

TRANS-PECOS WEATHER MODIFICATION ASSOCIATION - BARSTOW/PECOS, TEXAS

SEEDING REPORT - August 18, 2018

SYNOPTIC/MESOSCALE CONDITIONS:

Northwesterly flow aloft should allow for enhanced instability across the region this afternoon. Showers and storms should initiate rather early over the higher terrain and could impact the adjacent plains this afternoon where very warm temperatures are expected to be present. CAPE values in excess of 2k J/Kg will be available but with limited 0-6km bulk shear values storm structure and organization will be limited. Much of the convection will be short-lived but could produce opportunities for seeding.

LIFTING MECHANISM:

Upper level support, terrain

THERMODYNAMIC INDICES (12Z KMAF)

Freezing Level (m)	4844	-15°C Height (m)	7650
Precipitable Water (inches)	1.50	CAPE (J/Kg)	141
LCL	1901	CINH (J/Kg)	219
CCL	3562	LI(°C)	-1.0
MAF ICA	-0.68	PB	1
Cloud Base (meters)	3108	DRT ICA	-
Warm Cloud Depth (meters)	1736	Cloud Base Temp (°C)	12

DISCUSSION:

Ongoing showers were moving off the mountains but were quickly dissipated through the 19Z hour. However, these have blown off an outflow boundary north towards Verhalen. Showers/storms were trying to tap into a warmer airmass which could lead to increasing coverage of convection. We'll go ahead and launch a pilot to investigate. Pilot did get inflow on the first of three cells which later come together to form one. However, he was getting engulfed in the rain shaft at this point. We'll stay on the northern edge of showers/storms which is now forming a broken line from Hoban east southeast towards Fort Stockton. Inflow in much of this was tough to find as the window for seeding was short. The storms had no steering flow, so once they fired up the outflow boundary would become displaced from the convection popping new convection further north. We'll continue to fight these cells. Pilot got into an area where one cell was beginning to merge with another. He got very strong inflow and began seeding aggressively in this area. Storm rapidly developed in the area of seeded right near the RV/PC county line. As with any of these storms, the window for seeding was short but we took full advantage of the strong inflows putting out a high dosage of flares. Storm did really well right along 285 as it moved NNW. We moved closer to Pecos after 21Z but convection there was very weak and had no inflow. We'll move further west to the NE of Toyah where a new cell was trying to develop. This cell only lasted a matter of minutes. Therefore, we decided to head into Ward County near Grandfalls where scattered showers were firing up. But again, these were very short-lived and did not produce for us. We decided to RTB at 2140Z for fuel/flares with a relaunch possible. Relaunch was not needed due to all convection being heavily embedded and t-storms threatening the terminal. We'll regroup for tomorrow.

WATCHES/WARNINGS:

None

SEEDED CELL ID'S:

2227	2148							
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FLIGHT INFORMATION:

TIME (Z)	Plane	Flare Location	County
2025	26P	IN AIR	

2037	26P	185° @ 07 nm	Reeves
2044	26P	165° @ 08 nm	Reeves
2056	26P	134° @ 17 nm	Reeves
2058	26P	134° @ 19 nm	Reeves
2103	26P	130° @ 18 nm	Reeves
2105	26P	125° @ 18 nm	Reeves
2107	26P	123° @ 15 nm	Reeves
2140	26P	RTB	

Seeding operations were conducted over Reeves (20) County. 20 flares were burned within 2 clouds. This is the 1st day for seeding in August and the 8th day for seeding during the season.