



**State Water Resources Control Board
 Temporary Urgency Change Order (5/19/2023)
 Russian River Hydrologic Report
 August 25, 2023 - August 31, 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).

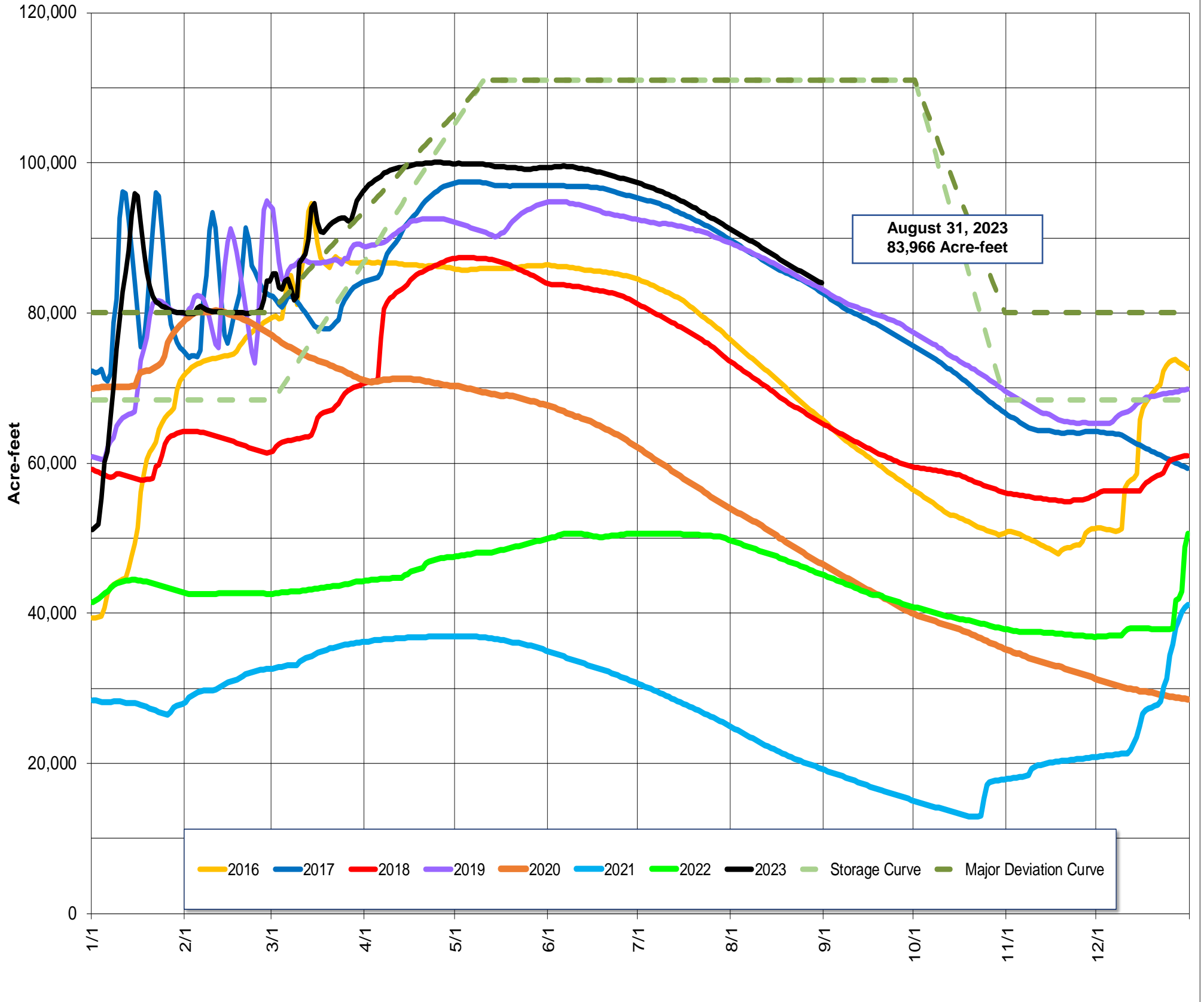
Instream Flow Requirements as of August 31, 2023

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



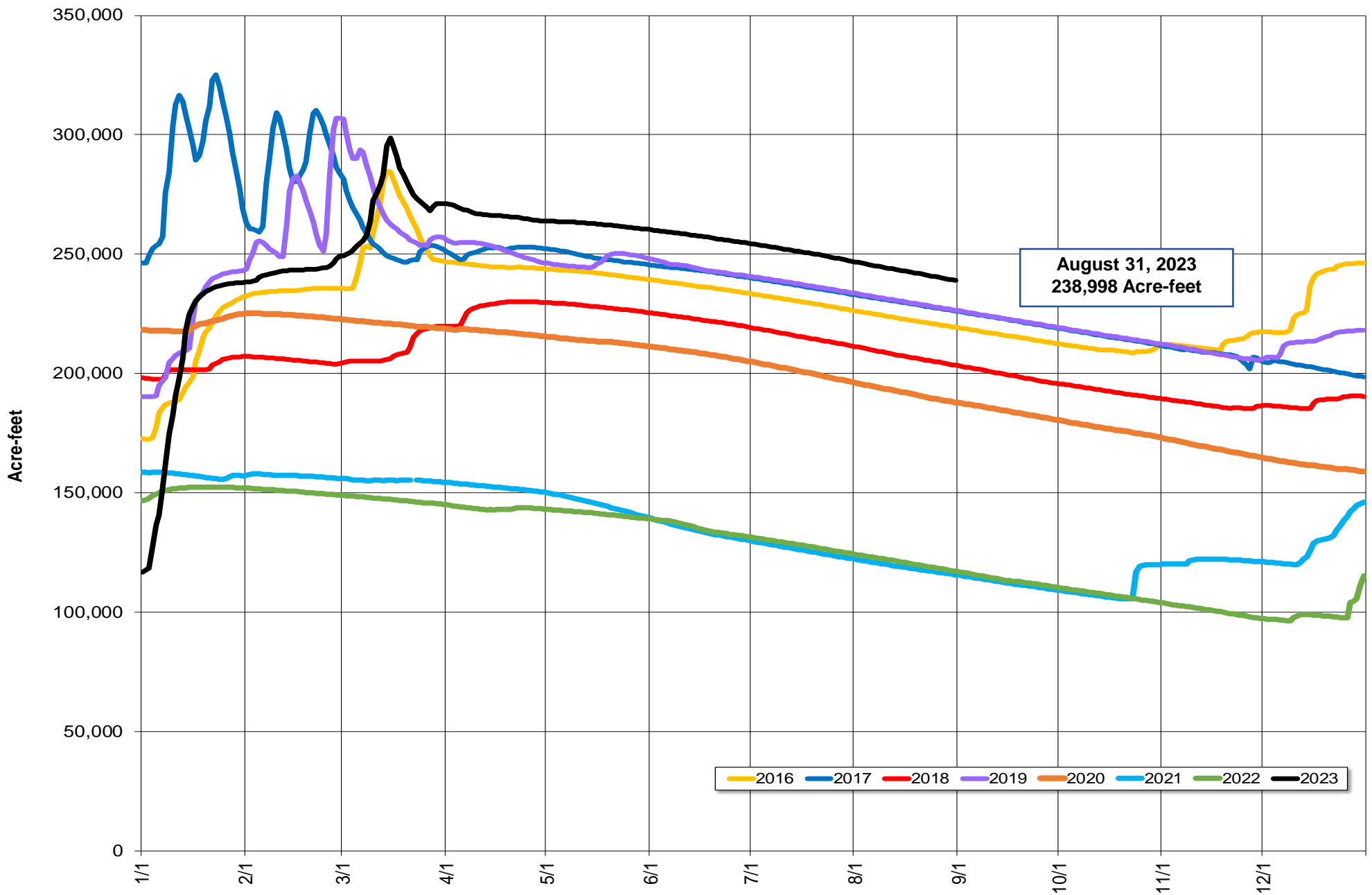
Storage (acre-feet)	August 31, 2023	83,966	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	-7,138	-238
	Last 7 days	-1,358	-194
Daily Inflow (cfs)	Last 7 days	Min	80
		Max	108
		Mean	92
Release (cfs)	Last 7 days	Min	189
		Max	193
		Mean	190

Lake Sonoma



Nathan Baskett, March 3, 2011

Lake Sonoma Storage 2016-2023



Storage (acre-feet)	August 31, 2023	238,998	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
		-7,816	-261
	Last 7 days	-1,534	-219
Daily Inflow (cfs)	Last 7 days	Min	0
		Max	10
		Mean	2
Release (cfs)	Last 7 days	Min	108
		Max	109
		Mean	108

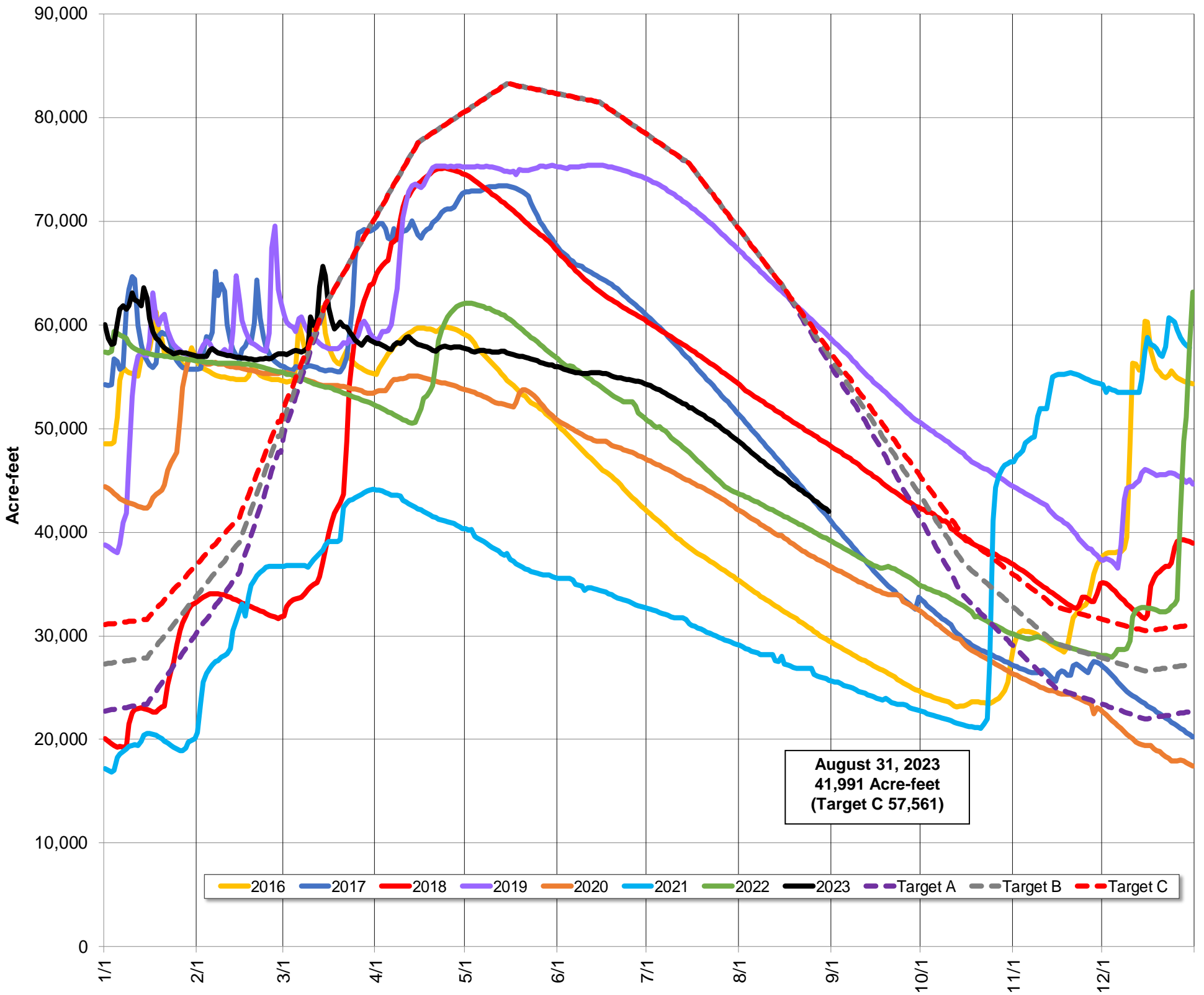
Potter Valley Project

PVP Diversion (cfs)	August 31, 2023	92
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2022 - August 31, 2023	621,543	1,855
	Last 7 days	277	40

*Inflow calculation based on criteria established in D1610

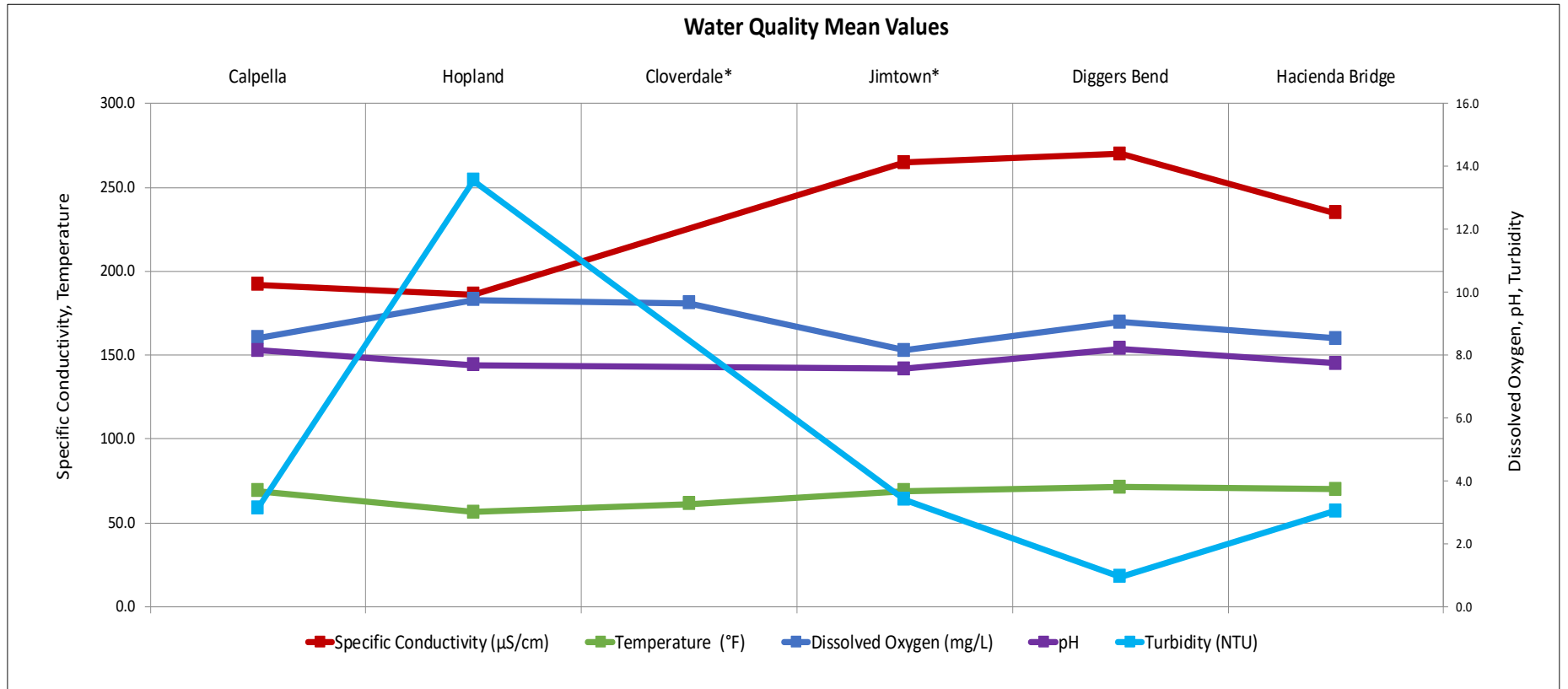
Lake Pillsbury Storage 2016 - 2023 and Target Storage Scenarios



Russian River Flows (August 25, 2023 - August 31, 2023)

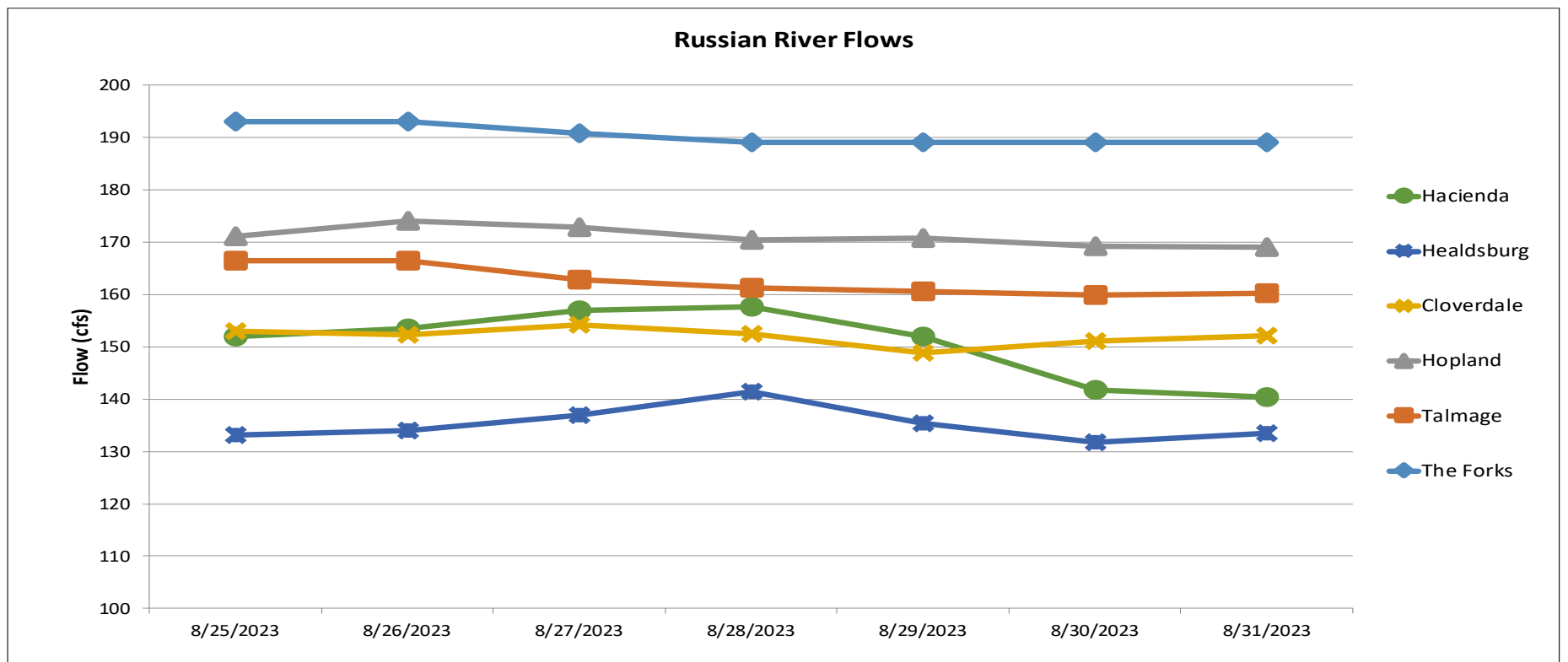
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	66.4	54.5	58.6	65.7	67.8		66.9	
	Max	71.6	57.9	65.1	72.9	75.2		73.0	
	Mean	68.9	56.3	61.1	69.1	71.3		70.1	
Specific Conductivity (µS/cm)	Min	188.0	185.0		263.0	268.0		232.0	
	Max	196.0	187.0		267.0	272.0		238.0	
	Mean	191.9	186.2		264.8	270.2		234.8	
Dissolved Oxygen (mg/L)	Min	8.2	9.2	8.8	6.8	7.1		6.8	
	Max	9.1	10.6	11.4	10.4	11.0		9.8	
	Mean	8.5	9.8	9.6	8.1	9.0		8.5	
Dissolved Oxygen (% Saturation)	Min	90.5	87.7	88.7	74.2	79.5		73.9	
	Max	103.1	103.3	116.0	119.0	129.2		113.8	
	Mean	94.9	93.5	98.1	90.8	103.4		96.0	
pH	Min	8.0	7.5		7.4	7.7		7.4	
	Max	8.3	8.0		7.9	8.6		8.1	
	Mean	8.1	7.7		7.6	8.2		7.7	
Turbidity (NTU)	Min	1.8	11.8		2.7	0.6		2.3	
	Max	6.1	15.1		4.2	1.6		4.2	
	Mean	3.1	13.6		3.4	1.0		3.0	

*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	Aug 25, 2023	Aug 26, 2023	Aug 27, 2023	Aug 28, 2023	Aug 29, 2023	Aug 30, 2023	Aug 31, 2023
The Forks*	193	193	191	189	189	189	189
Talmage USGS 11462080	166	166	163	161	161	160	160
Hopland USGS 11462500	171	174	173	170	171	169	169
Cloverdale USGS 11463000	153	152	154	153	149	151	152
Healdsburg USGS 11464000	133	134	137	141	135	132	133
Hacienda USGS 11467000	152	153	157	158	152	142	140

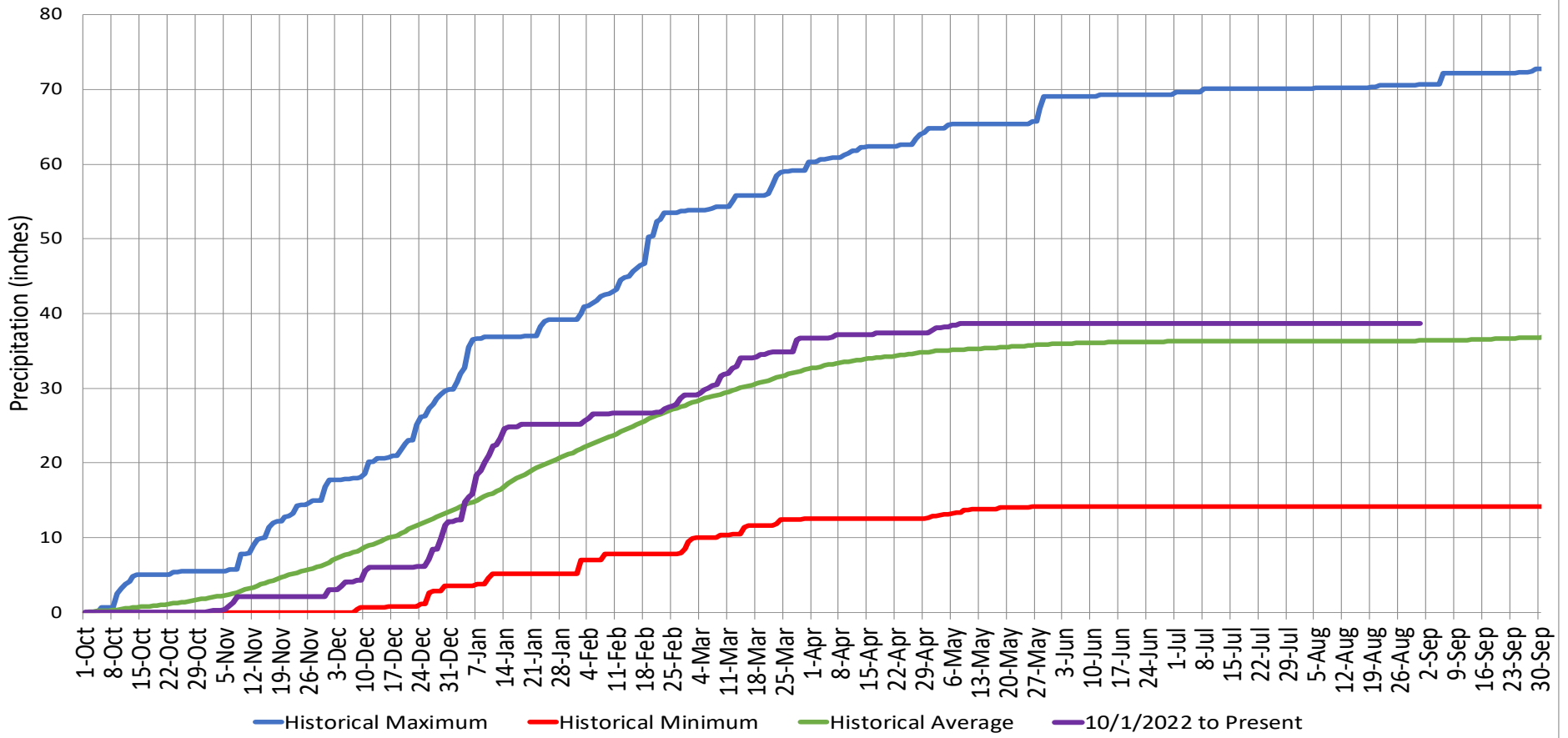
*West Fork(USGS 11461000) + East Fork (Coyote Valley Dam Release)



Precipitation

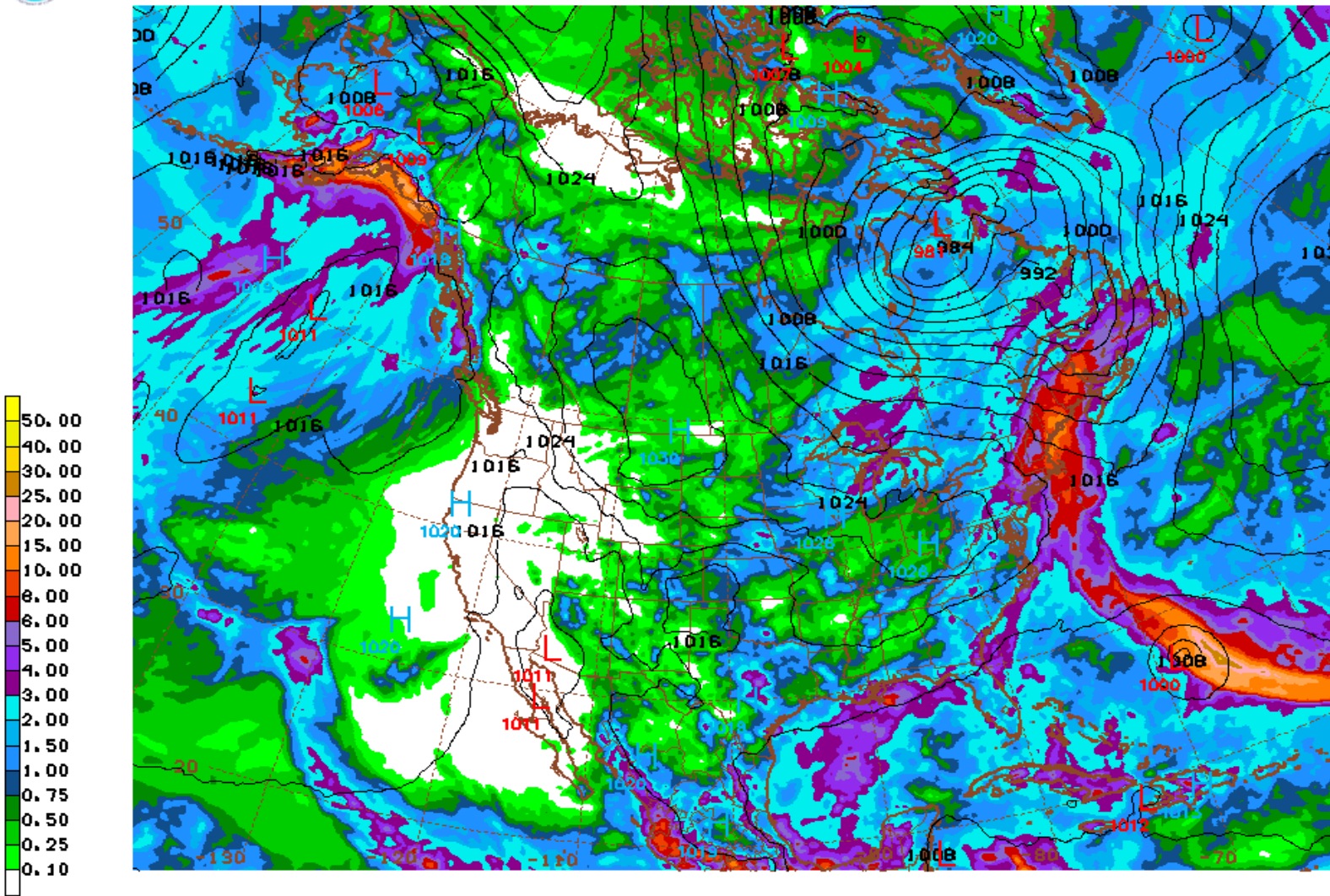
Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2022 - Aug 31, 2023	38.64
Last 7 Days*	0.00

Cumulative Precipitation Comparison of Current Year versus Historic Record



Global Forecast System Model 16-day Cumulative Precipitation Forecast

6FS 09/05/23 12UTC 384HR FCST VALID THU 09/21/23 12UTC NOAA/NWS/NCEP



6FS THU 230921/1200V384 EMSL (4MB), 384HR ACCUMULATED PRECIP (IN)

Date Range
Sep 5 - Sep 21, 2023

Forecasted Cumulative (inches)
0.00

Russian River Fisheries Monitoring



Sonoma Water installed the video camera in the fish ladder at the Mirabel dam to monitor the number of adult salmon and steelhead passing the dam.