



State Water Resources Control Board  
 Temporary Urgency Change Order (12/14/2022)  
 Russian River Hydrologic Report  
 April 14, 2023 - April 20, 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).

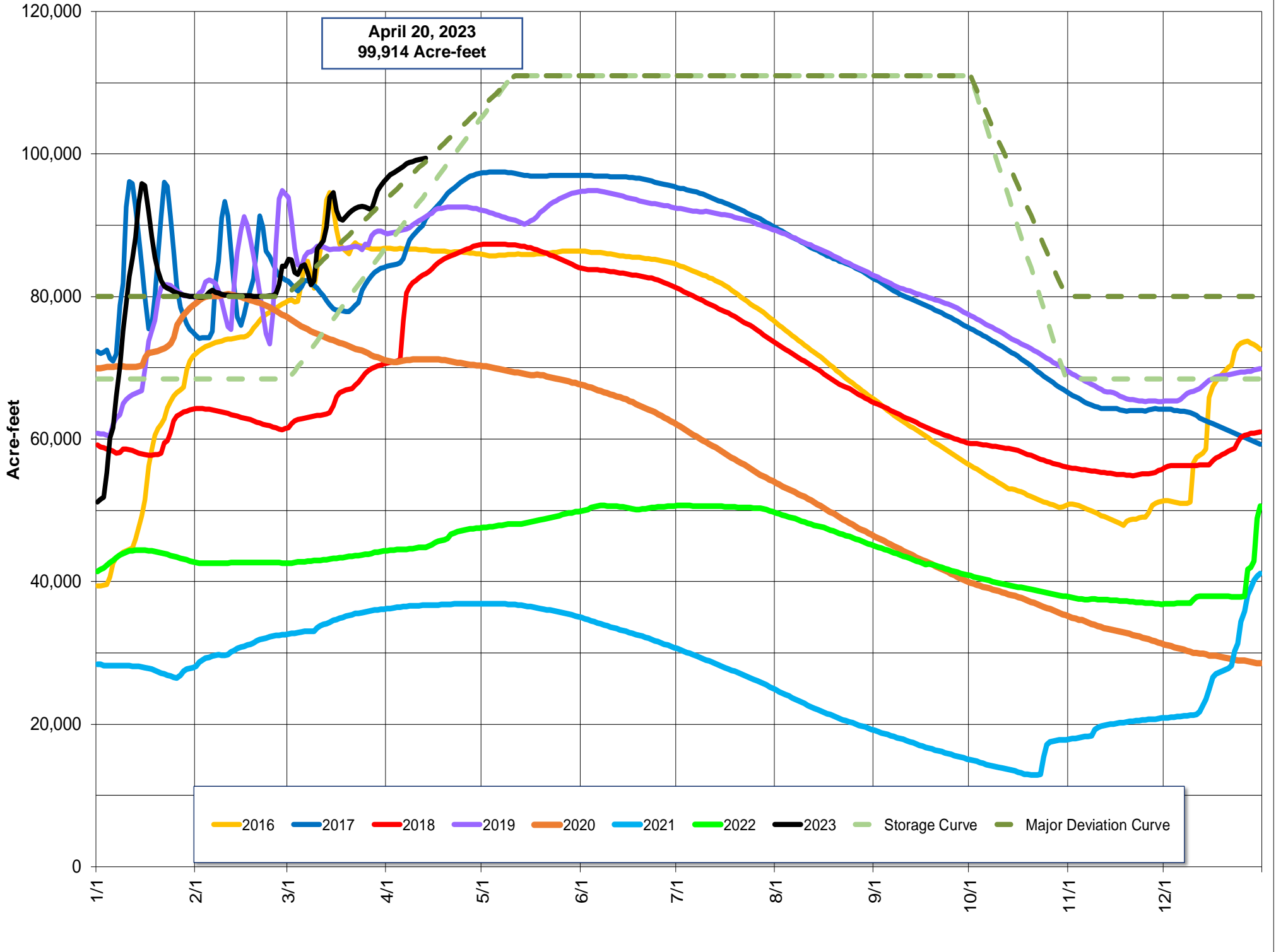
**Instream Flow Requirements as of April 20, 2023**

Basis	Reach	Instantaneous (cfs)	5-day Average (cfs)
Modified Per Order: Normal Condition	Upper Russian River	<b>185</b>	-
D-1610: Normal Condition	Dry Creek	<b>75</b>	-
Modified Per Order: Normal Condition	Lower Russian River	<b>125</b>	-

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**

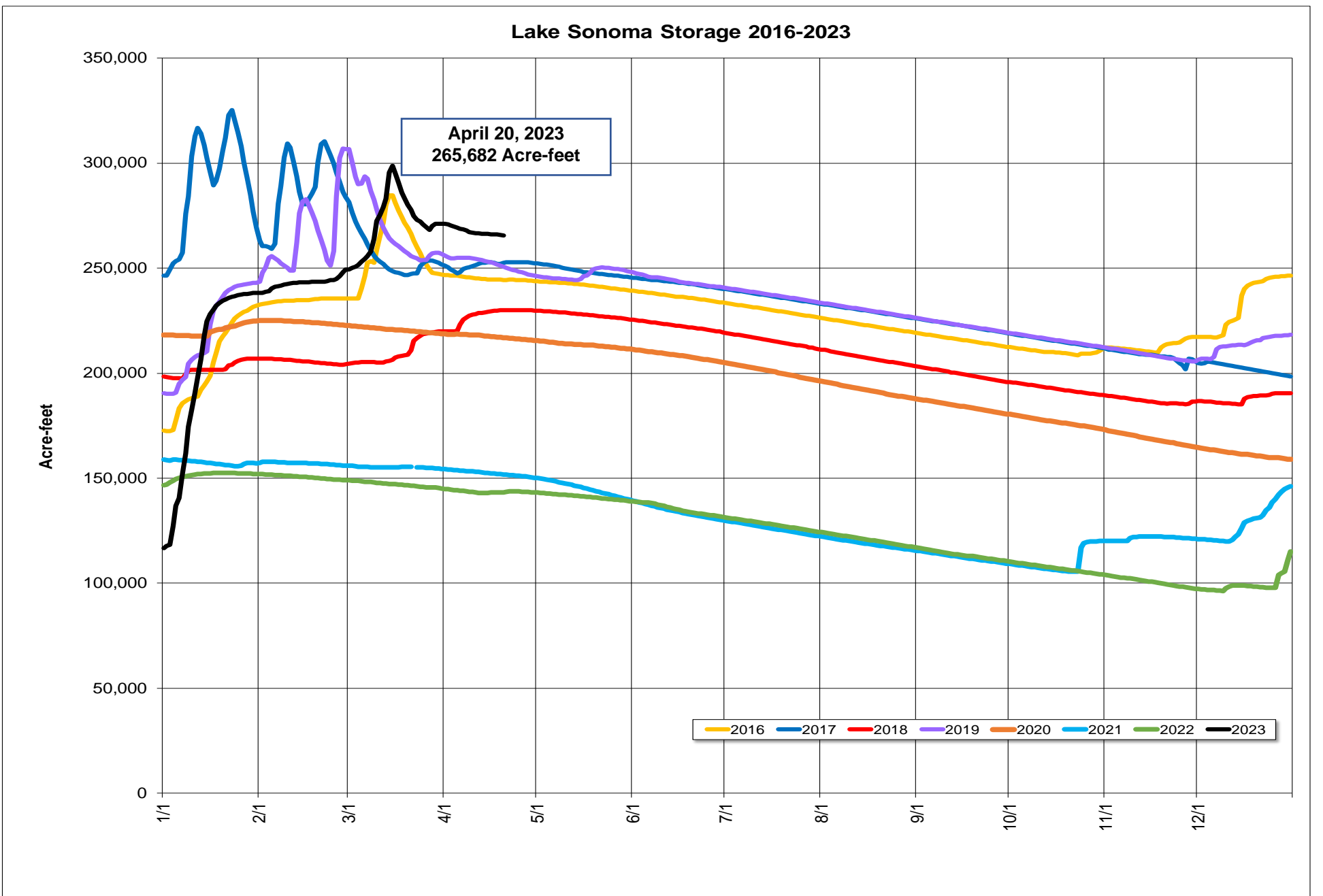


Storage (acre-feet)	April 20, 2023	<b>99,914</b>	
Change in Storage (acre-feet)	Last 30 days	<b>7,841</b>	<b>261</b>
	Last 7 days	<b>464</b>	<b>66</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>142</b>
		Max	<b>214</b>
		Mean	<b>175</b>
Release (cfs)	Last 7 days	Min	<b>105</b>
		Max	<b>146</b>
		Mean	<b>129</b>

# Lake Sonoma



Nathan Baskett, March 3, 2011



Storage (acre-feet)	April 20, 2023	<b>265,682</b>	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	<b>-12,024</b>	<b>-401</b>
	Last 7 days	<b>-670</b>	<b>-96</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>150</b>
		Max	<b>206</b>
		Mean	<b>181</b>
Release (cfs)	Last 7 days	Min	<b>220</b>
		Max	<b>240</b>
		Mean	<b>225</b>

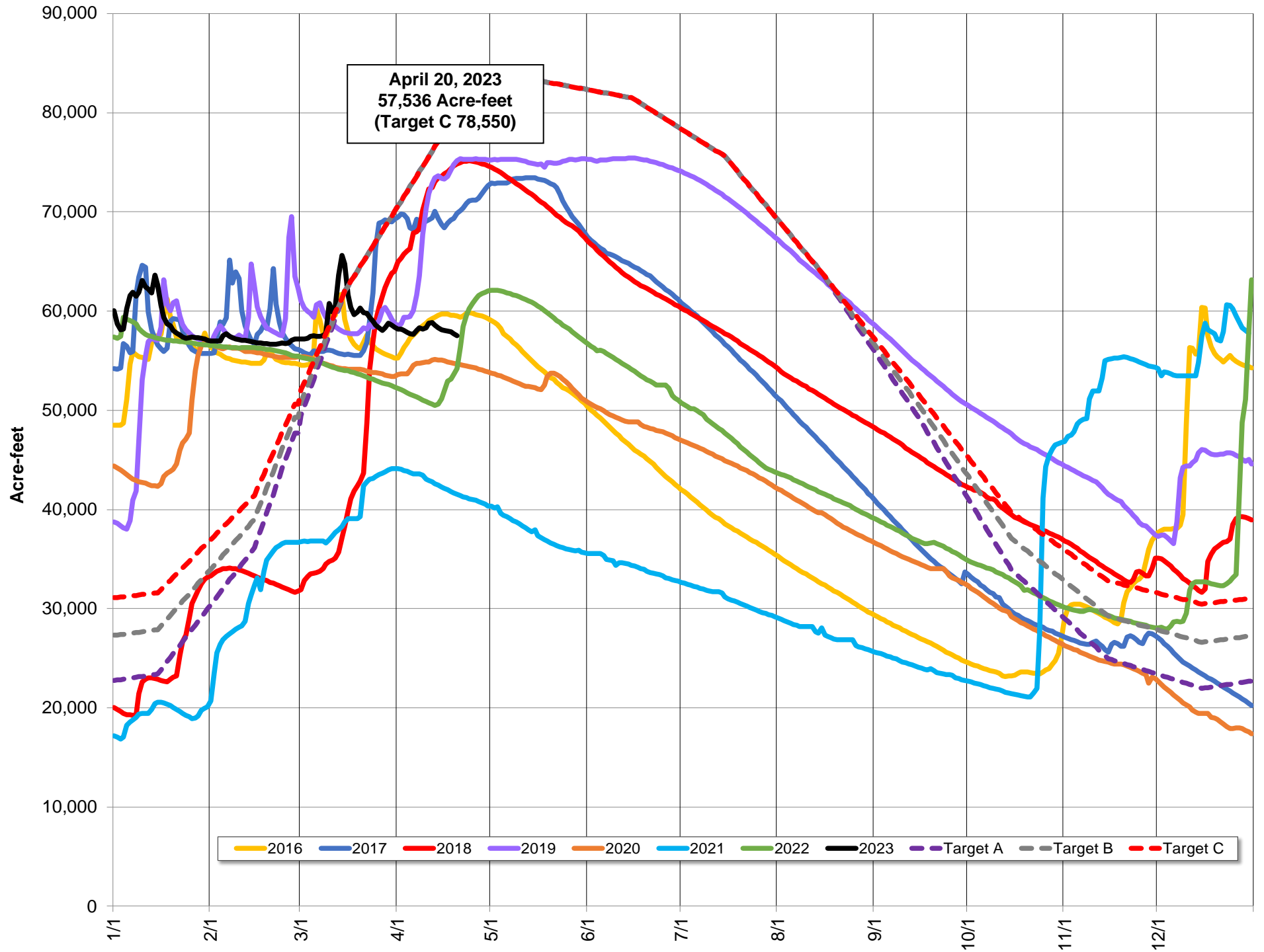
# Potter Valley Project

PVP Diversion (cfs)	April 20, 2023	91
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2022 - April 20, 2023	543,137	2,689
	Last 7 days	14,162	2,023

\*Inflow calculation based on criteria established in D1610

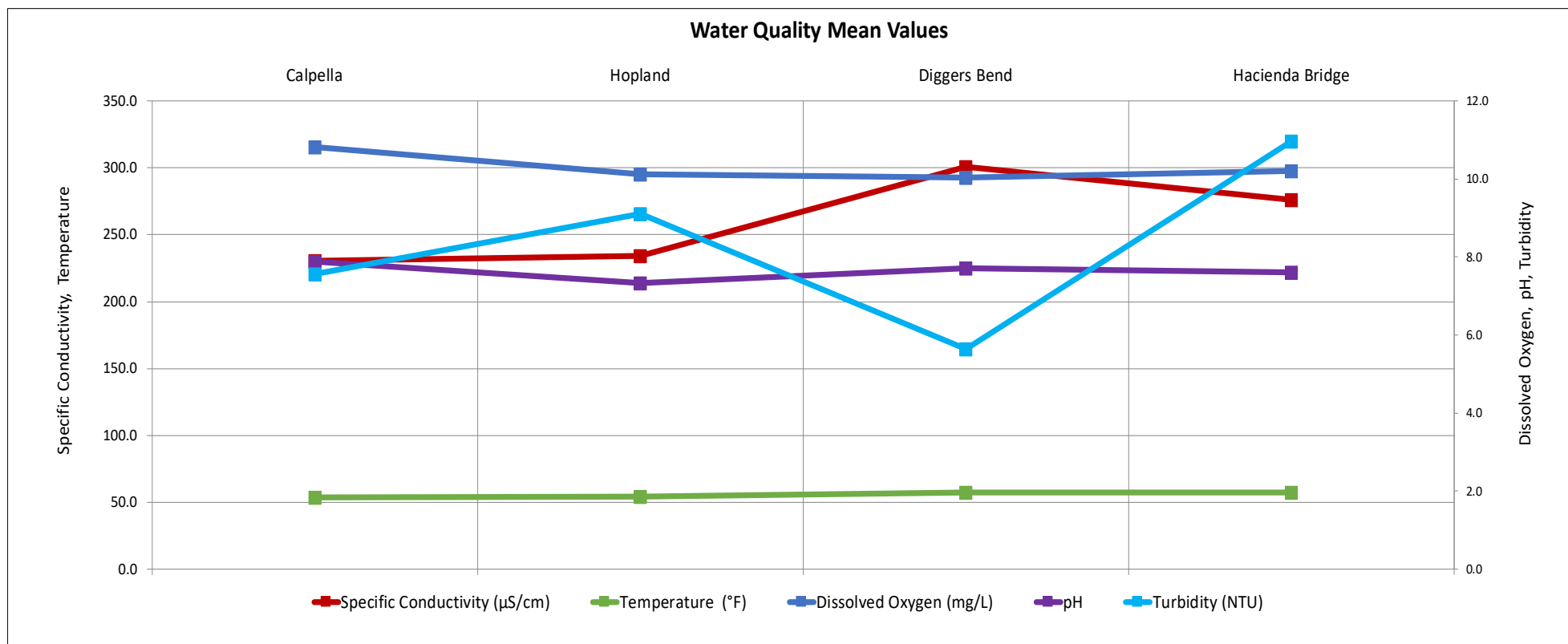
### Lake Pillsbury Storage 2016 - 2023 and Target Storage Scenarios



### Russian River Flows (April 14, 2023 - April 20, 2023)

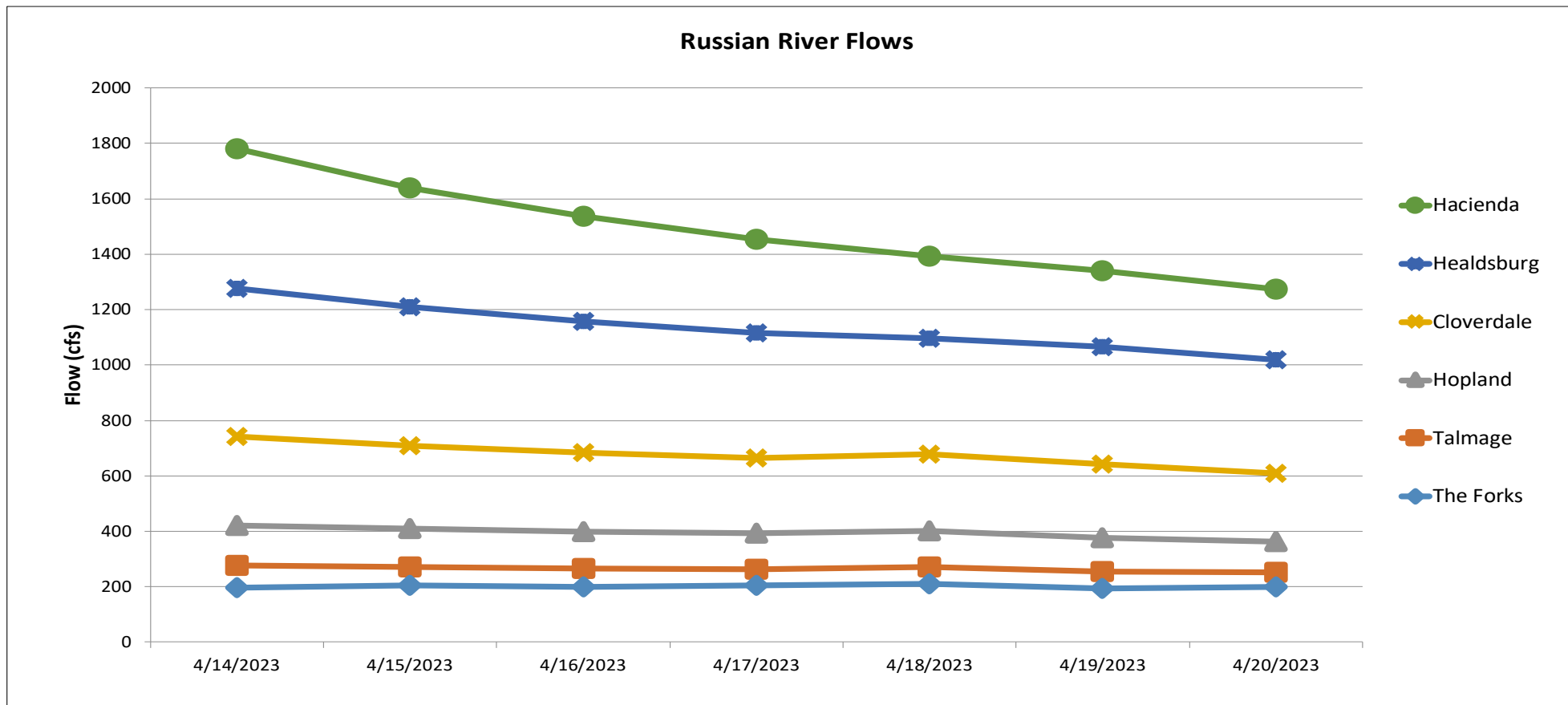
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	50.4	51.8		54.1	54.7		55.4	
	Max	57.2	56.5		60.4	60.3		59.5	
	Mean	53.7	54.4		57.3	57.6		57.6	
Specific Conductivity (µS/cm)	Min	216.0	231.0			291.0		269.0	
	Max	264.0	237.0			309.0		279.0	
	Mean	230.5	234.4			300.6		276.1	
Dissolved Oxygen (mg/L)	Min	10.1	9.6			9.5		9.9	
	Max	12.1	11.0			11.1		10.8	
	Mean	10.8	10.1			10.0		10.2	
Dissolved Oxygen (% Saturation)	Min	94.4	88.4			91.3		94.9	
	Max	114.4	105.1			110.6		106.9	
	Mean	100.5	94.8			97.8		99.5	
pH	Min	7.7	7.3			7.6		7.5	
	Max	8.3	7.4			7.9		7.7	
	Mean	7.9	7.3			7.7		7.6	
Turbidity (NTU)	Min	4.4	7.4			3.3		8.4	
	Max	12.5	11.0			8.3		15.4	
	Mean	7.6	9.1			5.6		11.0	

\*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	Apr 14, 2023	Apr 15, 2023	Apr 16, 2023	Apr 17, 2023	Apr 18, 2023	Apr 19, 2023	Apr 20, 2023
The Forks*	196	204	201	205	209	194	200
Talmage USGS 11462080	276	272	267	264	270	256	251
Hopland USGS 11462500	421	409	399	392	403	377	362
Cloverdale USGS 11463000	743	709	685	666	677	641	610
Healdsburg USGS 11464000	1277	1209	1158	1116	1096	1067	1018
Hacienda USGS 11467000	1780	1639	1536	1454	1393	1341	1274

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

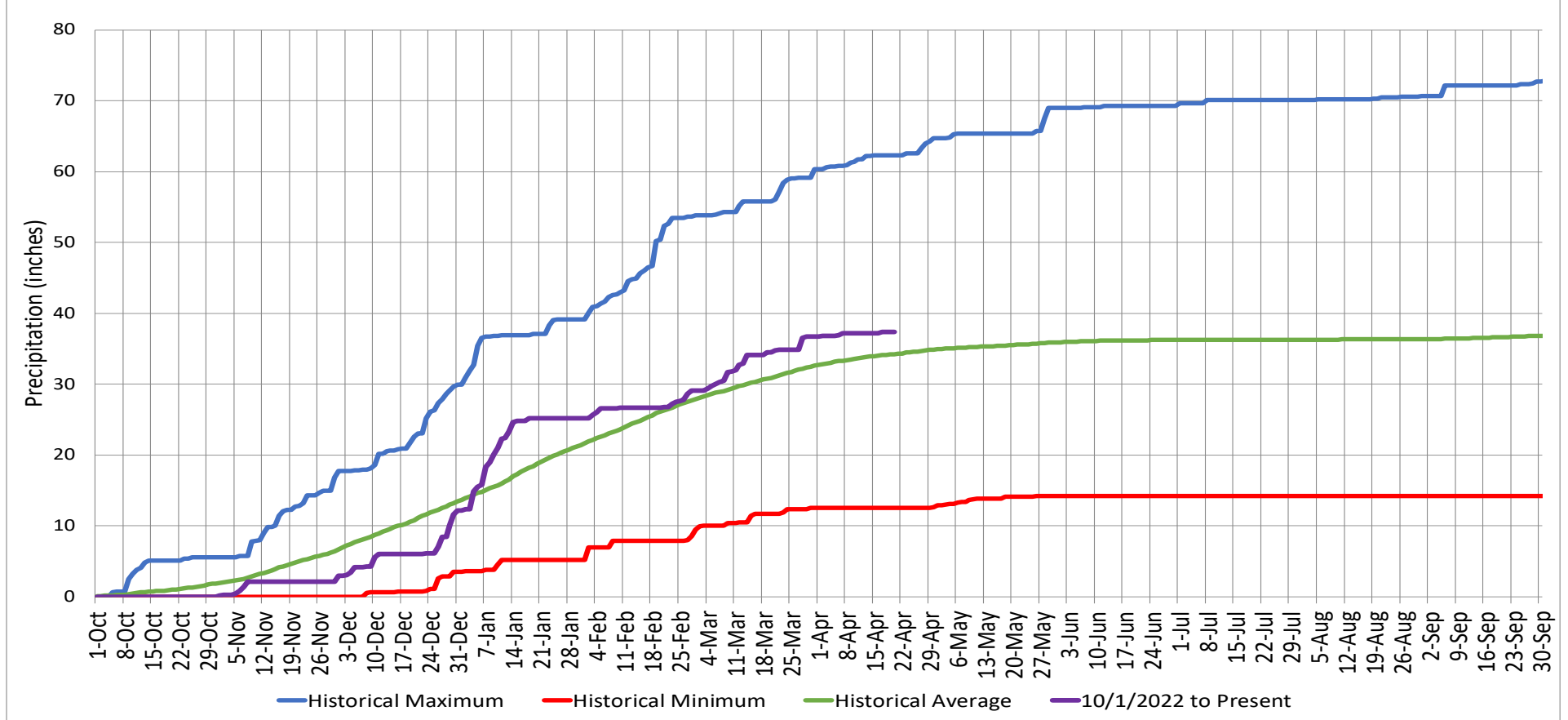


# Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

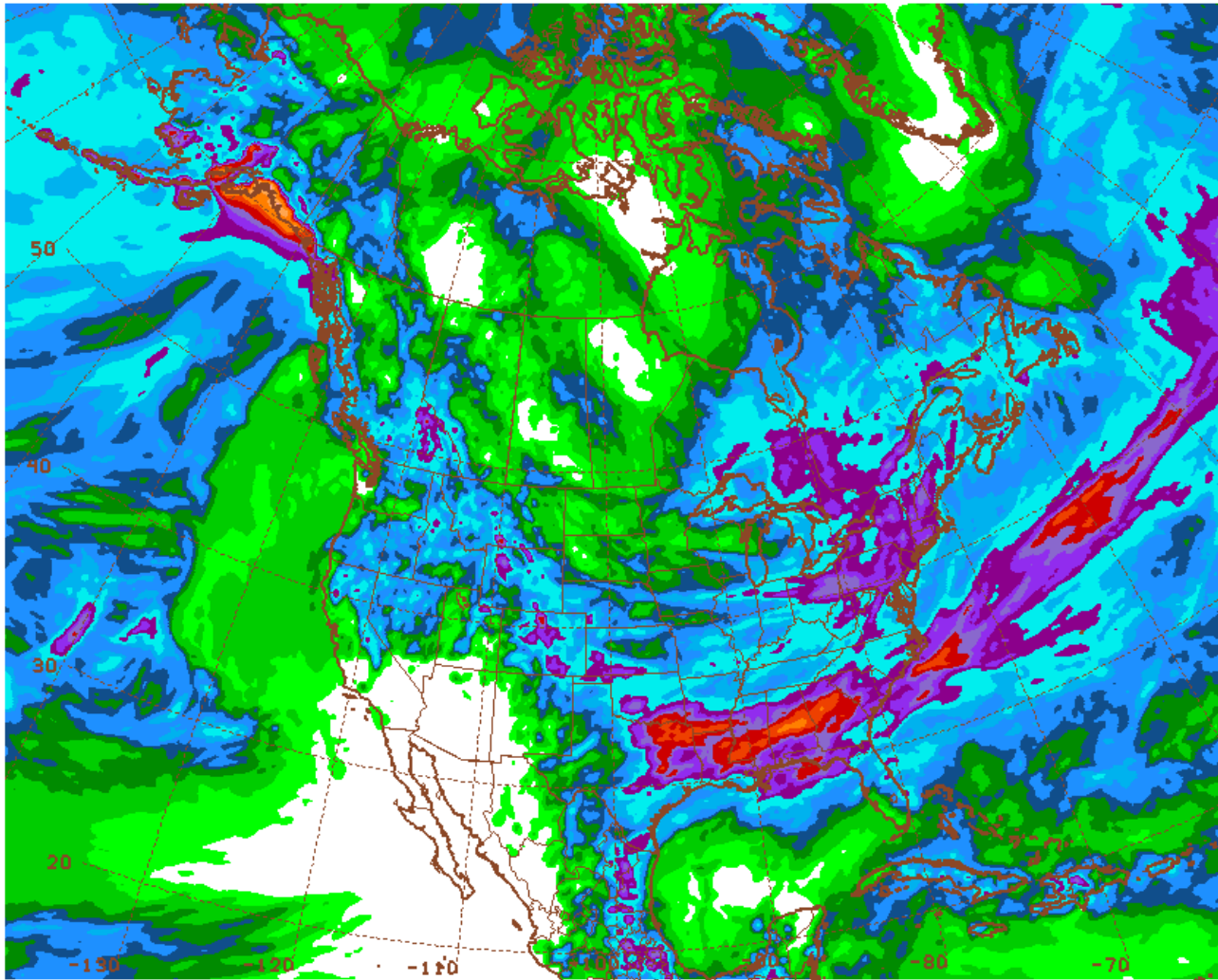
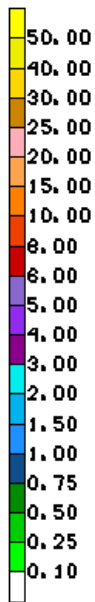
Date Range	Cumulative (inches)
Oct 1, 2022 - Apr 20, 2023	<b>37.39</b>
Last 7 Days*	<b>0.22</b>

Cumulative Precipitation Comparison of Current Year versus Historic Record



## Global Forecast System Model 16-day Cumulative Precipitation Forecast

6FS 04/26/23 06UTC 384HR FCST VALID FRI 05/12/23 06UTC NOAA/NWS/NCEP



6FS FRI 230512/0600Y384 384HR ACCUMULATED PRECIP (IN)

Date Range  
Apr 26 - May 12, 2023

Forecasted Cumulative (inches)  
**0.21**