



**State Water Resources Control Board
 Temporary Urgency Change Order (5/19/2023)
 Russian River Hydrologic Report
 July 14, 2023 - July 20, 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).

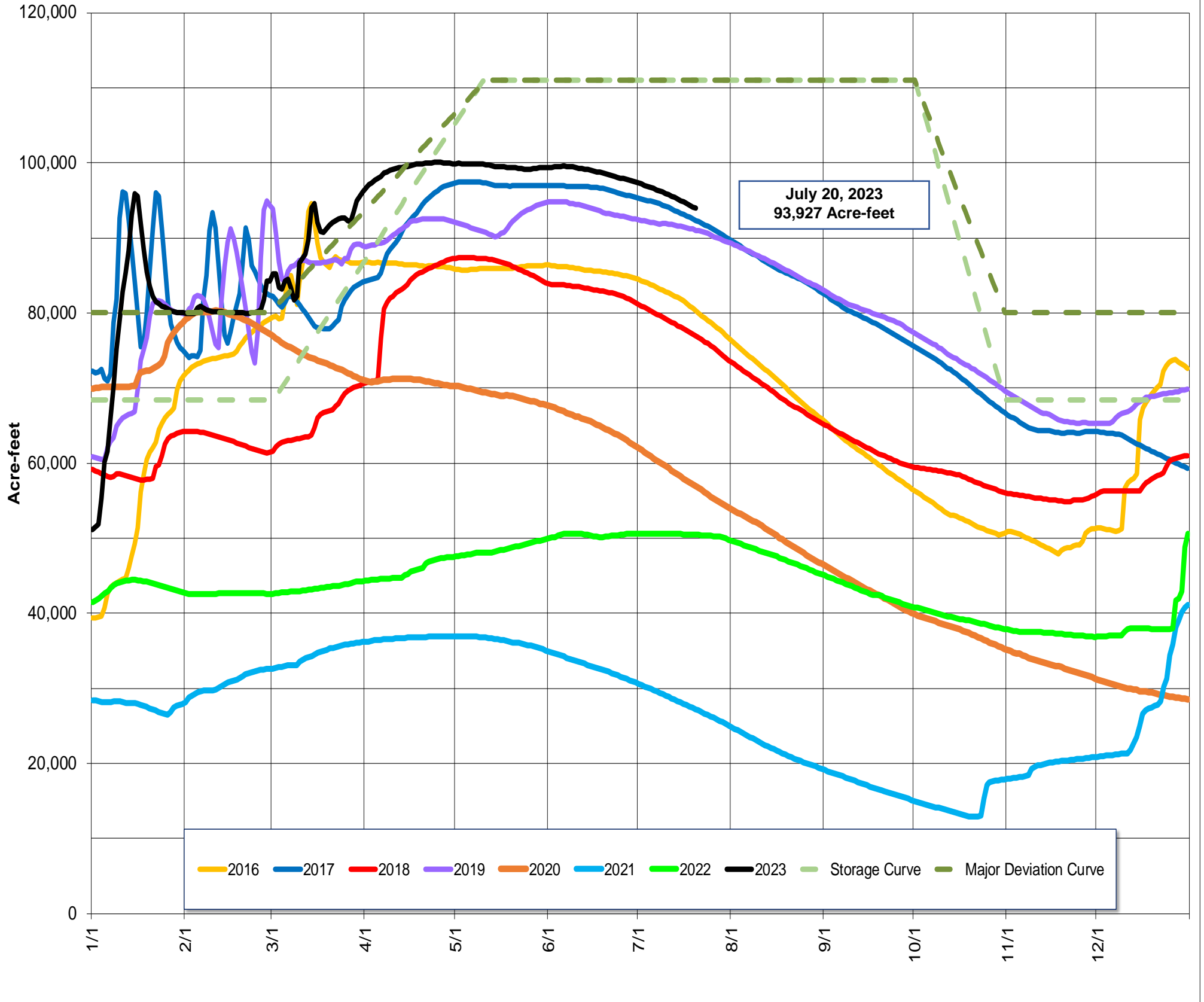
Instream Flow Requirements as of July 20, 2023

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



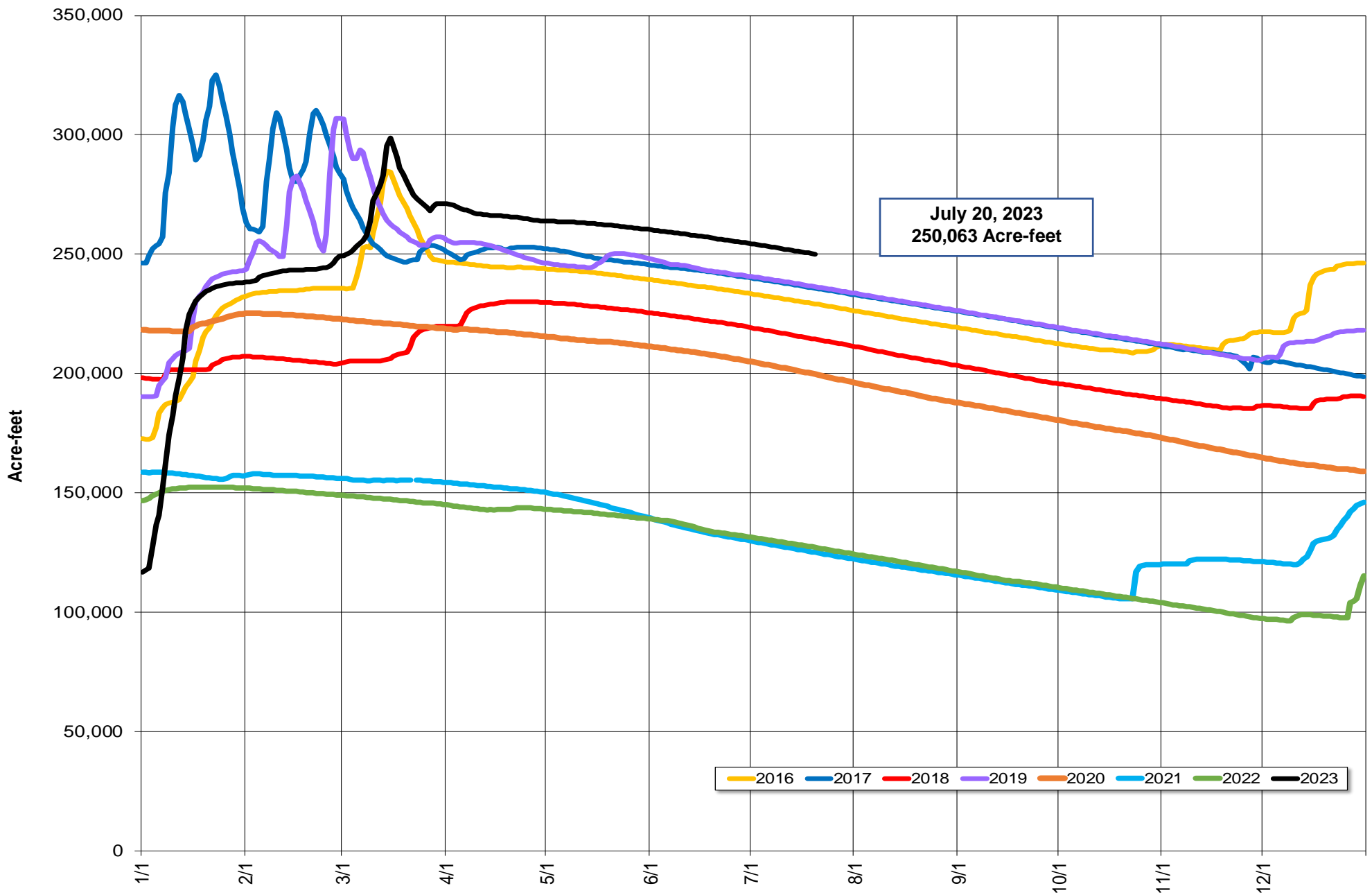
Storage (acre-feet)	July 20, 2023	93,927	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	-4,596	-153
	Last 7 days	-1,239	-177
Daily Inflow (cfs)	Last 7 days	Min	59
		Max	95
		Mean	80
Release (cfs)	Last 7 days	Min	165
		Max	170
		Mean	166

Lake Sonoma



Nathan Baskett, March 3, 2011

Lake Sonoma Storage 2016-2023



Storage (acre-feet)	July 20, 2023	250,063	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	-6,557	-219
	Last 7 days	-1,340	-191
Daily Inflow (cfs)	Last 7 days	Min	0
		Max	22
		Mean	7
Release (cfs)	Last 7 days	Min	93
		Max	93
		Mean	93

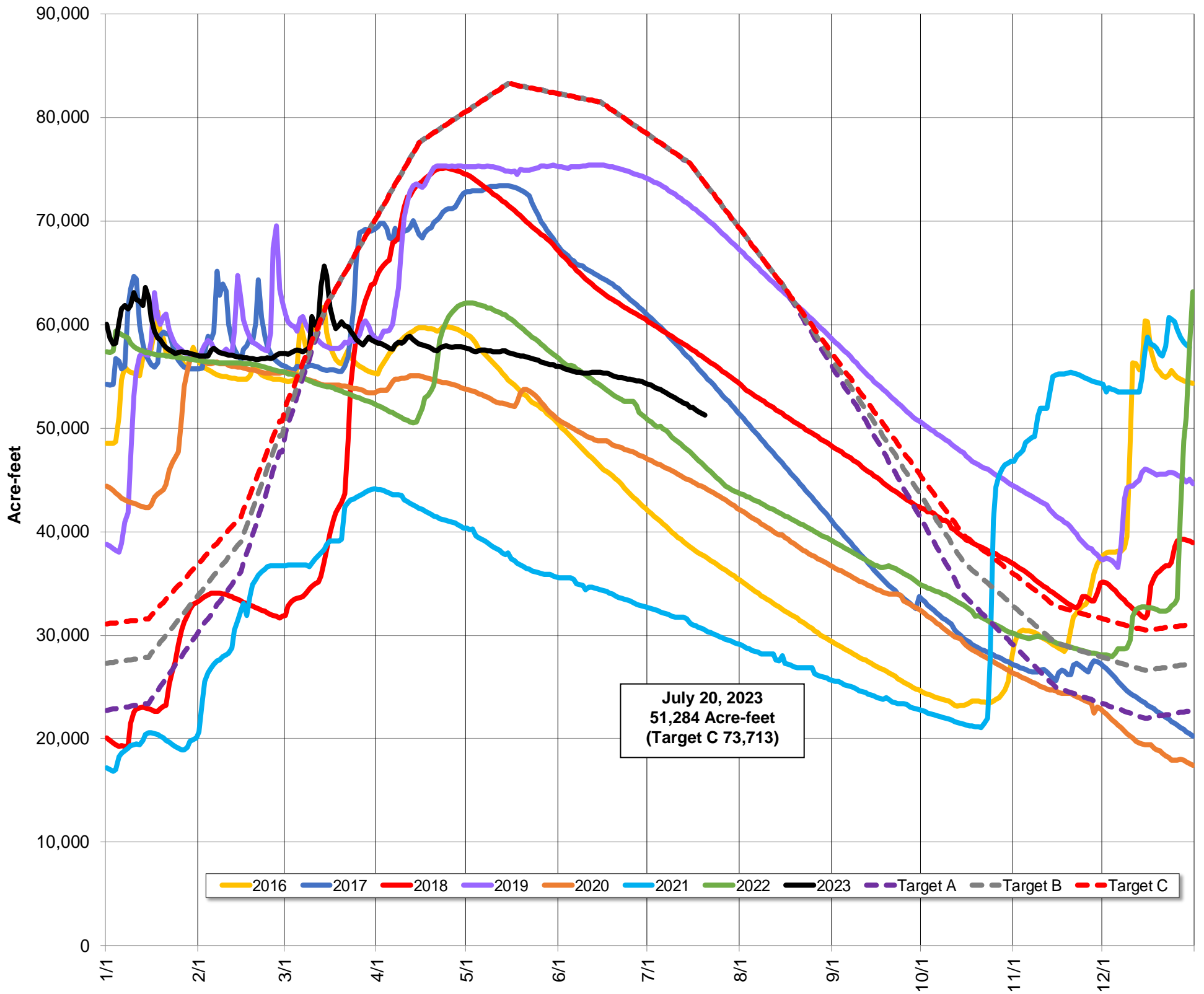
Potter Valley Project

PVP Diversion (cfs)	July 20, 2023	106
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2022 - July 20, 2023	618,629	2,111
	Last 7 days	793	113

*Inflow calculation based on criteria established in D1610

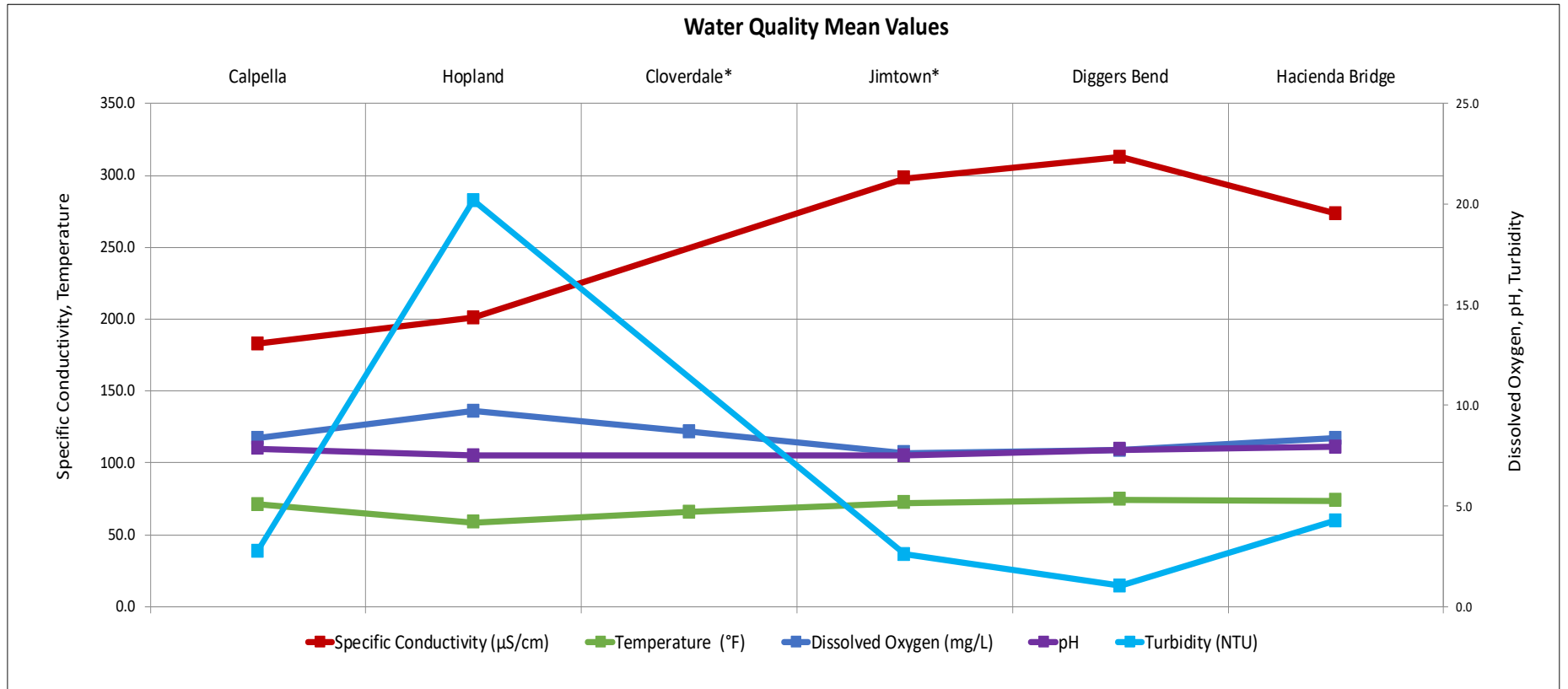
Lake Pillsbury Storage 2016 - 2023 and Target Storage Scenarios



Russian River Flows (July 14, 2023 - July 20, 2023)

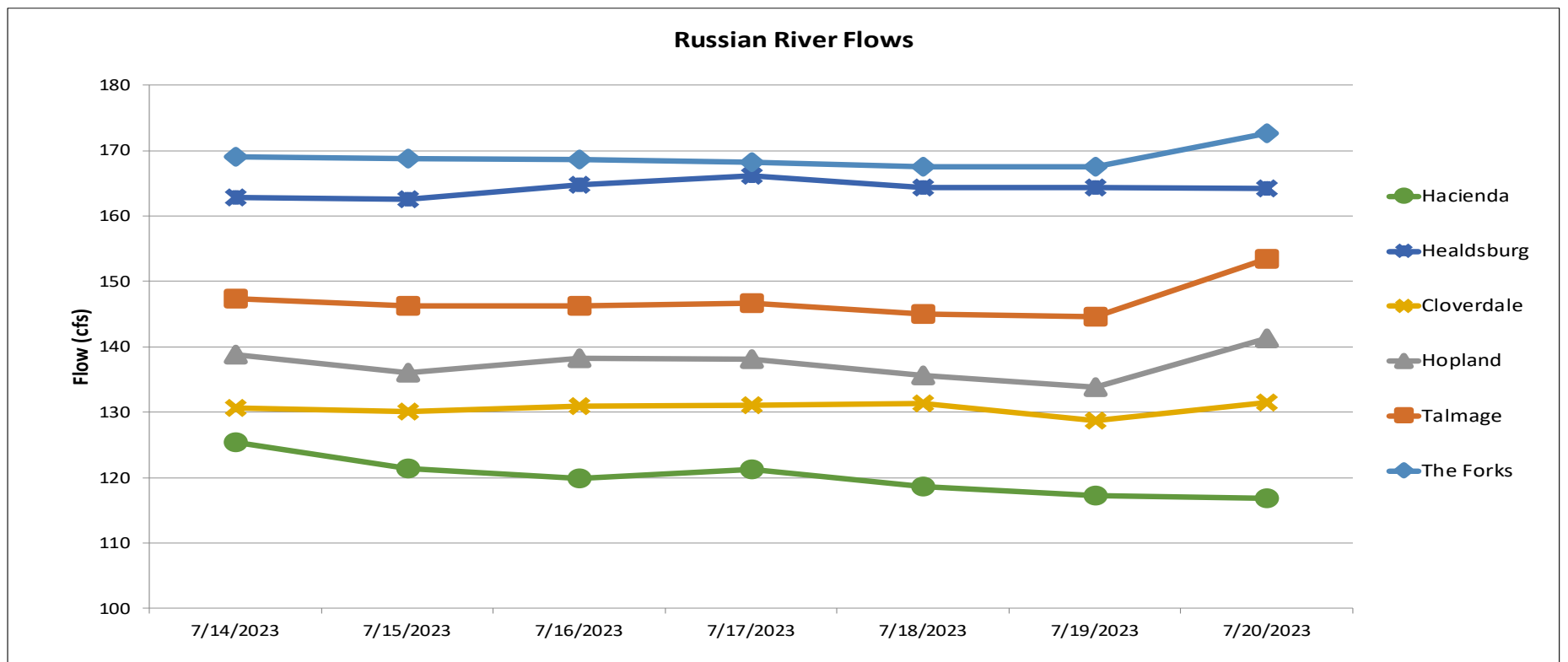
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	67.1	56.8	62.4	67.6	69.6		69.3	
	Max	74.3	60.6	69.4	77.2	79.2		77.7	
	Mean	70.9	58.4	65.6	72.2	74.3		73.6	
Specific Conductivity (µS/cm)	Min	180.0	196.0		291.0	306.0		267.0	
	Max	186.0	205.0		310.0	324.0		282.0	
	Mean	182.9	200.9		297.8	312.6		273.3	
Dissolved Oxygen (mg/L)	Min	7.9	9.1	7.6	6.2	6.7		6.9	
	Max	9.1	10.5	10.2	9.7	8.8		9.7	
	Mean	8.4	9.7	8.7	7.6	7.8		8.4	
Dissolved Oxygen (% Saturation)	Min	90.6	88.7	79.7	69.6	77.7		78.0	
	Max	103.4	105.0	112.8	115.0	106.7		115.6	
	Mean	94.8	95.6	93.2	88.0	91.4		97.9	
pH	Min	7.7	7.4		7.4	7.7		7.6	
	Max	8.1	7.7		7.7	8.0		8.1	
	Mean	7.8	7.5		7.5	7.8		7.9	
Turbidity (NTU)	Min	1.7	17.9		1.7	0.6		2.8	
	Max	4.7	22.4		6.2	1.8		6.2	
	Mean	2.7	20.2		2.6	1.0		4.3	

*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	Jul 14, 2023	Jul 15, 2023	Jul 16, 2023	Jul 17, 2023	Jul 18, 2023	Jul 19, 2023	Jul 20, 2023
The Forks*	169	169	169	168	168	168	173
Talmage USGS 11462080	147	146	146	147	145	145	153
Hopland USGS 11462500	139	136	138	138	136	134	141
Cloverdale USGS 11463000	131	130	131	131	131	129	132
Healdsburg USGS 11464000	163	163	165	166	164	164	164
Hacienda USGS 11467000	125	121	120	121	119	117	117

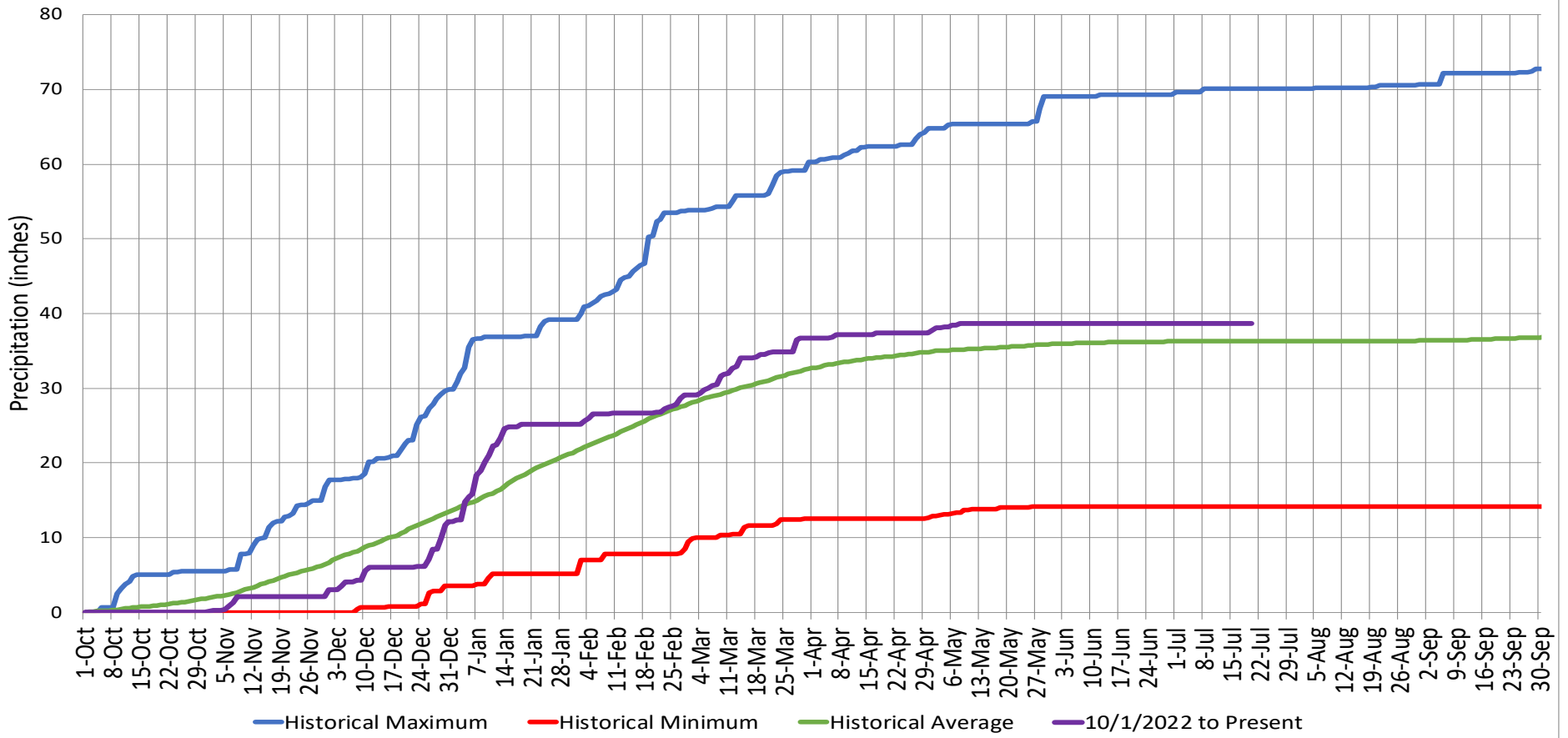
*West Fork(USGS 11461000) + East Fork (Coyote Valley Dam Release)



Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2022 - Jul 20, 2023	38.64
Last 7 Days*	0.00

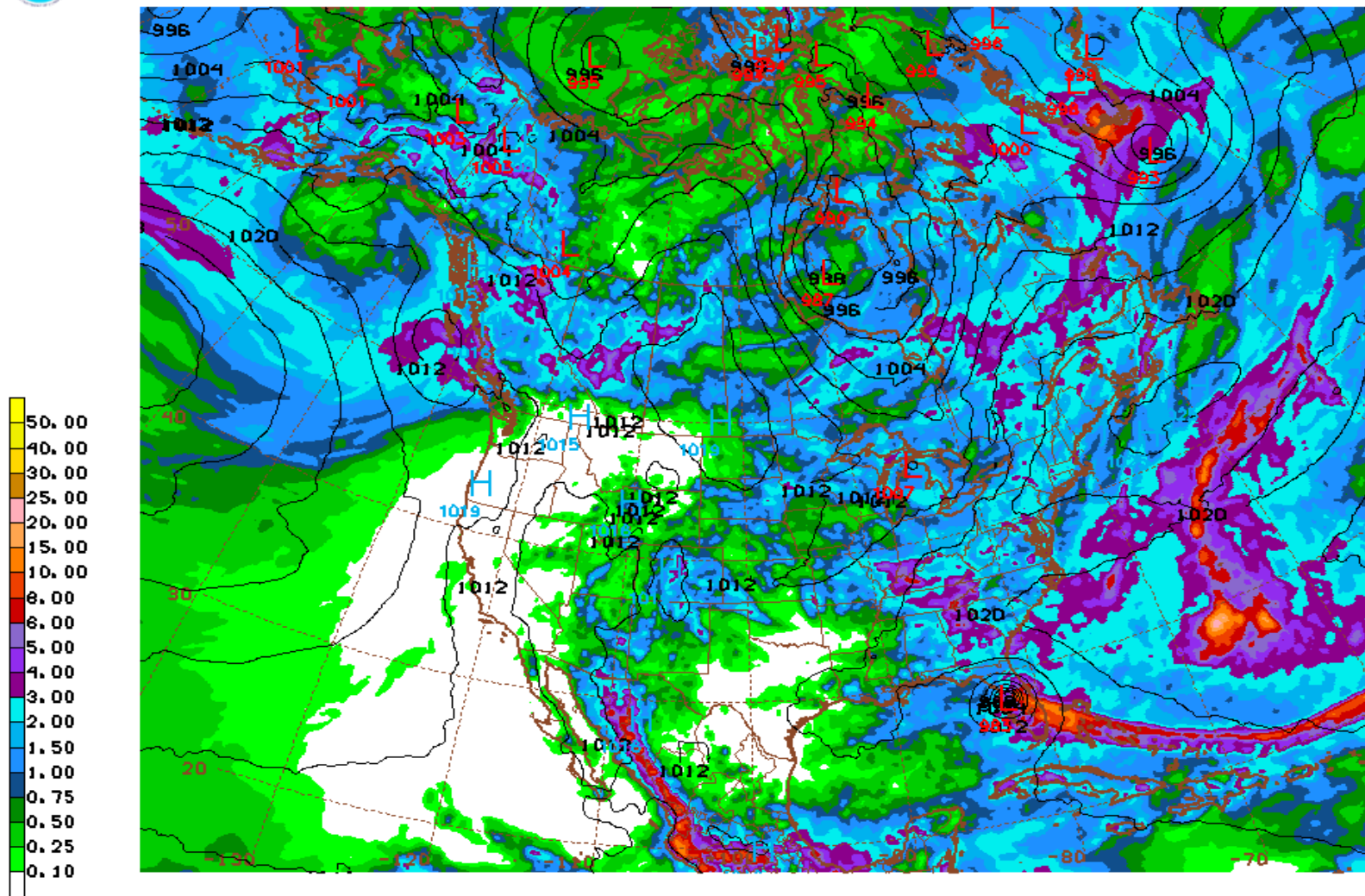
Cumulative Precipitation Comparison of Current Year versus Historic Record



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 24 - Aug 9, 2023

Forecasted Cumulative (inches)
0.00