

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

SEEDING REPORT - July 2, 2018

SYNOPTIC/MESOSCALE CONDITIONS:

Zonal flow aloft across the region will keep conditions across the Concho Valley rather quiet. However, a weak dryline and surface low pressure will come out of Mexico into the Trans-Pecos this afternoon resulting in possible showers and thunderstorms. Additionally, embedded in the flow aloft will be a weak disturbance which should help support thunderstorm activity. Both the HRRR and NAM initiate showers/storms over the mountains around 1-2PM and have them drifting over the adjacent plains by 2-3PM. Coverage will increase during the late afternoon before dissipating by sunset. Likely storm chances will be added to the forecast today for areas mainly west of a line from Monahans to Fort Stockton.

LIFTING MECHANISM:

Upper Level Dynamics

THERMODYNAMIC INDICES (12Z KMAF)

Freezing Level (m)	4796	-15°C Level (m)	7200
Precipitable Water (inches)	1.35	CAPE (J/Kg)	449
LCL	1771	CINH (J/Kg)	337
CCL	3637	LI(°C)	-1.6
MAF ICA	1.04	PB	2
Cloud Base (meters)	3301	DRT ICA	-
Warm Cloud Depth (meters)	1495	Cloud Base Temp (°C)	10

DISCUSSION:

Storms began to fire over the higher terrain areas of the Trans-Pecos at 18Z. These were somewhat stationary but began to drift northward over the adjacent plain by 1830Z. They hung around hugging the mountains, but we decided to launch as further movement to the north would make them seedable. Pilot was airborne at 1855Z and pushed south southeast near I-10 between Fort Stockton and the Reeves/Pecos county line. However, we targeted a storm just east of the county line along I-10. Radar was showing a large cluster of storms from Fort Stockton to Balmorhea and areas to the south. The issue, however, is how embedded the convection. Best bet is to stay on the northern edge of this development and see what takes place. Furthermore, sat imagery was showing much of the area already clouded. Pilot found some inflow on first target, so we'll work this sufficiently and then move our way east. The western half of these storms were more shower activity and did not have much vertical development. It seems as storms push off of the mountains, they are falling apart quickly. After investing stuff further west, we decided to move back east towards Fort Stockton where one cell appears to be organizing well. However, pilot reported everything was heavily embedded. We'll RTB, get fuel, and standby and see if anything better organized can get going.

WATCHES/WARNINGS:

None

SEEDED CELL ID'S:

1	2							
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FLIGHT INFORMATION:

TIME (Z)	Plane	Flare Location	County
1855	26P	IN AIR	
1927	26P	170° @ 24 nm	Reeves
1928	26P	170° @ 24 nm	Reeves
1943	26P	144° @ 25 nm	Pecos
2020	26P	RTB	

Seeding operations were conducted over Reeves (4) and Pecos (2) Counties. 6 flares were burned within 6 clouds. This is the 1st day for seeding in July and the 3rd day for seeding during the season.