

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

SEEDING REPORT - June 29, 2018

SYNOPTIC/MESOSCALE CONDITIONS:

Southwesterly flow aloft has taken over across Far West Texas. Meanwhile, several shortwaves embedded in the flow aloft will move over Far West Texas and the Trans-Pecos this afternoon and evening. Upper level support will be conducive for widespread shower and thunderstorms development across a majority of the Trans-Pecos. The latest HRRR model is over aggressive as usual while the WRF is probably underplaying it a bit. I think storms will try to initiate similar to yesterday, around 2-3PM, and become more widespread during the late afternoon and evening hours. Some of these storms may flirt with western Crockett County, but I don't see enough to warrant rain chances in the forecast just yet.

LIFTING MECHANISM:

Upper Level Dynamics

THERMODYNAMIC INDICES (12Z KMAF)

Freezing Level (m)	4944	-15°C Level (m)	7300
Precipitable Water (inches)	1.47	CAPE (J/Kg)	1522
LCL	1762	CINH (J/Kg)	205
CCL	3120	LI(°C)	-5.2
MAF ICA	-16	PB	5
Cloud Base (meters)	3510	DRT ICA	-
Warm Cloud Depth (meters)	1434	Cloud Base Temp (°C)	10

DISCUSSION:

From 18 to 19Z, a few showers were on and off across parts of western Reeves County. These were very short lived and unable to reach seedable limits. Areas west of Pecos were beginning to become more stratiform and were not producing convective clouds. However, further east, convection was more likely where more heating was taking place. Pilot got up at 2010Z and headed that way where he intercepted storm #42 near Coyanosa. Inflow was quickly found, and seeding began shortly after 2030Z. This cell was seeded through 2030Z before we decided to push further south. Initial seeded cell seemed to respond well. However, the second cell did not. So, we'll move back further northeast towards Pecos into Reeves County to check out additional convection. However, these were raining out rapidly. We'll stick around the area and see if anything pops up before calling it. On another note, storm cell #42 is holding strong as it moves into Monahans. Seeding seemed to support this storm as it held together and dropped a swath of rain from Coyanosa to Monahans. Before calling it, we investigated one more cell, cell #115. Good inflow was found so it was sufficiently seeded into the 2130Z hour. By this point, storm was seeded sufficiently and no other seedable convection was present within the target area. We'll get flares and fuel and be ready to launch again if needed.

WATCHES/WARNINGS:

None

SEEDED CELL ID'S:

42	100	115						
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FLIGHT INFORMATION:

TIME (Z)	Plane	Flare Location	County
2010	26P	IN AIR	
2034	26P	110° @ 27 nm	PECOS
2036	26P	110° @ 27 nm	PECOS
2037	26P	110° @ 27 nm	PECOS
2039	26P	110° @ 27 nm	PECOS

2051	26P	140° @ 36 nm	PECOS
2054	26P	144° @ 37 nm	PECOS
2117	26P	090° @ 12 nm	REEVES
2118	26P	090° @ 12 nm	REEVES
2119	26P	090° @ 12 nm	REEVES
2121	26P	066° @ 12 nm	WARD
2130	26P	RTB	

Seeding operations were conducted over Pecos (12), Reeves (9) and Ward (2) Counties. 23 flares were burned within 3 clouds. This is the 2nd day for seeding in June and the 2nd day for seeding during the season.