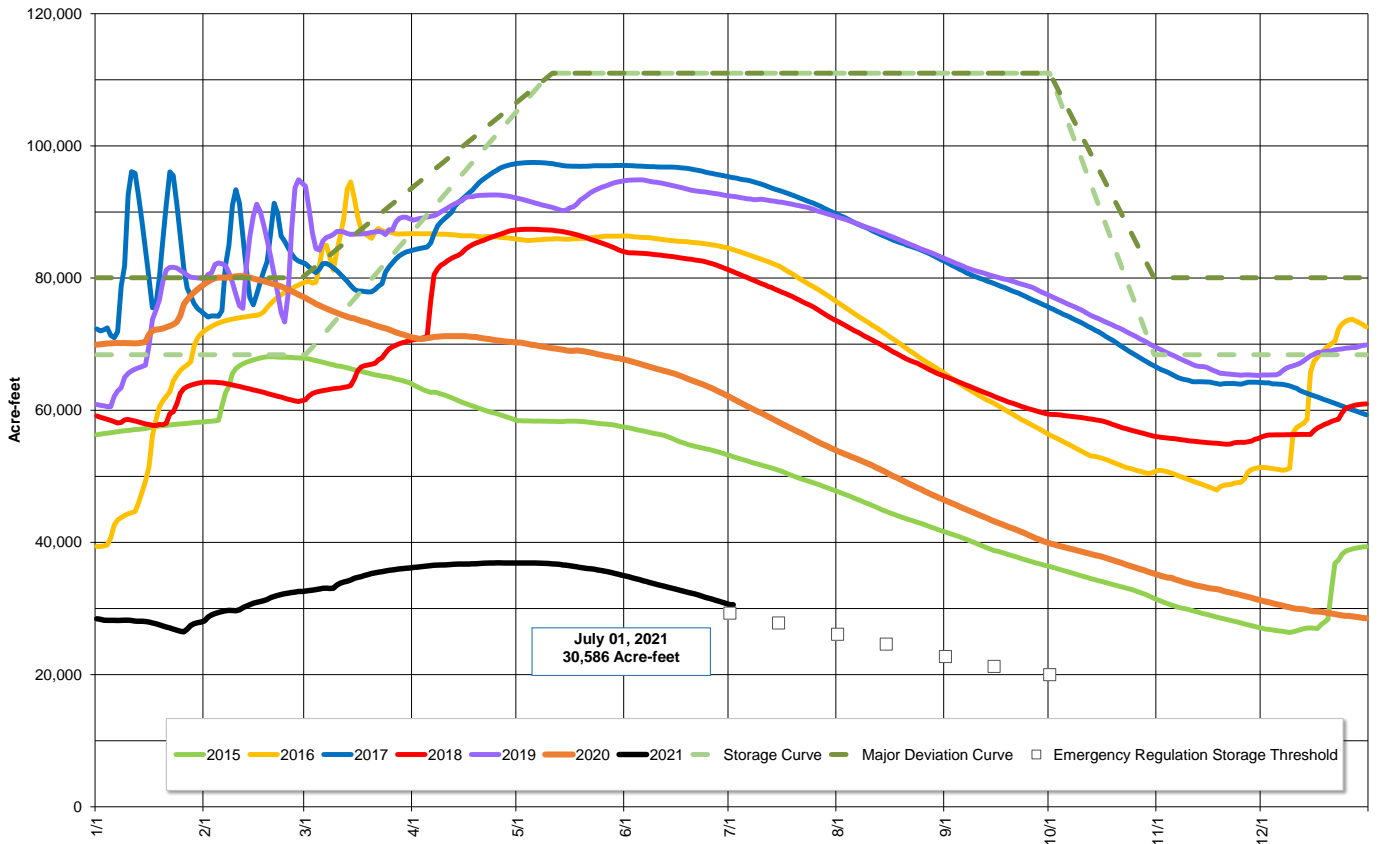
Instream Flow Requirements as of July 1, 2021

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

Lake Mendocino Storage 2015 - 2021 and Storage Curve

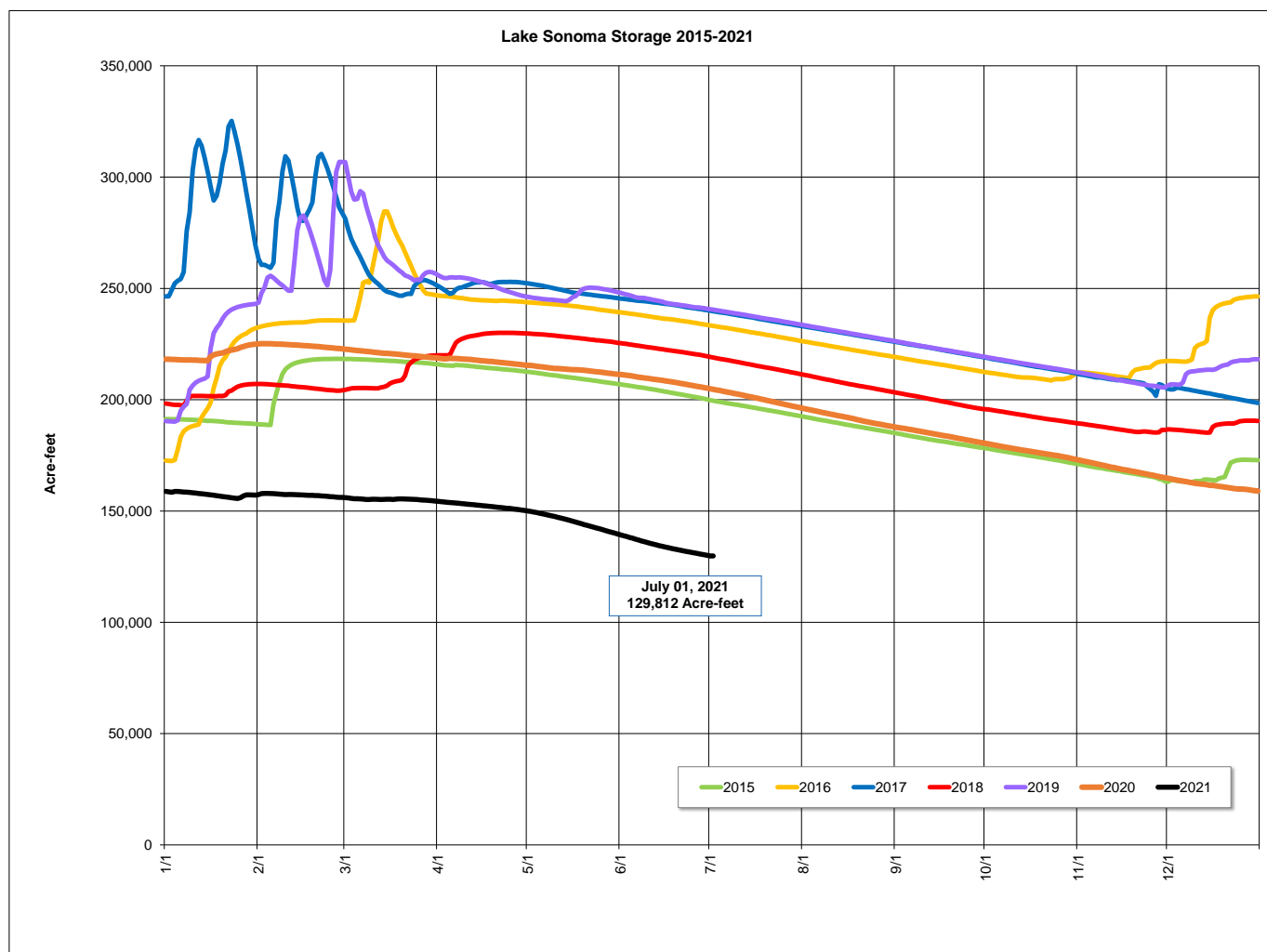


Storage (acre-feet)	July 1, 2021	30,586	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
	Last 7 days	-4,337	-145
Daily inflow (cfs)	Last 7 days	Min	7
		Max	24
		Mean	15
Release (cfs)	Last 7 days	Min	82
		Max	84
		Mean	83

Lake Sonoma



Nathan Baskett, March 3, 2021



Storage (acre-feet)	July 1, 2021	129,812	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
	Last 7 days	-9,484	-316
Daily Inflow (cfs)	Last 7 days	Min	0
		Max	0
		Mean	0
Release (cfs)	Last 7 days	Min	101
		Max	107
		Mean	105

Potter Valley Project

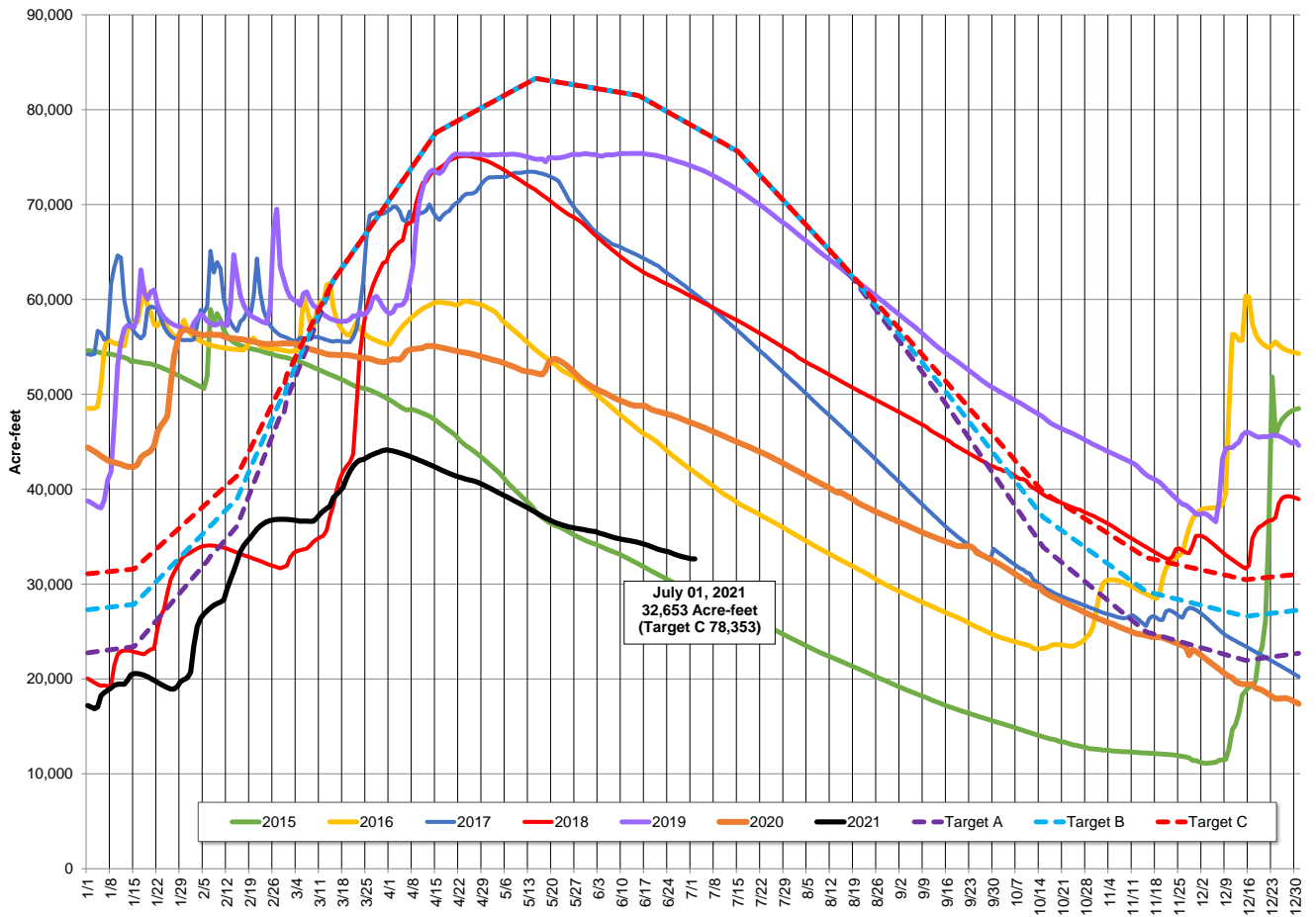
PVP Diversion (cfs)	July 1, 2021	30
---------------------	--------------	----

Lake Pillsbury

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2020 - July 1, 2021	87,593	321
	Last 7 days	200	29

*Inflow calculation based on criteria established in D1610

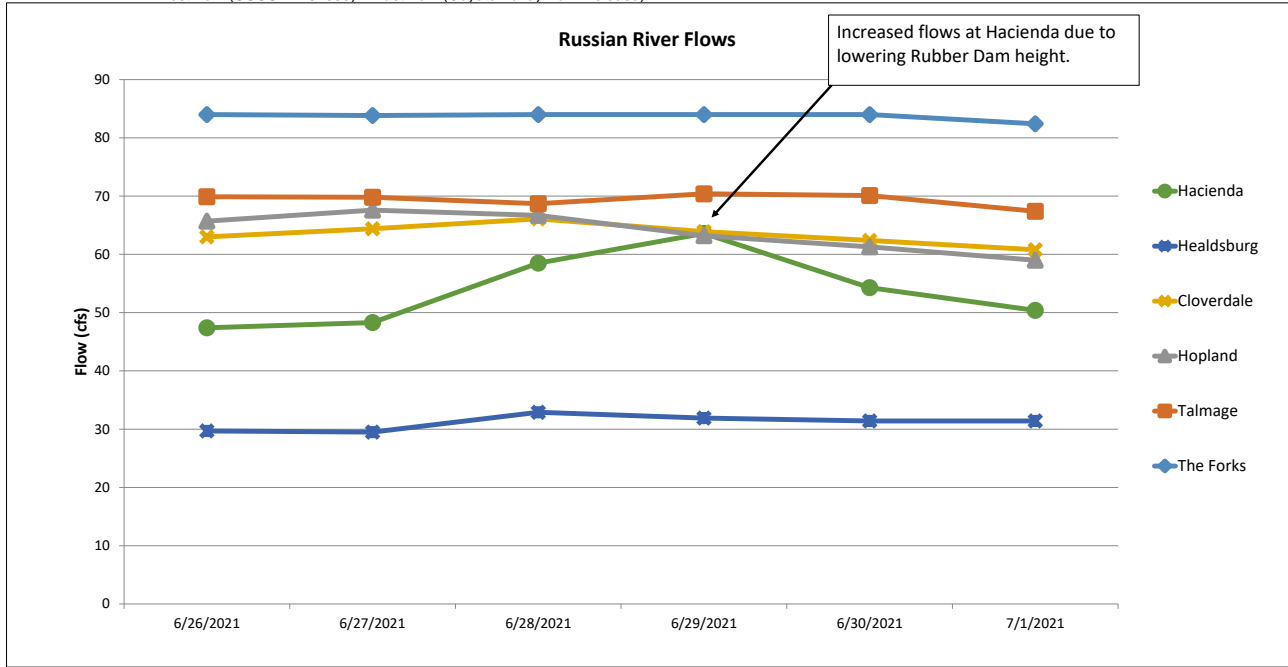
Lake Pillsbury Storage 2015-2021 and Target Storage Scenarios



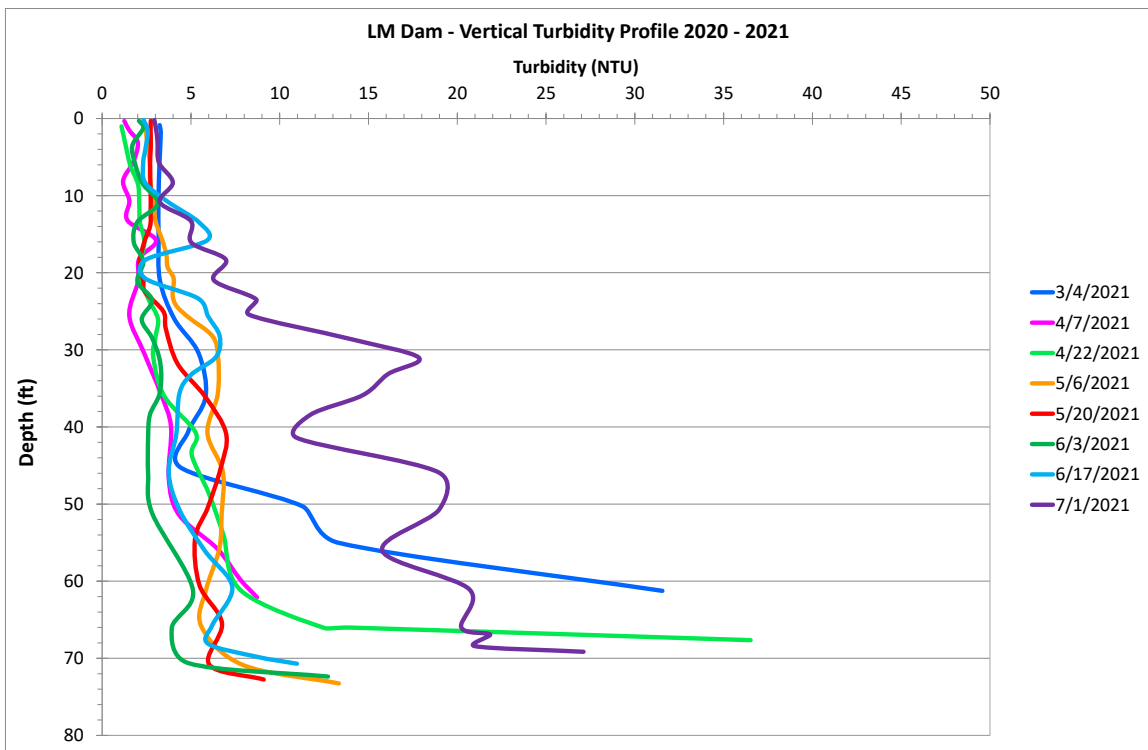
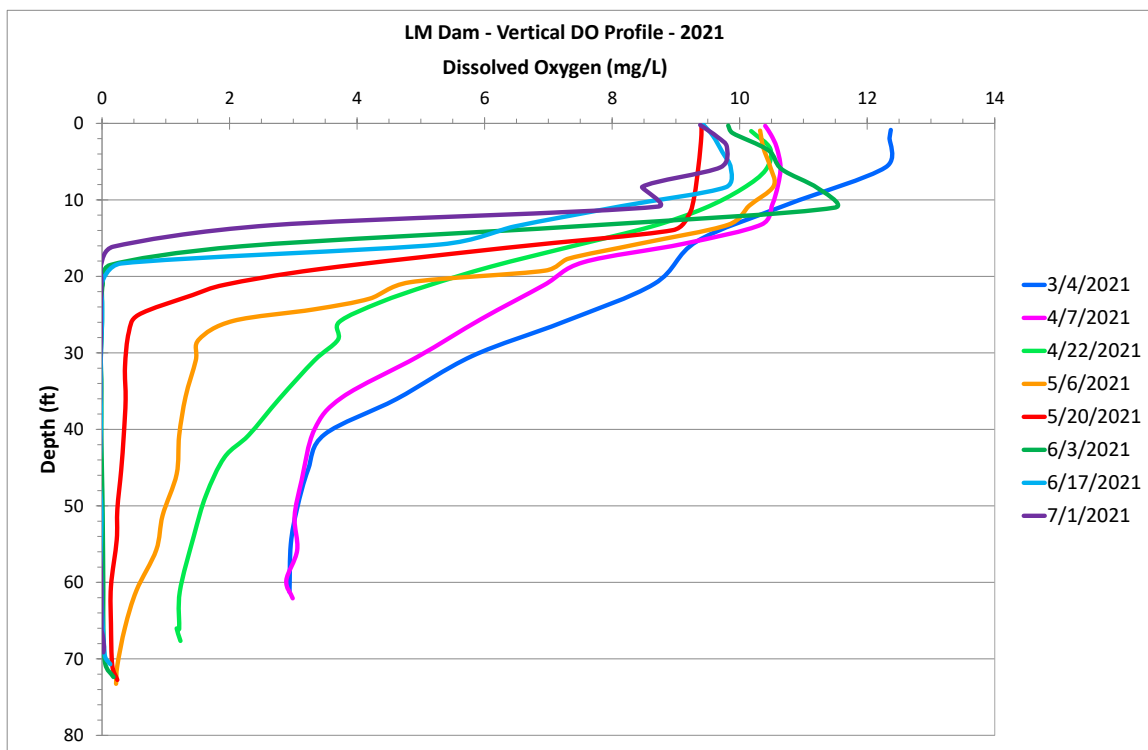
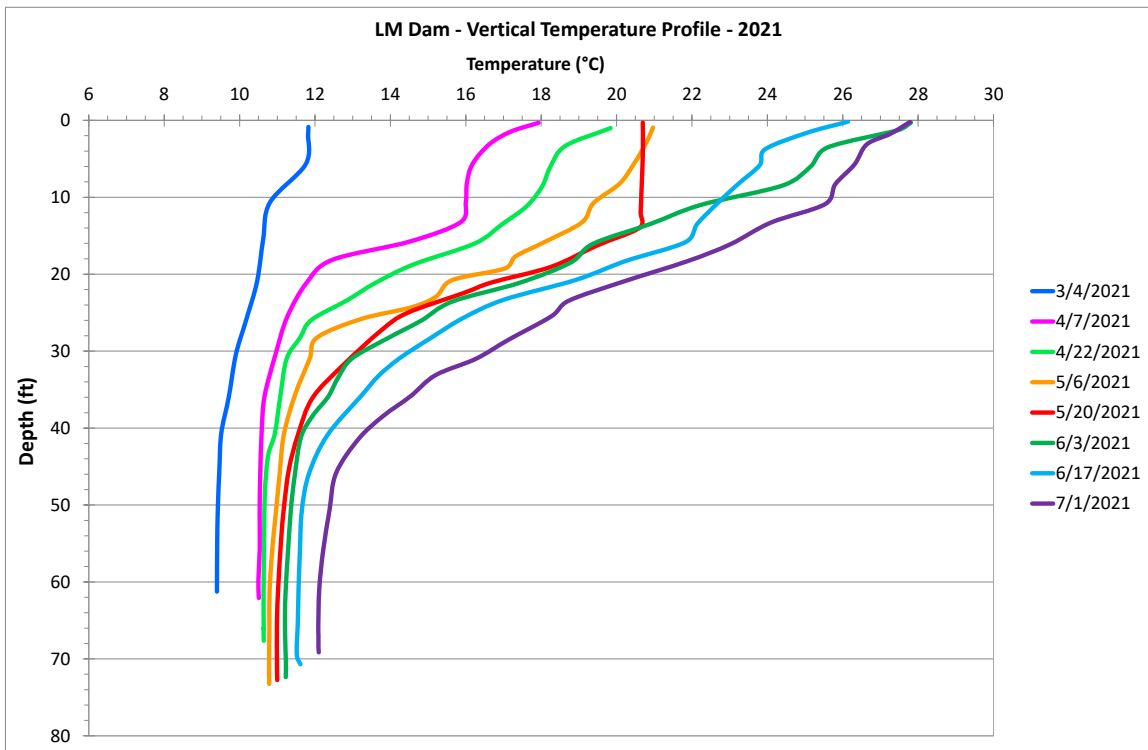
Russian River Flows (June 25 - July 1, 2021)

Gage	24-hr Average Flow (cfs)						
	Jun 25, 2021	Jun 26, 2021	Jun 27, 2021	Jun 28, 2021	Jun 29, 2021	Jun 30, 2021	Jul 1, 2021
The Forks*	84	84	84	84	84	84	82
Talmage USGS 11462080	70	70	70	69	70	70	67
Hopland USGS 11462500	64	66	68	67	63	61	59
Cloverdale USGS 11463000	62	63	64	66	64	62	61
Healdsburg USGS 11464000	30	30	30	33	32	31	31
Hacienda USGS 11467000	46	47	48	59	64	54	50

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



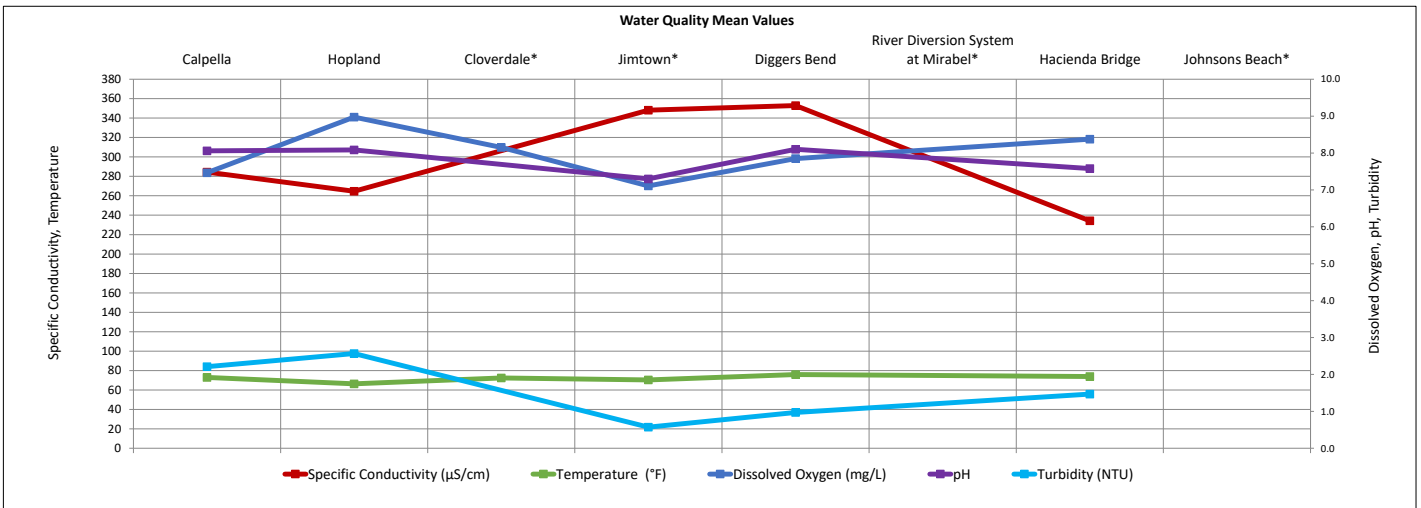
Lake Mendocino Water Quality Vertical Profiles (June 25 - July 1, 2021)



Russian River Water Quality (June 25 - July 1, 2021)
Provisional Data Subject to Revision

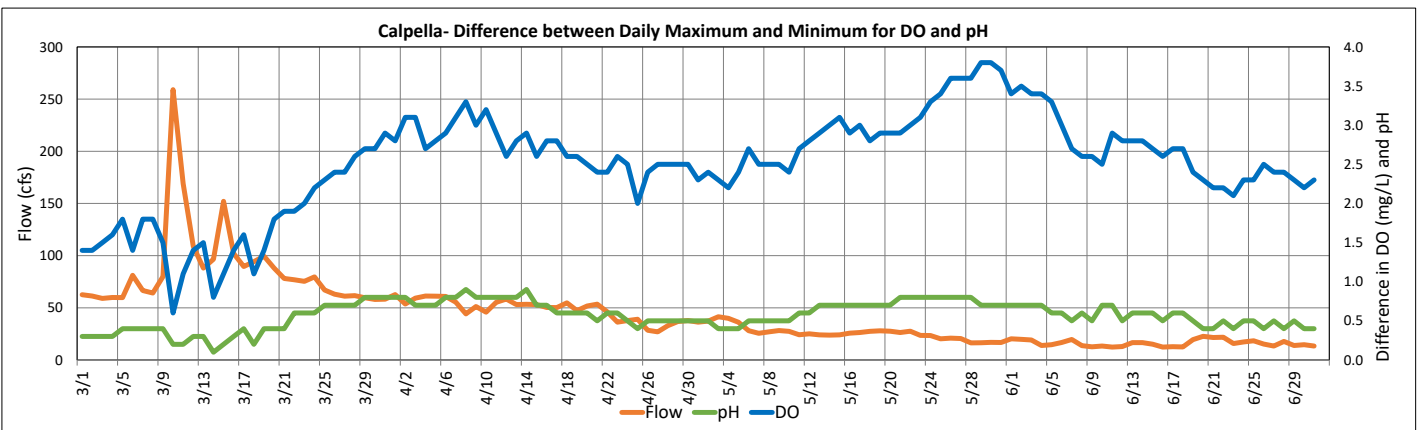
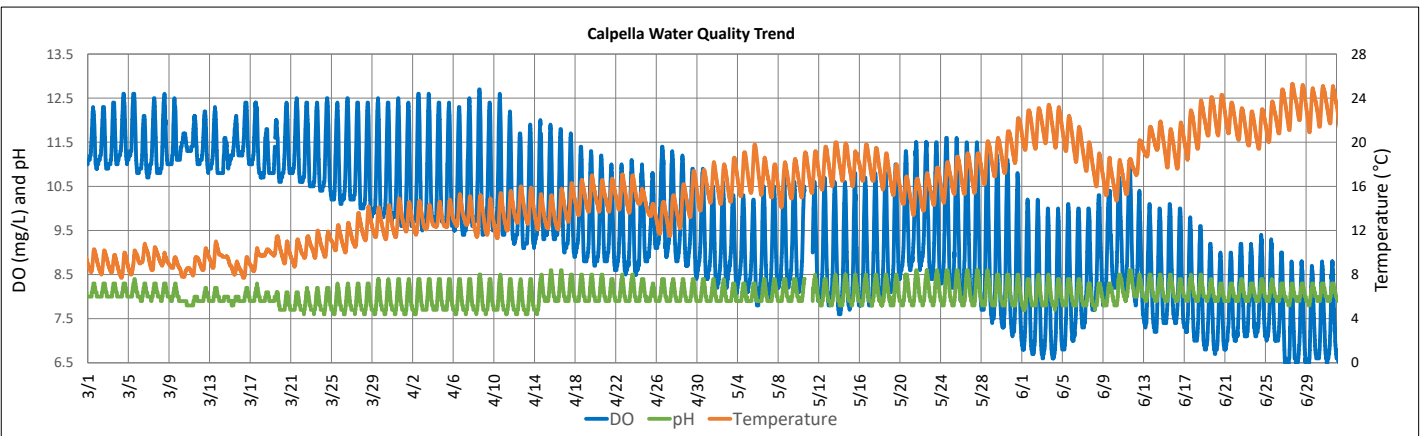
Parameter		East Fork Below Lake Mendocino	Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		SCWA	USGS 11461500	USGS 11462500	USGS 11463200	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min		66.9	61.3	67.6	65.7	70.9		70.7	
	Max		77.5	70.5	78.1	75.9	81.9		76.5	
	Mean		72.9	66.3	72.4	70.4	75.9		73.9	
Specific Conductivity (µS/cm)	Min		277	260		344	349		229	
	Max		294	267		353	356		238	
	Mean		284	265		348	353		234	
Dissolved Oxygen (mg/L)	Min		6.4	6.9	7.0	4.7	5.3		7.5	
	Max		9.4	11.9	9.8	10.2	11.1		10.4	
	Mean		7.5	9.0	8.2	7.1	7.9		8.4	
Dissolved Oxygen (% Saturation)	Min		69	70	75	50	59		84	
	Max		114	133	119	121	139		124	
	Mean		85	97	93	80	93		98	
pH	Min		7.8	7.6		7.2	7.8		7.4	
	Max		8.4	8.7		7.5	8.5		8.1	
	Mean		8.1	8.1		7.3	8.1		7.6	
Turbidity (NTU)	Min		1.2	1.6		0.2	0.3		0.8	
	Max		42.7	20.0		1.2	2.2		2.5	
	Mean		2.2	2.6		0.6	1.0		1.5	

*Station operated seasonally



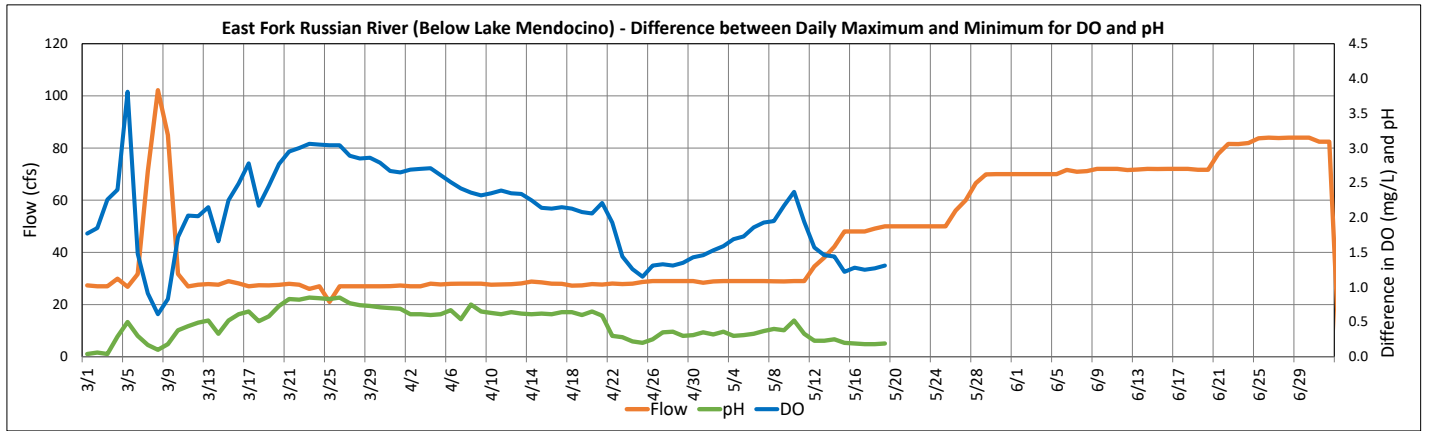
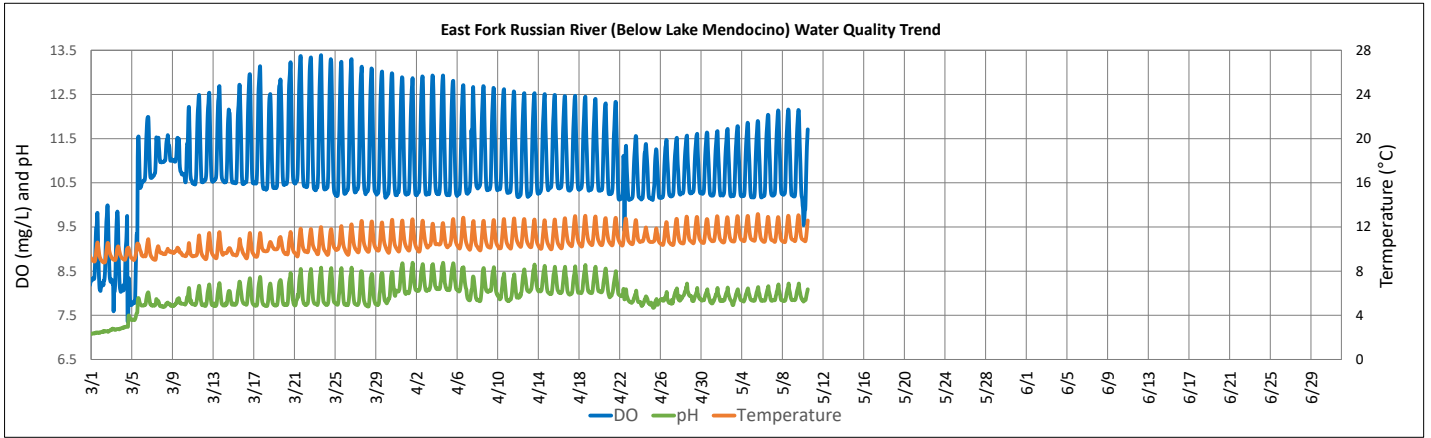
Russian River Water Quality (March 1 - July 1, 2021)
Provisional Data Subject to Revision

Calpella (East Fork Russian River)

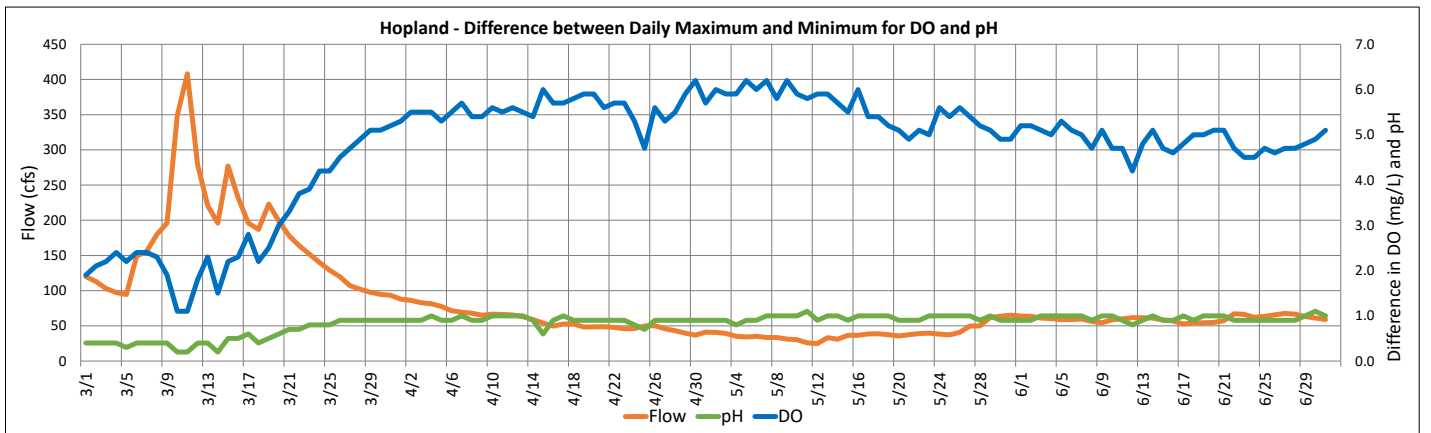
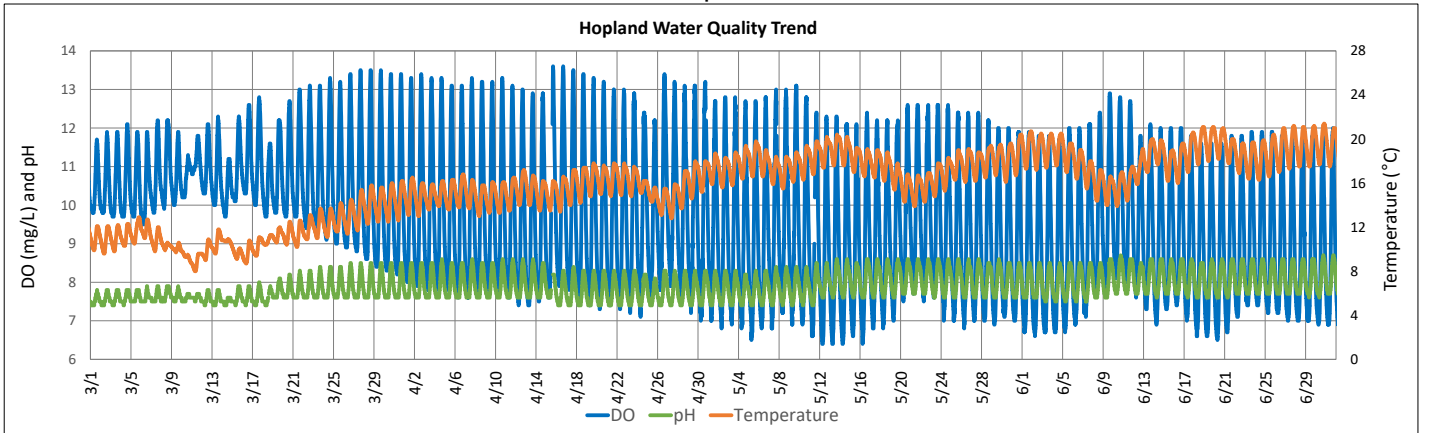


Russian River Water Quality (March 1 - July 1, 2021)
 Provisional Data Subject to Revision

East Fork Russian River (Below Lake Mendocino)

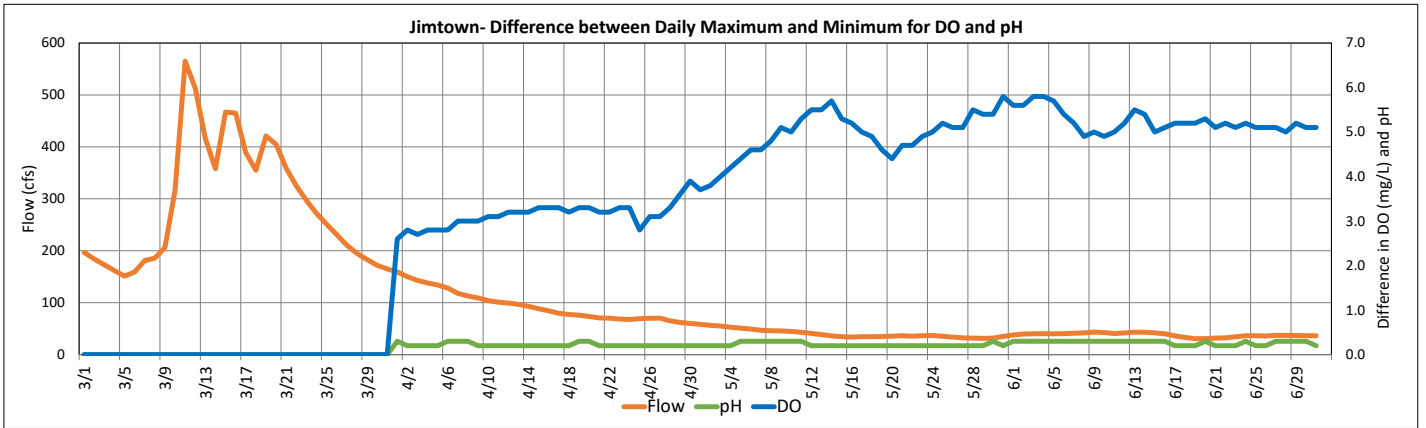
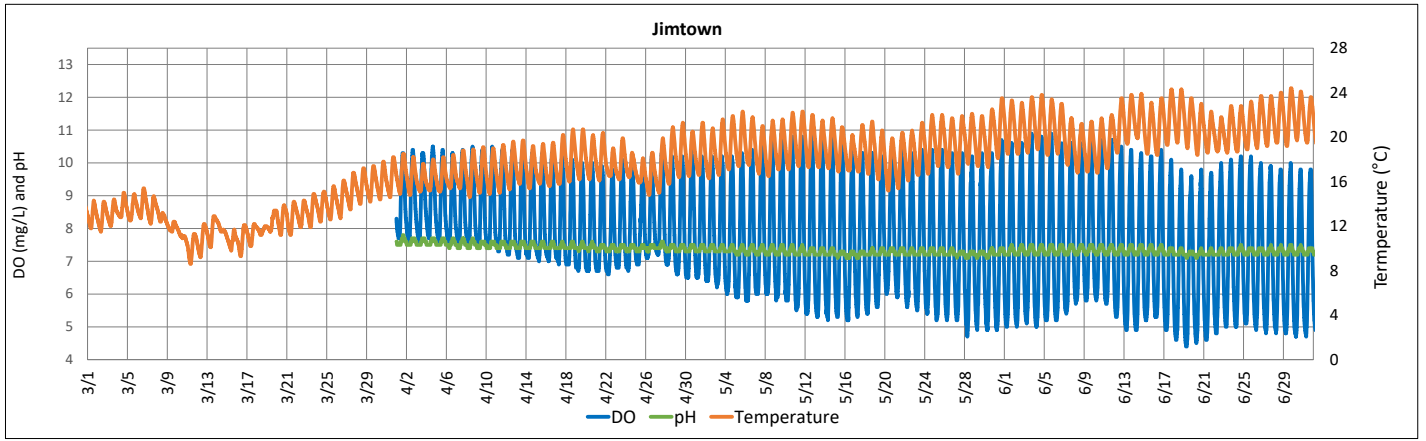


Hopland

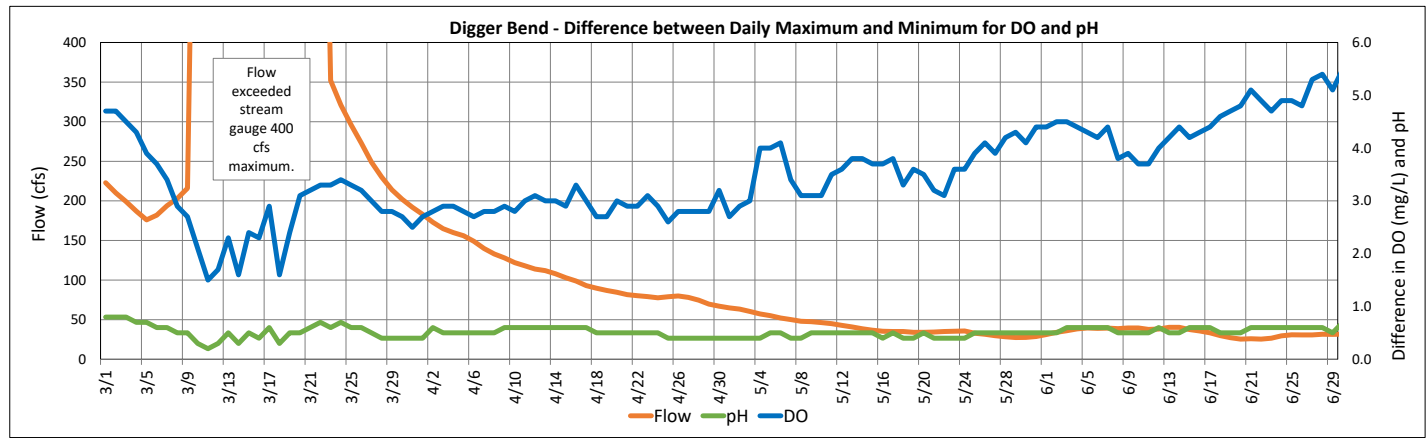
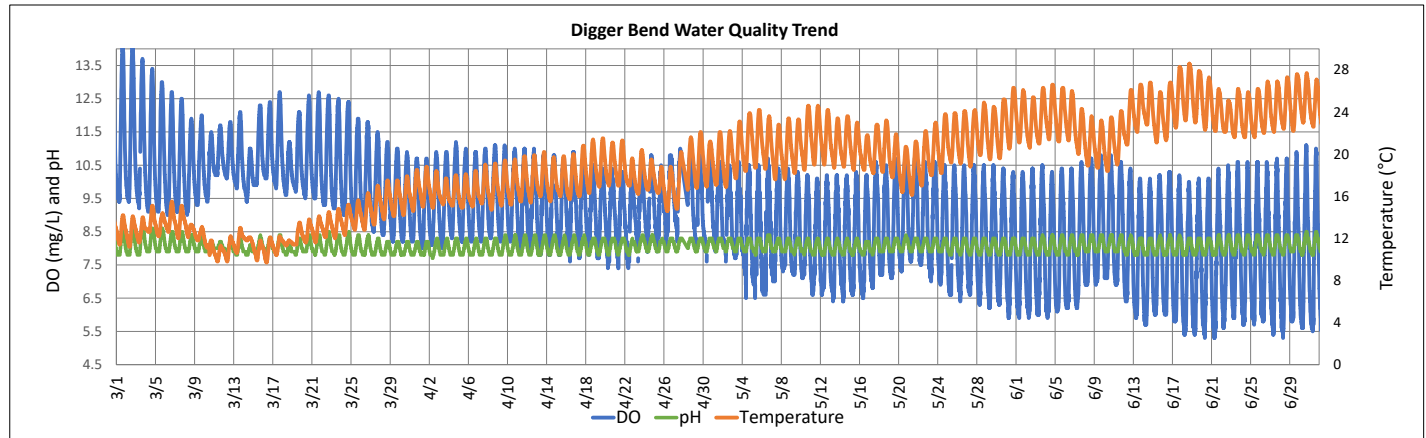


Russian River Water Quality (March 1 - July 1, 2021)
Provisional Data Subject to Revision

Jimtown Water Quality

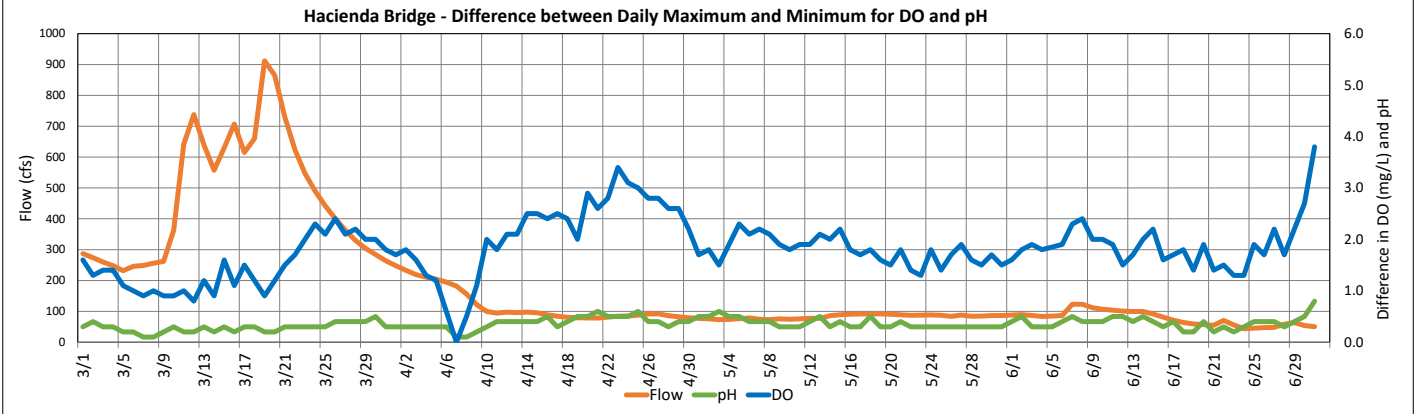
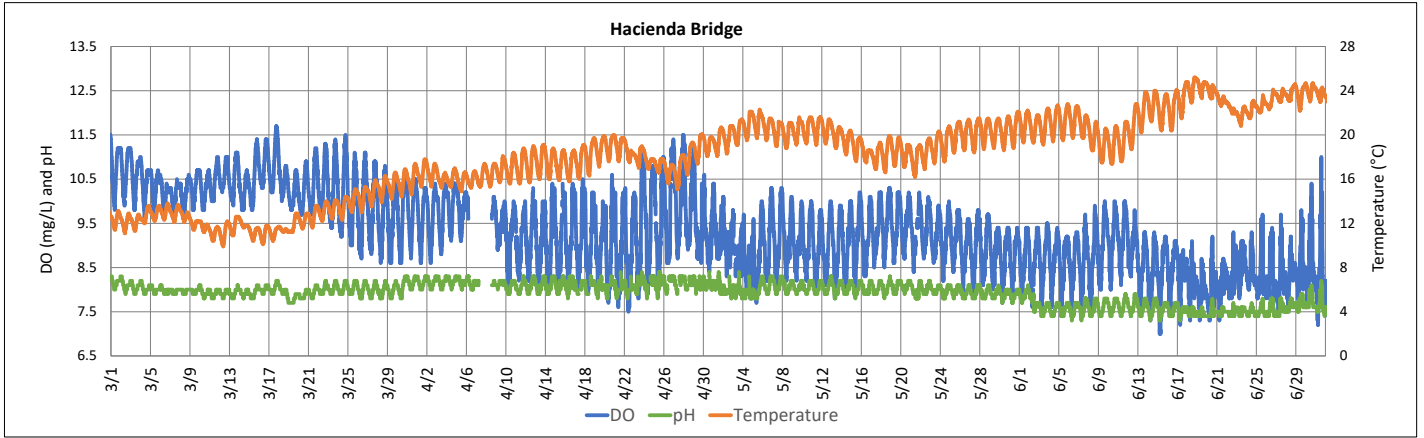


Digger Bend



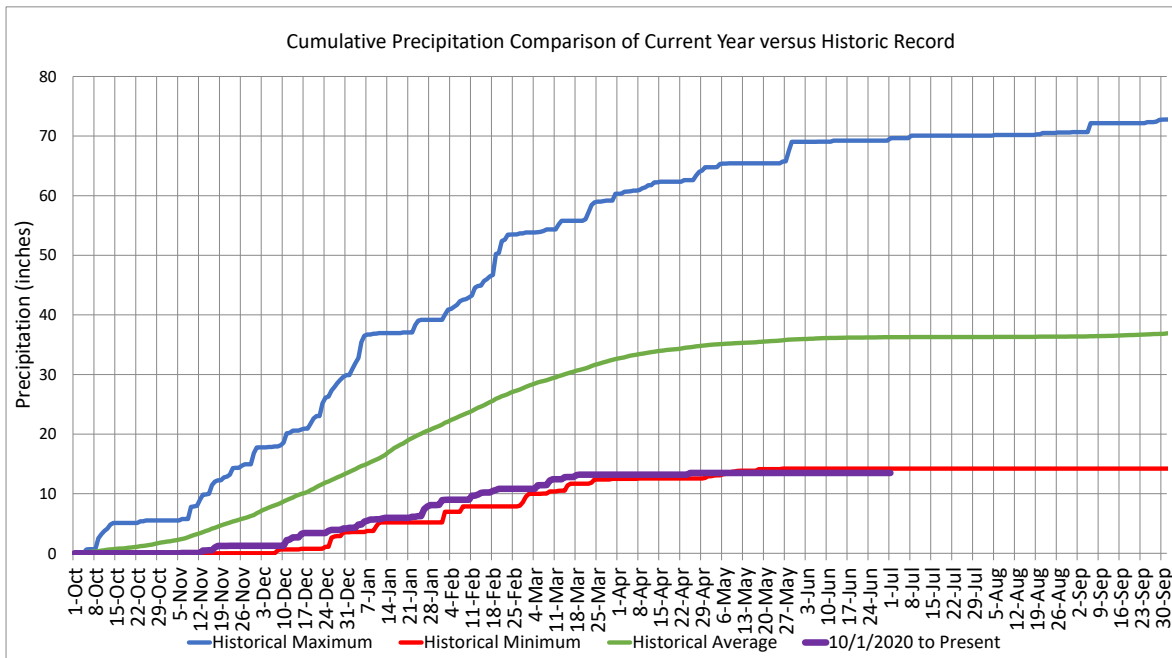
Russian River Water Quality (March 1 - July 1, 2021)
Provisional Data Subject to Revision

Hacienda Bridge Water Quality

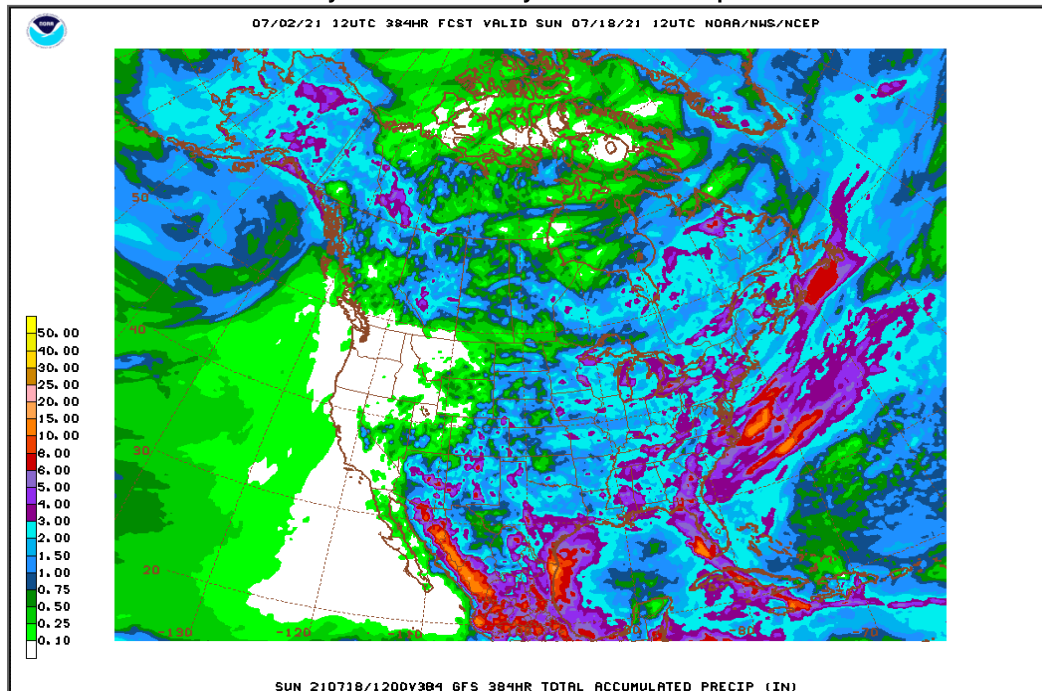


Precipitation

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



Global Forecast System Model 16-day Cumulative Precipitation Forecast



Date Range: Jul 2 - Jul 17, 2021
Forecasted Cumulative (inches): **0.0**

Lake Mendocino Water Accounting Weekly Report (Term 11 Feb 2021 TUCO)

Report Date: 7/2/2021

Units are cfs unless noted otherwise

	6/25/2021	6/26/2021	6/27/2021	6/28/2021	6/29/2021	6/30/2021	7/1/2021
I. Upper East Fork Reach							
Potter Valley Project							
Tunnel Diversion	43.0	43.0	43.0	34.0	30.0	31.0	30.0
PVID Requested Delivery	38.0	38.0	38.0	29.9	25.0	25.0	25.0
PVID Canals Actual Delivery	24.4	24.6	20.8	12.4	10.2	6.3	6.3
East Fork Release	18.6	18.4	22.2	21.6	19.8	24.7	23.8
PVID E Fork Diversions	13.6	13.4	17.2	17.5	14.8	18.7	18.8
PVID Water Use - PG&E Contract	38.0	38.0	38.0	29.9	25.0	25.0	25.0
PVID Water Use - License 5264	0.0	0.0	0.0	0.0	0.0	0.0	0.0
East Fork Downstream of PVID	5.0	5.0	5.0	4.1	5.0	6.0	5.0
PVID Canal Net Return Flow (assumed)	12.9	13.0	8.2	11.9	10.3	8.5	9.2
East Fork / Potter Valley Reach Analysis							
USGS E Fork @ Calpella	17.9	18.0	13.2	16.1	15.3	14.5	14.2
Net Reach Loss(-)/Gain(+)	-25.1	-25.0	-29.8	-17.9	-14.7	-16.5	-15.8
Unimpaired Natural Flow @ Calpella (est.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non-PVID East Fork Net Reach Losses (est.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Natural Flow	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Import (neg. value is return flow)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
II. Lake Mendocino							
Reservoir Operations							
Calculated Inflow (ac-ft)	43.7	47.4	23.0	35.8	22.9	24.5	23.6
(cfs)	22	24	12	18	12	12	12
Natural Flow	0	0	0	0	0	0	0
Import	22	24	12	18	12	12	12
Storage Change (ac-ft)	-146.0	-145.0	-169.0	-155.0	-167.0	-166.0	-164.0
(cfs)	-74	-73	-85	-78	-84	-84	-83
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)	23.6	25.8	25.7	24.1	23.3	23.9	24.2
RVCWD Diversion (ac-ft) (assum.)	0	0	0	0	0	0	0
CVD Release Gage	84	84	84	84	84	84	82
Storage (Project Water)	74	73	84	78	84	84	82
Natural Flow	0	0	0	0	0	0	0
Import Water	10	11	0	6	0	0	0
East Fork Min Instream Flow Requirement	25	25	25	25	25	25	25
Compliance Gage		<i>Rvr mi.</i>					
CVD Release	84	84	84	84	84	84	82
CVD Project Water Release to Meet Min Flow Requirement							
Total Pass-through Water	10	11	0	6	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	30	30	30	33	31	31	31
Controlling Gage	Healdsburg	Healdsburg	Healdsburg	Healdsburg	Digger Bend	Healdsburg	Healdsburg
All Compliance Gages							
		<i>Rvr mi.</i>					
Forks (CVD + USGS 11461000)	99.0	84	84	84	84	84	82
Talmage (USGS 11462080)	96.1	70	70	70	69	70	67
Hopland (USGS 11462500)	84.8	64	66	68	67	63	59
Cloverdale (USGS 11463000)	70.9	62	63	64	66	64	61
Geyserville (USGS 11463500)	54.4	46	46	47	49	49	47
Jimtown (USGS 11463682)	48.5	37	37	38	38	37	36
Digger Bend (USGS 11463980)	38.2	35	35	35	37	31	32
Healdsburg (USGS 11464000)	35.6	30	30	30	33	32	31
Net Reach Loss(-)/Gain(+)							
Forks - Talmage	-9	-10	-10	-11	-13	-14	-16
Talmage - Hopland	-10	-8	-7	-6	-8	-10	-10
Hopland - Cloverdale	-0	-1	-2	-1	-2	-0	+0
Cloverdale - Jimtown	-26	-26	-26	-27	-29	-27	-26
Jimtown - Digger Bend	-6	-5	-5	-6	-6	-5	-4
Digger Bend - Healdsburg	+0	-0	+0	+0	-0	-1	-0
CVD Project Water Release to Meet Min Flow Requirement							
Net Reach Loss(-)/Gain(+) to Controlling Gage	-51	-51	-50	-52	-53	-56	-56
Storage (Project Water)	+51	+51	+50	+52	+53	+56	+56
Pass-through Water (Natural + Import)	+0	+0	+0	+0	+0	+0	+0
Total Pass-through Water	10	11	0	6	0	0	0
Project Water Release Required	Yes	Yes	Yes	Yes	Yes	Yes	Yes

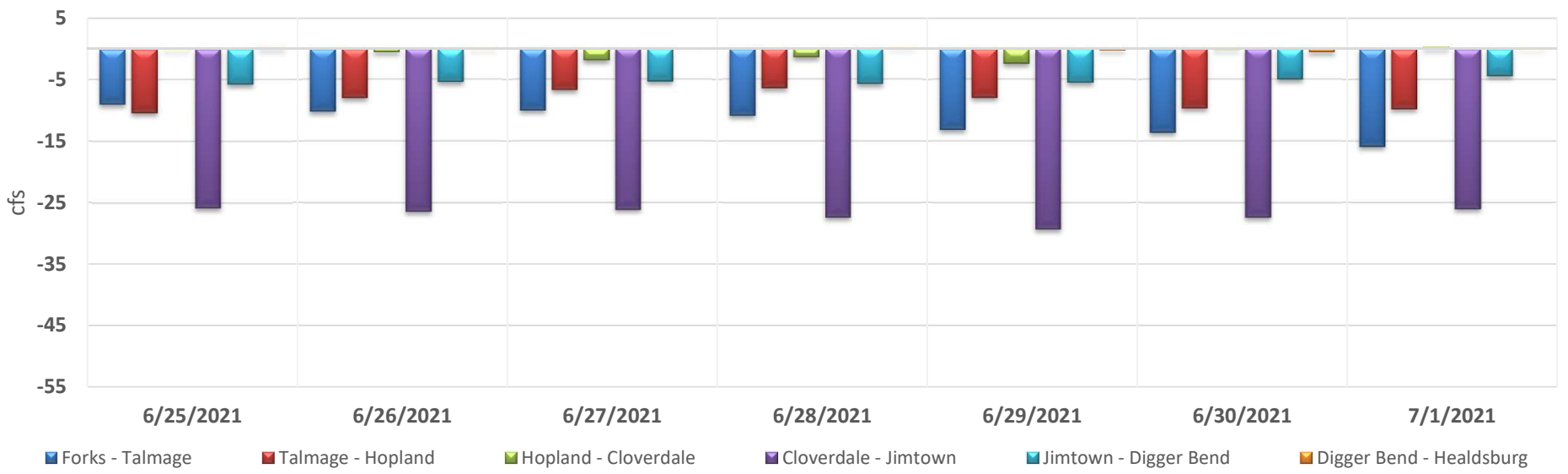
Notes:

- 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.

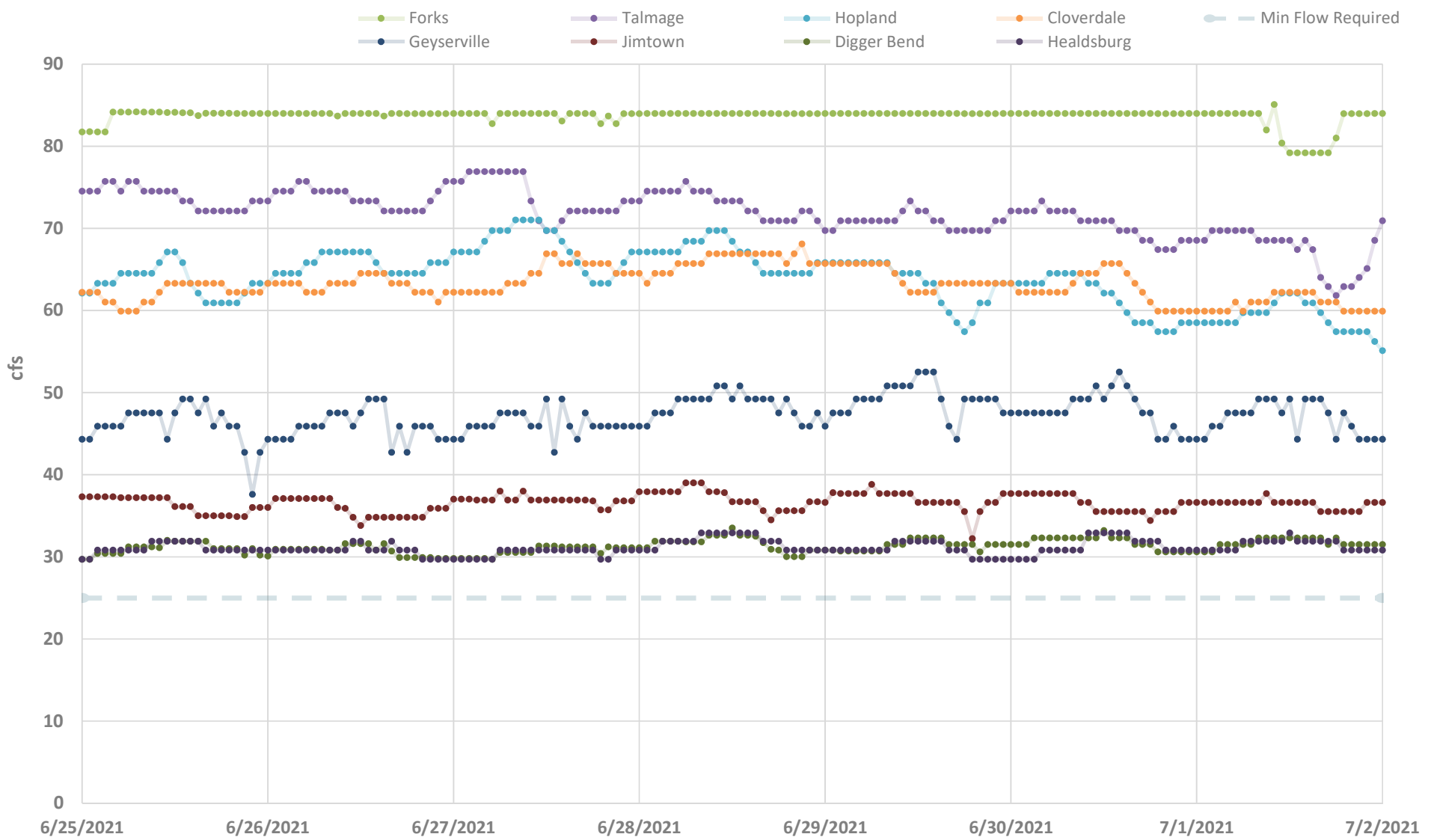
Lake Mendocino Water Accounting Weekly Report (Term 11 Feb 2021 TUCO)

Report Date: 7/2/2021

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



UPPER RUSSIAN RIVER STREAM FLOWS



MAP OF UPPER RUSSIAN RIVER and STREAM GAGES

