



**State Water Resources Control Board
 Temporary Urgency Change Order (5/19/2023)
 Russian River Hydrologic Report
 September 22, 2023 - September 28, 2023**

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).

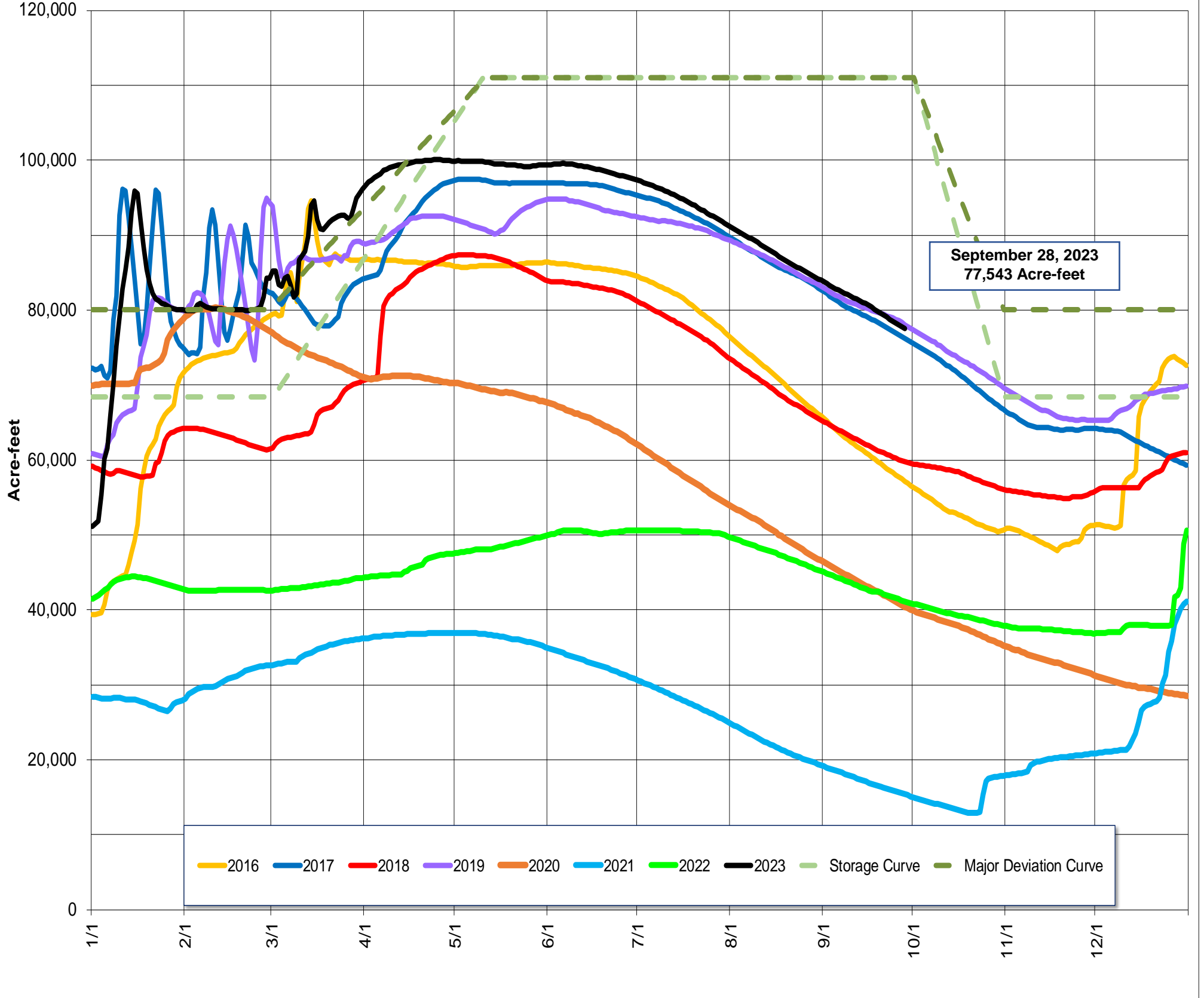
Instream Flow Requirements as of September 28, 2023

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 based on criteria as established in the Order issued 5/19/2023.

Lake Mendocino

Lake Mendocino Storage 2016 - 2023 and Storage Curve



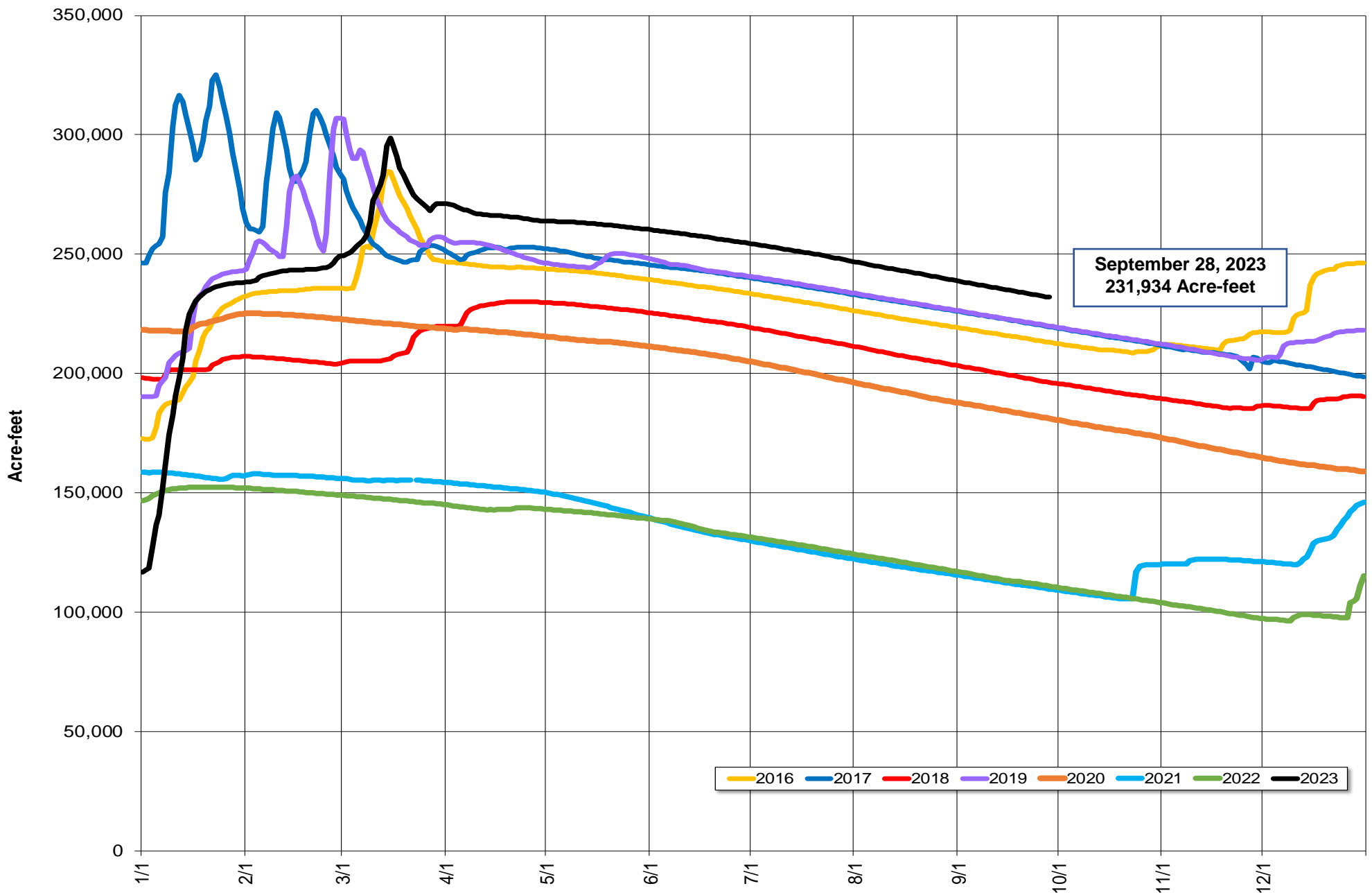
Storage (acre-feet)	September 28, 2023	77,543	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	-6,893	-230
	Last 7 days	-1,511	-216
Daily Inflow (cfs)	Last 7 days	Min	57
		Max	70
		Mean	64
Release (cfs)	Last 7 days	Min	169
		Max	189
		Mean	182

Lake Sonoma



Nathan Baskett, March 3, 2011

Lake Sonoma Storage 2016-2023



Storage (acre-feet)	September 28, 2023	231,934	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	-7,557	-252
	Last 7 days	-1,478	-211
Daily Inflow (cfs)	Last 7 days	Min	0
		Max	6
		Mean	3
Release (cfs)	Last 7 days	Min	110
		Max	111
		Mean	111

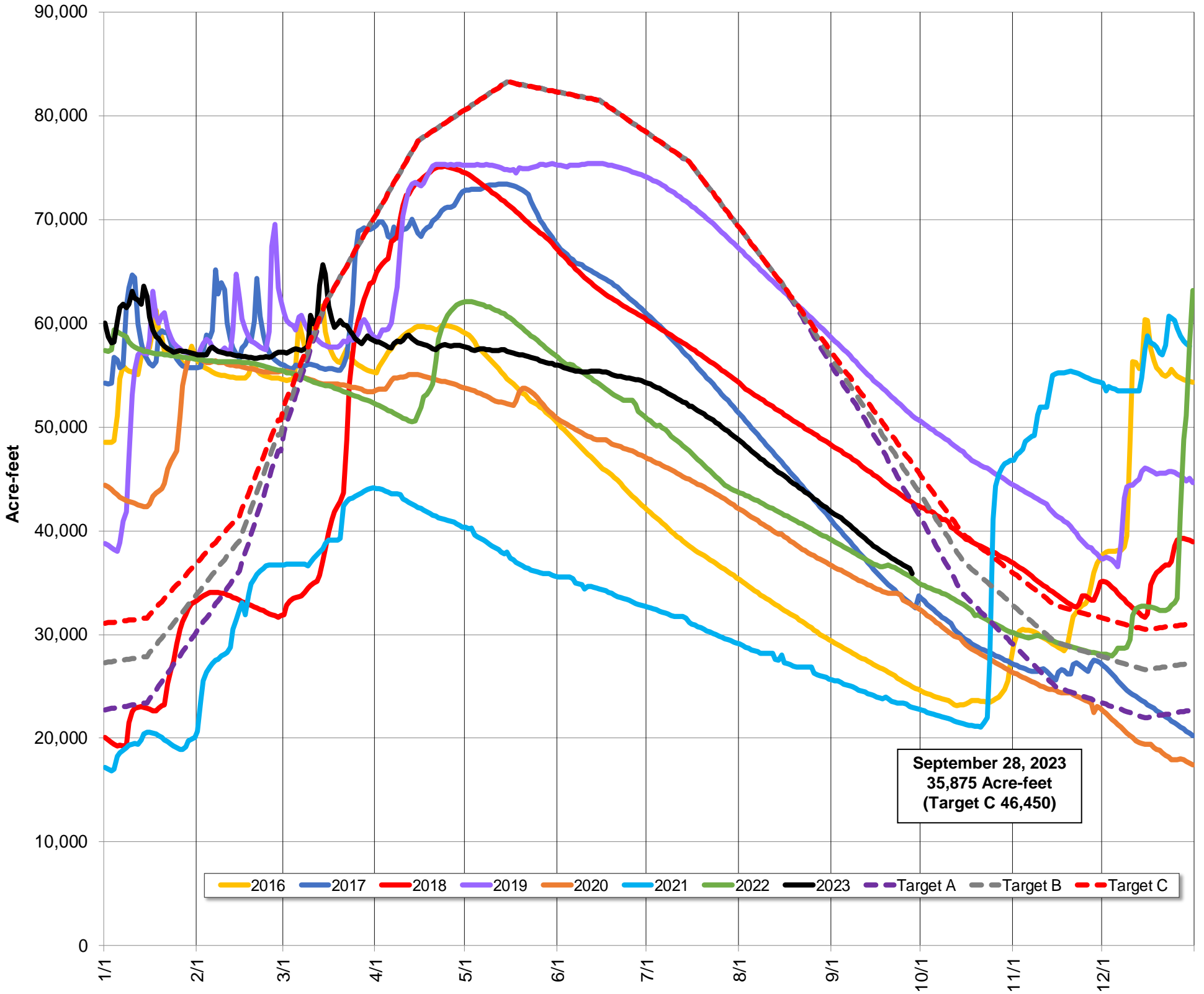
Potter Valley Project

PVP Diversion (cfs)	September 28, 2023	65
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2022 - September 28, 2023	624,938	1,722
	Last 7 days	2,389	341

*Inflow calculation based on criteria established in D1610

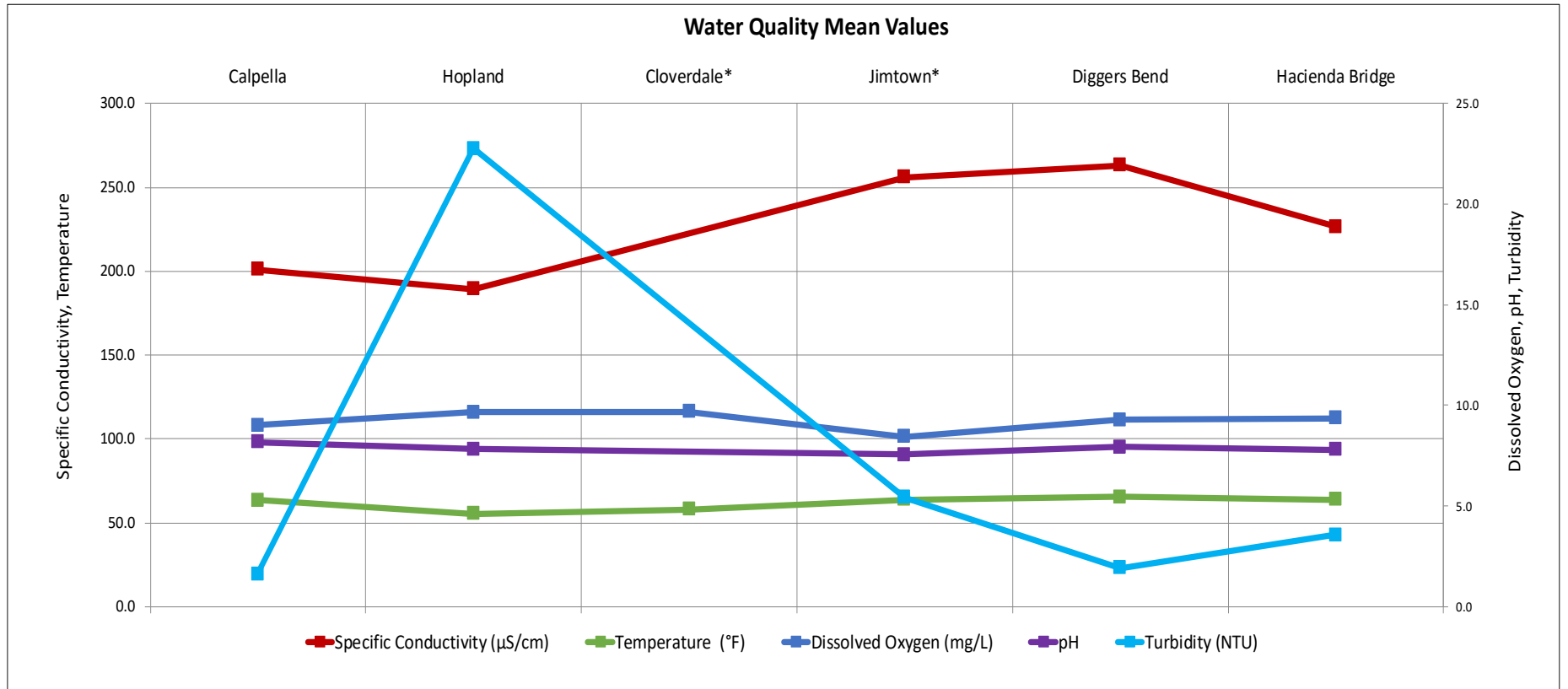
Lake Pillsbury Storage 2016 - 2023 and Target Storage Scenarios



Russian River Flows (September 22, 2023 - September 28, 2023)

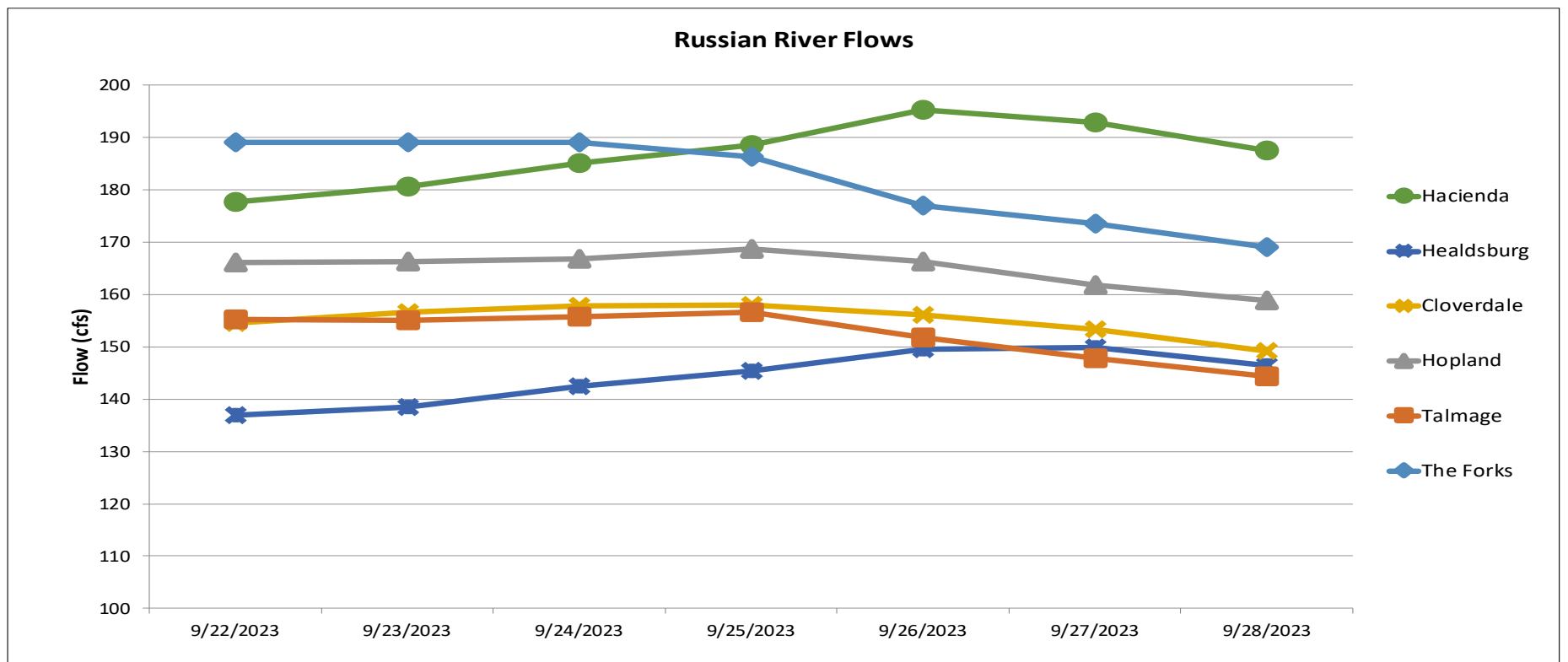
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	61.3	53.8	56.3	61.9	62.8		61.7	
	Max	65.7	57.6	60.8	67.3	68.5		66.6	
	Mean	63.4	55.4	58.0	63.9	65.3		63.8	
Specific Conductivity (µS/cm)	Min	199.0	188.0		253.0	259.0		225.0	
	Max	204.0	192.0		259.0	266.0		229.0	
	Mean	201.0	189.5		256.1	263.1		226.8	
Dissolved Oxygen (mg/L)	Min	8.6	9.3	9.2	7.4	7.2		7.9	
	Max	9.8	10.2	10.6	10.5	12.2		10.5	
	Mean	9.0	9.7	9.7	8.5	9.3		9.4	
Dissolved Oxygen (% Saturation)	Min	90.5	87.6	89.6	76.4	75.7		81.9	
	Max	103.1	98.1	105.7	114.6	134.7		113.4	
	Mean	94.1	91.6	94.8	88.9	99.1		98.4	
pH	Min	8.1	7.8		7.4	7.5		7.5	
	Max	8.4	7.9		7.9	8.6		8.0	
	Mean	8.2	7.8		7.5	7.9		7.8	
Turbidity (NTU)	Min	0.8	16.8		3.4	1.5		2.9	
	Max	3.5	31.6		6.6	2.5		5.1	
	Mean	1.6	22.8		5.4	1.9		3.6	

*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	Sep 22, 2023	Sep 23, 2023	Sep 24, 2023	Sep 25, 2023	Sep 26, 2023	Sep 27, 2023	Sep 28, 2023
The Forks*	189	189	189	186	177	174	169
Talmage USGS 11462080	155	155	156	157	152	148	144
Hopland USGS 11462500	166	166	167	169	166	162	159
Cloverdale USGS 11463000	154	157	158	158	156	153	149
Healdsburg USGS 11464000	137	139	142	145	149	150	146
Hacienda USGS 11467000	178	181	185	189	195	193	188

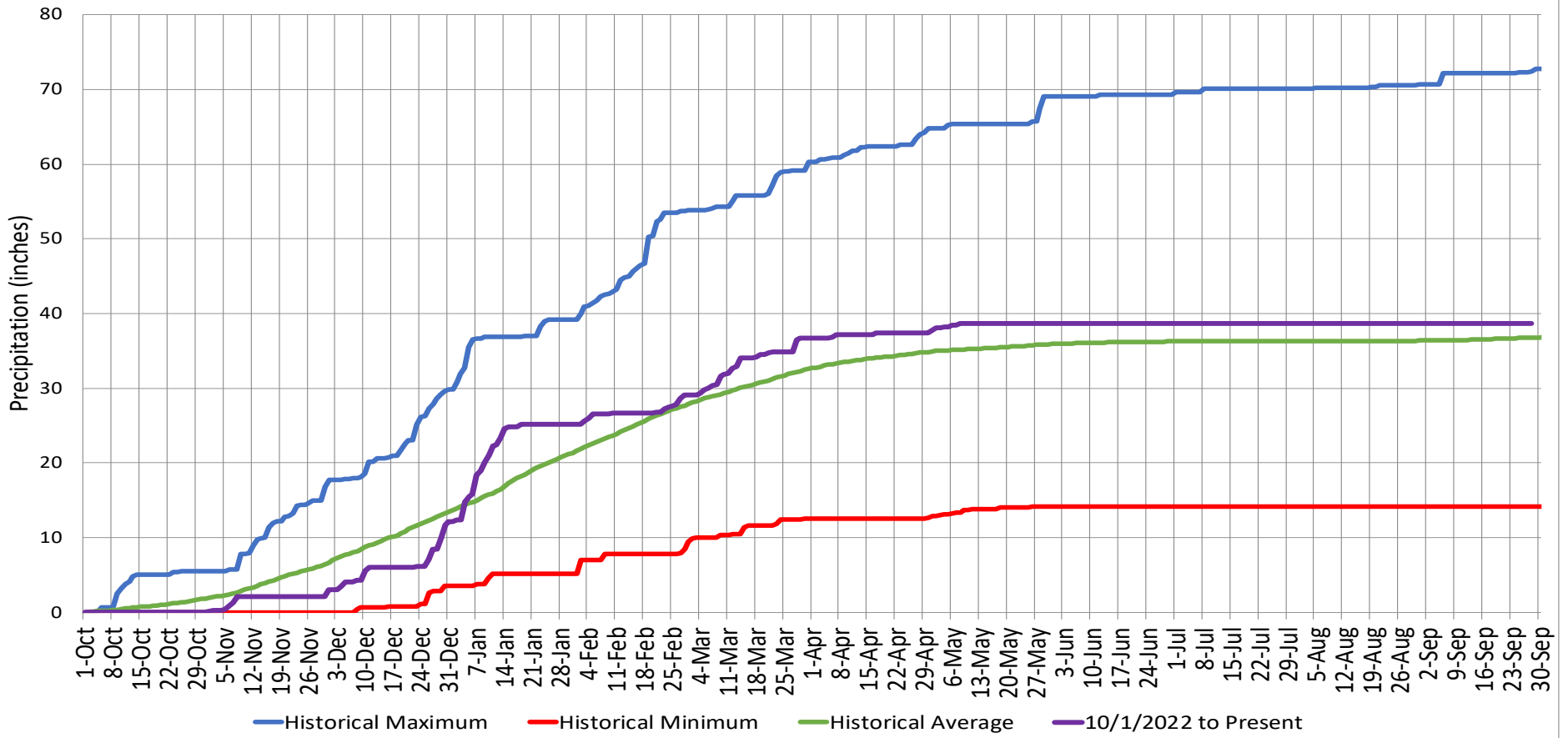
*West Fork(USGS 11461000) + East Fork (Coyote Valley Dam Release)



Precipitation

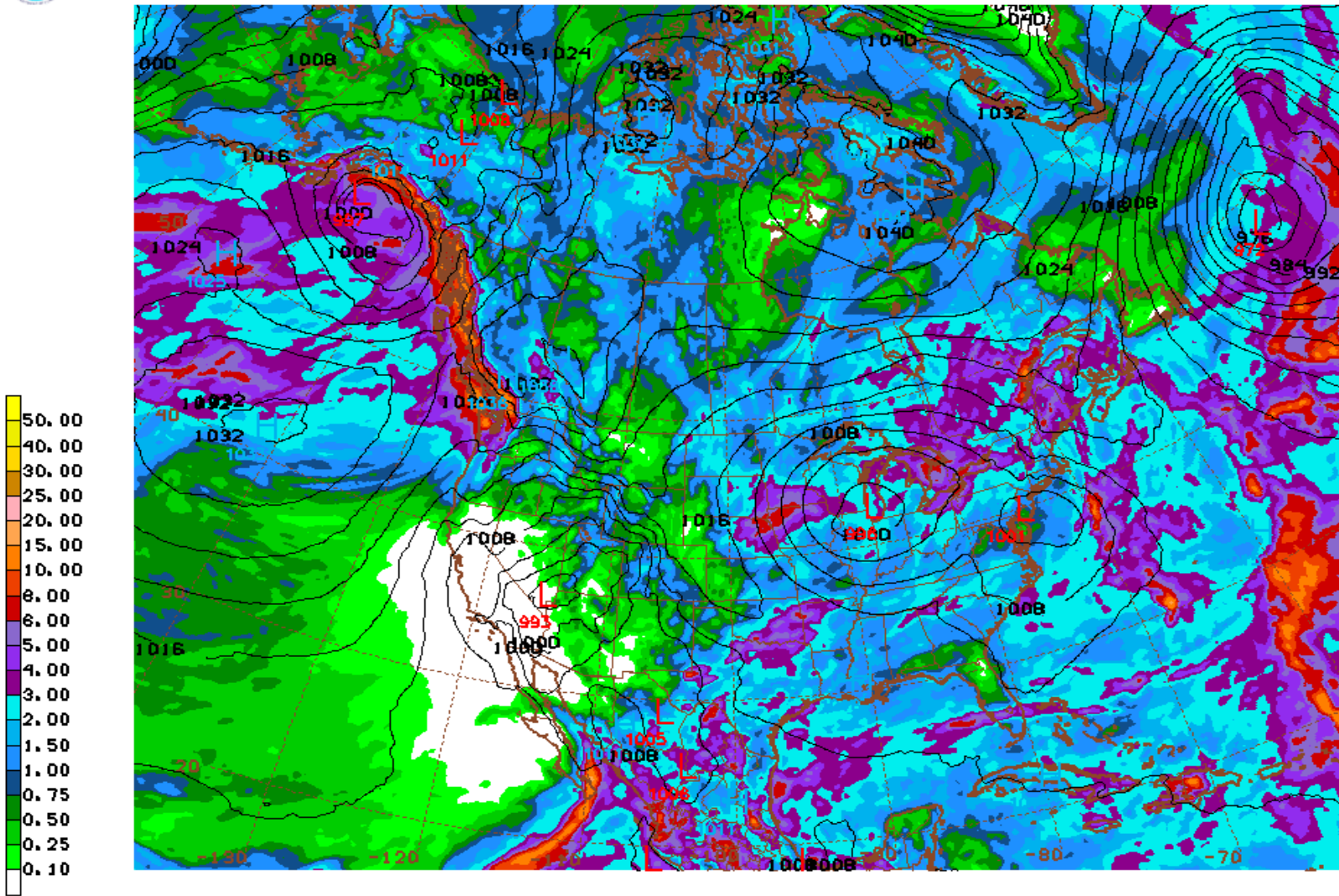
Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2022 - Sep 28, 2023	38.71
Last 7 Days*	0.07

Cumulative Precipitation Comparison of Current Year versus Historic Record



Global Forecast System Model 16-day Cumulative Precipitation Forecast

6FS 10/02/23 12UTC 384HR FCST VALID WED 10/18/23 12UTC NOAA/NWS/NCEP



6FS WED 231018/1200V384 EMSL (4MB), 384HR ACCUMULATED PRECIP (IN)

Date Range
Oct 2 - Oct 18, 2023

Forecasted Cumulative (inches)
0.00

Russian River Fisheries Monitoring



Video has been reviewed through September 18, 2023. 25 Chinook salmon have been observed. No steelhead or coho have been observed.