

TRANS-PECOS WEATHER MODIFICATION ASSOCIATION - PECOS, TEXAS

SEEDING REPORT - September 1, 2016

SYNOPTIC/MESOSCALE CONDITIONS:

An abundance of moisture remains in place across much of the state of Texas. Dew points across the Concho Valley are in the upper 60's with mid to upper 60's across the Trans-Pecos. Ridging aloft remains in place but embedded within the ridge is a weak shortwave trough which should provide enough divergence aloft to spark isolated to scattered showers and storms this afternoon. The latest HRRR doesn't verify well but does hint at an increase of coverage of showers and storms later this afternoon into the evening. The WRF is very similar, although it verifies well. I'll bump rain chances to likely for both areas as convection does look like although it can be isolated in some areas. High precipitable water values could lead to a few heavy downpours and with very little steering aloft, we could see a flash flood threat.

LIFTING MECHANISM:

UPPER LOW

THERMODYNAMIC INDICES (12Z KMAF)

Freezing Level (m)	4733	CAPE (J/Kg)	234
Precipitable Water (inches)	1.62	CINH (J/Kg)	54
LCL	932	LI(°C)	-3.2
CCL	2081	PB	3
MAF ICA	-1.24	DRT ICA	-5.93
Cloud Base (meters)	1676	Cloud Base Temp (°C)	16
Warm Cloud Depth (meters)	3057		

DISCUSSION:

PLENTY OF DEVELOPMENT TO THE EAST THROUGH MUCH OF THE DAY. HOWEVER, BY 22Z, SOME STORMS BEGAN TO POP UP IN EASTERN WARD COUNTY WITH MORE DEVELOPING TO THE SOUTH NEAR FORT STOCKTON AND EVEN FURTHER WEST TOWARDS THE RV/PC COUNTY LINE. PILOT WILL GET AIRBORNE AND HEAD FOR WARD COUNTY BEFORE HEADING ELSEWHERE. WE DID FIND INFLOW ON THIS STORM PRIOR TO 23Z AS IT BACK BUILT FROM WARD COUNTY INTO REEVES COUNTY. THROUGH 2320Z, THIS STORM APPEARED TO RESPOND VERY WELL TO THE SEEDING. BY 2330Z, MUCH OF THE OTHER DEVELOPMENT WAS DISSIPATING AND THIS CELL LOST INFLOW. PILOT RTB'D AT 2335Z. ALTHOUGH A SHORT FLIGHT, WE DO THINK WE WERE SUCCESSFUL WITH THE LONE STORM SEEDED.

WARNING/WATCHES:

N/A

SEEDED CELL ID'S:

5493									
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FLIGHT INFORMATION:

TIME (Z)	Plane	Flare Location	County
2220	26P	IN AIR	
2245	26P	085° @ 26 nm	WARD
2248	26P	095° @ 23 nm	REEVES
2253	26P	090° @ 24 nm	WARD
2255	26P	090° @ 23 nm	WARD
2303	26P	100° @ 25 nm	REEVES
2308	26P	100° @ 26 nm	REEVES
2310	26P	100° @ 21 nm	REEVES
2314	26P	110° @ 21 nm	REEVES
2319	26P	115° @ 20 nm	REEVES
2324	26P	120° @ 21 nm	REEVES
2335	26P	RTB	

Seeding operations were conducted Ward (6) and Reeves (15) Counties. 21 flares were burned within 1 cloud. This is the 1st day for seeding in September and the 15th day for seeding during the season.