



Trans-Pecos Weather Modification Association

Monthly Operations Report

September 2023 Operations Report

The month of September contained 1 day of operations.

Date	Flares	Counties seeded
15	22G+4H	Pecos
TOTAL	22G+4H	

Lack of seedable clouds coupled with poor flight conditions both early and later in the month resulted in only one operational flight. Typically, 3-5 flights take place for the month but this season continues to be tough to navigate for many different reasons. Still, one cell was seeded southwest of Fort Stockton which moved northward towards Coyanosa before crossing the Pecos into eastern Ward County. Flare usage for the year is now at 322 glaciogenic flares and 29 hygroscopic flares.

With only one operational day this month, rainfall totals were not great even though there were a few days of precipitation that did not warrant flights. The area average for the month was 0.79" taking the annual area average to 6.26". This is getting worse then 50% of normal for the area. The best totals were those closest to our seeded cloud on the 15th which tracked just west of Fort Stockton from southern Pecos County northward towards Coyanosa before pushing into eastern Ward County.

With El Nino fully developed, October and November could be active months of the region. The program will continue to operation into the first week of October to take advantage of a favorable forecast which is being suggested by both the latest GFS and ECWMF models. We could have 2-4 additional operational days as a result.



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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.

September 2023 (Normal's of 2.24" from Pecos to 2.08" in Fort Stockton)

Pecos County		Reeves County		Ward County	
Fort Stockton Airport	0.08	Pecos Airport	0.15	Grandfalls	0.85
Fort Stockton 4W	0.80	Kent	0.27	Monahans Sandhills	0.99
Fort Stockton 38ESE	1.79	RV/PC County Line	0.64	Monahans 6ENE	1.00
Coyanosa	1.23	Balmorhea 2.1E	0.33	Loving County	
Belding	0.56	Area Average		Orla	0.00
John Dorris Station	1.94				
Escalera Ranch*	1.05	0.79			

Year to Date (Normal's of 9.39" from Pecos to 12.32" in Fort Stockton)

Pecos County		Reeves County		Ward County	
Fort Stockton Airport	3.12	Pecos Airport	5.64	Grandfalls	4.68
Fort Stockton 4W	4.66	Kent	6.20	Monahans Sandhills	2.79
Fort Stockton 38ESE	11.44	RV/PC County Line	9.88	Monahans 6ENE	3.13
Coyanosa	6.13	Balmorhea 2.1E	4.78	Loving County	
Belding	4.61	Area Average		Orla	6.26
John Dorris Station	8.70				
Escalera Ranch*	32.82	6.26			