



**State Water Resources Control Board  
 Temporary Urgency Change Order (5/19/2023)  
 Russian River Hydrologic Report  
 August 18, 2023 - August 24, 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).

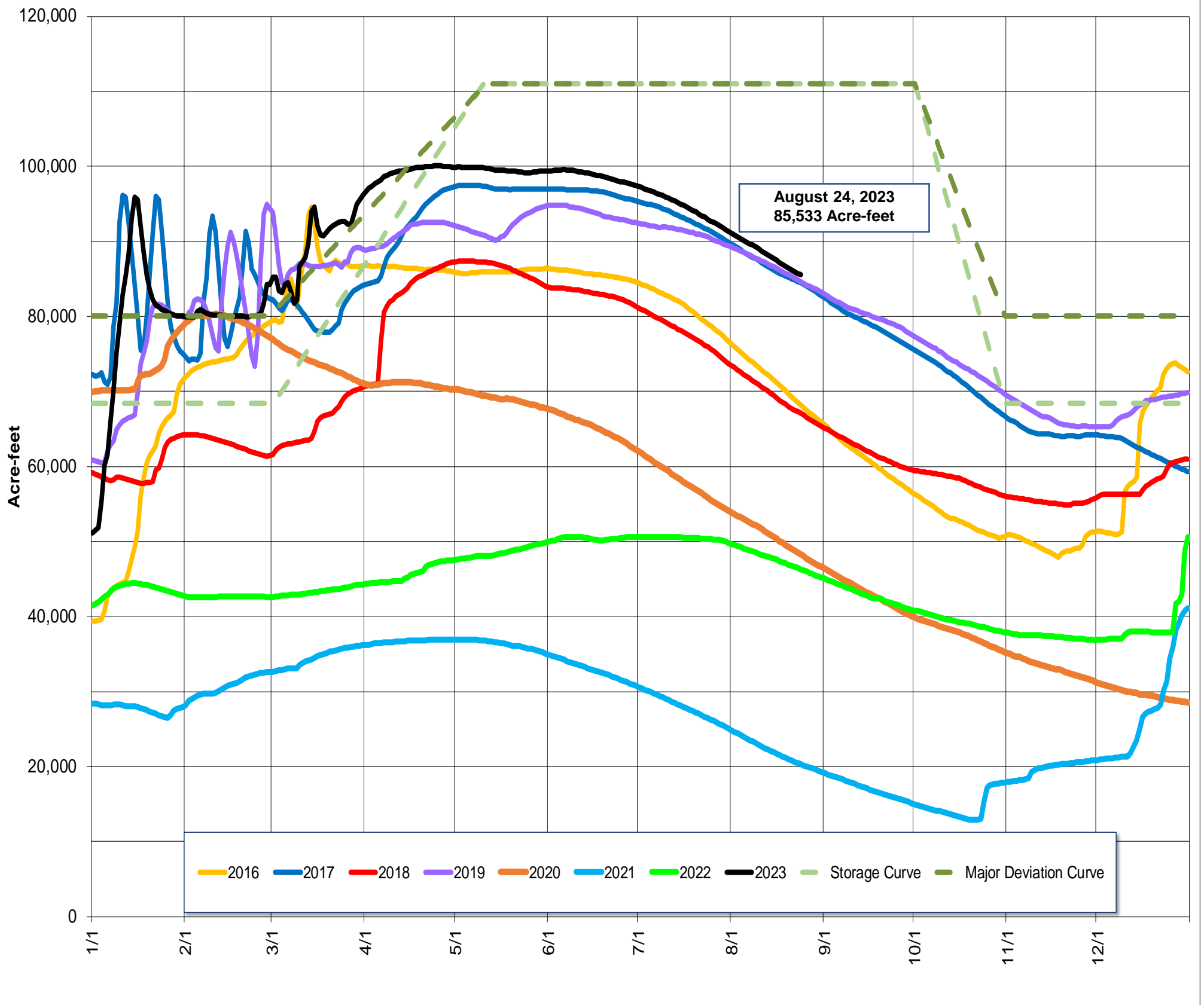
**Instream Flow Requirements as of August 24, 2023**

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**



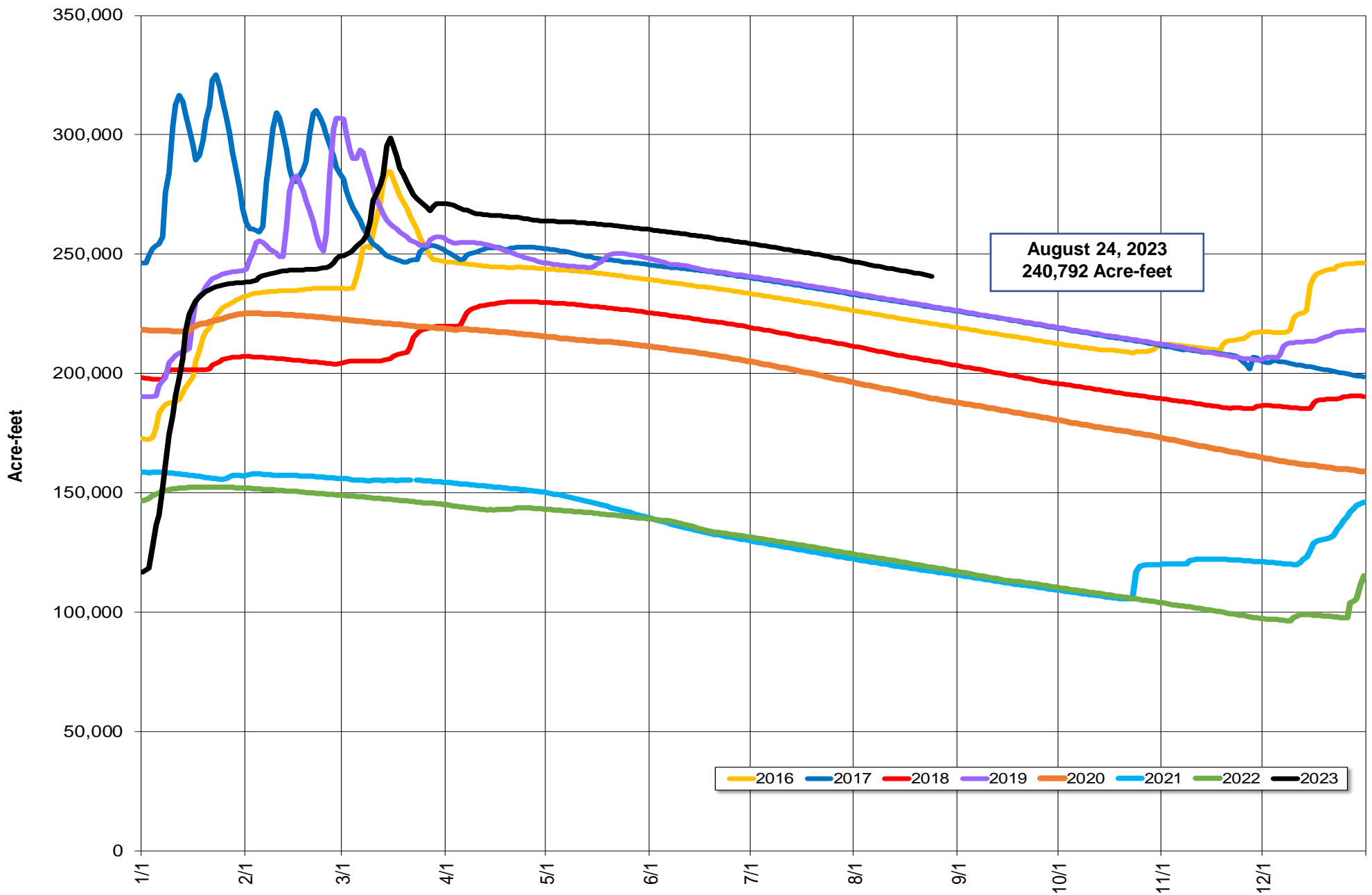
Storage (acre-feet)	August 24, 2023	<b>85,533</b>	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	<b>-7,158</b>	<b>-239</b>
	Last 7 days	<b>-1,397</b>	<b>-200</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>78</b>
		Max	<b>105</b>
		Mean	<b>93</b>
Release (cfs)	Last 7 days	Min	<b>193</b>
		Max	<b>201</b>
		Mean	<b>198</b>

# Lake Sonoma



Nathan Baskett, March 3, 2011

## Lake Sonoma Storage 2016-2023



Storage (acre-feet)	August 24, 2023	<b>240,792</b>	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	<b>-7,909</b>	<b>-264</b>
	Last 7 days	<b>-1,568</b>	<b>-224</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>108</b>
		Max	<b>108</b>
		Mean	<b>108</b>

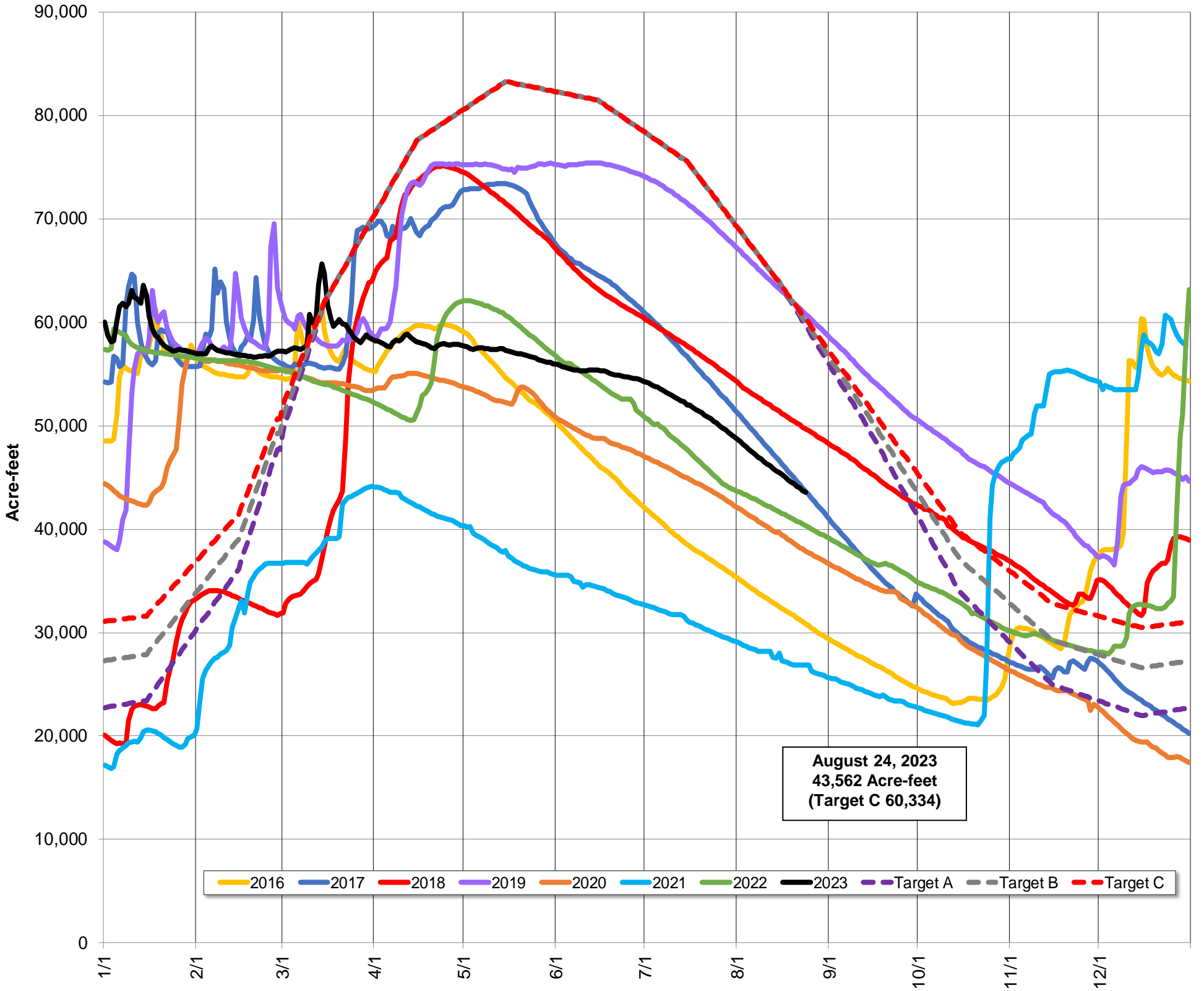
# Potter Valley Project

PVP Diversion (cfs)	August 24, 2023	105
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2022 - August 24, 2023	621,212	1,894
	Last 7 days	434	62

\*Inflow calculation based on criteria established in D1610

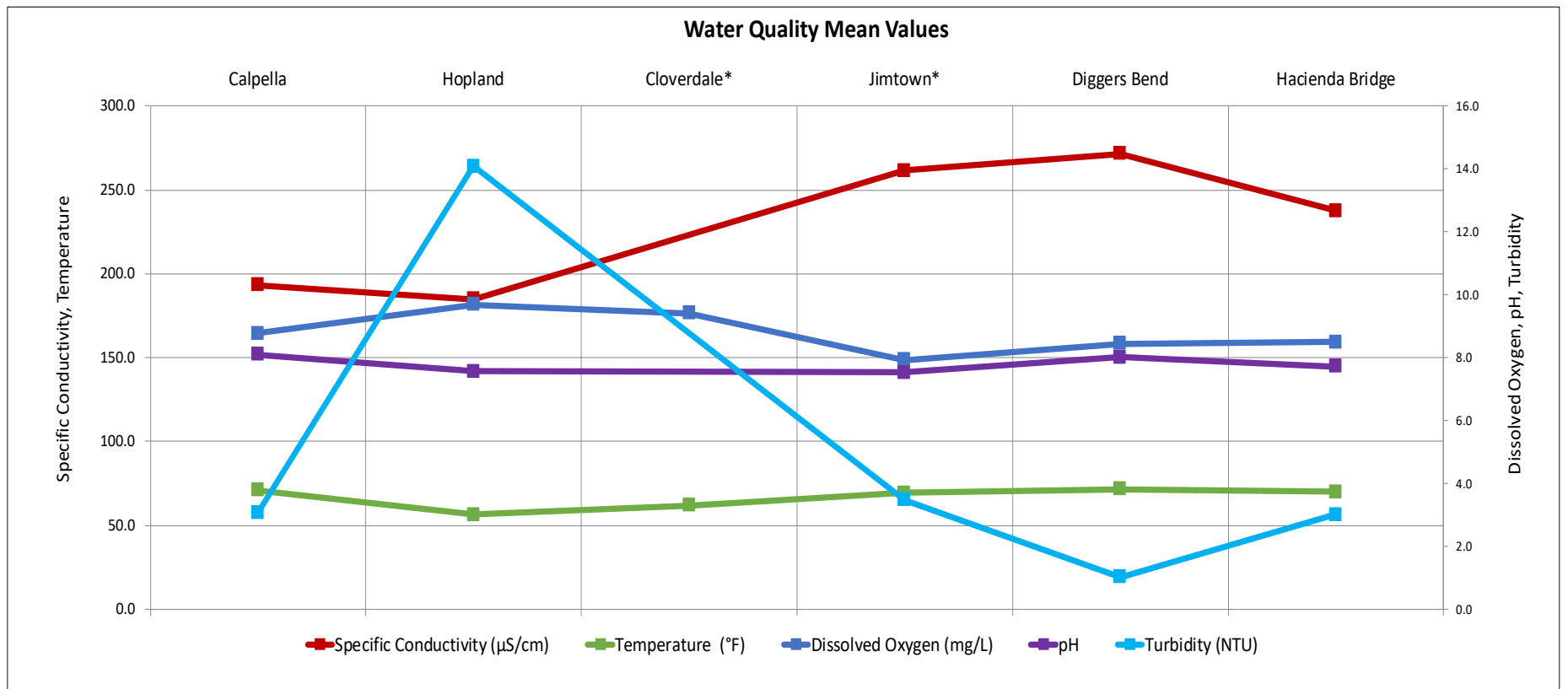
## Lake Pillsbury Storage 2016 - 2023 and Target Storage Scenarios



## Russian River Flows (August 18, 2023 - August 24, 2023)

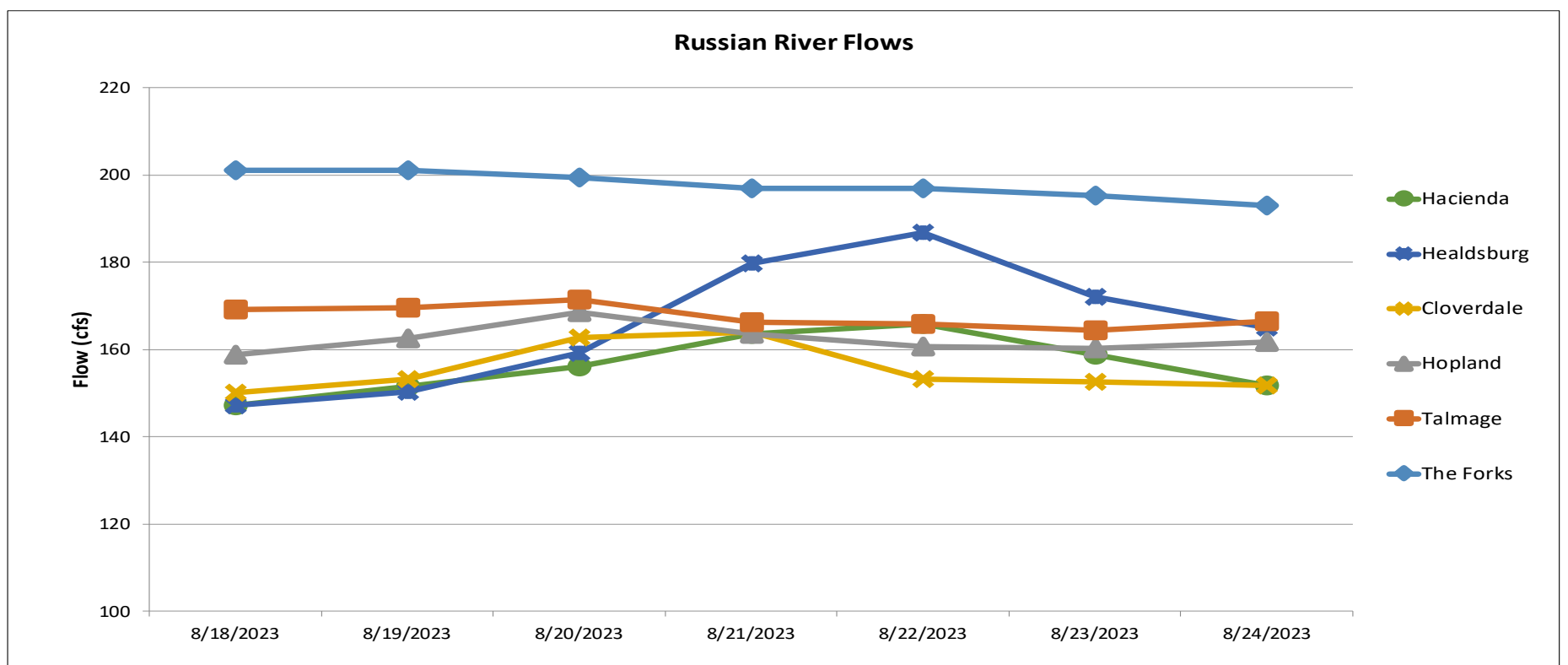
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	67.5	53.8	57.7	65.5	68.0		66.7	
	Max	74.8	59.0	66.4	73.6	75.7		73.4	
	Mean	71.1	56.5	61.7	69.2	71.6		69.9	
Specific Conductivity (µS/cm)	Min	191.0	183.0		256.0	266.0		235.0	
	Max	197.0	186.0		267.0	275.0		240.0	
	Mean	193.4	185.0		261.5	271.5		237.6	
Dissolved Oxygen (mg/L)	Min	8.2	9.1	8.4	6.6	6.9		7.2	
	Max	9.6	10.4	10.7	10.0	10.8		9.8	
	Mean	8.8	9.7	9.4	7.9	8.4		8.5	
Dissolved Oxygen (% Saturation)	Min	95.2	88.1	87.0	73.3	77.7		81.0	
	Max	108.0	102.7	112.4	115.2	128.8		114.2	
	Mean	99.7	93.1	96.3	88.5	96.7		95.5	
pH	Min	8.0	7.5		7.4	7.6		7.5	
	Max	8.3	7.8		7.8	8.6		8.0	
	Mean	8.1	7.6		7.5	8.0		7.7	
Turbidity (NTU)	Min	1.6	12.8		2.7	0.7		2.3	
	Max	5.7	15.7		4.5	1.7		4.2	
	Mean	3.0	14.1		3.5	1.0		3.0	

\*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	Aug 18, 2023	Aug 19, 2023	Aug 20, 2023	Aug 21, 2023	Aug 22, 2023	Aug 23, 2023	Aug 24, 2023
The Forks*	201	201	199	197	197	195	193
Talmage USGS 11462080	169	170	171	166	166	164	166
Hopland USGS 11462500	159	163	169	164	161	160	162
Cloverdale USGS 11463000	150	153	163	164	153	153	152
Healdsburg USGS 11464000	147	150	159	180	187	172	165
Hacienda USGS 11467000	147	152	156	164	166	159	152

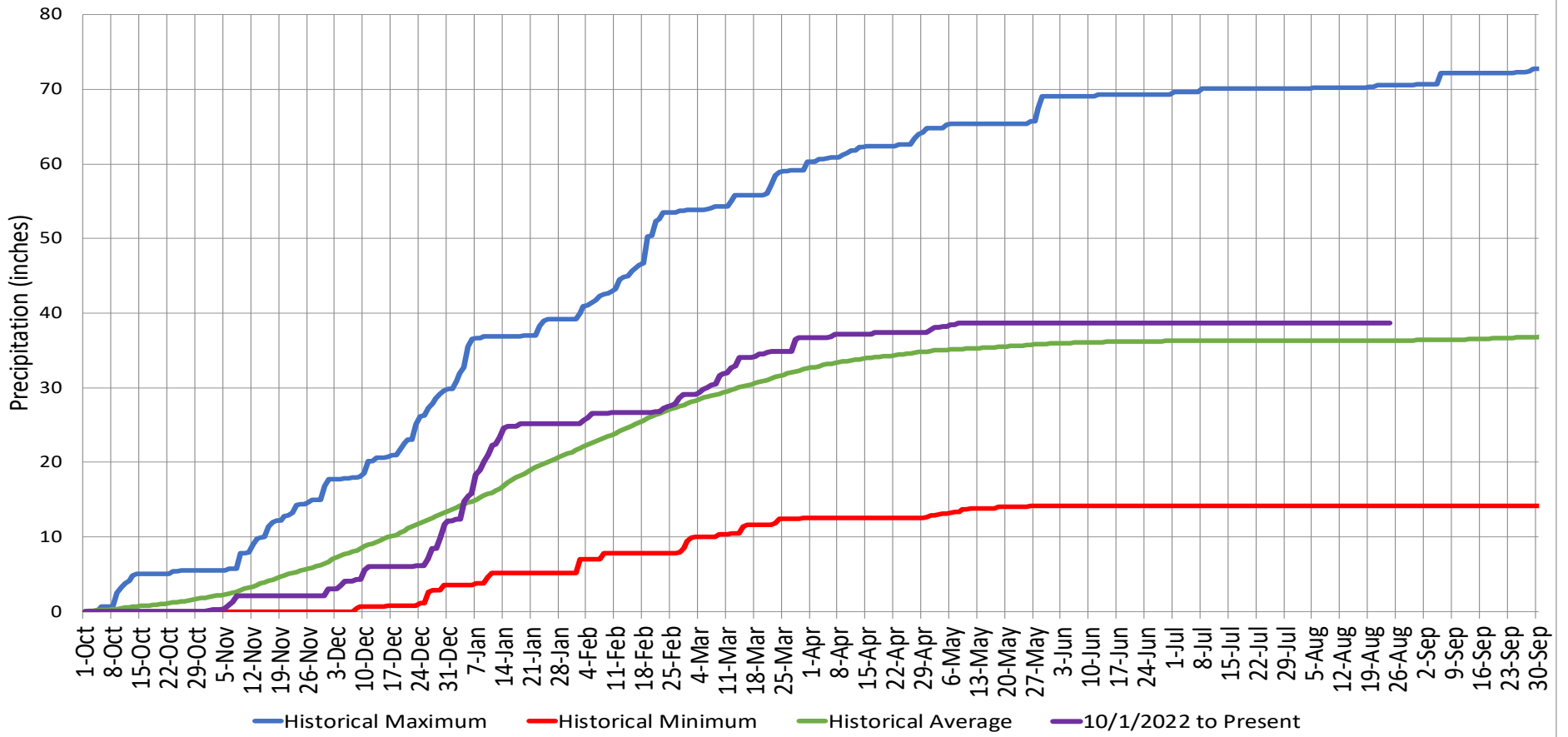
\*West Fork(USGS 11461000) + East Fork (Coyote Valley Dam Release)



# Precipitation

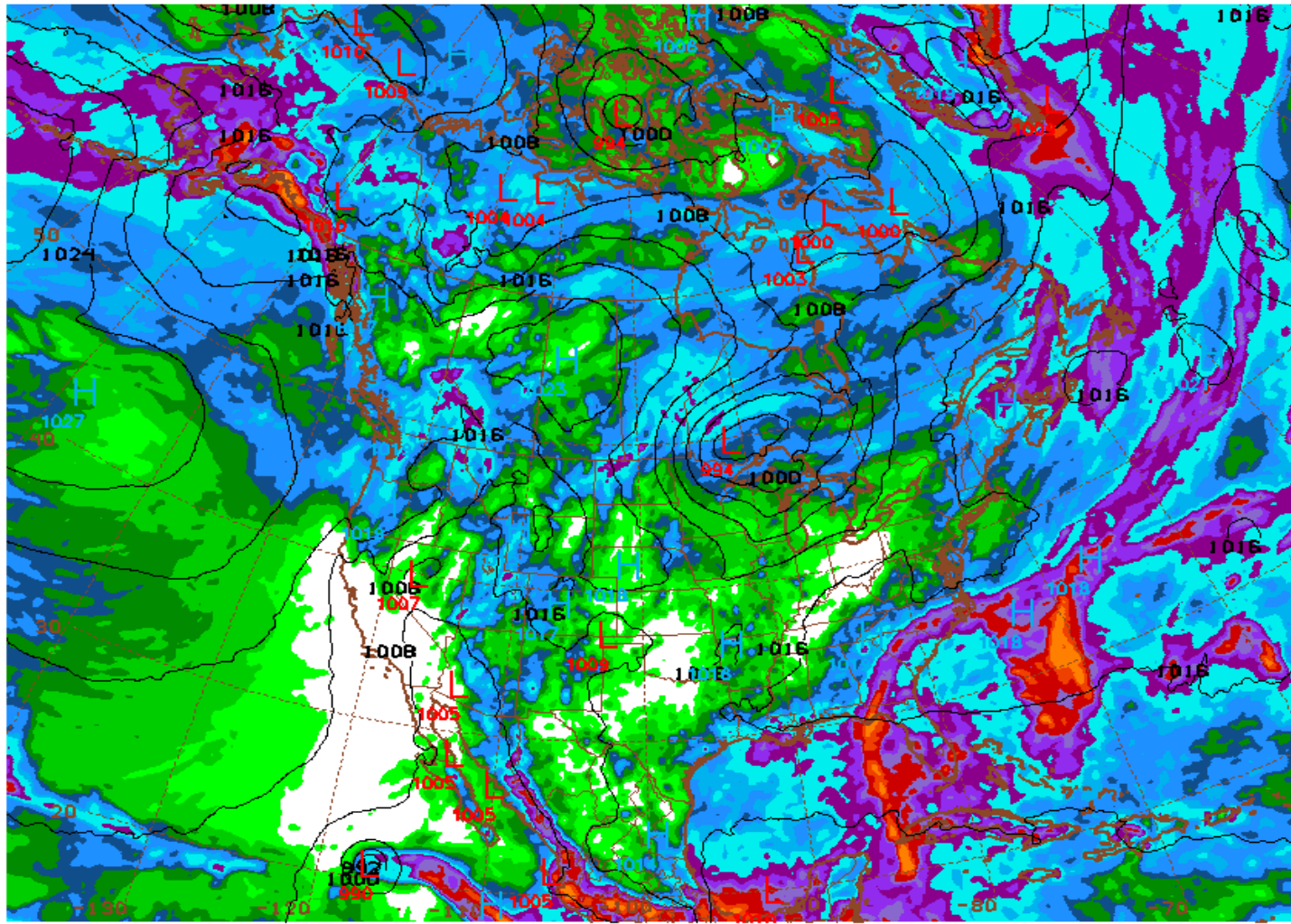
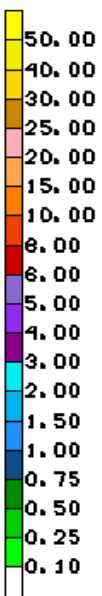
Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2022 - Aug 24, 2023	<b>38.64</b>
Last 7 Days*	<b>0.00</b>

Cumulative Precipitation Comparison of Current Year versus Historic Record



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

6FS 08/28/23 12UTC 384HR FCST VALID MED 09/13/23 12UTC NOAA/NWS/NCEP



6FS MED 230913/1200Y384 EMSL (4MB), 384HR ACCUMULATED PRECIP (IN)

Date Range  
 Aug 28 - Sep 13, 2023

Forecasted Cumulative (inches)  
**0.00**