

TRANS-PECOS WEATHER MODIFICATION ASSOCIATION - PECOS, TEXAS

SEEDING REPORT - July 2, 2016

SYNOPTIC/MESOSCALE CONDITIONS:

Upper level dynamics will be favorable across Far West Texas this afternoon into the Trans-Pecos. We should see showers and storms develop along parts of Reeves/Pecos Counties with more development possible further west. Latest HRRR model suggests earlier initiation, around 18Z. However, limited instability may cause storms to struggle once they pull off of the mountains, so long lived development will be hard to come by today. Still, likely rain chances will hang in the forecast although coverage and intensity may be limited. A few storms could slide as far east as Crockett/Reagan Counties which could force action by the WTWMA.

LIFTING MECHANISM:

Sufficient Surface Heating

THERMODYNAMIC INDICES (12Z KMAF)

Freezing Level (m)	4804	CAPE (J/Kg)	296
Precipitable Water (inches)	1.57	CINH (J/Kg)	195
LCL	1511	LI(°C)	-2.2
CCL	2961	PB	2
MAF ICA	-0.96	DRT ICA	-
Cloud Base (meters)	3048	Cloud Base Temp (°C)	14
Warm Cloud Depth (meters)	1756		

DISCUSSION:

RADAR TRENDS HAD A FEW WEAK SHOWERS/STORMS BETWEEN THE WTWMA TARGET AREA AND THE TPWMA TARGET AREA WITHIN PECOS COUNTY THROUGH 1830Z. LATEST SAT IMAGERY SHOWED SOME CU BECOMING AGITATED OVER THE DAVIS MOUNTAINS BEGINNING TO PUSH INTO THE TRANS-PECOS TARGET AREA BY 1845Z. PILOT WAS CALLED AIRBORNE TO TAKE A LOOK AT THESE STORMS DESPITE LIMITED INSTABILITY PER LATEST SPC MESO-ANALYSIS. PILOT GOT AIRBORNE JUST AFTER 19Z AND WILL HEAD DUE SOUTH OF PECOS. CONVECTION WAS SHORT LIVED AS EXPECTED, BUT ONE CLUSTER OF STORMS SEEMED TO BE DOING WELL RIGHT NEAR THE REEVES/PECOS COUNTY BORDER. WE'LL FOCUS ON THIS CELL. THIS CELL WAS EFFICIENTLY SEEDED THROUGH 1945Z BEFORE WE DECIDED TO DIVE FURTHER SOUTH WHERE MORE CONVECTION WAS COMING OFF OF THE MOUNTAINS. WATER VAPOR IMAGERY SHOWED A SHORTWAVE SPINNING UP OVER THE AREA OF SHOWERS SO ENHANCEMENT SHOULD BE SEEN SHORTLY. WE SEEDED THIS CELL UNTIL IT REACH HIGHWAY 67, WHERE THE TARGET AREA ENDS. THEREFORE, WE'LL TAKE A LOOK AT THE OTHER CLUSTER OF SHOWERS/STORMS WE SEEDED EARLIER AND SEE IF IT HAS ANY INFLOW LEFT. THIS STORM, HOWEVER, THIS CELL NO LONGER HAD INFLOW AND BECAME OUTFLOW DOMINATE. THE SEEDED CONVECTION WILL PUSH THROUGH THE LAST PORTION OF THE TARGET AREA BEFORE MOVING OUTSIDE OF THE TARGET AREA. MEANWHILE, THE REMAINING CONVECTION WAS JUST EAST OF 67 AND OUTSIDE OF THE TARGET AREA. WE DECIDED TO RTB FOR FUEL/FLARES AND GET READY FOR ANOTHER LAUNCH IF NEEDED. PILOT LANDED AT 2030Z AND WILL GET THE AIRCRAFT READY FOR FLIGHT AGAIN. METEOROLOGIST IS WATCHING AN ISOLATED CELL TO THE SOUTH SOUTHWEST OF PECOS. IF THIS CONVECTION SUSTAINS OVER THE NEXT FEW RADAR SCANS, WE'LL RELAUNCH WHEN READY.

WARNING/WATCHES:

None

SEEDED CELL ID'S:

378	441							
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FLIGHT INFORMATION:

TIME (Z)	Plane	Flare Location	County
1905	26P	IN AIR	
1925	26P	150° @ 24 nm	REEVES

1927	26P	145° @ 25 nm	PECOS
1930	26P	140° @ 26 nm	PECOS
1933	26P	140° @ 25 nm	PECOS
1936	26P	140° @ 26 nm	PECOS
1941	26P	135° @ 28 nm	PECOS
1942	26P	130° @ 27 nm	PECOS
1951	26P	140° @ 39 nm	PECOS
1952	26P	135° @ 39 nm	PECOS
1955	26P	140° @ 40 nm	PECOS
1959	26P	130° @ 40 nm	PECOS
2001	26P	130° @ 39 nm	PECOS
2015	26P	RTB	

Seeding operations were conducted in Reeves (2) and Pecos (23) Counties. 25 flares were burned within 2 clouds. This is the 1st day for seeding in July and the 3rd day for seeding during the season.