

Memo

To: MCCSD Board of Directors
From: District Superintendent
cc: Jim Jackson
Date: July 22, 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 July is 0.07 inches. 0.39 inches of rainfall has been measured in the District for the month as of July 22, (Figure 1, Table 1).

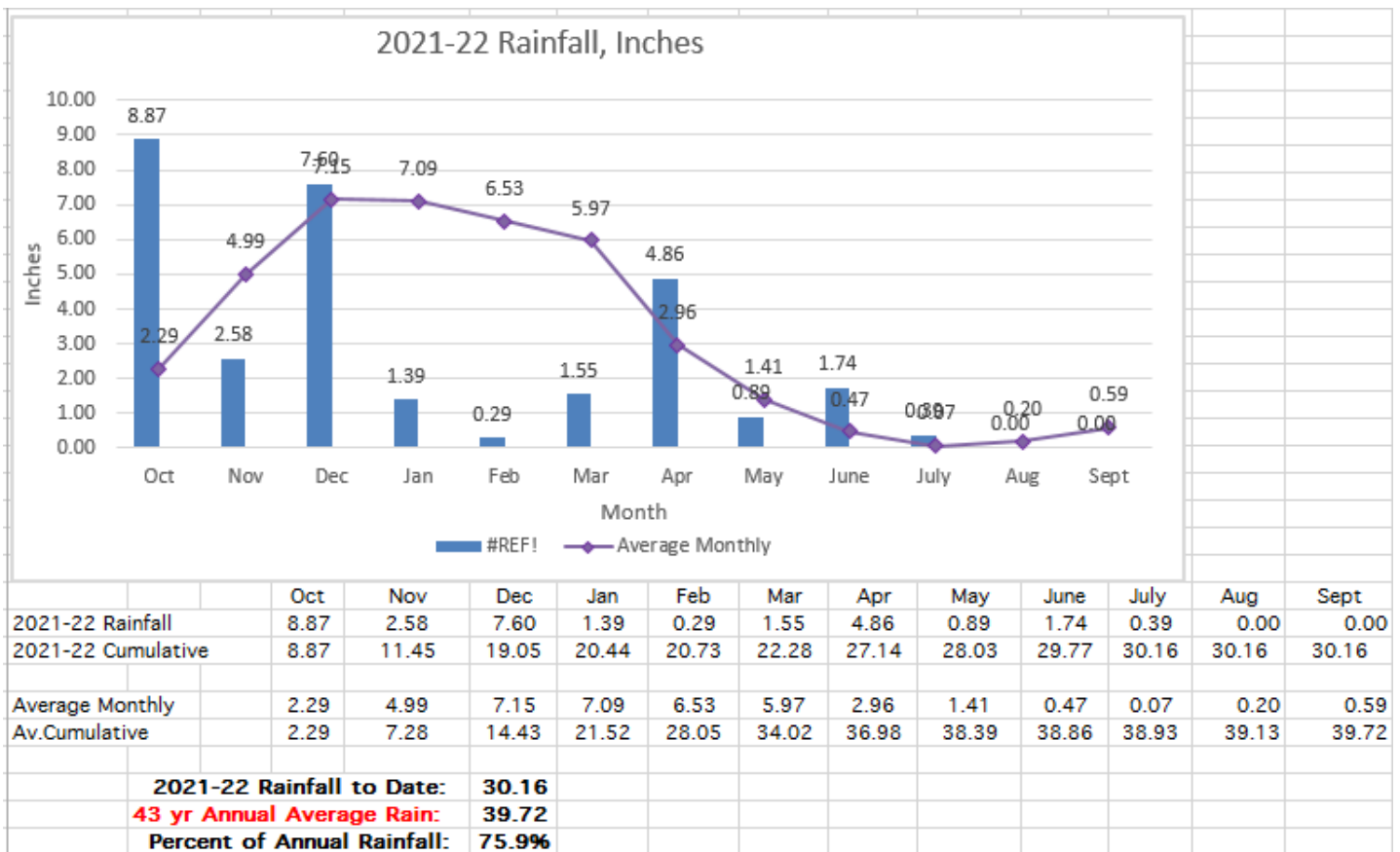


Figure 1, Table 1

Table 1 2021-22 Rainfall Record

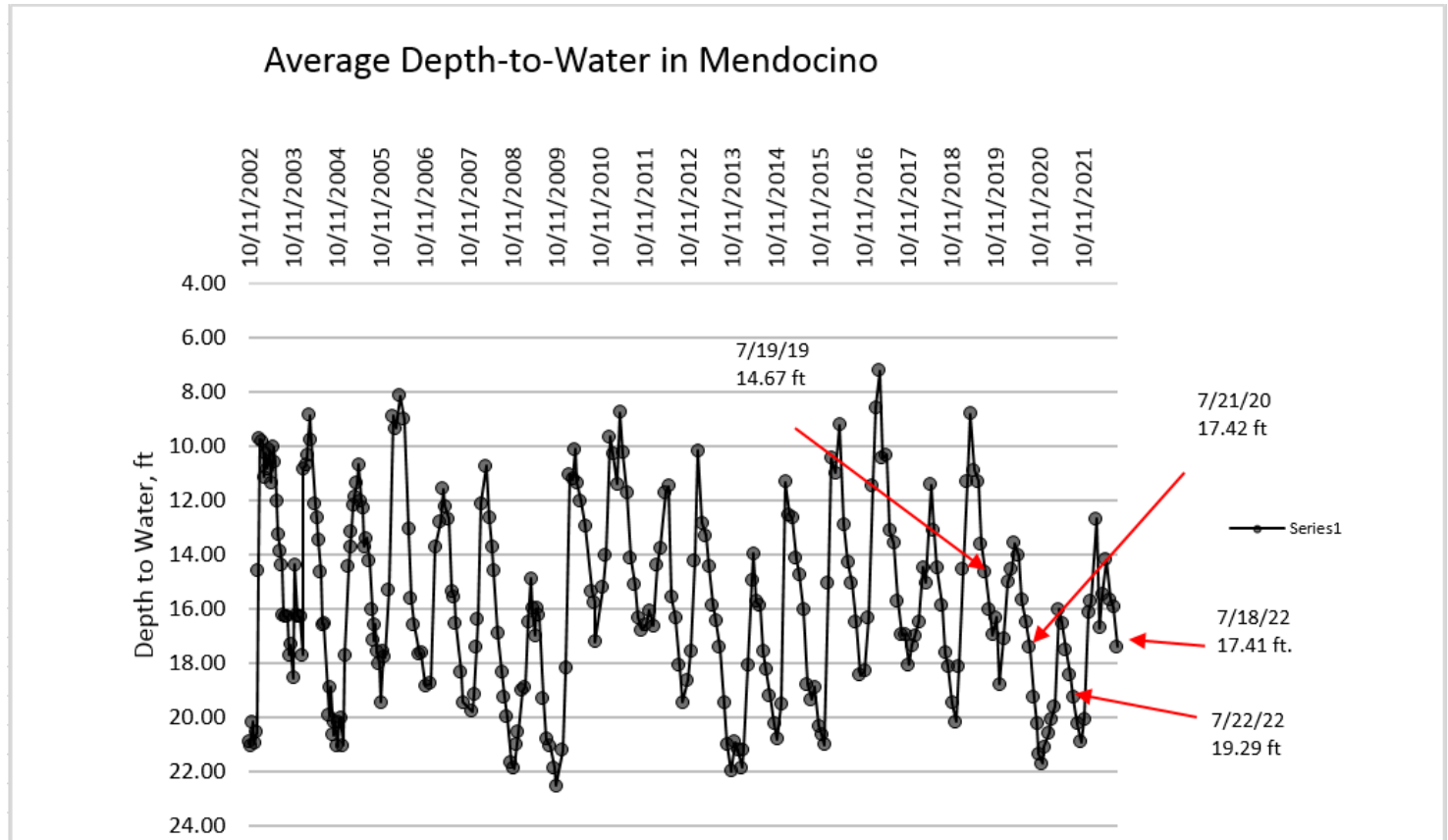
	DAILY TOTAL RAINFALL											
	2021-22											<i>Elevation 72 Feet</i>
												<i>Latitude 39.306°</i>
	Data From : Community Service District											<i>Longitude -123.800°</i>
	10AM											
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1		0.49										
2				0.24								
3		0.40		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		
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		
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									
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	0.00	0.00
Count	12	6	16	6	1	7	12	7	2	9	0	0
Max	4.05	1.21	1.51	0.45	0.29	0.59	1.63	0.30	1.34	0.09	0.00	0.00
Rainy Days		78					Water year Total Rainfall					30.16
Maximum Daily Rainfall				4.05								

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 July 22, 2022, total rainfall since October 1, 2021 was 30.16” inches, 76% of annual rainfall.

July 2022 Depth-to-Water (DTW)

The average DTW measurements District-wide in the 24 monitoring wells on July 18, 2022 was 17.41' ft. about 1.45 ft lower than last month, about 2 ft. better than July of 2021, and right on par with July of 2020. Compared to a good rain year like 2019, which received 45.64" inches, the average depth to water is currently about 3 ft below normal for the month.

Figure 2 July 2022, Depth-To-Water Chart



The average depth-to-water reported from the five drought monitoring wells on July 18, 2022 was 20.27 ft. about 0.9 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 another Water Shortage evaluation date, where depth to water will be the primary tool used to evaluate the water shortage condition. The Water Shortage Contingency Plan recommends maintaining the Stage 4 Water Shortage as this time. The Superintendent agrees with the plan and recommendation.