



**State Water Resources Control Board
 Temporary Urgency Change Order (12/14/2022)
 Russian River Hydrologic Report
 April 28, 2023 - May 4, 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).

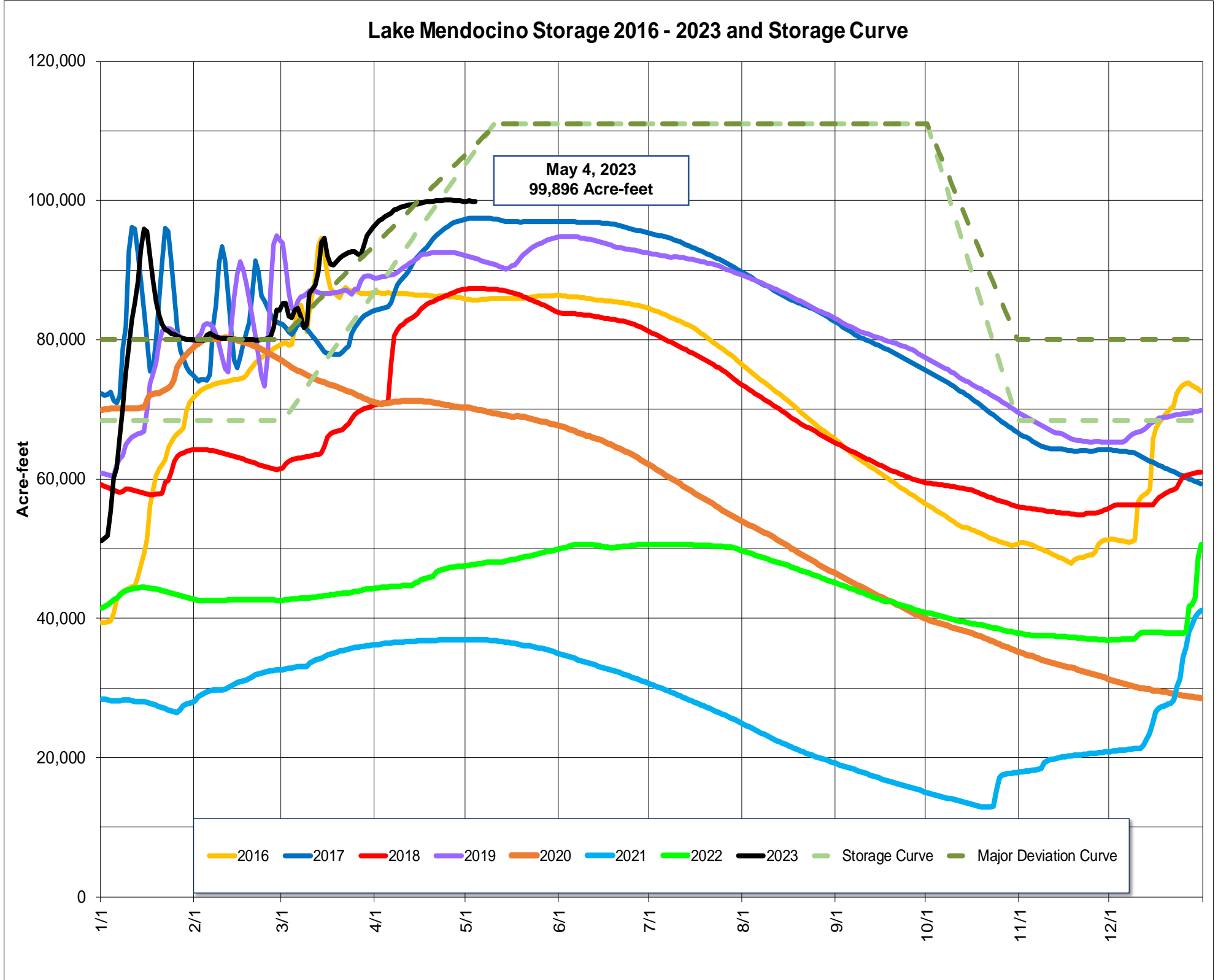
Instream Flow Requirements as of May 4, 2023

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

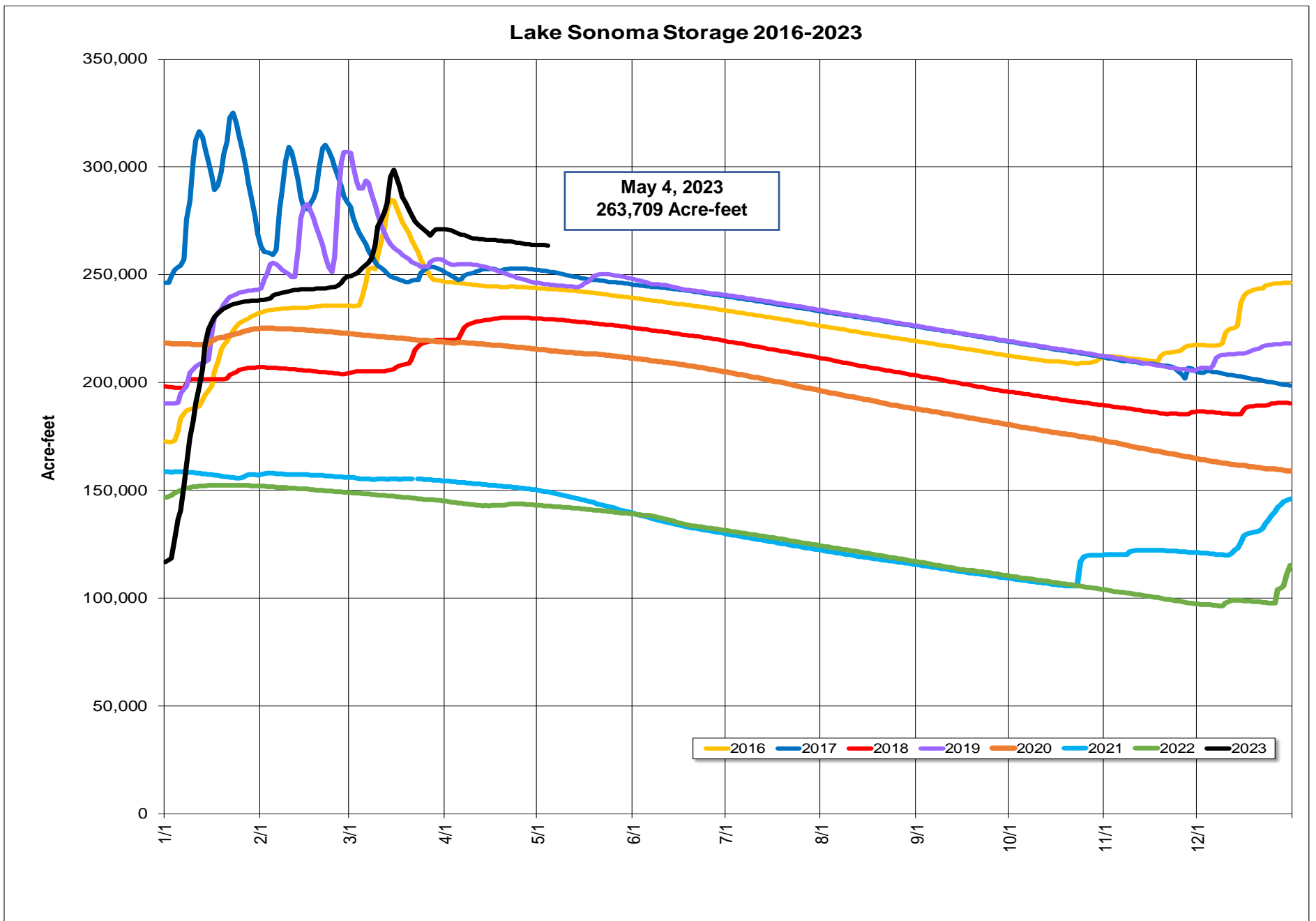


Storage (acre-feet)	May 4, 2023	99,896	
Change in Storage (acre-feet)	Last 30 days	2,210	Average Daily Rate 74
	Last 7 days	-107	-15
Daily Inflow (cfs)	Last 7 days	Min	128
		Max	176
		Mean	148
Release (cfs)	Last 7 days	Min	144
		Max	155
		Mean	149

Lake Sonoma



Nathan Baskett, March 3, 2011



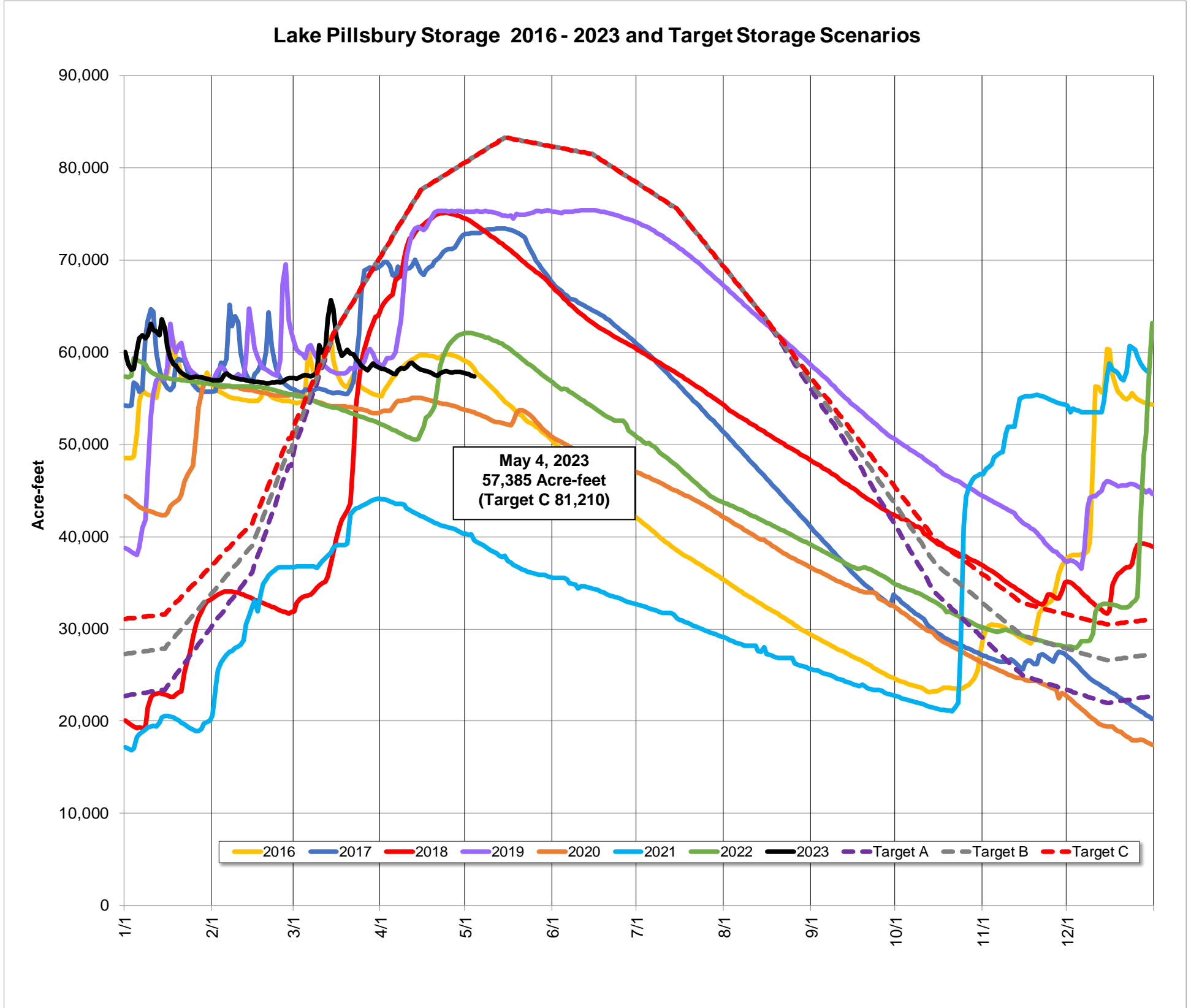
Storage (acre-feet)	May 4, 2023	263,709	
Change in Storage (acre-feet)	Last 30 days	-6,204	Average Daily Rate
	Last 7 days	-444	-63
Daily Inflow (cfs)	Last 7 days	Min	66
		Max	131
		Mean	92
Release (cfs)	Last 7 days	Min	109
		Max	152
		Mean	124

Potter Valley Project

PVP Diversion (cfs)	May 4, 2023	90
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2022 - May 2, 2023	574,350	2,659
	Last 7 days	11,919	1,703

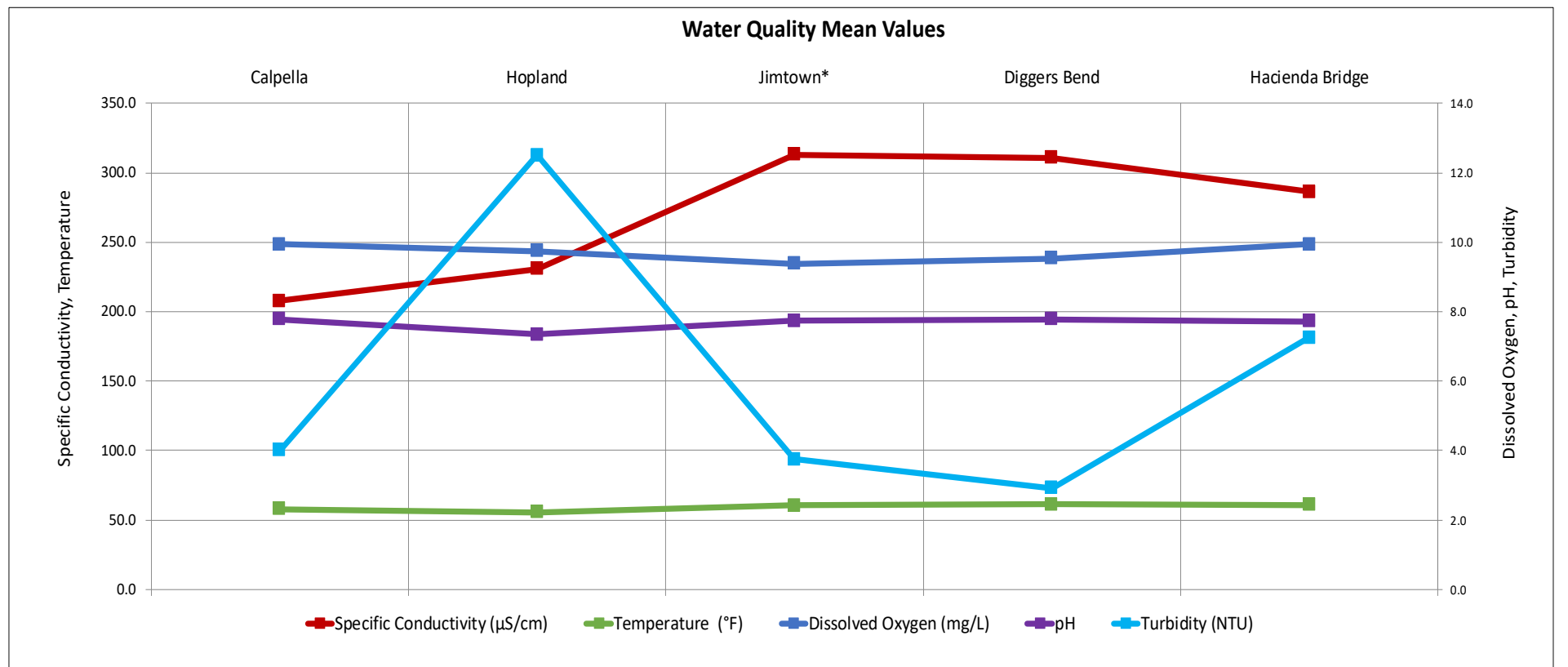
*Inflow calculation based on criteria established in D1610



Russian River Flows (April 28, 2023 - May 4, 2023)

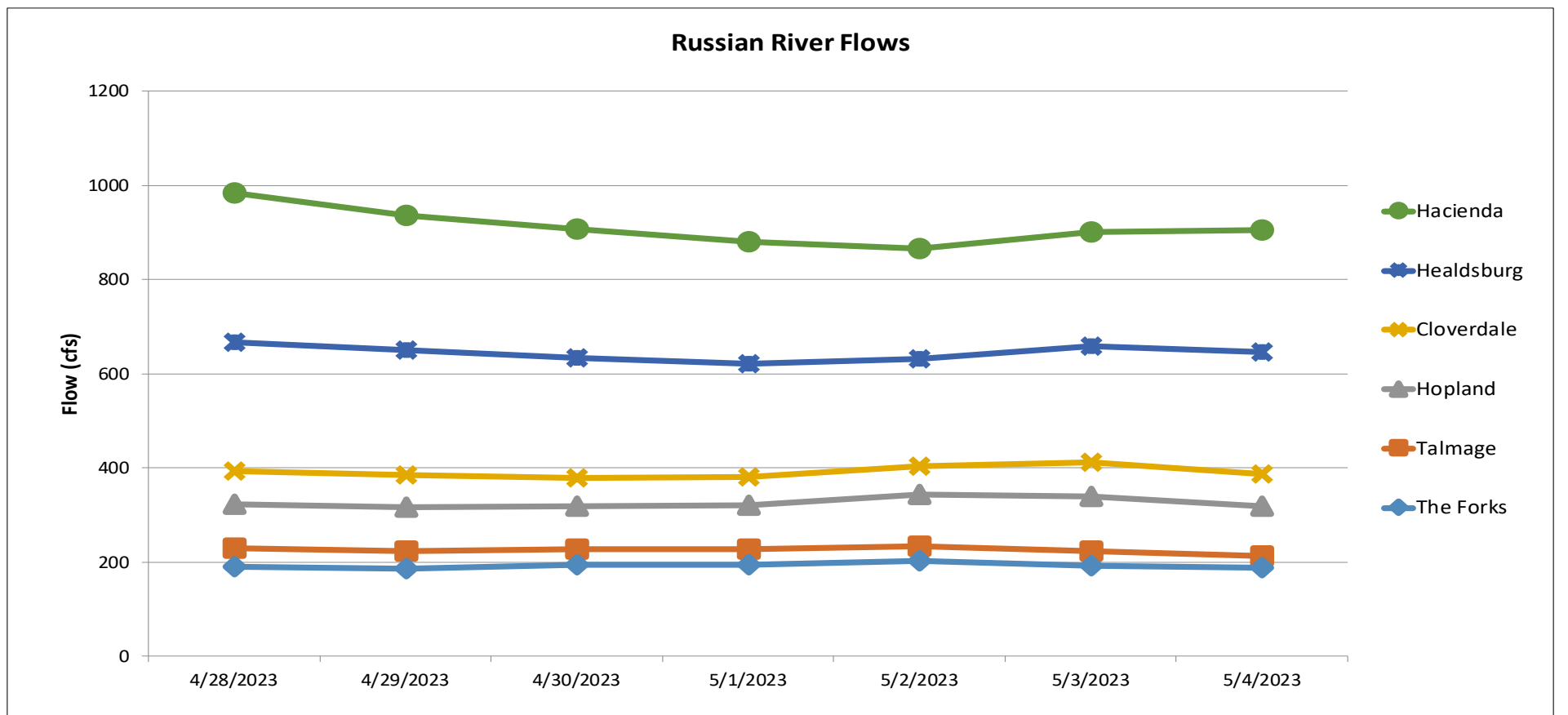
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	54.3	52.2		56.1	56.5		56.8	
	Max	63.9	59.9		66.6	67.1		65.5	
	Mean	57.9	55.4		60.5	61.1		61.0	
Specific Conductivity (µS/cm)	Min	201.0	226.0		300.0	302.0		281.0	
	Max	214.0	234.0		319.0	316.0		292.0	
	Mean	207.8	230.9		313.0	311.0		286.2	
Dissolved Oxygen (mg/L)	Min	9.2	8.9		8.4	8.2		8.9	
	Max	10.8	10.6		10.5	11.1		11.1	
	Mean	9.9	9.8		9.4	9.5		9.9	
Dissolved Oxygen (% Saturation)	Min	92.9	86.7		85.7	84.5		90.2	
	Max	109.6	106.3		111.4	119.9		117.6	
	Mean	97.3	92.5		94.7	96.9		101.0	
pH	Min	7.6	7.3		7.6	7.6		7.6	
	Max	8.2	7.4		7.9	8.1		7.9	
	Mean	7.8	7.3		7.7	7.8		7.7	
Turbidity (NTU)	Min	3.3	11.0		2.7	1.9		5.5	
	Max	6.3	15.1		5.5	4.5		10.3	
	Mean	4.0	12.5		3.7	2.9		7.2	

*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	Apr 28, 2023	Apr 29, 2023	Apr 30, 2023	May 1, 2023	May 2, 2023	May 3, 2023	May 4, 2023
The Forks*	191	186	194	194	203	192	188
Talmage USGS 11462080	229	223	228	227	235	223	213
Hopland USGS 11462500	323	316	318	321	344	339	318
Cloverdale USGS 11463000	394	384	379	381	405	413	388
Healdsburg USGS 11464000	667	651	633	621	632	659	647
Hacienda USGS 11467000	984	936	906	880	866	901	905

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

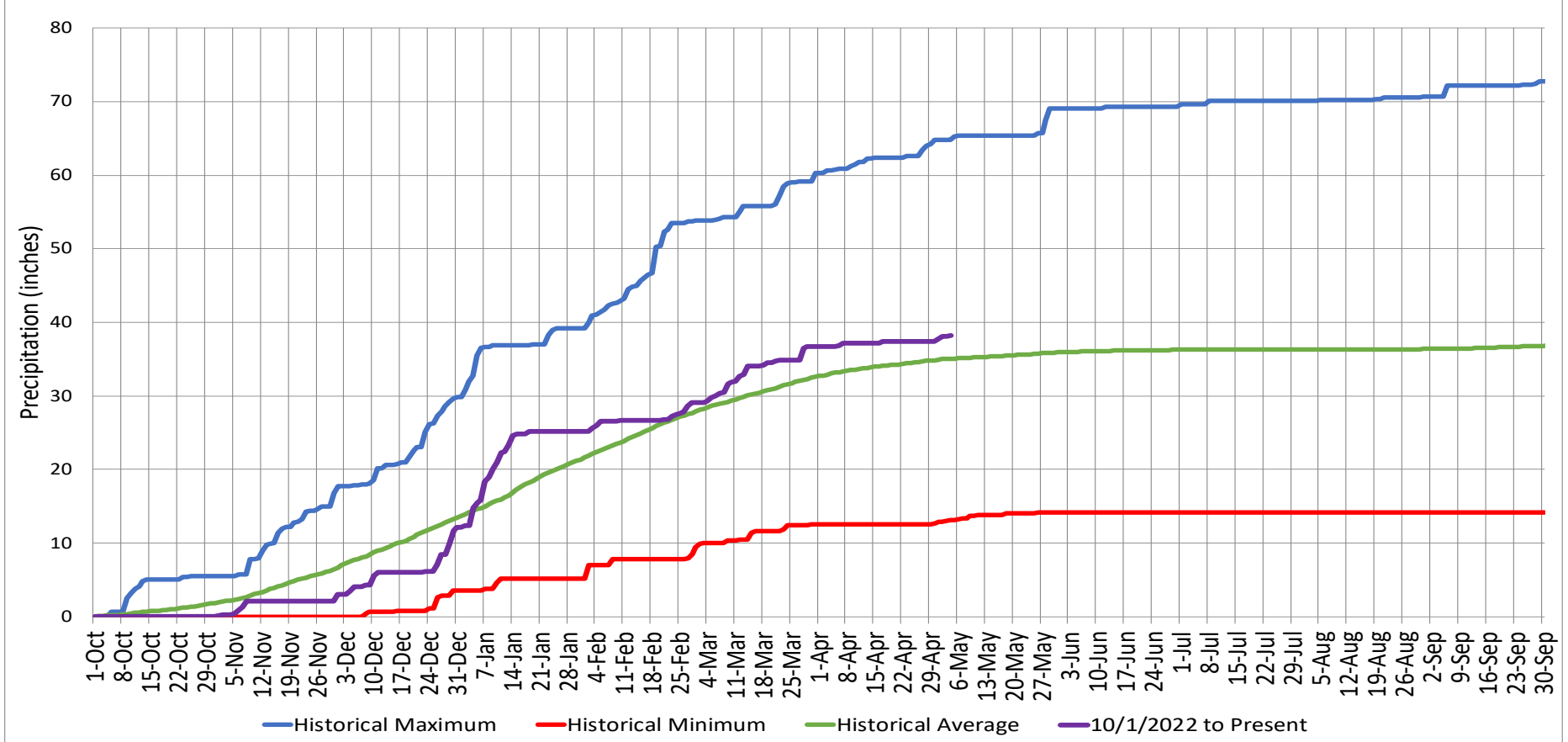


Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

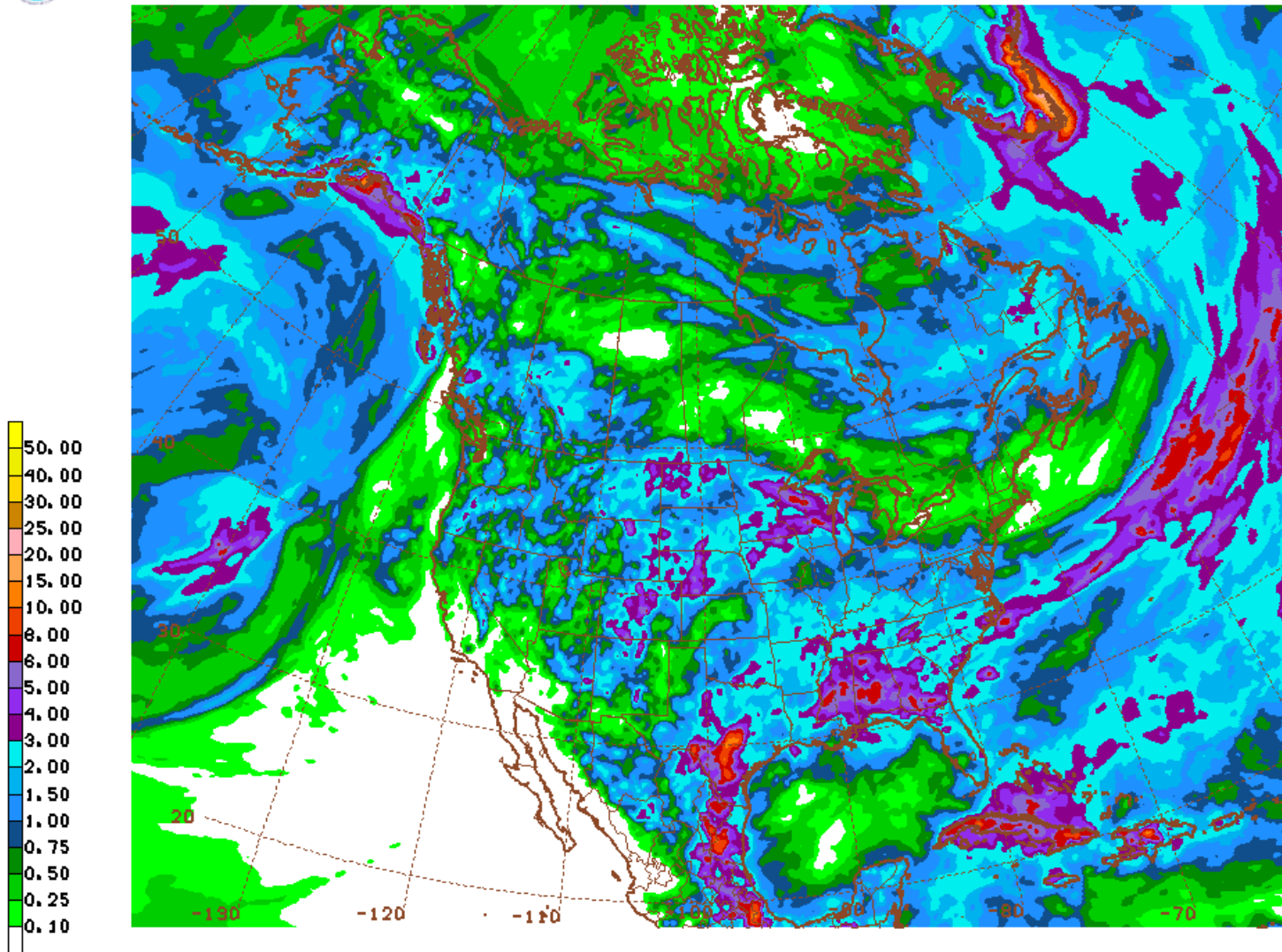
Date Range	Cumulative (inches)
Oct 1, 2022 - May 4, 2023	38.16
Last 7 Days*	0.77

Cumulative Precipitation Comparison of Current Year versus Historic Record



Global Forecast System Model 16-day Cumulative Precipitation Forecast

GFS 05/10/23 12UTC 384HR FCST VALID FRI 05/26/23 12UTC NOAA/NWS/NCEP



GFS FRI 230526/1200Y384 384HR ACCUMULATED PRECIP (IN)

Date Range	Forecasted Cumulative (inches)
May 10 - May 26, 2023	0.00