

## May 2017 Operations Report

The month of May contained 1 day of operations.

Date	Flares	Counties seeded
19	8	Irion
<b>TOTAL</b>	<b>0</b>	

The spring months for the 2017 weather modification season across West Central Texas was rather disappointing. As we saw in April, much of the activity in May occurred during the overnight hours which ended up resulting in near average rainfall for much of the region. More isolated convection took place in areas which skewed the precipitation numbers a bit, mainly along the I-10 corridor. On May the 19<sup>th</sup>, a cold front moved through the area during the morning hours clearing the skies. This allowed for enough heating and with solid upper level support, a few storms developed behind the boundary. The first storm, in Sterling County, was too low to approach with bases below 3,000 feet. However, outflow off of this storm did pop up a few storms in Irion County and later Tom Green County. The first cell was seeded in Irion County before it began to dissipate as it was outflow dominate. Displaced from the surface feature, storms on this day simply did not have enough inflow resulting in only 8 flares fired.

Despite the inactivity of the weather modification program, rainfall was still falling in areas across the target area. As stated earlier, much of this took place during the overnight hours. Crockett County had as much as 3-4" in some places while areas in Sutton County were in the 2-3" range. Other areas receiving beneficial rainfall were Eldorado and some areas of Sterling County. The three major reporting stations were all below average with San Angelo (2.06, -0.76), Abilene (2.73, -0.45) and Midland (0.89, -0.85) hoping for better rain this summer. Abilene (7.87, -1.07) and San Angelo (6.48, -1.54) remain below normal for year while Midland (4.26, +1.43) continues to see benefits from a few isolated storms that hit the rain gauge. Temperatures were cooler in May by 2°F in Abilene and 1°F in San Angelo. Midland was within a quarter of a degree of average.

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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.

### May 2017 (Normal's of 1.74" from Midland to 2.82" in San Angelo)

Crockett County		Reagan County		Tom Green	
Ozona 32SW		Big Lake (TTU)	2.16	Wall	2.33
Ozona 20.9SSW	3.08	Big Lake (NWS)	N/A	San Angelo 7NW	1.26
Ozona 19.6S	1.92	Cope Ranch	2.45	Knickerbocker	1.87
Ozona 15SSW	2.36	Sterling County		Carlsbad	1.77
Ozona Airport	0.56	Sterling City (MES)	1.20	Miles 6.5SSE	1.55
Irion County		Sterling City (TTU)	1.59	San Angelo (NWS)	2.06
Mertzon (TTU)	1.51	Sterling City 0.7NW	1.20	Out of Target Area	
Mertzon (S)	1.38	Sutton County		Junction (Kimble)	1.99
Barnhart	1.56	Sonora Average	2.47	Midland (Midland)	0.98
Schleicher County		Sonora Airport	1.82	Abilene (Taylor)	2.73
Eldorado 0.2	2.50	AREA AVERAGE		St. Lawrence (Glasscock)	1.21
Eldorado 22.6ENE	3.58	1.92		Lees (Glasscock)	2.17

***Year to Date (Normal's of 4.26" from Midland to 8.02" in San Angelo)***

<b>Crockett County</b>		<b>Reagan County</b>		<b>Tom Green</b>	
Ozona 32SW		Big Lake (TTU)	7.46	Wall	7.75
Ozona 20.9SSW	9.55	Big Lake (NWS)	N/A	San Angelo 7NW	6.93
Ozona 19.6S	8.54	Cope Ranch	8.93	Knickerbocker	8.64
Ozona 15SSW	7.82	<b>Sterling County</b>		Carlsbad	7.76
Ozona Airport	3.47	Sterling City (MES)	8.02	Miles 6.5SSE	7.88
<b>Irion County</b>		Sterling City (TTU)	8.23	San Angelo (NWS)	6.48
Mertzon (TTU)	7.32	Sterling City 0.7NW	7.39	<b>Out of Target Area</b>	
Mertzon (S)	7.27	<b>Sutton County</b>		Junction (Kimble)	6.61
Barnhart	6.75	Sonora Average	8.51	Midland (Midland)	5.81
<b>Schleicher County</b>		Sonora Airport	7.42	Abilene (Taylor)	7.87
Eldorado 0.2	7.60	<b>AREA AVERAGE</b>		St. Lawrence (Glasscock)	7.31
Eldorado 22.6ENE	8.21	<b>7.53</b>		Lees (Glasscock)	8.11