



Trans-Pecos Weather Modification Association

Monthly Operations Report

October 2023 Operations Report

The month of October contained 3 days of operations.

Date	Flares	Counties seeded
2	24G+3H	Reeves
3	38G+3H	Pecos
4	15G+3H	Reeves
TOTAL	77G+9H	

The first week of October proved pushing the season into the month a good idea. Three operational flights took place on the 2nd, 3rd and 4th. On the 2nd and 3rd, strong storms spread across Reeves County and then Pecos County producing plenty of beneficial rainfall in parts of the area. On the 4th, seeding took place but storms became severe warned forcing us to pull off, ending our season. End of season flare totals stand at 399 glaciogenic flares and 38 hygroscopic flares with 30 hours of flight time.

A good bulk of precipitation across the region took place on the first week of the month. Areas along and east of a Pecos to Balmorhea line saw the best rainfall totals with areas to the southeast of Fort Stockton getting the best rainfall. Totals of 3-6" were present which were also impacted by a late tropical system crossing out of Mexico into the eastern Trans-Pecos. Overall, totals remain far below normal with the year-to-date area average now at 7.78", which is just above 50% of normal for the year.

Overall, forecast models have undersold the El Nino. Though it is in place, and is strong, the El Nino rains are certainly taking time making their way to West Texas. Models do continue to suggest a wet winter and very wet spring.



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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.

October 2023 (Normal's of 1.10" from Pecos to 1.76" in Fort Stockton)

Pecos County		Reeves County		Ward County	
Fort Stockton Airport	1.56	Pecos Airport	0.65	Grandfalls	0.85
Fort Stockton 4W	1.05	Kent	0.31	Monahans Sandhills	0.99
Fort Stockton 38ESE	6.53	RV/PC County Line	2.65	Monahans 6ENE	1.00
Coyanosa	0.98	Balmorhea 2.1E	0.01	Loving County	
Belding	3.15	Area Average		Orla	0.00
John Dorris Station	4.02				
Escalera Ranch*	3.59	1.83			

Year to Date (Normal's of 10.49" from Pecos to 14.08" in Fort Stockton)

Pecos County		Reeves County		Ward County	
Fort Stockton Airport	4.68	Pecos Airport	6.29	Grandfalls	5.53
Fort Stockton 4W	5.71	Kent	6.51	Monahans Sandhills	3.78
Fort Stockton 38ESE	17.97	RV/PC County Line	12.53	Monahans 6ENE	4.13
Coyanosa	7.11	Balmorhea 2.1E	4.79	Loving County	
Belding	7.76	Area Average		Orla	4.05
John Dorris Station	12.72				
Escalera Ranch*	36.41	7.78			