

TRANS-PECOS WEATHER MODIFICATION ASSOCIATION - PECOS, TEXAS

SEEDING REPORT - August 21, 2023

SYNOPTIC/MESOSCALE CONDITIONS:

Upper-level ridge has lifted to the north some as tropical moisture moves into the region from the east. This could provide just enough to allow for a few showers to fire up along and near I-10 later this afternoon. Latest HRRR does suggest a few storms developing near a line from Ozona to Fort Stockton and possibly even further east as we get into the later afternoon hours. Will keep slight rain chances in place for the Concho Valley and bump up to likely for the Trans-Pecos where terrain helps organize development.

LIFTING MECHANISM:

Orographic Lift

THERMODYNAMIC INDICES (12Z KMAF)

Freezing Level (m)	5074	-15°C Height (m)	7370
Precipitable Water (inches)	1.10	CAPE (J/Kg)	368
LCL	2534	CINH (J/Kg)	362
CCL	4035	LI (°C)	-1.1
MAF ICA	0.32	PB	1
Cloud Base (meters)	3048	DRT ICA	2.04
Warm Cloud Depth (meters)	2026	Cloud Base Temp (°C)	11

DISCUSSION:

Though 19Z, small, isolated showers were pulsating across the region, but it was closer to the 20Z hour where one area showed some sustainability. It was at this time a call to launch was made for the Fort Stockton area where a cluster of cells were present. The pilot will launch and head that was as other development cannot be ruled out as well. Pilot began seeding this cell just east of Fort Stockton with a good response as it moved over and just west of town. We seeded this area aggressively but now we'll move a bit further east near the I-10/67 merger. This area had one small area of inflow, but outflow dominated for the most part. We'll head south of the split now and see if anything is better over here. Pilot was able to get a dosage of 5 glaciogenic flares here, but a warning came and forced us to pull away. Pilot will RTB for flares as he was having an issue with the second rack of wings. He'll troubleshoot as he lands.

WATCHES/WARNINGS:

N/A

SEEDED CELL ID'S:

5	70	14									
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FLIGHT INFORMATION:

TIME (Z)	Plane	Flare Location	County
2005	26P	IN AIR	
2028	26P	127° @ 37 nm	PECOS
2029	26P	128° @ 39 nm	PECOS
2030	26P	132° @ 41 nm	PECOS
2032	26P	132° @ 42 nm	PECOS
2035	26P	134° @ 43 nm	PECOS
2036	26P	134° @ 43 nm	PECOS
2040	26P	143° @ 43 nm	PECOS
2042	26P	143° @ 43 nm	PECOS
2056	26P	117° @ 45 nm	PECOS
2057	26P	119° @ 45 nm	PECOS
2109	26P	119° @ 54 nm	PECOS

2111	26P	122° @ 56 nm	PECOS
2115	26P	RTB	

Seeding operations were conducted over Pecos (25G+2H) County. 25 glaciogenic flares and 2 hygroscopic flares were burned within 3 clouds. This is the 4th day for seeding in August and the 15th day for seeding during the season.