

**TRANS-PECOS WEATHER MODIFICATION ASSOCIATION - PECOS, TEXAS**

**SEEDING REPORT - May 26, 2023**

**SYNOPTIC/MESOSCALE CONDITIONS:**

A dryline will be placed across the target area later this afternoon and evening providing a focal point for shower and storm development. Latest HRRR agrees with this thinking firing up storms around 21Z over the higher terrain before moving over the adjacent plains by 22Z. 0-6km bulk shear values along with steep lapse rates and plentiful CAPE should lead to a few severe storms across the area. Will plan to launch early to get ahead of these warnings if/when convection develops.

**LIFTING MECHANISM:**

Dryline

**THERMODYNAMIC INDICES (12Z KMAF)**

Freezing Level (m)	4550	-15°C Height (m)	6700
Precipitable Water (inches)	1.12	CAPE (J/Kg)	161
LCL	1300	CINH (J/Kg)	242
CCL	2198	LI (°C)	-2
MAF ICA	0.04	PB	2
Cloud Base (meters)	3719	DRT ICA	-
Warm Cloud Depth (meters)	831	Cloud Base Temp (°C)	10

**DISCUSSION:**

Showers and storms were beginning to come off the mountains around 2115Z. These were located in the southwestern corner of Pecos County. With a tornado watch already in place, we launched a bit early to try to get some work done before warning became abundant. Pilot will head that way and should arrive around 22Z. As pilot approached the cell, it had some signs of small hail in it, but not yet warned. We'll work the NNW side of the cell as it gradually advanced to the northeast. Cell was seeded into the 22Z hour through 2212Z. A warning was issued right at 22Z, but we utilized our 20 minute window to seed the cell as needed. By 2215Z, cell was seeded sufficiently so we decided to RTB. No more targets were in place and other development was already warning coming off the Guadalupe's to the west and the Davis Mountains to the south.

**WATCHES/WARNINGS:**

Tornado Watch - Entire Area

T-Storm Warning - Pecos

**SEEDED CELL ID'S:**

650											
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**FLIGHT INFORMATION:**

TIME (Z)	Plane	Flare Location	County
2130	26P	IN AIR	
2200	26P	167° @ 36 nm	PECOS
2202	26P	167° @ 35 nm	PECOS
2203	26P	160° @ 37 nm	PECOS
2204	26P	160° @ 36 nm	PECOS
2206	26P	160° @ 36 nm	PECOS
2208	26P	161° @ 39 nm	PECOS
2210	26P	161° @ 39 nm	PECOS
2211	26P	161° @ 39 nm	PECOS
2212	26P	164° @ 39 nm	PECOS
2225	26P	RTB	

Seeding operations were conducted over Pecos (16G+2H) County. 16 glaciogenic flares and 2 hygroscopic flares were burned within 1 cloud. This is the 6<sup>th</sup> day for seeding in May and the 6<sup>th</sup> day for seeding during the season.