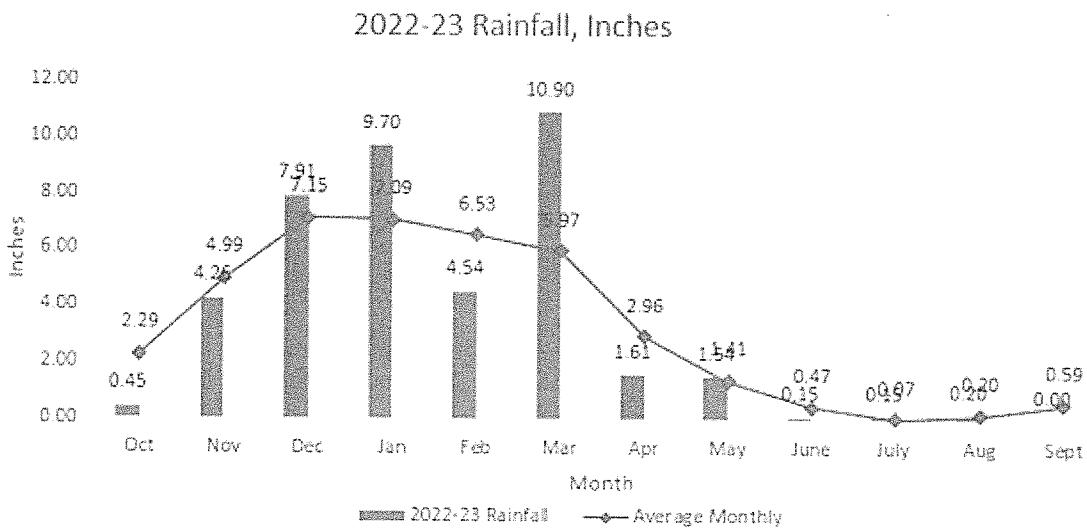


Memo

To: MCCSD Board of Directors
From: District Superintendent
cc: Jim Jackson
Date: Aug 22, 2023
Re: Groundwater Management Report

The 2022-23 Rain Year

October 1, 2022 was the beginning of the 2022-23 rain year. Average annual precipitation in Mendocino is 39.72 inches, and average rainfall in August is 0.20" inches. 0.20" inches of rainfall has been measured in the District for the month, as of August 22, 2023 (Figure 1, Table 1).



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
2022-23 Rainfall	0.45	4.26	7.91	9.70	4.54	10.90	1.61	1.54	0.15	0.15	0.20	0.00
2022-23 Cumulative	0.45	4.71	12.62	22.32	26.86	37.76	39.37	40.91	41.06	41.21	41.41	41.41
Average Monthly	2.29	4.99	7.15	7.09	6.53	5.97	2.96	1.41	0.47	0.07	0.20	0.59
Av.Cumulative	2.29	7.28	14.43	21.52	28.05	34.02	36.98	38.39	38.86	38.93	39.13	39.72

2022-23 Rainfall to Date: 41.41
43 yr Annual Average Rain: 39.72

Figure 1, Table 1

Total Rainfall for Rain Year 2021-22 was 33.82” inches. Mendocino received 85% of normal annual rainfall during the last water year. By August 22, 2023, total rainfall since October 1, 2022 was 41.41” inches, 104% of average annual rainfall.

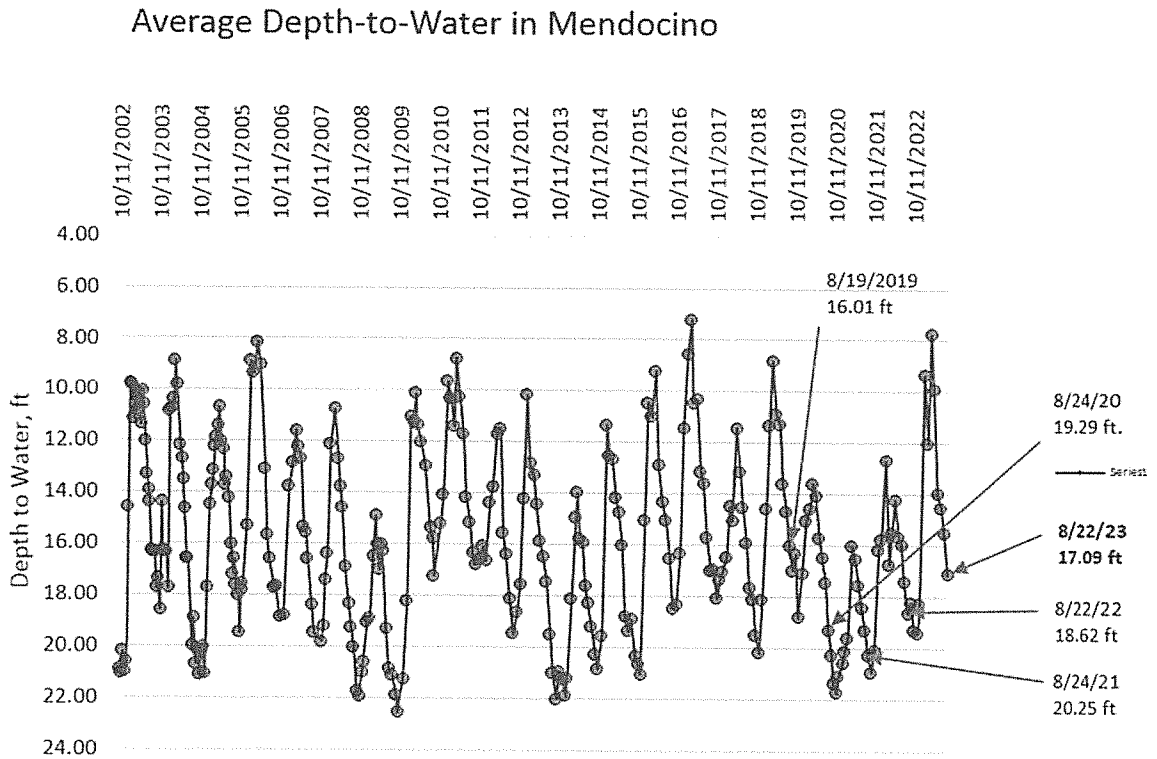
DAILY TOTAL RAINFALL													
2022-23										<i>Elevation 72 Feet</i>			
										<i>Latitude 39.306°</i>			
Data From : Community Service District										<i>Longitude 123.600°</i>			
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
1		0.05	0.03	0.04		0.01	0.04	0.2			0.01		
2				0.32	0.86	0.03	0.06	0.09		0.01			
3		0.02	0.19	0.32		0.47		0.06					
4	0.02	0.68	0.30	1.54	0.81	0.41		0.02		0.02			
5	0.01	0.07	0.31	0.24	0.02	0.5		0.33	0.01	0.02			
6	0.01	0.53	0.10	1.04	.01	0.2	0.79			0.01	0.01		
7		0.83	0.02	1.90		0.79	0.04	0.4	0.01				
8		0.13	0.19	0.45	0.01	0.07		0.39	0.05		0.01		
9			1.49	0.38	0.03	1.18	0.01	0.02		0.02	0.01		
10	0.03	0.01	0.71	0.14	0.35	0.05	0.2						
11	0.02	0.11	0.24	0.71		0.35			0.02				
12	0.02	0.03	0.02	1.28		0.46			0.01				
13	0.02	0.04	0.02	0.66		1.97				0.02	0.01		
14			0.01	0.17	0.15	1.18							
15		0.02	0.01	0.02		0.02		0.01	0.01			0.01	
16	0.01					0.01		0.01				0.01	
17	0.01					0.01		0.01				0.03	
18	0.02		0.03	0.47		0.37	0.32			0.01	0.01		
19			0.01	0.01		0.15	0.02			0.01	0.02		
20			0.01			0.35			0.02	0.01	0.01		
21	0.05		0.24		0.30	0.22						0.06	
22			0.09		0.24		0.04		0.02				
23			0.02		0.47		0.02			0.01			
24	0.02									0.01			
25					0.03								
26			1.53	0.01	0.68								
27		0.04	0.15		0.34	1.22							
28			0.16		0.25	0.52	0.01						
29			1.73			0.09	0.06						
30		1.70	0.30			0.03							
31	0.21					0.24							
Sum	0.45	4.26	7.91	9.70	4.54	10.90	1.61	1.54	0.15	0.15	0.20	0.00	
Count	13	14	25	18	14	26	12	11	8	11	12	0	
Max	0.21	1.70	1.73	1.90	0.86	1.97	0.79	0.40	0.05	0.02	0.06	0.00	
Rainy Days		164											
Maximum Daily Rainfall				1.97								41.41	
							Water year Total Rainfall						

Table 1 2022-23 Rainfall Record

August 2023 Depth-to-Water (DTW)

The average DTW measurements District-wide in the 24 monitoring wells on August 22, 2023 was 17.09' ft.. DTW averages are about 1.5 ft. lower than July of 2023, about 1.5 ft. better than August of 2022, and about 3.15 ft. better than August of 2021. Compared to an above average rain year like 2019, which received 45.64" inches, or 115% of average annual rainfall, the average depth to water in August is currently about 2 ft. below that of 2019.

Figure 2 August 2023, Depth-To-Water Chart



Following the Water Shortage Contingency Plan. The MCCSD Board declared on April 19, 2023 that no water shortage exists within the MCCSD boundaries. According to the Water Shortage Contingency Plan, (p. 14) "Calendar for Declaring Water Shortage,...If a water shortage is not declared by the end of May, no further evaluation is required until the following January 31." MCCSD staff will continue to monitor and follow the plan while the Superintendent recommends continued caution and conservation.