

TRANS-PECOS WEATHER MODIFICATION ASSOCIATION - PECOS, TEXAS

SEEDING REPORT - May 24, 2023

SYNOPTIC/MESOSCALE CONDITIONS:

Upper-level ridge has developed over the region which should suppress coverage of showers and storms. However, an embedded in the flow aloft will be some shortwaves which could develop a few showers and storms especially over the higher terrain. Latest HRRR does suggest at least a few isolated showers and storms firing up later this afternoon and evening, mainly after 5PM.

LIFTING MECHANISM:

Dryline/Upper-Level Dynamics

THERMODYNAMIC INDICES (12Z KMAF)

Freezing Level (m)	4374	-15°C Height (m)	6400
Precipitable Water (inches)	1.03	CAPE (J/Kg)	646
LCL	1444	CINH (J/Kg)	336
CCL	3231	LI (°C)	-5.0
MAF ICA	4.20	PB	5
Cloud Base (meters)	2889	DRT ICA	-
Warm Cloud Depth (meters)	1485	Cloud Base Temp (°C)	14

DISCUSSION:

Into 22Z, storms have stayed over the higher terrain in Brewster and Jeff Davis County. However, parameters still favor strong development over the adjacent plains if any support aloft would arrive. Sat imagery was showing an area near the PC/RV county line for development. Pilot was called airborne and will head this way where a storm was developing rapidly. The pilot arrived at the cell and got into a nice inflow notch where seeding took place. Cell looked like it responded well to our efforts as the size looked to increase as well as the intensity. Once done here, we'll move southwest towards Balmorhea and work that cell. This cell provided plenty of inflow and was seeded into the 23Z hour. With both cells properly seeded and no more targets, we'll now RTB.

WATCHES/WARNINGS:

N/A

SEEDED CELL ID'S:

1816	1809									
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FLIGHT INFORMATION:

TIME (Z)	Plane	Flare Location	County
2230	26P	IN AIR	
2253	26P	142° @ 10 nm	REEVES
2256	26P	148° @ 11 nm	REEVES
2257	26P	148° @ 11 nm	REEVES
2258	26P	134° @ 14 nm	REEVES
2300	26P	125° @ 13 nm	REEVES
2301	26P	125° @ 13 nm	REEVES
2304	26P	134° @ 12 nm	REEVES
2320	26P	197° @ 25 nm	REEVES
2321	26P	193° @ 24 nm	REEVES
2323	26P	197° @ 24 nm	REEVES
2324	26P	203° @ 25 nm	REEVES
2325	26P	203° @ 25 nm	REEVES
2326	26P	203° @ 23 nm	REEVES
2340	26P	RTB	

Seeding operations were conducted over Reeves (23G+3H) County. 23 glaciogenic flares and 3 hygroscopic flares were burned within 2 clouds. This is the 5th day for seeding in May and the 5th day for seeding during the season.