

TRANS-PECOS WEATHER MODIFICATION ASSOCIATION - PECOS, TEXAS

SEEDING REPORT - May 21, 2023

SYNOPTIC/MESOSCALE CONDITIONS:

An area of showers is moving east out of the area this morning allowing for clear skies to develop to the west. This will allow for sufficient surface heating across the region. With saturate soils, we'll see increased low level moisture across the area helping aid in the development of more showers and storms this afternoon. Latest HRRR shows a window of 1-5PM this afternoon for areas along I-10 from near Balmorhea to Fort Stockton.

LIFTING MECHANISM:

Cold Front

THERMODYNAMIC INDICES (12Z KMAF)

Freezing Level (m)	4017	-15°C Height (m)	6600
Precipitable Water (inches)	1.18	CAPE (J/Kg)	42
LCL	1228	CINH (J/Kg)	88
CCL	2170	LI (°C)	0.7
MAF ICA	-1.4	PB	0
Cloud Base (meters)	2804	DRT ICA	-
Warm Cloud Depth (meters)	1213	Cloud Base Temp (°C)	18

DISCUSSION:

Clearing behind the morning showers has quickly destabilized the atmosphere enough to fire up a few showers/storms west and south of Fort Stockton. With sat imagery looking favorable, we'll launch and head south into the areas. The pilot arrived at the cell and did get a little inflow. However, the cell was very small and had very limited development. We struggled with these cells into the 18Z hour just WSW of FS and about 10-15 miles S of FS. The pilot finally indicated that each cell was outflow dominate with only minimal rain shafts. The radar was showing a similar story, therefore it was time to RTB and save resources for later.

WATCHES/WARNINGS:

N/A

SEEDED CELL ID'S:

2048											
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FLIGHT INFORMATION:

TIME (Z)	Plane	Flare Location	County
1725	26P	IN AIR	
1757	26P	142° @ 39 nm	PECOS
1759	26P	140° @ 39 nm	PECOS
1800	26P	140° @ 41 nm	PECOS
1815	26P	RTB	

Seeding operations were conducted over Pecos (6G) County. 6 glaciogenic flares were burned within 1 cloud. This is the 2nd day for seeding in May and the 2nd day for seeding during the season.