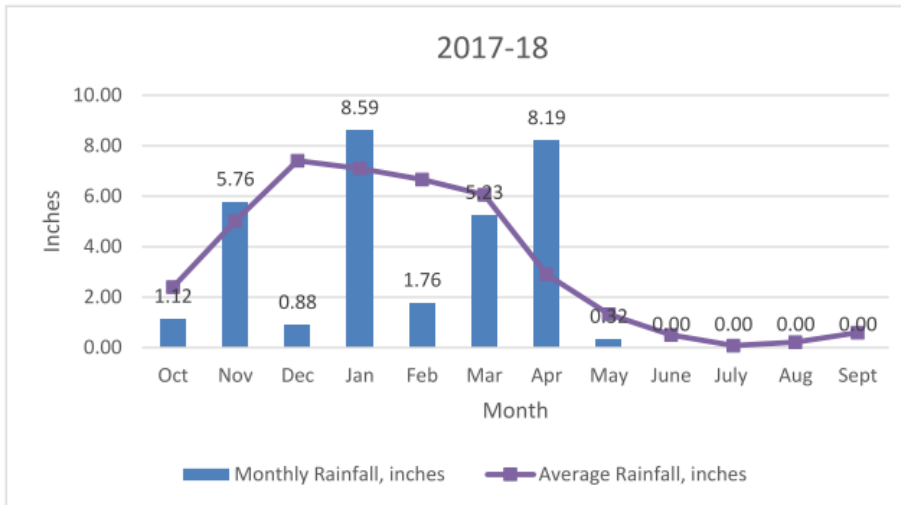


Memo

To: MCCSD Board of Directors
From: District Superintendent
cc: Jim Jackson
Date: July 18, 2018
Re: July 2018 Groundwater Management Report

The 2017-18 Rain Year

October 1, 2017 was the beginning of the 2017-18 rain year. Average precipitation in May is 1.32 inches, and no measurable rain in June. The District measured 31.85 inches of rainfall during this rain year. The cumulative average rainfall at the end of July is normally 39.42 inches. This is 79.2% of average annual rainfall (Tab1-2).



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
2017-18 Rainfall	1.12	5.76	0.88	8.59	1.76	5.23	8.19	0.32	0.00	0.00	0.00	0.00
2017-18 Cumulative	1.12	6.88	7.76	16.35	18.11	23.34	31.53	31.85	31.85	31.85		
Average Monthly	2.40	5.01	7.41	7.10	6.66	6.05	2.90	1.32	0.50	0.08	0.21	0.59
Av.Cumulative	2.40	7.41	14.82	21.91	28.57	34.63	37.52	38.84	39.35	39.42	39.63	40.23

2017-18 Rainfall to Date: 31.85
29 yr Annual Average Rain: 40.23
Percent of Annual Rainfall: 79.2%

Table 1

DAILY TOTAL RAINFALL												
2017-18										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												
2		0.26	0.38			0.32						
3						0.51						
4				0.61		0.12						
5		0.35					3.83					
6							2.51					
7				0.57		0.18						
8		0.68		1.82		0.04						
9		0.54		0.03								
10												
11					0.12		0.62					
12		0.13				0.82						
13						0.23						
14		0.19				0.26						
15		0.62		0.62		0.97	0.56	0.11				
16							0.31					
17				0.59	0.06							
18				0.35	0.20							
19	1.06	0.72	0.47									
20		0.54				0.42						
21	0.06			2.04		0.38						
22					0.13	0.06						
23		0.13				0.63						
24				1.57		0.29		0.11				
25		0.97	0.03	0.39	0.21			0.1				
26		0.63										
27							0.11					
28					1.04							
29							0.25					
30												
31												
Sum	1.12	5.76	0.88	8.59	1.76	5.23	8.19	0.32	0.00	0.00	0.00	0.00
Count	2	12	3	10	6	14	7	3	0	0	0	0
Max	1.06	0.97	0.47	2.04	1.04	0.97	3.83	0.11	0.00	0.00	0.00	0.00
Rainy Days	57								Water year Total Rainfall			31.85
Maximum Daily Rainfall				3.83								

Table 2 2017-18 Rainfall Record

2017-18 Rainfall Evaluations

The District was in a No Water Shortage Condition from January 26, 2016 to May 29, 2018. The Superintendent's recommended that the Board declare a Stage 1 Water Shortage at the May 29th meeting. The District declared a Stage 1 Water Shortage. A Stage 1 Water Shortage is a mild drought.

Stage 1 Water Use Restriction

District property owners are requested to voluntarily reduce groundwater extraction (Table 3). Water use restrictions include a voluntary 10% reduction in allotments, prohibition on hose washing of hard exterior surfaces without the use of a shut-off nozzle, uncorrected plumbing leaks, and watering landscaping in a manner that allows runoff. Restaurants are asked to put out water conservation information cards, which are available at the District office. Hosing exterior surfaces is allowed during a Stage 1 Water Shortage, and is only prohibited during a Stage 3 or 4 Water Shortage.

Water Shortage Stage/ Condition	Customer Responsibilities	Water District Activities	Penalties
<p>1. Conservation Alert:</p> <p>Mild shortage. (22.5-25% below normal rainfall) Frequent condition after March 1 due to lack of inter-annual (carryover) storage.</p>	<ul style="list-style-type: none"> ➤ Voluntary water conservation ➤ Prohibition of water waste (hose washing driveways, parking area, walkways or other paved surface, except as is required for sanitary purposes) ➤ Display of conservation information by hotels and restaurants 	<ul style="list-style-type: none"> ➤ Ongoing public information campaign, media outreach ➤ Request voluntary water conservation with 10% use reduction 	<ul style="list-style-type: none"> ➤ Warning letter on need for water conservation ➤ Possible penalties on blatant water wastage after first warning

Table 3 Stage 1 Water Shortage Water Use Restrictions

Depth-To-Water (DTW)

The DTW measurements in the District’s 24 monitoring wells on July 23, 2018 was 15.88 ft. (Figure 1).

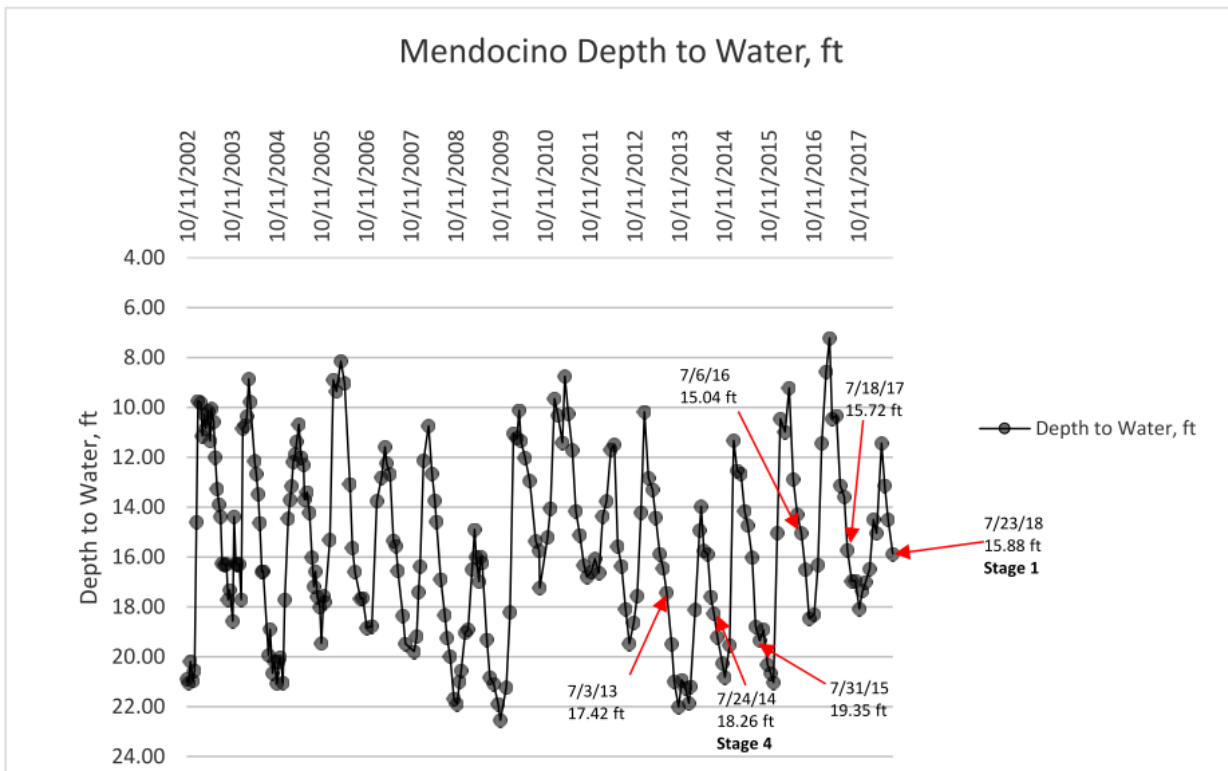


Figure 1 July 2018 DTW Chart