

August 2017 Operations Report

The month of August contained 5 days of operations.

Date	Flares	Counties seeded
4	18+3H	Sterling, Reagan
6	72+1H	Sterling, Reagan, Irion, Schleicher, Crockett, Sutton
7	42+2H	Tom Green, Sterling, Reagan, Irion
12	49+2H	Sterling, Tom Green, Irion, Crockett, Reagan
13	48+2H	Sutton, Schleicher
TOTAL	229+10H	

August took over where July left off, very active. Operations took place on the 4th, 6th and 7th across a majority of the target area as an upper level low hung around the area with very sufficient surface moisture. Storms were seeded aggressively each day but some issues that took place were very low cloud bases and rain filled bases. Still, during this rush, storms seeded seemed to respond very well. By the 8th, a bit of break occurred but seeding again took place on the 12th and 13th under similar conditions. At this point, it was proving to be a very cool and wet month across the region. We did have a few recon flights later in the month but an upper level ridge began to build over the area limiting the amount of convection taking place. Therefore no additional seeding took place through the 24th. At this time, Hurricane Harvey was having a large impact on the Texas Coast. A few bands of showers/storms did move into the target area on the 24th, 25th and 26th. However, these showers/storms were simply too low to work with bases below 3,000 feet. Additionally, tropical moisture over the area proved that these storms were very efficient and likely did not need any seeding. Once the storm cleared Texas, a strong upper ridge developed and dominated through the end of the month.

August proved to be a rather wet month with all three major reporting stations recording above average rainfall. Midland received 2.52" with Abilene at 3.86". These totals are 0.68" and 1.27" above their averages, respectively. San Angelo did record above average rainfall, but only exceeded the average by 0.15". Still, the total rainfall of 0.15" was welcome. All three stations also recorded below average temperatures in what was a cooler than usual August.

Year-to-date rainfall remains below average for both San Angelo and Abilene. San Angelo has only totaled 12.10" this year which is below average by 1.97". Abilene is now sitting at 14.45" which is below their average of 16.96". Meanwhile, further west in Midland, rainfall is less than Abilene but has so far exceeded totals in San Angelo. Midland is now at 12.74" this year which is 3.02" above normal. Midland has benefited from active dryline activity earlier this month resulting in a few isolated storms that impacted the area.

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.

August 2017 (Normal's of 1.84" from Midland to 2.26" in San Angelo)

Crockett County		Reagan County		Tom Green	
Ozona 32SW	2.39	Big Lake (TTU)	3.41	Wall	3.50
Ozona 20.9SSW	1.76	Big Lake (NWS)	4.05	San Angelo 7NW	3.41
Ozona 19.6S	0.41	Cope Ranch	3.09	Knickerbocker	2.17
Ozona 15SSW	2.30	Sterling County		Carlsbad	0.59
Ozona Airport	4.02	Sterling City (MES)	4.01	Miles 6.5SSE	1.37
Irion County		Sterling City (TTU)	2.94	San Angelo (NWS)	2.41
Mertzon (TTU)	5.67	Sterling City 0.7NW	4.76	Out of Target Area	
Mertzon (S)	3.43	Sutton County		Junction (Kimble)	3.01
Barnhart	5.53	Sonora Average	2.56	Midland (Midland)	2.52
Schleicher County		Sonora Airport	2.62	Abilene (Taylor)	3.86
Eldorado 0.2	2.76	AREA AVERAGE		St. Lawrence (Glasscock)	-
Eldorado 22.6ENE	3.72	3.04		Lees (Glasscock)	-

Year to Date (Normal's of 9.72" from Midland to 14.07" in San Angelo)

Crockett County		Reagan County		Tom Green	
Ozona 32SW	14.15	Big Lake (TTU)	15.26	Wall	18.02
Ozona 20.9SSW	15.58	Big Lake (NWS)	15.37	San Angelo 7NW	15.16
Ozona 19.6S	12.10	Cope Ranch	18.30	Knickerbocker	16.60
Ozona 15SSW	14.80	Sterling County		Carlsbad	11.91
Ozona Airport	10.53	Sterling City (MES)	19.55	Miles 6.5SSE	12.25
Irion County		Sterling City (TTU)	15.18	San Angelo (NWS)	12.10
Mertzon (TTU)	5.67	Sterling City 0.7NW	20.68	Out of Target Area	
Mertzon (S)	3.43	Sutton County		Junction (Kimble)	14.69
Barnhart	5.53	Sonora Average	16.47	Midland (Midland)	12.86
Schleicher County		Sonora Airport	15.58	Abilene (Taylor)	14.45
Eldorado 0.2	2.76	AREA AVERAGE		St. Lawrence (Glasscock)	10.06
Eldorado 22.6ENE	3.72	15.52		Lees (Glasscock)	12.04