



**State Water Resources Control Board
 Temporary Urgency Change Order (5/19/2023)
 Russian River Hydrologic Report
 September 8, 2023 - September 14, 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).

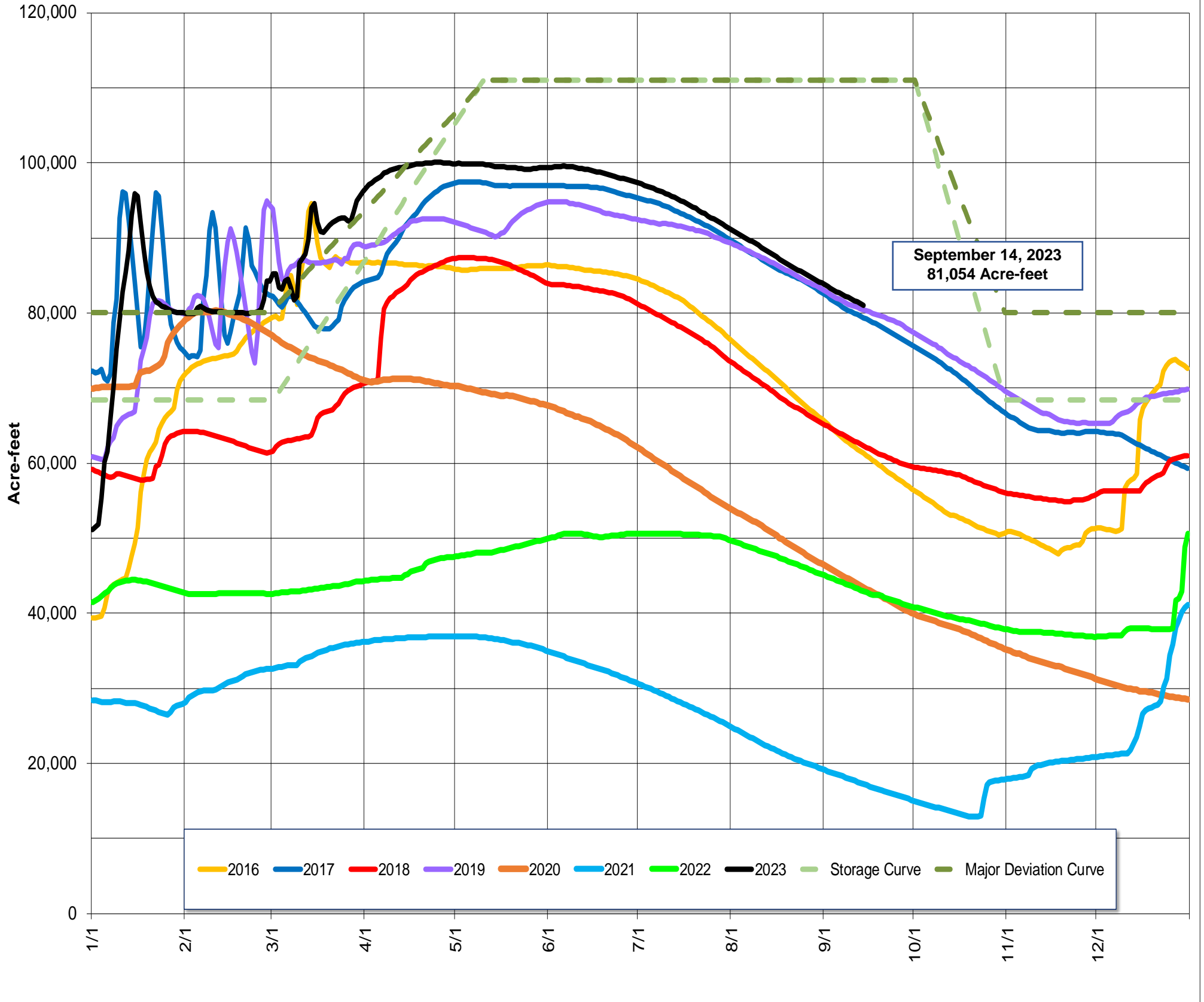
Instream Flow Requirements as of September 14, 2023

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



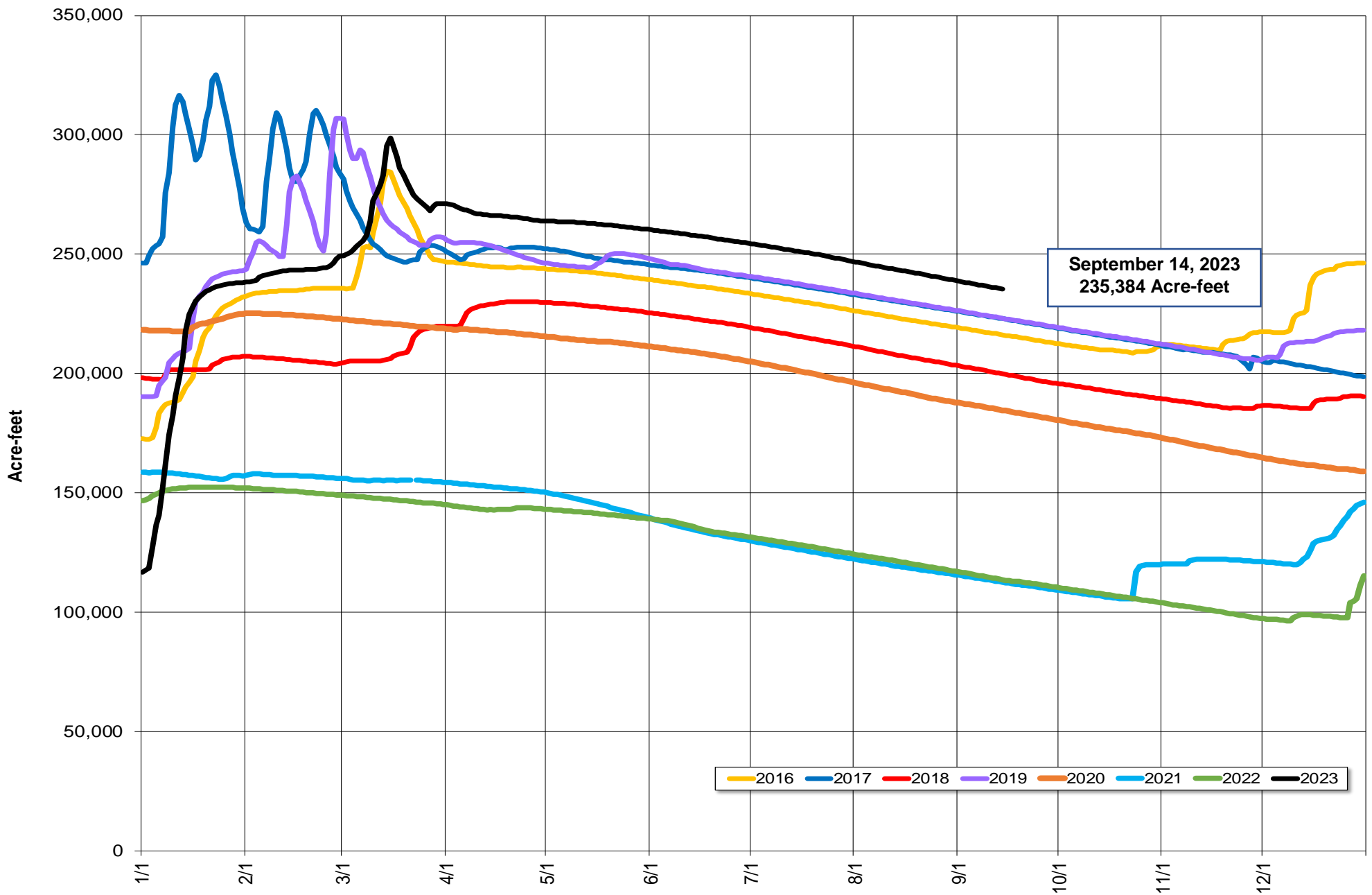
Storage (acre-feet)	September 14, 2023	81,054	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	-6,645	-222
	Last 7 days	-1,211	-173
Daily Inflow (cfs)	Last 7 days	Min	83
		Max	108
		Mean	96
Release (cfs)	Last 7 days	Min	173
		Max	189
		Mean	184

Lake Sonoma



Nathan Baskett, March 3, 2011

Lake Sonoma Storage 2016-2023



Storage (acre-feet)	September 14, 2023	235,384	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	-7,737	-258
	Last 7 days	-1,544	-221
Daily Inflow (cfs)	Last 7 days	Min	0
		Max	10
		Mean	2
Release (cfs)	Last 7 days	Min	107
		Max	113
		Mean	110

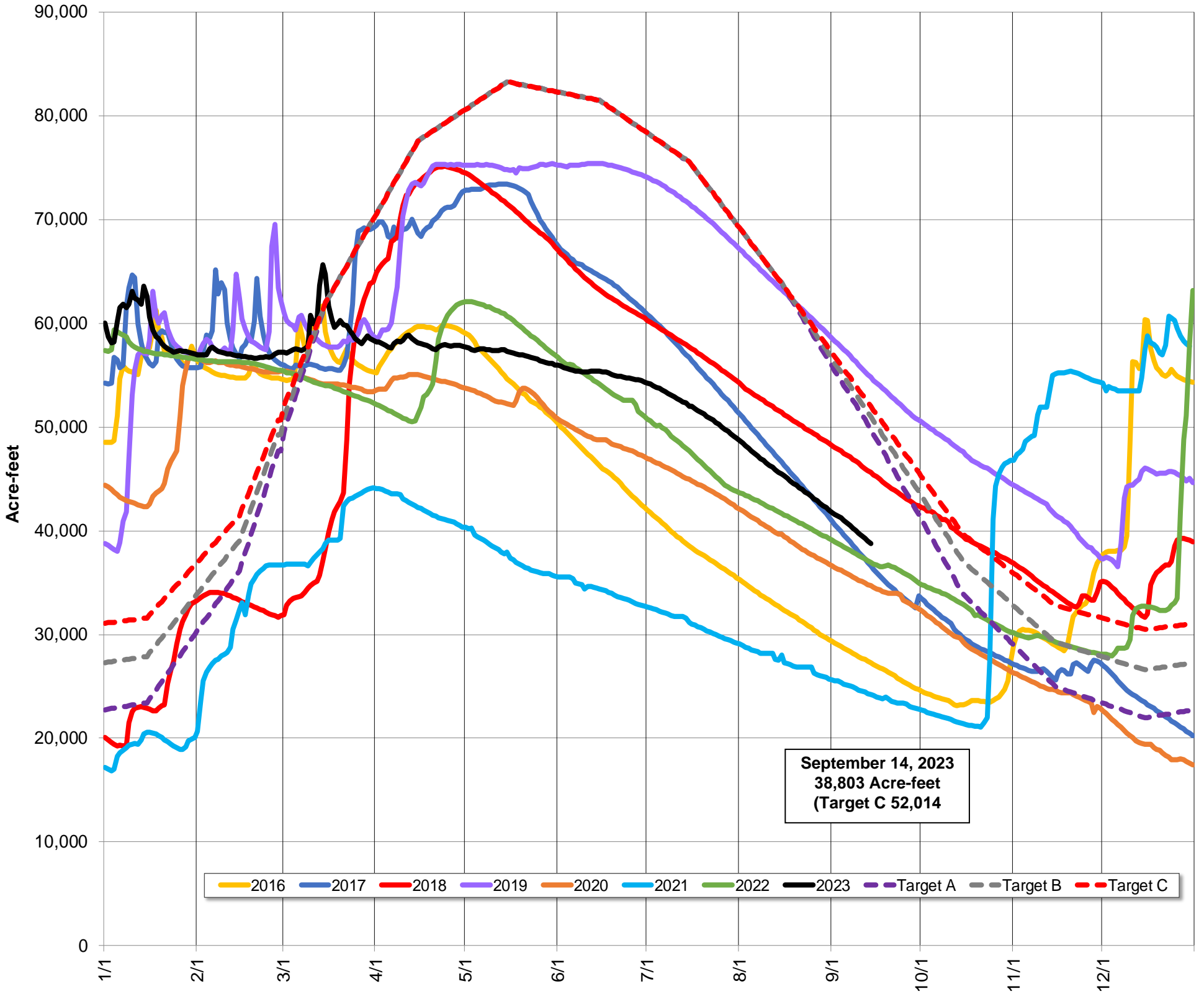
Potter Valley Project

PVP Diversion (cfs)	September 14, 2023	104
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2022 - September 14, 2023	622,252	1,783
	Last 7 days	295	42

*Inflow calculation based on criteria established in D1610

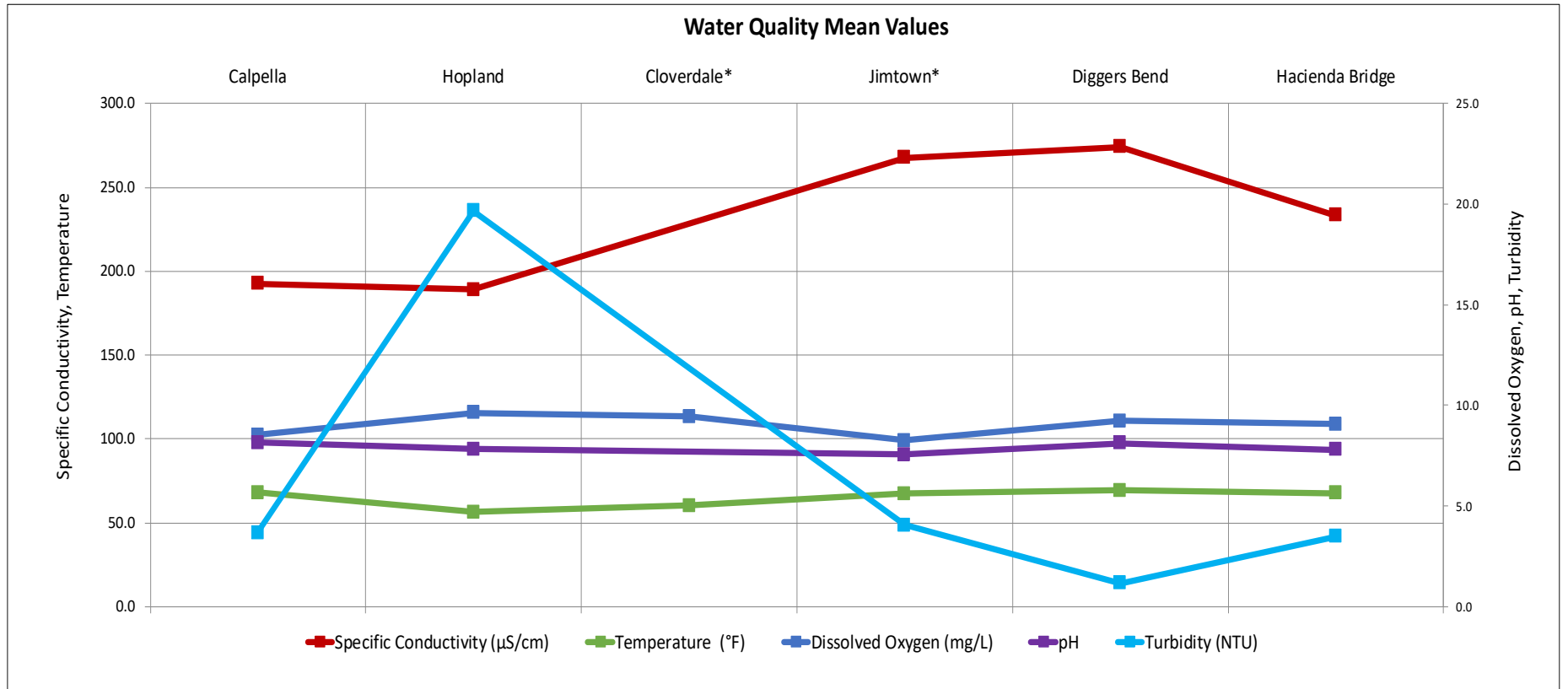
Lake Pillsbury Storage 2016 - 2023 and Target Storage Scenarios



Russian River Flows (September 8, 2023 - September 14, 2023)

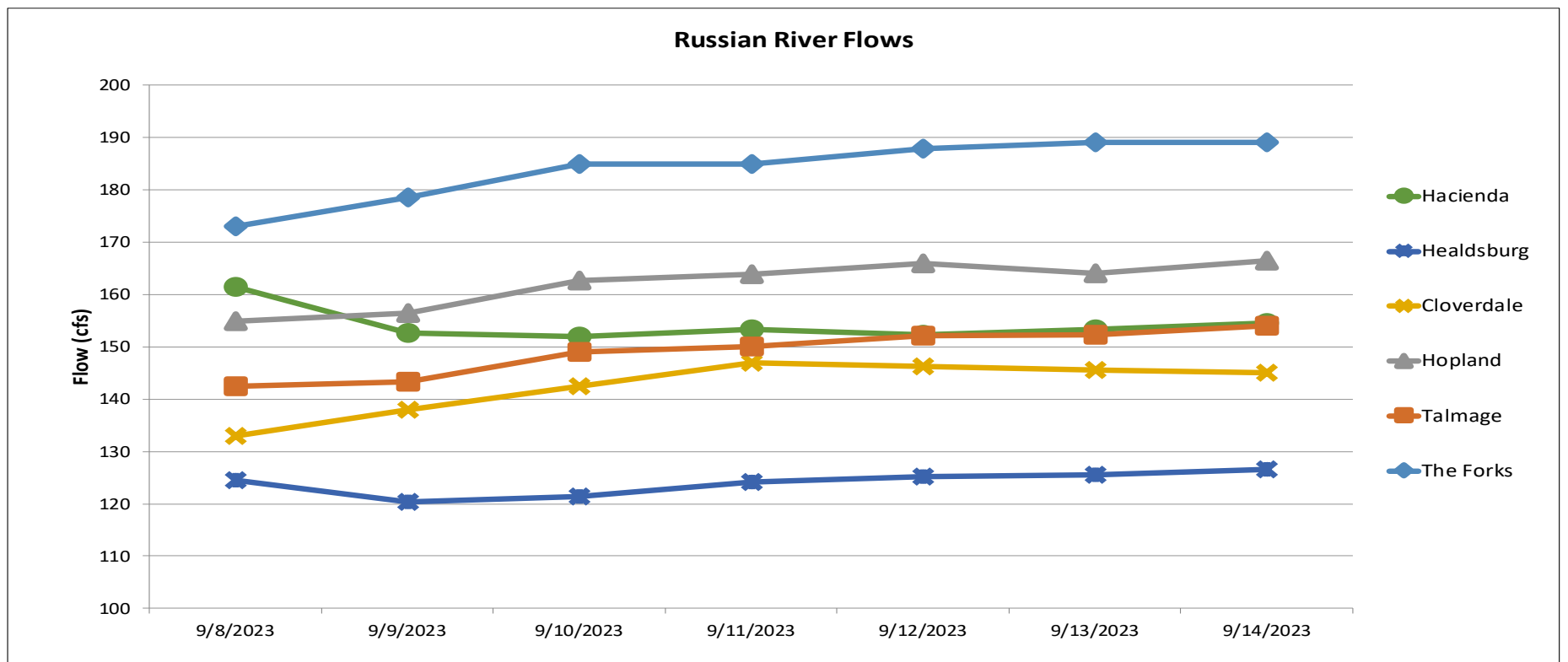
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	65.3	54.7	57.7	64.4	66.2		65.1	
	Max	70.7	57.9	63.7	70.7	72.7		70.2	
	Mean	68.0	56.3	60.3	67.4	69.4		67.7	
Specific Conductivity (µS/cm)	Min	190.0	187.0		263.0	269.0		229.0	
	Max	195.0	191.0		273.0	279.0		244.0	
	Mean	192.6	189.1		267.7	274.3		233.4	
Dissolved Oxygen (mg/L)	Min	8.1	9.2	8.5	7.0	7.2		7.6	
	Max	9.1	10.3	11.1	10.6	11.4		10.3	
	Mean	8.5	9.6	9.4	8.3	9.2		9.1	
Dissolved Oxygen (% Saturation)	Min	90.5	87.8	84.9	74.2	78.4		82.1	
	Max	100.5	100.6	115.0	119.3	131.2		115.0	
	Mean	93.8	92.4	95.1	90.5	103.2		99.4	
pH	Min	8.0	7.8		7.3	7.7		7.5	
	Max	8.3	7.9		7.9	8.6		8.1	
	Mean	8.1	7.8		7.5	8.1		7.8	
Turbidity (NTU)	Min	2.5	15.4		3.1	0.7		2.8	
	Max	5.3	26.4		5.1	1.9		4.4	
	Mean	3.7	19.7		4.0	1.2		3.5	

*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	Sep 8, 2023	Sep 9, 2023	Sep 10, 2023	Sep 11, 2023	Sep 12, 2023	Sep 13, 2023	Sep 14, 2023
The Forks*	173	179	185	185	188	189	189
Talmage USGS 11462080	142	143	149	150	152	152	154
Hopland USGS 11462500	155	156	163	164	166	164	166
Cloverdale USGS 11463000	133	138	143	147	146	146	145
Healdsburg USGS 11464000	125	120	121	124	125	126	127
Hacienda USGS 11467000	161	153	152	153	152	153	155

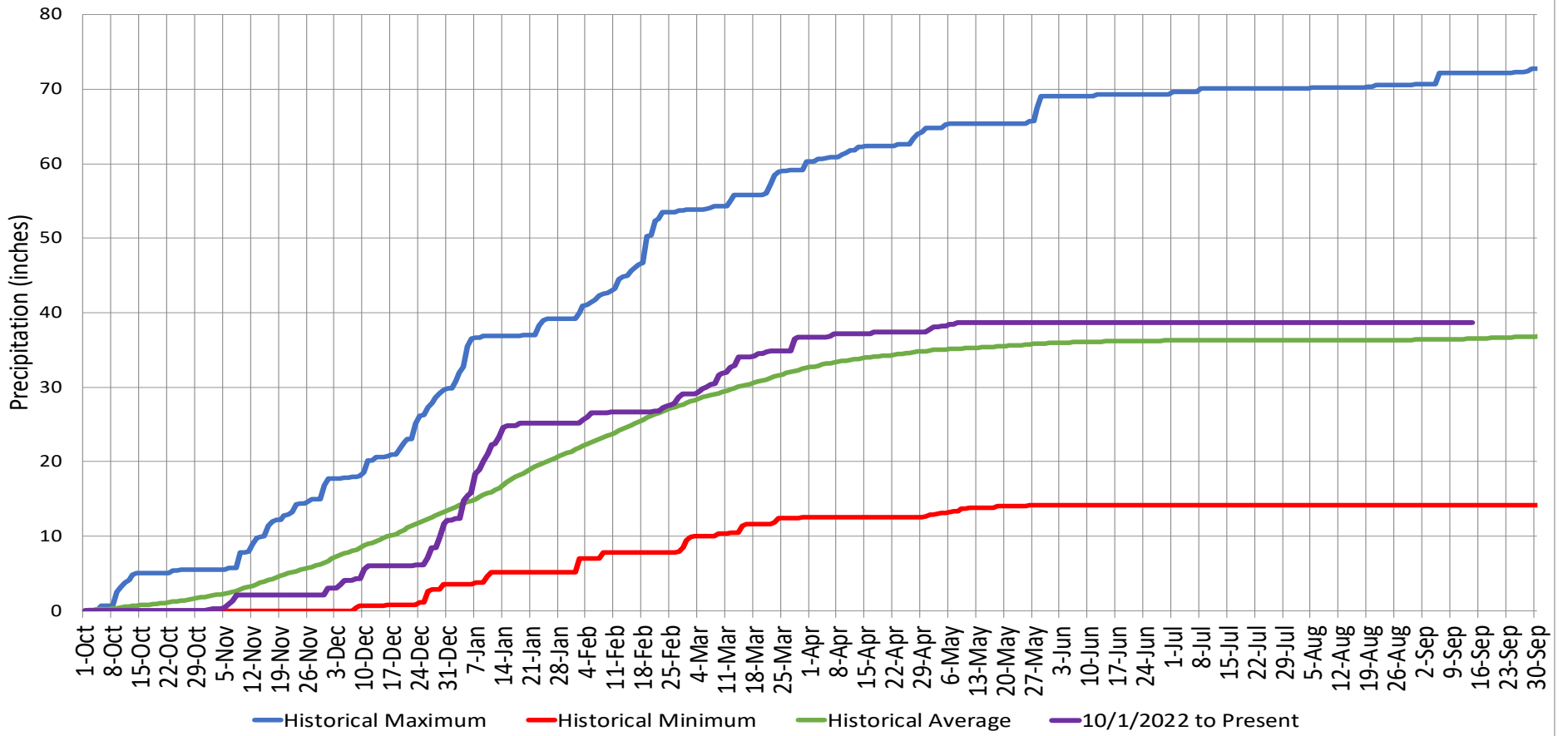
*West Fork(USGS 11461000) + East Fork (Coyote Valley Dam Release)



Precipitation

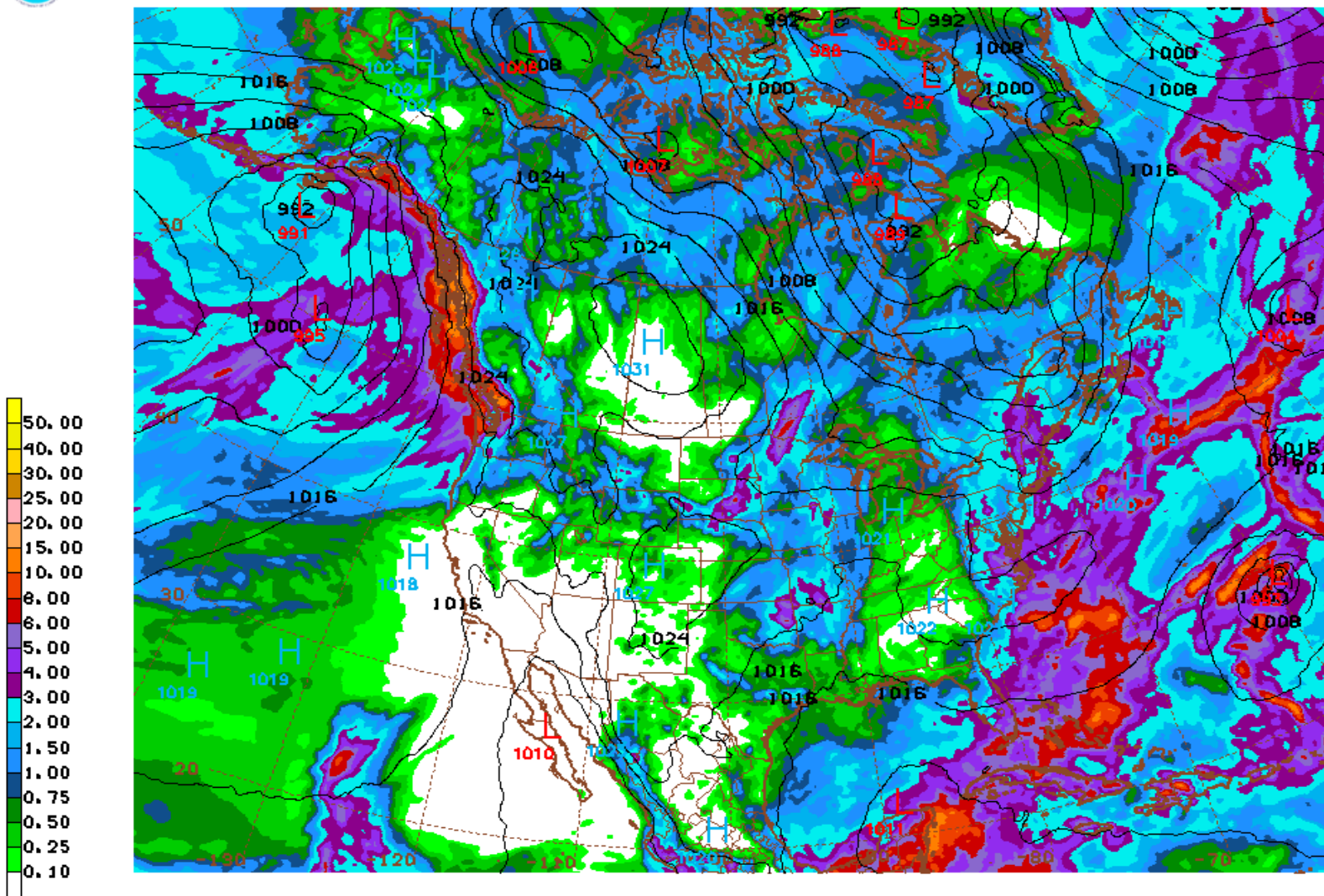
Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2022 - Sep 14, 2023	38.64
Last 7 Days*	0.00

Cumulative Precipitation Comparison of Current Year versus Historic Record



Global Forecast System Model 16-day Cumulative Precipitation Forecast

6FS 09/18/23 12UTC 384HR FCST VALID WED 10/04/23 12UTC NOAA/NWS/NCEP



6FS WED 231004/1200V384 EMSL (4MB), 384HR ACCUMULATED PRECIP (IN)

Date Range
Sep 18 - Oct 4, 2023

Forecasted Cumulative (inches)
0.00

Russian River Fisheries Monitoring



Video has been reviewed through September 16, 2023 and no adult salmonids have been observed. Based on previous years data, few adult Chinook are observed in the month of September and the bulk of adult Chinook return to the Russian River from mid-October to mid-November.