



State Water Resources Control Board
 Temporary Urgency Change Order (12/14/2022)
 Russian River Hydrologic Report
 March 31, 2023 - April 6, 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).

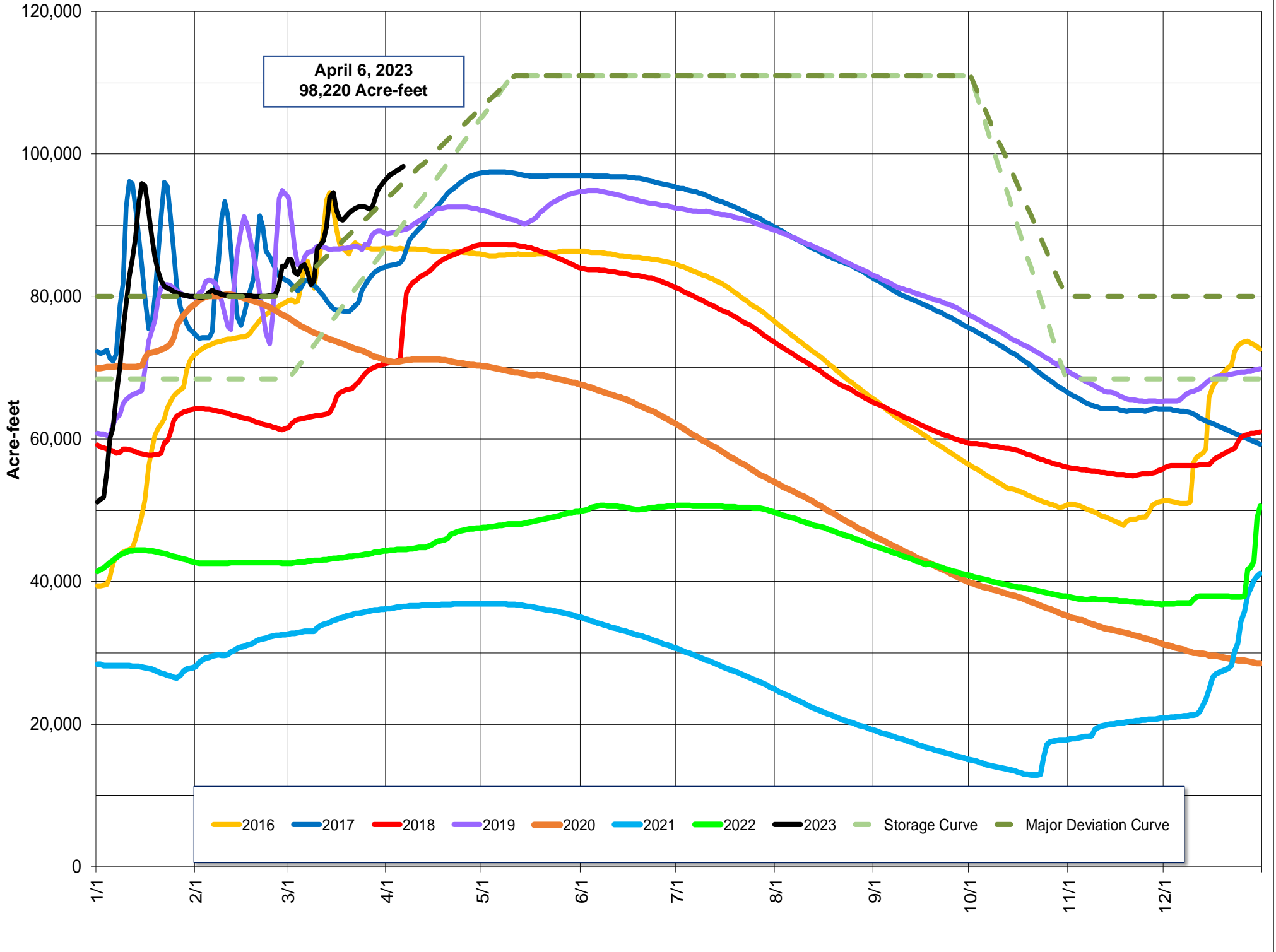
Instream Flow Requirements as of April 6, 2023

Basis	Reach	Instantaneous (cfs)	5-day Average (cfs)
Modified Per Order: Normal Condition	Upper Russian River	185	-
D-1610: Normal Condition	Dry Creek	75	-
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

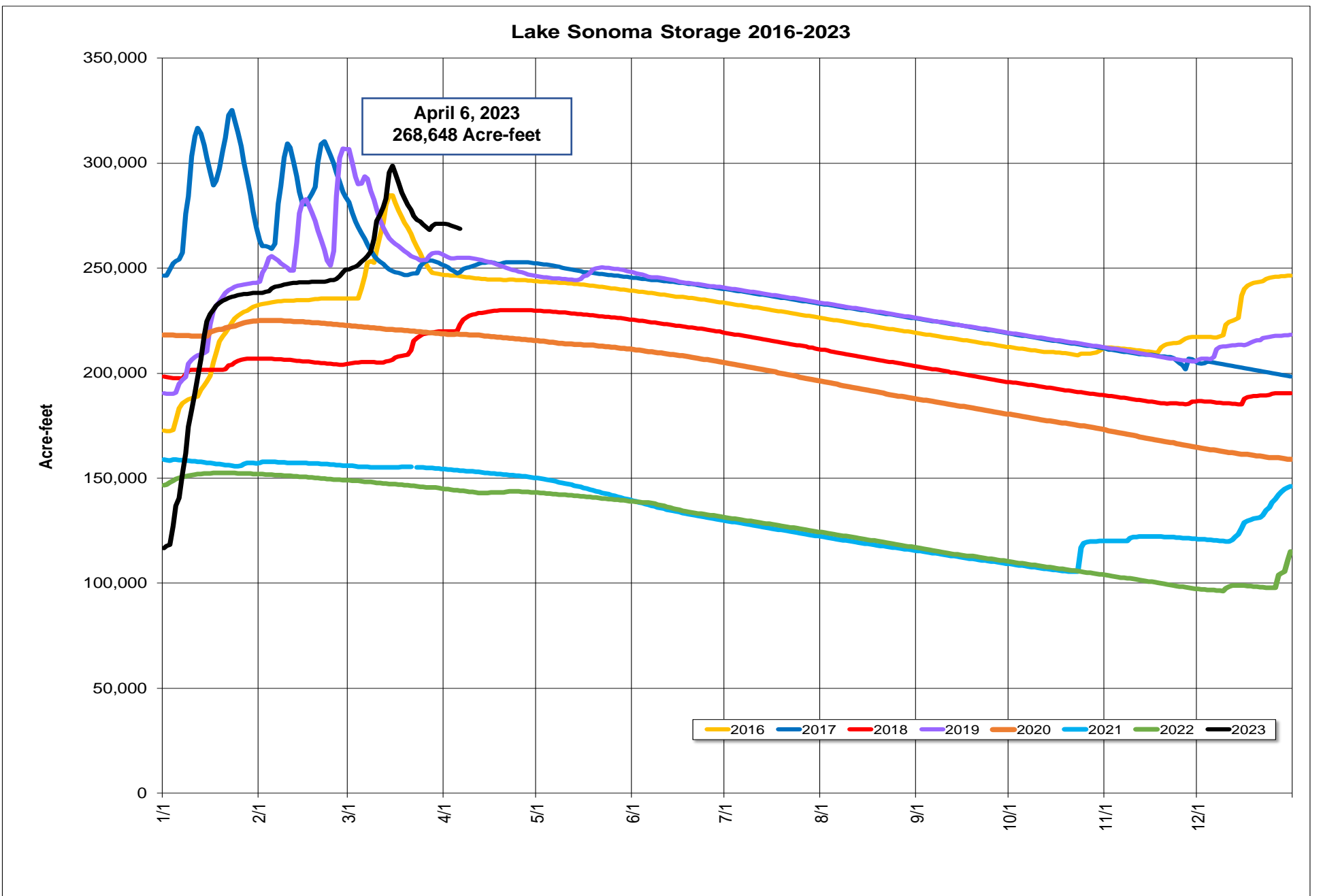


Storage (acre-feet)	April 6, 2023	98,220	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
	Last 7 days	14,897	497
Daily Inflow (cfs)	Last 7 days	Min	196
		Max	340
		Mean	252
Release (cfs)	Last 7 days	Min	50
		Max	59
		Mean	53

Lake Sonoma



Nathan Baskett, March 3, 2011



Storage (acre-feet)	April 6, 2023	268,648	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	12,925	431
	Last 7 days	-2,393	-342
Daily Inflow (cfs)	Last 7 days	Min	375
		Max	785
		Mean	542
Release (cfs)	Last 7 days	Min	694
		Max	808
		Mean	710

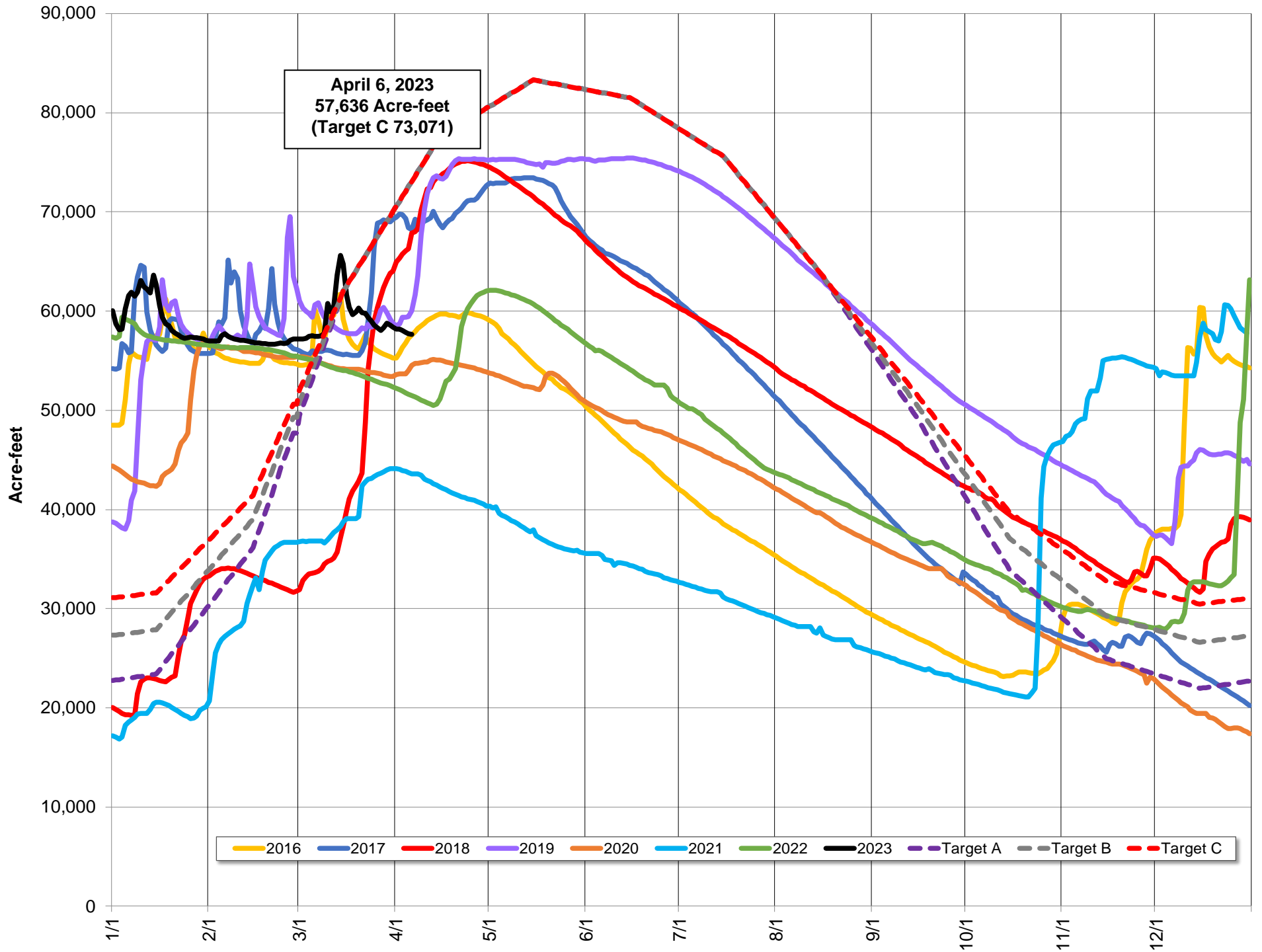
Potter Valley Project

PVP Diversion (cfs)	April 6, 2023	45
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2022 - April 11, 2023	499,494	2,657
	Last 7 days	16,094	2,299

*Inflow calculation based on criteria established in D1610

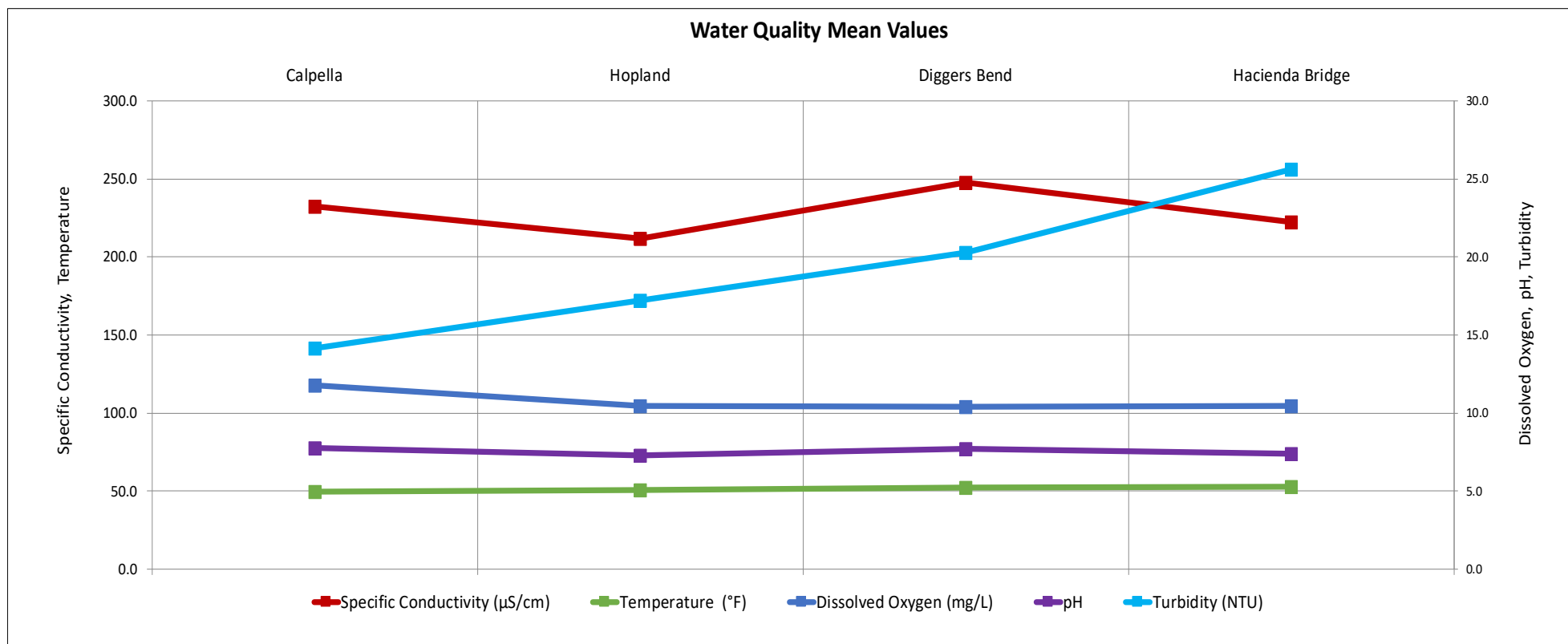
Lake Pillsbury Storage 2016 - 2023 and Target Storage Scenarios



Russian River Flows (March 31, 2023 - April 6, 2023)

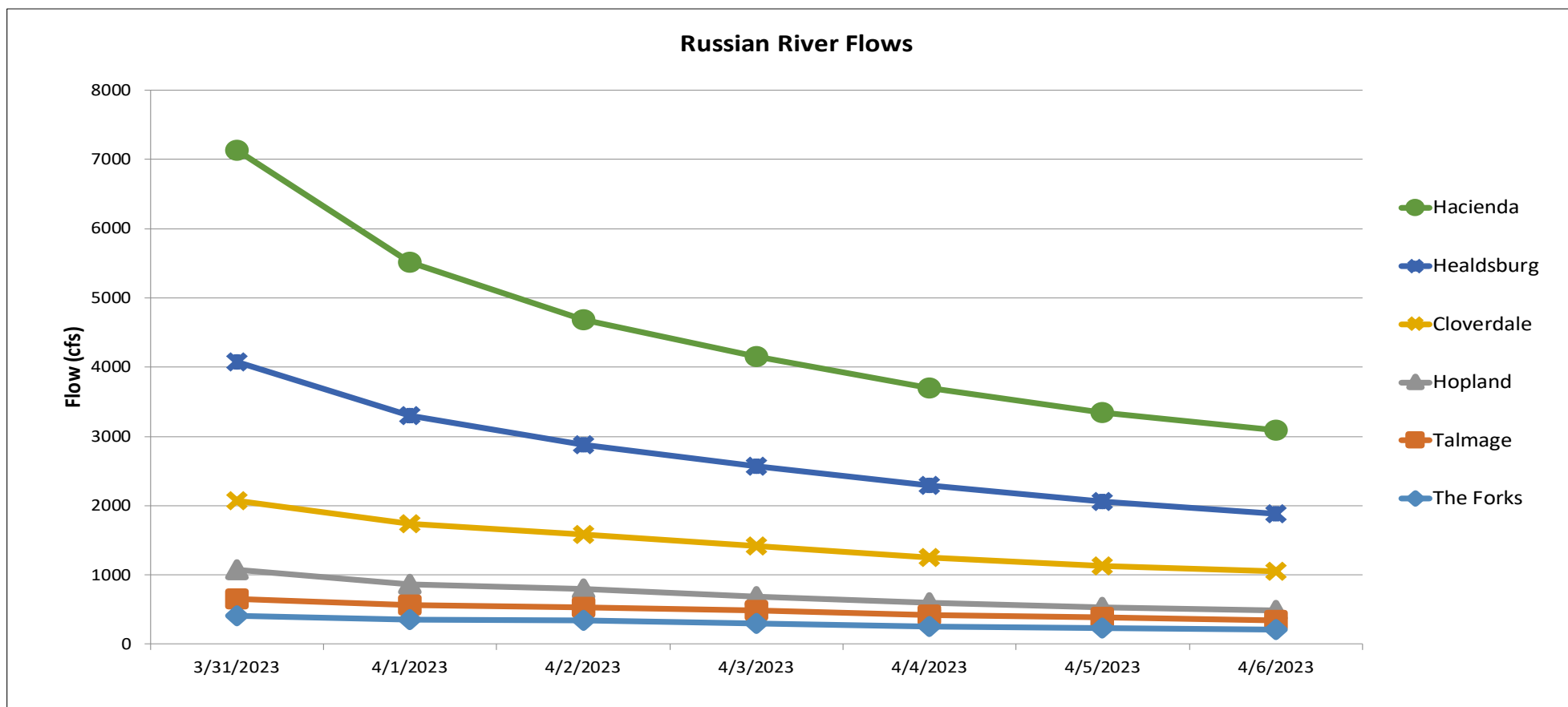
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	46.2	48.2		49.8	50.0		50.9	
	Max	52.7	52.7		55.2	54.9		54.1	
	Mean	49.9	50.8		52.3	52.4		52.7	
Specific Conductivity (µS/cm)	Min	207.0	182.0			191.0		192.0	
	Max	248.0	227.0			277.0		241.0	
	Mean	232.4	211.6			248.0		222.5	
Dissolved Oxygen (mg/L)	Min	10.7	10.0			10.1		10.2	
	Max	12.6	10.9			10.8		10.7	
	Mean	11.8	10.5			10.4		10.5	
Dissolved Oxygen (% Saturation)	Min	96.6	90.2			92.9		91.4	
	Max	110.0	96.3			97.4		99.0	
	Mean	104.0	93.7			95.0		96.0	
pH	Min	7.7	7.2			7.6		7.1	
	Max	7.9	7.3			7.9		7.6	
	Mean	7.8	7.3			7.7		7.4	
Turbidity (NTU)	Min	6.5	7.1			12.8		17.8	
	Max	20.6	37.1			42.9		46.8	
	Mean	14.2	17.2			20.3		25.6	

*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	Mar 31, 2023	Apr 1, 2023	Apr 2, 2023	Apr 3, 2023	Apr 4, 2023	Apr 5, 2023	Apr 6, 2023
The Forks*	406	356	341	294	257	230	214
Talmage USGS 11462080	653	560	534	486	423	382	342
Hopland USGS 11462500	1076	861	795	687	594	529	484
Cloverdale USGS 11463000	2071	1743	1584	1416	1257	1134	1047
Healdsburg USGS 11464000	4075	3299	2878	2569	2290	2061	1882
Hacienda USGS 11467000	7132	5515	4689	4148	3696	3350	3094

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

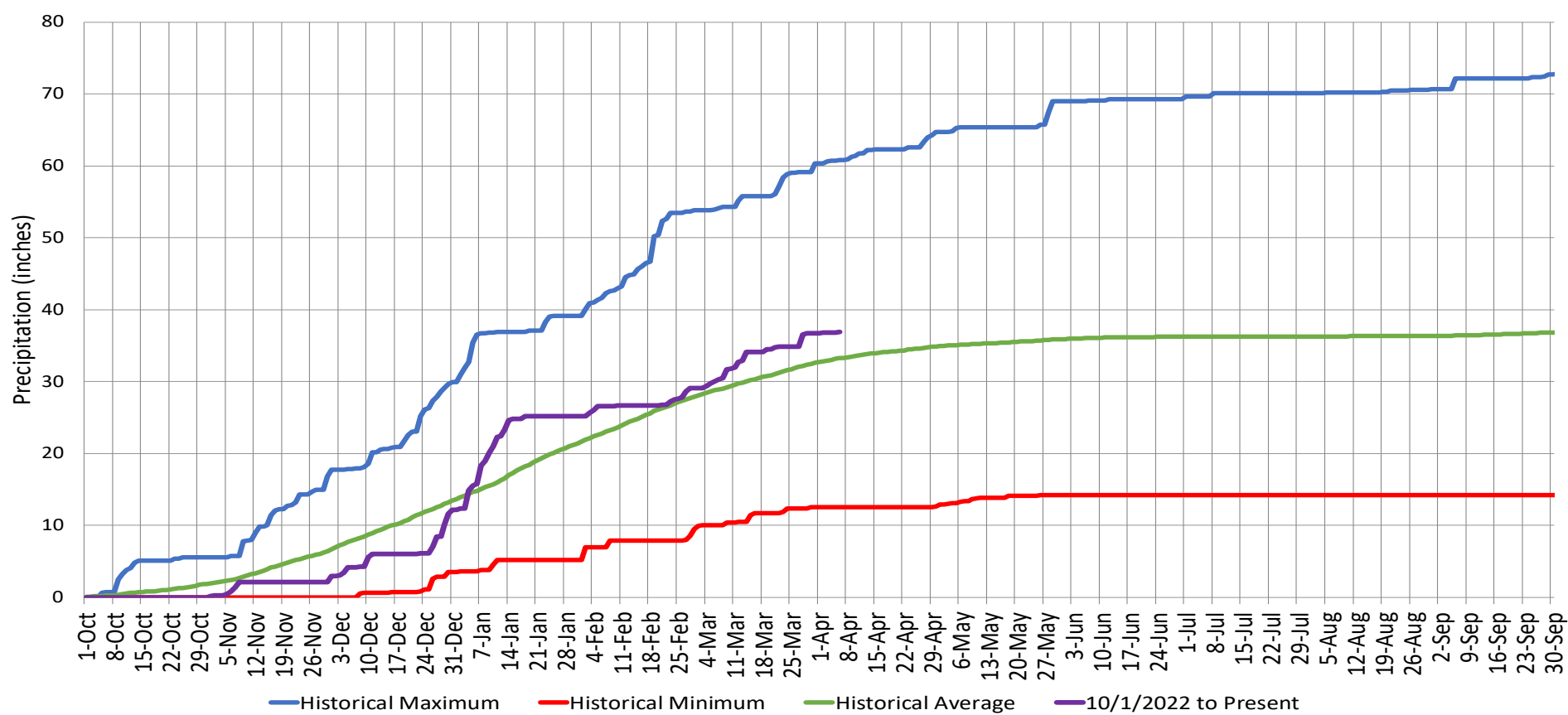


Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

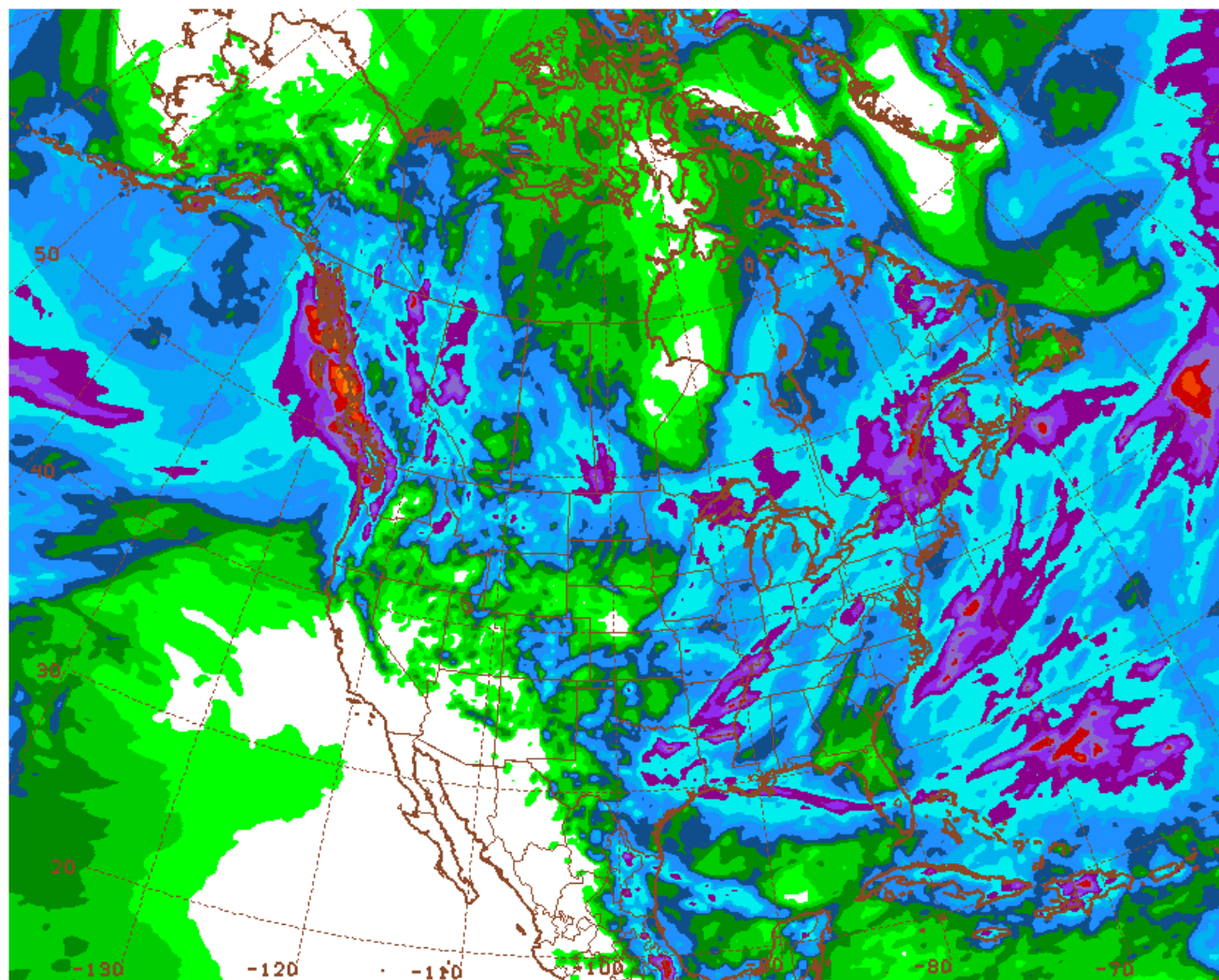
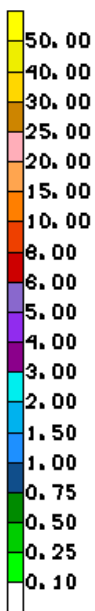
Date Range	Cumulative (inches)
Oct 1, 2022 - Apr 6, 2023	37.17
Last 7 Days*	0.16

Cumulative Precipitation Comparison of Current Year versus Historic Record



Global Forecast System Model 16-day Cumulative Precipitation Forecast

GFS 04/17/23 12UTC 384HR FCST VALID WED 05/03/23 12UTC NOAA/NWS/NCEP



GFS WED 230503/1200Y384 384HR ACCUMULATED PRECIP (IN)

Date Range
Apr 17 - May 3, 2023

Forecasted Cumulative (inches)
0.03