

## Memo

**To:** MCCSD Board of Directors  
**From:** District Superintendent  
**cc:** Jim Jackson  
**Date:** February 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 February is 6.53” inches. Just 0.29” inches of rainfall has been measured in the District for the month as of February 25, (Figure 1, Table 1).

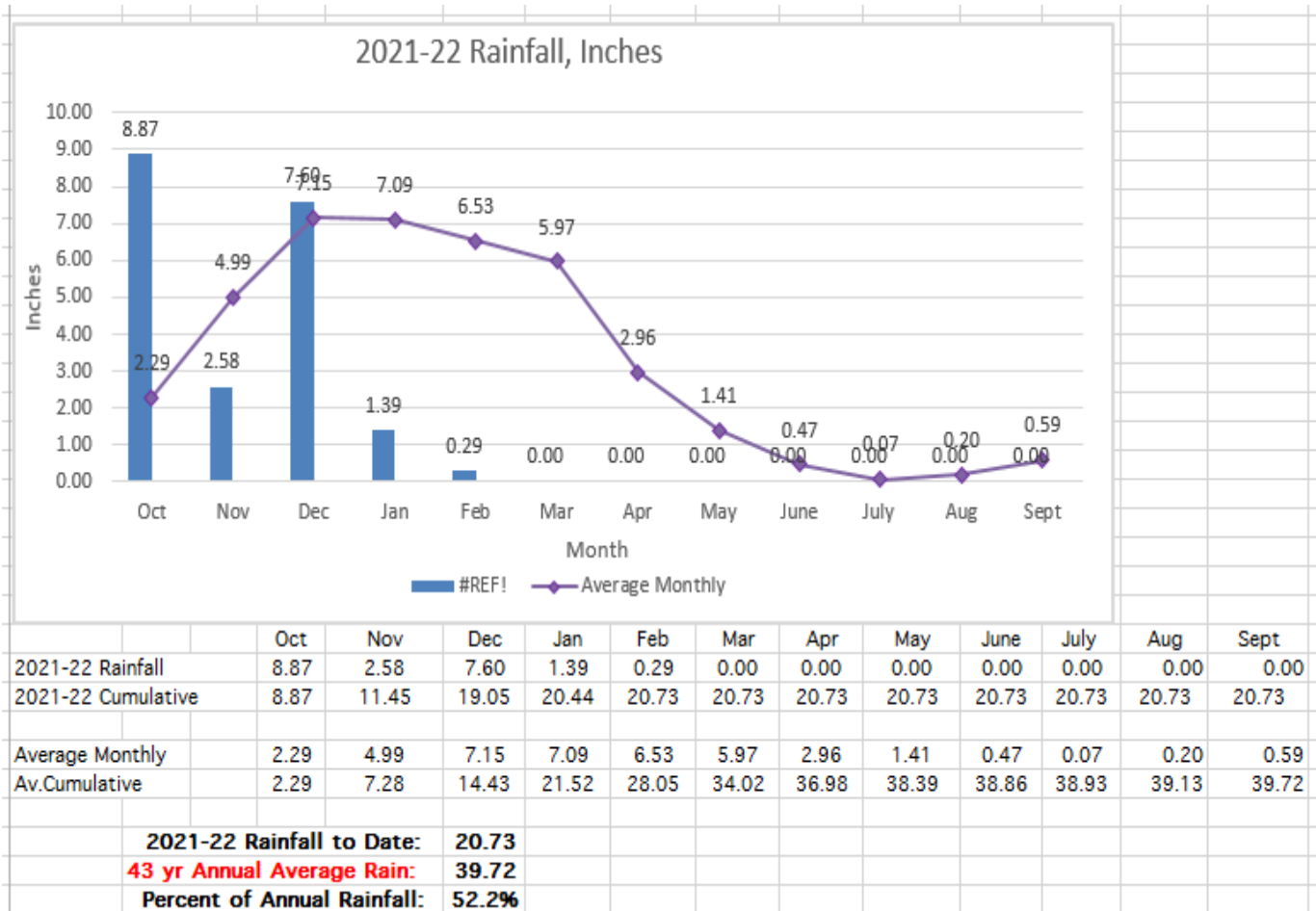


Figure 1, Table 1

Table 1                      2021-22    Rainfall    Record

<b>DAILY TOTAL RAINFALL</b>												
2021-22											<i>Elevation 72 Feet</i>	
											<i>Latitude 39.306°</i>	
Data From : Community Service District											<i>Longitude -123.600°</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								
5	0.06	0.13		0.02								
6			0.17	0.45								
7			0.03									
8		1.21		0.06								
9												
10												
11			0.97									
12			0.52									
13			0.65									
14			0.08									
15		0.10	1.30									
16			0.24									
17	0.57											
18		0.25										
19	0.60											
20	0.03											
21	1.94		0.62		0.29							
22	0.31		1.51									
23	4.05		0.09									
24	0.48		0.44									
25			0.06									
26	0.26		0.63									
27												
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Count	12	6	16	6	1	0	0	0	0	0	0	0
Max	4.05	1.21	1.51	0.45	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rainy Days		41										20.73
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 February 25, 2022, total rainfall since October 1, 2021 was 20.73” inches, 52.2% of annual rainfall, and 4.4% of normal rainfall for February.

February 2022 Depth-to-Water (DTW)

The average DTW measurements District-wide in the 24 monitoring wells on February 25, 2022 was 16.71 ft. (figure 2) about 4ft worse than January of 2022. But nearly 3ft better than February of 2021.

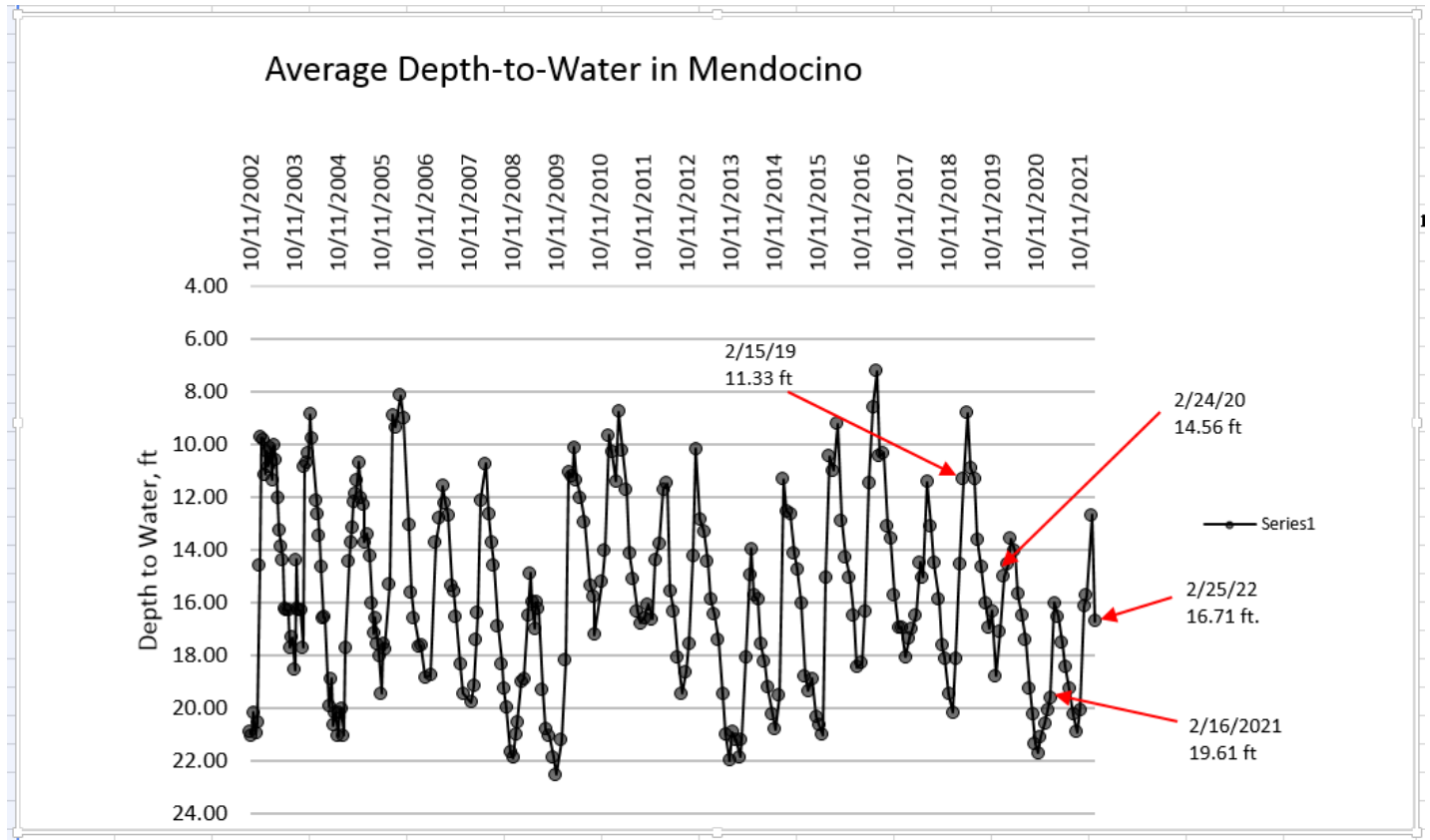


Figure 2 January 2022, Depth-To-Water Chart

The average depth-to-water reported from the five drought monitoring wells on February 25, 2022 was 17 ft., on January 26, 2022 it was 15.7 ft.

March 31, represents another Water Shortage evaluation date. Rainfall this year has been difficult to predict. Average depth to water measurements over the 24 monitoring wells are starting to decline. Rainfall is the primary tool used in the winter months to evaluate the severity of a pending water shortage.

NOAA and NIDIS National Integrated Drought Information System moved Mendocino from D2 Severe Drought into D3 Extreme drought on February 24, 2022.

The Superintendent advises maintaining the Stage 2 Water Shortage at this time, continue to follow the Water Shortage Contingency Plan, and evaluate rainfall total on March 31, 2022. If there is no significant rain between now and then I would advise preparing for another Stage 3 or 4 Water Shortage event.