

Memo

To: MCCSD Board of Directors
From: District Superintendent
cc: Jim Jackson
Date: August 23, 2022
Re: Groundwater Management Report

The 2021-22 Rain Year

October 1, 2021 was the beginning of the 2021-22 rain year. Average annual precipitation in Mendocino is 39.72 inches, and average rainfall in August is 0.20” inches. 0.14” inches of rainfall has been measured in the District for the month as of August 23, (Figure 1, Table 1).

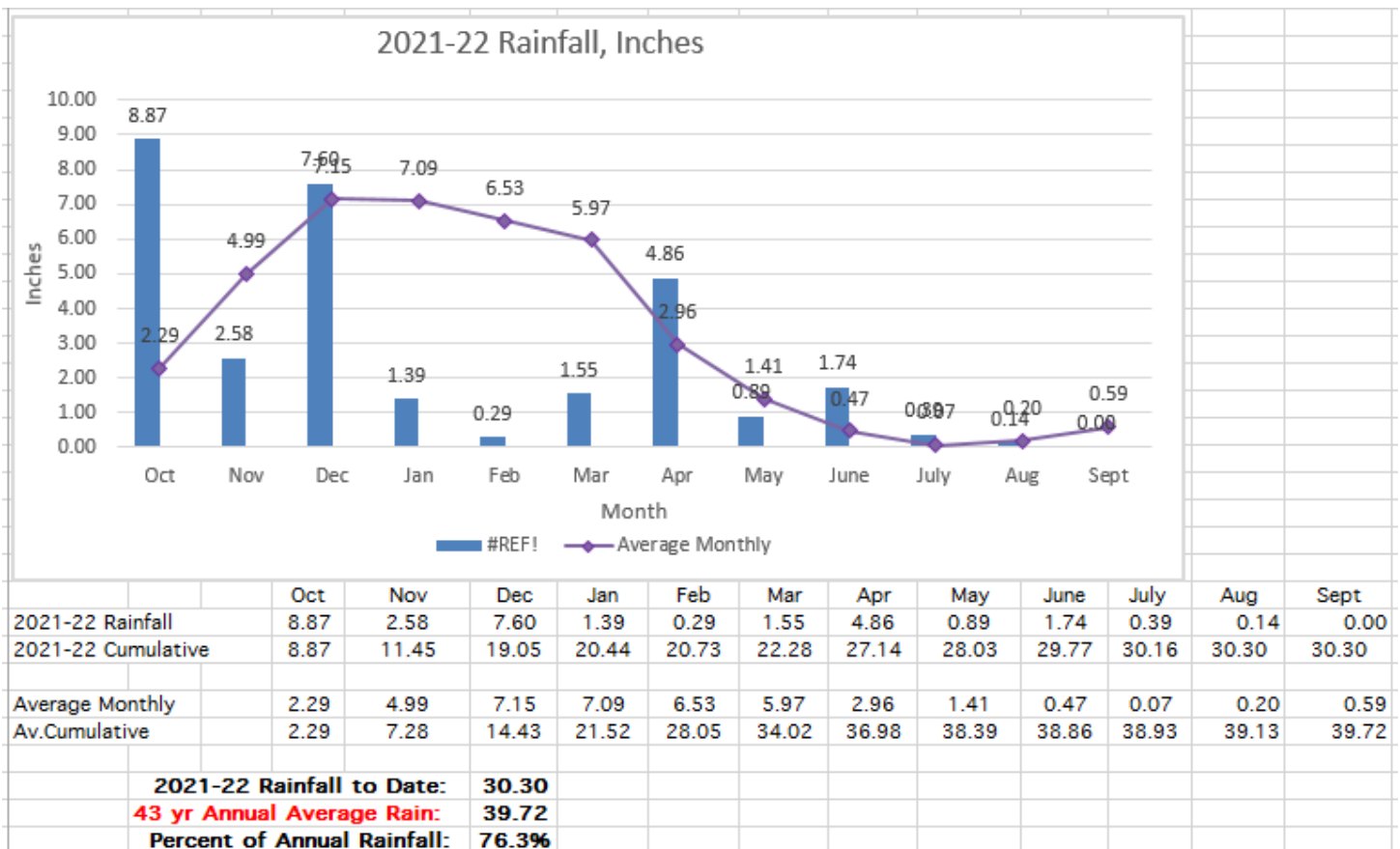


Figure 1, Table 1

Table 1 2021-22 Rainfall Record

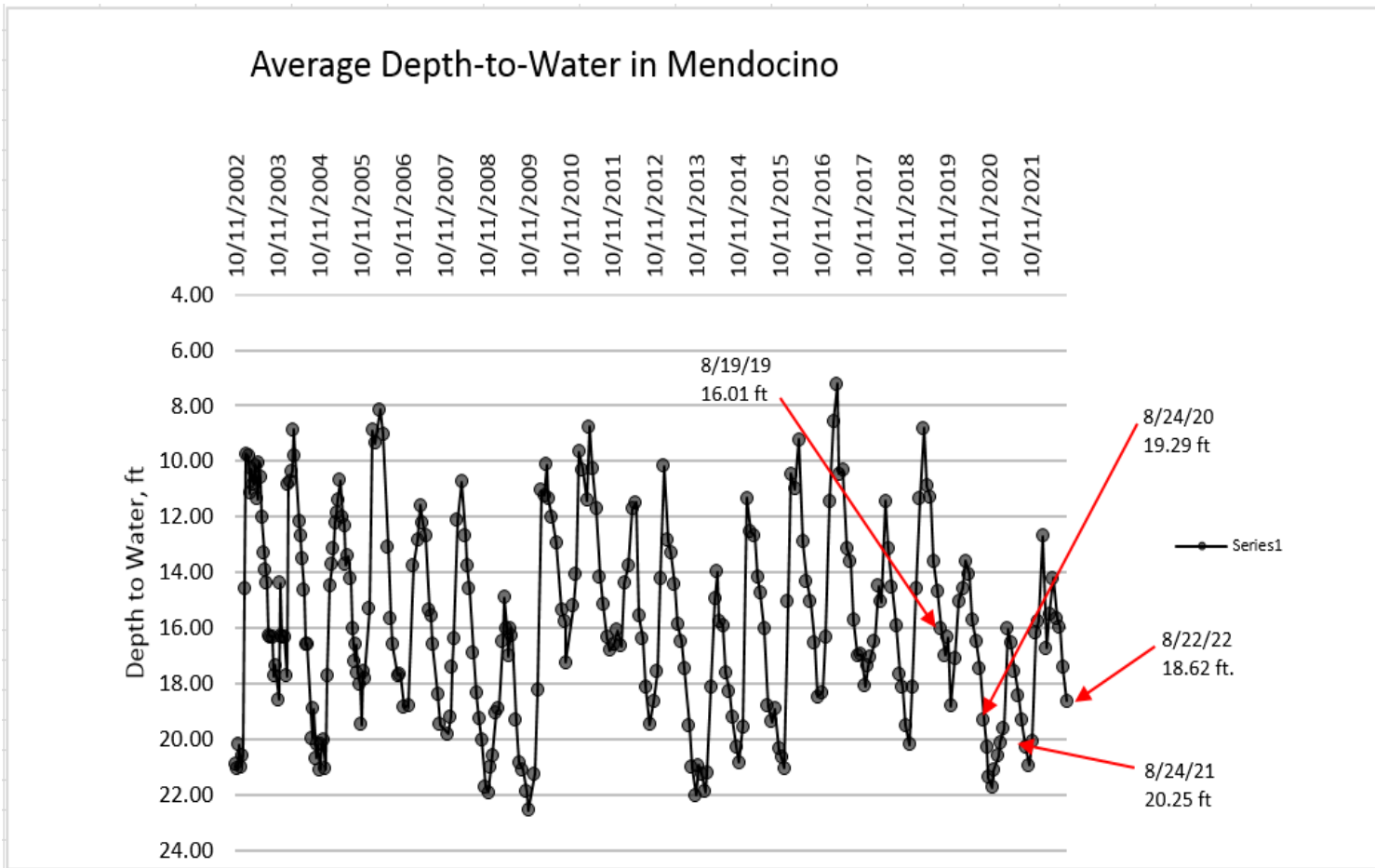
Total Rainfall for Rain Year 2020-21 was 19.6” inches. Mendocino received just 49.3% of normal annual rainfall during the last water year. By August 23, 2022, total rainfall since October 1, 2021 was 30.30” inches, 76% of annual rainfall.

DAILY TOTAL RAINFALL												
2021-22											<i>Elevation 72 Feet</i>	
Data From : Community Service District											10AM	
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1		0.49									0.05	
2				0.24							0.01	
3		0.40		0.38						0.03		
4				0.24			0.1		1.34	0.09		
5	0.06	0.13		0.02		0.12		0.13		0.08		
6			0.17	0.45				0.02		0.02		
7			0.03					0.23		0.05	0.01	
8		1.21		0.06				0.3		0.03		
9												
10							0.75					
11			0.97				0.04					
12			0.52			0.02	0.01		0.4			
13			0.65				1.63					
14			0.08			0.59	0.02	0.02				
15		0.10	1.30				0.84					
16			0.24									
17	0.57											
18		0.25				0.35	0.27			0.02	0.03	
19	0.60					0.03	0.14					
20	0.03						0.71			0.04		
21	1.94		0.62		0.29		0.32			0.03		
22	0.31		1.51								0.04	
23	4.05		0.09									
24	0.48		0.44			0.05						
25			0.06									
26	0.26		0.63					0.05				
27						0.39						
28			0.27					0.14				
29	0.09		0.02									
30	0.24						0.03					
31	0.24											
Sum	8.87	2.58	7.60	1.39	0.29	1.55	4.86	0.89	1.74	0.39	0.14	0.00
Count	12	6	16	6	1	7	12	7	2	9	5	0
Max	4.05	1.21	1.51	0.45	0.29	0.59	1.63	0.30	1.34	0.09	0.05	0.00
Rainy Days		83						Water year Total Rainfall				30.30
Maximum Daily Rainfall				4.05								

August 2022 Depth-to-Water (DTW)

The average DTW measurements District-wide in the 24 monitoring wells on August 22, 2022 was 18.62’ ft. about 1.2 ft. lower than last month, about 1.6 ft. better than August of 2021, and about 0.7 ft. better than August of 2020. Compared to a good rain year like 2019, which received 45.64” inches, the average depth to water is currently about 2.6 ft. below normal for the month.

Figure 2 August 2022, Depth-To-Water Chart



The average depth-to-water reported from the five drought monitoring wells on August 22, 2022 was 21.4 ft. about 1.2 ft. lower than last month.

The MCCSD Board declared a Stage 4 Water Shortage Crisis exists within its boundaries on March 28, 2022, based on total rainfall as of that time. August 31, represents the next Water Shortage evaluation date. The Water Shortage Contingency Plan recommends maintaining the Stage 4 Water Shortage as this time. The Superintendent agrees with the plan and will reevaluate after August 31, 2022.