



State Water Resources Control Board  
 Temporary Urgency Change Order (12/14/2022)  
 Russian River Hydrologic Report  
 April 21, 2023 - April 27, 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).

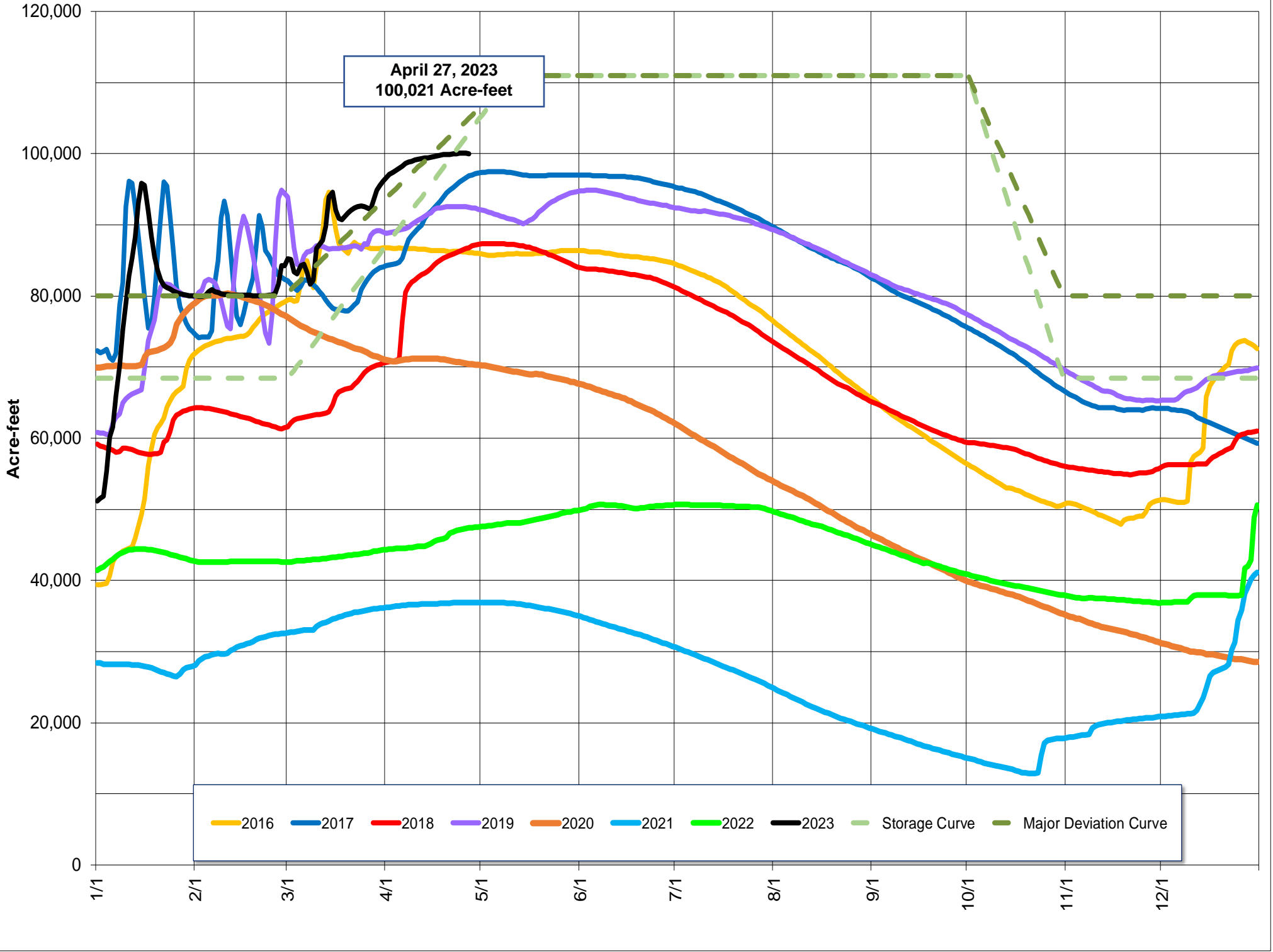
**Instream Flow Requirements as of April 27, 2023**

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**

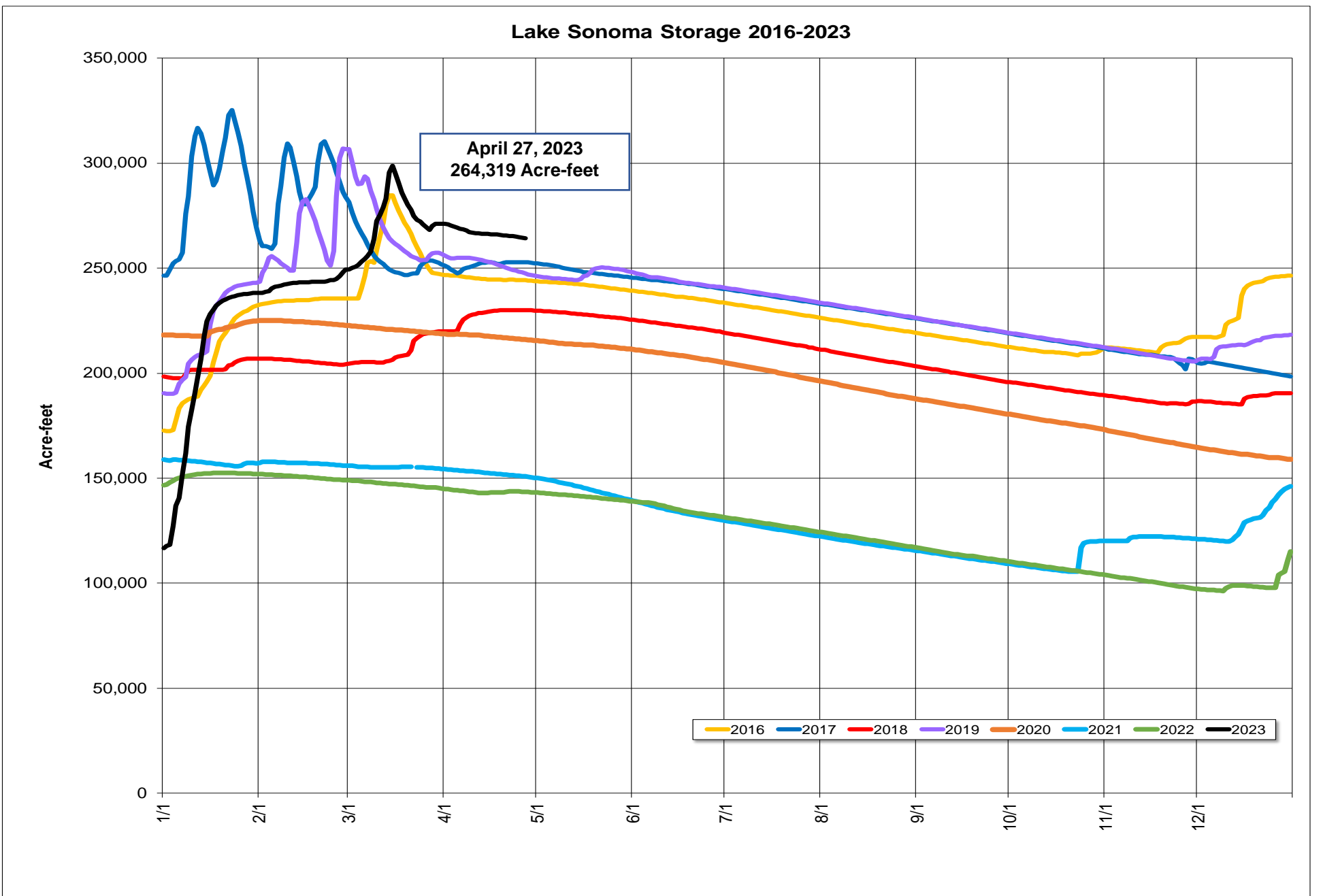


Storage (acre-feet)	April 27, 2023	<b>100,021</b>	
Change in Storage (acre-feet)	Last 30 days	<b>6,518</b>	<b>217</b>
	Last 7 days	<b>90</b>	<b>13</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>148</b>
		Max	<b>189</b>
		Mean	<b>168</b>
Release (cfs)	Last 7 days	Min	<b>144</b>
		Max	<b>152</b>
		Mean	<b>149</b>

# Lake Sonoma



Nathan Baskett, March 3, 2011



Storage (acre-feet)	April 27, 2023	<b>264,319</b>	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	<b>-5,820</b>	<b>-194</b>
	Last 7 days	<b>-1,196</b>	<b>-171</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>111</b>
		Max	<b>184</b>
		Mean	<b>137</b>
Release (cfs)	Last 7 days	Min	<b>191</b>
		Max	<b>222</b>
		Mean	<b>217</b>

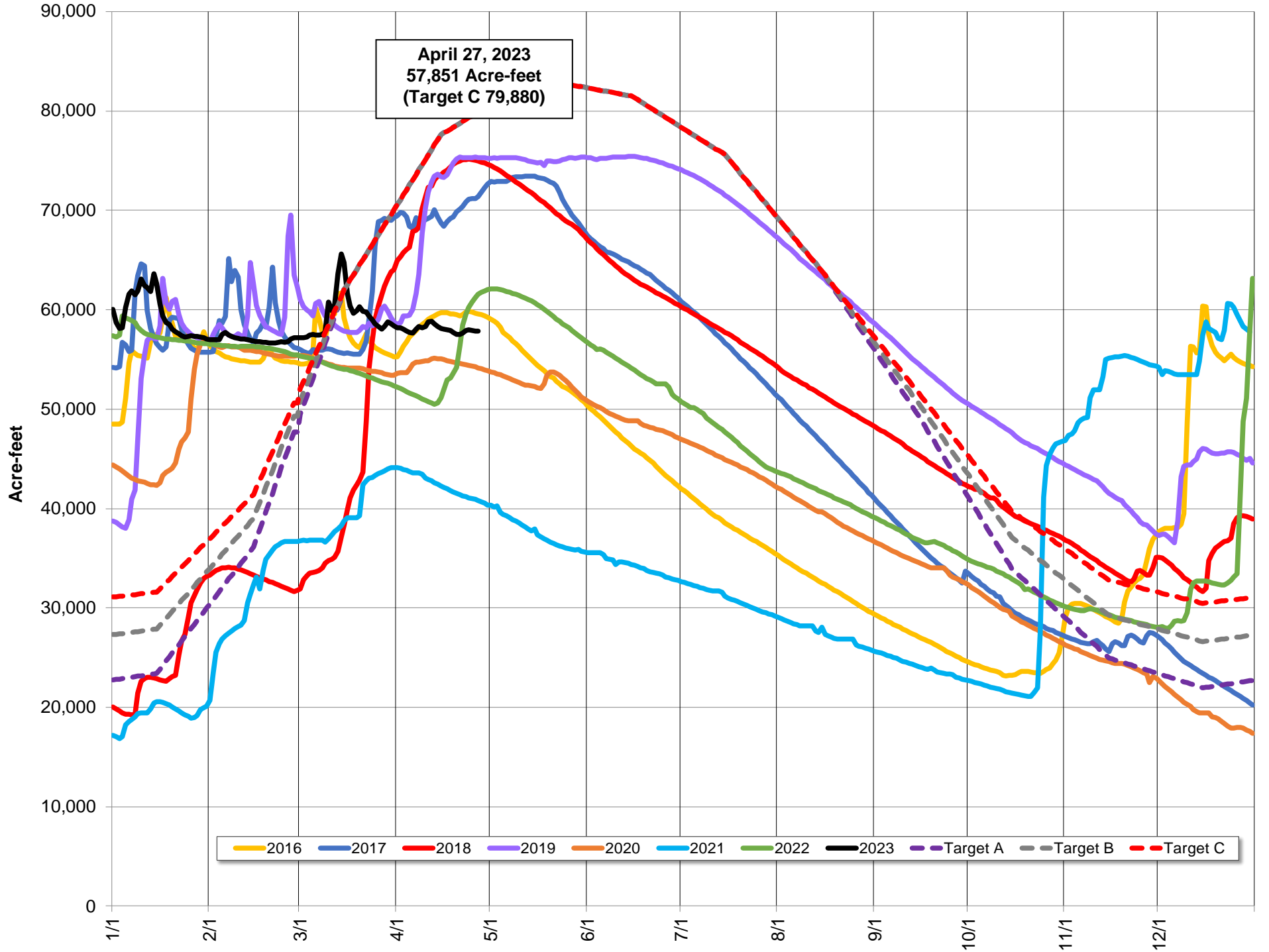
# Potter Valley Project

PVP Diversion (cfs)	April 27, 2023	90
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2022 - April 27, 2023	559,856	2,679
	Last 7 days	14,929	2,133

\*Inflow calculation based on criteria established in D1610

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

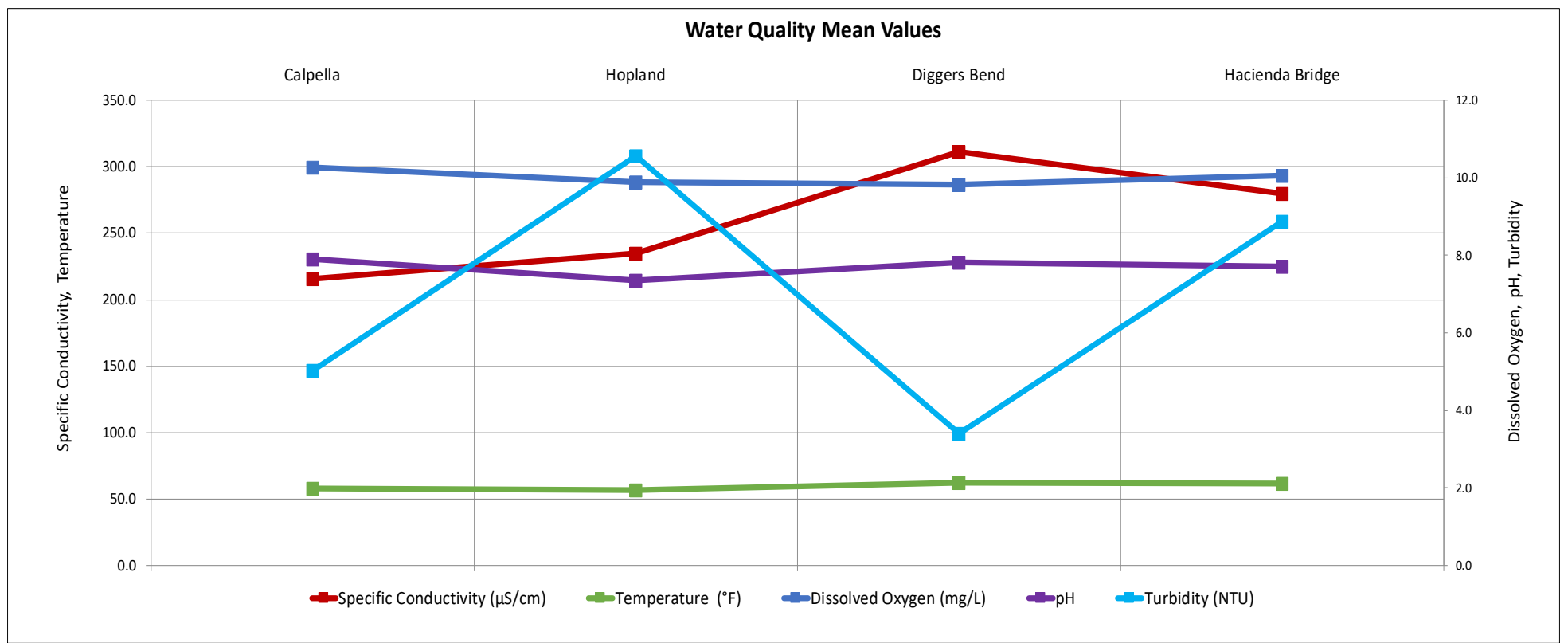




### Russian River Flows (April 21, 2023 - April 27, 2023)

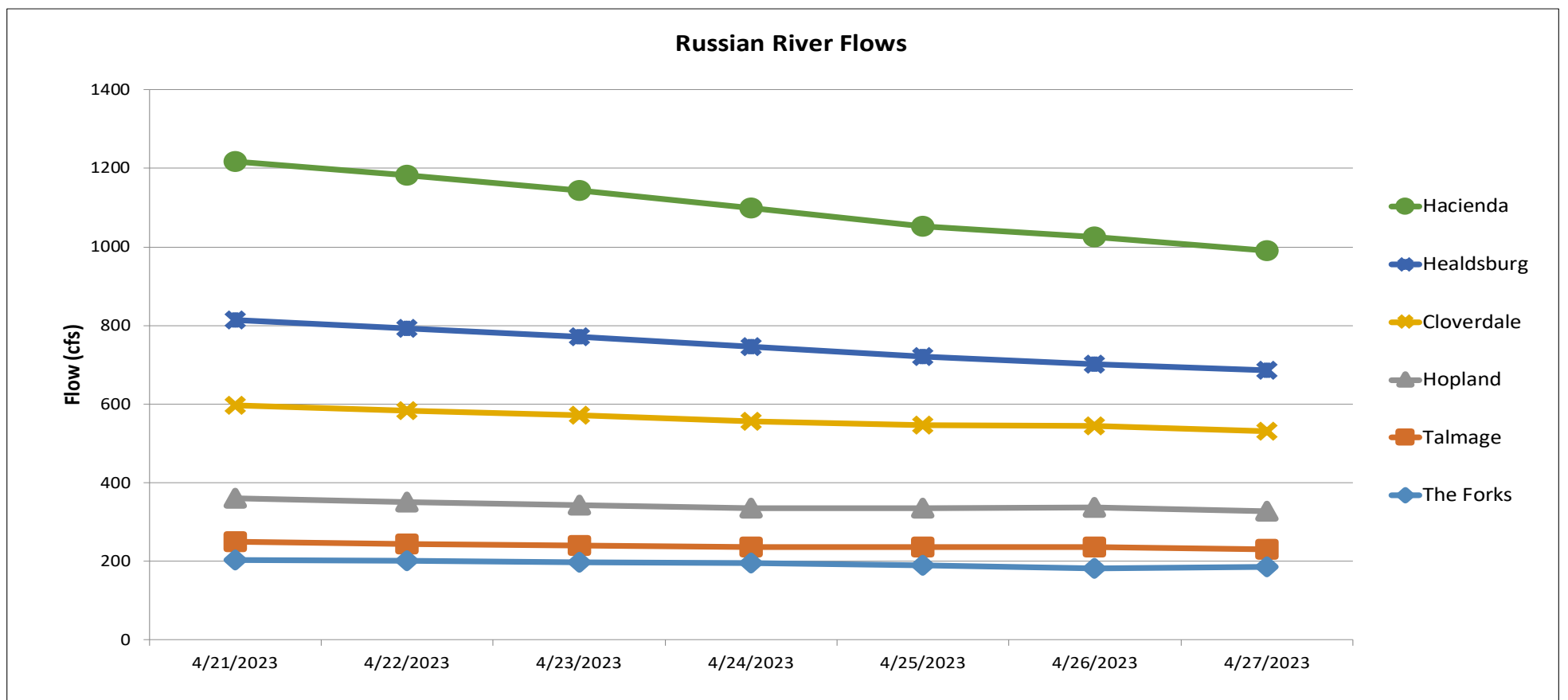
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	52.5	53.2		56.1	56.8		57.2	
	Max	63.0	59.7		65.8	66.6		64.9	
	Mean	58.0	57.0		61.5	62.1		61.7	
Specific Conductivity (µS/cm)	Min	212.0	230.0			304.0		277.0	
	Max	221.0	238.0			318.0		282.0	
	Mean	215.8	234.8			311.3		279.9	
Dissolved Oxygen (mg/L)	Min	9.2	9.0			8.5		9.2	
	Max	12.0	11.0			11.2		11.0	
	Mean	10.3	9.9			9.8		10.1	
Dissolved Oxygen (% Saturation)	Min	92.8	87.1			86.9		92.8	
	Max	116.3	106.9			120.7		116.6	
	Mean	100.6	95.7			101.2		103.0	
pH	Min	7.6	7.3			7.6		7.6	
	Max	8.4	7.4			8.1		7.9	
	Mean	7.9	7.4			7.8		7.7	
Turbidity (NTU)	Min	3.2	9.1			2.4		7.4	
	Max	10.3	12.5			5.4		11.8	
	Mean	5.0	10.6			3.4		8.9	

\*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	Apr 21, 2023	Apr 22, 2023	Apr 23, 2023	Apr 24, 2023	Apr 25, 2023	Apr 26, 2023	Apr 27, 2023
The Forks*	204	201	198	197	189	183	186
Talmage USGS 11462080	250	244	239	236	237	236	232
Hopland USGS 11462500	360	351	343	335	335	337	327
Cloverdale USGS 11463000	596	584	571	556	547	545	532
Healdsburg USGS 11464000	814	792	772	746	720	702	686
Hacienda USGS 11467000	1218	1182	1143	1098	1053	1025	991

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

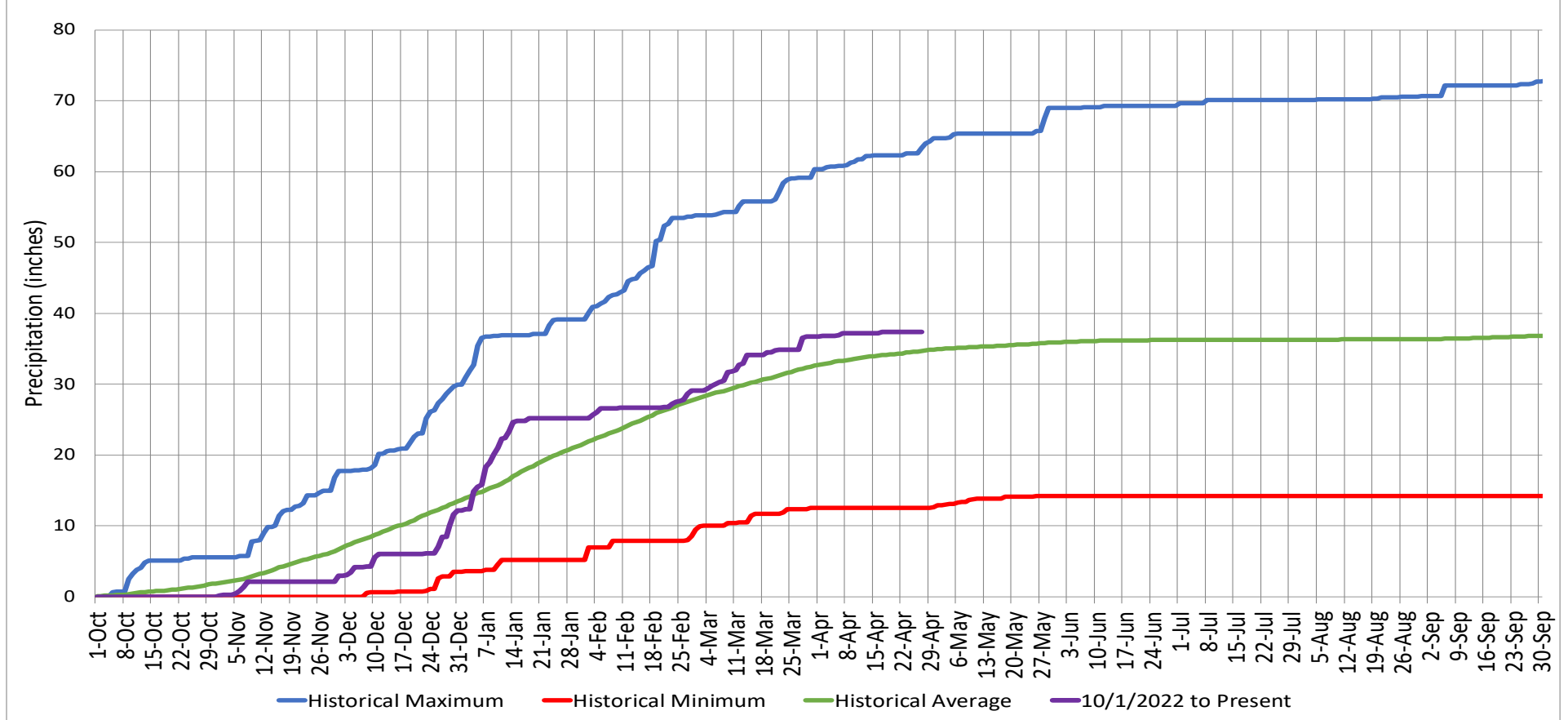


# Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

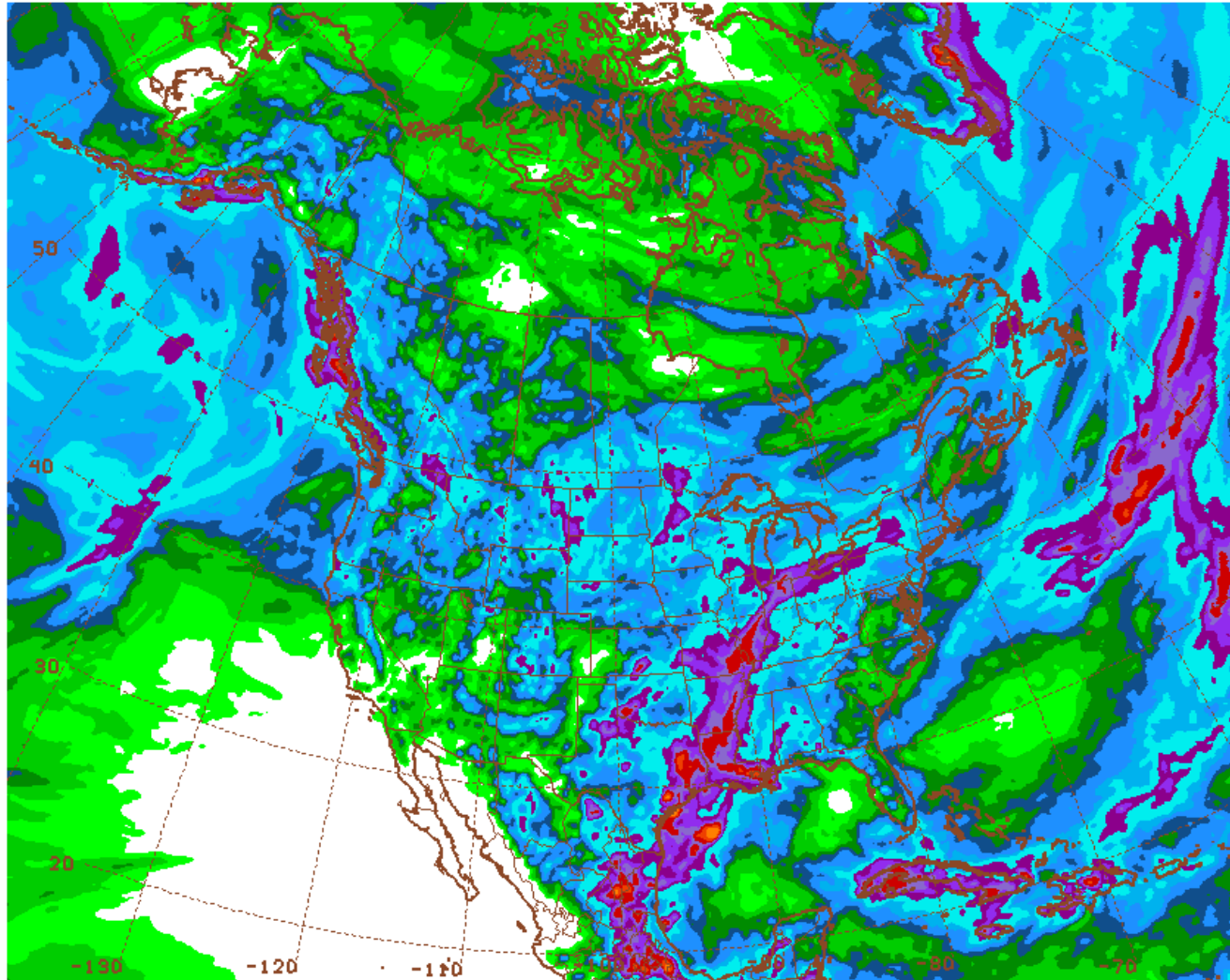
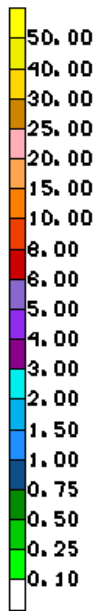
Date Range	Cumulative (inches)
Oct 1, 2022 - Apr 27, 2023	<b>37.39</b>
Last 7 Days*	<b>0.00</b>

Cumulative Precipitation Comparison of Current Year versus Historic Record



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

GFS 05/05/23 12UTC 384HR FCST VALID SUN 05/21/23 12UTC NOAA/NWS/NCEP



GFS SUN 230521/1200Y384 384HR ACCUMULATED PRECIP (IN)

Date Range  
 May 5 - May 21, 2023

Forecasted Cumulative (inches)  
**0.41**