



State Water Resources Control Board
 Temporary Urgency Change Orders (12/27/2023 & 6/6/2024)
 Russian River Hydrologic & Water Quality Report
 May 31, 2024 - June 6, 2024

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

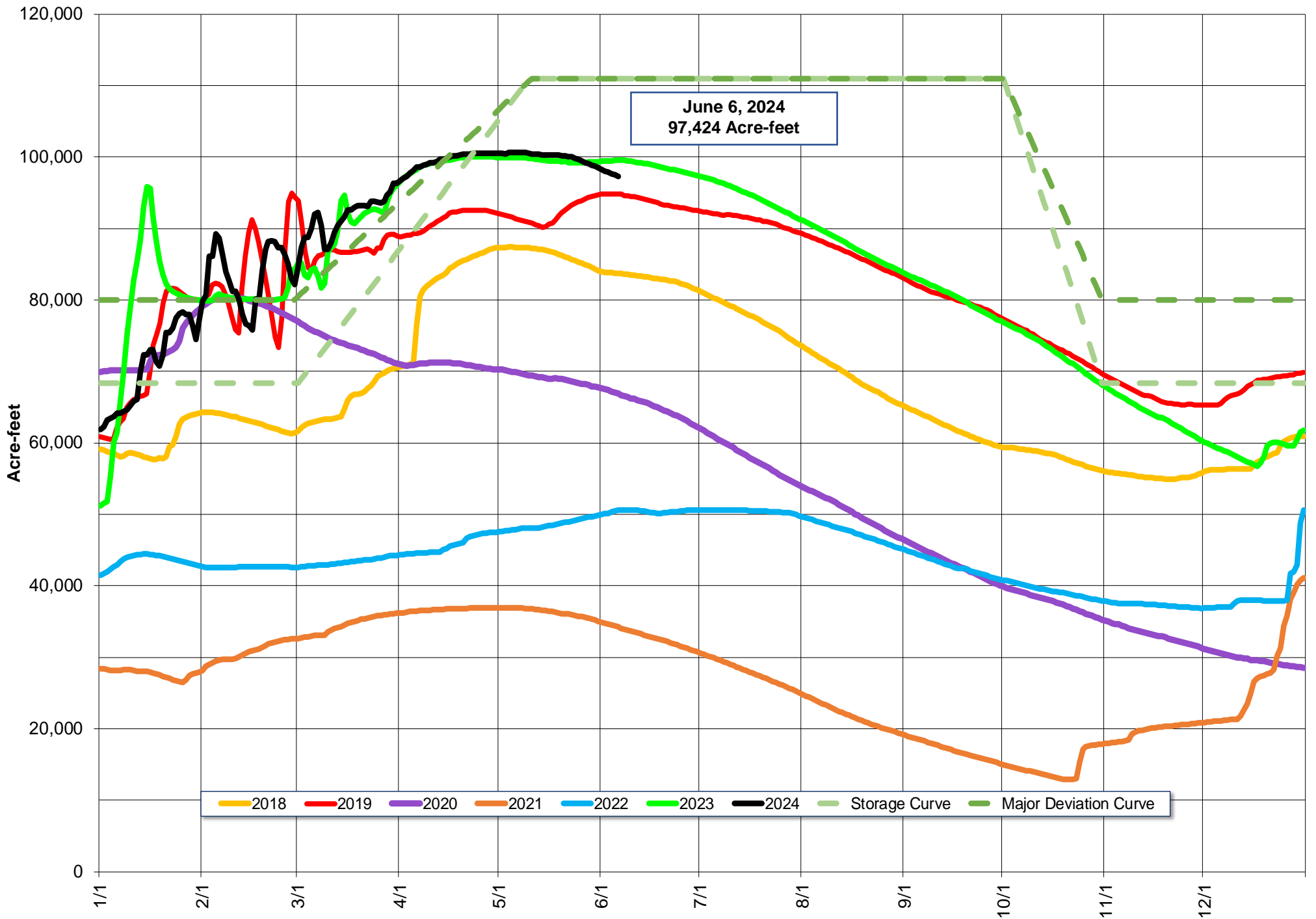
Instream Flow Requirements as of June 6, 2024

Basis	Reach	Instantaneous (cfs)	5-day Average (cfs)
Modified Per Order: Normal Condition	Upper Russian River	110	125
D-1610: Normal Condition	Dry Creek	80	-
Modified Per Order: Normal Condition	Lower Russian River	60	70

Upper and Lower Russian River are based on criteria as established in the Order issued 6/6/2024.

Lake Mendocino

Lake Mendocino Storage 2018 - 2024 and Storage Curve



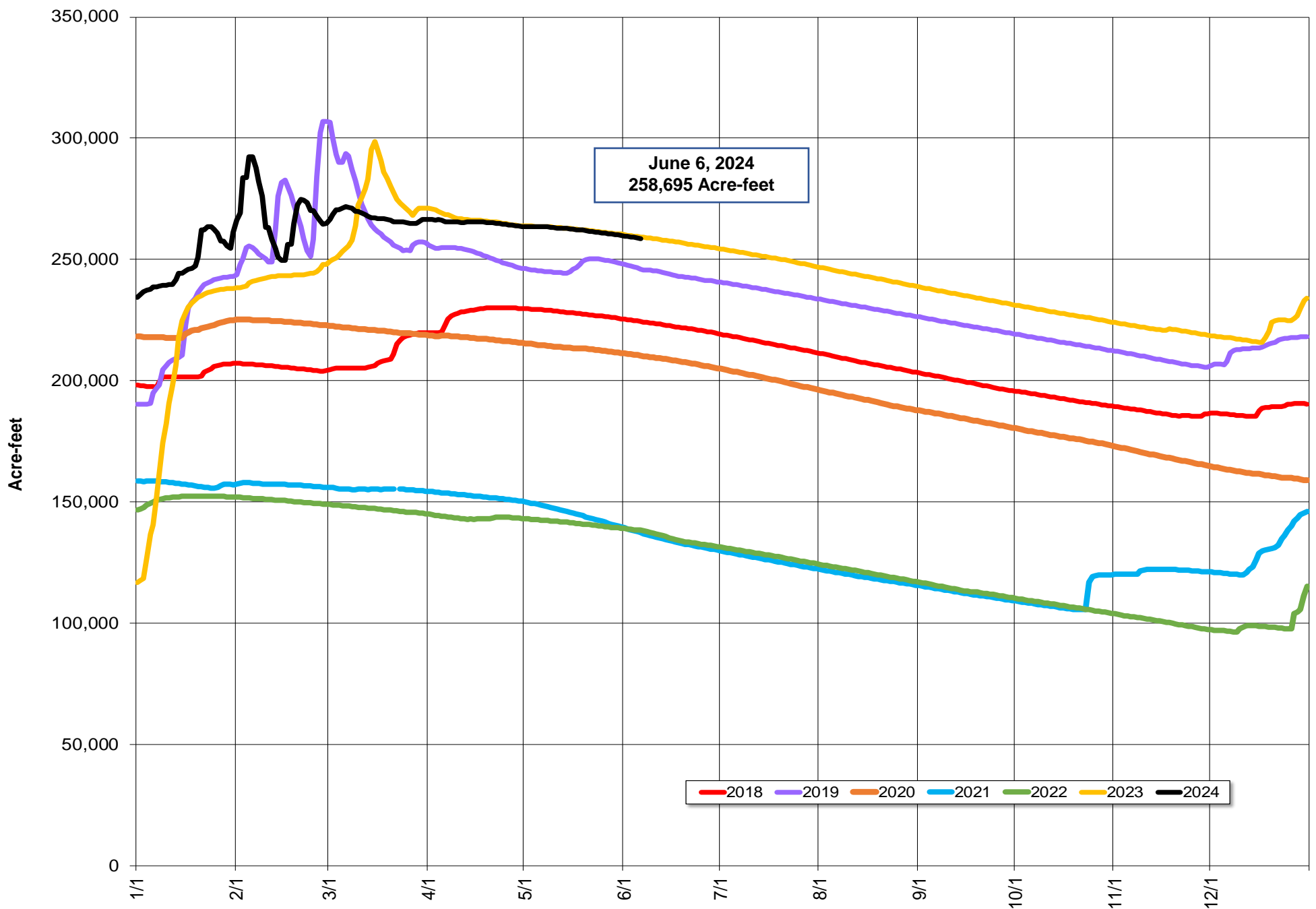
Storage (acre-feet)	June 6, 2024	97,242	
Change in Storage (acre-feet)	Last 30 days	-3,386	-113
	Last 7 days	-1,263	-180
Daily Inflow (cfs)	Last 7 days	Min	64
		Max	118
		Mean	97
Release (cfs)	Last 7 days	Min	144
		Max	187
		Mean	178

Lake Sonoma



Todd Schram, February 10, 2024

Lake Sonoma Storage 2018-2024



Storage (acre-feet)	June 6, 2024	258,695	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
	Last 7 days	-4,875	-163
Daily Inflow (cfs)	Last 7 days	Min	0
		Max	40
		Mean	25
Release (cfs)	Last 7 days	Min	97
		Max	98
		Mean	97

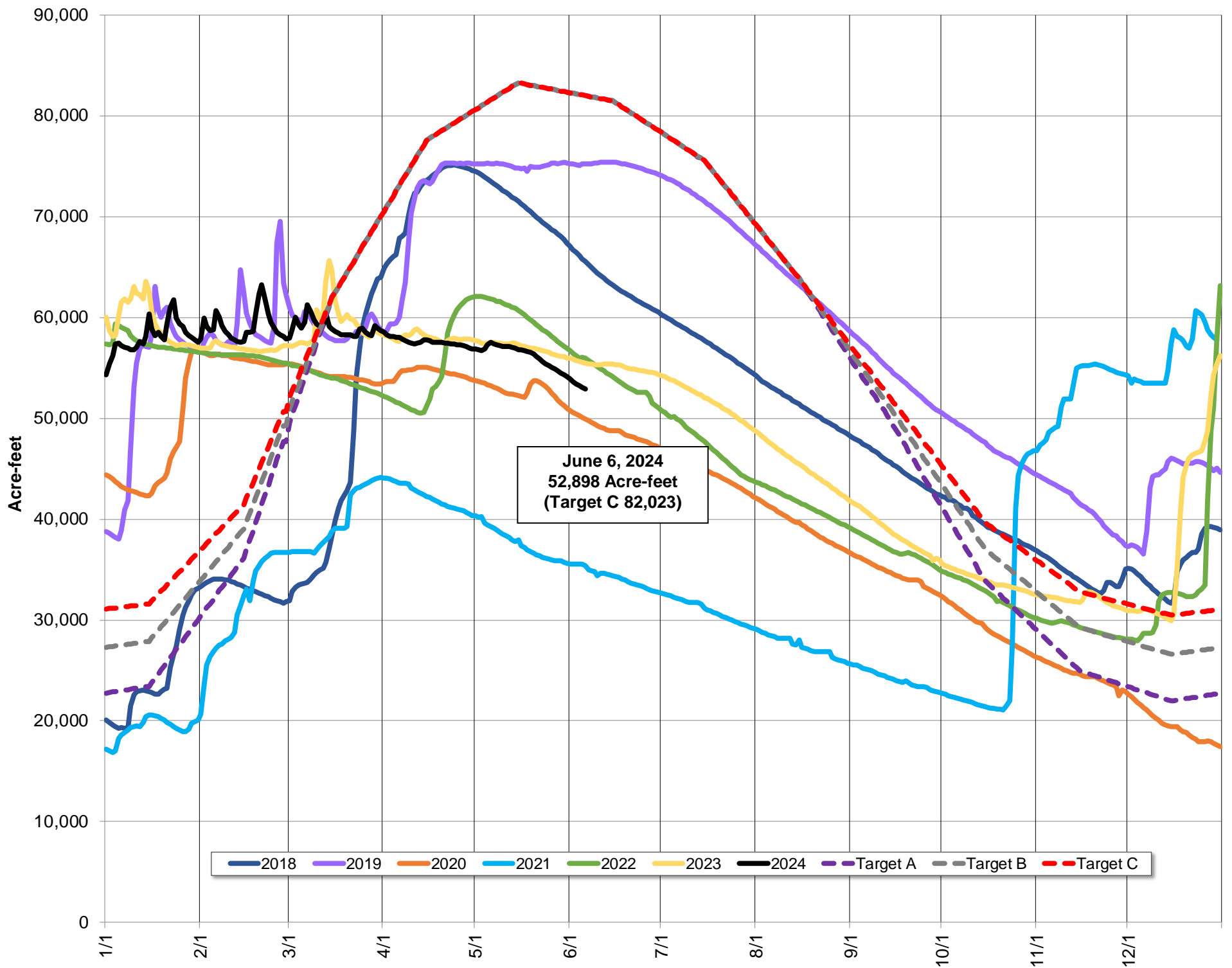
Potter Valley Project

PVP Diversion (cfs)	June 6, 2024	99
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2023 - June 6, 2024	481,512	1,926
	Last 7 days	1,859	266

*Inflow calculation based on criteria established in D1610

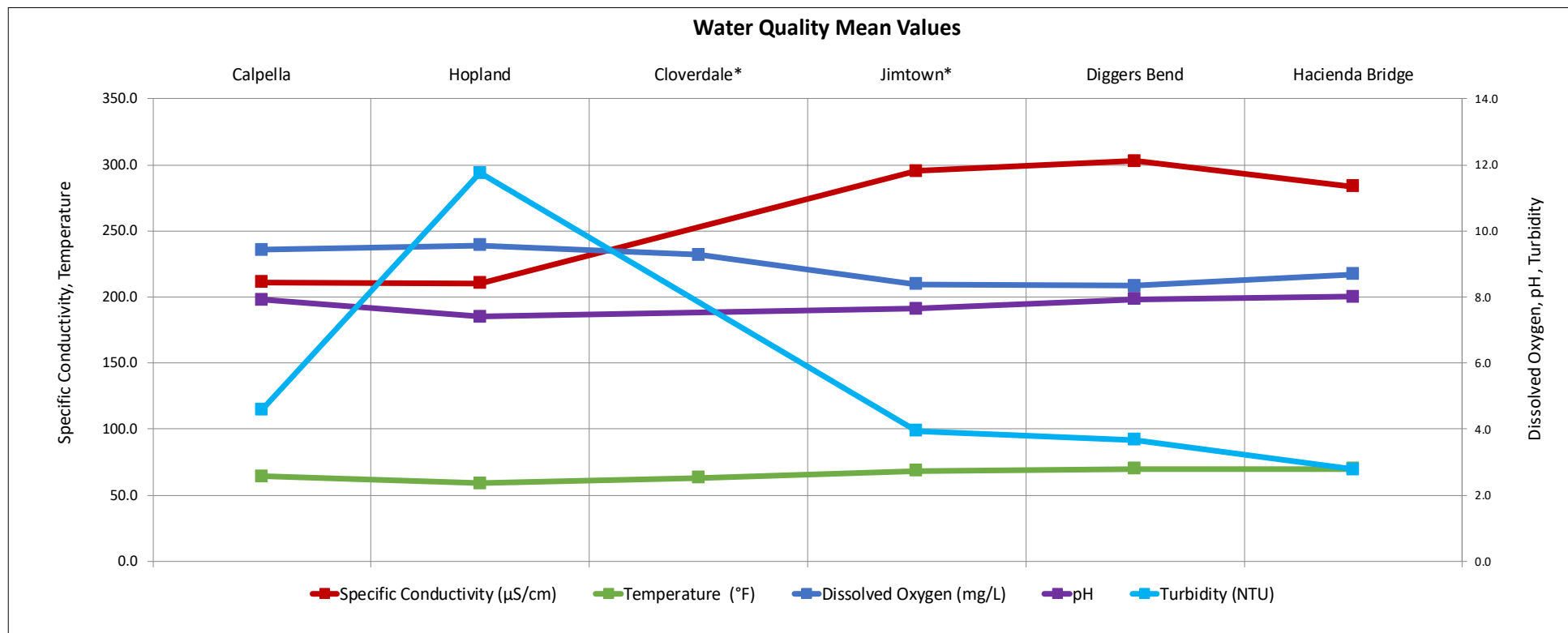
Lake Pillsbury Storage 2018 - 2024 and Target Storage Scenarios



Russian River Flows (May 31, 2024 - June 6, 2024)

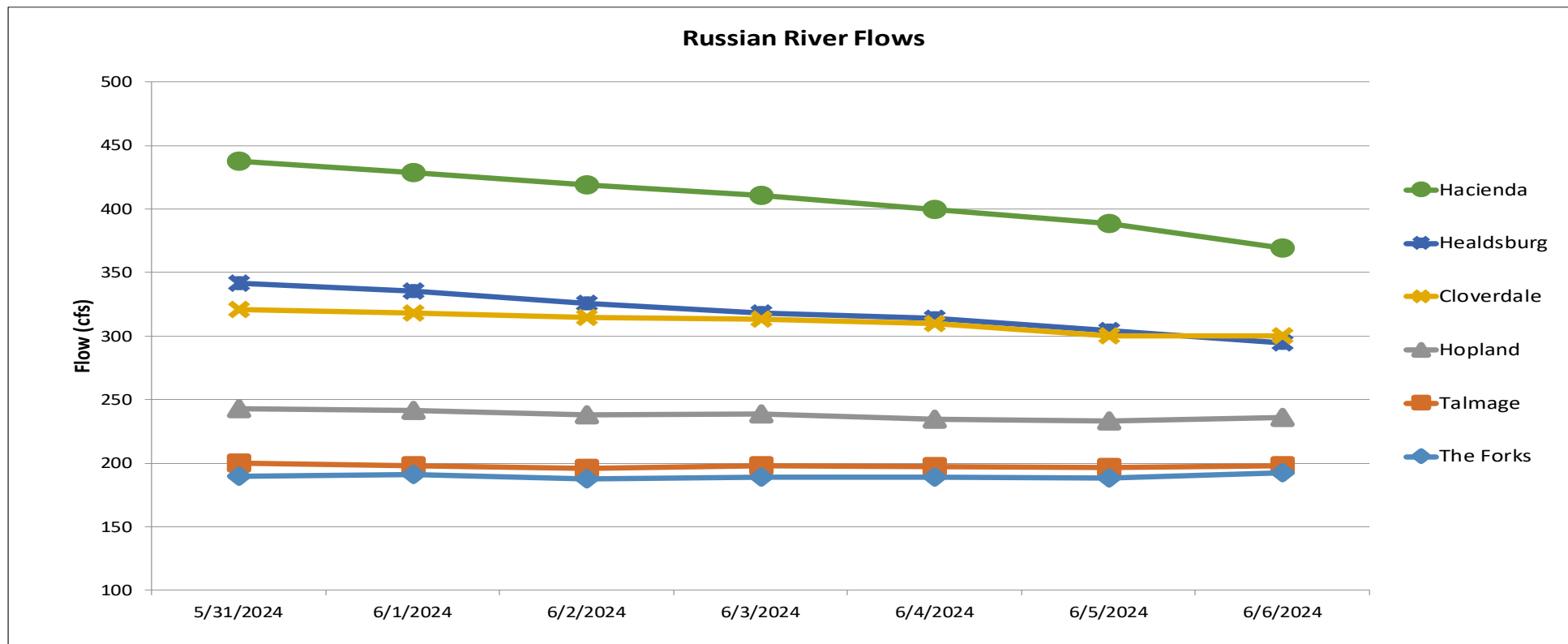
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	60.8	55.9	59.7	64.4	66.2		66.0	
	Max	69.6	61.5	67.6	73.6	75.6		74.7	
	Mean	64.3	59.0	63.1	68.4	70.1		70.1	
Specific Conductivity (µS/cm)	Min	206.0	208.0		293.0	300.0		280.0	
	Max	216.0	213.0		297.0	306.0		286.0	
	Mean	211.1	210.3		295.2	303.0		283.7	
Dissolved Oxygen (mg/L)	Min	8.7	8.9	8.3	6.8	6.0		7.4	
	Max	10.1	10.4	10.6	10.4	10.9		10.0	
	Mean	9.4	9.6	9.3	8.4	8.3		8.7	
Dissolved Oxygen (% Saturation)	Min	95.2	88.5	87.5	74.9	67.4		81.2	
	Max	106.7	104.8	112.2	116.2	125.4		115.7	
	Mean	99.5	94.9	96.5	92.8	93.9		97.8	
pH	Min	7.8	7.3		7.5	7.6		7.8	
	Max	8.1	7.5		7.9	8.4		8.2	
	Mean	7.9	7.4		7.6	7.9		8.0	
Turbidity (NTU)	Min	3.1	10.5		3.0	2.3		1.9	
	Max	6.4	13.5		5.8	5.1		4.3	
	Mean	4.6	11.8		4.0	3.7		2.8	

*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	May 31, 2024	Jun 1, 2024	Jun 2, 2024	Jun 3, 2024	Jun 4, 2024	Jun 5, 2024	Jun 6, 2024
The Forks*	190	191	187	189	189	188	193
Talmage USGS 11462080	200	198	196	198	197	196	198
Hopland USGS 11462500	243	242	238	239	234	233	236
Cloverdale USGS 11463000	321	318	315	313	310	300	300
Healdsburg USGS 11464000	342	335	325	318	314	304	295
Hacienda USGS 11467000	438	429	419	410	399	389	369

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

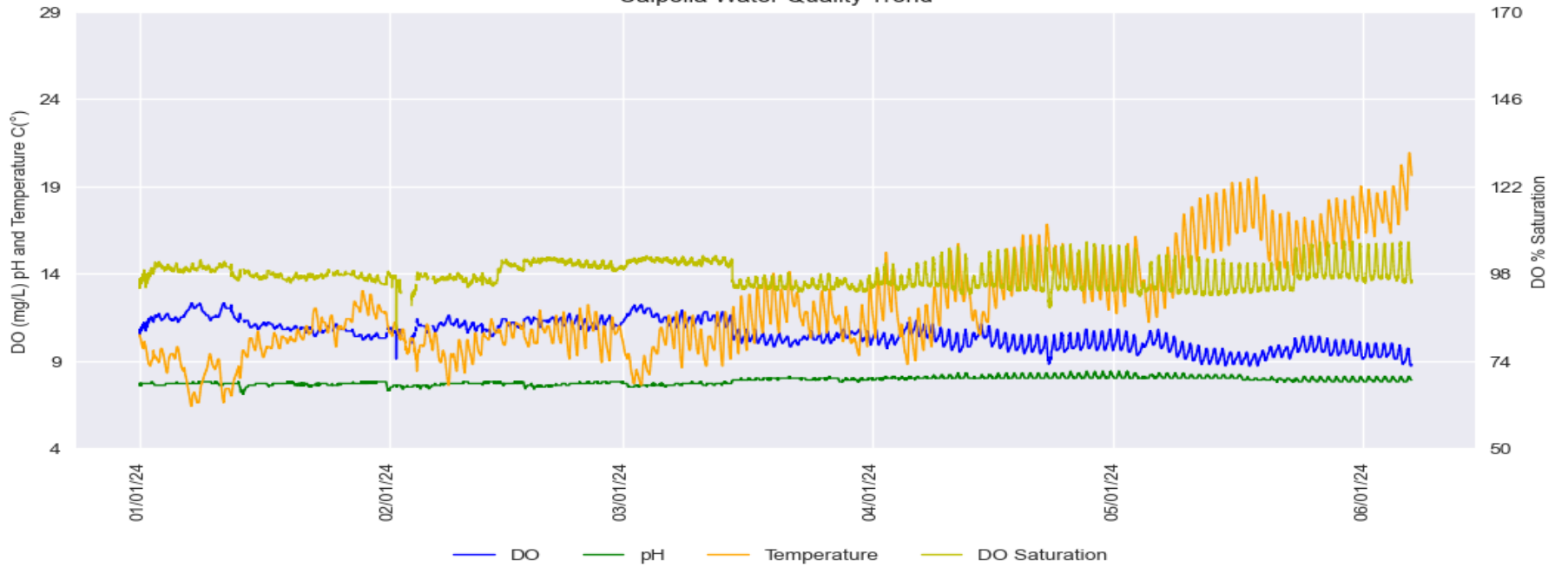


Russian River Water Quality January 1, 2024 – June 6, 2024

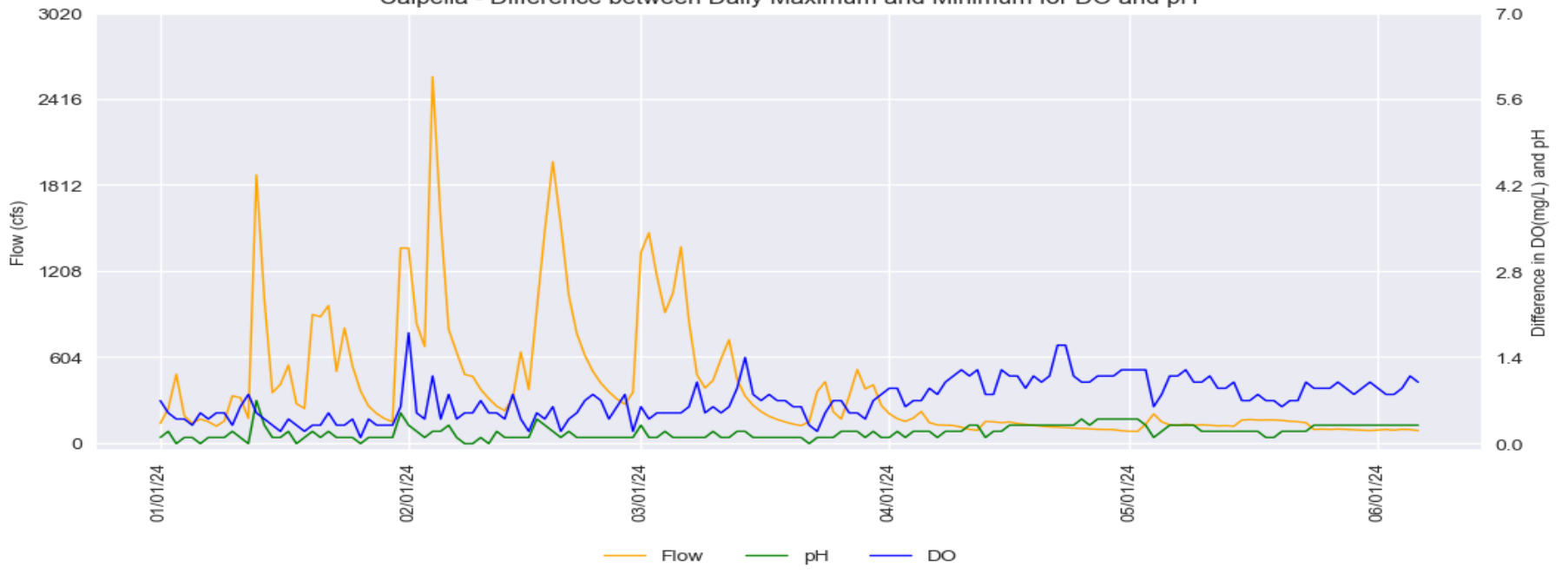
Provisional Data Subject to Revision

Calpella

Calpella Water Quality Trend

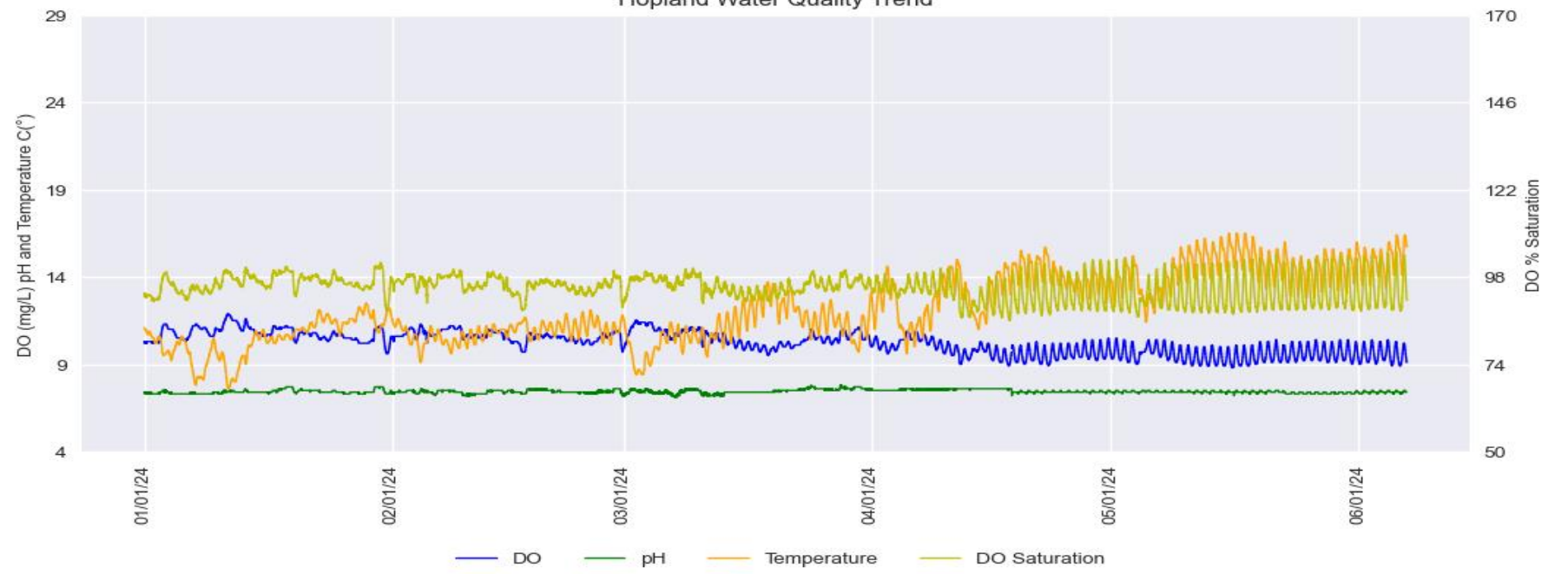


Calpella - Difference between Daily Maximum and Minimum for DO and pH

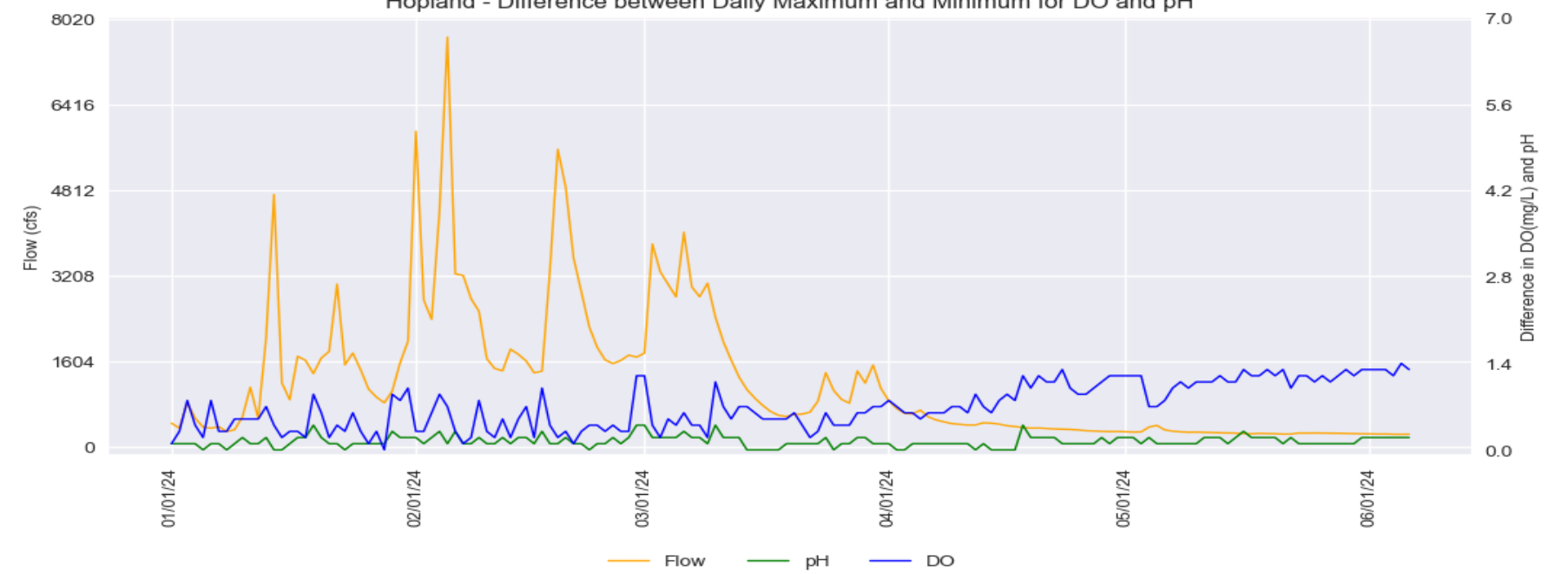


Hopland

Hopland Water Quality Trend



Hopland - Difference between Daily Maximum and Minimum for DO and pH

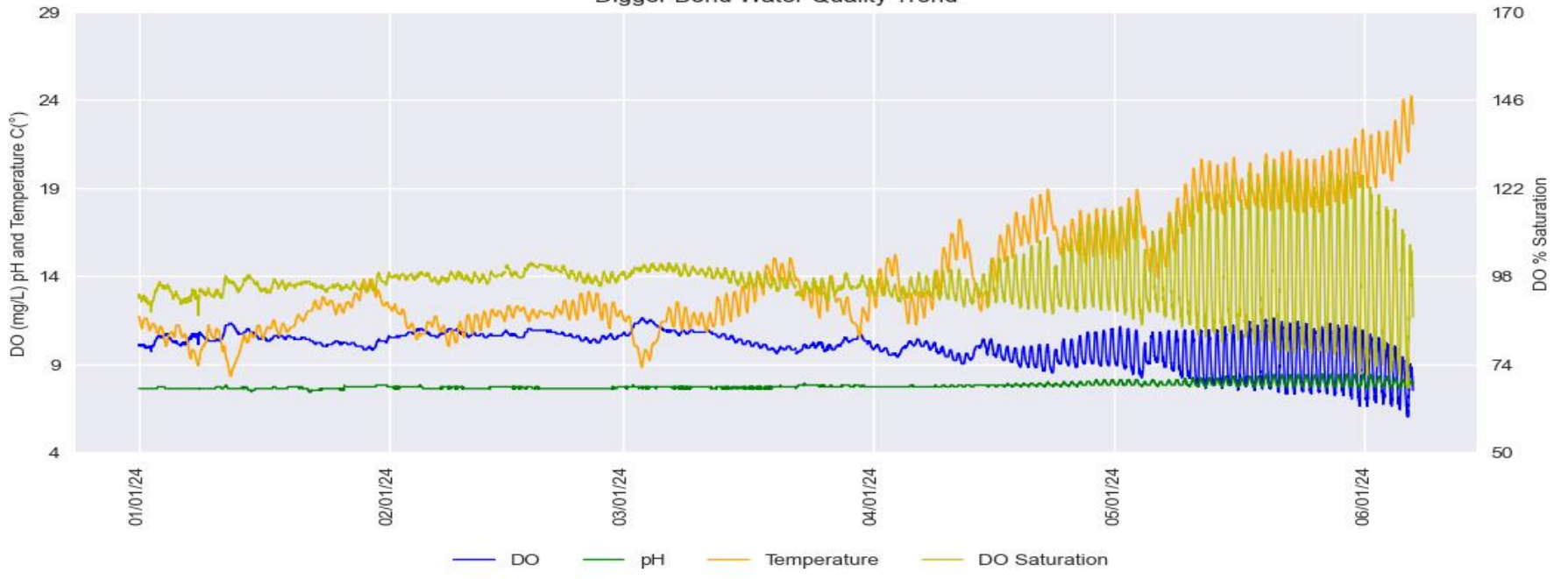


Russian River Water Quality January 1, 2024 – June 6, 2024

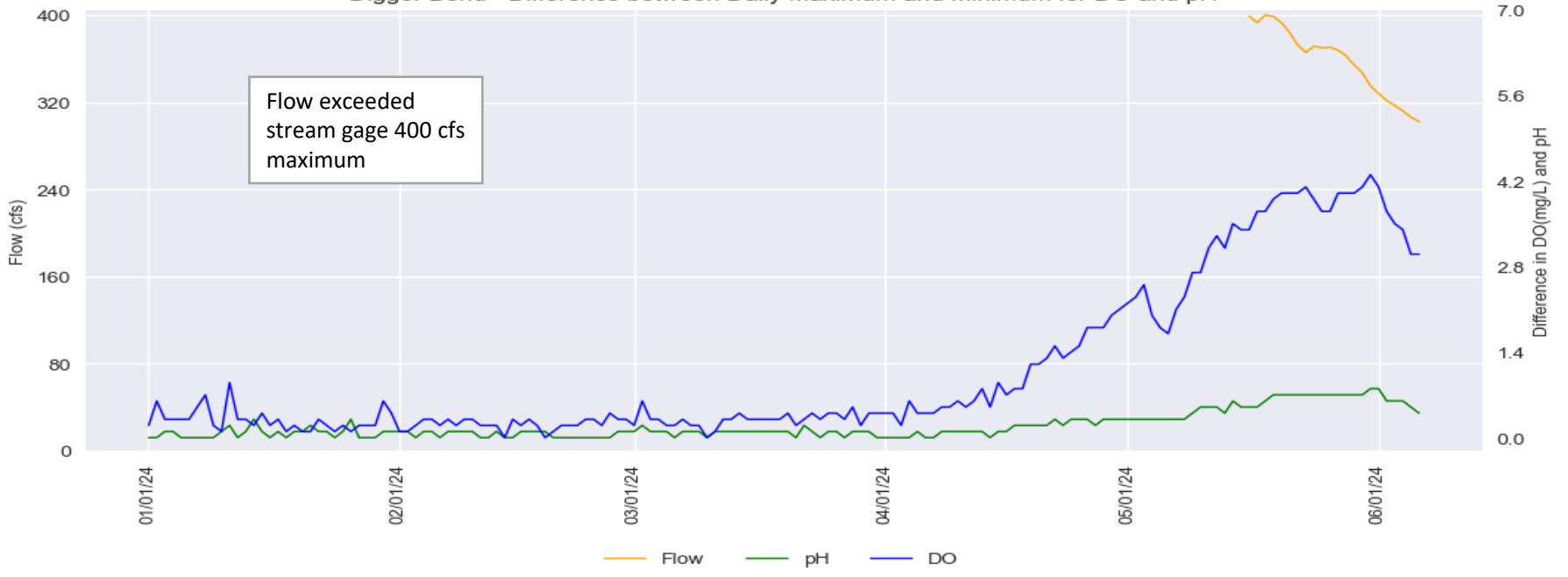
Provisional Data Subject to Revision

Digger Bend

Digger Bend Water Quality Trend

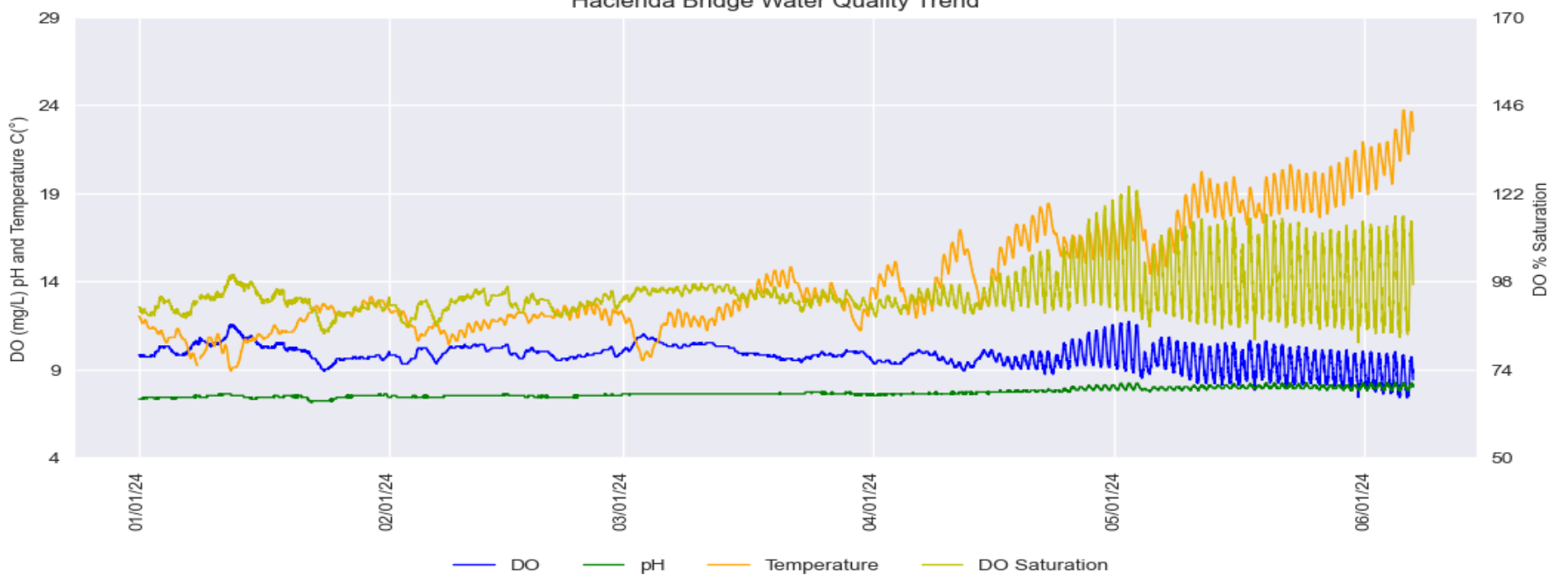


Digger Bend - Difference between Daily Maximum and Minimum for DO and pH

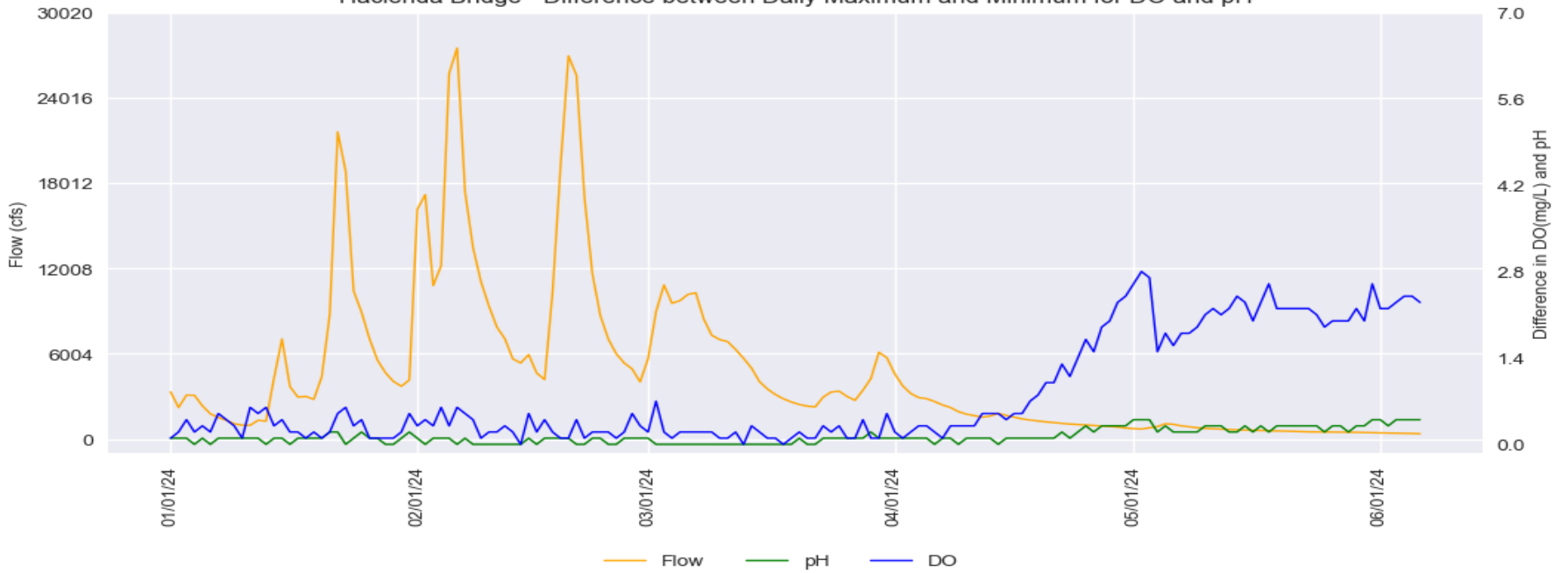


Hacienda Bridge

Hacienda Bridge Water Quality Trend



Hacienda Bridge - Difference between Daily Maximum and Minimum for DO and pH

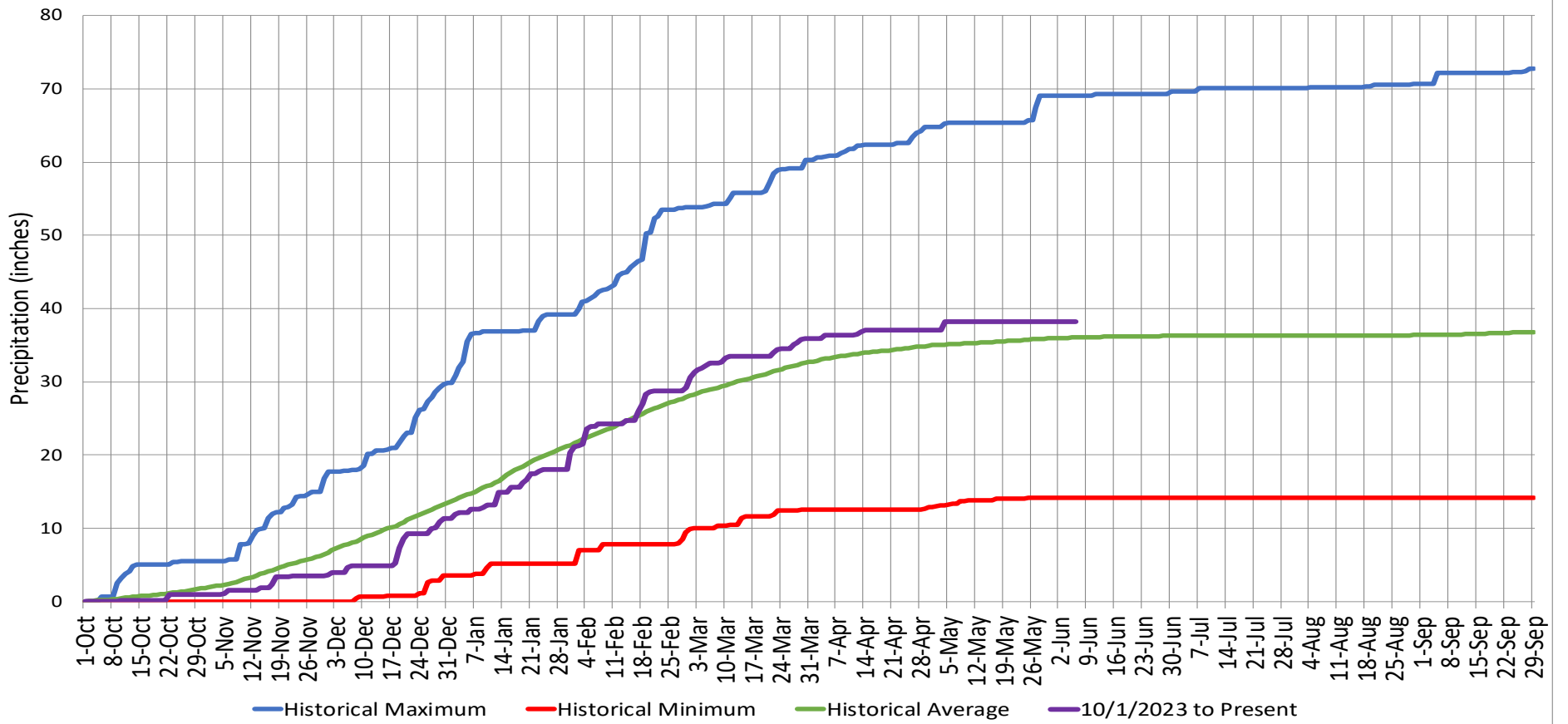


Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

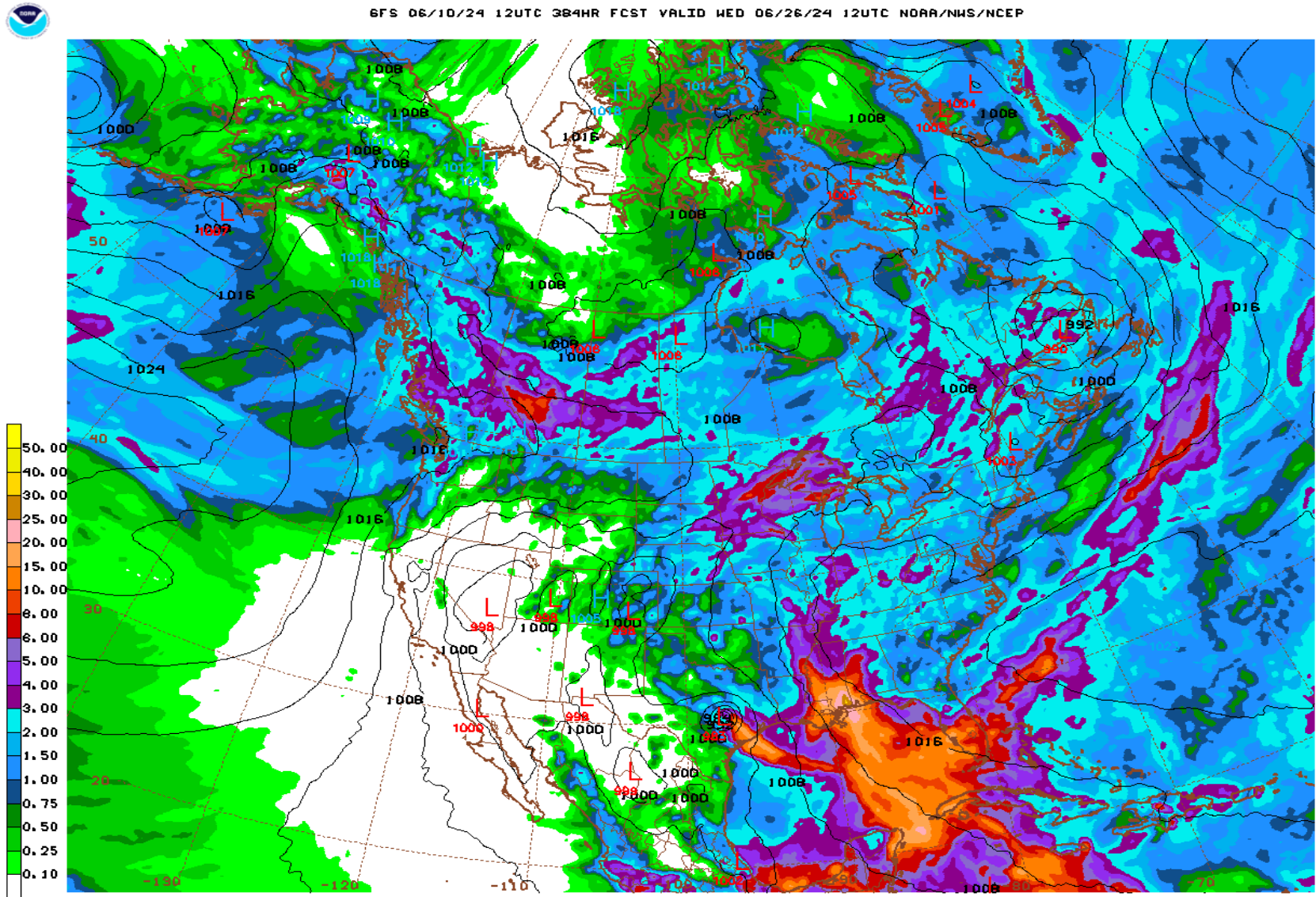
Date Range	Cumulative (inches)
Oct 1, 2023 - Jun 6, 2024	38.22
Last 7 Days*	0.00

Cumulative Precipitation Comparison of Current Year versus Historic Record



Global Forecast System Model 16-day Cumulative Precipitation Forecast

GFS 06/10/24 12UTC 384HR FCST VALID WED 06/26/24 12UTC NOAA/NWS/NCEP



GFS WED 240626/1200V384 ENSL (4MB), 384HR ACCUMULATED PRECIP (IN)

Date Range
Jun 10 - Jun 26, 2024

Forecasted Cumulative (inches)
0.00