



**State Water Resources Control Board
 Temporary Urgency Change Order (5/19/2023)
 Russian River Hydrologic Report
 September 29, 2023 - October 5, 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).

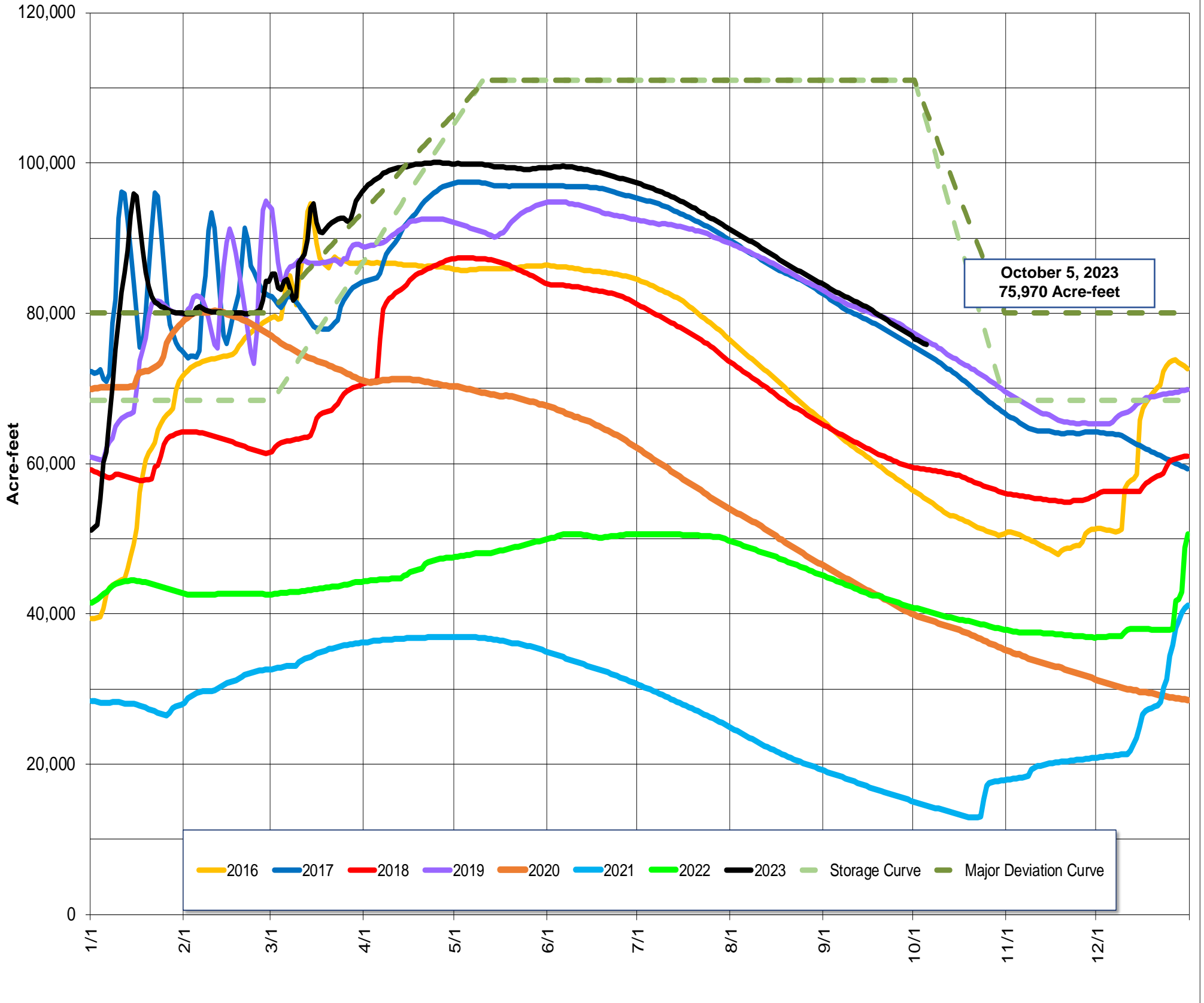
Instream Flow Requirements as of October 5, 2023

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



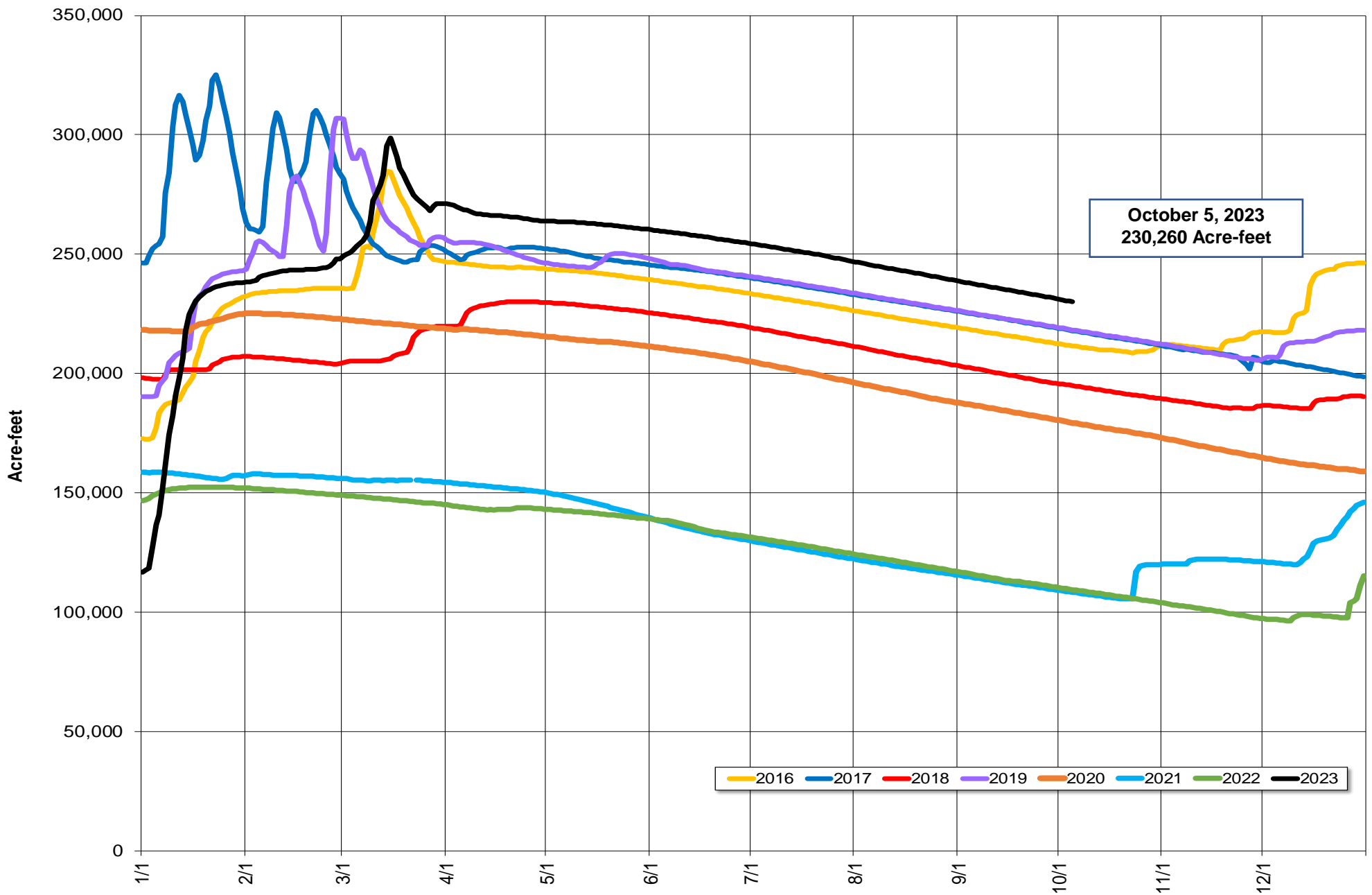
Storage (acre-feet)	October 5, 2023	75,970	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	-7,056	-235
	Last 7 days	-1,487	-212
Daily Inflow (cfs)	Last 7 days	Min	43
		Max	80
		Mean	58
Release (cfs)	Last 7 days	Min	158
		Max	169
		Mean	164

Lake Sonoma



Nathan Baskett, March 3, 2011

Lake Sonoma Storage 2016-2023



Storage (acre-feet)	October 5, 2023	230,260	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	-7,696	-257
	Last 7 days	-1,420	-203
Daily Inflow (cfs)	Last 7 days	Min	0
		Max	17
		Mean	6
Release (cfs)	Last 7 days	Min	101
		Max	113
		Mean	109

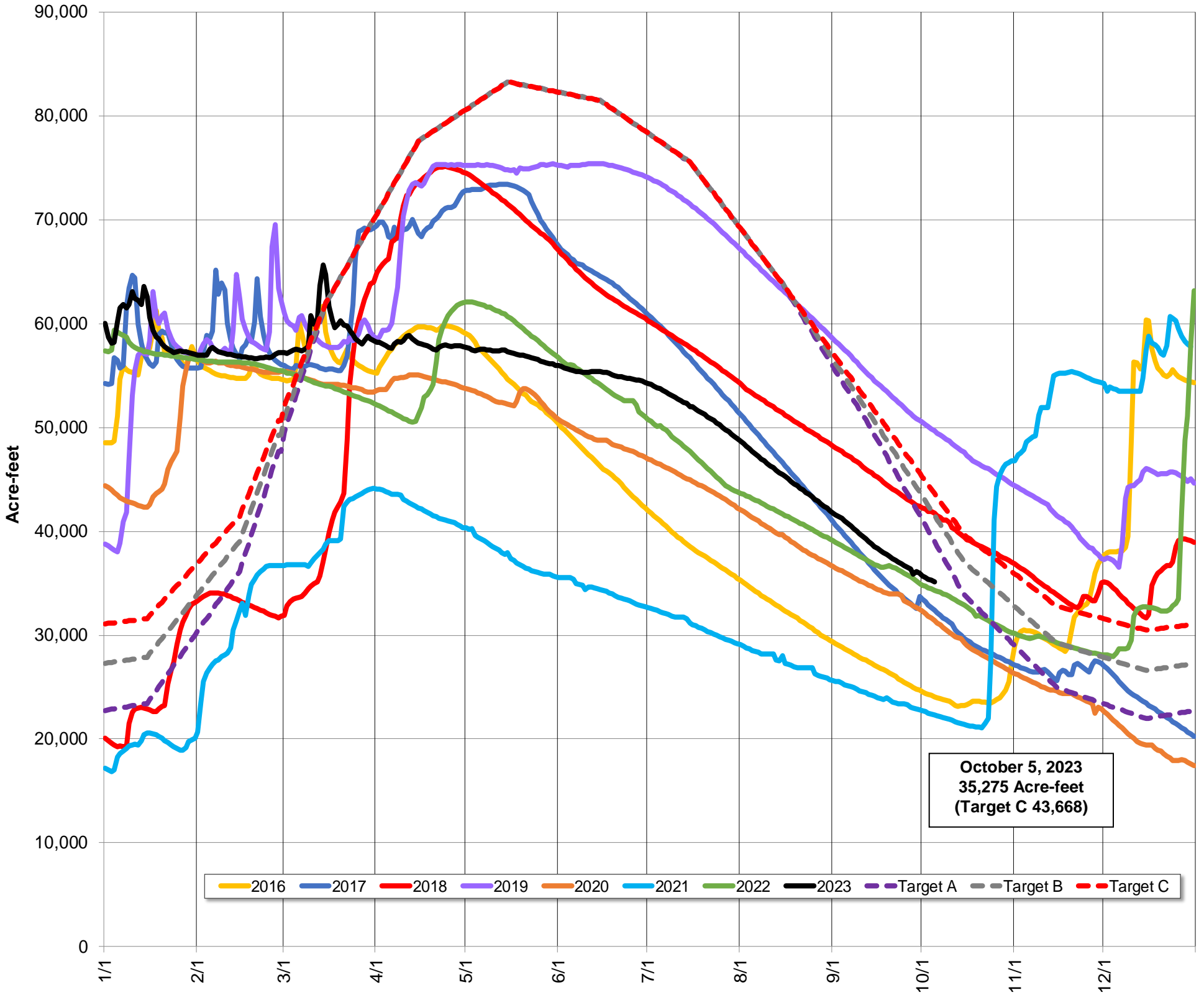
Potter Valley Project

PVP Diversion (cfs)	October 5, 2023	51
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2023 - October 5, 2023	266	53
	Last 7 days	799	114

*Inflow calculation based on criteria established in D1610

Lake Pillsbury Storage 2016 - 2023 and Target Storage Scenarios

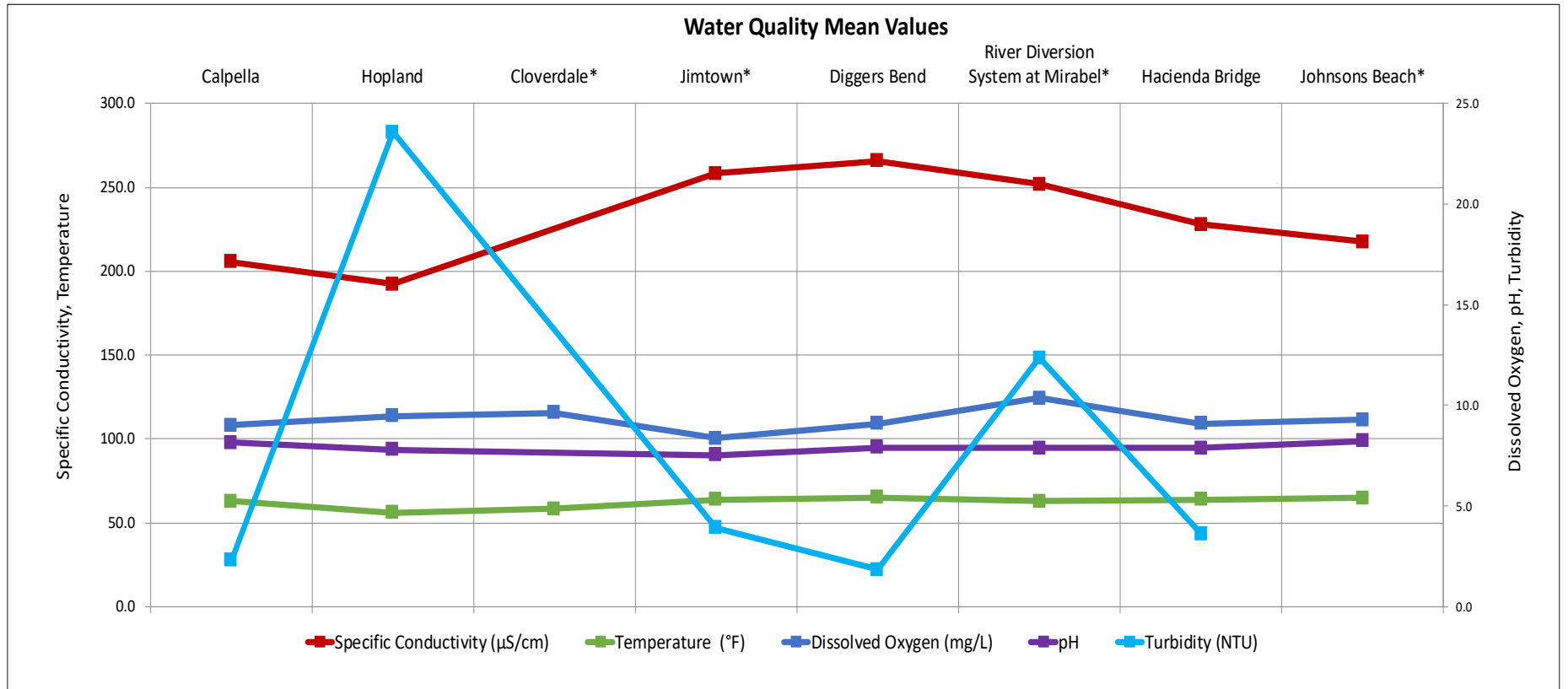


October 5, 2023
35,275 Acre-feet
(Target C 43,668)

Russian River Flows (September 29, 2023 - October 5, 2023)

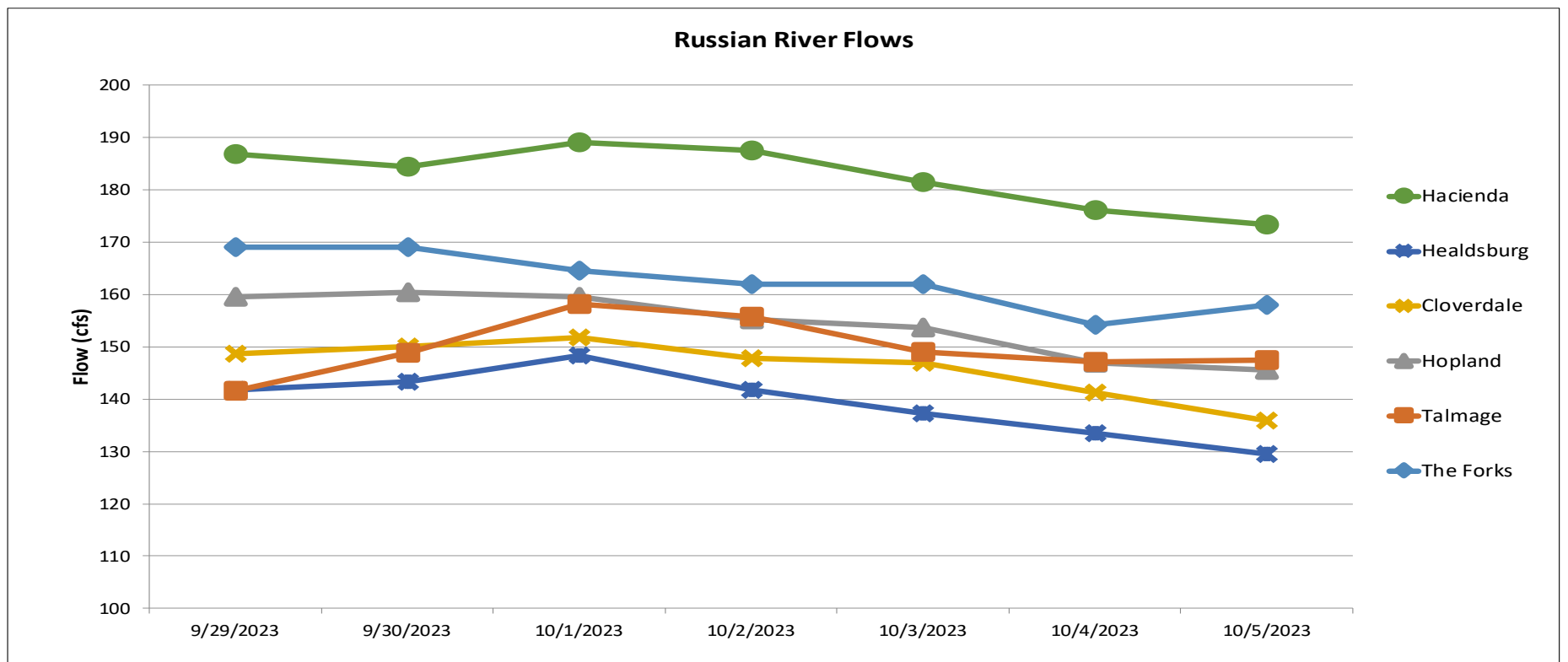
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	60.1	54.1	55.9	61.0	61.5	60.8	60.6	62.5
	Max	65.3	58.1	61.5	67.3	68.7	64.3	66.2	67.4
	Mean	62.7	56.0	58.4	63.7	65.1	62.8	63.6	64.8
Specific Conductivity (µS/cm)	Min	203.0	191.0		256.0	261.0	250	225.0	120.1
	Max	211.0	194.0		263.0	269.0	254	232.0	238.4
	Mean	205.5	192.3		258.2	265.8	252	227.8	217.6
Dissolved Oxygen (mg/L)	Min	8.6	9.2	9.1	7.4	7.0	9.6	7.2	8.5
	Max	9.7	10.0	10.5	10.1	11.9	10.9	10.7	10.1
	Mean	9.0	9.5	9.6	8.4	9.1	10.4	9.1	9.3
Dissolved Oxygen (% Saturation)	Min	89.7	87.5	90.4	76.1	73.0	96.6	74.6	88.7
	Max	100.2	96.0	106.0	108.4	129.3	109.1	112.8	106.4
	Mean	93.4	90.7	94.7	87.7	97.1	104.0	95.2	95.7
pH	Min	8.1	7.8		7.4	7.5	7.8	7.4	8.1
	Max	8.4	7.9		7.8	8.5	8.0	8.3	8.4
	Mean	8.2	7.8		7.5	7.9	7.9	7.9	8.2
Turbidity (NTU)	Min	1.6	18.9		3.2	1.3	10.5	2.8	
	Max	3.2	28.1		5.0	2.5	17.4	5.1	
	Mean	2.3	23.6		3.9	1.8	12.4	3.6	

*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	Sep 29, 2023	Sep 30, 2023	Oct 1, 2023	Oct 2, 2023	Oct 3, 2023	Oct 4, 2023	Oct 5, 2023
The Forks*	169	169	165	162	162	154	158
Talmage USGS 11462080	142	149	158	156	149	147	148
Hopland USGS 11462500	159	160	159	155	154	147	146
Cloverdale USGS 11463000	149	150	152	148	147	141	136
Healdsburg USGS 11464000	142	143	148	142	137	133	129
Hacienda USGS 11467000	187	184	189	188	182	176	173

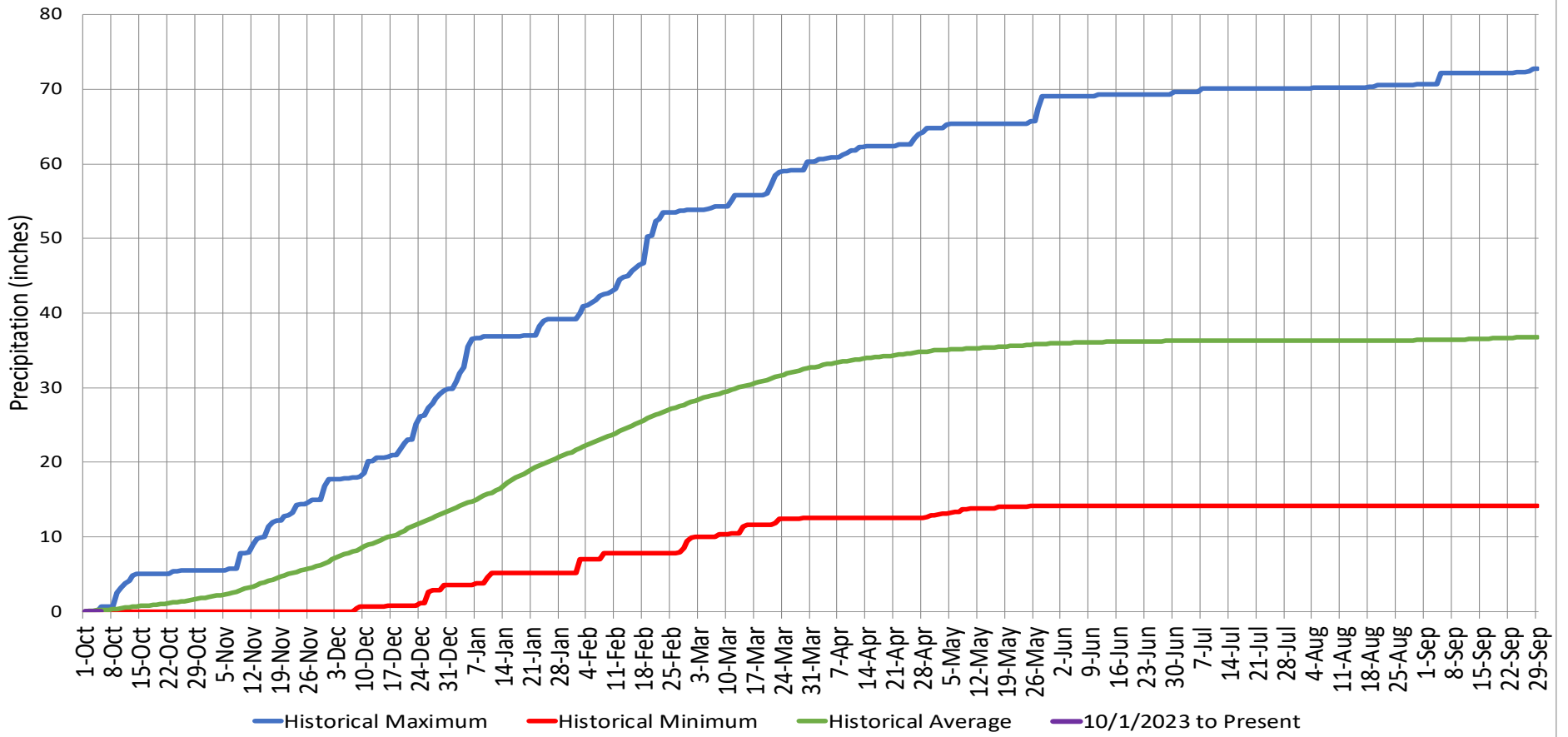
*West Fork(USGS 11461000) + East Fork (Coyote Valley Dam Release)



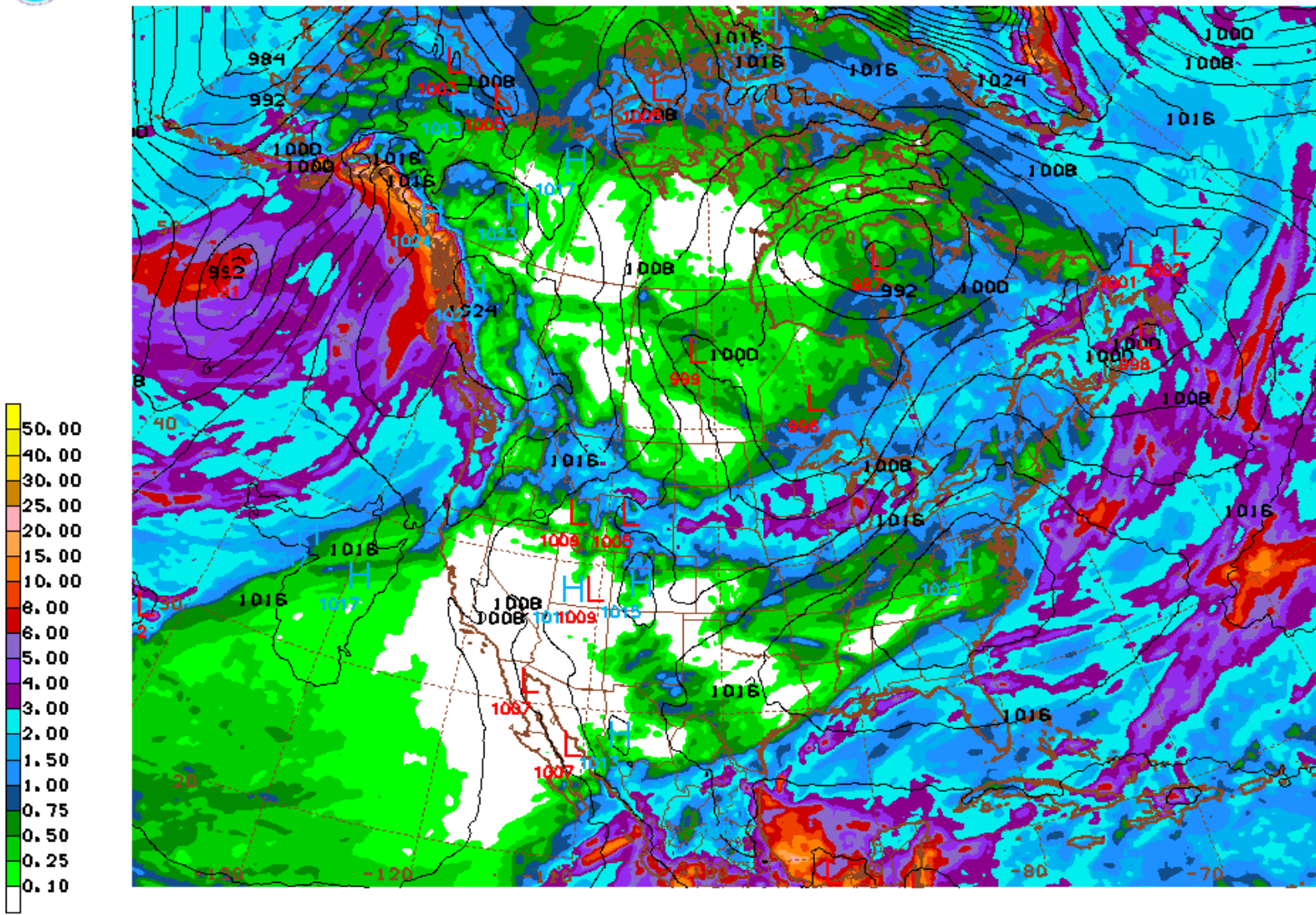
Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2023 - Oct 5, 2023	0.06
Last 7 Days*	0.06

Cumulative Precipitation Comparison of Current Year versus Historic Record



6FS 10/09/23 12UTC 384HR FCST VALID WED 10/25/23 12UTC NOAA/NWS/NCEP



6FS WED 231025/1200V384 EMSL (4MB), 384HR ACCUMULATED PRECIP (IN)

Date Range
Oct 9 - Oct 25, 2023

Forecasted Cumulative (inches)
0.10

Russian River Fisheries Monitoring



A video camera was installed in the Mirabel Fish ladder on September 1, 2023. Video has been reviewed through October 7, 2023. The first adult Chinook passing through the ladder was observed on September 22, 2023. In total, 53 adult Chinook have been observed. No adult steelhead or adult Coho have been observed.