

Memo

To: MCCSD Board of Directors
From: District Superintendent
cc: Jim Jackson
Date: May 25, 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 May is 1.41” inches. 0.70” inches of rainfall has been measured in the District for the month as of May 25, (Figure 1, Table 1).

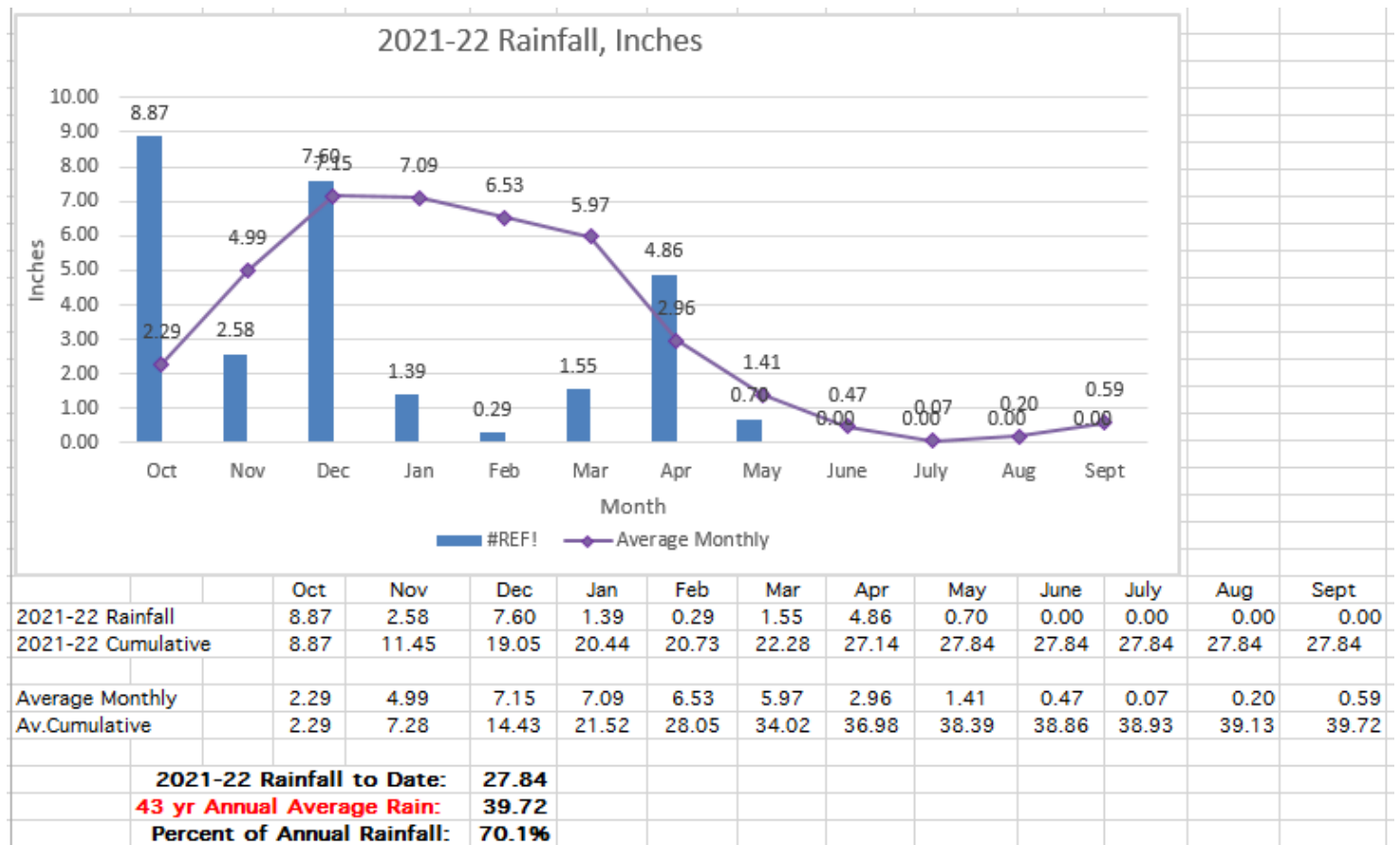


Figure 1, Table 1

Table 1 2021-22 Rainfall Record

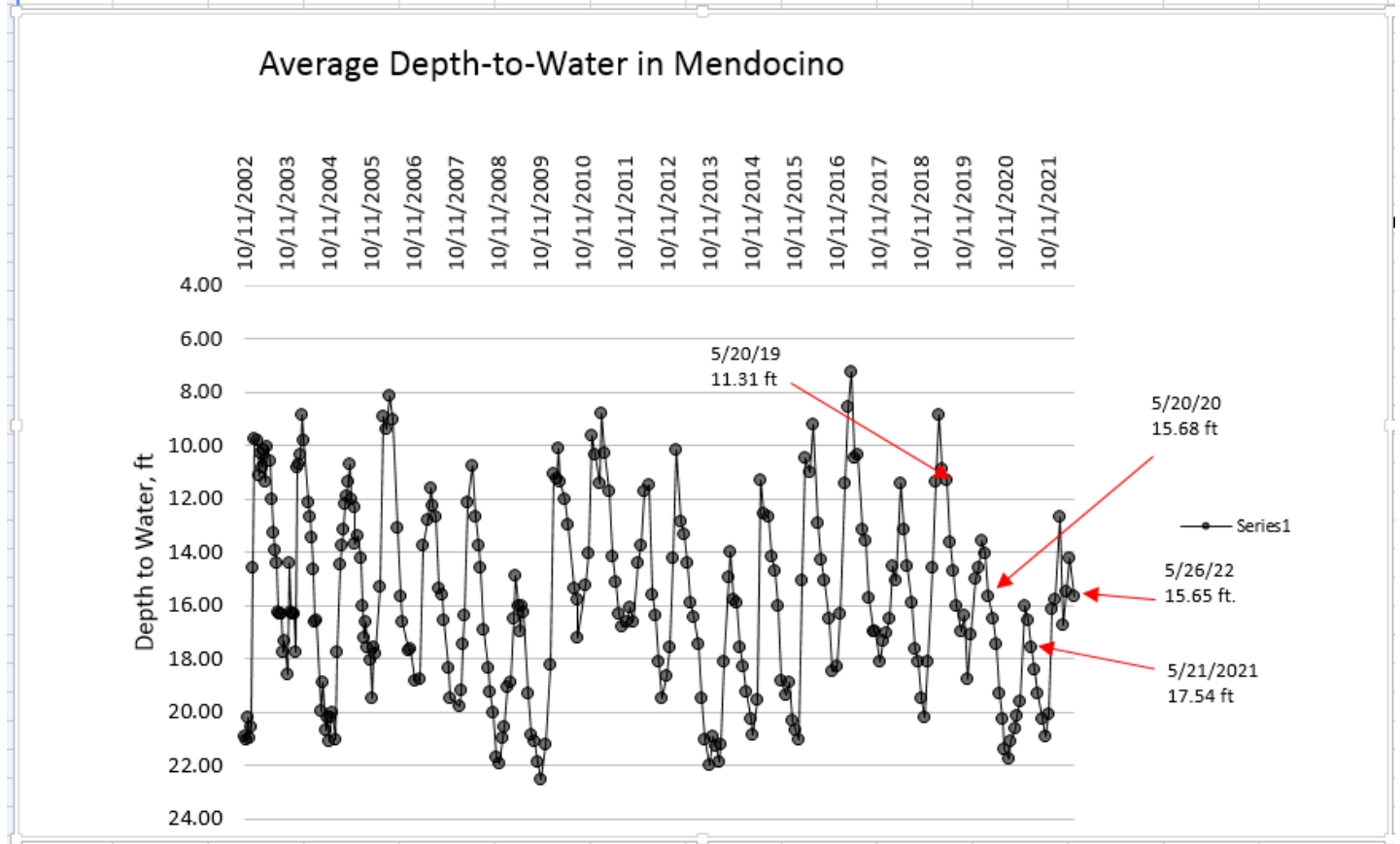
DAILY TOTAL RAINFALL												
2021-22												Elevation 72 Feet
												Latitude 39.306°
Data From : Commumnty Service District							10AM	Longitude -123.800°				
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1		0.49										
2				0.24								
3		0.40		0.38								
4				0.24			0.1					
5	0.06	0.13		0.02		0.12		0.13				
6			0.17	0.45				0.02				
7			0.03					0.23				
8		1.21		0.06				0.3				
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	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						0.03					
31	0.24											
Sum	8.87	2.58	7.60	1.39	0.29	1.55	4.86	0.70	0.00	0.00	0.00	0.00
Count	12	6	16	6	1	7	12	5	0	0	0	0
Max	4.05	1.21	1.51	0.45	0.29	0.59	1.63	0.30	0.00	0.00	0.00	0.00
Rainy Days		65										27.84
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 May 25, 2022, total rainfall since October 1, 2021 was 27.84” inches, 70% of annual rainfall.

May 2022 Depth-to-Water (DTW)

The average DTW measurements District-wide in the 24 monitoring wells on May 26, 2022 was 15.65 ft. about 1.4 ft worse than April of 2022. Very similar to May of 2020, and about 2ft better than May of 2021.

Figure 2 March 2022, Depth-To-Water Chart



The average depth-to-water reported from the five drought monitoring wells on May 26, 2022 was 19.54 ft about one a foot worse than April of 2022.

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. May 31, represents another Water Shortage evaluation date. According to the Water Shortage Contingency Plan, rainfall totals to date recommend maintaining the State 4 Water Shortage. The Superintendent agrees with the plan and recommends maintaining the Stage 4 Water Shortage at this time.