

Memo

To: MCCSD Board of Directors
From: District Superintendent
cc: Jim Jackson
Date: December 1, 2023
Re: Groundwater Management Report

The 2023-24 Rain Year

October 1, 2023 was the beginning of the 2023-24 rain year. Average annual precipitation in Mendocino is 39.20 inches, and average rainfall in November is 4.86" inches. 2.38" inches of rainfall has been measured in the District for the month, as of November 30, 2023 (Figure 1, Table 1).

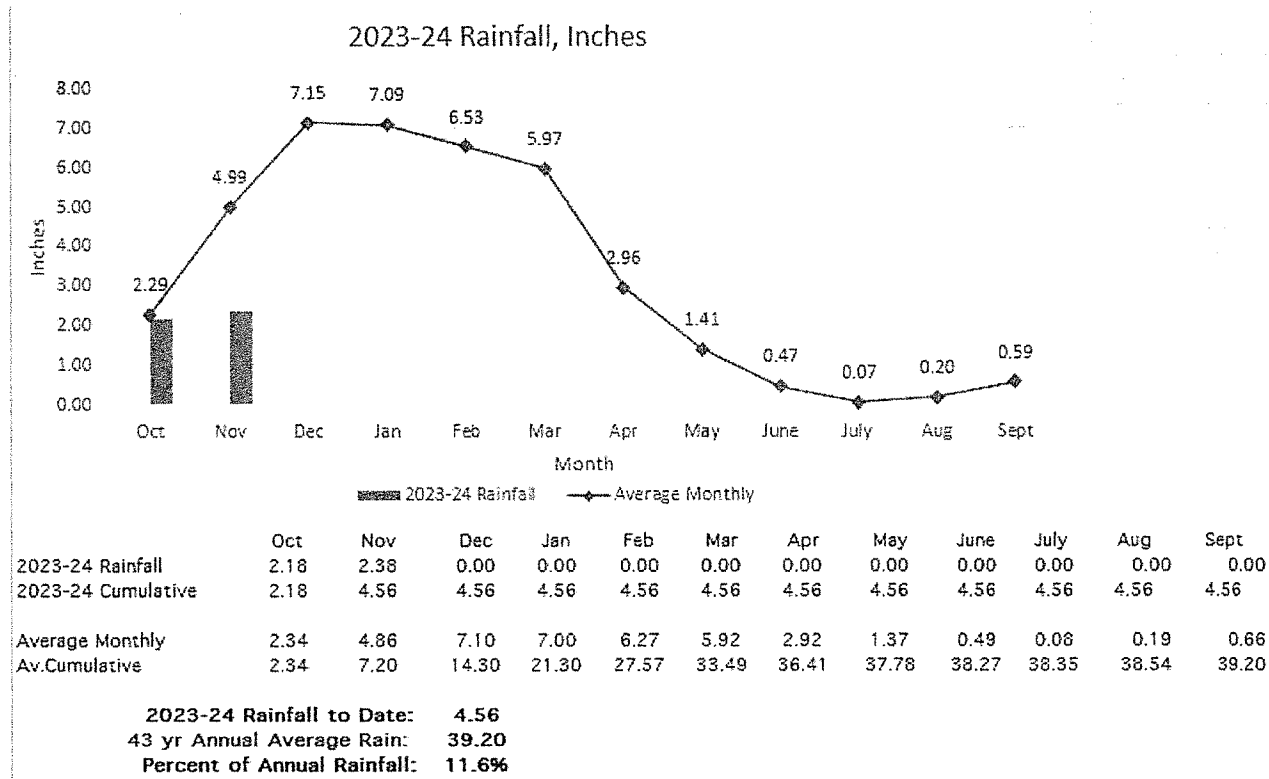


Figure 1, Table 1

Total Rainfall for Rain Year 2022-23 was 41.93" inches. Mendocino received 106% of normal annual rainfall during the last water year. By November 30, 2023, total rainfall since October 1, 2023 was 4.56" inches, 11.6% of average annual rainfall.

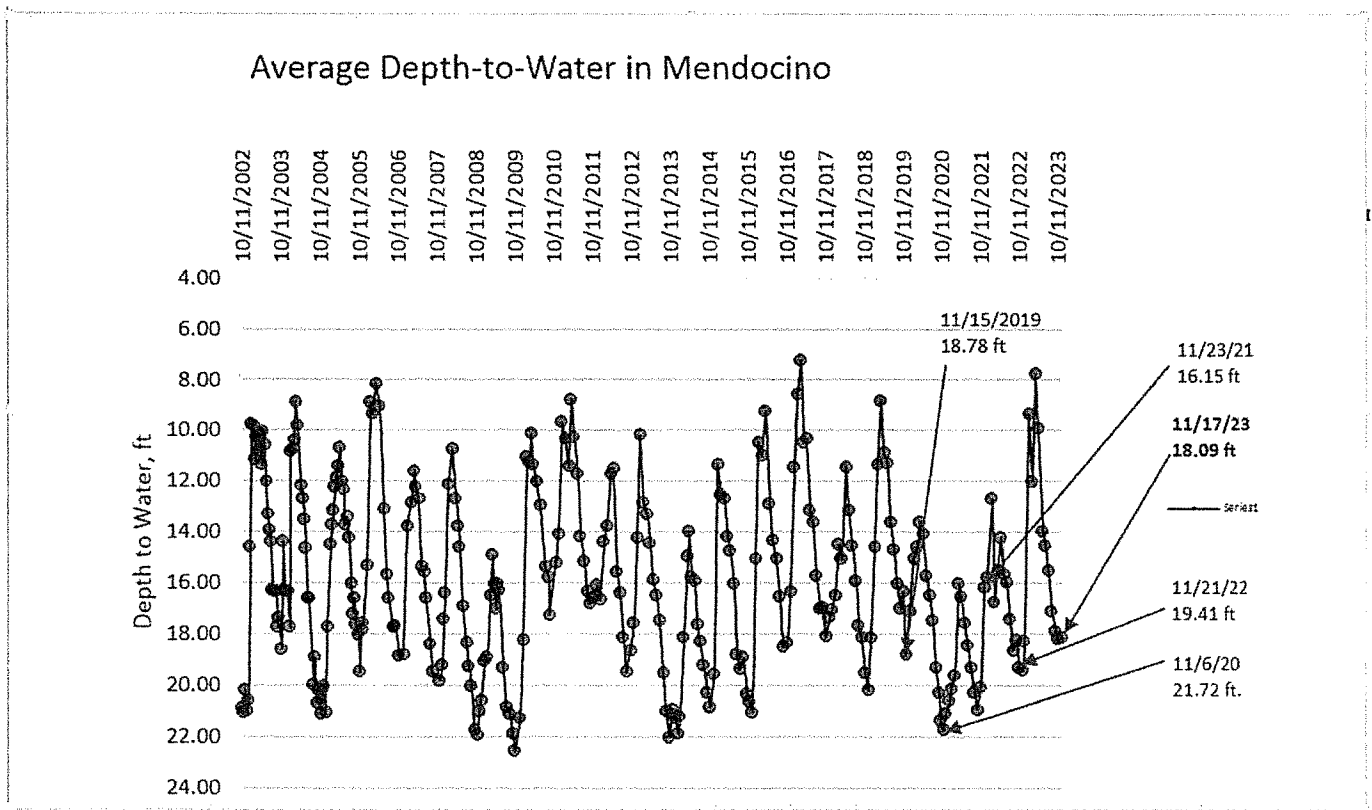
DAILY TOTAL RAINFALL												
2023-24											<i>Elevation 72 Feet</i>	
											<i>Latitude 39.806°</i>	
Data From : Community Service District											<i>Longitude -123.600°</i>	
Day	Oct	Nov	Dec	Jan	Feb	Mar	10AM Apr	May	Jun	Jul	Aug	Sep
1	0.01											
2		.01										
3		0.03										
4		0.21										
5		0.37										
6		0.08										
7	0.02	0.01										
8	0.24	0.01										
9	0.08											
10	0.19											
11	0.02											
12	0.01	0.03										
13	0.01	0.16										
14		0.39										
15		0.03										
16	0.29	0.03										
17	0.02	0.47										
18	0.02	0.09										
19	0.01											
20												
21	0.26	0.01										
22	0.87	0.01										
23	0.01											
24												
25	0.10											
26												
27												
28		0.20										
29	0.02	0.01										
30		0.24										
31												
Sum	2.18	2.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Count	17	18	0	0	0	0	0	0	0	0	0	0
Max	0.87	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rainy Days		35						Water year Total Rainfall				4.56
Maximum Daily Rainfall				0.87								

Table 1 2023-24 Rainfall Record

November 2023 Depth-to-Water (DTW)

The average DTW measurements District-wide in the 24 monitoring wells on November 17, 2023 was 18.09' ft. DTW averages are about 0.07 ft. better than October of 2023, about 1.3 ft. better than November of 2022, and about 2 ft. lower than November of 2021. The DTW averages in the 5 drought monitoring wells reported at 22.13 ft.

Figure 2 November 2023, Depth-To-Water Chart



Following the Water Shortage Contingency Plan. The MCCSD Board declared on April 19, 2023 that no water shortage exists within the MCCSD boundaries. According to the Water Shortage Contingency Plan, (p. 14) "Calendar for Declaring Water Shortage,... If a water shortage is not declared by the end of May, no further evaluation is required until the following January 31." MCCSD staff continue to monitor and follow the plan. The MCCSD water table is on average at its lowest during October and November. The Superintendent recommends continued caution and conservation.