

TRANS-PECOS WEATHER MODIFICATION ASSOCIATION - PECOS, TEXAS

SEEDING REPORT - July 8, 2016

SYNOPTIC/MESOSCALE CONDITIONS:

More intense heating is expected across the Trans-Pecos with highs in the 104-108°F range. MOS GFS is suggesting a bit more moisture advection occurring today which should help lower afternoon cu field. Upslope flow along the mountains should once again help develop afternoon showers and storms with some storms moving over the adjacent plains into Pecos and Reeves Counties. Additional development is possible over the mountains of Culberson County. With a shortwave expected to move over the area late in the afternoon, we could see widespread shower and storm development sometime at 20Z and especially by 22Z. Likely rain chances will stay in the forecast for today, especially areas west of a line from Crane to Fort Stockton.

LIFTING MECHANISM:

Sufficient Surface Heating

THERMODYNAMIC INDICES (12Z KMAF)

Freezing Level (m)	5019	CAPE (J/Kg)	120
Precipitable Water (inches)	1.31	CINH (J/Kg)	429
LCL	1900	LI(°C)	-1.3
CCL	4136	PB	1
MAF ICA	1.32	DRT ICA	-
Cloud Base (meters)	3657	Cloud Base Temp (°C)	6
Warm Cloud Depth (meters)	1362		

DISCUSSION:

HIGH CLOUDS KEPT THINGS QUIET THROUGH THE 19Z HOUR. HOWEVER, A FEW STORMS DID POP UP IN DAVIS AND BREWSTER COUNTIES BUT STAYED OVER THE MOUNTAINS. MEANWHILE, ISOLATED CONVECTION TRIED TO FIRE IN PARTS OF PECOS AND CULBERSON COUNTIES. THE STORM IN PECOS COUNTY FELL APART VERY FAST BUT THOSE IN CULBERSON ARE MAINTAINING. THEREFORE, PILOT WAS CALLED TO AIR AT 2030Z AND WILL HEAD THAT WAY. PILOT GOT AIRBORNE AT 2045Z AND HEADED DUE WEST. WE INTERCEPTED THE FIRST STORM AND BEGAN SEEDING IMMEDIATELY. HOWEVER, INFLOW ONLY LASTED A SHORT TIME. THEREFORE, WE PUSHED FURTHER NE TOWARDS LOVING COUNTY, BUT ONCE AGAIN INFLOW WAS HARD TO COME BACK. THE MAIN ISSUE OUT WEST WAS HIGH CLOUD DECK KEEPING CONDITIONS BELOW THE CONVECTIVE TEMPERATURES REDUCING THE AMOUNT OF SEEDABLE ACTIVITY. FINALLY, WE DECIDED TO MOVE SE TOWARDS FORT STOCKTON. WE SEEDED A STORM JUST W OF FORT STOCKTON ALONG THE FAR EASTERN EDGE OF THE TARGET AREA. THIS STORM PRODUCED FOR US BUT SLID TO FAR EAST FOR SEEDING TO CONTINUE. PILOT WILL HEAD BACK TOWARDS PECOS WHERE SOME ISOLATED CONVECTION WAS TRYING TO DEVELOP, BUT LOW ON FUEL WE'LL SEE IF THIS CONVECTION IS WORTH OUR TIME OR IF WE RTB FOR FUEL. BY 2245Z, IT WAS APPARENT WE NEEDED TO RTB AS ANY OTHER CONVECTION WAS NOT WORTH ADDITIONAL TIME.

ADDITIONAL NOTES:

Per management, a 20-mile radius around Cayanosa should not be seeded, as well as any storms that may impact that area from any direction. Farmers will be harvesting over the next 2 weeks and requested this.

WARNING/WATCHES:

None

SEEDED CELL ID'S:

399	793								
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FLIGHT INFORMATION:

TIME (Z)	Plane	Flare Location	County
2045	26P	IN AIR	
2121	26P	260° @ 24 nm	CULBERSON

2125	26P	280° @ 24 nm	CULBERSON
2131	26P	300° @ 21 nm	CULBERSON
2218	26P	120° @ 40 nm	PECOS
2220	26P	120° @ 41 nm	PECOS
2221	26P	120° @ 40 nm	PECOS
2223	26P	120° @ 39 nm	PECOS
2245	26P	RTB	

Seeding operations were conducted in Culberson (6) and Pecos (8) Counties. 14 flares were burned within 2 clouds. This is the 3rd day for seeding in July and the 5th day for seeding during the season.