



# Trans-Pecos Weather Modification Association

Monthly Operations Report

## July 2023 Operations Report

The month of July contained 2 days of operations.

<b>Date</b>	<b>Flares</b>	<b>Counties seeded</b>
<b>1</b>	<b>19G+1H</b>	Reeves
<b>31</b>	<b>13G+1H</b>	Pecos
<b>TOTAL</b>	<b>32G+2H</b>	

July did not add much as record heat and very dry conditions persisted throughout the month. Only two seeding opportunities presented themselves, on the 1<sup>st</sup>, and last day of the month. Both days were rather marginal as weak shortwaves allowed for a few storms to fire up over the higher terrain before drifting over the adjacent plains. However, conditions off the mountain did not allow for much stainability, though one cell did track along the Pecos/Reeves County line producing some decent rainfall in spots.

July was a very hot and dry month with only an area average of 0.65” of precipitation being recorded. This is far below the normal of 1.34” in Pecos to 1.75” in Fort Stockton. The year-to-date area average is now only at 4.21”, which should be closer to the 6-6.5” range. A few seeded storms did impact rain gauges, most notably near the Pecos/Reeves County line where 3.90” was recorded. By far the most this month.

With El Nino officially in place, the pattern is expected to become more active as we push through August and into September. Latest CPC outlooks shows a slight chance for above average conditions, but with the extreme heat in place and the upper ridge not showing much movement into the first few weeks of August, this forecast will need plenty of help to verify.



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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.

### July 2023 (Normal's of 1.34" from Pecos to 1.75" in Fort Stockton)

Pecos County		Reeves County		Ward County	
Fort Stockton Airport	0.00	Pecos Airport	0.00	Grandfalls	0.13
Fort Stockton 4W	0.34	Kent	0.45	Monahans Sandhills	0.84
Fort Stockton 38ESE	0.40	RV/PC County Line	3.90	Monahans 6ENE	0.95
Coyanosa	0.05	Balmorhea 2.1E	0.69	Loving County	
Belding	0.00	<b>Area Average</b>		Orla	0.65
John Dorris Station	1.45				
Escalera Ranch	0.01	<b>0.65</b>			

### Year to Date (Normal's of 5.54" from Pecos to 7.95" in Fort Stockton)

Pecos County		Reeves County		Ward County	
Fort Stockton Airport	1.55	Pecos Airport	3.12	Grandfalls	3.12
Fort Stockton 4W	2.28	Kent	4.32	Monahans Sandhills	1.93
Fort Stockton 38ESE	7.24	RV/PC County Line	7.06	Monahans 6ENE	2.14
Coyanosa	3.78	Balmorhea 2.1E	3.28	Loving County	
Belding	1.04	<b>Area Average</b>		Orla	1.41
John Dorris Station	6.56				
Escalera Ranch	26.66	<b>4.21</b>			