



**State Water Resources Control Board
 Temporary Urgency Change Order (12/14/2022)
 Russian River Hydrologic Report
 February 10, 2023 - February 16, 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).

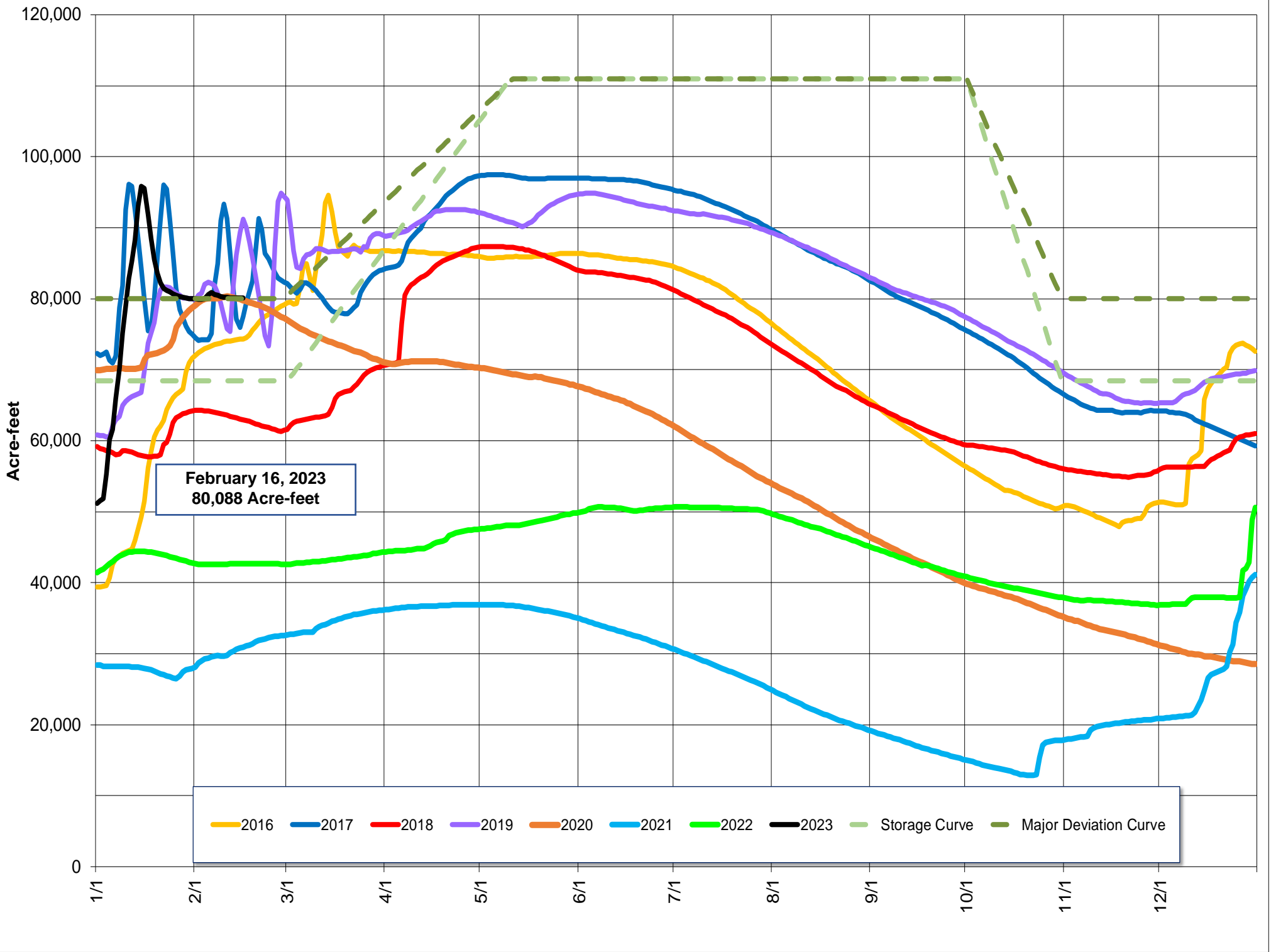
Instream Flow Requirements as of February 16, 2023

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

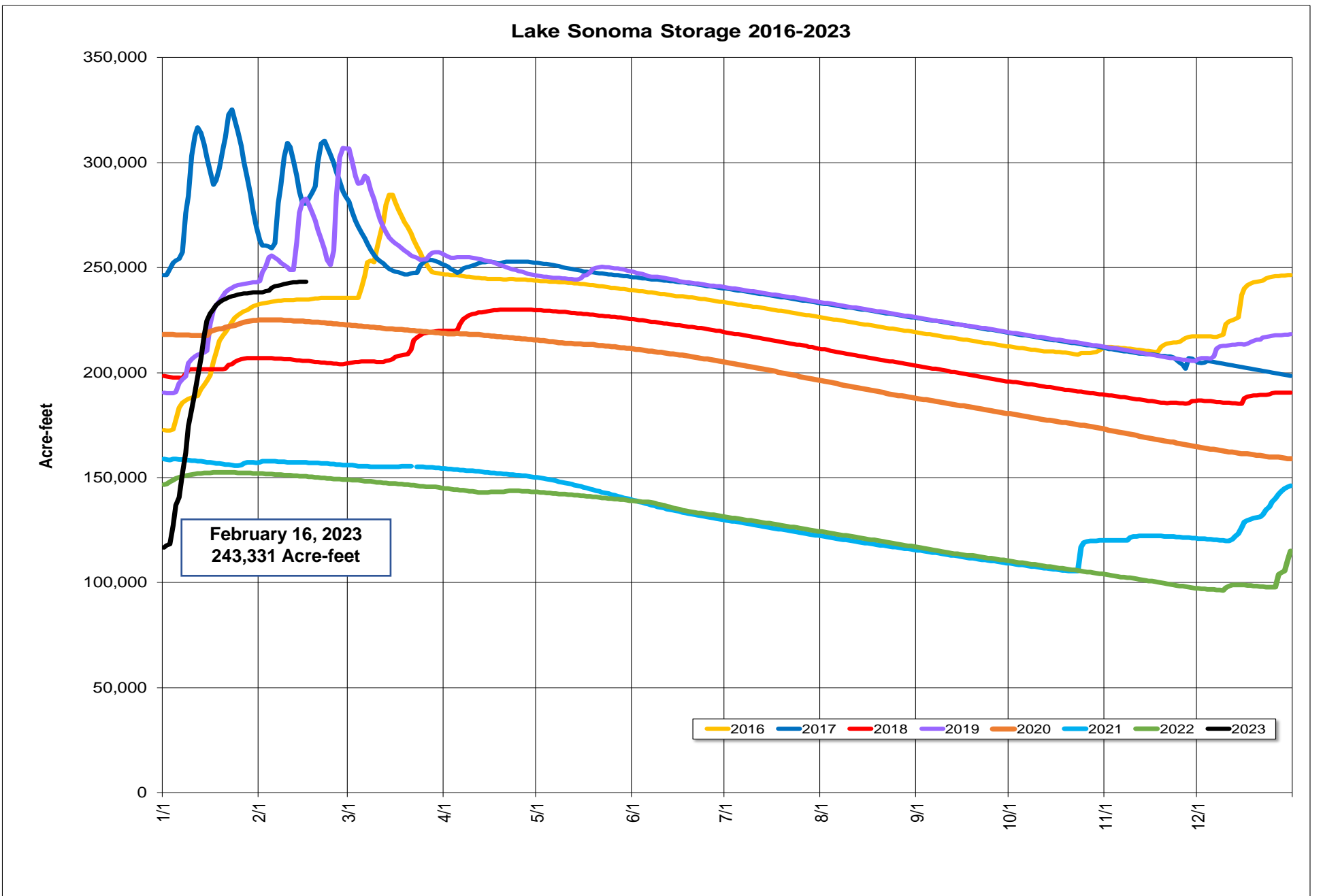


Storage (acre-feet)	February 16, 2023	80,088	
Change in Storage (acre-feet)	Last 30 days	-11,827	-394
	Last 7 days	-137	-20
Daily Inflow (cfs)	Last 7 days	Min	104
		Max	134
		Mean	118
Release (cfs)	Last 7 days	Min	104
		Max	170
		Mean	131

Lake Sonoma



Nathan Baskett, March 3, 2011



Storage (acre-feet)	February 16, 2023	243,331	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
	Last 7 days	12,969	432
Daily Inflow (cfs)	Last 7 days	945	135
		Min	152
		Max	243
Release (cfs)	Last 7 days	Mean	137
		Min	80
		Max	82
		Mean	81

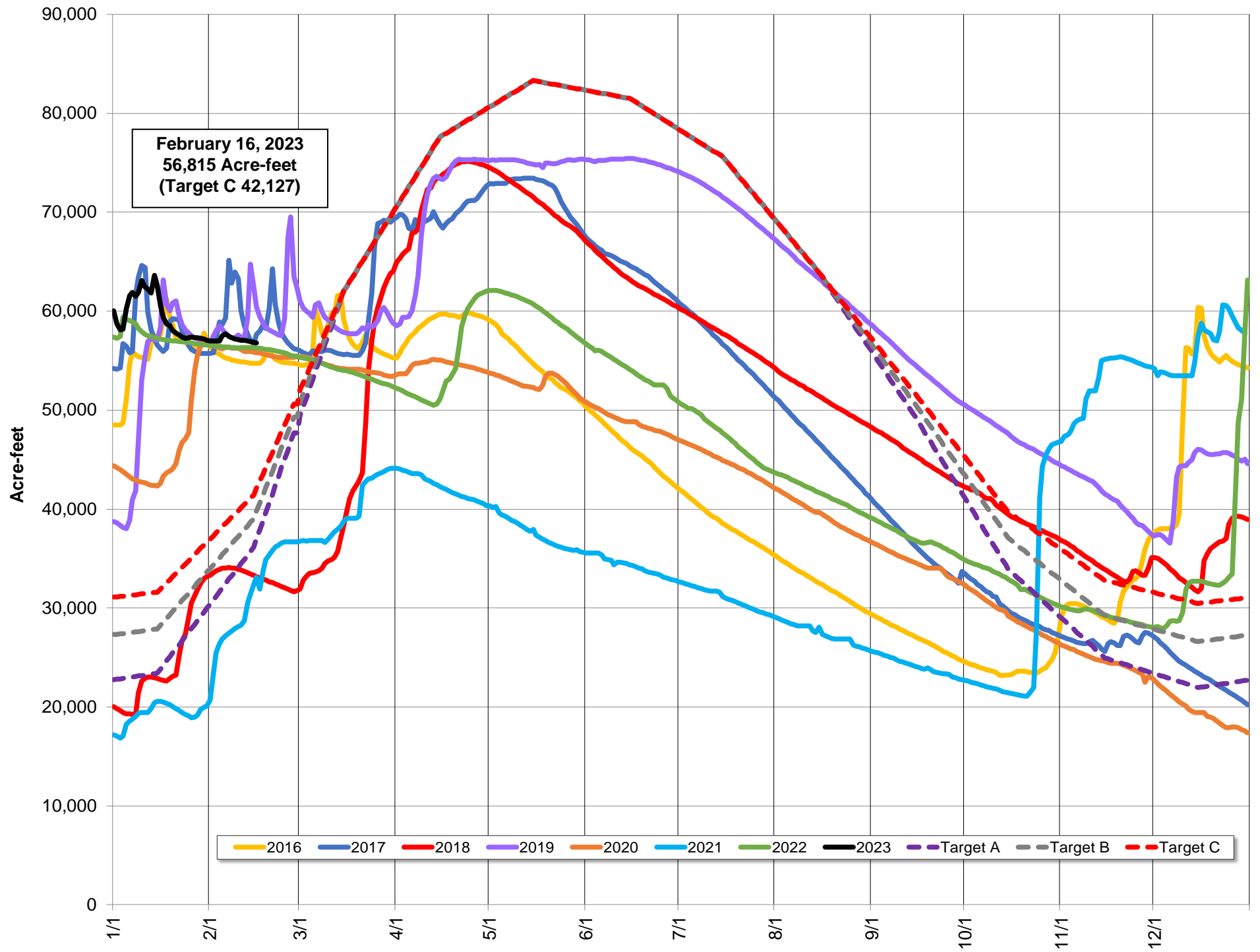
Potter Valley Project

PVP Diversion (cfs)	February 16, 2023	45
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2022 - February 16, 2023	289,202	2,081
	Last 7 days	5,832	833

*Inflow calculation based on criteria established in D1610

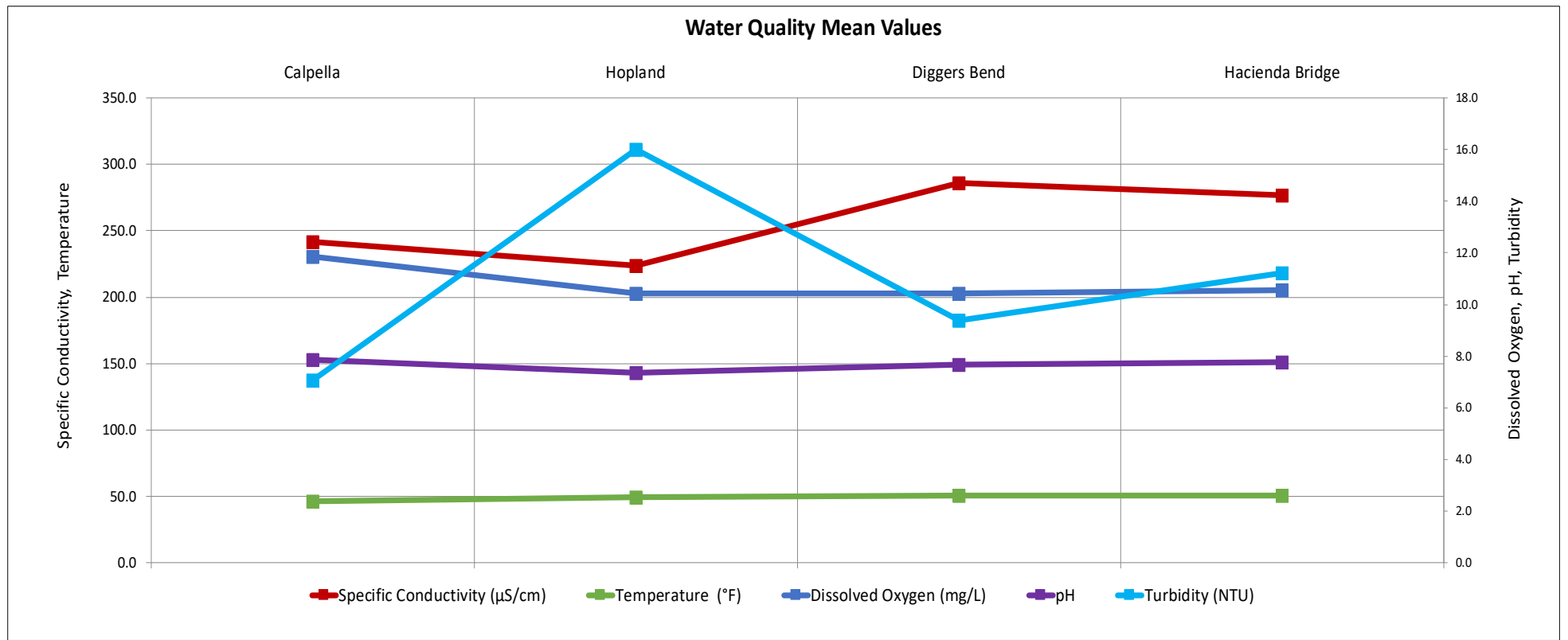
Lake Pillsbury Storage 2016 - 2023 and Target Storage Scenarios



Russian River Flows (February 10, 2023 - February 16, 2023)

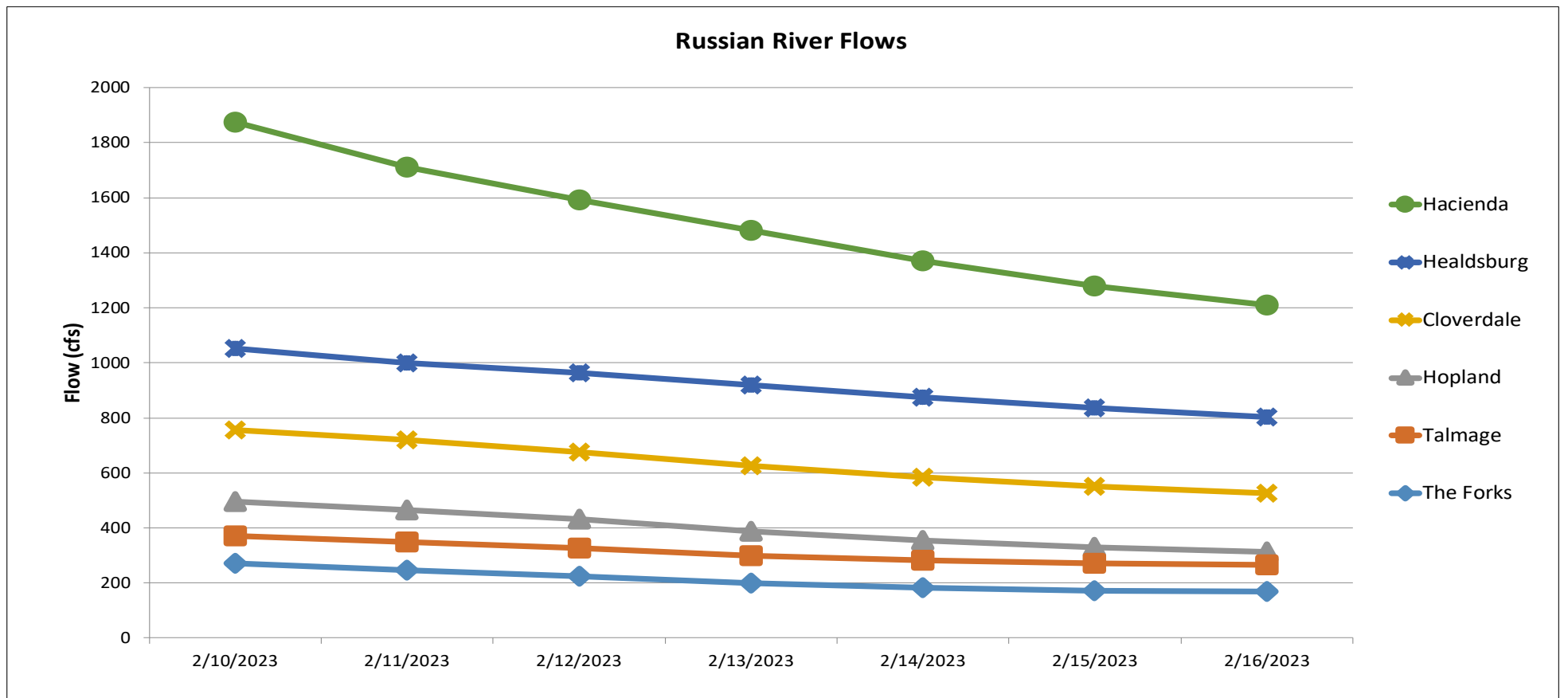
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	43.0	46.9		48.2	48.4		48.4	
	Max	48.9	50.7		53.4	53.1		52.5	
	Mean	46.2	49.1		50.6	50.6		50.6	
Specific Conductivity (µS/cm)	Min	237.0	201.0			263.0		263.0	
	Max	244.0	243.0			304.0		290.0	
	Mean	241.7	223.6			286.0		276.6	
Dissolved Oxygen (mg/L)	Min	11.4	10.0			9.5		10.3	
	Max	12.6	10.8			10.8		10.9	
	Mean	11.9	10.4			10.4		10.5	
Dissolved Oxygen (% Saturation)	Min	97.9	88.8			84.1		92.5	
	Max	103.8	94.3			96.1		96.5	
	Mean	99.8	91.2			93.1		94.1	
pH	Min	7.8	7.2			7.6		7.7	
	Max	8.0	7.5			7.7		7.8	
	Mean	7.8	7.3			7.7		7.8	
Turbidity (NTU)	Min	5.6	12.6			6.6		7.8	
	Max	20.1	20.7			14.8		15.8	
	Mean	7.1	16.0			9.4		11.2	

*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	Feb 10, 2023	Feb 11, 2023	Feb 12, 2023	Feb 13, 2023	Feb 14, 2023	Feb 15, 2023	Feb 16, 2023
The Forks*	272	245	223	198	182	172	169
Talmage USGS 11462080	372	349	327	299	284	271	265
Hopland USGS 11462500	495	465	431	386	355	330	312
Cloverdale USGS 11463000	756	720	676	625	585	550	527
Healdsburg USGS 11464000	1053	1000	962	920	875	837	804
Hacienda USGS 11467000	1875	1711	1592	1482	1371	1280	1210

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

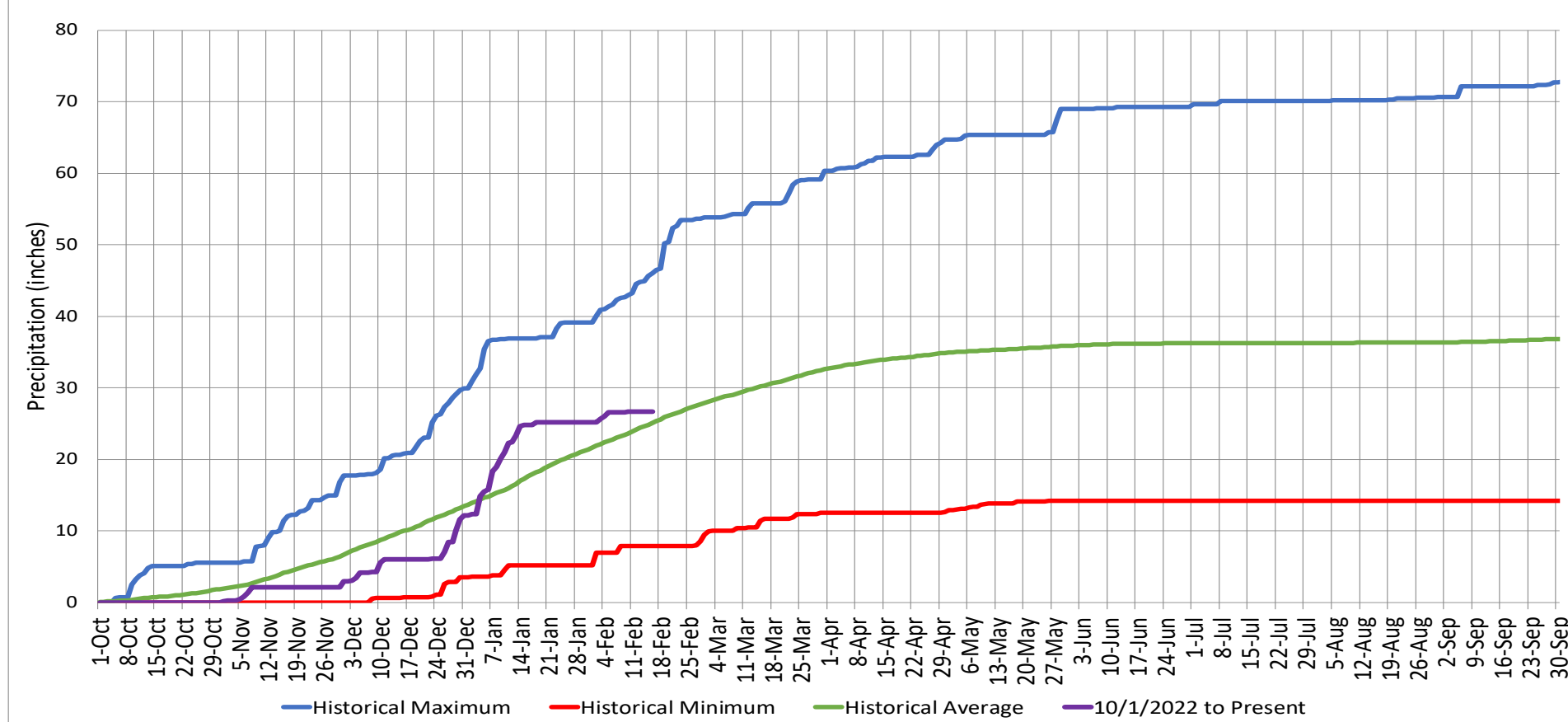


Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

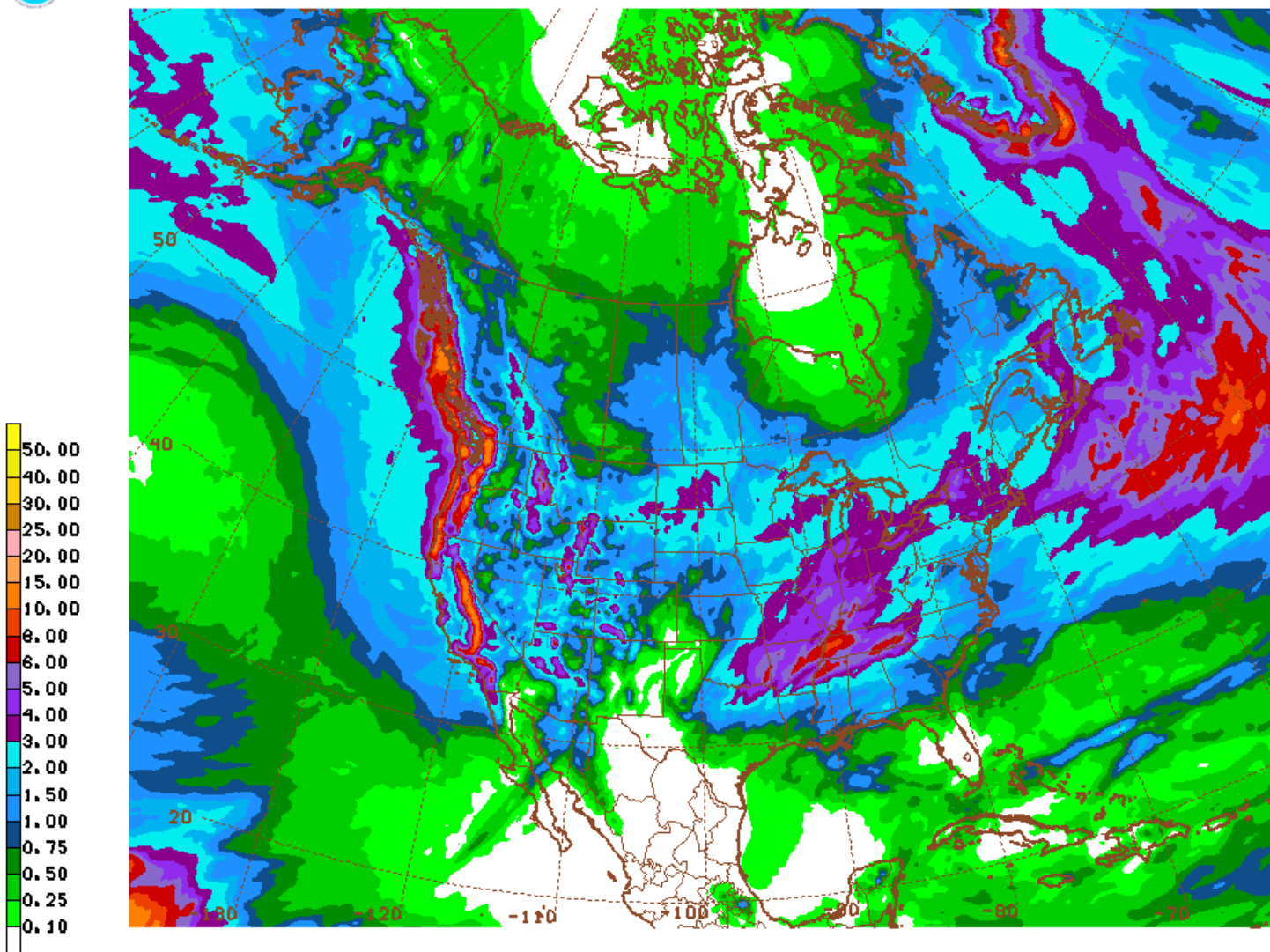
Date Range	Cumulative (inches)
Oct 1, 2022 - Feb 16, 2023	26.7
Last 7 Days*	0.15

Cumulative Precipitation Comparison of Current Year versus Historic Record



Global Forecast System Model 16-day Cumulative Precipitation Forecast

GFS 02/20/23 12UTC 384HR FCST VALID WED 03/08/23 12UTC NOAA/NWS/NCEP



GFS WED 230308/1200Y384 384HR ACCUMULATED PRECIP (IN)

Date Range
Feb 20 - Mar 8, 2023

Forecasted Cumulative (inches)
2.31