



Trans-Pecos Weather Modification Association

Monthly Operations Report

August 2023 Operations Report

The month of August contained 4 days of operations.

Date	Flares	Counties seeded
1	15G+1H	Reeves
11	8G+2H	Pecos
12	18G+2H	Pecos
21	25G+2H	Pecos
TOTAL	66G+7H	

August was able to produce four operational days which compared to July is good. However, August should be one of the busier periods of the season, but the upper ridge continues to wreak havoc on the area. Still, shortwave activity and even a dryline set up allowed for seeding to take place on the 1st, 11th, 12th, and 21st. Storms were seeded on the 1st in Reeves County near Pecos and Toyah while the rest of operations were spread out across Pecos County. Flare usage for the month stood at 66 glaciogenic flares and 7 hygroscopic flares taking the season total to 300 and 25, respectively.

August rainfall totals were certainly better than what was experienced in July, but still below the average of 1.61” in Pecos to 2.29” in Fort Stockton. The best areas were across central parts of both Reeves and Pecos Counties with 3” recorded near Belding and widespread 1.5-2” across Reeves County near and southeast of Pecos. The year-to-date area average is now at 4.21” which is about 50% of normal for this time of year.

El Nino continues to stay in place but remains near the +0.5F degree anomaly which is a reason why the El Nino rains continue to evade the region. Once El Nino fully kicks in, it is expected to be strong which could bring wetter conditions to the area this fall, specifically in October and November. CPC outlooks suggest September will be near average in terms of rainfall but still warm. Per the latest GFS and ECWMF models, September looks to continue to be dominated by the upper ridge that has hammered the region through the summer.



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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.

August 2023 (Normal's of 1.61" from Pecos to 2.29" in Fort Stockton)

Pecos County		Reeves County		Ward County	
Fort Stockton Airport	1.49	Pecos Airport	2.37	Grandfalls	0.45
Fort Stockton 4W	1.28	Kent	1.61	Monahans Sandhills	0.84
Fort Stockton 38ESE	2.41	RV/PC County Line	2.18	Monahans 6ENE	0.94
Coyanosa	1.12	Balmorhea 2.1E	1.17	Loving County	
Belding	3.01	Area Average		Orla	2.38
John Dorris Station	0.20				
Escalera Ranch*	5.11	1.66			

Year to Date (Normal's of 7.15" from Pecos to 10.24" in Fort Stockton)

Pecos County		Reeves County		Ward County	
Fort Stockton Airport	3.04	Pecos Airport	5.49	Grandfalls	3.57
Fort Stockton 4W	3.86	Kent	5.93	Monahans Sandhills	2.01
Fort Stockton 38ESE	9.65	RV/PC County Line	9.24	Monahans 6ENE	2.23
Coyanosa	4.90	Balmorhea 2.1E	4.45	Loving County	
Belding	4.05	Area Average		Orla	3.79
John Dorris Station	6.76				
Escalera Ranch*	31.77	5.59			