



**State Water Resources Control Board
 Temporary Urgency Change Order (5/19/2023)
 Russian River Hydrologic Report
 July 28, 2023 - August 3, 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).

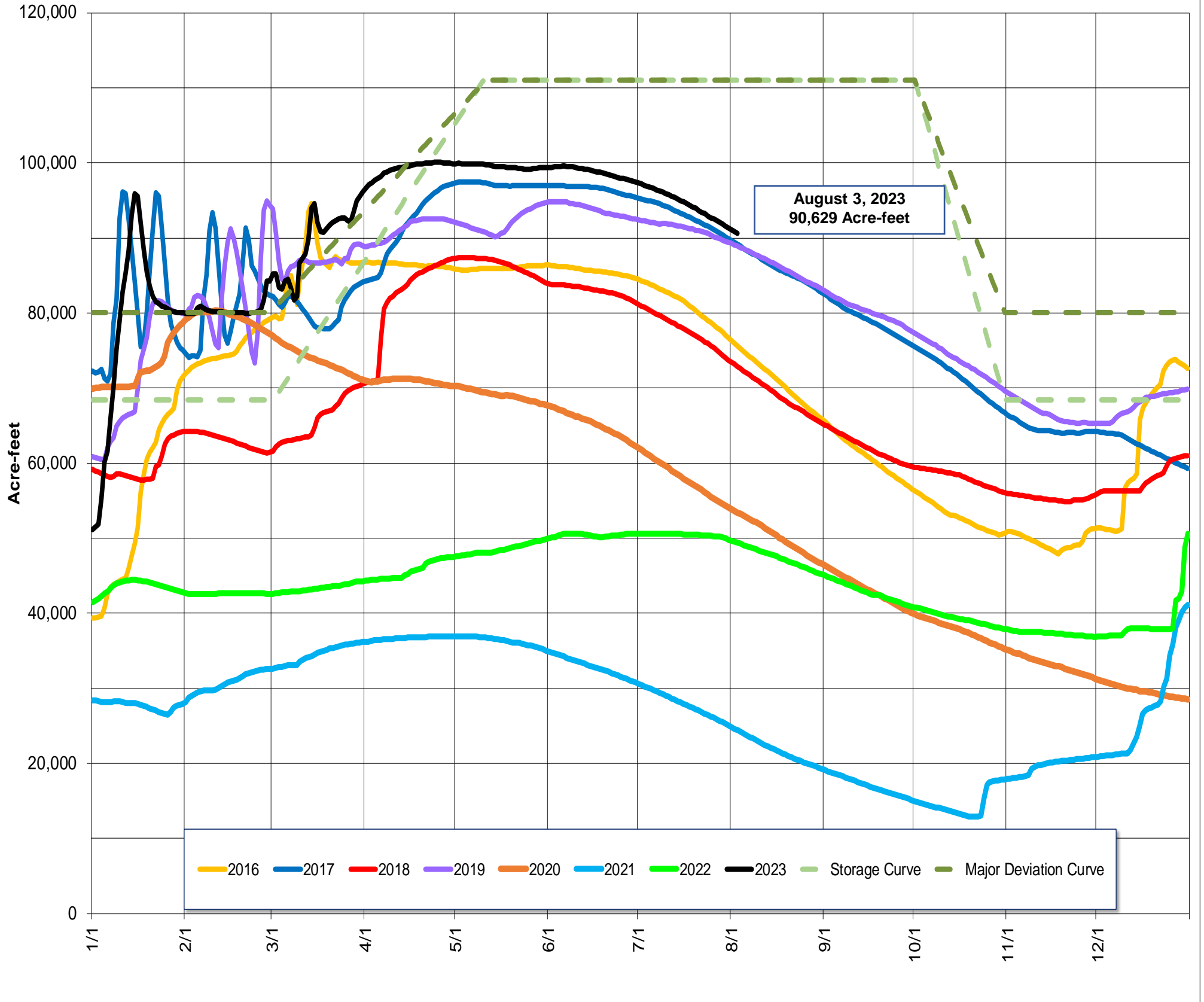
Instream Flow Requirements as of August 3, 2023

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



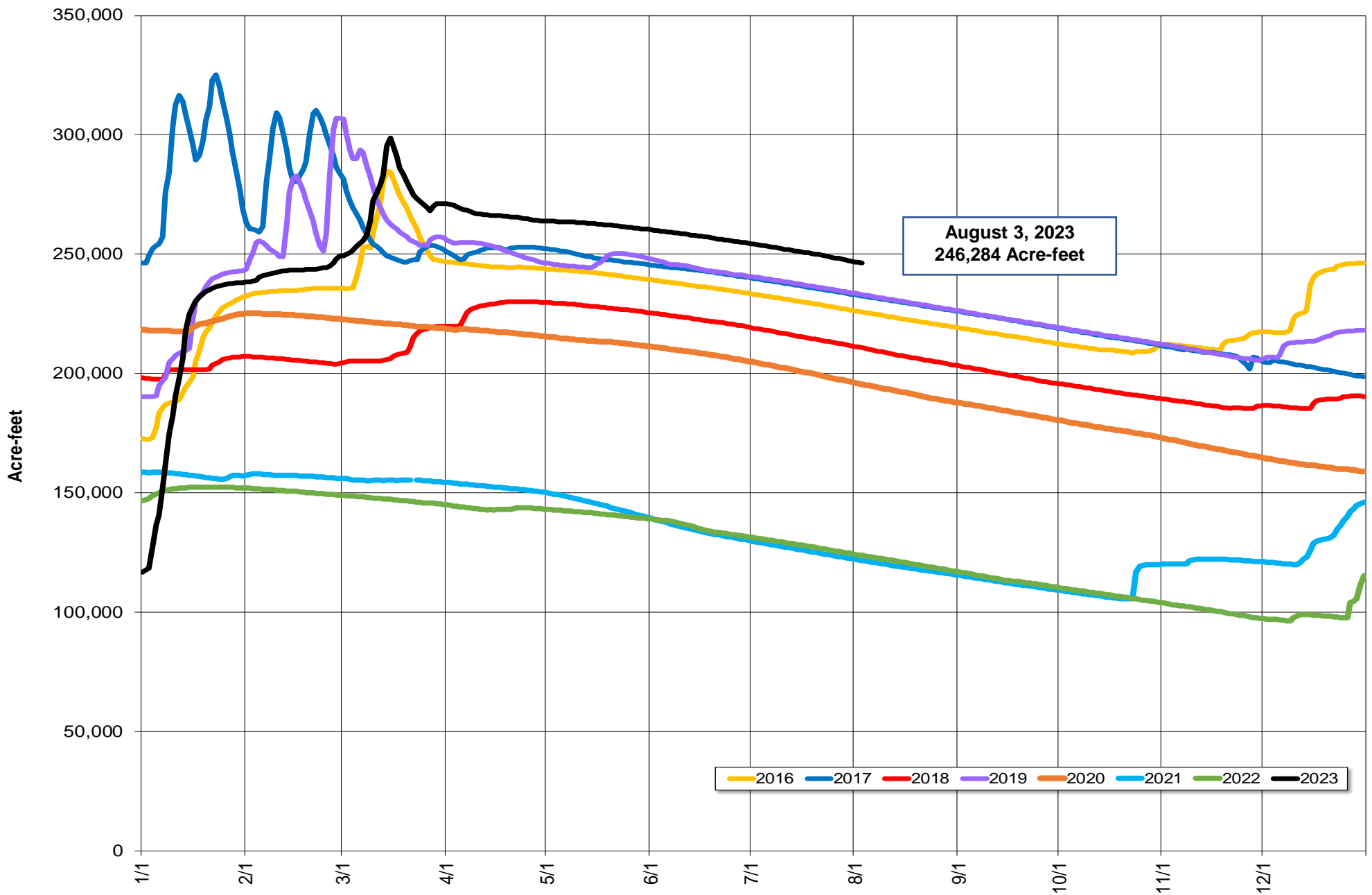
Storage (acre-feet)	August 3, 2023	90,629	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	-6,258	-209
	Last 7 days	-1,444	-206
Daily Inflow (cfs)	Last 7 days	Min	61
		Max	89
		Mean	74
Release (cfs)	Last 7 days	Min	169
		Max	181
		Mean	177

Lake Sonoma



Nathan Baskett, March 3, 2011

Lake Sonoma Storage 2016-2023



Storage (acre-feet)	August 3, 2023	246,284	
Change in Storage (acre-feet)	Last 30 days	-7,408	-247
	Last 7 days	-1,618	-231
Daily Inflow (cfs)	Last 7 days	Min	0
		Max	0
		Mean	0
Release (cfs)	Last 7 days	Min	105
		Max	106
		Mean	105

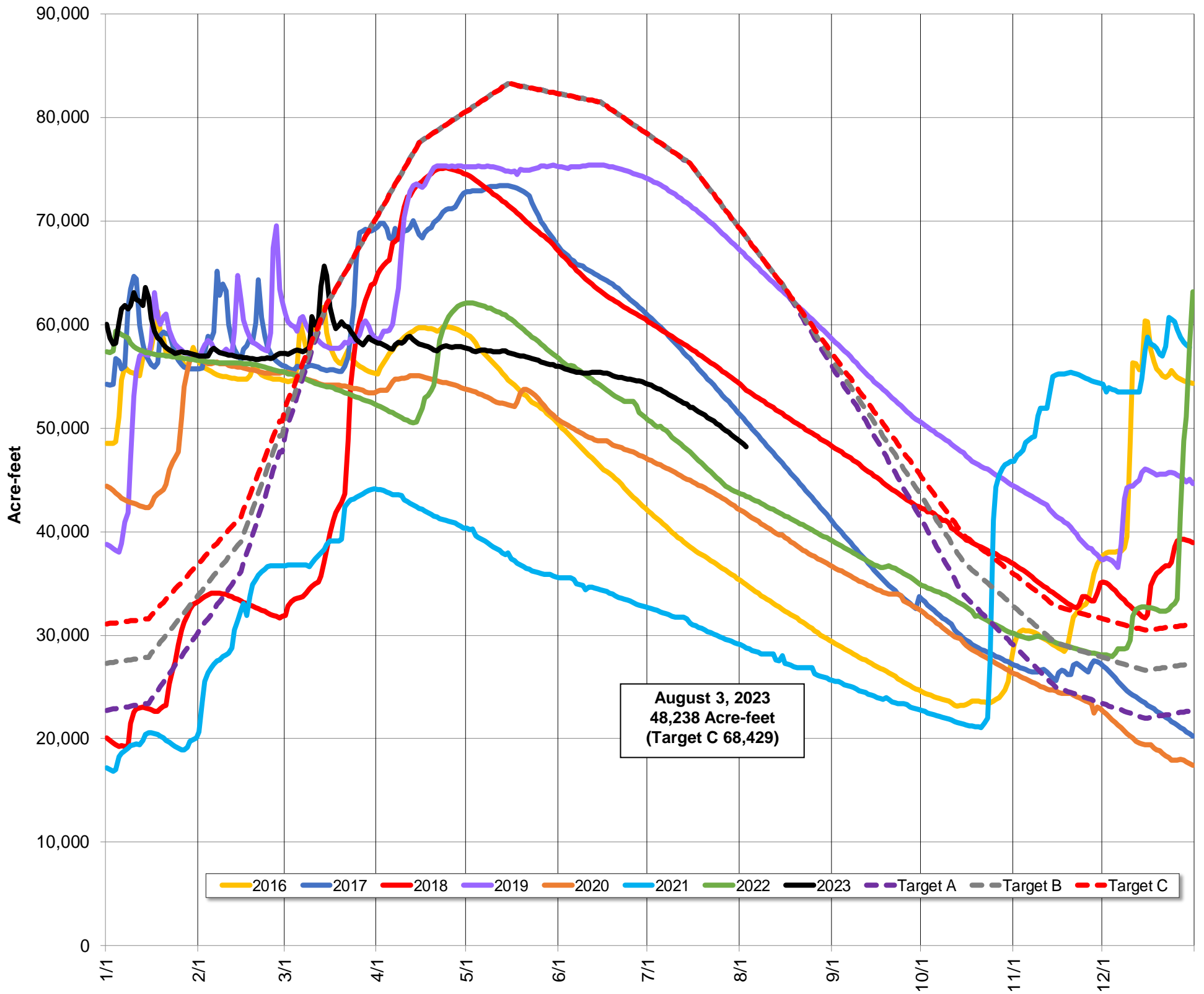
Potter Valley Project

PVP Diversion (cfs)	August 3, 2023	105
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2022 - August 3, 2023	619,745	2,019
	Last 7 days	434	62

*Inflow calculation based on criteria established in D1610

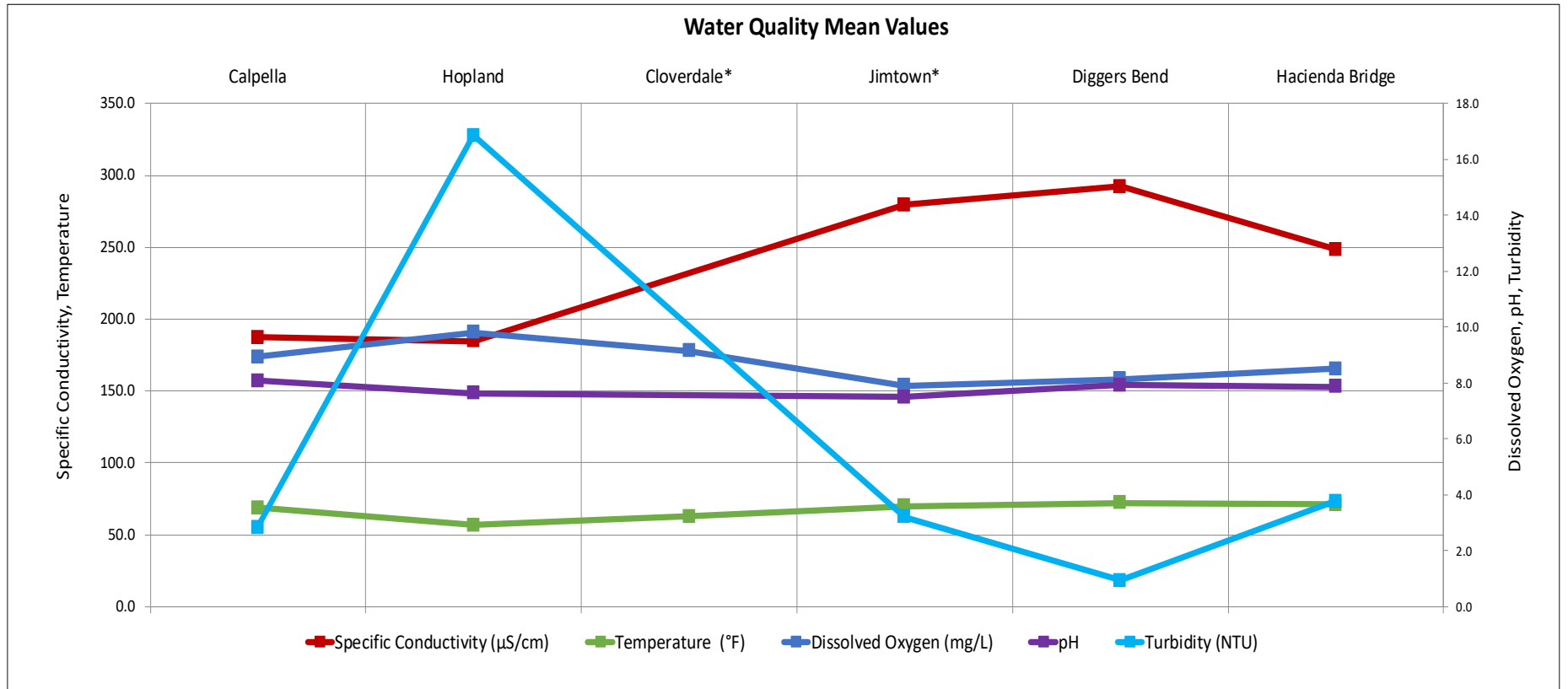
Lake Pillsbury Storage 2016 - 2023 and Target Storage Scenarios



Russian River Flows (July 28, 2023 - August 3, 2023)

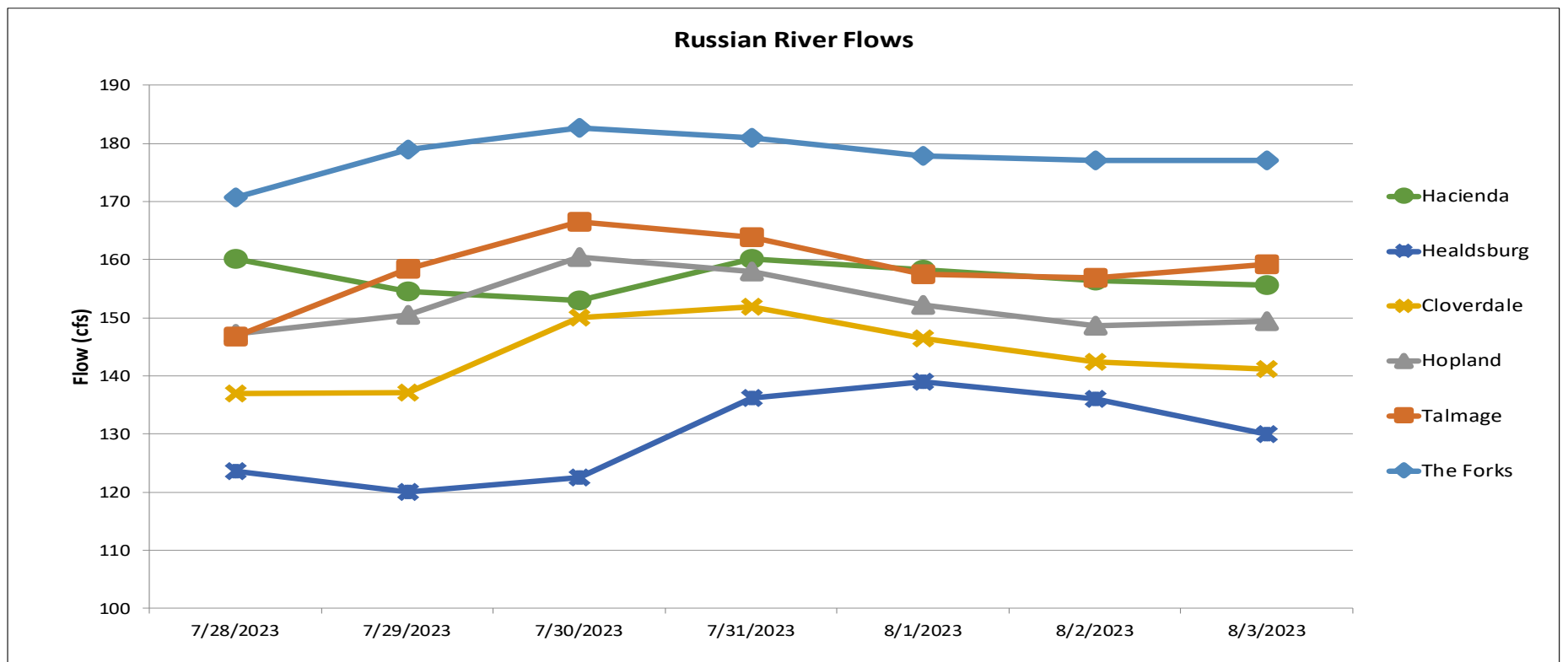
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	66.0	54.7	59.7	66.4	68.7		67.3	
	Max	71.2	59.0	66.9	74.5	76.3		74.7	
	Mean	68.8	56.8	62.8	70.0	72.2		71.0	
Specific Conductivity (µS/cm)	Min	181.0	183.0		274.0	283.0		247.0	
	Max	208.0	187.0		286.0	300.0		252.0	
	Mean	187.4	184.9		279.7	292.4		248.7	
Dissolved Oxygen (mg/L)	Min	8.4	9.3	8.1	6.7	7.4		6.8	
	Max	9.6	10.5	10.6	9.7	8.9		9.6	
	Mean	8.9	9.8	9.2	7.9	8.1		8.5	
Dissolved Oxygen (% Saturation)	Min	94.0	88.4	83.9	73.1	82.0		75.9	
	Max	108.1	103.5	113.3	112.5	105.7		111.3	
	Mean	99.1	94.8	95.1	89.1	93.8		96.7	
pH	Min	8.0	7.5		7.4	7.8		7.5	
	Max	8.3	7.8		7.7	8.1		8.2	
	Mean	8.1	7.6		7.5	7.9		7.9	
Turbidity (NTU)	Min	1.7	14.9		2.5	0.5		2.6	
	Max	4.8	18.5		4.0	1.8		6.3	
	Mean	2.8	16.9		3.2	0.9		3.8	

*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	Jul 28, 2023	Jul 29, 2023	Jul 30, 2023	Jul 31, 2023	Aug 1, 2023	Aug 2, 2023	Aug 3, 2023
The Forks*	171	179	183	181	178	177	177
Talmage USGS 11462080	147	158	167	164	157	157	159
Hopland USGS 11462500	147	150	160	158	152	149	149
Cloverdale USGS 11463000	137	137	150	152	146	142	141
Healdsburg USGS 11464000	124	120	122	136	139	136	130
Hacienda USGS 11467000	160	155	153	160	158	156	156

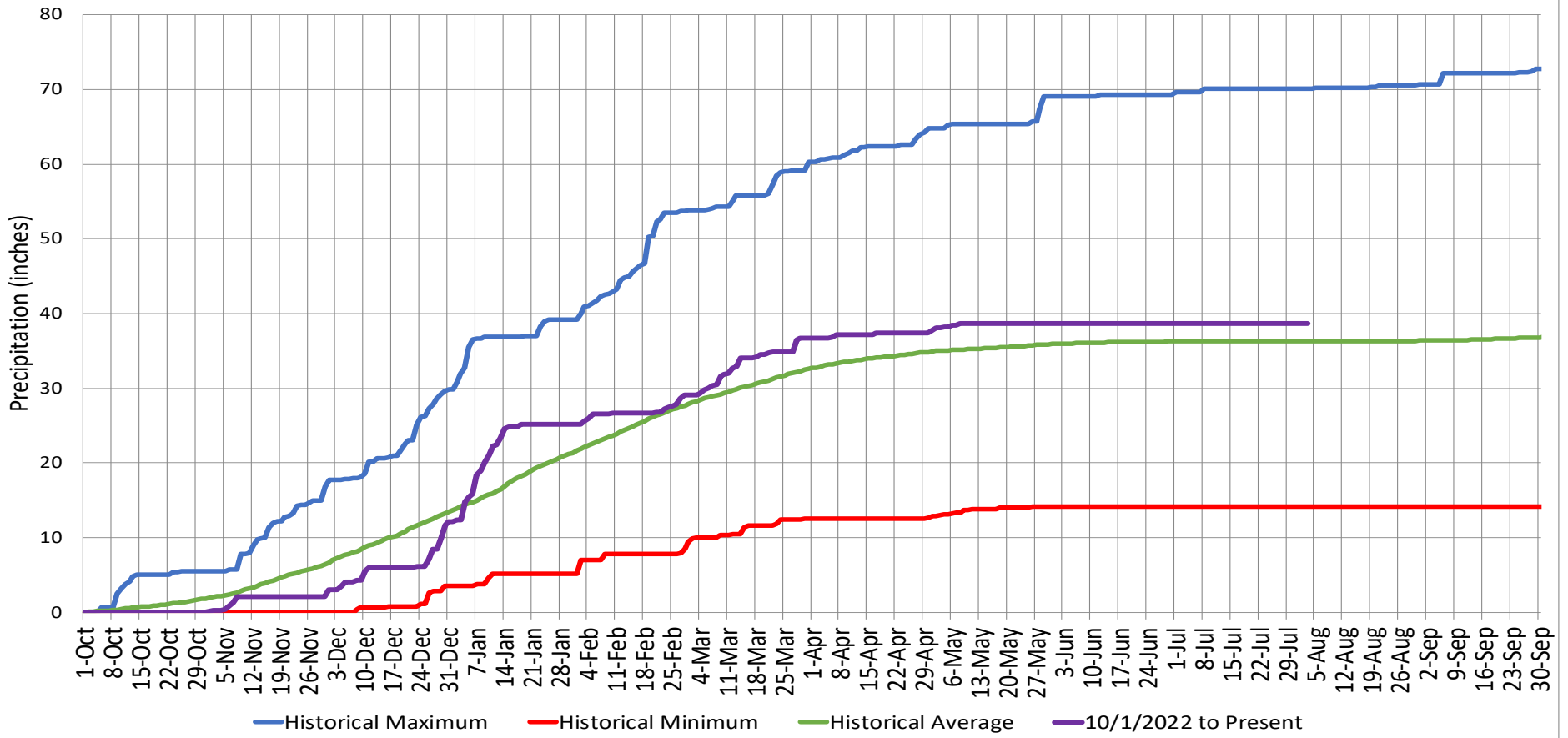
*West Fork(USGS 11461000) + East Fork (Coyote Valley Dam Release)



Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2022 - Aug 3, 2023	38.64
Last 7 Days*	0.00

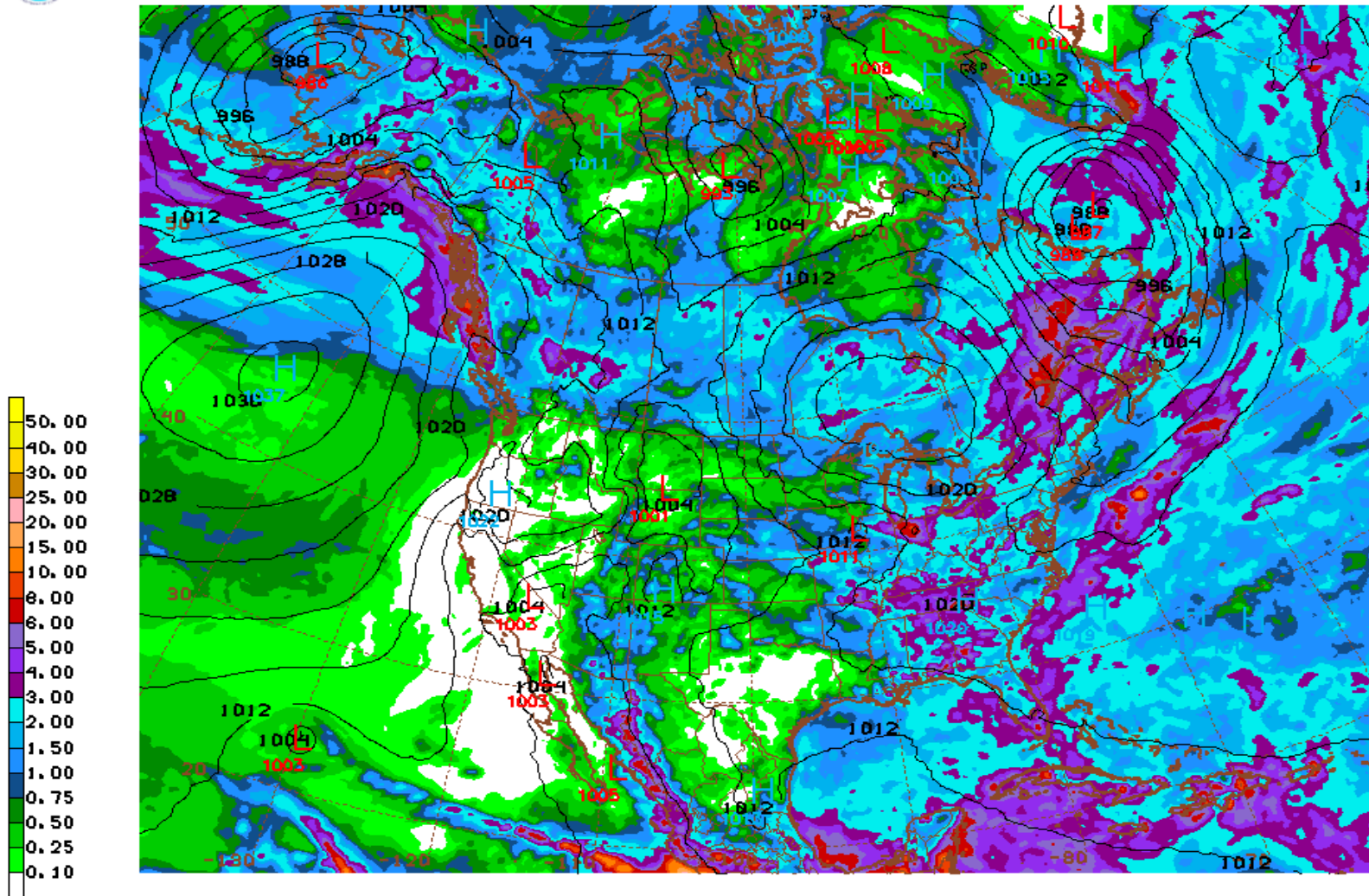
Cumulative Precipitation Comparison of Current Year versus Historic Record



Global Forecast System Model 16-day Cumulative Precipitation Forecast



6FS 08/07/23 12UTC 384HR FCST VALID WED 08/23/23 12UTC NOAA/NWS/NCEP



6FS WED 230823/1200V384 EMSL (4MB), 384HR ACCUMULATED PRECIP (IN)

Date Range
Aug 7 - Aug 23, 2023

Forecasted Cumulative (inches)
0.00