



**State Water Resources Control Board  
 Temporary Urgency Change Order (5/19/2023)  
 Russian River Hydrologic Report  
 July 21, 2023 - July 27, 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).

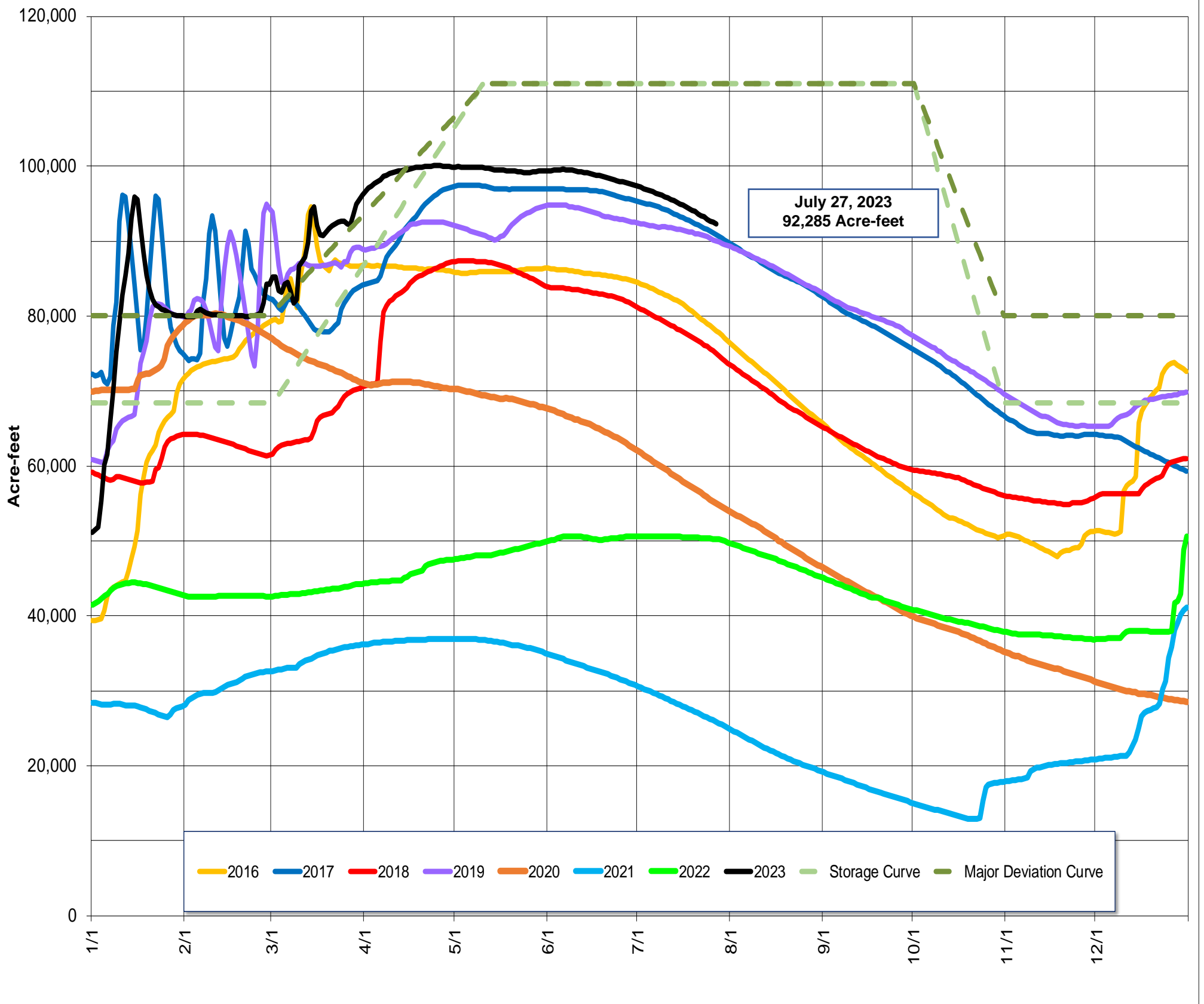
**Instream Flow Requirements as of July 27, 2023**

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

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**



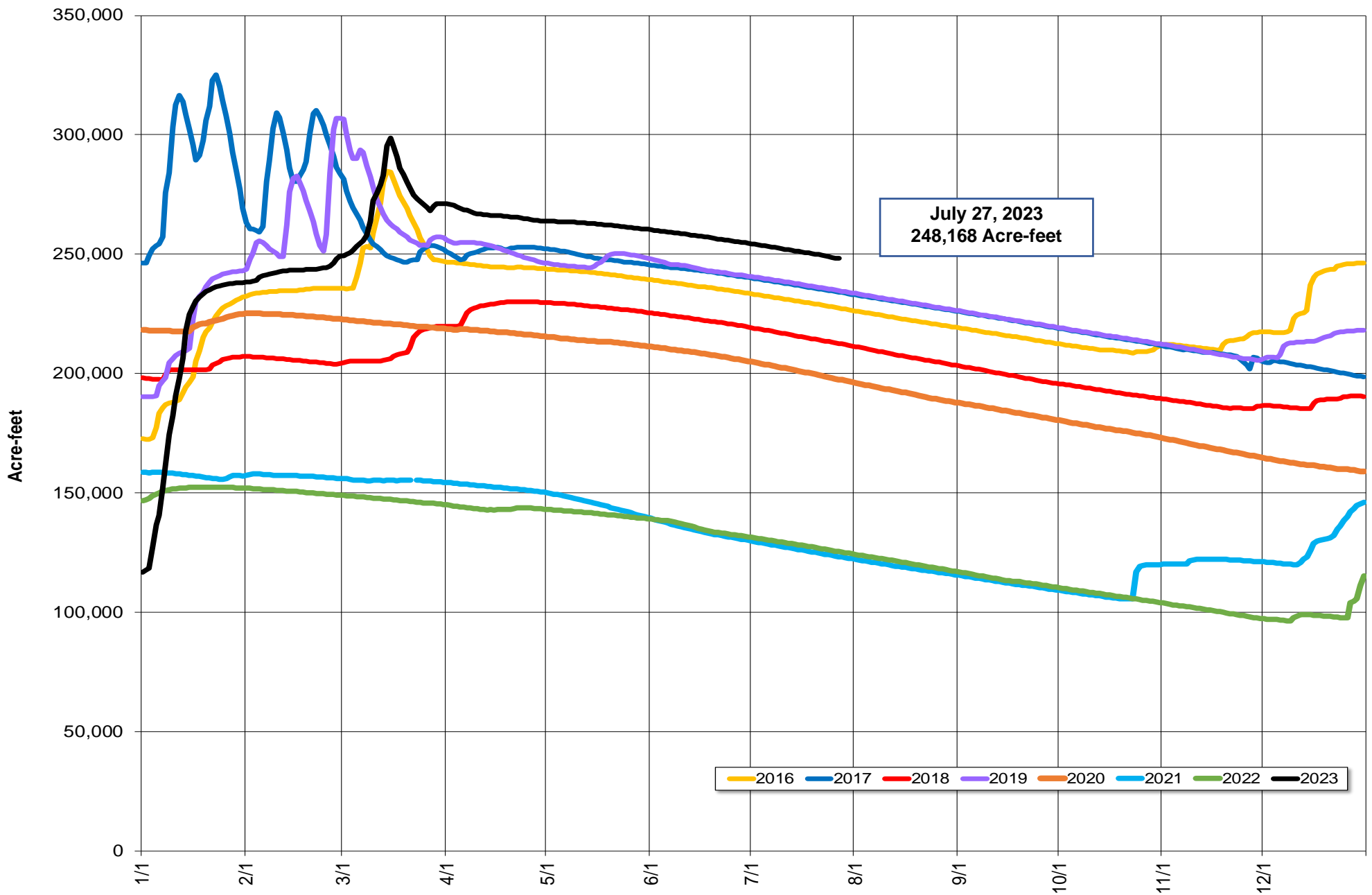
Storage (acre-feet)	July 27, 2023	<b>92,285</b>	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	<b>-5,473</b>	<b>-182</b>
	Last 7 days	<b>-1,377</b>	<b>-197</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>49</b>
		Max	<b>88</b>
		Mean	<b>72</b>
Release (cfs)	Last 7 days	Min	<b>169</b>
		Max	<b>177</b>
		Mean	<b>174</b>

# Lake Sonoma



Nathan Baskett, March 3, 2011

## Lake Sonoma Storage 2016-2023



Storage (acre-feet)	July 27, 2023	248,168	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	-7,039	-235
	Last 7 days	-1,654	-236
Daily Inflow (cfs)	Last 7 days	Min	0
		Max	0
		Mean	0
Release (cfs)	Last 7 days	Min	93
		Max	108
		Mean	102

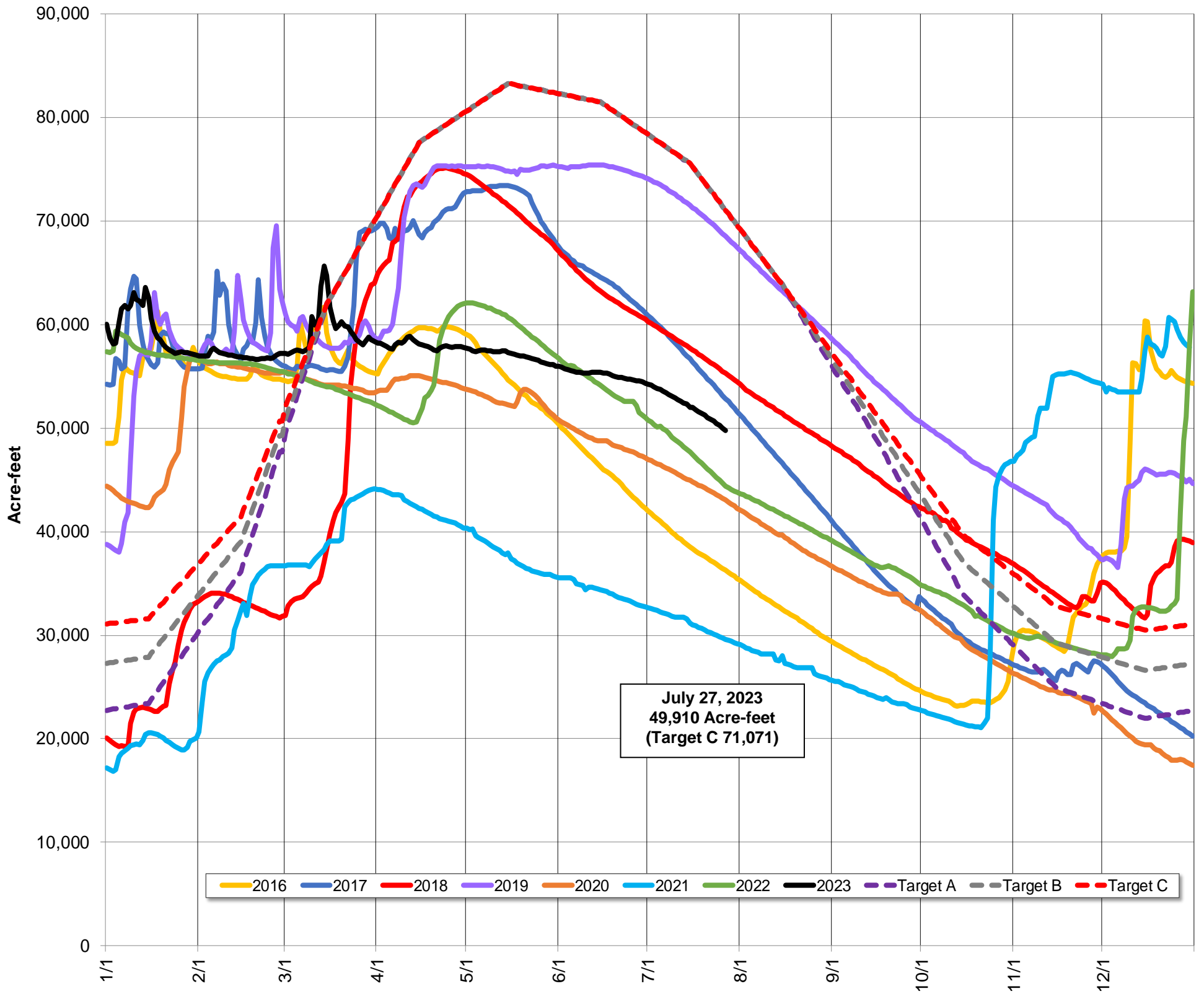
# Potter Valley Project

PVP Diversion (cfs)	July 27, 2023	102
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2022 - July 27, 2023	619,233	2,064
	Last 7 days	567	81

\*Inflow calculation based on criteria established in D1610

## Lake Pillsbury Storage 2016 - 2023 and Target Storage Scenarios

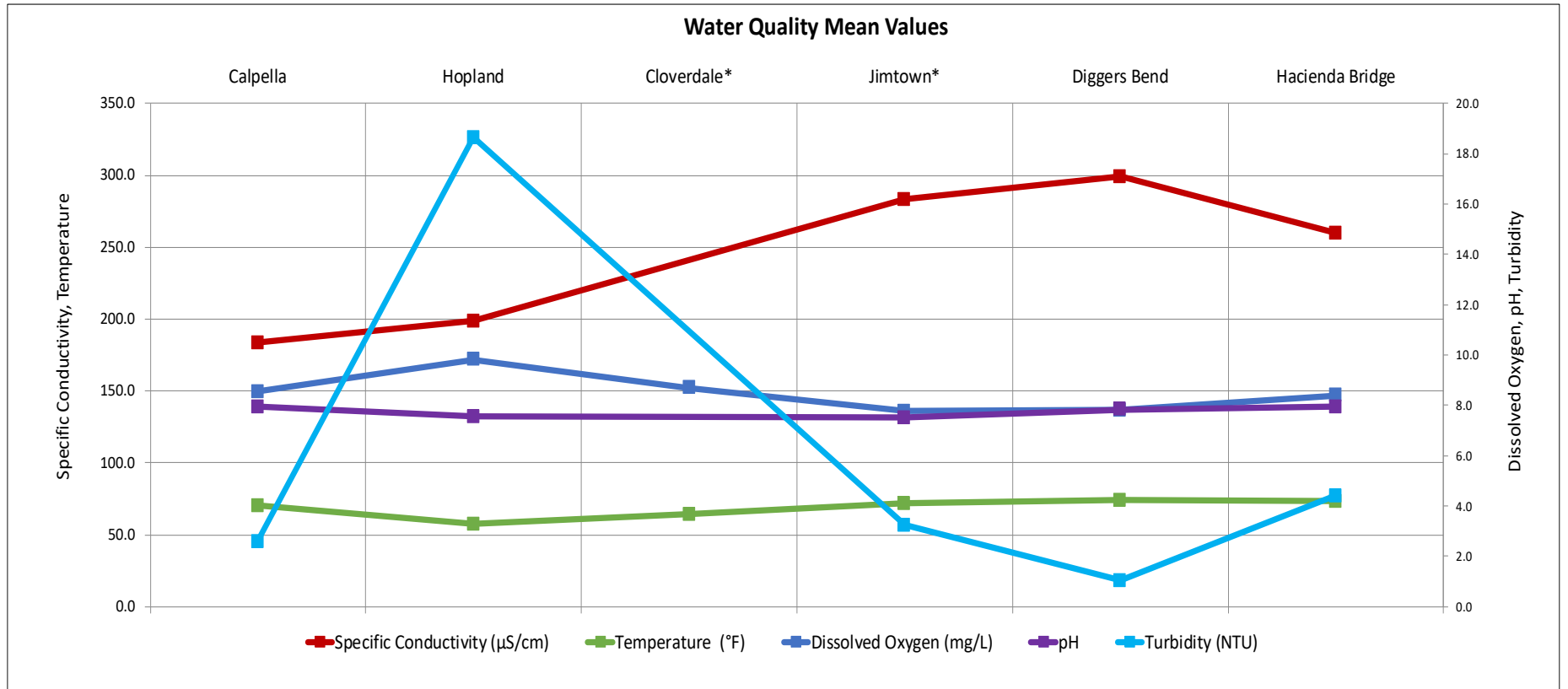




## Russian River Flows (July 21, 2023 - July 27, 2023)

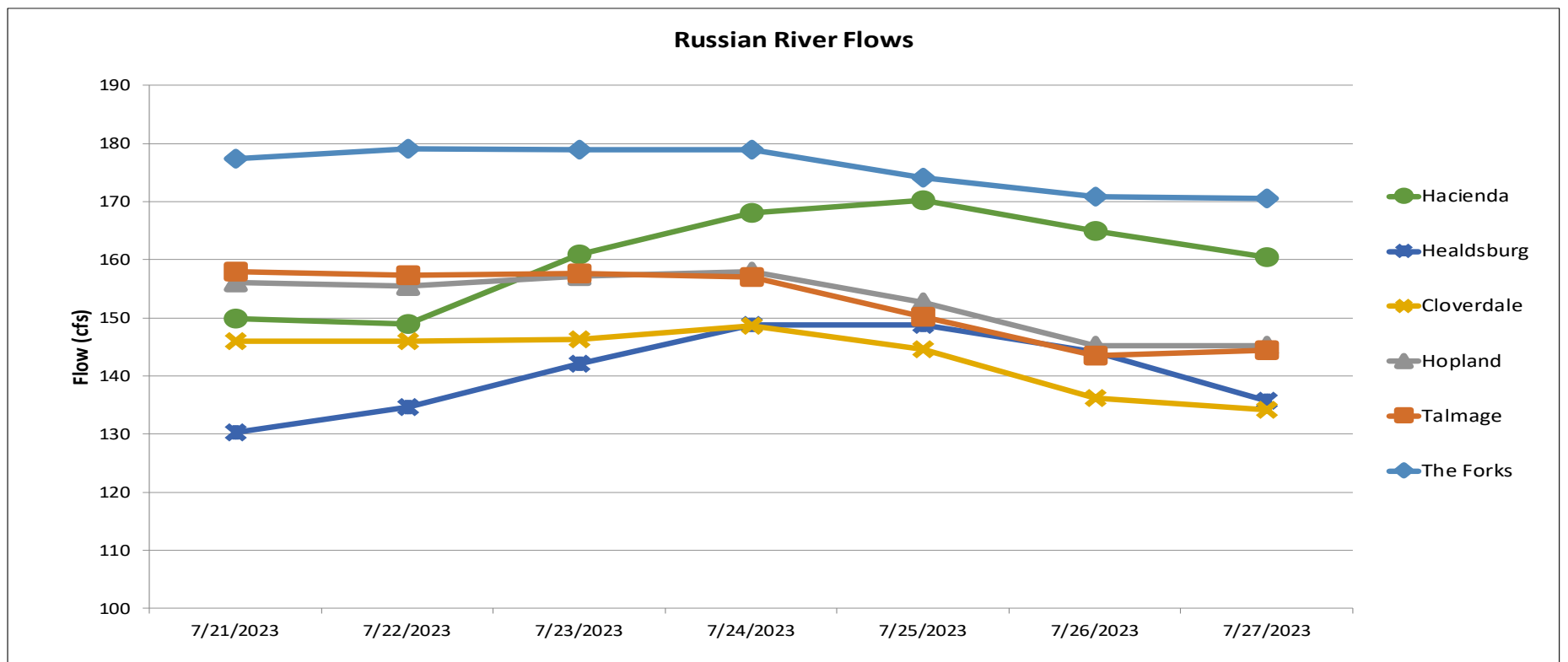
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	67.3	55.6	61.0	67.6	70.2		69.8	
	Max	73.0	59.9	68.0	76.5	78.6		77.0	
	Mean	70.1	57.5	64.0	71.7	74.1		73.3	
Specific Conductivity (µS/cm)	Min	180.0	186.0		277.0	293.0		250.0	
	Max	187.0	207.0		293.0	308.0		268.0	
	Mean	183.4	198.7		283.3	299.3		260.0	
Dissolved Oxygen (mg/L)	Min	8.0	9.2	7.5	6.4	7.0		6.8	
	Max	9.4	10.6	10.1	9.6	8.6		9.5	
	Mean	8.5	9.8	8.7	7.8	7.8		8.4	
Dissolved Oxygen (% Saturation)	Min	90.8	88.8	78.4	71.3	79.1		77.6	
	Max	106.6	104.7	110.2	115.3	105.5		114.1	
	Mean	96.2	95.5	91.6	89.1	91.9		97.9	
pH	Min	7.8	7.4		7.4	7.7		7.6	
	Max	8.2	7.8		7.7	8.0		8.2	
	Mean	7.9	7.6		7.5	7.8		7.9	
Turbidity (NTU)	Min	1.7	15.6		2.4	0.6		3.3	
	Max	3.8	21.7		4.2	1.9		6.1	
	Mean	2.6	18.7		3.2	1.0		4.4	

\*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	Jul 21, 2023	Jul 22, 2023	Jul 23, 2023	Jul 24, 2023	Jul 25, 2023	Jul 26, 2023	Jul 27, 2023
The Forks*	177	179	179	179	174	171	171
Talmage USGS 11462080	158	157	158	157	150	143	144
Hopland USGS 11462500	156	155	157	158	153	145	145
Cloverdale USGS 11463000	146	146	146	149	145	136	134
Healdsburg USGS 11464000	130	135	142	149	149	144	136
Hacienda USGS 11467000	150	149	161	168	170	165	161

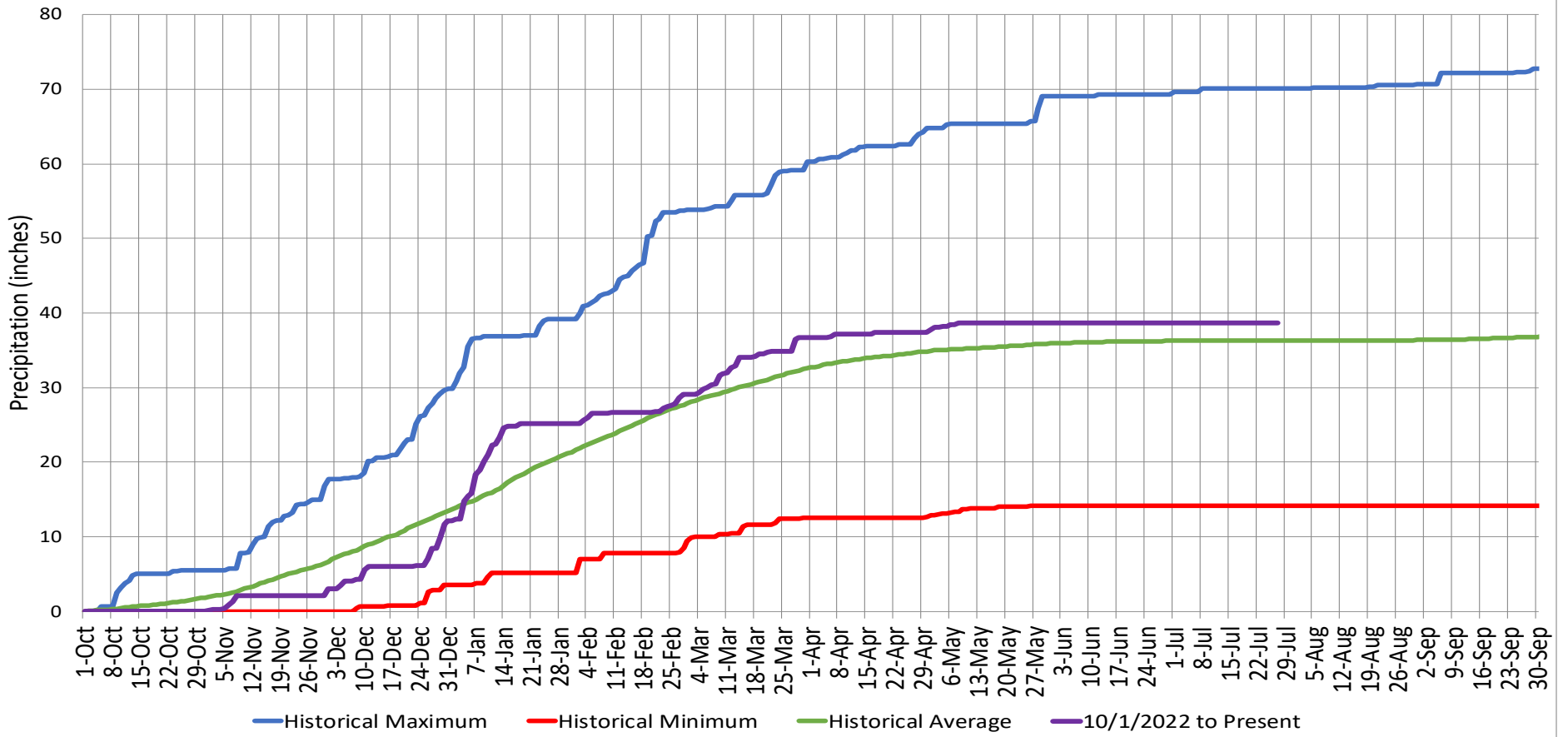
\*West Fork(USGS 11461000) + East Fork (Coyote Valley Dam Release)



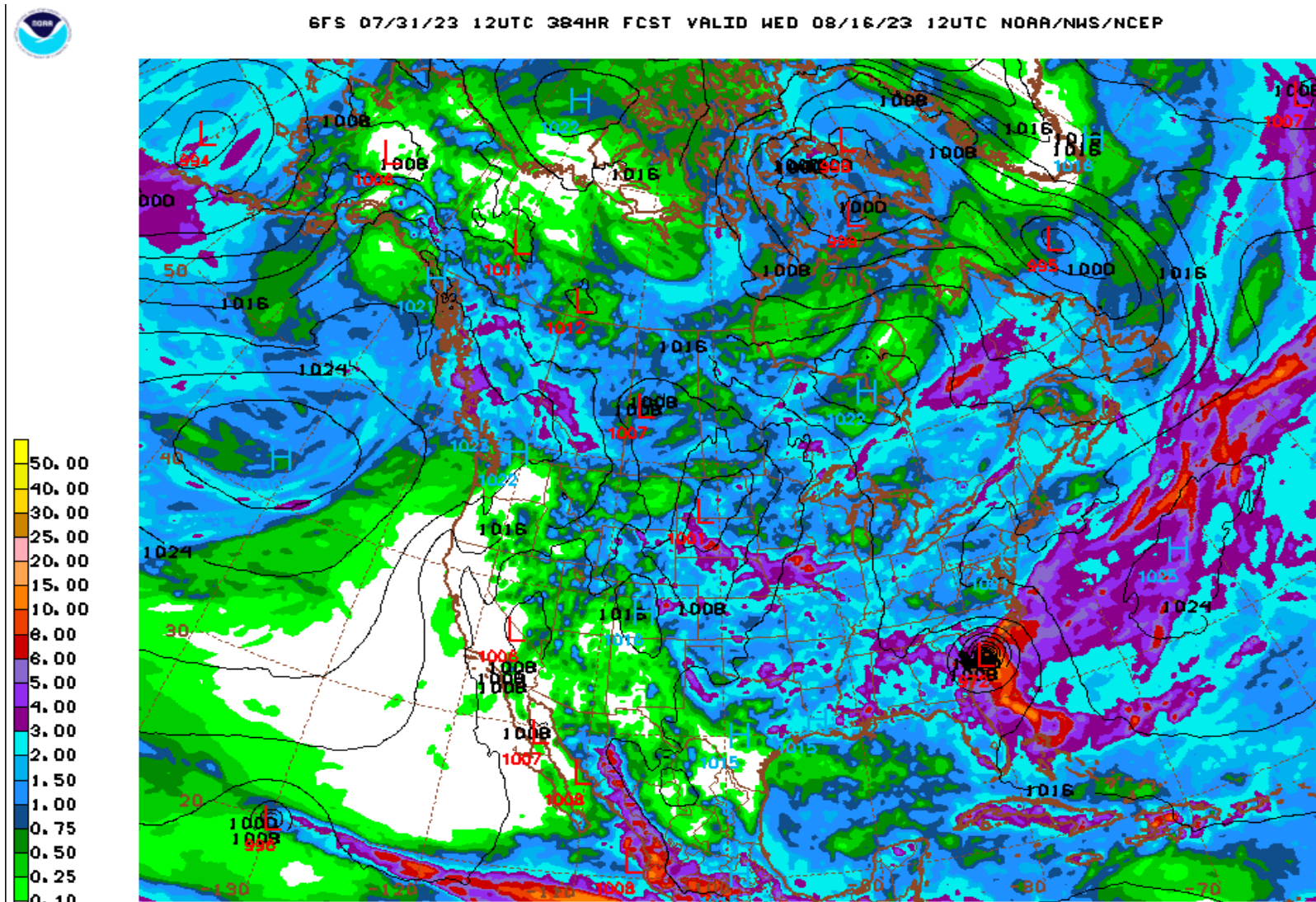
# Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2022 - Jul 27, 2023	<b>38.64</b>
Last 7 Days*	<b>0.00</b>

Cumulative Precipitation Comparison of Current Year versus Historic Record



## Global Forecast System Model 16-day Cumulative Precipitation Forecast



Date Range	Forecasted Cumulative (inches)
Jul 31 - Aug 16, 2023	<b>0.00</b>