

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

SEEDING REPORT - September 25, 2017

SYNOPTIC/MESOSCALE CONDITIONS:

Strong upper trough remains over the four corners region keeping much of West Texas under southwesterly flow aloft. Additionally, strong shortwaves embedded in the flow aloft will move over the region today resulting in continued rain chances. Moisture is being advected into the area from both the Gulf and Pacific adding plenty of fuel to the system for heavy rainfall. Latest radar imagery shows a cluster of showers and storms over the Edwards Plateau with another band over much of Upton County. Much of this activity is moving to the northeast slowly. The latest HRRR expands this convection across the Concho Valley today resulting in heavy showers and a few embedded thunderstorms. Over the Trans-Pecos, isolated showers and storms will develop once again today before moving off to the east.

LIFTING MECHANISM:

Strong Dynamics Aloft

THERMODYNAMIC INDICES (12Z KMAF)

Freezing Level (m)	4517	CAPE (J/Kg)	740
Precipitable Water (inches)	1.51	CINH (J/Kg)	17
LCL	3642	LI(°C)	-2.2
CCL	1872	PB	2
MAF ICA	-4.96	DRT ICA	-
Cloud Base (meters)	2438	Cloud Base Temp (°C)	14
Warm Cloud Depth (meters)	2079		

DISCUSSION:

THROUGH 18Z ANALYSIS, SAT IMAGERY WAS RATHER CALM WITH ONLY A FEW TOWERING CU OVER THE DAVIS MOUNTAINS. A FEW OF THESE CLOUDS DID MOVE OVER THE PLAINS NEW BALMOREAH BUT QUICKLY FELL APART. WITH SOME MORE HEATING, WE COULD SEE ISOLATED STORMS FIRE WITHIN AN AREA FROM PECOS TO FORT STOCKTON TO BALMOREAH BACK TO PECOS. HOWEVER, AS OF 19Z, NOTHING WAS SEEDABLE JUST YET. CONDITIONS REMAINED MARGINAL THROUGH 2030Z, BUT A LINE FROM NEAR COYANOSA TO BALMOREAH BEGAN TO TAKE SHAPE. THEREFORE, PILOT WAS CALLED AIRBORNE AND WE'LL INVESTIGATE THIS AREA. PILOT GOT AIRBORNE AND HEADED SOUTH TOWARDS STORM #5406. MEANWHILE, POTENTIAL TARGET IN CULBERSON COUNTY WAS WARNED SO WE'LL HAVE TO STAY AWAY FROM THAT. STORM #5293 WAS SEEDED AT 2058Z AND CONTINUED THROUGH 2109Z. HOWEVER, STORM WAS GETTING VERY ROUGH SO WE DECIDED TO PULL OFF. REGARDLESS, OUR EFFORTS SEEMED TO HAVE DONE SOMETHING AS DBZ/VIL/PFLUX WERE ALL INCREASED RAPIDLY. PILOT TRIED TO GET BACK INTO THAT AREA BUT STORM WAS BECOMING DANGEROUS. ON TOP OF THAT, COMMUNICATION WAS NOT WORKING SO WE'LL RTB QUICKLY TO SEE IF WE CAN GET THIS FIXED. WE FELT LIKE WE FIXED THE COM ISSUES, SO PILOT IS GOING BACK UP AND WILL HEAD ESE OF PECOS BACK TO THE MAIN LINE OF STORMS. THIS AREA, HOWEVER, BECAME SEVERE WARNED. SO, WE'LL HAVE TO PULL OF THAT. WE DECIDED TO DIVE FURTHER SOUTH INTO WESTERN PECOS COUNTY TO SEE IF WE CAN DO ANY WORK DOWN THERE. THIS CELL WAS HEAVILY EMBEDDED SO WE HAD TO MOVE ON. WE'LL TAKE A LOOK AT A CELL NEAR THE I-10/I-20 SPLIT BEFORE RTB. THIS STORM ALSO DID NOT PRODUCE ANY SEEDABLE CONDITIONS. WITH EVERYTHING ELSE WARNED, WE'LL RTB AND CALL IT A DAY.

WATCHES/WARNINGS:

T-STORM WARNING - CULBERSON
T-STORM WARNING - PECOS/WARD

SEEDED CELL ID'S:

5293								
------	--	--	--	--	--	--	--	--

FLIGHT INFORMATION:

TIME (Z)	Plane	Flare Location	County
----------	-------	----------------	--------

2040	26P	IN AIR	
2058	26P	140° @ 15 nm	REEVES
2101	26P	140° @ 15 nm	REEVES
2104	26P	140° @ 15 nm	REEVES
2109	26P	140° @ 15 nm	REEVES
2120	26P	RTB	
2135	26P	IN AIR	
2200	26P	RTB	

Seeding operations were conducted over Reeves (7) County. 7 flares were burned within 1 clouds. This is the 2nd day for seeding in September and the 10th day for seeding during the season.