



**State Water Resources Control Board
 Temporary Urgency Change Order (12/14/2022)
 Russian River Hydrologic Report
 February 17, 2023 - February 23, 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).

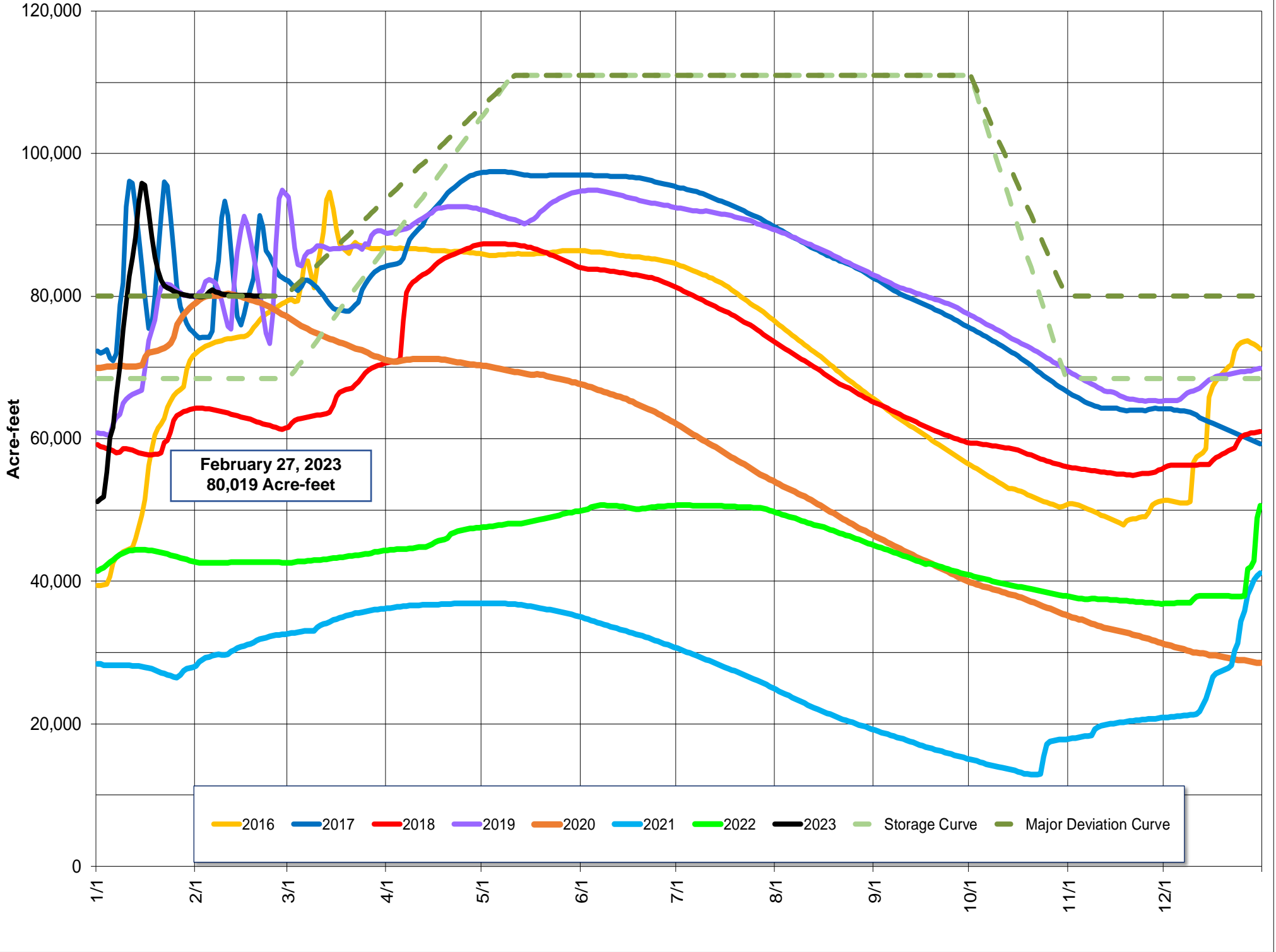
Instream Flow Requirements as of February 23, 2023

Basis	Reach	Instantaneous (cfs)	5-day Average (cfs)
Modified Per Order: Normal Condition	Upper Russian River	150	-
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

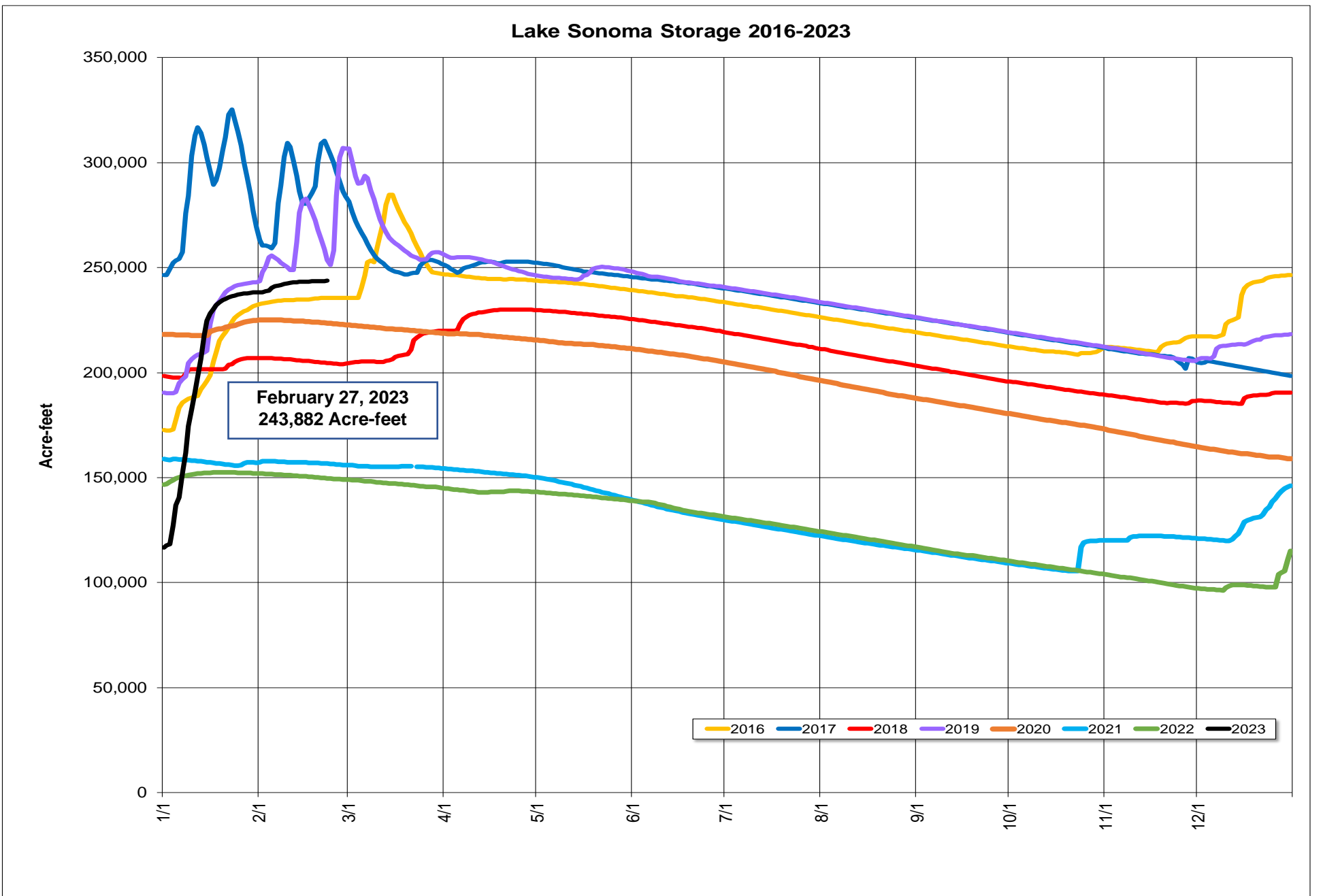


Storage (acre-feet)	February 23, 2023	80,019	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	-932	-31
	Last 7 days	-69	-10
Daily Inflow (cfs)	Last 7 days	Min	77
		Max	135
		Mean	105
Release (cfs)	Last 7 days	Min	104
		Max	106
		Mean	105

Lake Sonoma



Nathan Baskett, March 3, 2011



Storage (acre-feet)	February 23, 2023	243,882	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	7,160	239
	Last 7 days	473	68
Daily Inflow (cfs)	Last 7 days	Min	59
		Max	216
		Mean	125
Release (cfs)	Last 7 days	Min	79
		Max	80
		Mean	80

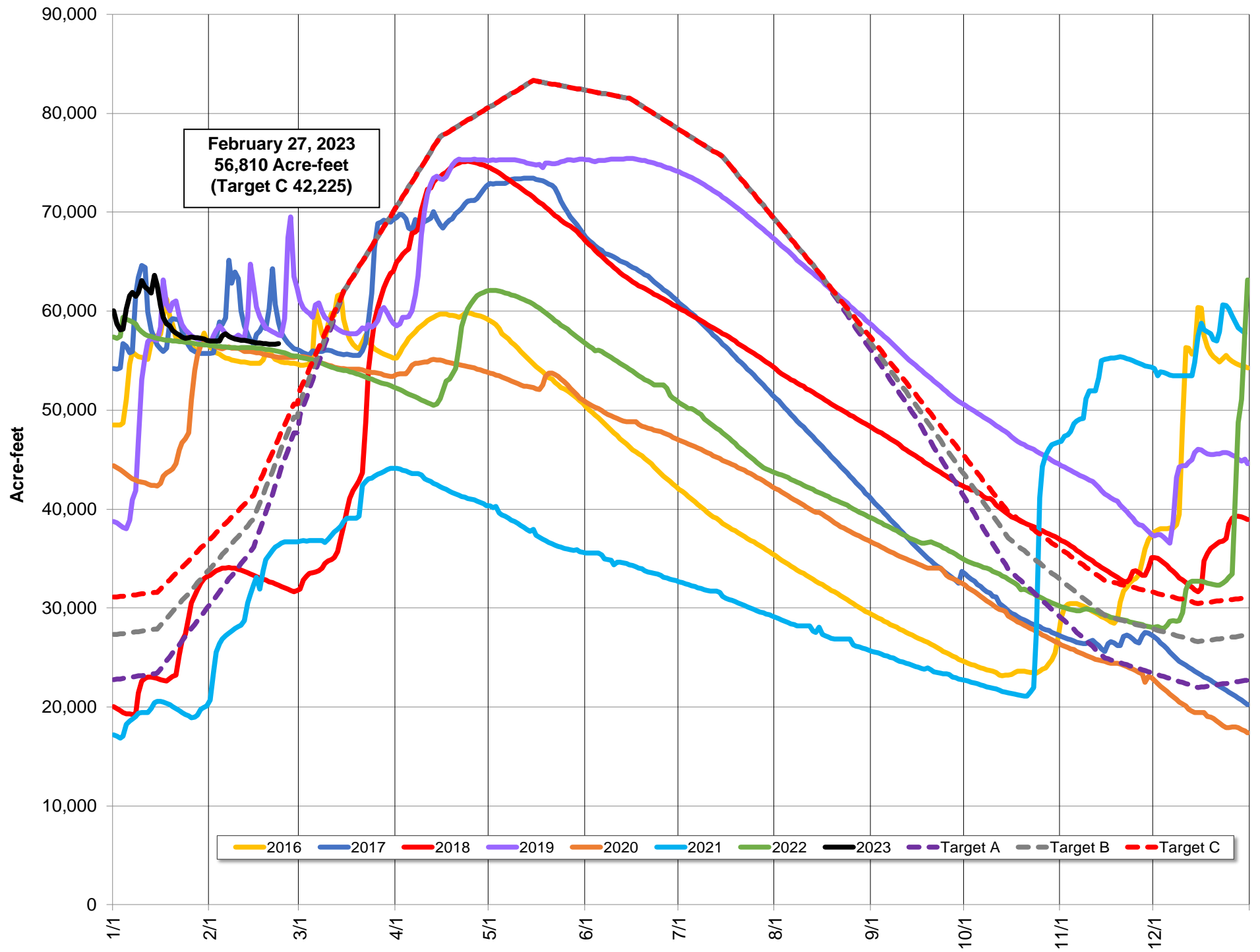
Potter Valley Project

PVP Diversion (cfs)	February 23, 2023	45
---------------------	-------------------	----

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2022 - February 23, 2023	294,576	2,018
	Last 7 days	4,557	651

*Inflow calculation based on criteria established in D1610

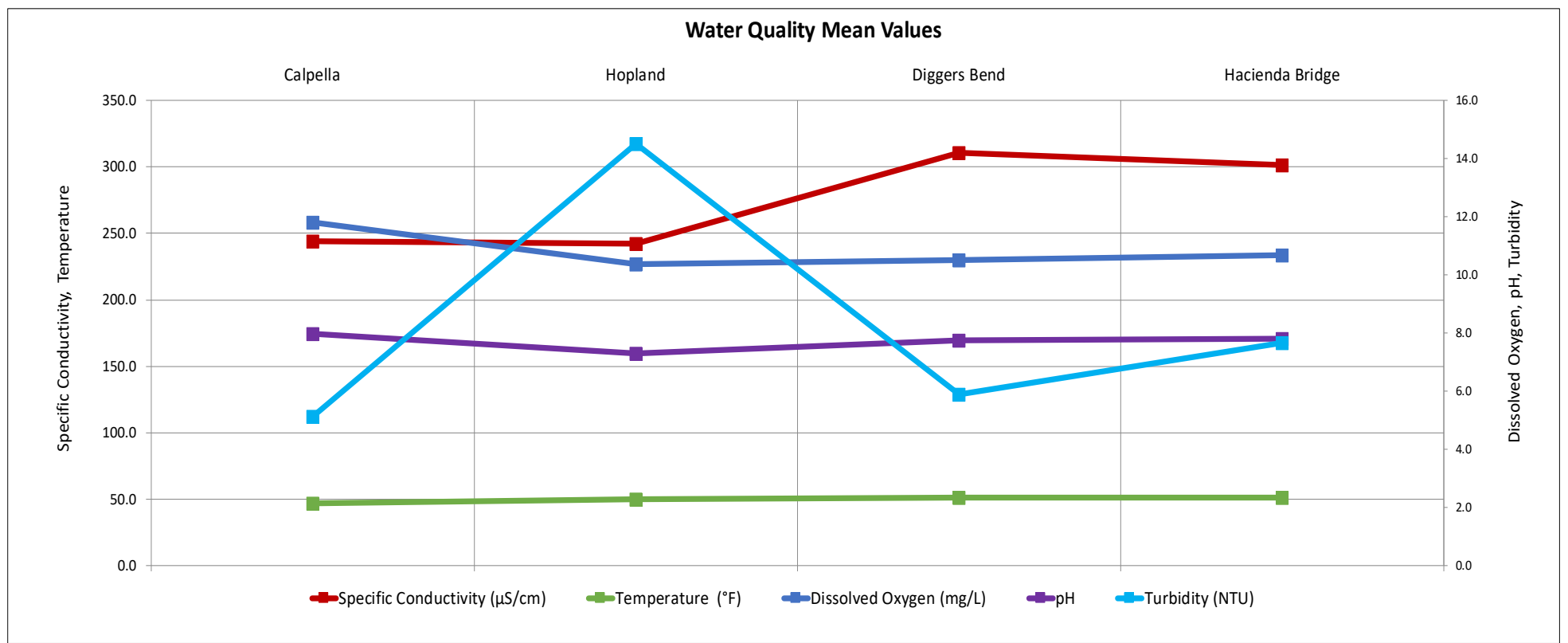
Lake Pillsbury Storage 2016 - 2023 and Target Storage Scenarios



Russian River Flows (February 17, 2023 - February 23, 2023)

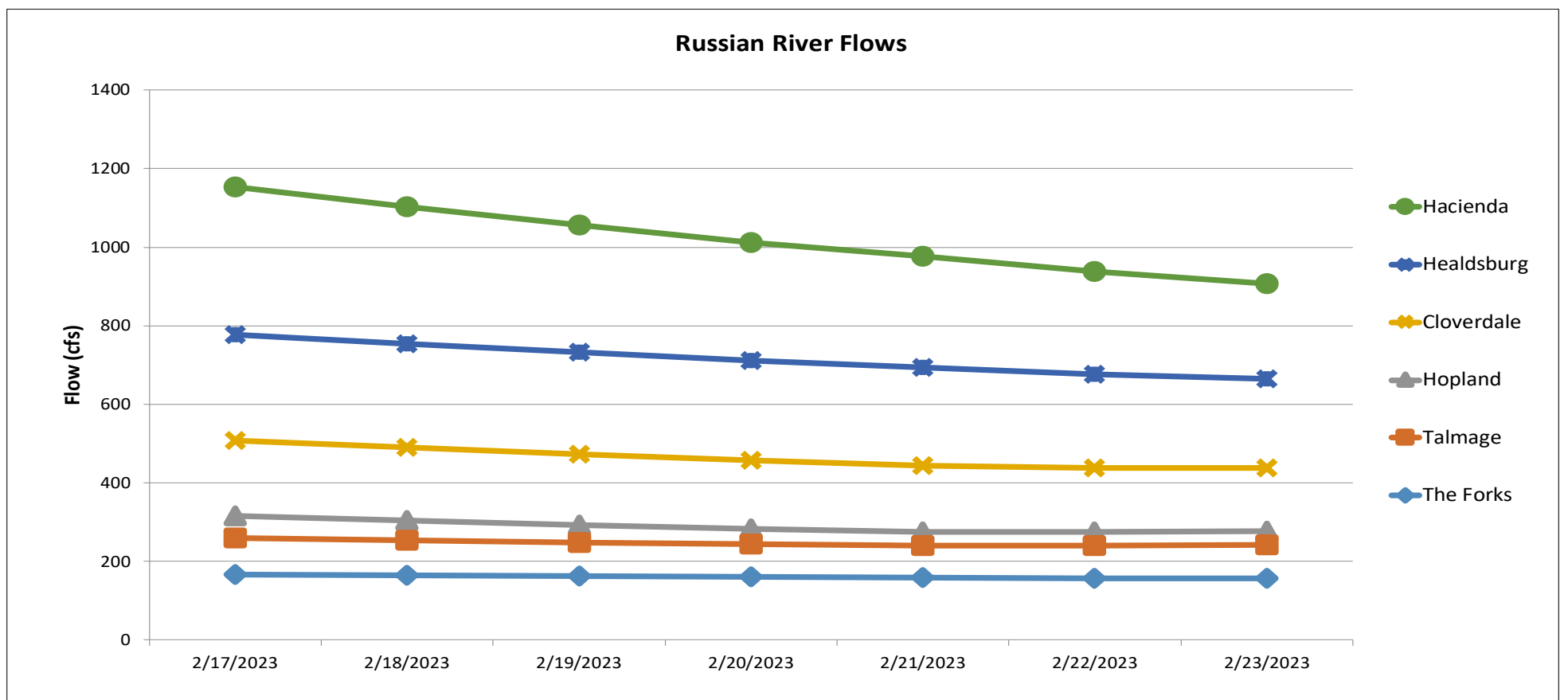
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	44.1	47.3		48.4	48.2		48.4	
	Max	50.2	52.7		54.9	54.7		53.6	
	Mean	46.8	49.9		51.6	51.1		50.8	
Specific Conductivity (µS/cm)	Min	239.0	239.0			304.0		289.0	
	Max	247.0	245.0			317.0		305.0	
	Mean	244.3	242.1			310.6		301.6	
Dissolved Oxygen (mg/L)	Min	11.1	10.0			9.7		10.3	
	Max	12.8	10.7			11.6		11.2	
	Mean	11.8	10.4			10.5		10.7	
Dissolved Oxygen (% Saturation)	Min	95.1	88.9			86.3		92.1	
	Max	108.8	94.8			103.5		99.4	
	Mean	100.2	91.6			94.5		95.7	
pH	Min	7.8	7.3			7.6		7.7	
	Max	8.3	7.3			8.0		7.9	
	Mean	8.0	7.3			7.8		7.8	
Turbidity (NTU)	Min	4.1	12.7			3.5		5.5	
	Max	6.2	17.0			9.6		10.4	
	Mean	5.1	14.5			5.9		7.7	

*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	Feb 17, 2023	Feb 18, 2023	Feb 19, 2023	Feb 20, 2023	Feb 21, 2023	Feb 22, 2023	Feb 23, 2023
The Forks*	166	164	162	161	160	158	158
Talmage USGS 11462080	259	253	249	244	241	240	242
Hopland USGS 11462500	316	305	293	283	276	275	276
Cloverdale USGS 11463000	509	491	472	457	443	438	439
Healdsburg USGS 11464000	778	754	732	711	693	676	665
Hacienda USGS 11467000	1153	1103	1056	1012	976	939	908

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

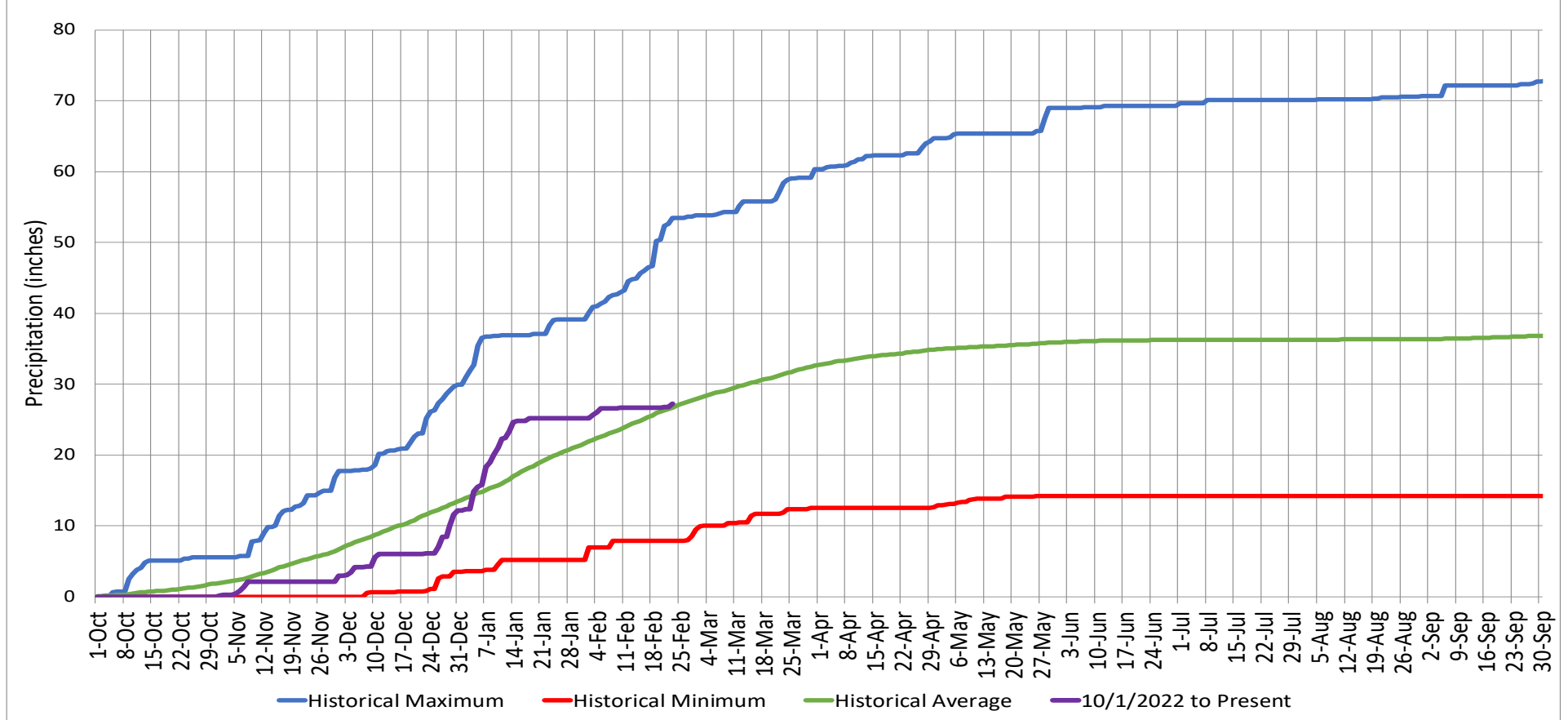


Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

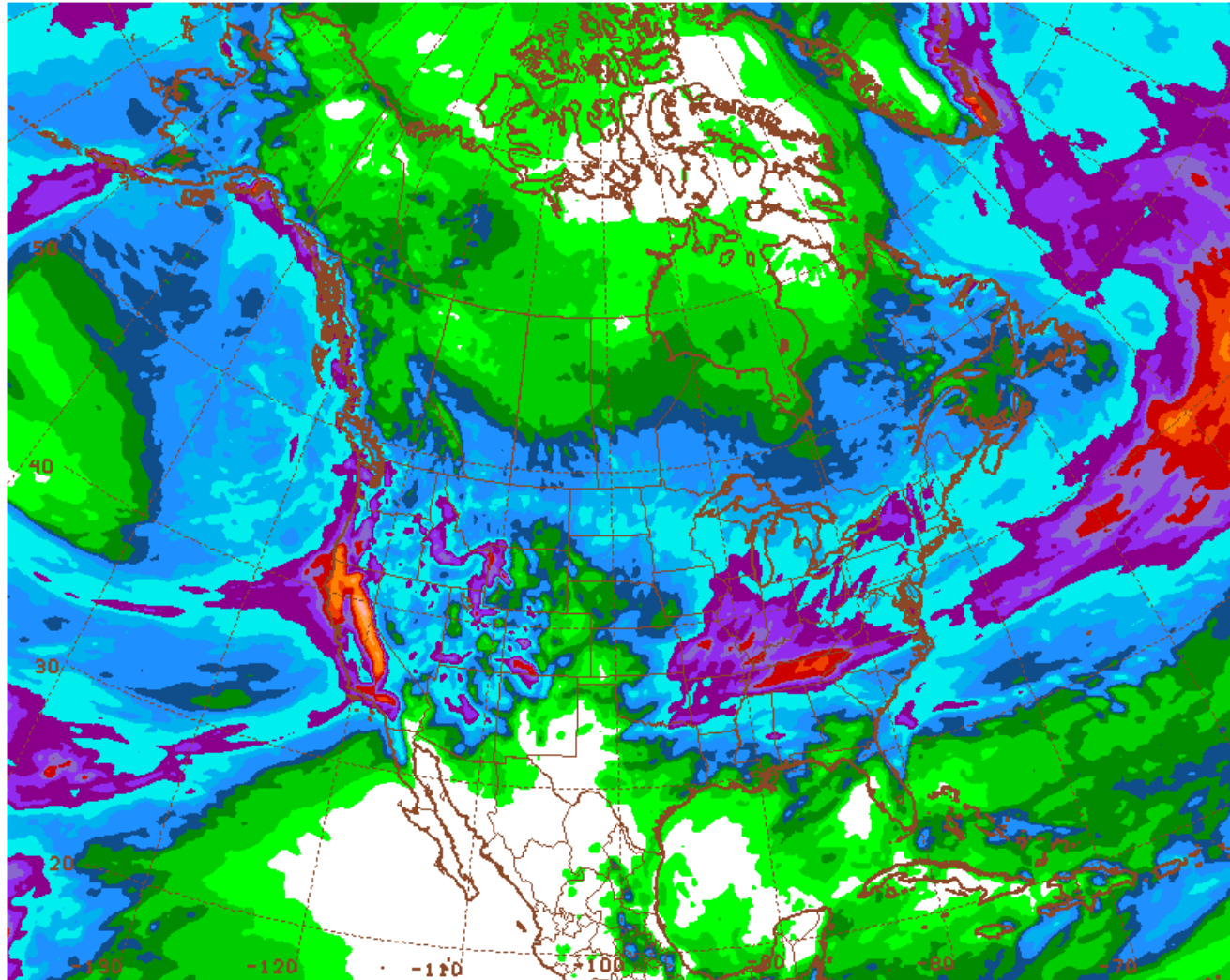
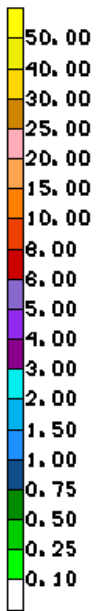
Date Range	Cumulative (inches)
Oct 1, 2022 - Feb 23, 2023	27.21
Last 7 Days*	0.51

Cumulative Precipitation Comparison of Current Year versus Historic Record



Global Forecast System Model 16-day Cumulative Precipitation Forecast

GFS 02/27/23 12UTC 384HR FCST VALID WED 03/15/23 12UTC NOAA/NWS/NCEP



GFS WED 230315/1200Y384 384HR ACCUMULATED PRECIP (IN)

Date Range
Feb 27 - Mar 15, 2023

Forecasted Cumulative (inches)
8.29