



West Texas Weather Modification Association

Monthly Operations Report

June 2018 Operations Report

The month of June contained 5 days of operations.

Date	Flares	Counties seeded
02	22+2H	Schleicher, Crockett
03	14+1H	Sutton
17	39+1H	Tom Green, Irion
18	24	Sterling, Crockett
23	5	Sterling
TOTAL	104+4H	

June 2018 was an interesting month for much of the target area. Seeding was conducted on both the 2nd and 3rd of the month across portions of the southern target area. Then, a large system threatened the area mid-month but stalled before entering the area. This system provided a lot of hope for much needed heavy rainfall but failed to produce. Showers and storms did develop on the 17th and 18th in parts of the target area which were seeded mainly in Tom Green, Irion and Sterling counties. One more flight took place on the 23rd where one cell was seeded in Sterling county on the 23rd, but this storm proved too much to handle as outflow off the storm was too turbulent to work. This was the cell that tracked southeast into northern Tom Green County that resulted in 80+mph wind gusts across the area. Dry conditions continued to end the month but long-term forecast into July were looking favorable as a series of easterly shortwaves were expected to impact the area.

Monthly rainfall in San Angelo was well below average. Only 0.56" were recorded during the month which is 2.03" below average. This does increase the annual total to 9.29" but is now below average for the year by 1.32". Meanwhile, temperatures in San Angelo were very warm. The average temperature for the month was the second warmest on record at 87.1°F, trailing only 2011. Through the months of May and June, 19 days of 100°F weather has already been recorded. However, this is below the pace of 2011 when 100 days of 100°F weather was recorded. Abilene was also below average but did record 2.97" of rainfall. The total for the year is now up to 9.08" which is 3.42 below the average of 12.50". It was also warm in Abilene with monthly temperature 4.4°F above average. Midland was the only station to record above average rainfall, with 2.56" being recorded. However, despite being 0.76" above average, the annual total still sits 2.66" below average with a total of only 3.40" for the year.



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Monthly rain gauge measurements from nearest locations inside and out of the target area recorded either by the National Weather Service, Texas Tech University, Mesowest as well as CoCoRaHS.

June 2018 (Normal's of 1.80" from Midland to 2.59 in San Angelo)

Crockett County		Reagan County		Tom Green	
Ozona 32SW	0.37	Big Lake (TTU)	0.85	Wall	1.08
Ozona 20.9SSW	0.30	Big Lake (NWS)	0.87	San Angelo 7NW	2.07
Ozona 19.6S	0.23	Cope Ranch	-	Knickerbocker	0.25
Ozona 15SSW	0.36	Sterling County		Carlsbad	1.20
Ozona Airport	0.60	Sterling City (MES)	1.13	Miles 6.5SSE	2.43
Irion County		Sterling City (TTU)	3.38	San Angelo (NWS)	0.56
Mertzon (TTU)	0.03	Sterling City 0.7NW	0.85	Out of Target Area	
Mertzon (S)	0	Sutton County		Junction (Kimble)	1.35
Barnhart	0.65	Sonora Average	0	Midland (Midland)	2.56
Schleicher County		Sonora Airport	0	Abilene (Taylor)	2.97
Eldorado 0.2	0.09	AREA AVERAGE		St. Lawrence (Glasscock)	0.82
Eldorado 22.6ENE	1.11	0.82		Lees (Glasscock)	-

Year to Date (Normal's of 6.06" from Midland to 10.67" in San Angelo)

Crockett County		Reagan County		Tom Green	
Ozona 32SW	5.22	Big Lake (TTU)	2.85	Wall	8.01
Ozona 20.9SSW	5.65	Big Lake (NWS)	2.92	San Angelo 7NW	9.45
Ozona 19.6S	8.49	Cope Ranch	-	Knickerbocker	6.61
Ozona 15SSW	5.17	Sterling County		Carlsbad	7.33
Ozona Airport	2.94	Sterling City (MES)	5.21	Miles 6.5SSE	8.14
Irion County		Sterling City (TTU)	7.13	San Angelo (NWS)	9.45
Mertzon (TTU)	4.81	Sterling City 0.7NW	5.13	Out of Target Area	
Mertzon (S)	4.04	Sutton County		Junction (Kimble)	6.53
Barnhart	3.28	Sonora Average	6.04	Midland (Midland)	3.40
Schleicher County		Sonora Airport	6.61	Abilene (Taylor)	9.08
Eldorado 0.2	4.80	AREA AVERAGE		St. Lawrence (Glasscock)	2.78
Eldorado 22.6ENE	5.34	5.58		Lees (Glasscock)	-