



**State Water Resources Control Board
 Temporary Urgency Change Order (12/14/2022)
 Russian River Hydrologic Report
 May 12, 2023 - May 18, 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).

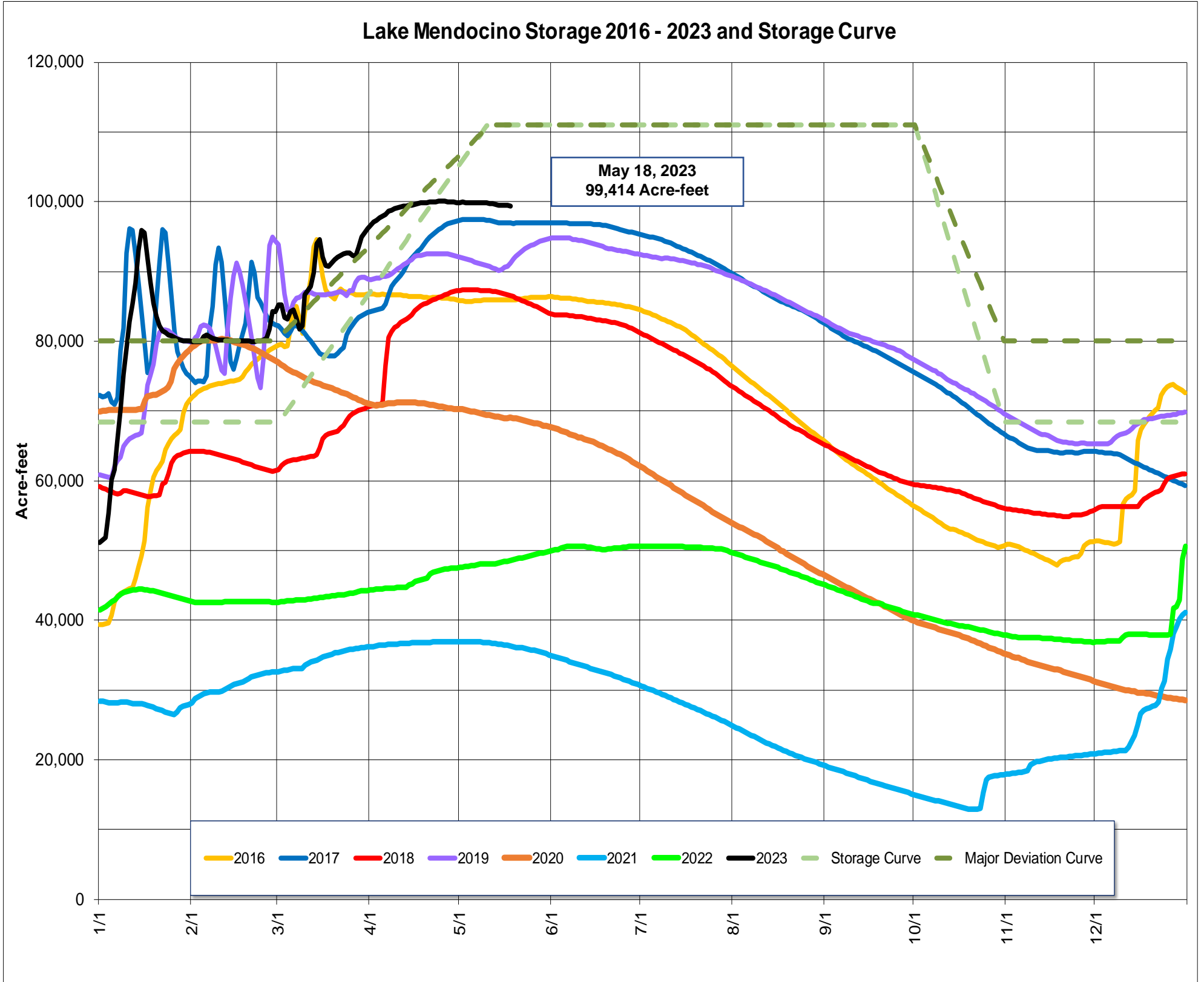
Instream Flow Requirements as of May 18, 2023

Basis	Reach	Instantaneous (cfs)	5-day Average (cfs)
Modified Per Order: Normal Condition	Upper Russian River	185	-
D-1610: Normal Condition	Dry Creek	80	-
Modified Per Order: Normal Condition	Lower Russian River	125	-

Upper and Lower Russian River based on criteria as established in the Order issued 12/14/2022.

Lake Mendocino

Lake Mendocino Storage 2016 - 2023 and Storage Curve

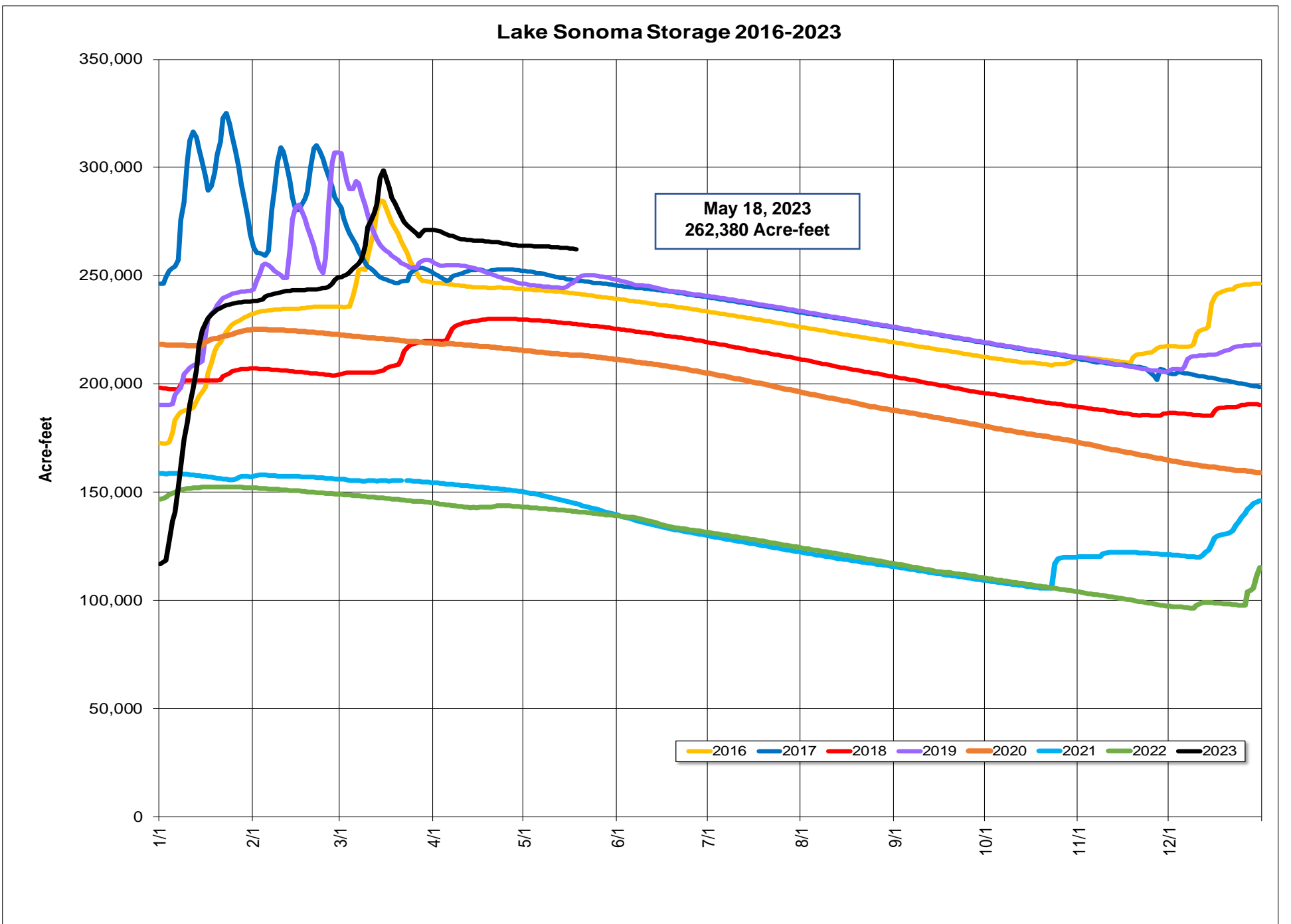


Storage (acre-feet)	May 18, 2023	99,414	
Change in Storage (acre-feet)	Last 30 days	-393	Average Daily Rate
	Last 7 days	-321	-46
Daily Inflow (cfs)	Last 7 days	Min	126
		Max	171
		Mean	151
Release (cfs)	Last 7 days	Min	158
		Max	169
		Mean	164

Lake Sonoma



Nathan Baskett, March 3, 2011



Storage (acre-feet)	May 18, 2023	262,380	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
	Last 7 days	-3,637	-121
Daily Inflow (cfs)	Last 7 days	Min	9
		Max	79
		Mean	51
Release (cfs)	Last 7 days	Min	93
		Max	99
		Mean	94

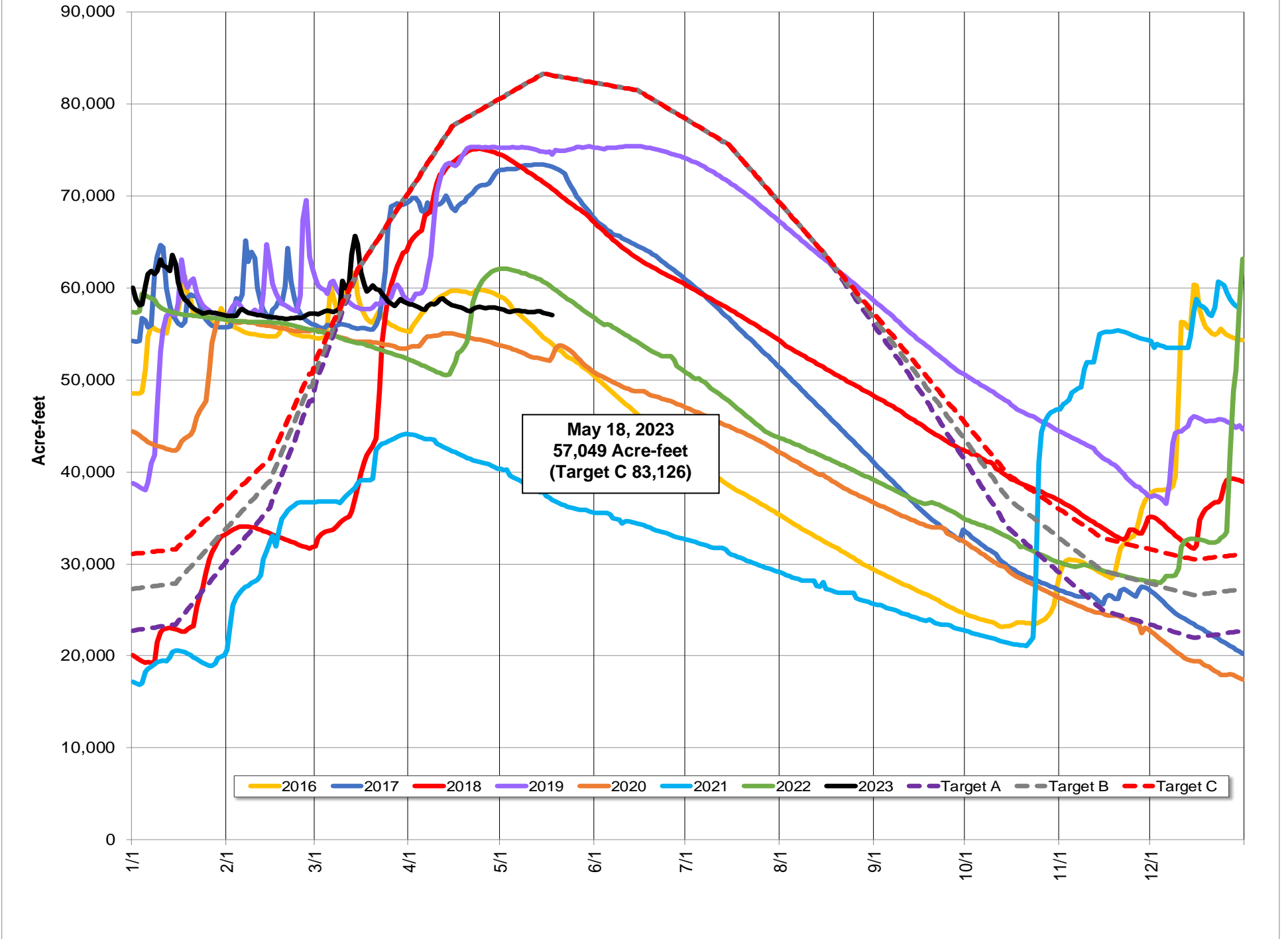
Potter Valley Project

PVP Diversion (cfs)	May 18, 2023	130
---------------------	--------------	-----

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2022 - May 19, 2023	593,412	2,580
	Last 7 days	8,410	1,201

*Inflow calculation based on criteria established in D1610

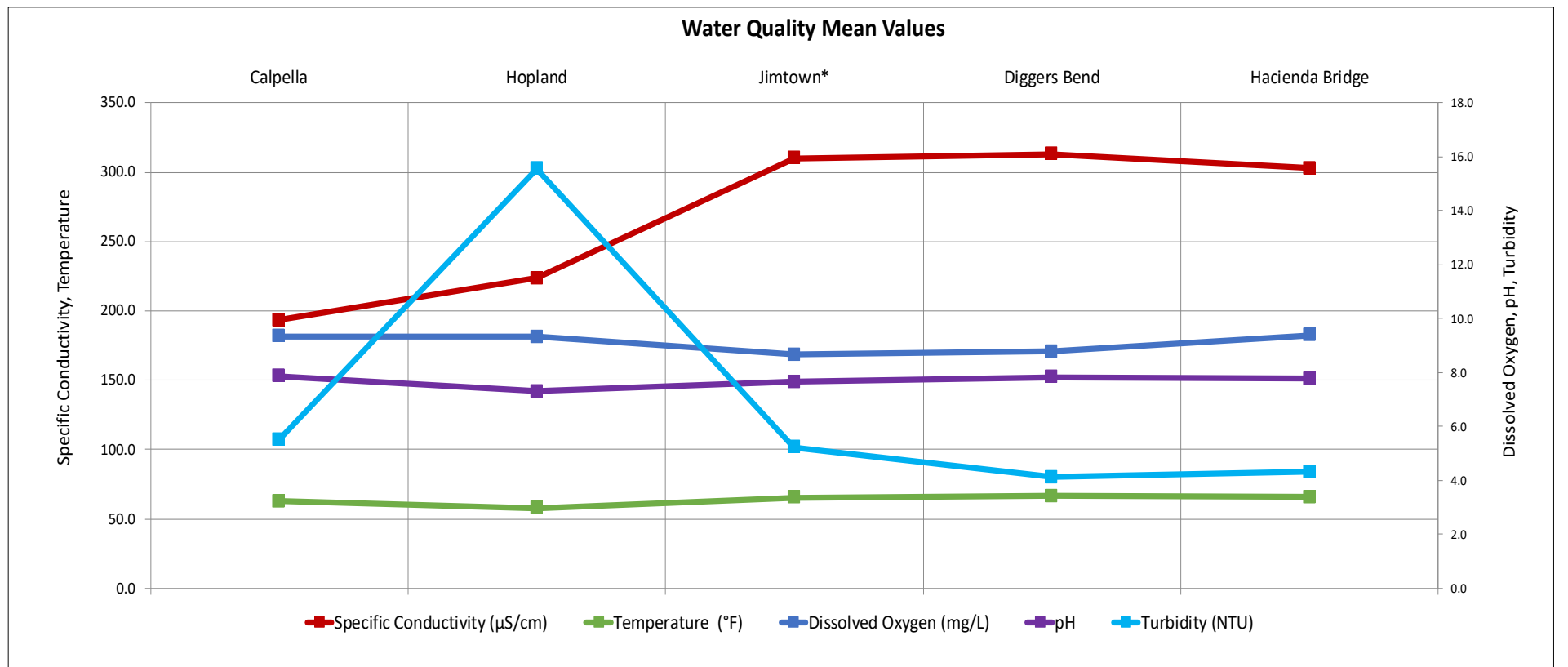
Lake Pillsbury Storage 2016 - 2023 and Target Storage Scenarios



Russian River Flows (May 12, 2023 - May 18, 2023)

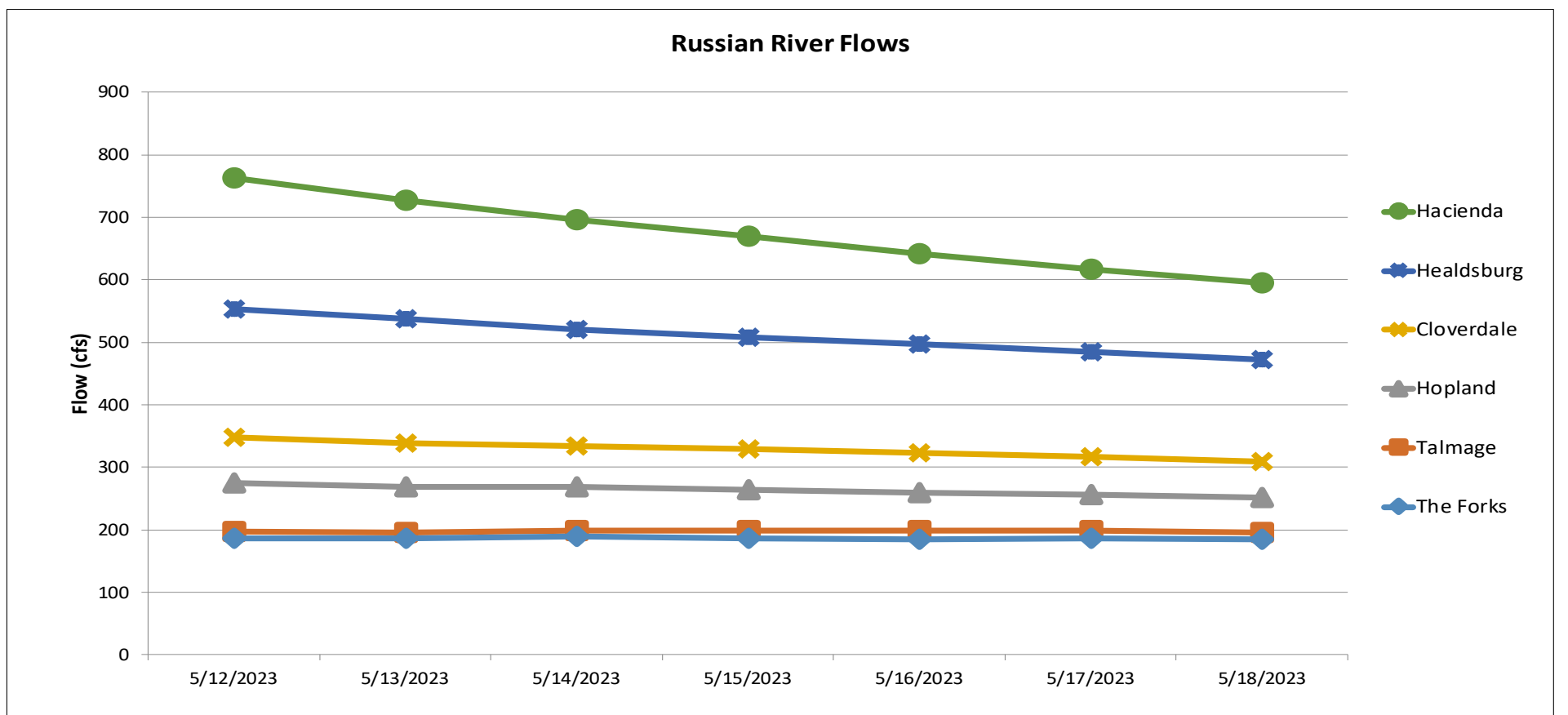
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	57.0	54.3		60.3	60.8		60.8	
	Max	66.9	60.1		69.1	70.2		68.7	
	Mean	62.7	57.8		65.3	66.3		65.7	
Specific Conductivity (µS/cm)	Min	180.0	221.0		309.0	311.0		296.0	
	Max	207.0	227.0		312.0	315.0		305.0	
	Mean	193.4	223.6		310.2	313.0		302.9	
Dissolved Oxygen (mg/L)	Min	8.8	8.8		7.9	7.6		7.9	
	Max	10.2	10.3		9.9	10.2		10.9	
	Mean	9.3	9.3		8.7	8.8		9.4	
Dissolved Oxygen (% Saturation)	Min	93.2	85.2		83.1	80.9		84.3	
	Max	103.5	101.3		106.0	110.6		117.3	
	Mean	96.7	91.2		92.4	94.7		100.6	
pH	Min	7.8	7.2		7.5	7.7		7.6	
	Max	8.1	7.4		7.8	8.0		8.0	
	Mean	7.9	7.3		7.7	7.8		7.8	
Turbidity (NTU)	Min	3.0	13.7		4.0	3.1		3.4	
	Max	11.6	17.9		7.0	5.5		5.2	
	Mean	5.5	15.6		5.2	4.1		4.3	

*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	May 12, 2023	May 13, 2023	May 14, 2023	May 15, 2023	May 16, 2023	May 17, 2023	May 18, 2023
The Forks*	187	187	189	186	185	187	185
Talmage USGS 11462080	198	196	199	199	199	198	196
Hopland USGS 11462500	275	269	269	263	259	257	252
Cloverdale USGS 11463000	347	339	334	329	322	317	309
Healdsburg USGS 11464000	554	537	521	508	496	484	472
Hacienda USGS 11467000	763	728	696	670	642	616	595

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

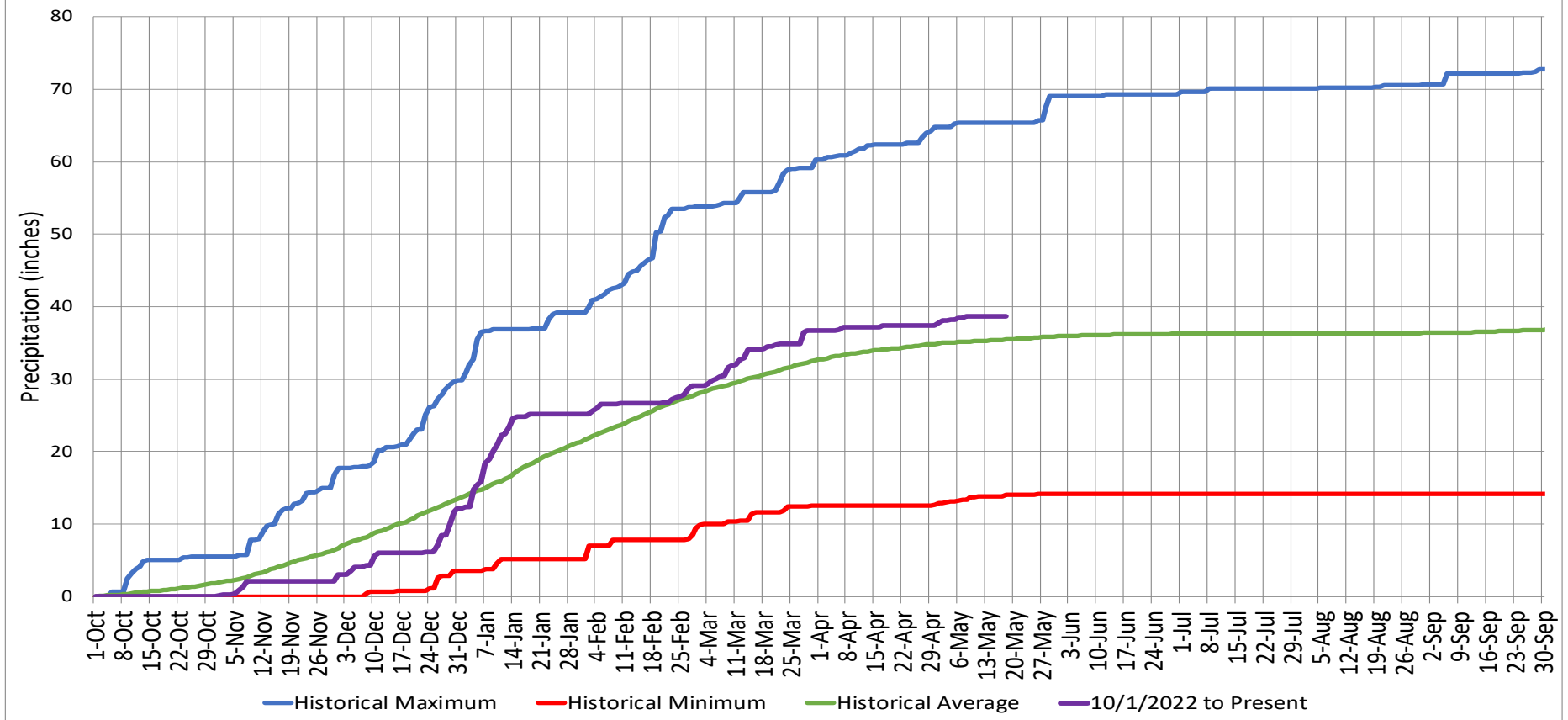


Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

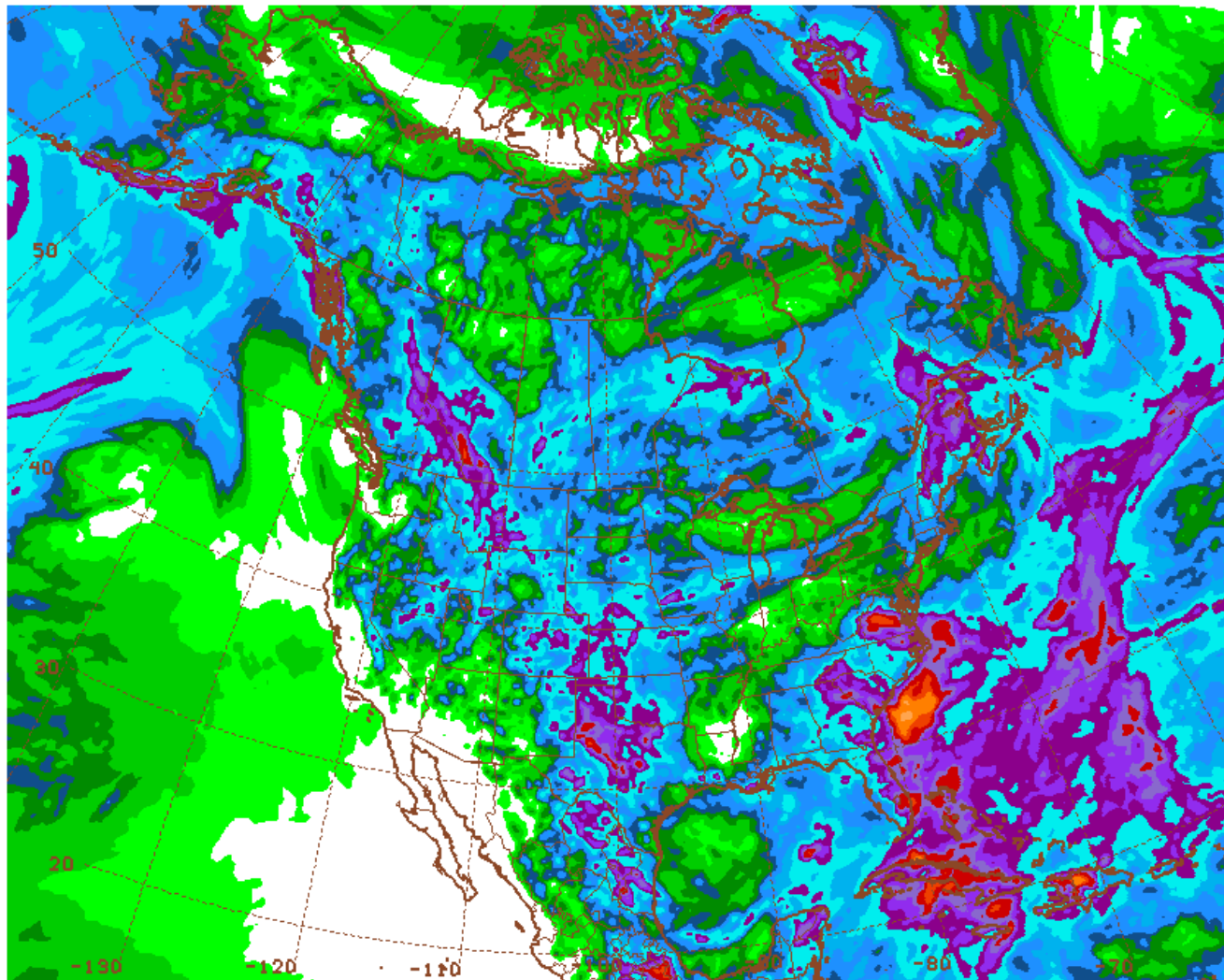
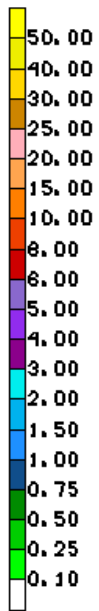
Date Range	Cumulative (inches)
Oct 1, 2022 - May 18, 2023	38.62
Last 7 Days*	0.00

Cumulative Precipitation Comparison of Current Year versus Historic Record



Global Forecast System Model 16-day Cumulative Precipitation Forecast

GFS 05/23/23 12UTC 384HR FCST VALID THU 06/08/23 12UTC NOAA/NWS/NCEP



GFS THU 230608/1200Y384 384HR ACCUMULATED PRECIP (IN)

Date Range
May 23 - Jun 8, 2023

Forecasted Cumulative (inches)
0.00