



Trans-Pecos Weather Modification Association

Monthly Operations Report

June 2023 Operations Report

The month of June contained 2 days of operations.

Date	Flares	Counties seeded
7	22G+2H	Pecos
30	38G+3H	Pecos, Ward
TOTAL	60G+5H	

The month of June was challenging in many regards. First, severe weather grounded us a few times and limited our abilities to target all storms, but also overall conditions did not allow the ample opportunities that usually take place during early to mid-June. Two operational days did take place on the 7th and 30th with both producing good storms. On the 7th, storms were seeded in Pecos County just east and southeast of Fort Stockton. Meanwhile, on the 30th, storms were seeded in northern Pecos County into Ward Counties. For the month, a total of 60 glaciogenic flares were used with 5 hygroscopic flares. This takes the annual total to 202 glaciogenic flares and 16 hygroscopic flares with a total of 16.7 flight hours.

Rainfall across the region averaged 1.16" for the month which is below the normal for both Pecos and Fort Stockton. Still, some better totals were in place along and west of a line from Imperial to Fort Stockton and areas east of Pecos to Balmorhea. For Fort Stockton, the official total of 0.79" takes the annual total to 1.55", much below normal. Meanwhile, at the Pecos airport, the month of June produced 0.27" taking the annual total to only 3.12", also below normal.

A dry and very warm pattern looks to continue into July as high pressure is forecast to stay in place through at least the first two weeks of the month. This is a stronger than usual high pressure which has resulted in some extreme heat. The latest Climate Prediction Center outlooks continue to suggest hot and dry weather staying in place through the months of July and August despite the development of El Niño.



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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.

June 2023 (Normal's of 1.22" from Pecos to 2.23" in Fort Stockton)

Pecos County		Reeves County		Ward County	
Fort Stockton Airport	0.79	Pecos Airport	0.27	Grandfalls	0.83
Fort Stockton 4W	0.59	Kent	1.19	Monahans Sandhills	0.35
Fort Stockton 38ESE	3.13	RV/PC County Line	0.41	Monahans 6ENE	0.39
Coyanosa	1.48	Balmorhea 2.1E	0.77	Loving County	
Belding	1.04	Area Average		Orla	0.05
John Dorris Station	1.70				
Escalera Ranch	4.37	1.16			

Year to Date (Normal's of 4.20" from Pecos to 6.20" in Fort Stockton)

Pecos County		Reeves County		Ward County	
Fort Stockton Airport	1.55	Pecos Airport	3.12	Grandfalls	2.99
Fort Stockton 4W	2.24	Kent	3.87	Monahans Sandhills	1.09
Fort Stockton 38ESE	6.84	RV/PC County Line	3.16	Monahans 6ENE	1.20
Coyanosa	3.37	Balmorhea 2.1E	2.69	Loving County	
Belding	1.04	Area Average		Orla	0.76
John Dorris Station	5.11				
Escalera Ranch	26.65	3.67			