

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

SEEDING REPORT - July 6, 2018

SYNOPTIC/MESOSCALE CONDITIONS:

Upper high remains in place over the four corners region which will bring northeasterly winds aloft to the area. This will advect cooler upper level air and bring any shortwave activity right over our region. Meanwhile, strong easterly to southeasterly surface flow will continue to advect plentiful moisture into both the Concho Valley and Trans-Pecos. Without a surface feature, shower/storms will be dependent upon dynamical forcing only. Therefore, for today, it appears the best shot for showers/storms will be across the Concho Valley where shortwave activity is expected. The latest HRRR is not as aggressive as the WRF with at least isolated to scattered storms. Instead, it brings in a cluster of showers late this morning along with isolated showers and maybe a storm or two. However, the cluster it is showing is not currently developed which means the HRRR did not initiate well. I will stick with the WRF today and keep likely storm chances in the forecast.

LIFTING MECHANISM:

Strong Moisture Advection

THERMODYNAMIC INDICES (12Z KMAF)

Freezing Level (m)	4851	-15°C Height (m)	7520
Precipitable Water (inches)	1.30	CAPE (J/Kg)	35
LCL	1357	CINH (J/Kg)	44
CCL	2455	LI(°C)	0.7
MAF ICA	-2.68	PB	1
Cloud Base (meters)	2834	DRT ICA	-5.24
Warm Cloud Depth (meters)	1783	Cloud Base Temp (°C)	13

DISCUSSION:

A ridge running shortwave was moving westward into the Trans-Pecos from the Concho Valley and Permian Basin. Storms were threatening Loving and Ward counties as of 2020Z, so we'll go ahead and launch to intercept. Keep in mind, seeding in northwestern Pecos county is OFF until further notice as farmers harvest their crop. Our main focus will be Ward and Loving counties as stuff further south southwest was still heavily embedded. Storm was seeded well in western Ward County. After a good amount of flares in that cell, we pushed east into eastern Ward County. However, radio communications were lost and with no backup at the time we had to RTB. We'll will try to diagnose the problem soon and get it back up.

WATCHES/WARNINGS:

None

SEEDED CELL ID'S:

2198									
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FLIGHT INFORMATION:

TIME (Z)	Plane	Flare Location	County
1855	26P	IN AIR	
2059	26P	027° @ 16 nm	Ward
2101	26P	012° @ 17 nm	Ward
2105	26P	010° @ 14 nm	Ward
2106	26P	017° @ 15 nm	Ward
2108	26P	029° @ 14 nm	Ward
2125	26P	RTB	

Seeding operations were conducted over Ward (10) County. 10 flares were burned within 1 cloud. This is the 2nd day for seeding in July and the 4th day for seeding during the season.