

Memo

To: MCCSD Board of Directors
From: District Superintendent
cc: Jim Jackson
Date: April 21, 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 April is 2.96" inches. 4.83" inches of rainfall has been measured in the District for the month as of April 22, (Figure 1, Table 1).

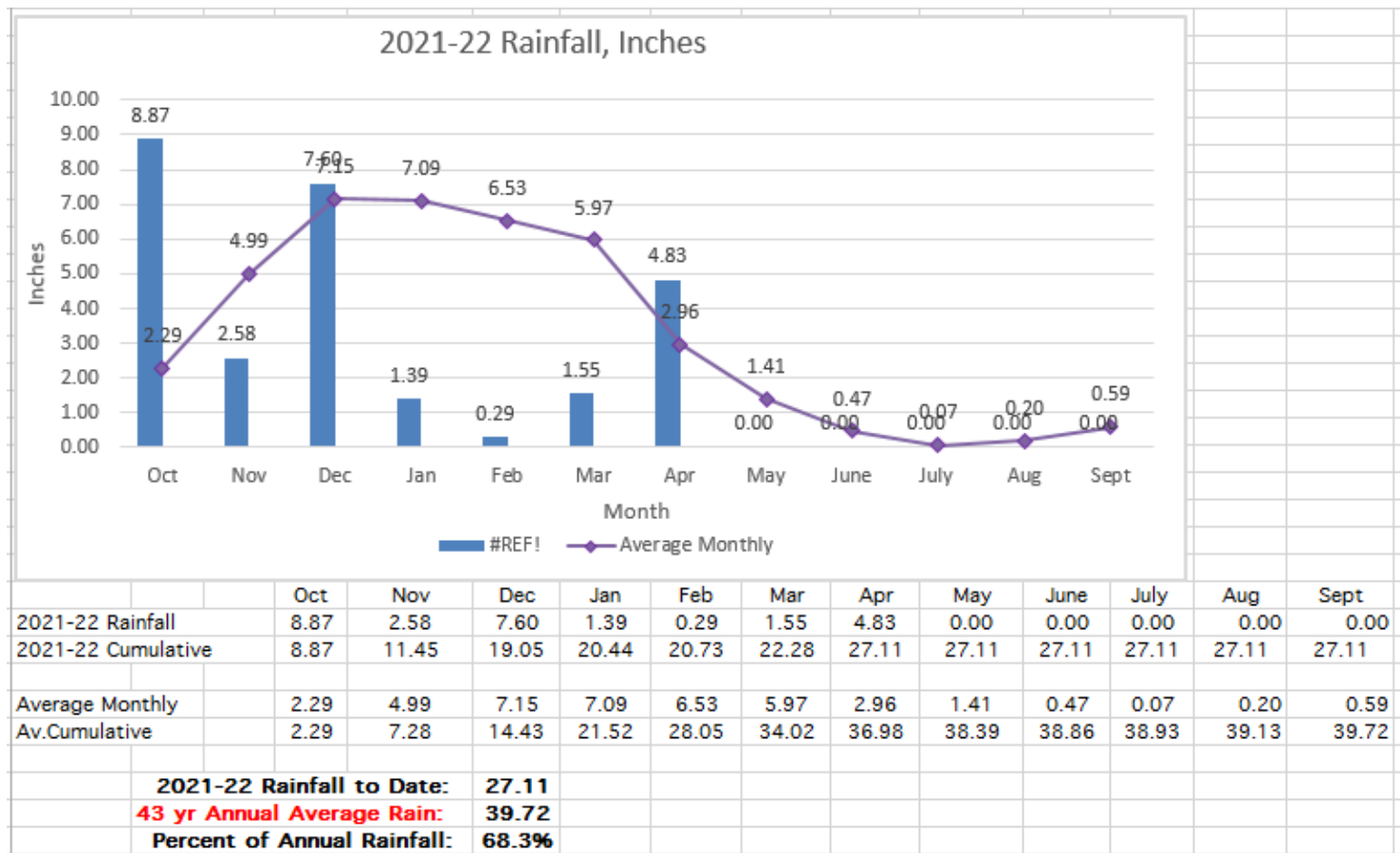


Figure 1, Table 1

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							10AM				<i>Longitude -123.800°</i>	
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
1		0.49											
2				0.24									
3		0.40		0.38									
4				0.24			0.1						
5	0.06	0.13		0.02		0.12							
6			0.17	0.45									
7			0.03										
8		1.21		0.06									
9													
10							0.75						
11			0.97				0.04						
12			0.52			0.02	0.01						
13			0.65				1.63						
14			0.08			0.59	0.02						
15		0.10	1.30				0.84						
16			0.24										
17	0.57												
18		0.25				0.35	0.27						
19	0.60					0.03	0.14						
20	0.03						0.71						
21	1.94		0.62		0.29		0.32						
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										
27						0.39							
28			0.27										
29	0.09		0.02										
30	0.24												
31	0.24												
Sum	8.87	2.58	7.60	1.39	0.29	1.55	4.83	0.00	0.00	0.00	0.00	0.00	
Count	12	6	16	6	1	7	11	0	0	0	0	0	
Max	4.05	1.21	1.51	0.45	0.29	0.59	1.63	0.00	0.00	0.00	0.00	0.00	
Rainy Days		59						Water year Total Rainfall					27.11
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 April 20, 2022, total rainfall since October 1, 2021 was 27.11” inches, 68% of annual rainfall.

April 2022 Depth-to-Water (DTW)

The average DTW measurements District-wide in the 24 monitoring wells on April 22, 2022 was 14.21 ft. almost a foot better than March of 2022. Similar to April of 2021, and about 2ft better than April of 2020.

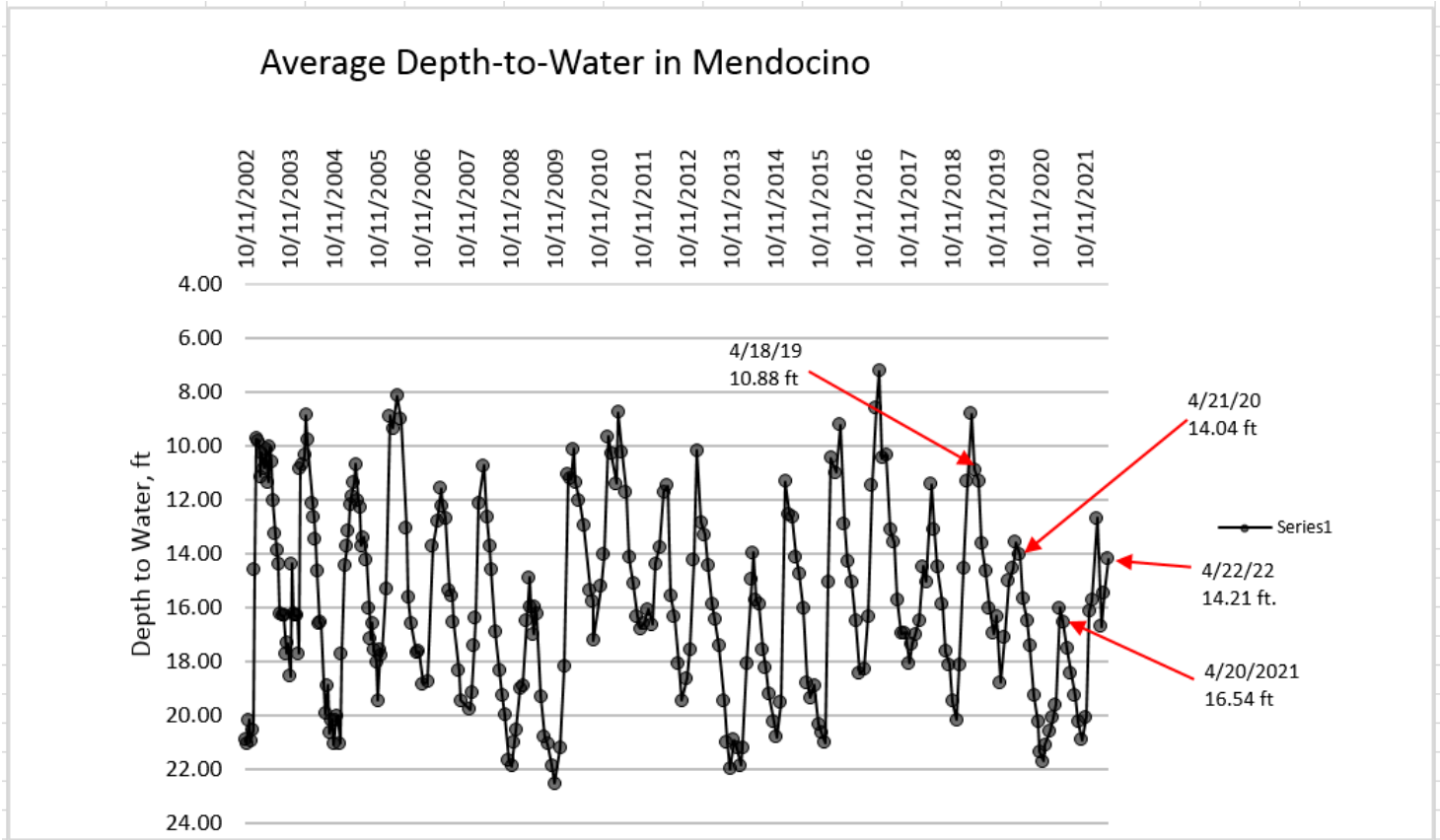


Figure 2 March 2022, Depth-To-Water Chart

The average depth-to-water reported from the five drought monitoring wells on April 22, 2022 was 18.61 ft. about ½ a foot worse than March of 2022.

The MCCSD Board declared a Stage 4 Water Shortage Emergency exists within its boundaries on March 28, 2022, based on total rainfall as of that time. May 31, represents another Water Shortage evaluation date. To consider moving down to Stage 3, we would need to see rainfall totals between 29-32.” The Superintendent recommends maintaining the Stage 4 Water Shortage at this time.