

WEST TEXAS WEATHER MODIFICATION ASSOCIATION - SAN ANGELO, TEXAS

SEEDING REPORT - May 19, 2017

SYNOPTIC/MESOSCALE CONDITIONS:

A weak cold front is making its way through the area this morning with widely scattered showers and storms just off to the north of the area. A band of additional showers and storms extends southwest into Sterling, Irion and Reagan Counties. Latest radar trends show convection enhancing over Sterling County. With flood warming already in place for Howard and Mitchell Counties, we will likely see another for Sterling this morning. This band of showers will push east of the area by noon, but a few isolated storms may be possible within Schleicher/Sutton Counties. I'll keep likely rain chances in the forecast to account for this morning's activities and mention additional rain chances for this afternoon.

LIFTING MECHANISM:

Dryline, Upper Level Dynamics

THERMODYNAMIC INDICES (12Z KMAF)

Freezing Level (m)	4336	CAPE (J/Kg)	1
Precipitable Water (inches)	0.31	CINH (J/Kg)	52000
LCL	5151	LI(°C)	0
CCL	6360	PB	0
MAF ICA	-1.4	DRT ICA	-1.8
Cloud Base (meters)	2337	Cloud Base Temp (°C)	12
Warm Cloud Depth (meters)	1999		

DISCUSSION:

SHOWERS AND STORMS WERE ONGOING THIS MORNING BUT WERE ADVANCING OUT OF THE TARGET AREA TO THE NORTH AND EAST. HOWEVER, A STRAY STORM DID DEVELOP BEHIND THE MAIN SYSTEM IN GLASSCOCK/REAGAN COUNTIES. THIS CELL MOVED NE INTO STERLING COUNTY BUT WITH IFR CONDITIONS STILL IN PLACE, WE COULD NOT LAUNCH. CLOUDS BEGAN TO FINALLY BREAKUP AROUND 1630Z BUT T/DP SPREAD WAS ONLY A FEW DEGREES IN STERLING COUNTY. WE FINALLY DECIDED TO LAUNCH AT 1655Z AND HEAD TO STERLING COUNTY WHERE THE STORM WAS BACK BUILDING AND BECOMING MORE EFFICIENT. ADDITIONALLY, WE GOT THE CLEAR TO TAKE OFF AS VFR CONDITIONS FINALLY WERE IN PLACE. THIS STORM BECAME SEVERE WARNED SO WE'LL HAVE TO TREAD CAREFULLY, ESPECIALLY WITH BASES < 4KFT. AS PILOT APPROACHED STORM, VISIBILITY WAS VERY LIMITED AND STORM BASES WERE 2.5KFT. WE'LL PUSH A BIT FURTHER WEST WHERE BETTER HEATING WAS IN PLACE, MAYBE ALLOWING CLOUDS TO LIFT A BIT. AFTER TRYING TO PUSH WEST, PILOT HAD TO ABORT FOR MINOR AIRCRAFT ISSUE THAT HAD TO BE ADDRESSED. HE'LL ADDRESS IT AND WE'LL RELAUNCH IF NEEDED. ALTHOUGH RADAR IMAGERY WAS NOT SHOWING ANYTHING WITHIN THE TARGET AREA, AN AGIGATED CU FIELD WAS DEVELOPING WITHIN AN UNSTABLE AIRMASS. WE'LL RELAUNCH AND TAKE A LOOK AT THIS POSSIBLY CONVECTION AS THE INITIAL STORM IS NOW OUT OF THE AREA. ONE CELL DID POP UP BUT FELL APART AS FAST AS IT DEVELOPED. WE DID WORK A FEW CLOUDS ON AN OUTFLOW BOUNDARY THAT WERE NOT YET ON RADAR. WE'LL SEE HOW THESE DEVELOP AS SOME GOOD INFLOW IS BEING FOUND. DESPITE THE SEEDING EFFORTS, NOTHING DEVELOPED THROUGH THE 18Z HOUR AND INTO THE 19Z HOUR. SAT IMAGERY WAS NOT PRODUCING ANYTHING NOTEWORTHY SO WE RTB'D TO FUEL/FLARE AND WAIT ON BETTER CONVECTION. WHILE PILOT WAS FUELING/FLARING, A CELL DEVELOPED JUST W OF DUCOTE. PILOT COULD NOT GET AIRBORNE W/STORM DIRECTLY OVERHEAD. WE'LL HAVE TO WAIT THIS ONE OUT, UNFORTUNATELY.

WATCHES/WARNINGS:

T-STORM WARNING - STERLING
TORNADO WATCH - IRION/STERLING/TOM GREEN
T-STORM WARNING -TOM GREEN

SEEDED CELL ID'S:

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FLIGHT INFORMATION:

TIME (Z)	Plane	Flare Location	County
1730	24P	IN AIR	
1800	24P	LANDED	
1825	24P	In Air	
1842	24P	291° @ 15 nm	IRION
1843	24P	294° @ 16 nm	IRION
1845	24P	299° @ 15 nm	IRION
1847	24P	300° @ 15 nm	IRION
1915	24P	RTB	

Seeding operations were conducted over Irion (8) County. 8 flares were burned within 1 cloud. This is the 1st day for seeding in May and the 3rd day for seeding during the season.