

WEST TEXAS WEATHER MODIFICATION ASSOCIATION - SAN ANGELO, TEXAS

SEEDING REPORT - July 24, 2017

SYNOPTIC/MESOSCALE CONDITIONS:

Upper level ridging remains across the region, however, at the base of this ridge several shortwaves are present and will remain present throughout the day. These favorable upper level conditions will work in conjunction with sufficient surface moisture where dew points across both the Concho Valley and Trans-Pecos are in 60's. A batch of showers is already ongoing to the east of the San Angelo, but this is expected to dissipate through the morning. As conditions heat up, we'll see isolated showers and storms begin to develop, especially across the eastern edges of the Concho Valley. The Trans-Pecos will see isolated storms, but coverage will be much less than the Concho Valley. Storm chances appears best east of a line from Robert Lee to Ozona, but especially east of San Angelo to Sonora. Likely rain chances will continue today with slight rain chances for the Trans-Pecos.

LIFTING MECHANISM:

Sufficient Surface Heating

THERMODYNAMIC INDICES (12Z KMAF)

Freezing Level (m)	4811	CAPE (J/Kg)	175
Precipitable Water (inches)	1.56	CINH (J/Kg)	122
LCL	1516	LI(°C)	-2.6
CCL	2998	PB	2
MAF ICA	0.04	DRT ICA	-2.52
Cloud Base (meters)	2834	Cloud Base Temp (°C)	9.2
Warm Cloud Depth (meters)	1977		

DISCUSSION:

QUIET WEATHER CONDITIONS THROUGH 17Z BUT AS WE HEAD INTO THE 18Z HOUR A FEW CU DID BEGIN TO DEVELOP. HOWEVER, IT WASN'T UNTIL ABOUT 1850Z WHERE CU BEGAN TO GROW VERTICALLY. PILOT WAS CALLED AND GOT AIRBORNE AT 1925Z AS WE'LL HEAD WEST INTO WESTERN IRION COUNTY. DEVELOPMENT SHOULD BE PRETTY WIDESPREAD WITH CU FIELD DEVELOPING ACROSS IRION/REAGAN COUTNIES, NORTH INTO STERLING COUNTY AND SOUTH INTO SUTTON COUNTY. SECOND PILOT IS ON STANDBY IF NEEDED. SO FAR, ANY DEVELOPMENT HAS BEEN VERY SHORT LIVED, EVEN THE DEVELOPMENT IN NORTHERN STERLING COUNTY. FIRST CELL PRODUCED NOTHING AS FAR AS INFLOW. WE'LL HEAD BACK EAST TOWARDS CARLSBAD WHERE STRONGER DEVELOPMENT WAS TAKING PLACE. STILL, RADAR TRENDS WERE NOT PROMISING DESPITE VERY STRONG SATELLITE IMAGERY FEEDBACK. WE DID FIND SOME INFLOW IN THE STORM NEAR CARLSBAD, BUT REGARDLESS, EVERYTHING WAS QUICKLY DEVELOPING AND DISSIPATING JUST AS FAST. WE'LL SEE WHAT WE CAN DO WITH THIS POP UP CONVECTION. IF WE CAN GET ONE STORM TO RESPOND, IT'LL BE WORTH THE EFFORT. ONE MORE CELL WAS SEEDED NEAR MERTZON, BUT QUICKLY FELL APART. WE WILL CONTINUE OUR EFFORTS BUT ONCE AGAIN, RADAR IMAGERY IS NOT PROMISING. WITHOUT A SURFACE FEATURE, AND RIDGE TRYING TO BUILD BACK OVER THE REGION, THESE STORMS ARE REALLY STRUGGLING. WE DID SEED A FEW MORE AREAS THROUGH THE 20Z HOUR, BUT NOTHING WAS RESPONDING AND SKIES WERE BECOMING VERY OVERCAST. PILOT WAS CALLED RTB BUT WE'LL MONITOR RADAR TRENDS FOR A SECOND LAUNCH IF NEEDED.

WATCHES/WARNINGS:

N/A

SEEDED CELL ID'S:

1388	1386	1495	1671						
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FLIGHT INFORMATION:

TIME (Z)	Plane	Flare Location	County
1920	24P	IN AIR	

2001	24P	253° @ 27 nm	TOM GREEN
2024	24P	248° @ 26 nm	IRION
2034	24P	240° @ 26 nm	IRION
2036	24P	225° @ 23 nm	IRION
2051	24P	216° @ 24 nm	IRION
2100	24P	RTB	

Seeding operations were conducted in Irion (8) and Tom Green (2) Counties. 10 flares were burned within 4 clouds. This is the 7th day for seeding in July and the 17th day for seeding during the season.