

TRANS-PECOS WEATHER MODIFICATION ASSOCIATION - PECOS, TEXAS

SEEDING REPORT - August 11, 2016

SYNOPTIC/MESOSCALE CONDITIONS:

Cool weather is on its way but first we still have two more hot days to get through. Upper ridging will continue allowing for temperatures to be in the upper 90's to low 100's across both target areas. We will see more cloud coverage across the Trans-Pecos today holding highs into the upper 90's, but much like yesterday we'll see temperatures heat up quickly across the Concho Valley. Rain chances look similar to yesterday. We'll have some isolate convection out there, but it'll be very marginal and short lived. The best chance for rainfall will be across the Permian Basin and western Concho Valley, although some higher terrain convection cannot be ruled out. I'll leave slight rain chances in for both target areas today though the expectation is the majority of folks will stay dry.

LIFTING MECHANISM:

SUFFICIENT SURFACE HEATING, UPPER LEVEL SHORTWAVE

THERMODYNAMIC INDICES (12Z KMAF)

Freezing Level (m)	5217	CAPE (J/Kg)	184
Precipitable Water (inches)	1.58	CINH (J/Kg)	157
LCL	1515	LI(°C)	-1.2
CCL	2899	PB	1
MAF ICA	-3.68	DRT ICA	-1.8
Cloud Base (meters)	3048	Cloud Base Temp (°C)	12
Warm Cloud Depth (meters)	2169		

DISCUSSION:

ISOLATED SHOWERS WERE ON AND OFF THROUGH MUCH OF THE AFTERNOON, BUT BY 2130Z, A FEW STORMS BEGAN TO FIRE ACROSS THE EASTERN TARGET AREA. PILOT WAS CALLED AIROBORNE TO TAKE A LOOK, ESPECIALLY NEAR COYANOSA. PILOT APPROACHE FIRST STORM BY 2215Z BUT COULD NOT FIND ANY INFLOW. WE BACKED TO THE WEST A BIT WHERE STORMS WERE FIRING OFF OF THE OUTFLOW BOUNDARY FROM THE INITIAL STORM AND HAD BETTER LUCK. SEEDING STARTED AT 2230Z IN EASTERN REEVES COUNTY. A FEW STORMS WERE SEEDED ALONG THE PECOS/REEVES COUNTY BORDER BEFORE MOVING SE INTO PECOS COUNTY SW OF FORT STOCKTON. THIS CELL WAS SEEDED THROUGH 22Z BEFORE PUSHING TO THE EDGE OF THE TARGET AREA. WE'LL NOW HEAD BACK NW TO THE WEST OF COYNAOSA. THESE CELLS, HOWEVER, DID NOT PROVIDE ANY INFLOW SO WE WRAPPED UP THE MISSION AT 2315Z.

WARNING/WATCHES:

None

SEEDED CELL ID'S:

1121	514	377							
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FLIGHT INFORMATION:

TIME (Z)	Plane	Flare Location	County
2200	26P	IN AIR	
2230	26P	130° @ 26 nm	REEVES
2233	26P	125° @ 27 nm	REEVES
2235	26P	125° @ 27 nm	REEVES
2236	26P	125° @ 27 nm	REEVES
2239	26P	125° @ 27 nm	PECOS
2249	26P	135° @ 34 nm	PECOS
2251	26P	130° @ 34 nm	PECOS
2256	26P	135° @ 40 nm	PECOS
2315	26P	RTB	

Seeding operations were conducted Reeves (8) and Pecos (8) Counties. 16 flares were burned within 3 clouds. This is the 4th day for seeding in August and the 10th day for seeding during the season.