



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

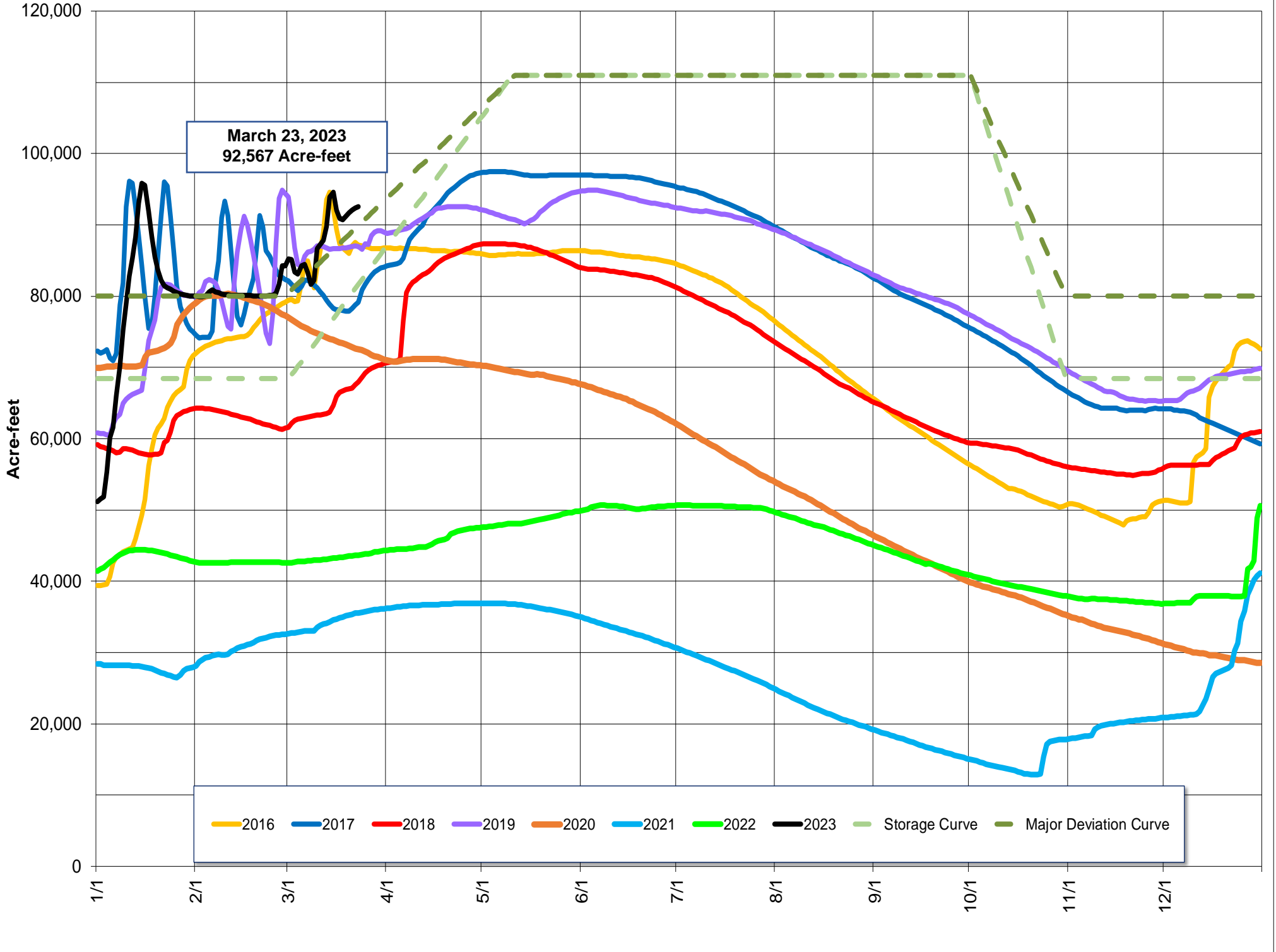
**Instream Flow Requirements as of March 23, 2023**

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

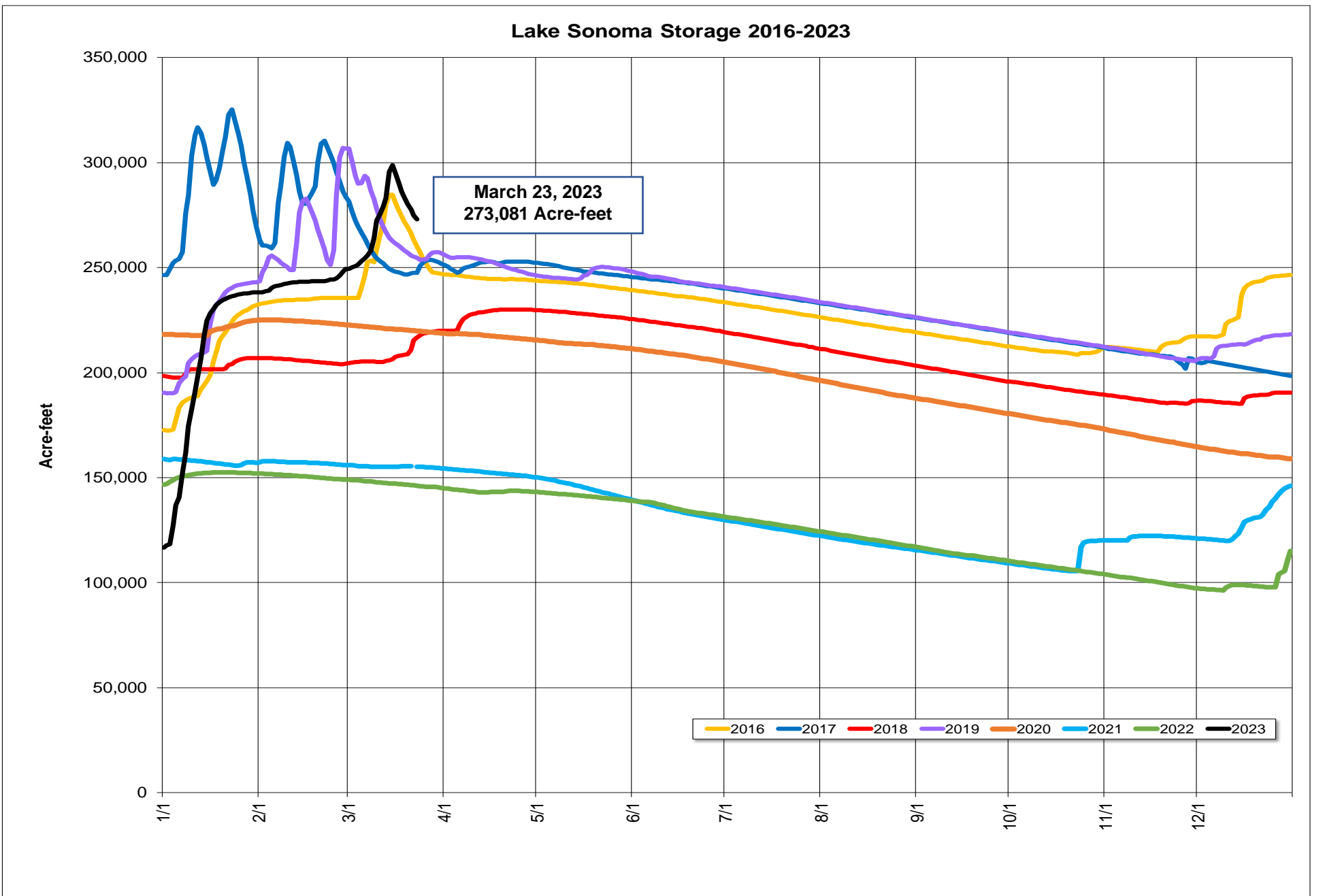


Storage (acre-feet)	March 23, 2023	<b>92,567</b>	
Change in Storage (acre-feet)	Last 30 days	<b>12,583</b>	Average Daily Rate
	Last 7 days	<b>1,691</b>	<b>242</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>264</b>
		Max	<b>583</b>
		Mean	<b>376</b>
Release (cfs)	Last 7 days	Min	<b>151</b>
		Max	<b>932</b>
		Mean	<b>339</b>

# Lake Sonoma



Nathan Baskett, March 3, 2011



Storage (acre-feet)	March 23, 2023	<b>273,081</b>	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	<b>29,409</b>	<b>980</b>
	Last 7 days	<b>-17,724</b>	<b>-2,532</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>376</b>
		Max	<b>1,579</b>
		Mean	<b>771</b>
Release (cfs)	Last 7 days	Min	<b>1,425</b>
		Max	<b>3,883</b>
		Mean	<b>2,372</b>

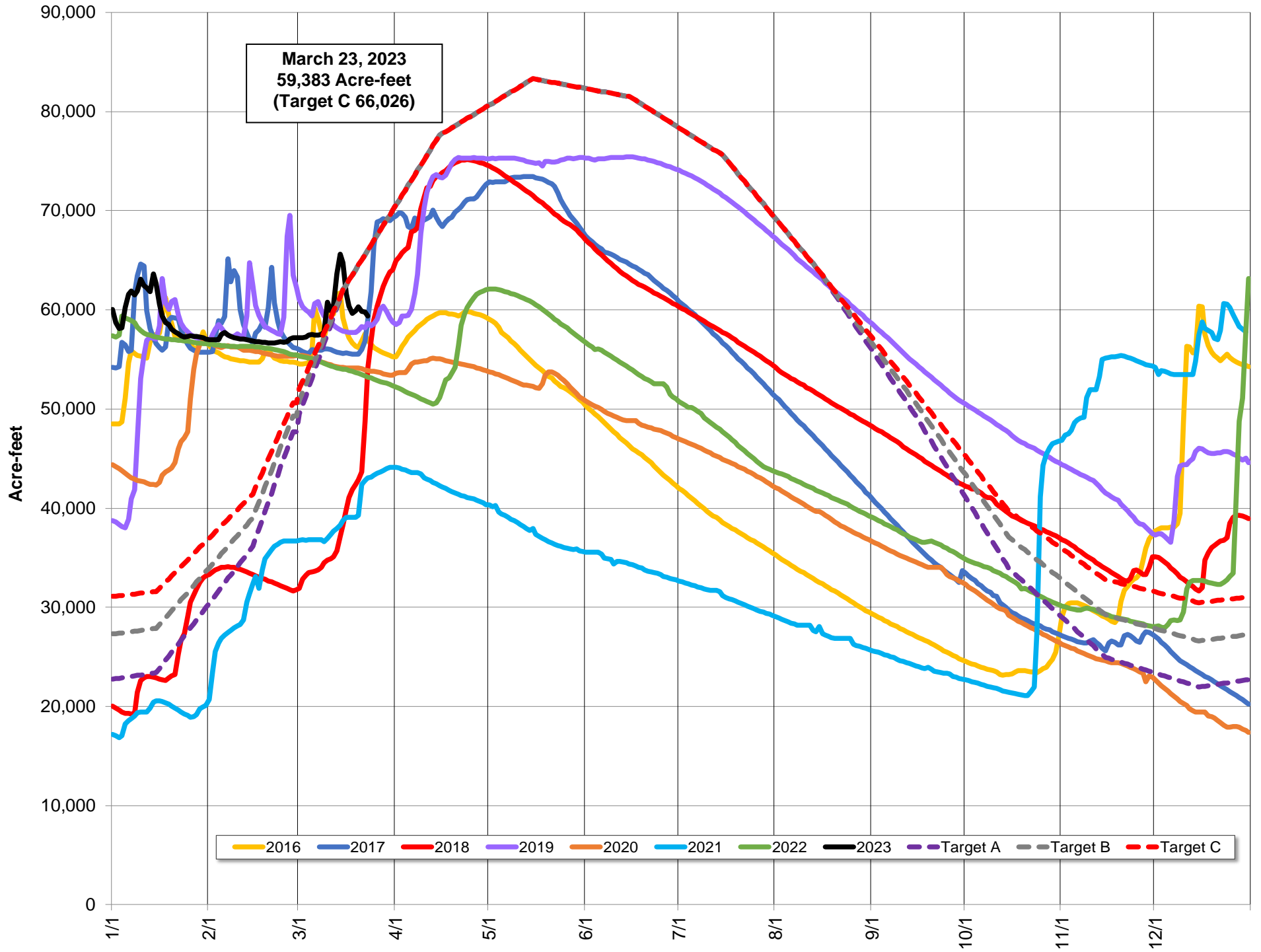
# Potter Valley Project

PVP Diversion (cfs)	March 23, 2023	45
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2022 - March 23, 2023	454,488	2,612
	Last 7 days	37,339	5,334

\*Inflow calculation based on criteria established in D1610

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

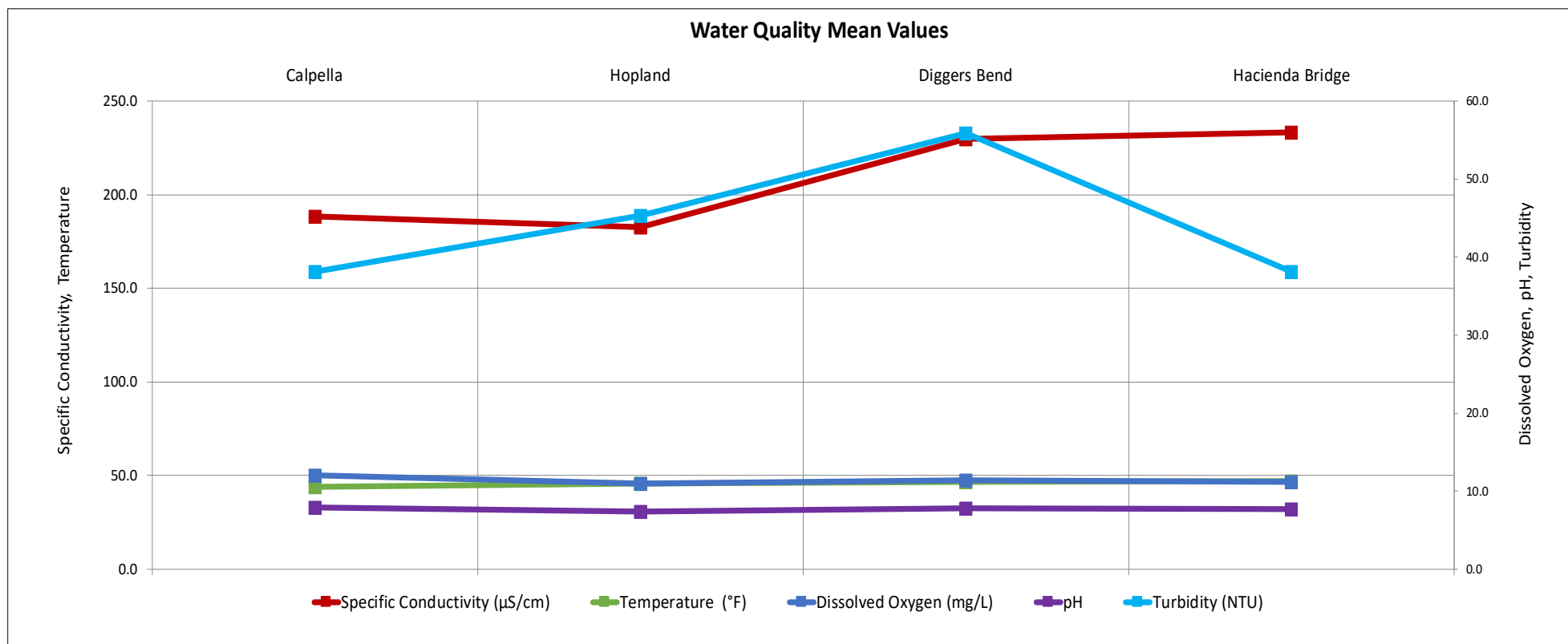




### Russian River Flows (March 17, 2023 - March 23, 2023)

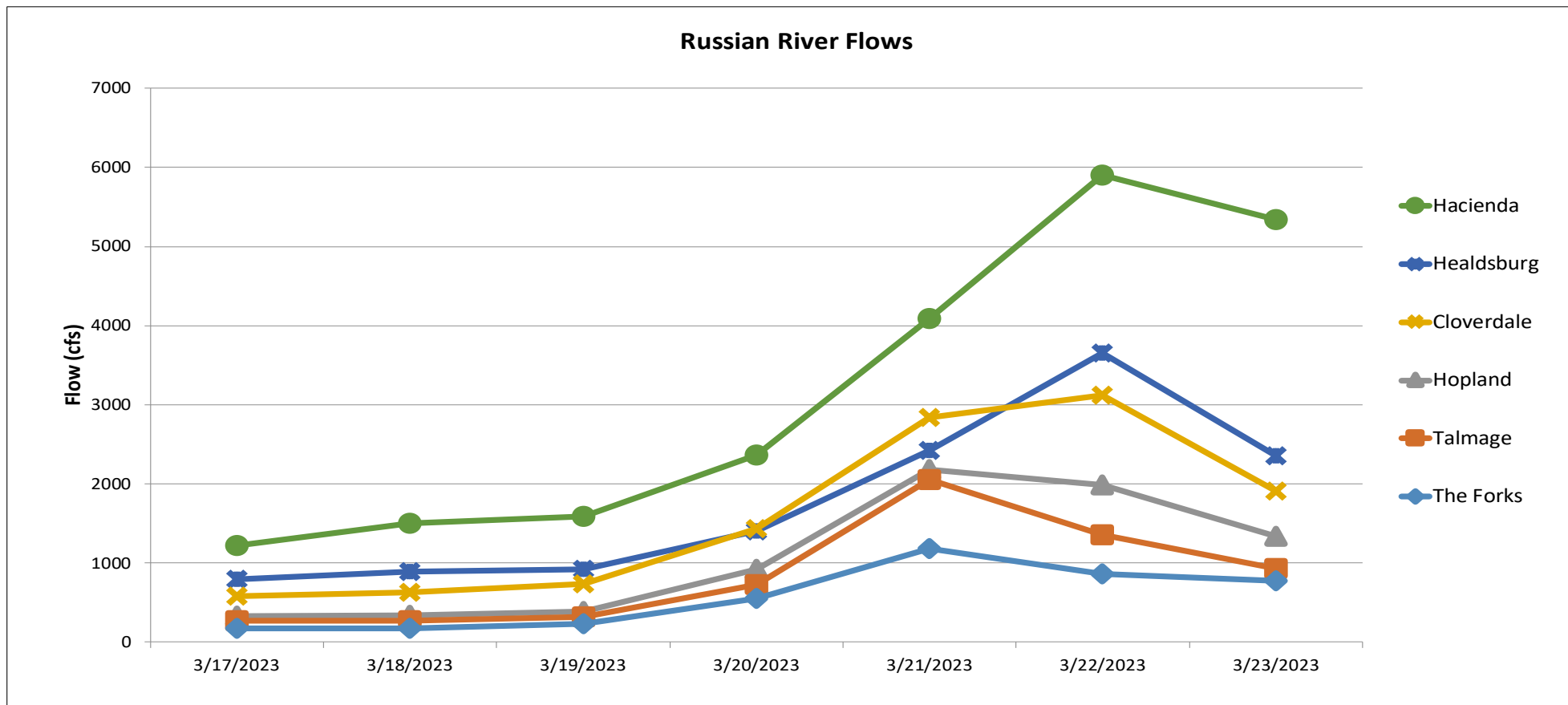
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	40.6	42.4		43.5	44.1		45.0	
	Max	47.1	48.9		50.2	49.6		49.6	
	Mean	44.1	45.7		46.5	46.7		47.1	
Specific Conductivity (µS/cm)	Min	103.0	102.0			146.0		162.0	
	Max	247.0	240.0			314.0		311.0	
	Mean	188.3	182.6			229.8		233.5	
Dissolved Oxygen (mg/L)	Min	9.6	10.4			10.4		10.9	
	Max	12.9	11.8			11.9		11.6	
	Mean	12.0	11.0			11.4		11.2	
Dissolved Oxygen (% Saturation)	Min	76.3	87.2			91.0		93.6	
	Max	107.6	96.5			100.0		99.1	
	Mean	98.6	92.6			96.7		95.6	
pH	Min	7.6	7.3			7.8		7.5	
	Max	8.3	7.6			7.9		7.8	
	Mean	7.9	7.4			7.8		7.7	
Turbidity (NTU)	Min	5.0	12.1			4.4		6.0	
	Max	288.0	220.0			646.0		108.0	
	Mean	38.2	45.3			55.9		38.2	

\*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	Mar 17, 2023	Mar 18, 2023	Mar 19, 2023	Mar 20, 2023	Mar 21, 2023	Mar 22, 2023	Mar 23, 2023
The Forks*	173	179	232	548	1184	866	776
Talmage USGS 11462080	267	274	315	725	2052	1357	929
Hopland USGS 11462500	325	342	384	924	2183	1988	1334
Cloverdale USGS 11463000	580	625	735	1432	2840	3121	1905
Healdsburg USGS 11464000	790	893	923	1403	2421	3649	2351
Hacienda USGS 11467000	1223	1500	1588	2369	4093	5898	5344

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

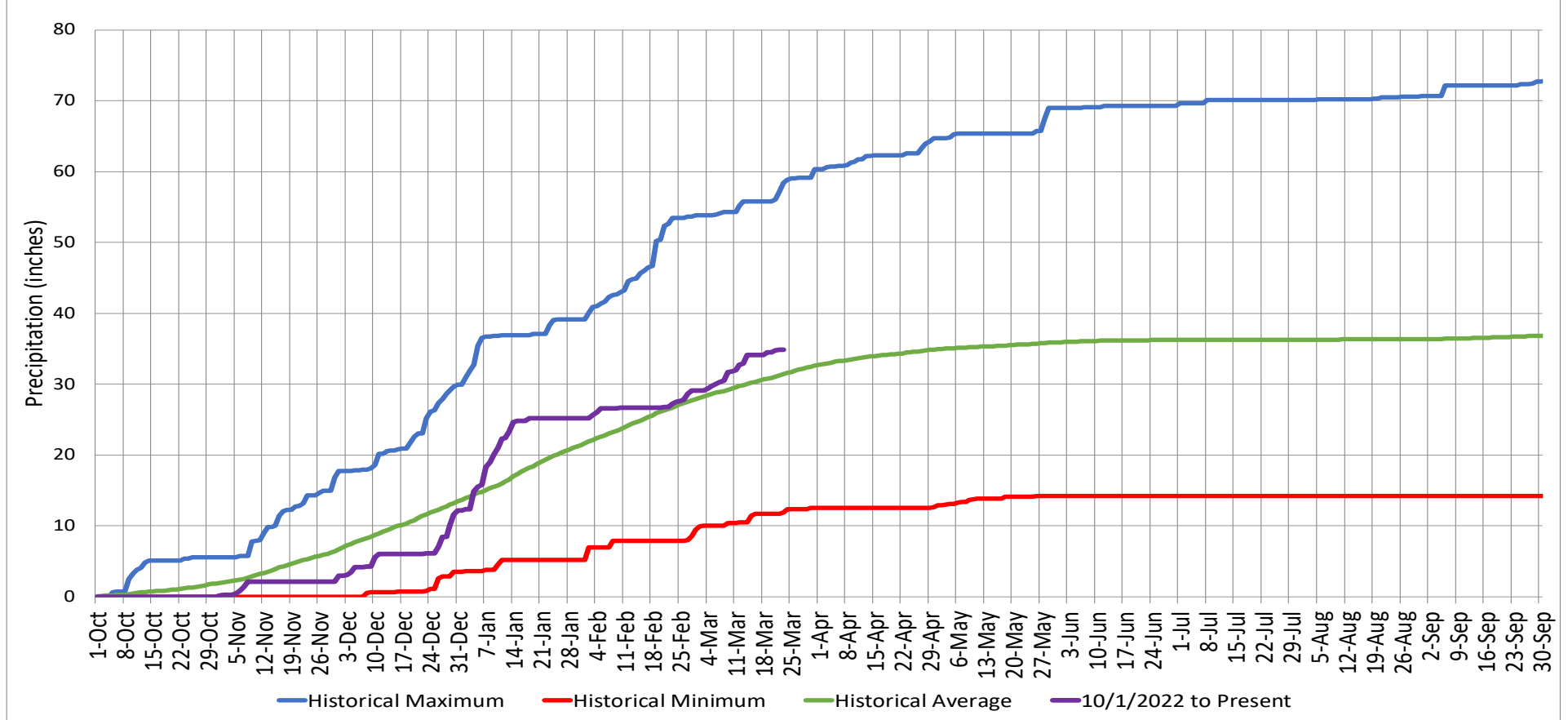


# Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

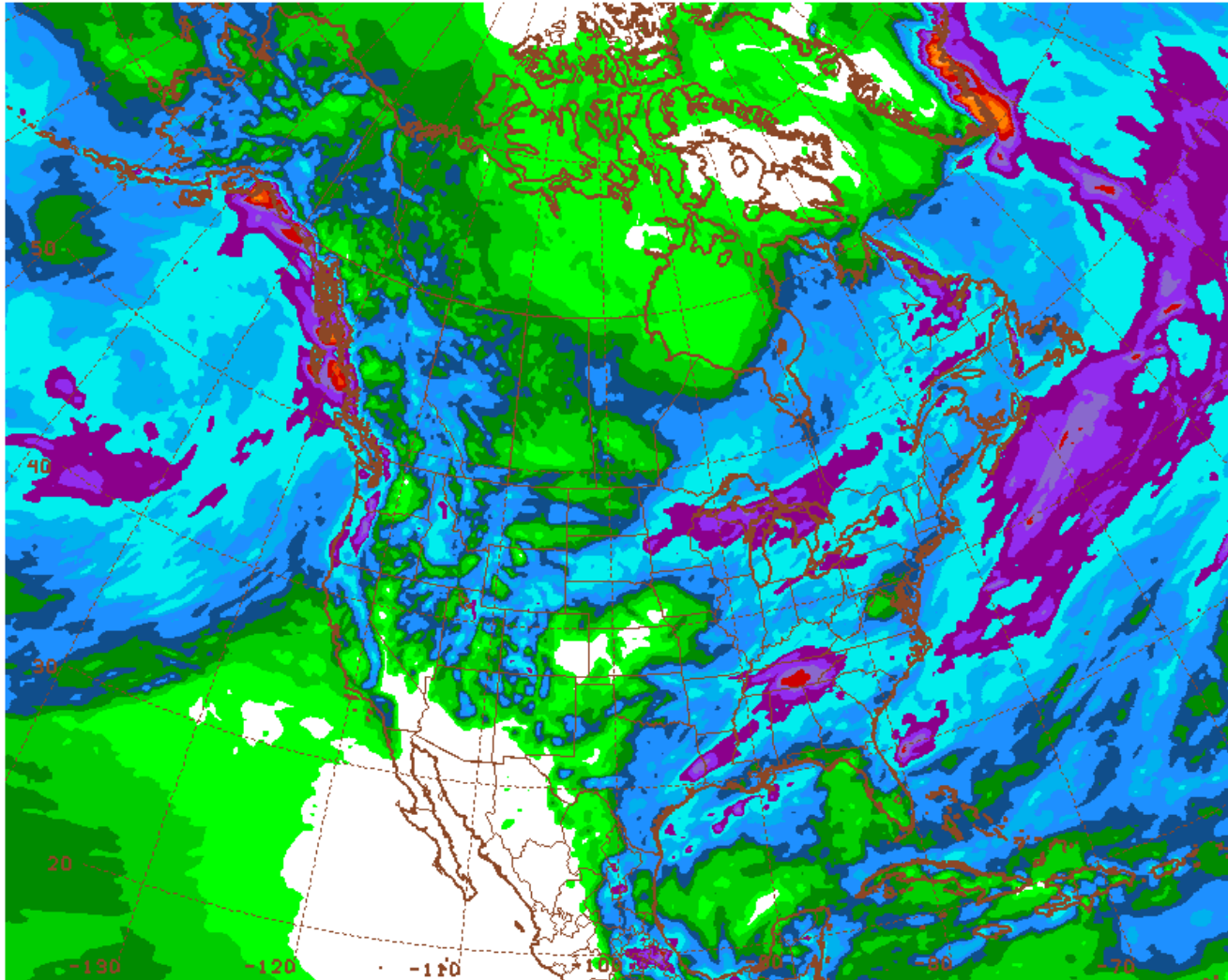
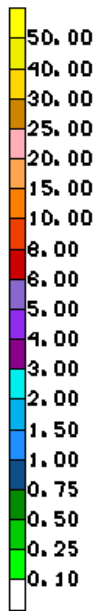
Date Range	Cumulative (inches)
Oct 1, 2022 - Mar 23, 2023	<b>34.82</b>
Last 7 Days*	<b>0.74</b>

Cumulative Precipitation Comparison of Current Year versus Historic Record



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

GFS 03/29/23 12UTC 384HR FCST VALID FRI 04/14/23 12UTC NOAA/NWS/NCEP



GFS FRI 230414/1200Y384 384HR ACCUMULATED PRECIP (IN)

Date Range  
Mar 29 - Apr 14, 2023

Forecasted Cumulative (inches)  
**0.34**