



**State Water Resources Control Board  
 Temporary Urgency Change Order (5/19/2023)  
 Russian River Hydrologic Report  
 August 11, 2023 - August 17, 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).

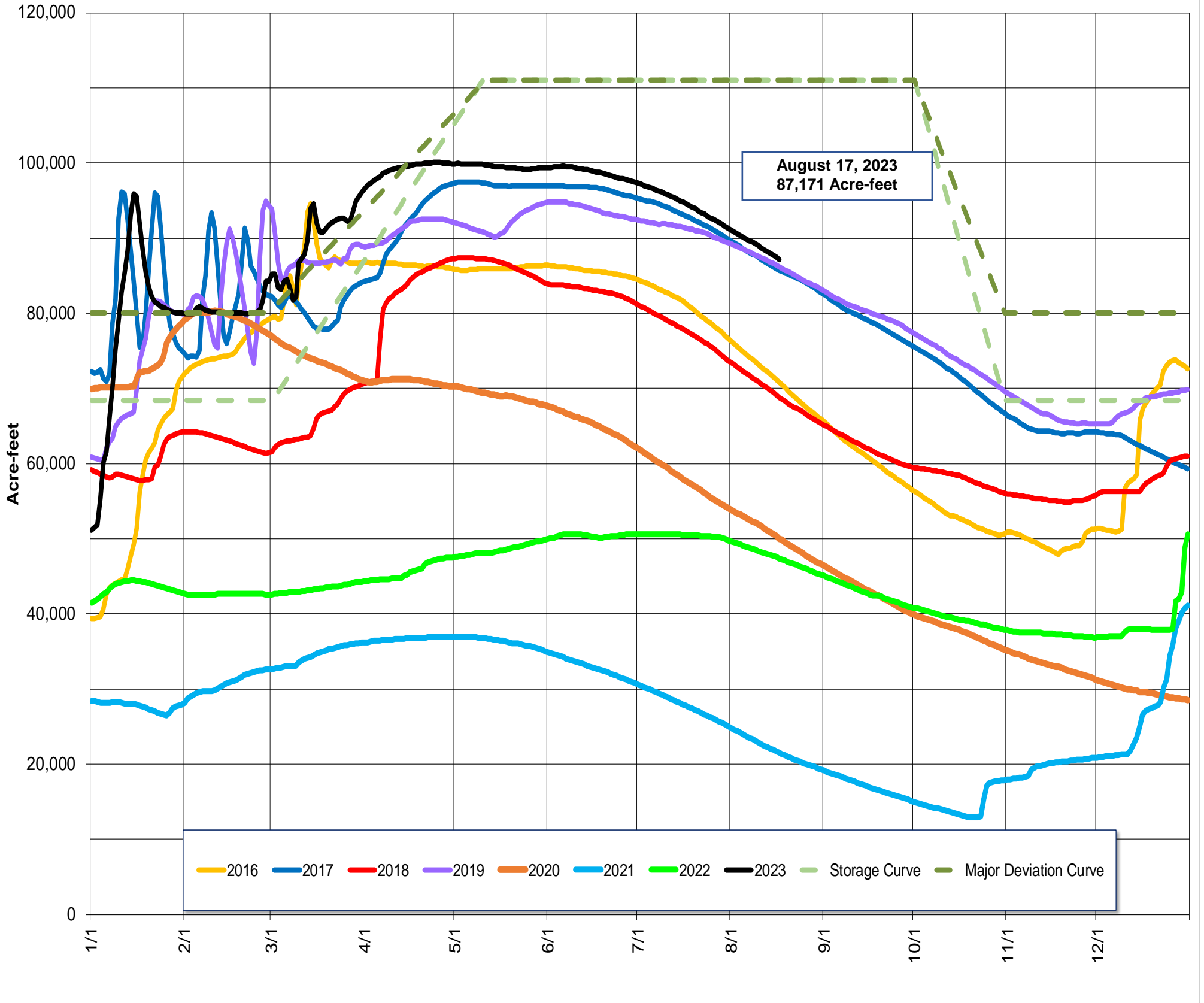
**Instream Flow Requirements as of August 17, 2023**

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**



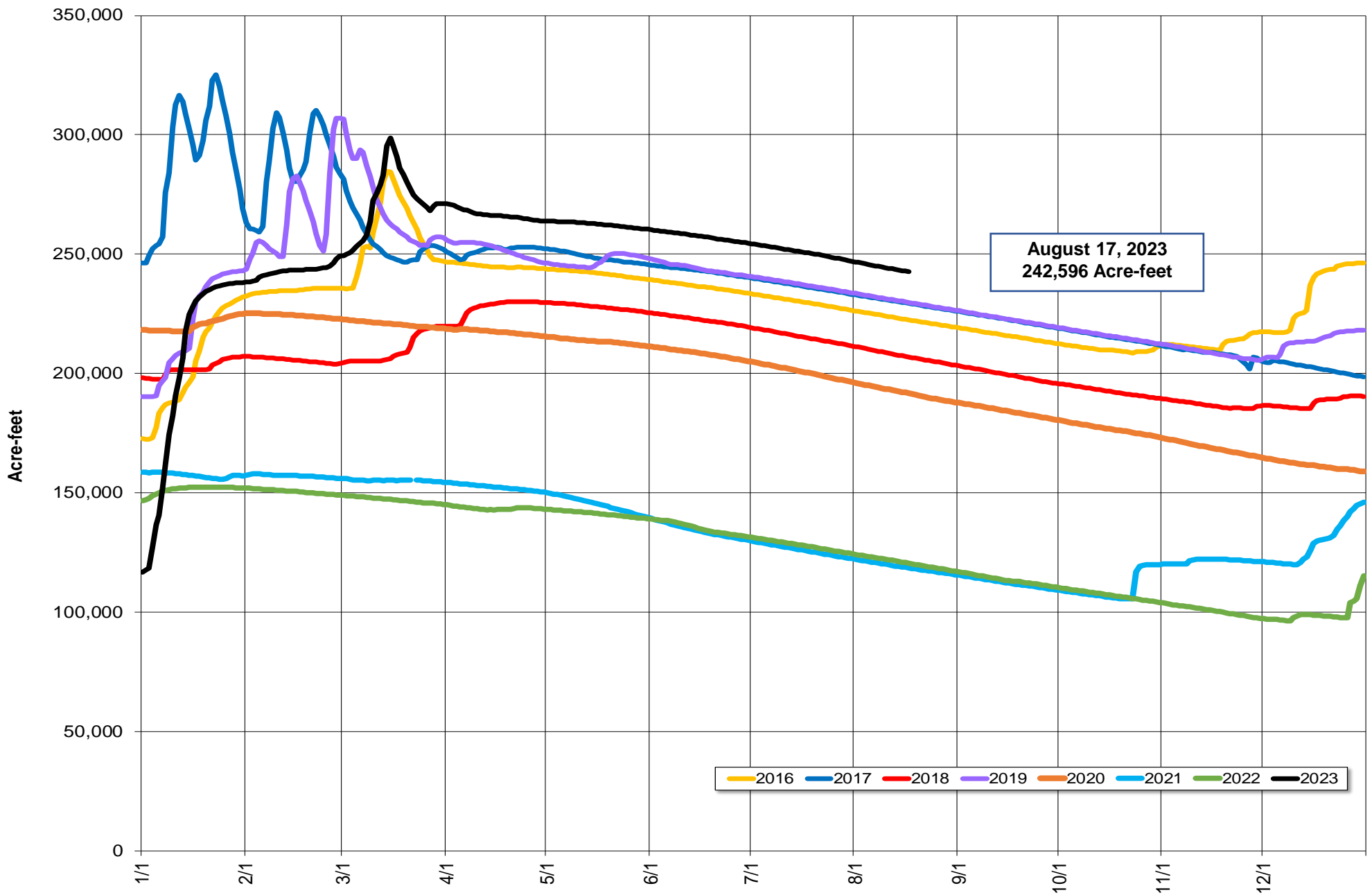
Storage (acre-feet)	August 17, 2023	<b>87,174</b>	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	<b>-7,177</b>	<b>-239</b>
	Last 7 days	<b>-1,559</b>	<b>-223</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>79</b>
		Max	<b>97</b>
		Mean	<b>87</b>
Release (cfs)	Last 7 days	Min	<b>201</b>
		Max	<b>205</b>
		Mean	<b>203</b>

# Lake Sonoma



Nathan Baskett, March 3, 2011

## Lake Sonoma Storage 2016-2023



Storage (acre-feet)	August 17, 2023	<b>242,596</b>	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	<b>-7,895</b>	<b>-263</b>
	Last 7 days	<b>-1,523</b>	<b>-218</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>0</b>
		Max	<b>10</b>
		Mean	<b>3</b>
Release (cfs)	Last 7 days	Min	<b>107</b>
		Max	<b>107</b>
		Mean	<b>107</b>

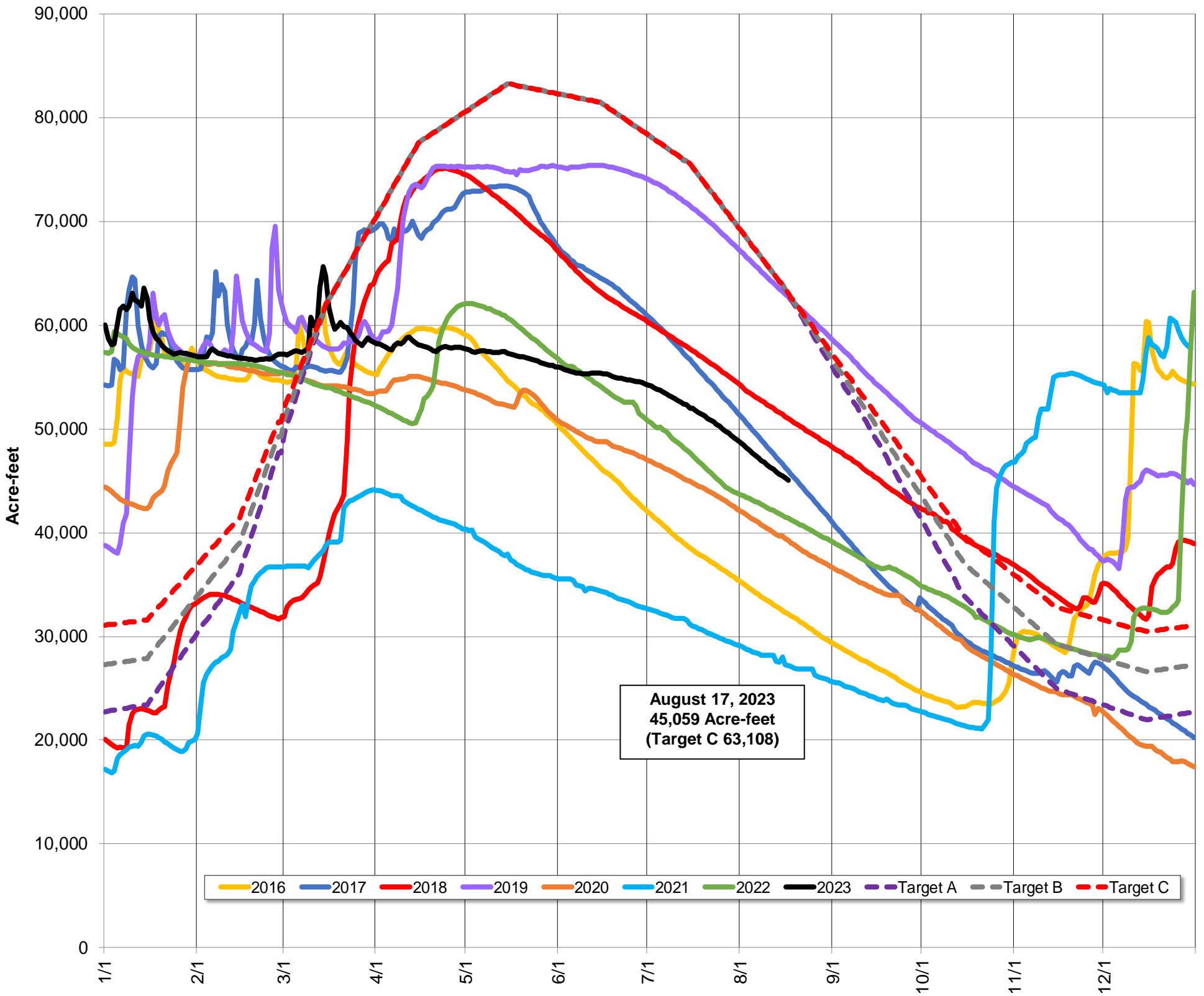
# Potter Valley Project

PVP Diversion (cfs)	August 17, 2023	107
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2022 - August 17, 2023	620,714	1,934
	Last 7 days	476	68

\*Inflow calculation based on criteria established in D1610

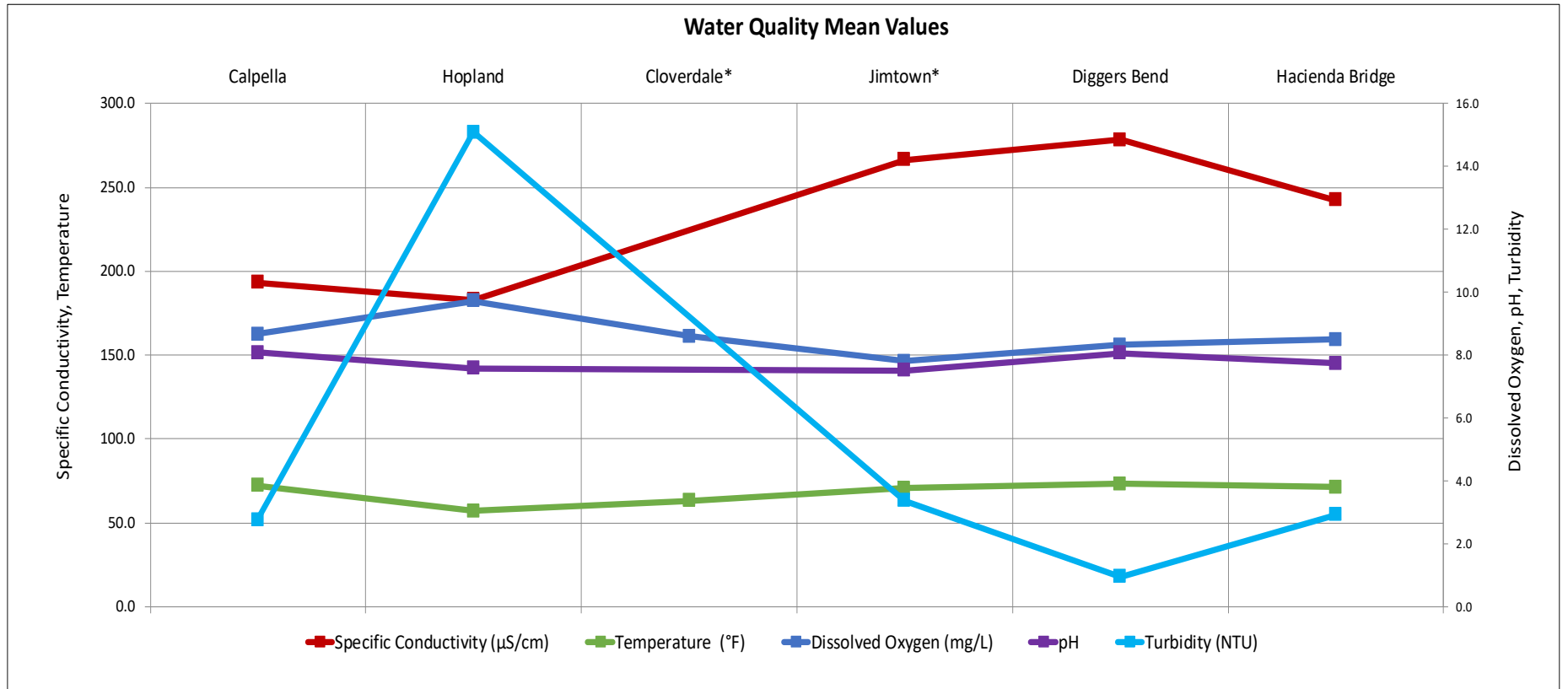
## Lake Pillsbury Storage 2016 - 2023 and Target Storage Scenarios



## Russian River Flows (August 11, 2023 - August 17, 2023)

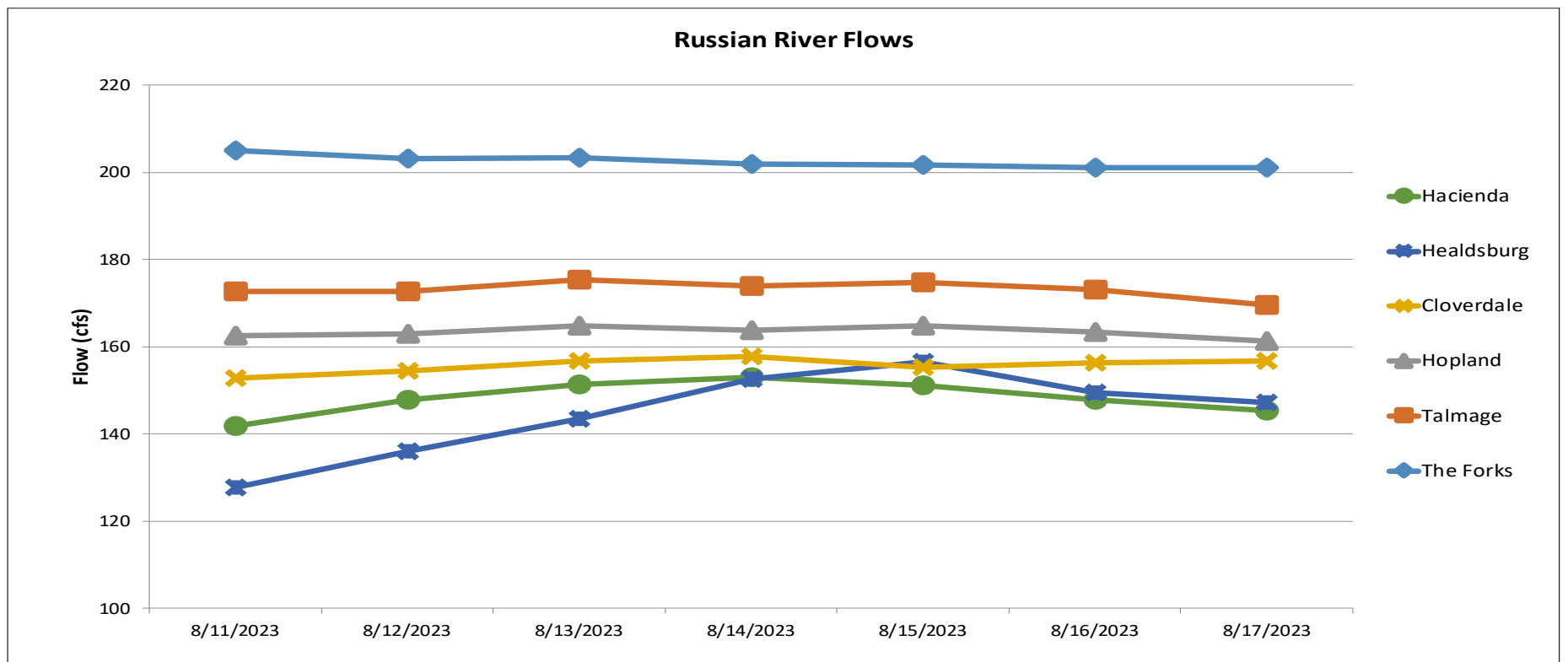
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	68.9	54.3	60.4	66.9	69.4		68.2	
	Max	75.9	59.4	66.9	74.8	77.4		74.7	
	Mean	72.2	57.0	63.1	70.6	73.2		71.2	
Specific Conductivity (µS/cm)	Min	191.0	181.0		263.0	273.0		240.0	
	Max	196.0	184.0		275.0	286.0		249.0	
	Mean	193.3	183.0		266.5	278.4		242.6	
Dissolved Oxygen (mg/L)	Min	8.1	9.1	7.6	6.6	7.0		7.1	
	Max	9.4	10.5	10.2	9.6	9.5		9.6	
	Mean	8.7	9.7	8.6	7.8	8.3		8.5	
Dissolved Oxygen (% Saturation)	Min	95.2	88.3	78.0	73.2	79.8		79.4	
	Max	108.7	103.0	108.8	112.3	114.8		113.4	
	Mean	99.7	94.1	89.5	88.4	97.0		96.8	
pH	Min	8.0	7.5		7.4	7.7		7.5	
	Max	8.3	7.7		7.8	8.4		8.0	
	Mean	8.1	7.6		7.5	8.1		7.7	
Turbidity (NTU)	Min	1.8	13.7		2.7	0.5		2.1	
	Max	4.3	18.3		7.2	1.6		4.2	
	Mean	2.8	15.1		3.4	0.9		2.9	

\*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	Aug 11, 2023	Aug 12, 2023	Aug 13, 2023	Aug 14, 2023	Aug 15, 2023	Aug 16, 2023	Aug 17, 2023
The Forks*	205	203	203	202	202	201	201
Talmage USGS 11462080	173	173	175	174	175	173	170
Hopland USGS 11462500	163	163	165	164	165	163	161
Cloverdale USGS 11463000	153	154	157	158	155	156	157
Healdsburg USGS 11464000	128	136	143	153	157	149	147
Hacienda USGS 11467000	142	148	151	153	151	148	145

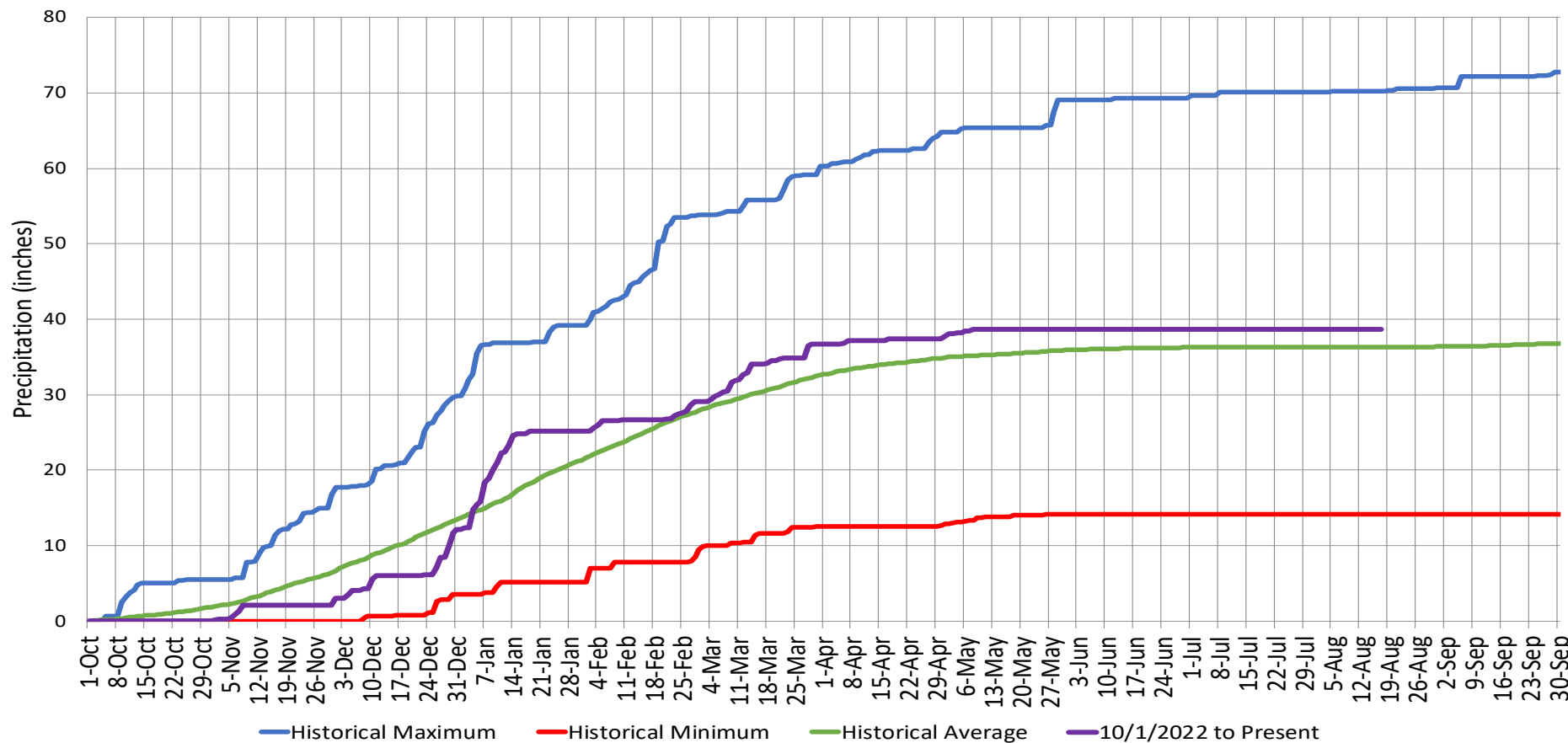
\*West Fork(USGS 11461000) + East Fork (Coyote Valley Dam Release)



## Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2022 - Aug 17, 2023	<b>38.64</b>
Last 7 Days*	<b>0.00</b>

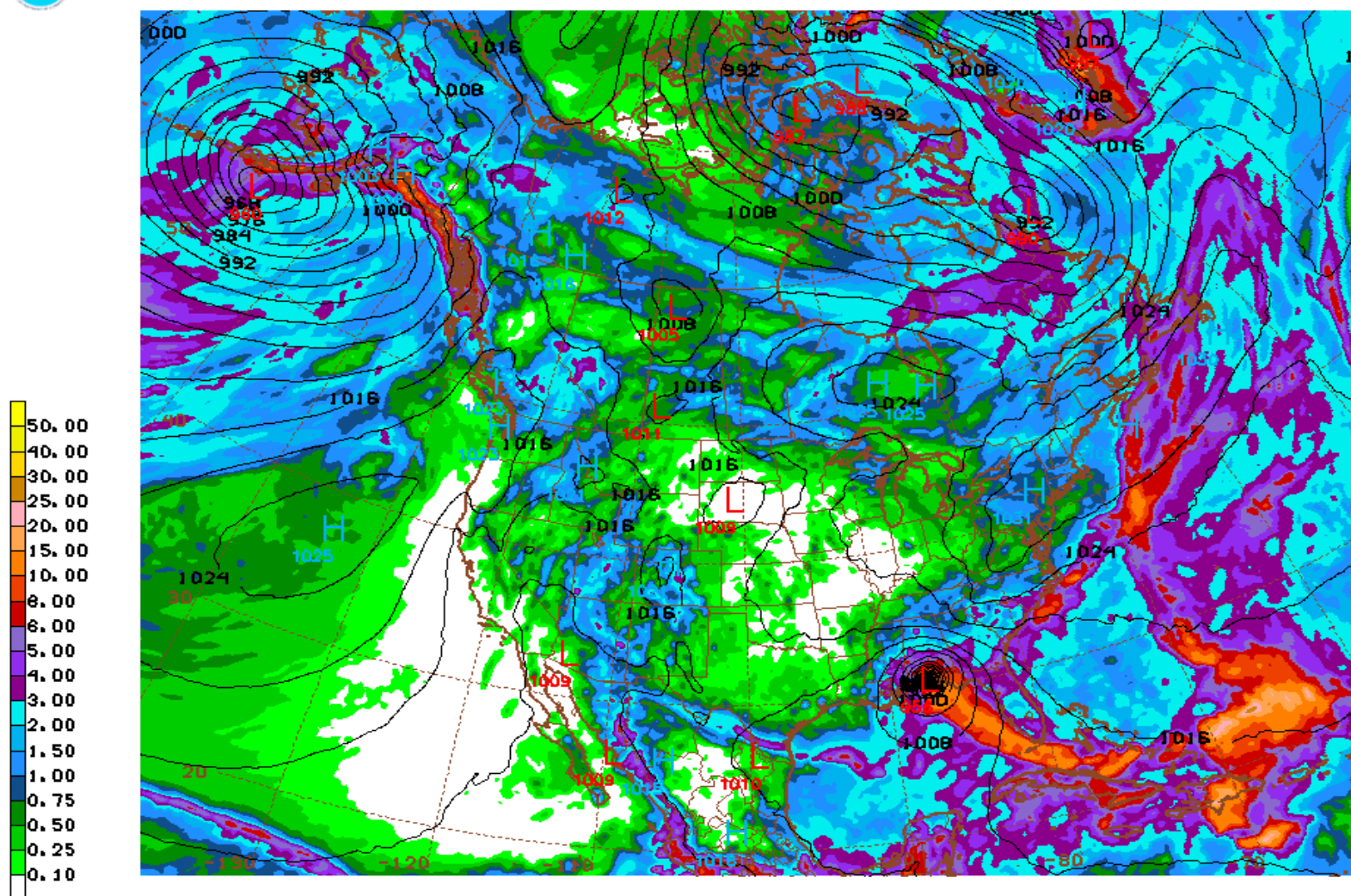
Cumulative Precipitation Comparison of Current Year versus Historic Record



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



6FS 08/21/23 12UTC 384HR FCST VALID WED 09/06/23 12UTC NOAA/NWS/NCEP



6FS WED 230906/1200Y384 EMSL (4MB), 384HR ACCUMULATED PRECIP (IN)

Date Range  
Aug 21 - Sep 6, 2023

Forecasted Cumulative (inches)  
**0.00**