

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

**SEEDING REPORT - August 12, 2016**

**SYNOPTIC/MESOSCALE CONDITIONS:**

A very moist atmosphere is in place today with dew point area wide in the upper 60's to low 70's. This will interact with a shortwave aloft along with sufficient surface heating to produce numerous showers and storms across both target areas. Coverage appears to be best across the Trans-Pecos and western Concho Valley, but the latest HRRR model suggest a good majority of each target area receiving some amount of rainfall.

**LIFTING MECHANISM:**

COLD FRONT

**THERMODYNAMIC INDICES (12Z KMAF)**

Freezing Level (m)	5251	CAPE (J/Kg)	447
Precipitable Water (inches)	1.49	CINH (J/Kg)	37
LCL	3498	LI(°C)	-1.2
CCL	3809	PB	1
MAF ICA	-0.68	DRT ICA	-0.8
Cloud Base (meters)	2895	Cloud Base Temp (°C)	13
Warm Cloud Depth (meters)	2355		

**DISCUSSION:**

BY 18Z, A FEW STORMS WERE BEGINNING TO DEVELOP NEAR BALMOREAH. HOWEVER, THIS CONVECTION WAS STILL HUGGING THE MOUNTAINS. LATEST VIS SAT IMAGERY SHOWS SOME ADDITIONAL STORMS TRYING TO FIRE FURTHER NORTH. WILL PUT PILOT ON STANDBY FOR POSSILBE LAUNCH SHORTLY. PILOT WAS QUICKLY CALLED AIRBORNE AT 1805Z AS STORMS WERE FIRING A BIT FURTHER NORTH TOWARDS TOYAH. HE'LL GET AIRBORNE AND HEAD AHEAD OF THESE CELLS AS THEY ARE MOVING EAST. PILOT GOT AIRBORNE AT 1830Z AND WILL HEAD ESE AHEAD OF THE MAIN LINE OF CELLS. EXTENSIVE SEEDING TOOK PLACE ALONG THIS LINE THROUGH THE 18Z HOUR BEFORE MOVING OFF TO THE NORTH TOWARDS COYANOSA. RADAR WAS NOW DEVELOPING A SQUALL LINE ATTACHING OUR FIRST TARGET TO OUR NEXT TARGET AS OF 1910Z. SEEDGING FURTHER NORTH CONTINUED UNTIL 1930Z, BUT RADAR IMAGERY WAS SHOWING A LOSS OF CONVECTION. WE DECIDED AT 1940Z TO RTB AND REFLARE SINCE WE USED A GOOD AMOUNT OF FLARES ALREADY ALLOWING US TO GET READY FOR MORE CONVECTION IF IT DEVELOPS LATER.

**WARNING/WATCHES:**

None

**SEEDED CELL ID'S:**

296	792								
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**FLIGHT INFORMATION:**

TIME (Z)	Plane	Flare Location	County
1830	26P	IN AIR	
1845	26P	150° @ 21 nm	REEVES
1846	26P	160° @ 21 nm	REEVES
1847	26P	150° @ 22 nm	REEVES
1849	26P	155° @ 22 nm	REEVES
1850	26P	145° @ 23 nm	REEVES
1852	26P	155° @ 24 nm	REEVES
1855	26P	155° @ 23 nm	REEVES
1857	26P	155° @ 22 nm	REEVES
1858	26P	160° @ 23 nm	REEVES
1914	26P	090° @ 29 nm	REEVES
1916	26P	090° @ 27 nm	PECOS
1929	26P	130° @ 28 nm	PECOS
1933	26P	125° @ 28 nm	PECOS
1940	26P	RTB	

Seeding operations were conducted Reeves (24) and Pecos (6) Counties. 30 flares were burned within 2 clouds. This is the 5<sup>th</sup> day for seeding in August and the 11<sup>th</sup> day for seeding during the season.