



**State Water Resources Control Board
 Temporary Urgency Change Order (5/19/2023)
 Russian River Hydrologic Report
 September 1, 2023 - September 7, 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).

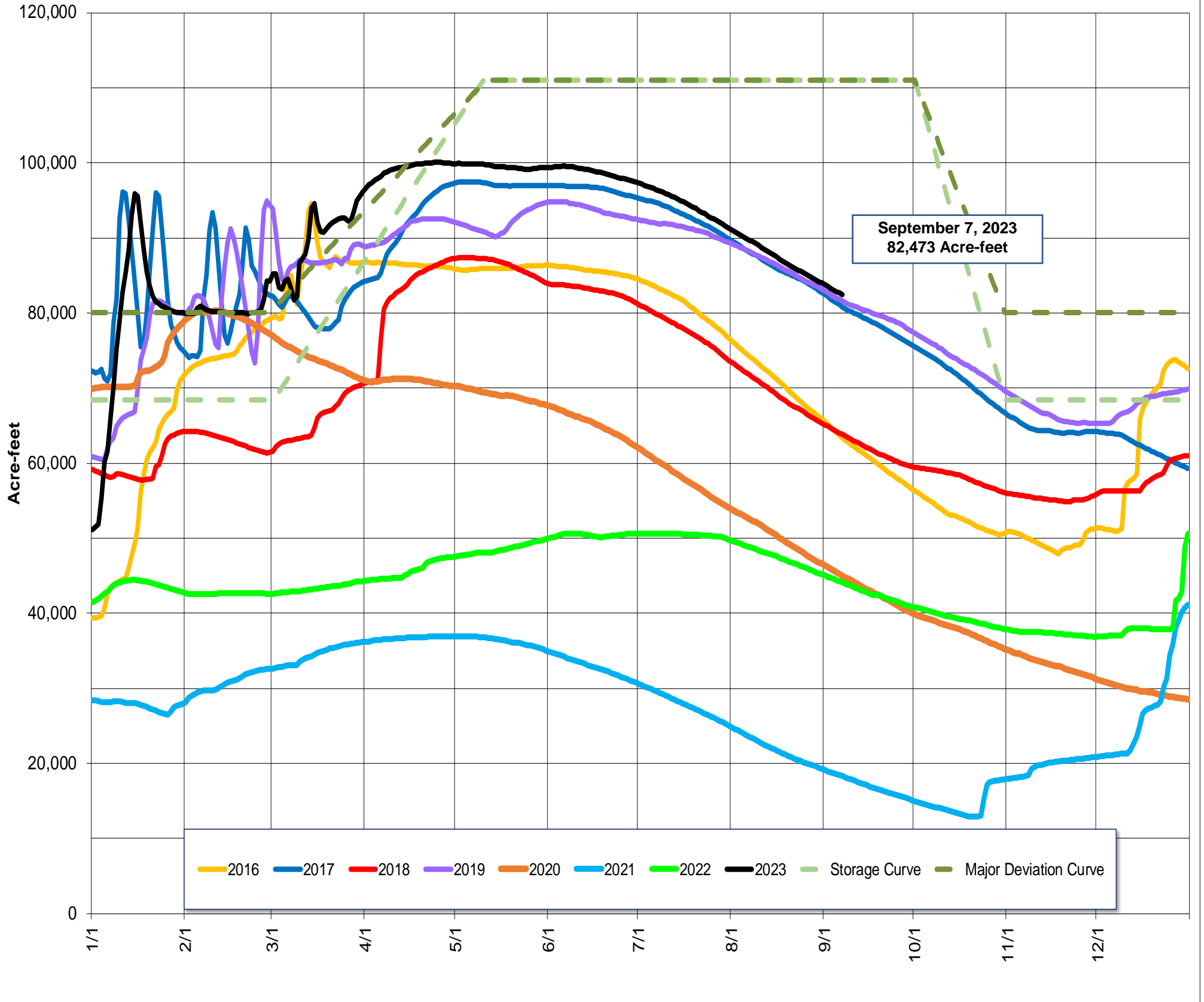
Instream Flow Requirements as of September 7, 2023

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



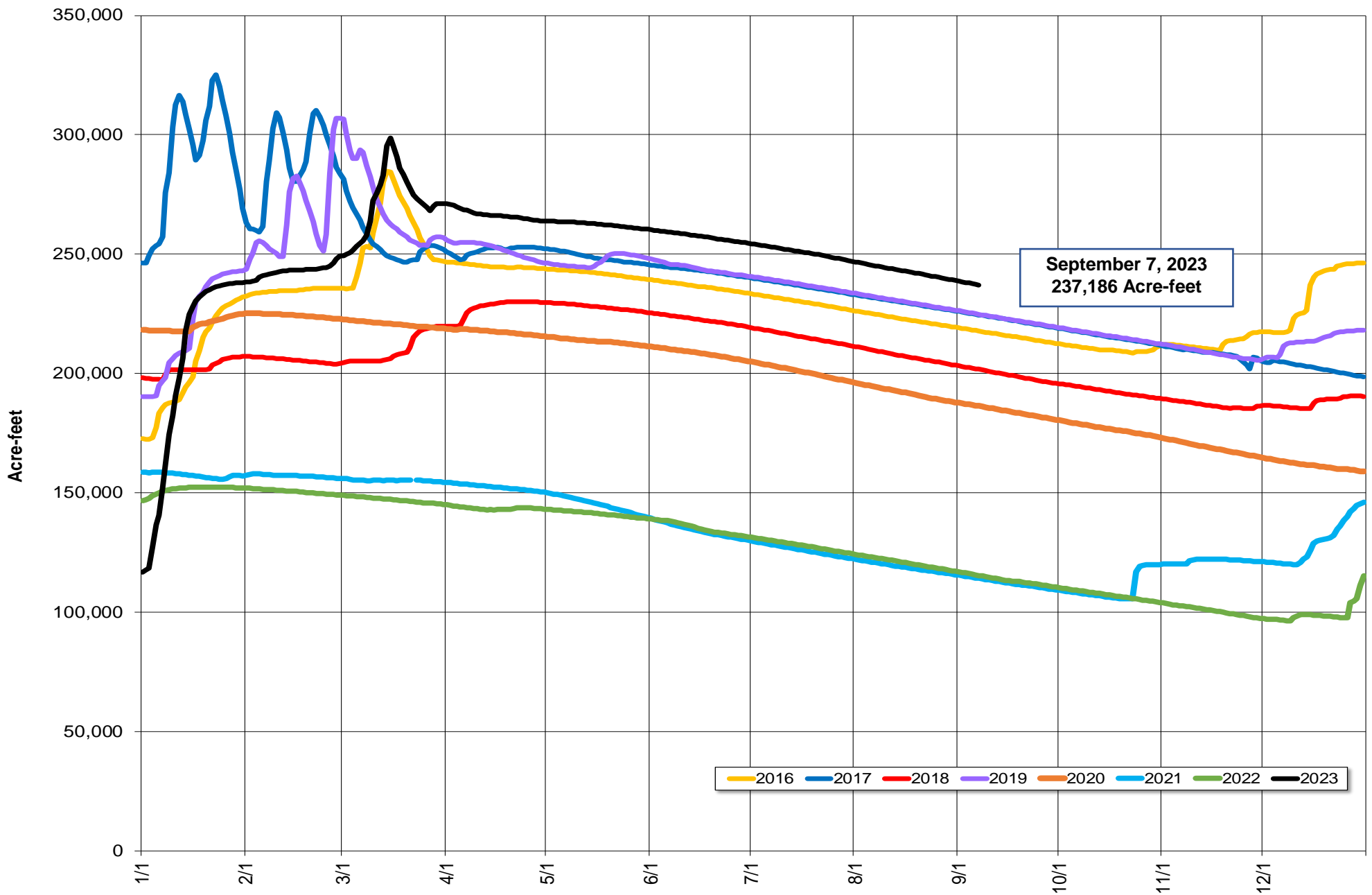
Storage (acre-feet)	September 7, 2023	82,473	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	-7,014	-234
	Last 7 days	-1,250	-179
Daily Inflow (cfs)	Last 7 days	Min	74
		Max	111
		Mean	86
Release (cfs)	Last 7 days	Min	173
		Max	189
		Mean	180

Lake Sonoma



Nathan Baskett, March 3, 2011

Lake Sonoma Storage 2016-2023



Storage (acre-feet)	September 7, 2023	237,186	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
		-7,724	-257
	Last 7 days	-1,474	-211
Daily Inflow (cfs)	Last 7 days	Min	0
		Max	7
		Mean	3
Release (cfs)	Last 7 days	Min	109
		Max	110
		Mean	109

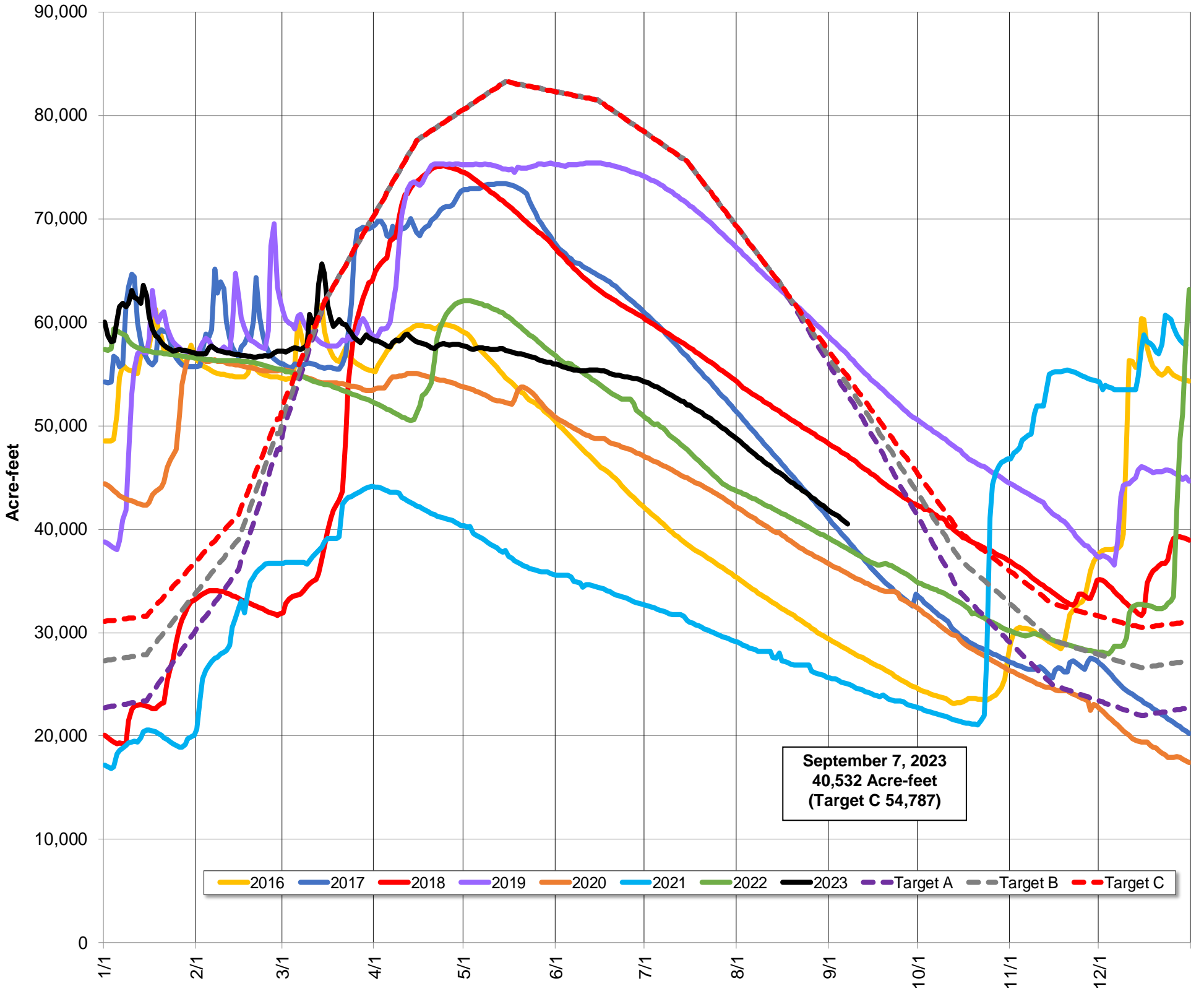
Potter Valley Project

PVP Diversion (cfs)	September 7, 2023	103
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2022 - September 7, 2023	621,900	1,818
	Last 7 days	322	46

*Inflow calculation based on criteria established in D1610

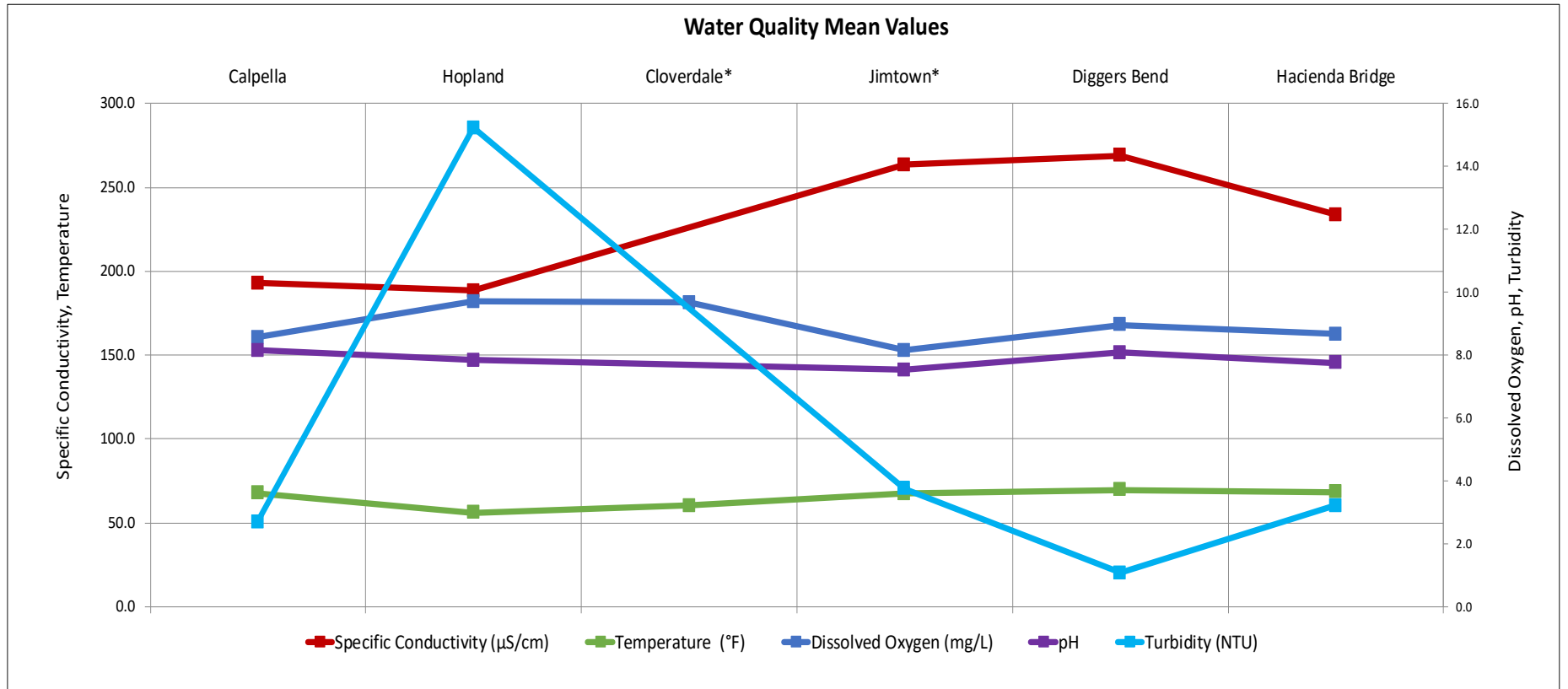
Lake Pillsbury Storage 2016 - 2023 and Target Storage Scenarios



Russian River Flows (September 1, 2023 - September 7, 2023)

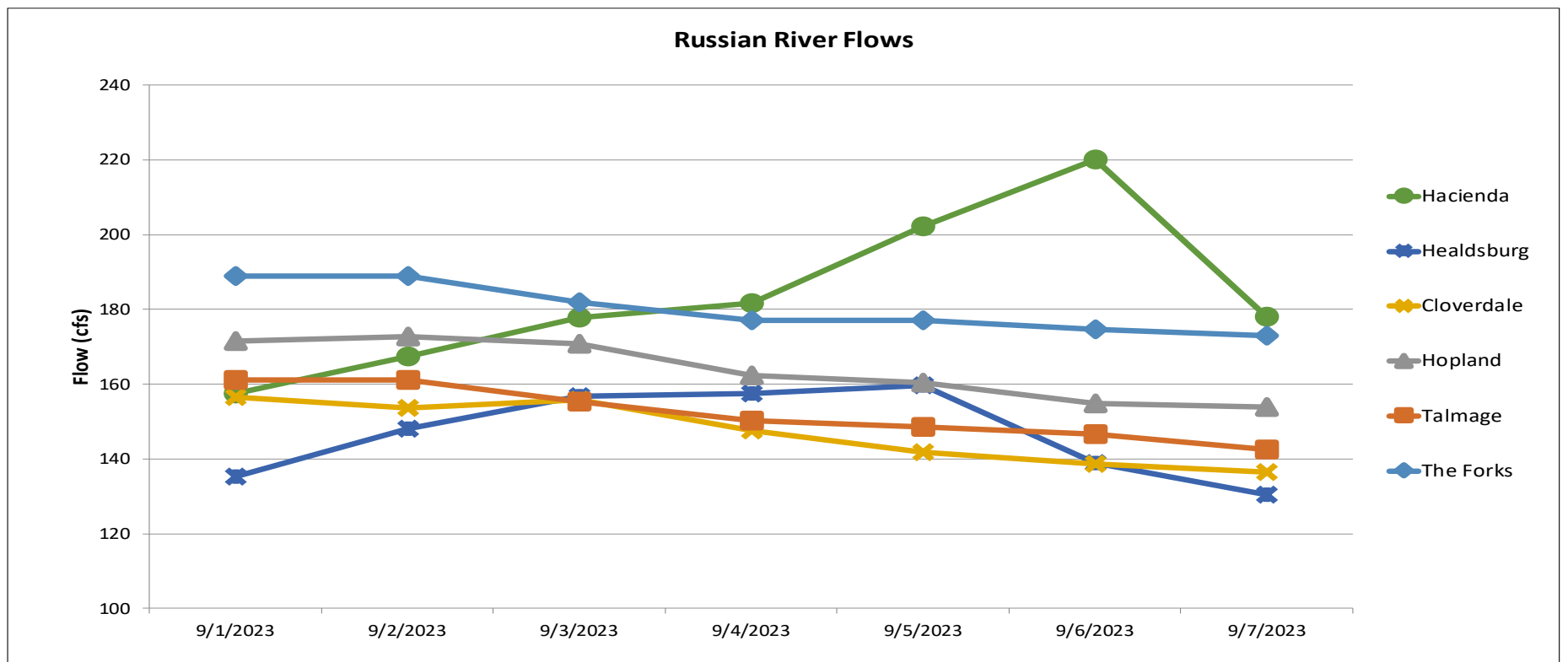
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	65.7	54.5	57.9	65.1	66.7		65.7	
	Max	69.8	58.3	64.0	70.9	72.9		70.9	
	Mean	67.7	56.1	60.2	67.4	69.6		68.2	
Specific Conductivity (µS/cm)	Min	189.0	186.0		260.0	265.0		231.0	
	Max	196.0	191.0		270.0	273.0		244.0	
	Mean	193.0	188.4		263.4	269.0		233.9	
Dissolved Oxygen (mg/L)	Min	8.2	9.2	8.6	6.8	7.2		6.6	
	Max	9.2	10.4	11.3	10.4	11.1		10.0	
	Mean	8.6	9.7	9.7	8.1	9.0		8.7	
Dissolved Oxygen (% Saturation)	Min	90.4	87.7	86.0	73.6	79.5		71.3	
	Max	102.0	101.6	116.5	117.1	127.5		112.6	
	Mean	93.8	92.9	97.3	89.1	100.5		95.6	
pH	Min	8.1	7.8		7.4	7.7		7.3	
	Max	8.3	8.0		7.8	8.5		8.1	
	Mean	8.2	7.8		7.5	8.1		7.8	
Turbidity (NTU)	Min	1.7	12.7		3.0	0.7		2.6	
	Max	4.1	20.5		4.6	1.7		4.3	
	Mean	2.7	15.2		3.7	1.1		3.2	

*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	Sep 1, 2023	Sep 2, 2023	Sep 3, 2023	Sep 4, 2023	Sep 5, 2023	Sep 6, 2023	Sep 7, 2023
The Forks*	189	189	182	177	177	175	173
Talmage USGS 11462080	161	161	155	150	149	147	142
Hopland USGS 11462500	172	173	171	162	160	155	154
Cloverdale USGS 11463000	157	154	156	147	142	139	136
Healdsburg USGS 11464000	135	148	157	157	160	139	130
Hacienda USGS 11467000	157	168	178	182	202	220	178

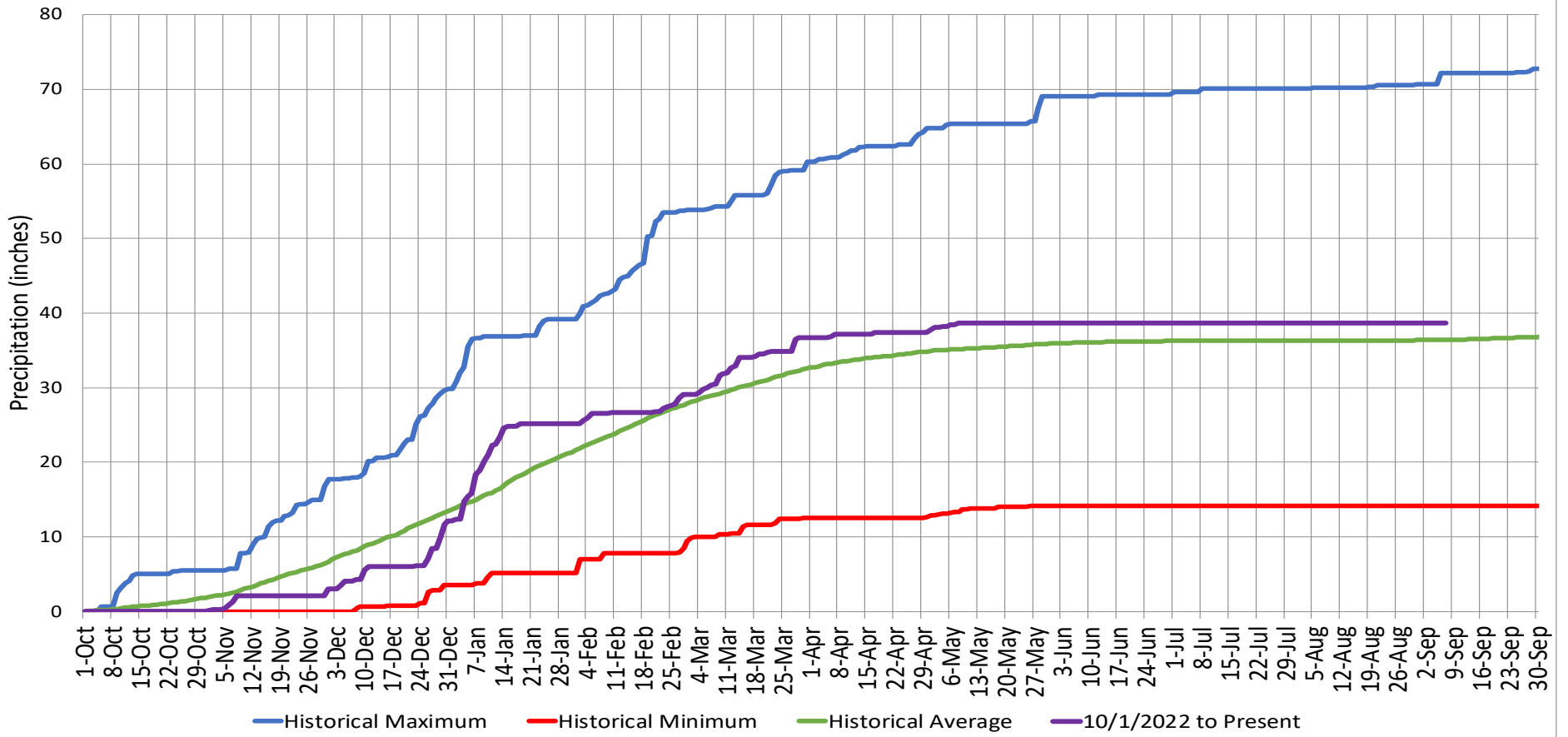
*West Fork(USGS 11461000) + East Fork (Coyote Valley Dam Release)



Precipitation

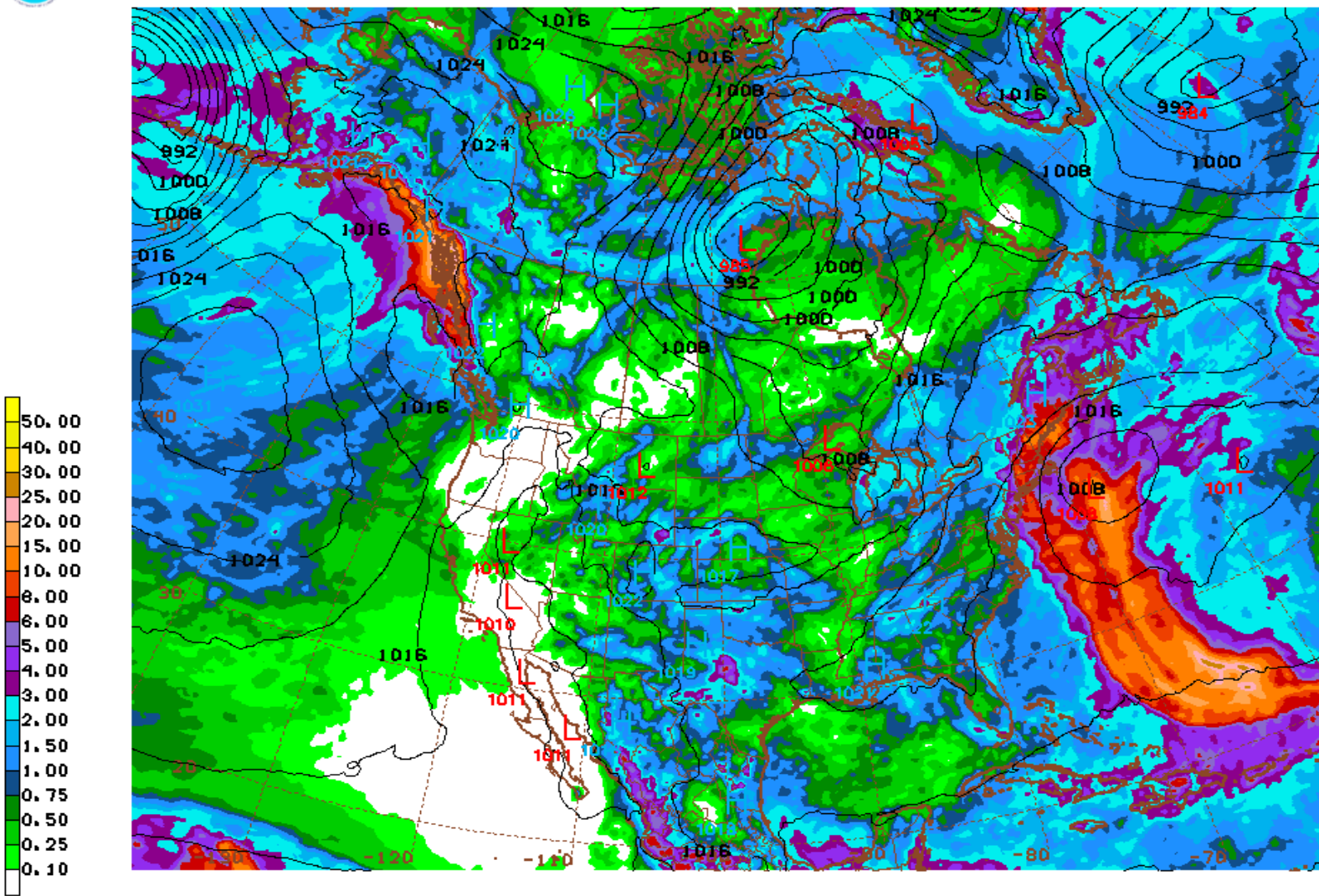
Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2022 - Sep 7, 2023	38.64
Last 7 Days*	0.00

Cumulative Precipitation Comparison of Current Year versus Historic Record



Global Forecast System Model 16-day Cumulative Precipitation Forecast

6FS 09/11/23 12UTC 384HR FCST VALID MED 09/27/23 12UTC NOAA/NWS/NCEP



6FS MED 230927/1200V384 EMSL (4MB), 384HR ACCUMULATED PRECIP (IN)

Date Range
 Sep 11 - Sep 27, 2023

Forecasted Cumulative (inches)
0.46

Russian River Fisheries Monitoring



Sonoma Water installed the video camera in the fish ladder at the Mirabel dam to monitor the number of adult salmon and steelhead passing the dam.