

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

**SEEDING REPORT - September 16, 2016**

**SYNOPTIC/MESOSCALE CONDITIONS:**

A STRONG SHORTWAVE TROUGH PUSHED OVER THE BIG BEND REGION INTO THE STOCKTON PLATEAU AND EASTERN TRANS-PECOS. THIS ALLOWED FOR SHOWERS AND STORMS TO DEVELOP ACROSS PECOS AND REEVES COUNTIES WHERE A MARGINALLY UNSTABLE ATMOSPHERE DEVELOPED. STEEP LAPSE RATES ALONG WITH FAVORABLE 0-6KM BULK SHEAR VALUES COULD HELP PUSH THESE STORMS INTO SEVERE LIMITS. SO FAR, STORMS ARE PRETTY INTENSE BUT NO WARNINGS.

**LIFTING MECHANISM:**

UPPER LOW

**THERMODYNAMIC INDICES (12Z KMAF)**

Freezing Level (m)	4516	CAPE (J/Kg)	862
Precipitable Water (inches)	1.58	CINH (J/Kg)	59
LCL	1228	LI(°C)	-4.1
CCL	1781	PB	4
MAF ICA	-0.52	DRT ICA	-
Cloud Base (meters)	1828	Cloud Base Temp (°C)	18
Warm Cloud Depth (meters)	2687		

**DISCUSSION:**

STORMS SLID OFF OF THE HIGHER TERRAIN OF JEFF DAVIS COUNTY INTO PARTS OF WESTERN PECOS COUNTY. AS THEY DID, THE STORM BECAME SEVERE SO WE COULDN'T LAUNCH. HOWEVER, BY 2115Z, STORMS OFF THE MAIN LINE BROKE OFF AND LEFT SPLIT TO THE NORTH. WE'LL LAUNCH ON THESE, BUT OF COURSE WE HAVE TO WORRY ABOUT ANOTHER WARNING BEING ISSUED AS THEY WERE GETTING PRETTY INTENSE, ESPECIALLY WITH A LIFT SPLIT STORM. PILOT SHOULD GET AIRBORNE AROUND 2140Z AND WE'LL GET TO WORK. WE GOT TO THE FIRST STORM AND BEGAN SEEDING NEAR COYANOSA. THIS STORM PRODUCED SOME VERY STRONG INFLOW SO WE FLARED IT UP IN HOPES TO REDUCE ANY CHANCE OF HAIL. I DO BELIEVE, FOR A BIT, WE DID LIMIT THE HAIL AS IT PASSED GRANDFALLS. HOWEVER, ONCE WARNED WE HAD TO PULL OFF AND IT APPEARED THE HAIL THREAT RETURNED AS WE PULLED OFF. WE THEN PUSHED SOUTH ALONG THE COUNTY LINE OF RV/PC COUNTIES. MORE STORMS WERE SEEDING ALONG THE COUNTY LINE HALFWAY BETWEEN WARD AND JEFF DAVIS COUNTIES. WE DID SEED A FEW STORMS HERE BUT BASES WERE GETTING VERY LOW ON US BUT ALSO STORMS WERE BEGINNING TO DISSIPATE. WE DECIDED TO RTB AT 2325Z AND REGROUP FOR TOMORROW.

**WARNING/WATCHES:**

T-STORM WARNING - SOUTHERN PECOS

T-STORM WARNING - WARD

**SEEDING CELL ID'S:**

2003	2392								
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**FLIGHT INFORMATION:**

TIME (Z)	Plane	Flare Location	County
2140	26P	IN AIR	
2210	26P	100° @ 29 nm	PECOS
2211	26P	105° @ 29 nm	PECOS
2215	26P	090° @ 28 nm	PECOS
2220	26P	090° @ 34 nm	PECOS
2224	26P	090° @ 36 nm	PECOS
2226	26P	085° @ 33 nm	PECOS
2252	26P	140° @ 26 nm	REEVES
2255	26P	145° @ 26 nm	REEVES
2257	26P	140° @ 27 nm	REEVES
2258	26P	130° @ 28 nm	REEVES
2309	26P	165° @ 29 nm	REEVES

2225	26P	RTB	
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Seeding operations were conducted in Pecos (18) and Reeves (10) Counties. 28 flares were burned within 2 clouds. This is the 3<sup>rd</sup> day for seeding in September and the 17<sup>th</sup> day for seeding during the season.