

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

**SEEDING REPORT - July 1, 2023**

**SYNOPTIC/MESOSCALE CONDITIONS:**

The upper-level pattern is like yesterday with a broken-down ridge and weak southwesterly flow aloft. This will once again help sharpen a dryline which will be extended across parts of the Permian Basin and Trans-Pecos early this afternoon into the evening. Storms should fire up a bit earlier today as convective temperatures are down a few degrees with the HRRR initiating storms between 2 and 3PM.

**LIFTING MECHANISM:**

Dryline, Upper-Level Forcing

**THERMODYNAMIC INDICES (12Z KMAF)**

Freezing Level (m)	4774	-15°C Height (m)	7350
Precipitable Water (inches)	1.31	CAPE (J/Kg)	909
LCL	1393	CINH (J/Kg)	274
CCL	3303	LI(°C)	-3.0
MAF ICA	-1.24	PB	3
Cloud Base (meters)	3353	DRT ICA	-
Warm Cloud Depth (meters)	1421	Cloud Base Temp (°C)	6

**DISCUSSION:**

At 18Z, a stray storm was firing near the I-20/I-10 split with a decent cu field firing further east. The pilot is enroute from SJT and will begin work as we cross into Pecos County. No targets as of 18Z, but the expectation is we'll have a few once we get into an area near Fort Stockton. The pilot crossed into Pecos County at 1910Z and will head into Reeves County just across the county line. Seeding began just before 1920Z just inside Reeves County. We'll focus on storm #1924 to start before pushing further west into Reeves County. Pilot found some inflow on the north side of cell #1924 before wrapping back around to the south side as conditions were more embedded. We'll wrap back around south and push further west into Reeves County to investigate cell #1746. Cells were not doing great, especially after yesterday's response we were seeing. But we'll continue to work along the eastern leading edge. We worked along the leading edge through 2030Z and into 2040Z. But development remained marginal at best. Still, cloud parameters were gradually increasing throughout the seeding. But, but 1950Z, too much outflow was being reported so we decided to end the flight and head back to SJT.

**WATCHES/WARNINGS:**

N/A

**SEEDED CELL ID'S:**

1924	1746										
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**FLIGHT INFORMATION:**

TIME (Z)	Plane	Flare Location	County
1820	24P	IN AIR	
1918	24P	120° @ 15 nm	REEVES
1919	24P	124° @ 14 nm	REEVES
1920	24P	121° @ 14 nm	REEVES
1922	24P	120° @ 14 nm	REEVES
1923	24P	129° @ 12 nm	REEVES
1932	24P	151° @ 21 nm	REEVES
1934	24P	159° @ 21 nm	REEVES
1935	24P	161° @ 21 nm	REEVES
1936	24P	156° @ 21 nm	REEVES

<b>1942</b>	<b>24P</b>	160° @ 20 nm	<b>REEVES</b>
<b>1950</b>	<b>24P</b>	RTB	

Seeding operations were conducted over Reeves (19G+1H) County. 19 glaciogenic flares and 1 hygroscopic flare were burned within 2 clouds. This is the 1<sup>st</sup> day for seeding in July and the 10<sup>th</sup> day for seeding during the season.