TRANS-PECOS WEATHER MODIFICATION ASSOCIATION – PECOS, TEXAS

SEEDING REPORT – June 28, 2016

SYNOPTIC/MESOSCALE CONDITIONS:
The upper level low that has had a large influence on our weather the last few days is finally pushing west of both target areas. A few showers remain in place across parts of northwestern Reeves County into Culberson County. Otherwise, much of the area is dry. Today, a cold front is expected to dive south into The Concho Valley early this afternoon. Showers and thunderstorms look to accompany this boundary coming in from the northeast. The HRRR is very aggressive with shower and t-storm development while the WRF is a bit more conservative. Also, the WRF keeps much of the convection east of the area. The ECWMF seems to be in line with the WRF as does the GFS. Therefore, I'll lean closer to the WRF solution and only run with slight rain chances for the WTWMA eastern target area. Further west, high terrain convection is expected as usual but it appears much of the development will be snug to the mountains.

LIFTING MECHANISM:
Upper Level Low

THERMODYNAMIC INDICES (12Z KMAF)

Freezing Level (m)	4821	CAPE (J/Kg)	200
Precipitable Water (inches)	1.37	CINH (J/Kg)	58
LCL	1399	LI(°C)	-2.0
CCL	2570	PB	2
MAF ICA	-0.96	DRT ICA	-3.52
Cloud Base (meters)	2438	Cloud Base Temp (°C)	14
Warm Cloud Depth (meters)	2383		

DISCUSSION:
REMNANTS OF THE UPPER LEVEL LOW ALLOWED FOR EARLY AFTERNOON CONVECTION ALONG THE FRONT RANGE OF THE DAVIS MOUNTAINS. MUCH OF THIS WAS OCCURING UNDER OVERCAST SKIES WITH VERY LOW BASES. SURFACE OBS SHOWED BASES AROUND 3KFT, SIMPLY TOO LOW TO FLY ON SO CLOSE TO THE MOUNTAINS. THE CONDITIONS WILL BE MONITORED THROUGH THE 17Z HOUR TO SEE IF CONDITIONS IMPROVED. SO FAR, CONVECTION WAS SHORT LIVED AND PULSATING, BUT WITH ADDITIONAL HEATING, WE COULD LAUNCH ANYTIME AROUND 18Z. ANALYSIS AT 1750Z SHOWED CONVECTION BECOMING MORE SINGLE CELL WITH BETTER VISIBILITY. ADDITIONALLY, CONVECTION PULLED AWAY FROM THE MOUNTAINS SO WE SHOULD HAVE A BETTER ENVIRONMENT. PILOT WAS CALLED AIRBORNE AT 1750Z AND SHOULD LAUNCH AROUND 1815Z. STORM WAS SEEDED FROM NW REEVES COUNTYS SE JUST NEAR PECOS. HOWEVER, A LOT OF VIRGA WRAPPED PARTS OF THE STORM SO INFLOW WAS SPOTTY AND TOUGH TO FIND. WE'LL GO CHECK OUT SOME NEWER SINGLE CELL CONVECTION TRYING TO DEVELOP CLOSER TO PECOS, BUT RADAR TRENDS ARE NOT THAT PROMISING JUST YET. WITH LIMITED INFLOW AND CONVECTION WINDING DOWN A LOT, WE DECIDED TO RTB AT 1940Z FOR FUEL/FLARES. WE'LL CONTINUE TO MONITOR CONDITIONS THROUGH THE REST OF THE DAY. THROUGH THE 21Z HOUR, IT WAS OBVIOUS NO MORE DEVELOPMENT WAS GOING TO OCCUR.

WARNING/WATCHES:
None

SEEDED CELL ID'S:

457	2083								

FLIGHT INFORMATION:

TIME (Z)	Plane	Flare Location	County
1810	26P	IN AIR	
1840	26P	280° @ 26 nm	REEVES
1855	26P	270° @ 16 nm	REEVES
1859	26P	260° @ 10 nm	REEVES

1919	26P	180° @ 23 nm	REEVES
1940	26P	RTB	

Seeding operations were conducted Reeves (8) County. 8 flares were burned within 2 clouds. This is the 2nd day for seeding in June and the 2nd day for seeding during the season.