

TRANS-PECOS WEATHER MODIFICATION ASSOCIATION - PECOS, TEXAS

SEEDING REPORT - August 1, 2023

**SYNOPTIC/MESOSCALE CONDITIONS:**

Conditions are similar today compared to yesterday as the upper ridge is just far enough north that shortwave activity could rotate around the southern periphery allowing for storms to get started over the higher terrain. Models indicate some storms may survive over the adjacent plains as we get near 21/22Z due to increased heating and better dynamical forcing. Will keep rain chances in place as a result, but most storms should stay south of the Pecos River.

**LIFTING MECHANISM:**

Forcing Aloft

**THERMODYNAMIC INDICES (12Z KMAF)**

Freezing Level (m)	5062	-15°C Height (m)	7450
Precipitable Water (inches)	1.36	CAPE (J/Kg)	158
LCL	2410	CINH (J/Kg)	294
CCL	3639	LI (°C)	-0.4
MAF ICA	-0.68	PB	1
Cloud Base (meters)	2743	DRT ICA	-
Warm Cloud Depth (meters)	2319	Cloud Base Temp (°C)	15

**DISCUSSION:**

Short-lived showers were ongoing through the 20Z hour into the 21Z hour. It wasn't until around 2110Z that storms had enough vertical depth to sustain away from the higher terrain, so pilot took off and pushed into eastern Reeves County. We'll work a cluster of storms here as we near the 22Z hour. Seeding took place by 2150Z and continued more aggressively near the 22Z hour where the pilot found good consistent inflow in the west-northwest corner of the cell. Latest radar trends were not looking good, however, but we'll see if the storm takes to our material. Just after 2205Z, we got our last dosage out. The Radar was weakening, but we may see a response. With no other targets in place. We'll RTB.

**WATCHES/WARNINGS:**

N/A

**SEEDED CELL ID'S:**

260											
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**FLIGHT INFORMATION:**

TIME (Z)	Plane	Flare Location	County
2130	26P	IN AIR	
2150	26P	176° @ 10 nm	REEVES
2151	26P	179° @ 11 nm	REEVES
2156	26P	167° @ 08 nm	REEVES
2157	26P	173° @ 13 nm	REEVES
2159	26P	166° @ 09 nm	REEVES
2201	26P	172° @ 09 nm	REEVES
2204	26P	172° @ 10 nm	REEVES
2205	26P	172° @ 10 nm	REEVES
2235	26P	RTB	

Seeding operations were conducted over Reeves (15G+1H) County. 15 glaciogenic flares and 1 hygroscopic flare were burned within 1 cloud. This is the 1<sup>st</sup> day for seeding in August and the 12<sup>th</sup> day for seeding during the season.