



**State Water Resources Control Board
 Temporary Urgency Change Order (5/19/2023)
 Russian River Hydrologic Report
 July 7, 2023 - July 13, 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).

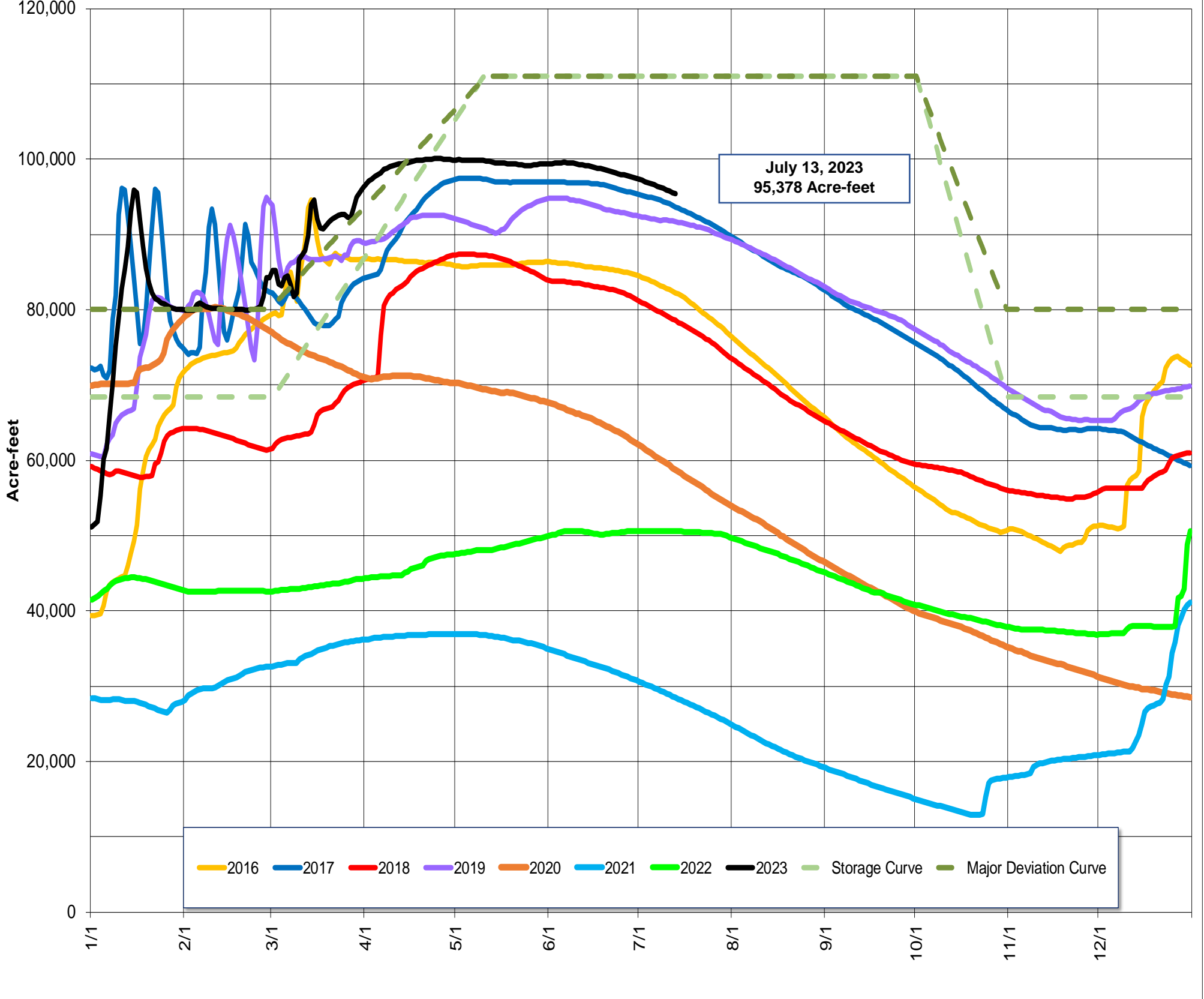
Instream Flow Requirements as of July 13, 2023

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



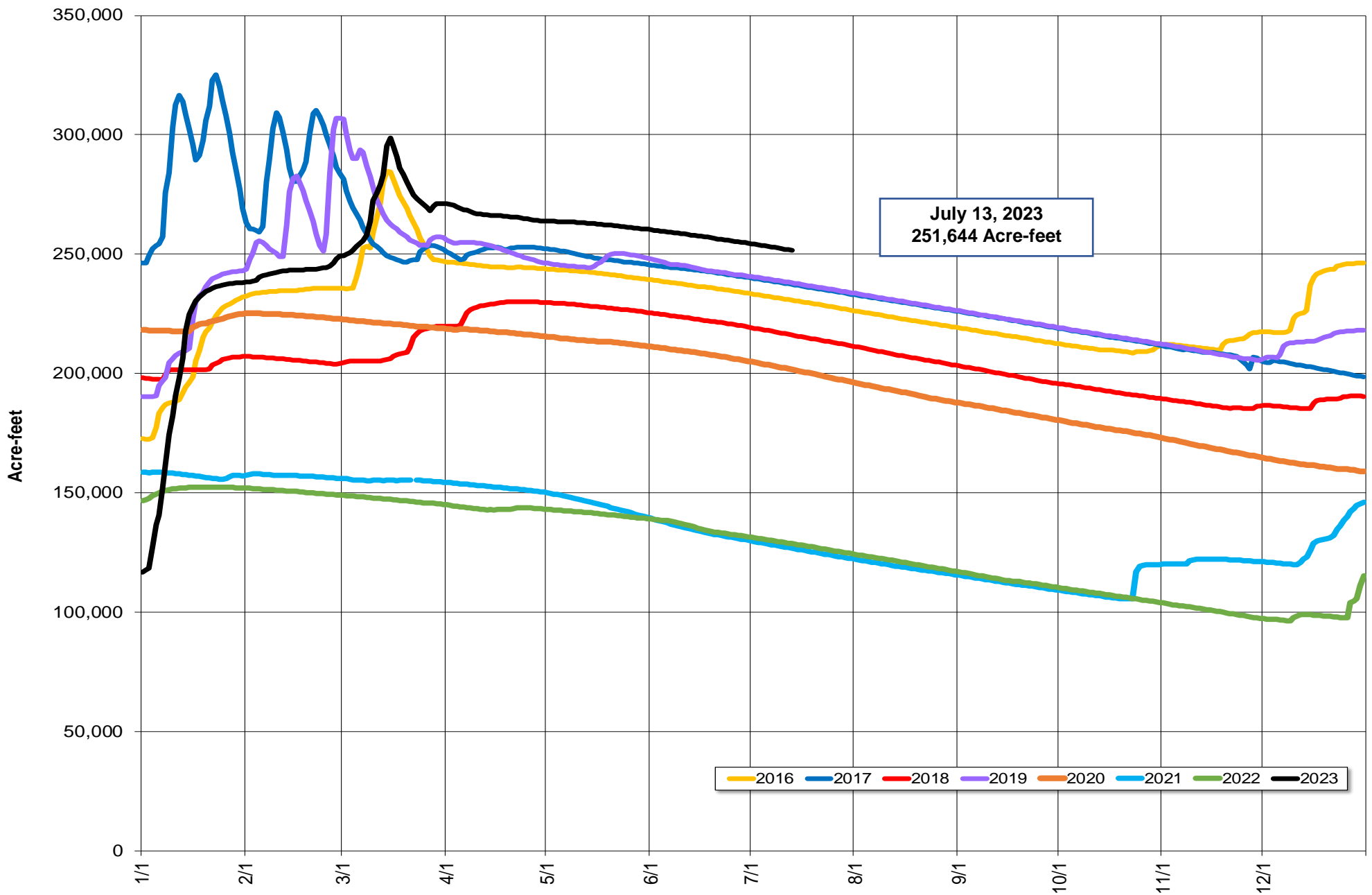
Storage (acre-feet)	July 13, 2023	95,378	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	-3,804	-127
	Last 7 days	-1,047	-150
Daily Inflow (cfs)	Last 7 days	Min	63
		Max	90
		Mean	79
Release (cfs)	Last 7 days	Min	144
		Max	162
		Mean	147

Lake Sonoma



Nathan Baskett, March 3, 2011

Lake Sonoma Storage 2016-2023



Storage (acre-feet)	July 13, 2023	251,644	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	-6,422	-214
	Last 7 days	-1,400	-200
Daily Inflow (cfs)	Last 7 days	Min	0
		Max	9
		Mean	4
Release (cfs)	Last 7 days	Min	93
		Max	93
		Mean	93

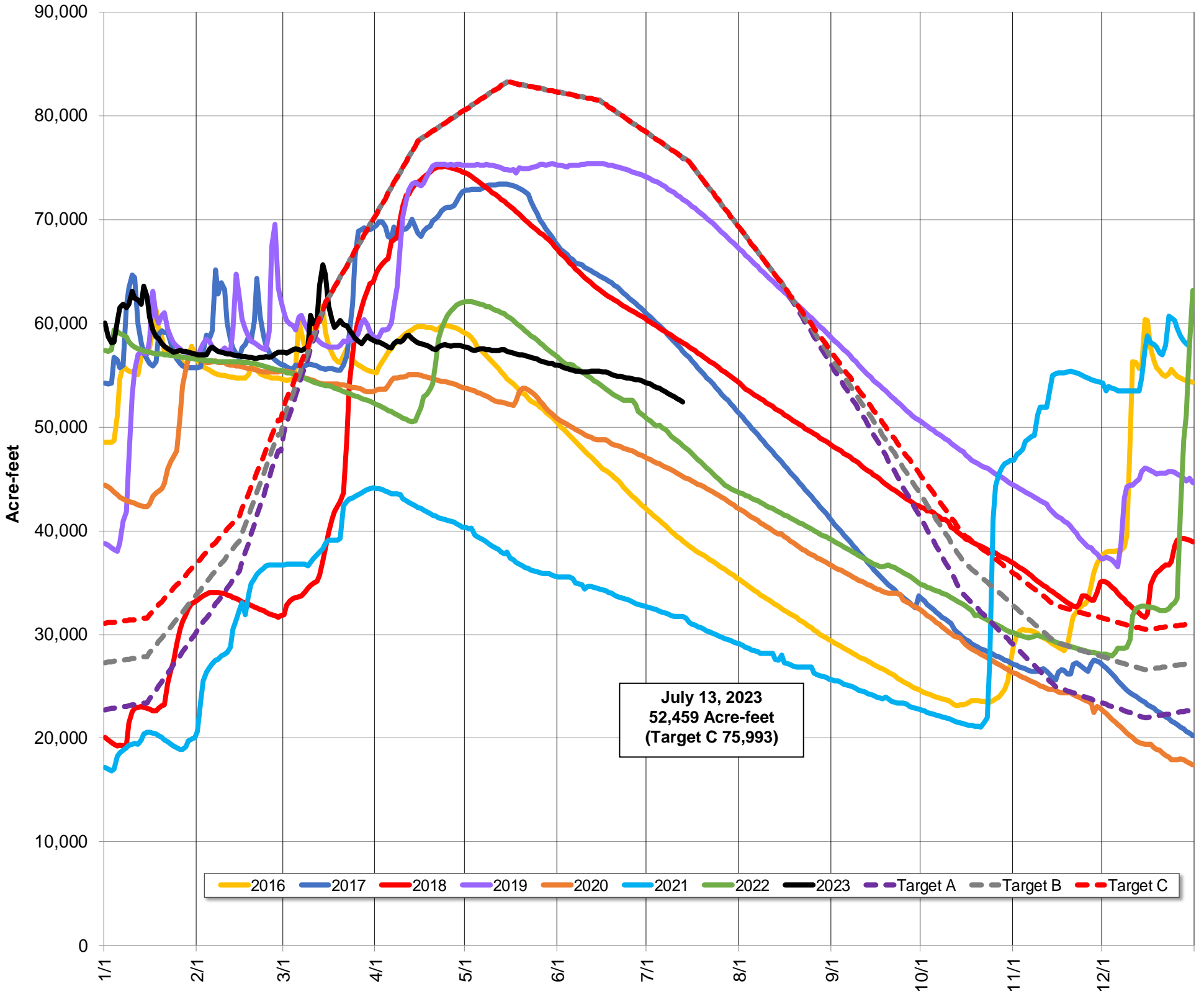
Potter Valley Project

PVP Diversion (cfs)	July 13, 2023	100
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2022 - July 13, 2023	617,700	2,160
	Last 7 days	848	121

*Inflow calculation based on criteria established in D1610

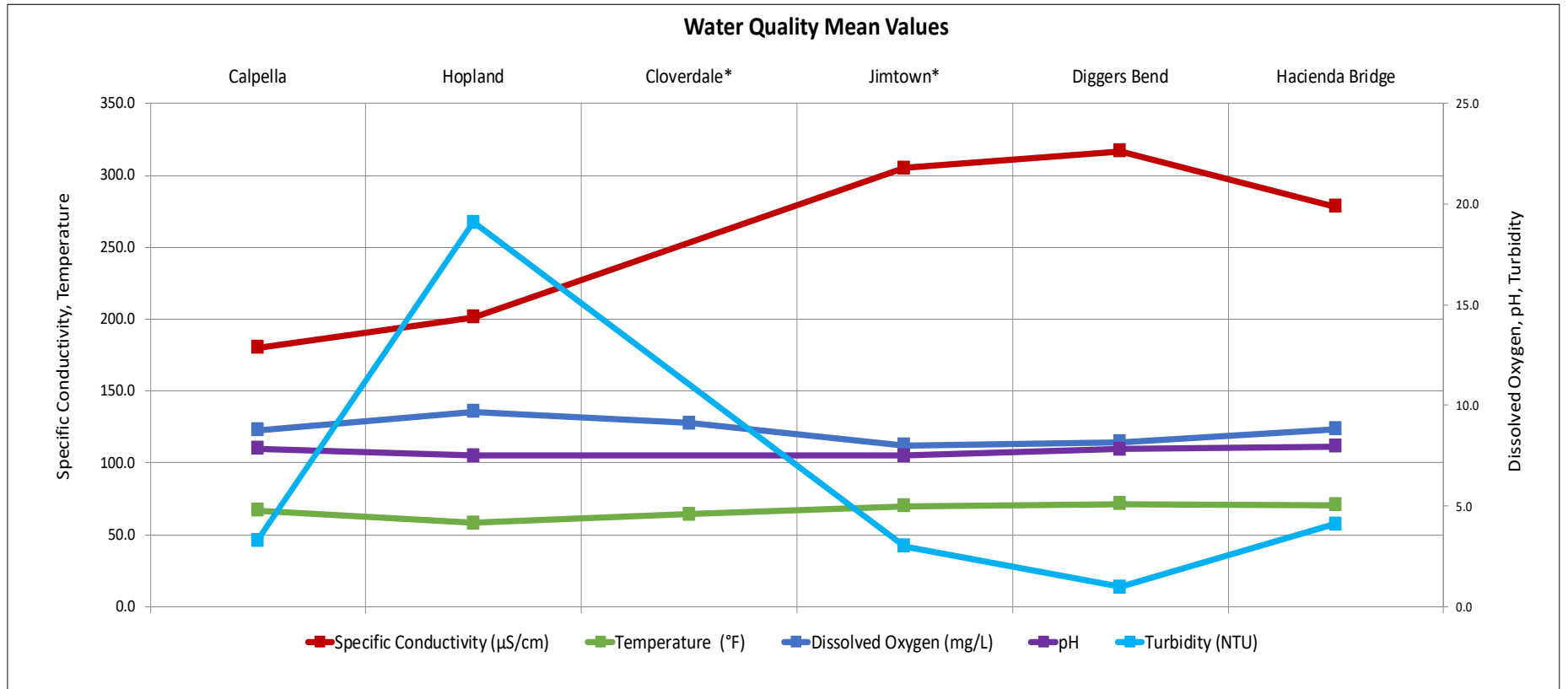
Lake Pillsbury Storage 2016 - 2023 and Target Storage Scenarios



Russian River Flows (July 7, 2023 - July 13, 2023)

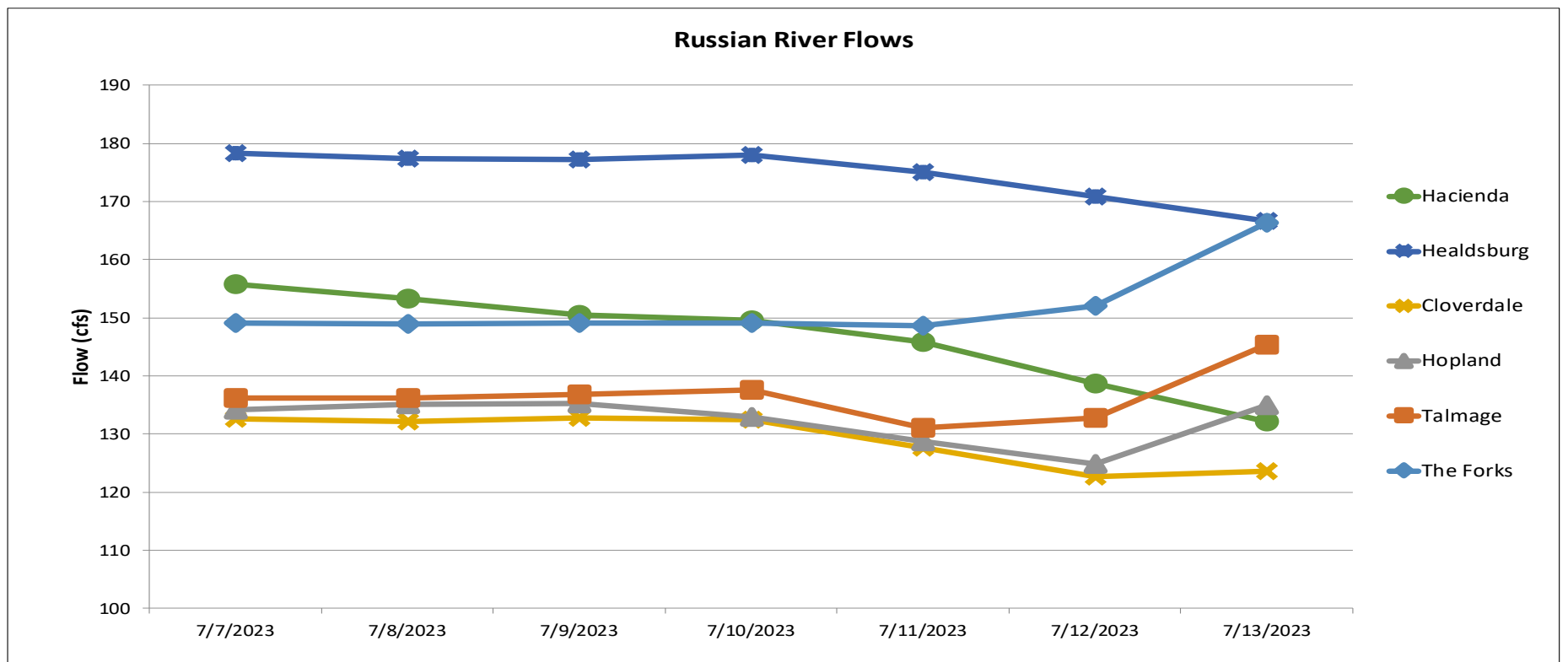
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	63.3	56.1	60.8	66.0	67.5		67.5	
	Max	70.2	61.2	69.1	74.8	76.5		74.8	
	Mean	67.0	58.1	64.4	69.8	71.4		70.7	
Specific Conductivity (µS/cm)	Min	176.0	195.0		302.0	314.0		275.0	
	Max	184.0	203.0		311.0	320.0		284.0	
	Mean	180.1	201.3		305.1	317.0		278.5	
Dissolved Oxygen (mg/L)	Min	8.3	9.1	8.2	6.6	7.2		7.7	
	Max	9.4	10.4	10.3	10.0	9.2		9.9	
	Mean	8.8	9.7	9.1	8.0	8.2		8.8	
Dissolved Oxygen (% Saturation)	Min	91.6	88.1	86.2	71.7	79.0		85.3	
	Max	102.9	105.1	113.1	116.3	108.6		115.9	
	Mean	95.3	95.2	96.5	90.0	93.3		100.0	
pH	Min	7.7	7.4		7.3	7.7		7.8	
	Max	8.0	7.7		7.7	8.0		8.2	
	Mean	7.9	7.5		7.5	7.8		8.0	
Turbidity (NTU)	Min	2.0	17.3		1.8	0.6		2.8	
	Max	5.5	21.6		3.9	1.7		6.0	
	Mean	3.3	19.1		3.0	1.0		4.1	

*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	Jul 7, 2023	Jul 8, 2023	Jul 9, 2023	Jul 10, 2023	Jul 11, 2023	Jul 12, 2023	Jul 13, 2023
The Forks*	149	149	149	149	149	152	166
Talmage USGS 11462080	136	136	137	138	131	133	145
Hopland USGS 11462500	134	135	135	133	129	125	135
Cloverdale USGS 11463000	133	132	133	133	128	123	124
Healdsburg USGS 11464000	178	177	177	178	175	171	167
Hacienda USGS 11467000	156	153	150	150	146	139	132

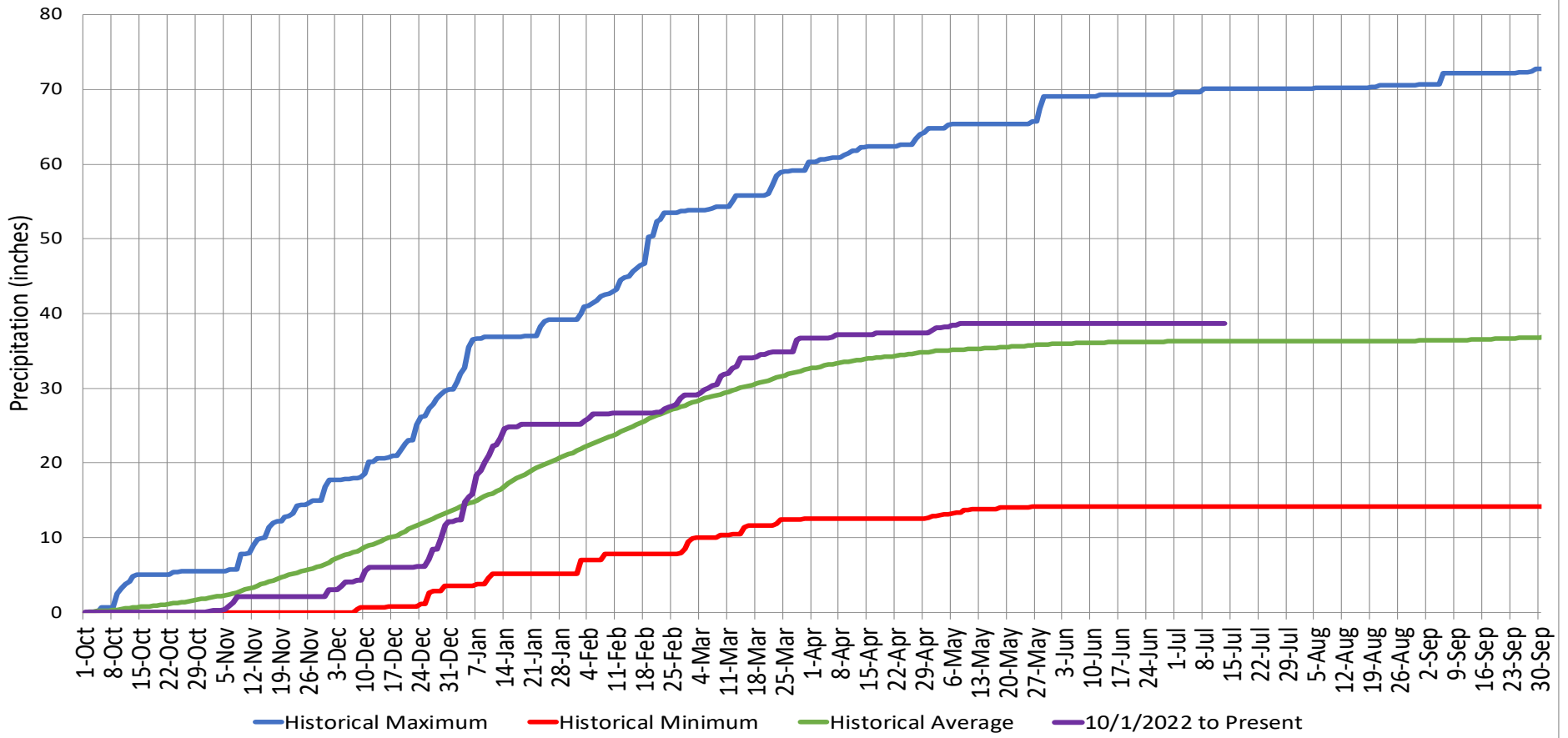
*West Fork(USGS 11461000) + East Fork (Coyote Valley Dam Release)



Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2022 - Jul 13, 2023	38.64
Last 7 Days*	0.00

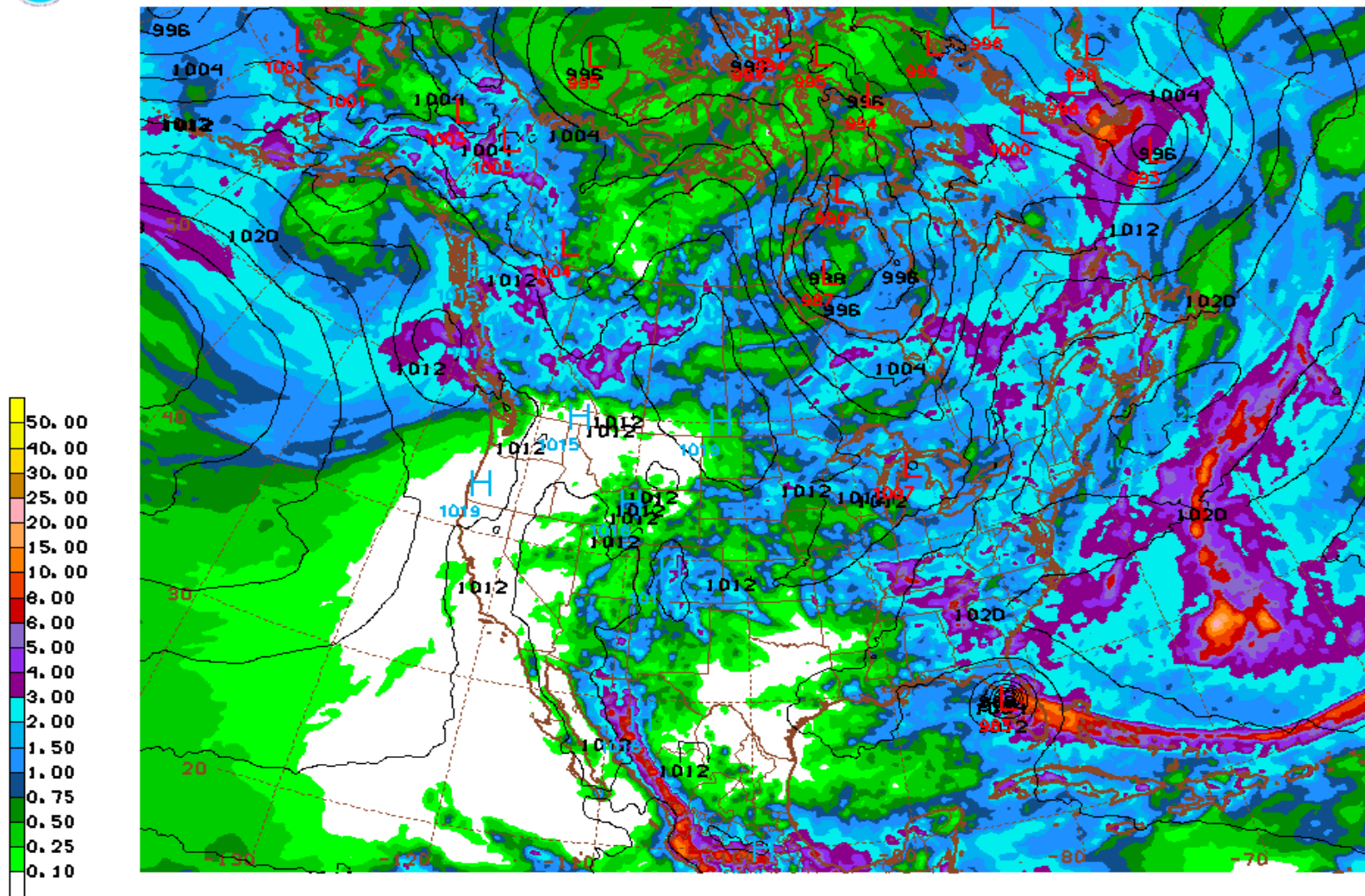
Cumulative Precipitation Comparison of Current Year versus Historic Record



Global Forecast System Model 16-day Cumulative Precipitation Forecast



6FS 07/17/23 12UTC 384HR FCST VALID WED 08/02/23 12UTC NOAA/NWS/NCEP



6FS WED 230802/1200V384 EMSL (4MB), 384HR ACCUMULATED PRECIP (IN)

Date Range
Jul 17 - Aug 2, 2023

Forecasted Cumulative (inches)
0.00