

June 2017 Operations Report

The month of June contained 7 days of operations.

Date	Flares	Counties seeded
2	8	Sterling
3	26+1H	Irion, Crockett, Reagan
8	32+2H	Tom Green, Schleicher, Irion
19	44+2H	Sterling, Crockett, Reagan
23	42+3H	Sterling, Irion, Schleicher
26	24+2H	Irion, Sterling
27	N/A	Sutton
TOTAL	176+10H	

The month of June 2017, finally felt like the weather modification season was started. On the 2nd, a large storm developed in Sterling County dropping over an inch of rainfall across the area. This cell was very hard to seed, but more convection was seeded south of the main storm where isolated pop up convection took place. Conditions were a bit better on the 3rd resulting in seeding in Irion, Crockett and Reagan Counties. As the month went on, conditions for seeding increased with two of our busier days so far taking place on the 8th and the 19th. On the 19th, a stationary boundary developed across the region which developed showers and storms across the area. Widespread seeding took place across Sterling, Irion and Schleicher Counties. However, the main story is on the 23rd when a cold front slid south into the area. Storms were seeded in Sterling, Irion and Schleicher Counties before being forced to recover as storms became strongly outflow dominate. Storms produced severe winds across a large part of the eastern half of the target area with max winds recorded in Sterling City at 77 mph and San Angelo at 78 mph. Widespread damage took place from Sterling City south towards Eldorado, and especially within San Angelo. The month closed off on the 26th and 27th with marginal convection across Irion, Sterling, and Sutton Counties. Both operational and experimental seeding took place across the target area.

Monthly rainfall totals averaged out across the target area at 2.02". This is the highest monthly average so far this year and the second consecutive month in which the highest rainfall total of the year was recorded. Areas across the central and northern target area did well with Sterling County recording over 4" of rainfall as 2 of their 3 rain gauges. Unfortunately, the Texas Tech mesonet site went down during the severe thunderstorm that took place on the 23rd. Additionally, areas in Irion County saw totals of near 2" upwards to near 4" across the county. Other areas were mainly near average with a few rain gauges in Tom Green County getting 2-3" as well. Unfortunately, Sutton County did not fair to well with only a county wide average of 0.22".

Month to date, two of the three major reporting stations were below average for rainfall. San Angelo only recorded 1.52" of its average of 2.59". Abilene only received 1.67" of the average of 3.56". Midland, however, had a good month and is doing very well for the year. The total of 3.05" for the month was 1.25" above average. This takes Midland's total for 2017 to 8.74", 2.68" above average. Meanwhile, both San Angelo (-2.61") and Abilene (-2.96") continue to see the deficit rise. As far as temperatures go, San Angelo and Midland were well above average with San Angelo at 83.5°F (+3°) and Midland at 84°F (+3.7°). Abilene, though above average, was only 0.2°F off of their average.

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 2017 (Normal's of 1.80" from Midland to 2.59" in San Angelo)

Crockett County		Reagan County		Tom Green	
Ozona 32SW	1.43	Big Lake (TTU)	1.28	Wall	3.33
Ozona 20.9SSW	1.53	Big Lake (NWS)	N/A	San Angelo 7NW	2.54
Ozona 19.6S	1.33	Cope Ranch	1.79	Knickerbocker	3.53
Ozona 15SSW	1.61	Sterling County		Carlsbad	2.57
Ozona Airport	1.33	Sterling City (MES)	4.83	Miles 6.5SSE	0.60
Irion County		Sterling City (TTU)	1.95	San Angelo (NWS)	1.52
Mertzon (TTU)	3.83	Sterling City 0.7NW	4.38	Out of Target Area	
Mertzon (S)	1.73	Sutton County		Junction (Kimble)	2.21
Barnhart	1.94	Sonora Average	0.22	Midland (Midland)	3.05
Schleicher County		Sonora Airport	0.21	Abilene (Taylor)	1.67
Eldorado 0.2	1.08	AREA AVERAGE		St. Lawrence (Glasscock)	1.20
Eldorado 22.6ENE	2.03	2.02		Lees (Glasscock)	3.06

Year to Date (Normal's of 6.06" from Midland to 10.61" in San Angelo)

Crockett County		Reagan County		Tom Green	
Ozona 32SW	9.47	Big Lake (TTU)	11.15	Wall	11.08
Ozona 20.9SSW	11.08	Big Lake (NWS)	7.68*	San Angelo 7NW	9.47
Ozona 19.6S	9.87	Cope Ranch	10.72	Knickerbocker	3.53
Ozona 15SSW	9.43	Sterling County		Carlsbad	10.33
Ozona Airport	4.80	Sterling City (MES)	12.85	Miles 6.5SSE	8.48
Irion County		Sterling City (TTU)	10.18	San Angelo (NWS)	8
Mertzon (TTU)	11.15	Sterling City 0.7NW	11.75	Out of Target Area	
Mertzon (S)	10.09	Sutton County		Junction (Kimble)	8.82
Barnhart	8.69	Sonora Average	8.79	Midland (Midland)	8.86
Schleicher County		Sonora Airport	7.69	Abilene (Taylor)	9.54
Eldorado 0.2	8.68	AREA AVERAGE		St. Lawrence (Glasscock)	8.51
Eldorado 22.6ENE	10.24	9.65		Lees (Glasscock)	11.17