

Memo

To: MCCSD Board of Directors
From: District Superintendent
cc: Jim Jackson
Date: November 22, 2022
Re: Groundwater Management Report

The 2022-23 Rain Year

October 1, 2022 was the beginning of the 2022-23 rain year. Average annual precipitation in Mendocino is 39.72 inches, and average rainfall in November is 4.99” inches 2.52” inches of rainfall has been measured in the District for the month as of November 22, 2022 (Figure 1, Table 1).

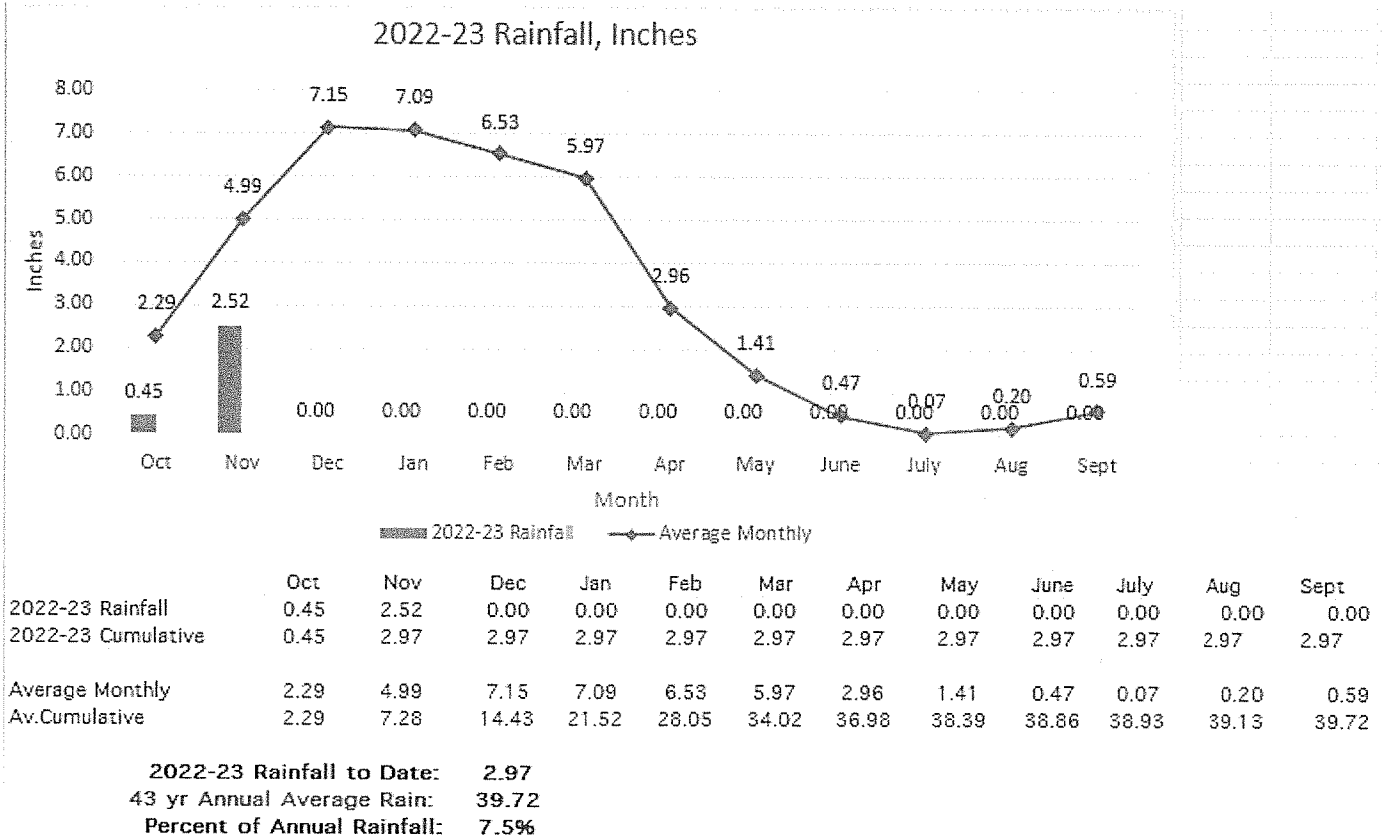


Figure 1, Table 1

Table 1 2022-23 Rainfall Record

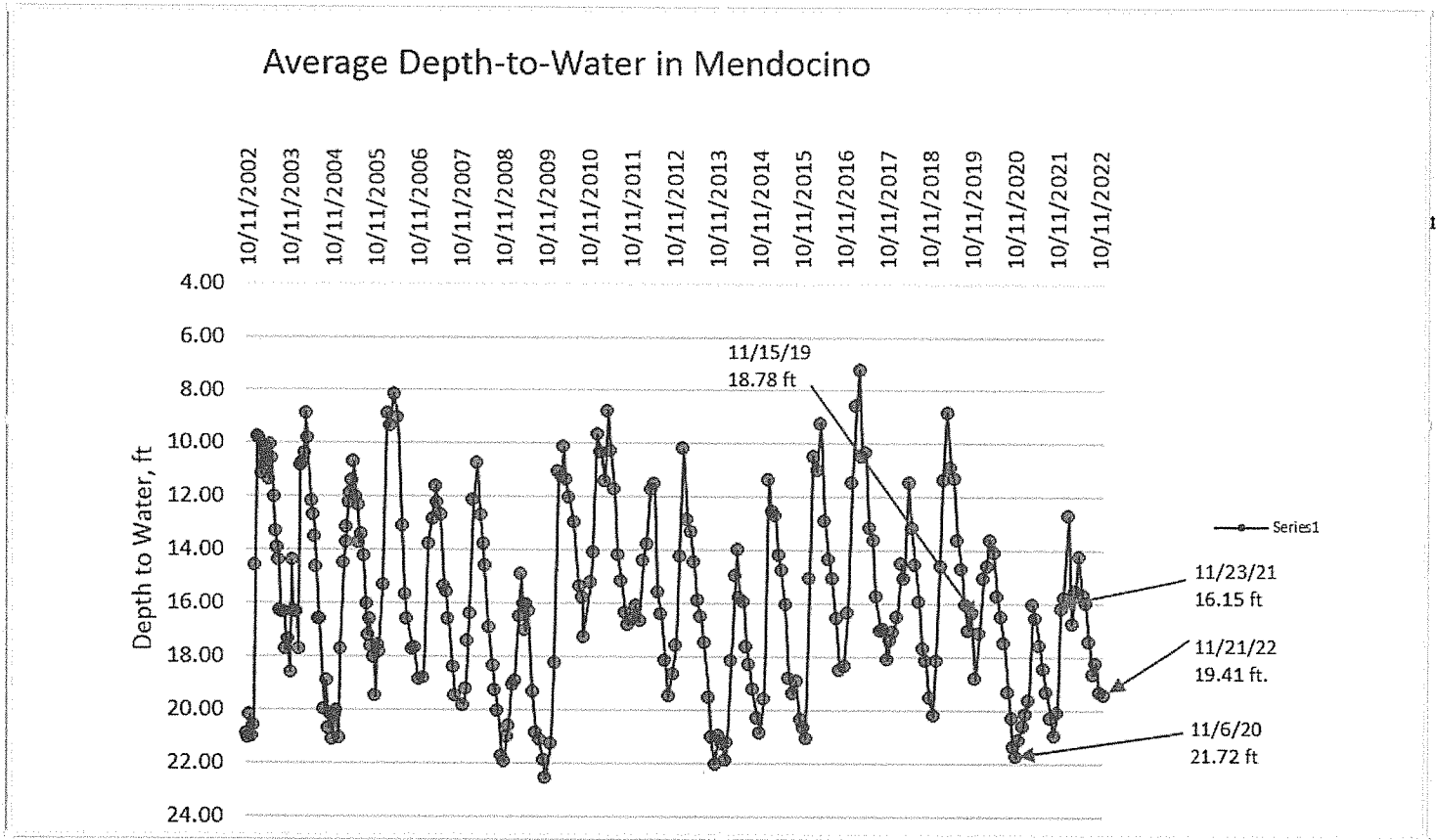
Total Rainfall for Rain Year 2021-22 was 33.82" inches. Mendocino received just 85% of normal annual rainfall during the last water year. By November 22, 2022, total rainfall since October 1, 2022 was 2.97" inches, 7.5% of average annual rainfall.

		DAILY TOTAL RAINFALL												
2022-23													<i>Elevation 72 Feet</i>	
													<i>Latitude 38.806°</i>	
Data From: Community Service District								10AM					<i>Longitude -123.800°</i>	
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		
1		0.05												
2														
3		0.02												
4	0.02	0.68												
5	0.01	0.07												
6	0.01	0.53												
7		0.83												
8		0.13												
9														
10	0.03	0.01												
11	0.02	0.11												
12	0.02	0.03												
13	0.02	0.04												
14														
15		0.02												
16	0.01													
17	0.01													
18	0.02													
19														
20														
21	0.05													
22														
23														
24	0.02													
25														
26														
27														
28														
29														
30														
31	0.21													
Sum	0.45	2.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Count	13	12	0	0	0	0	0	0	0	0	0	0		
Max	0.21	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Rainy Days		25												
Maximum Daily Rainfall				0.83										
											Water year Total Rainfall		2.97	

November 2022 Depth-to-Water (DTW)

The average DTW measurements District-wide in the 24 monitoring wells on November 21, 2022 was 19.41 ft.; about one inch lower than October, about 3 ft. lower than November of 2021, and about 1.3 ft. better than November of 2020. Compared to a good rain year like 2019, which received 45.64" inches, the average depth to water is currently about 0.6 ft. below normal for the month.

Figure 2 November 2022, Depth-To-Water Chart



The average depth-to-water reported from the five drought monitoring wells on November 21, 2022 was 22.85 ft., about three inches lower than October 17, 2022 where it was recorded at 22.49 ft.

The MCCSD Board declared a Stage 2 Water Shortage Crisis exists within its boundaries on September 26, 2022, based the Water Shortage Contingency Plan and average depth to water recorded in the five drought monitoring wells as of August 31, 2022. November 30, represents the next Water Shortage evaluation date. At that time both rainfall and depth to water measurements will be used to conduct another evaluation. The Superintendent recommends maintaining the Stage 2 Water Shortage at this time.