



**State Water Resources Control Board  
 Temporary Urgency Change Order (12/14/2022)  
 Russian River Hydrologic Report  
 April 7, 2023 - April 13, 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).

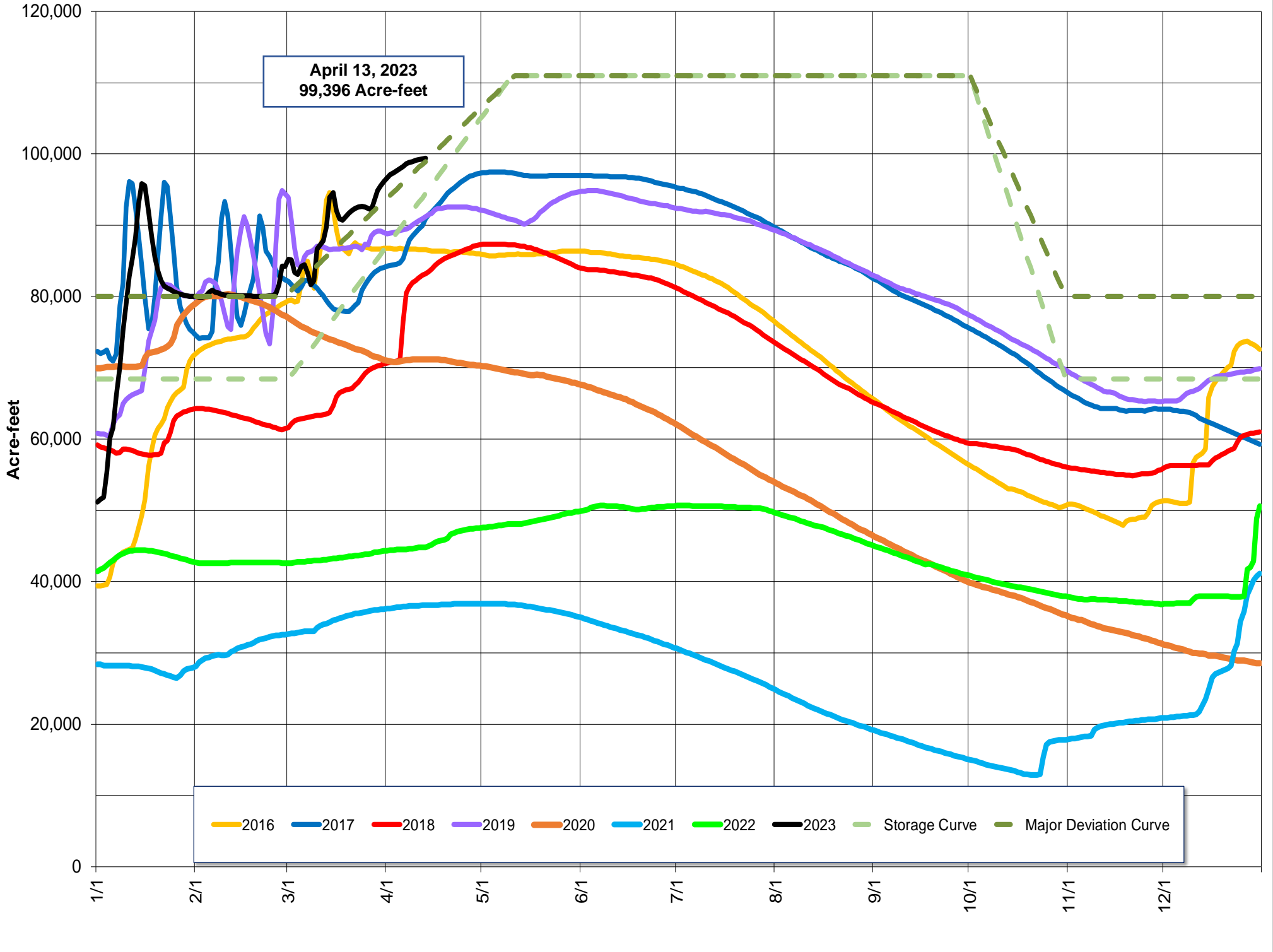
**Instream Flow Requirements as of April 13, 2023**

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**

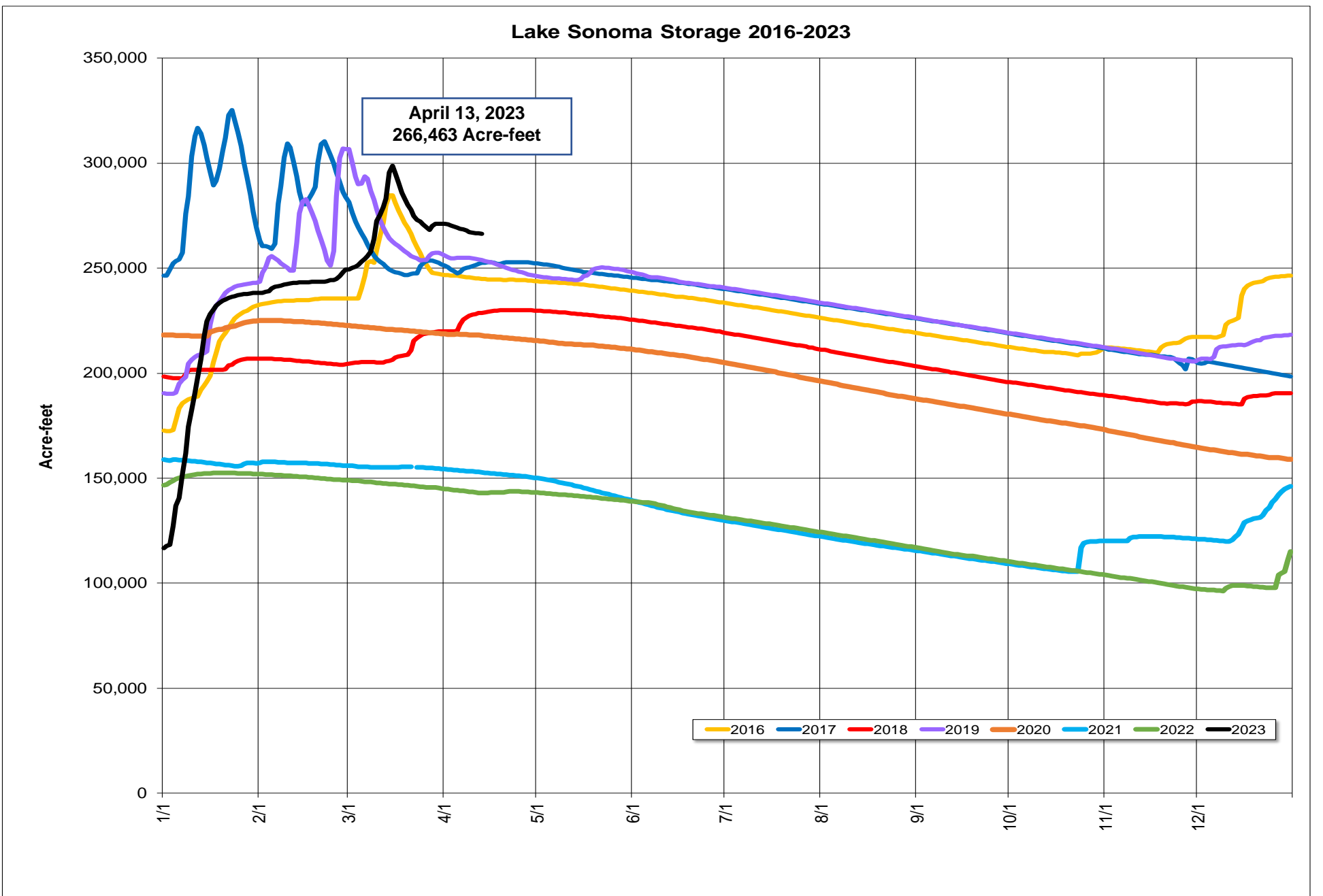


Storage (acre-feet)	April 13, 2023	<b>99,396</b>	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	<b>5,451</b>	<b>182</b>
	Last 7 days	<b>784</b>	<b>112</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>140</b>
		Max	<b>282</b>
		Mean	<b>191</b>
Release (cfs)	Last 7 days	Min	<b>78</b>
		Max	<b>104</b>
		Mean	<b>98</b>

# Lake Sonoma



Nathan Baskett, March 3, 2011



Storage (acre-feet)	April 13, 2023	<b>266,463</b>	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	<b>-28,960</b>	<b>-965</b>
	Last 7 days	<b>-1,988</b>	<b>-284</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>232</b>
		Max	<b>603</b>
		Mean	<b>347</b>
Release (cfs)	Last 7 days	Min	<b>275</b>
		Max	<b>694</b>
		Mean	<b>493</b>

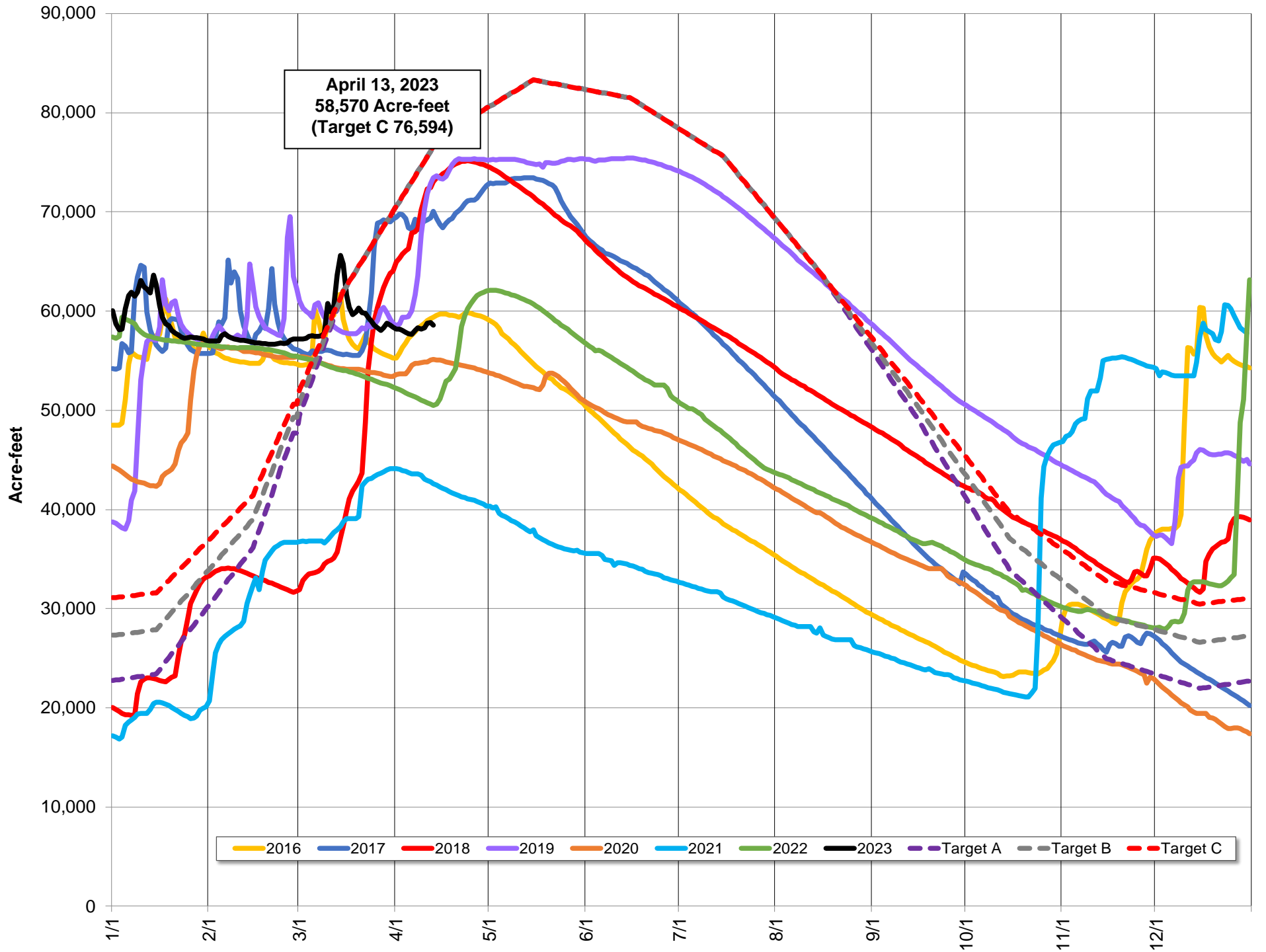
# Potter Valley Project

PVP Diversion (cfs)	April 13, 2023	45
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2022 - April 13, 2023	526,105	2,698
	Last 7 days	23,160	3,309

\*Inflow calculation based on criteria established in D1610

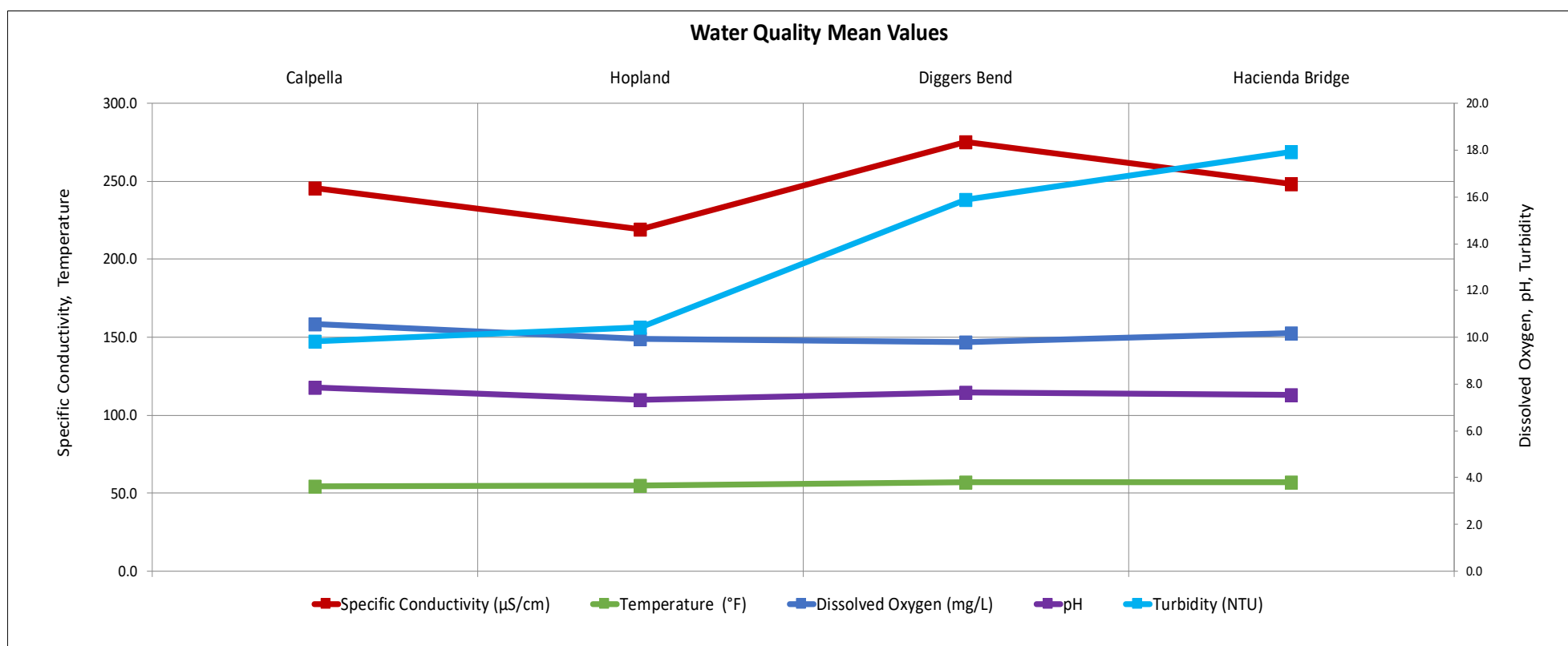
### Lake Pillsbury Storage 2016 - 2023 and Target Storage Scenarios



### Russian River Flows (April 7, 2023 - April 13, 2023)

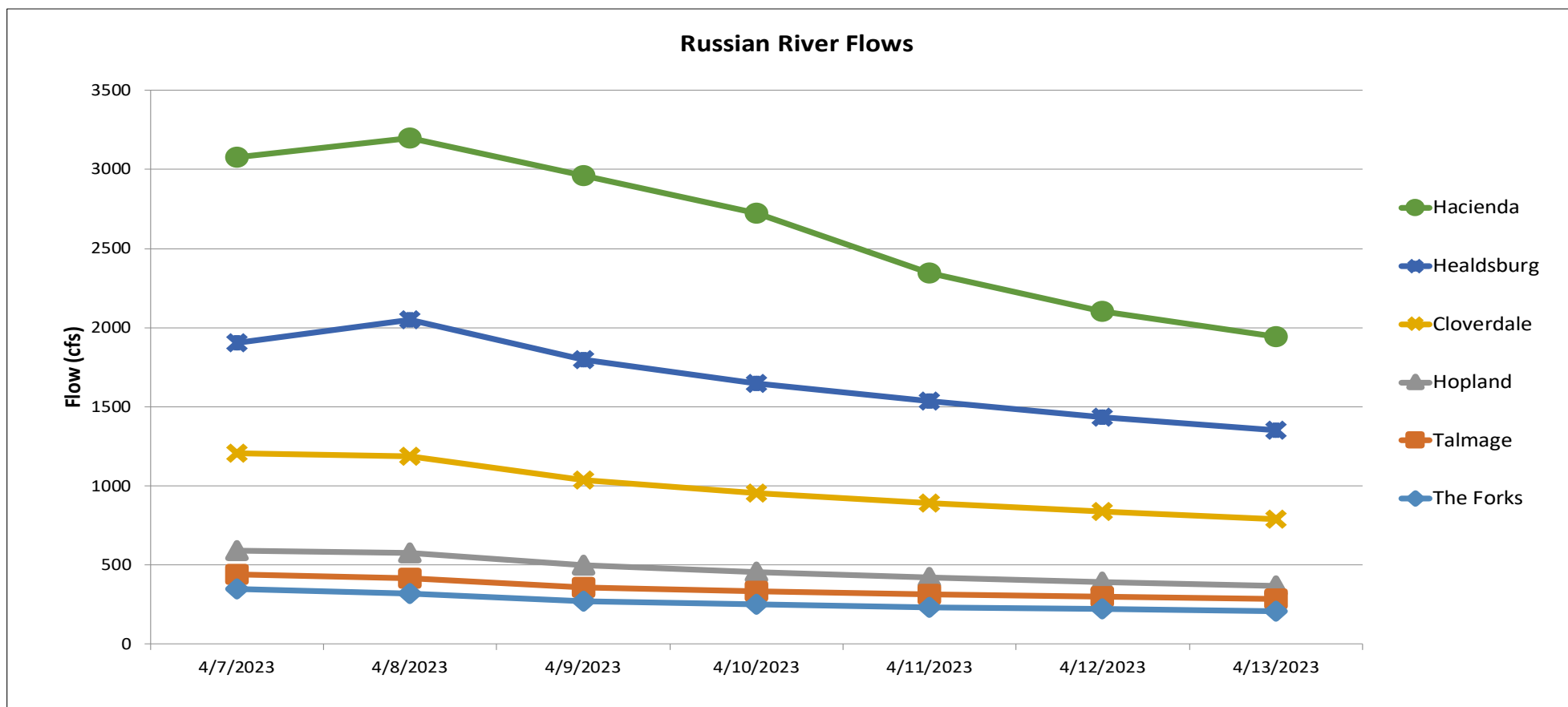
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	50.2	51.6		53.2	53.6		53.4	
	Max	59.5	58.8		62.1	61.9		61.2	
	Mean	54.3	54.8		57.0	57.1		56.8	
Specific Conductivity (µS/cm)	Min	236.0	191.0			256.0		231.0	
	Max	261.0	233.0			291.0		270.0	
	Mean	245.9	219.5			275.2		248.2	
Dissolved Oxygen (mg/L)	Min	9.8	9.3			9.3		9.7	
	Max	11.6	10.4			10.2		10.6	
	Mean	10.6	9.9			9.8		10.2	
Dissolved Oxygen (% Saturation)	Min	94.6	89.7			91.0		95.1	
	Max	108.6	98.2			98.8		101.1	
	Mean	98.9	93.4			94.8		98.2	
pH	Min	7.7	7.3			7.6		7.5	
	Max	8.1	7.4			7.7		7.6	
	Mean	7.8	7.3			7.6		7.5	
Turbidity (NTU)	Min	4.8	7.5			11.8		13.3	
	Max	16.3	24.6			22.9		25.1	
	Mean	9.8	10.4			15.9		17.9	

\*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	Apr 7, 2023	Apr 8, 2023	Apr 9, 2023	Apr 10, 2023	Apr 11, 2023	Apr 12, 2023	Apr 13, 2023
The Forks*	348	318	272	250	233	221	208
Talmage USGS 11462080	443	415	360	334	314	298	285
Hopland USGS 11462500	589	578	498	456	422	394	370
Cloverdale USGS 11463000	1208	1185	1038	954	891	837	788
Healdsburg USGS 11464000	1907	2051	1799	1649	1538	1435	1353
Hacienda USGS 11467000	3078	3198	2962	2722	2343	2105	1941

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

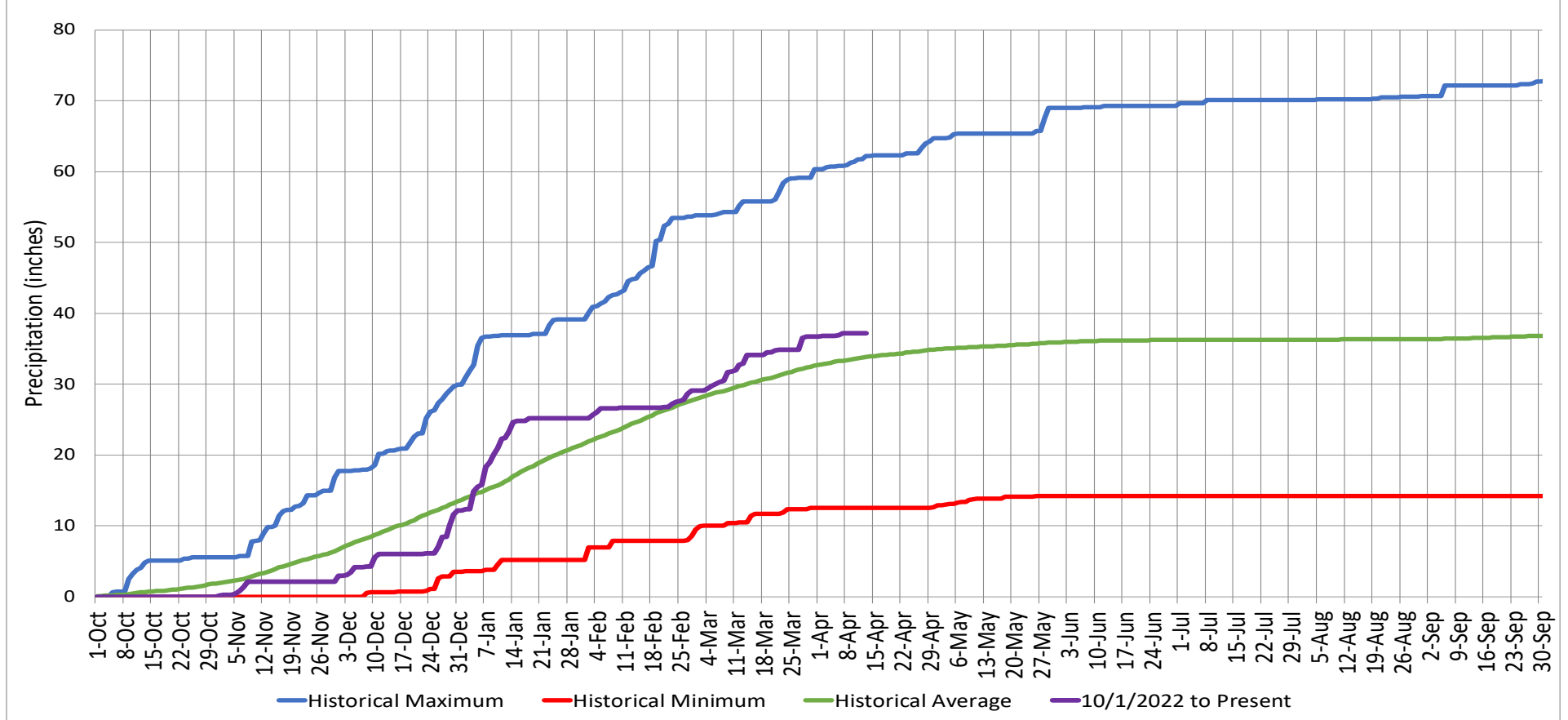


# Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

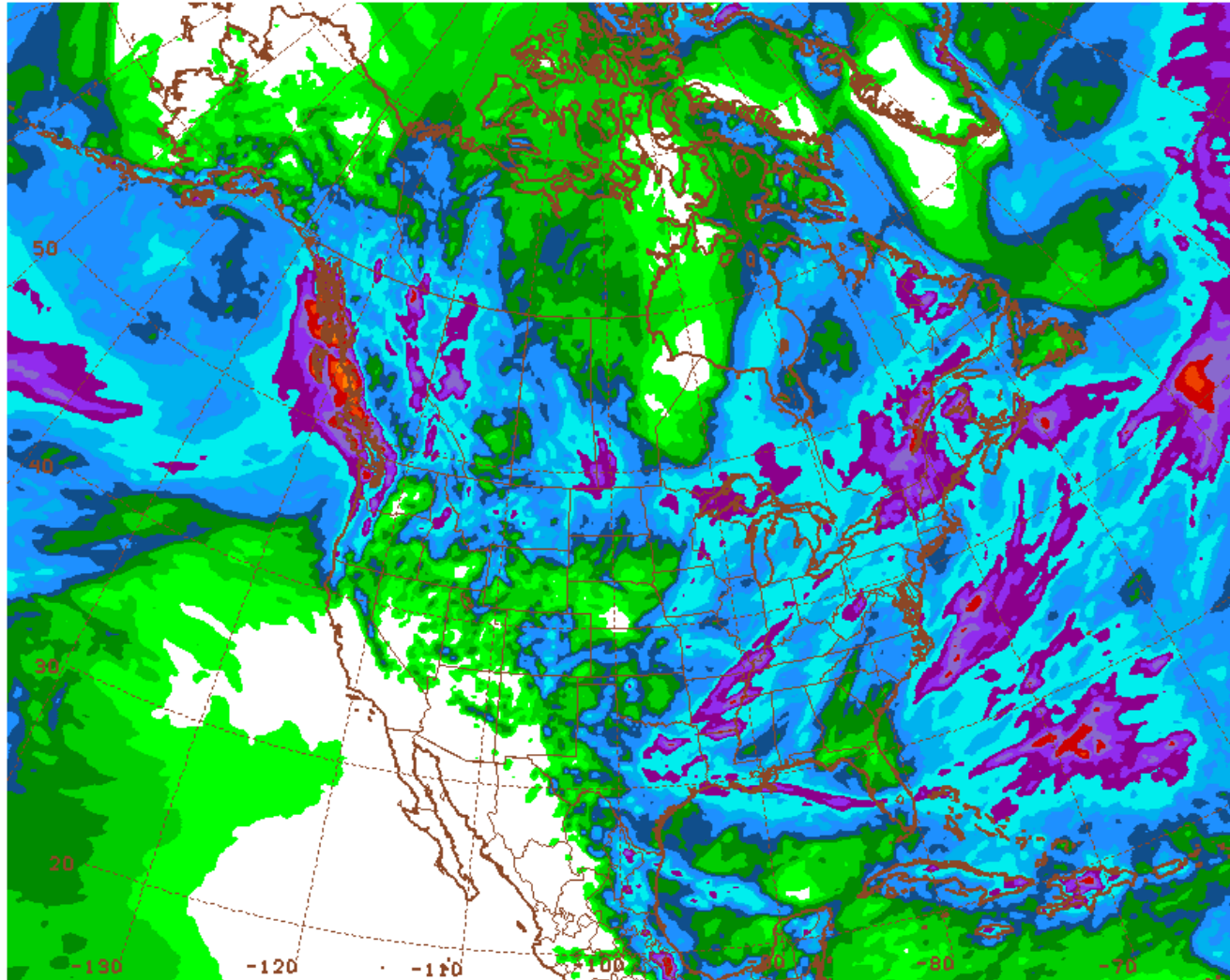
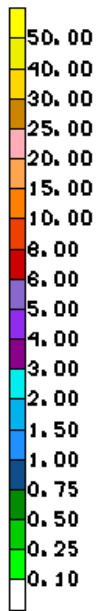
Date Range	Cumulative (inches)
Oct 1, 2022 - Apr 13, 2023	<b>37.17</b>
Last 7 Days*	<b>0.29</b>

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**