

WEST TEXAS WEATHER MODIFICATION ASSOCIATION - SAN ANGELO, TEXAS

SEEDING REPORT - July 4, 2018

SYNOPTIC/MESOSCALE CONDITIONS:

Tropical easterly wave will bring plenty of showers and storms to parts of East and Central Texas. This system will track west throughout the day and could advance as far east as Eldorado and Sonora by late this evening. Showers and storms will be more plentiful across South Texas and the Hill Country, but a few showers/storms cannot be ruled out for Schleicher and Sutton Counties as well as the Edwards Plateau. I will keep slight rain chances in the forecast for those areas today and tonight.

LIFTING MECHANISM:

Strong Moisture Advection

THERMODYNAMIC INDICES (12Z KMAF)

Freezing Level (m)	4931	-15°C Height (m)	7400
Precipitable Water (inches)	1.10	CAPE (J/Kg)	40
LCL	2284	CINH (J/Kg)	392
CCL	4115	LI(°C)	-0.4
MAF ICA	2.32	PB	1
Cloud Base (meters)	3048	DRT ICA	-3.52
Warm Cloud Depth (meters)	1883	Cloud Base Temp (°C)	4.5

DISCUSSION:

Tropical easterly wave brought showers and storms to the eastern Concho Valley by 5PM. These stayed east off a line from Eden to Junction. However, by 2245Z, storms were firing up in eastern Schleicher and Tom Green Counties. Pilot tried to quickly get airborne but was held off due to strong cross winds from a newly developing storm per the SJT tower. We will have to wait some time before we can get airborne. Pilot finally got cleared at 2330Z and took off at 2340Z. We will stick on the storm responsible for the delay as it was the most seedable candidate. Other convection was heavily embedded, but we hope to take a look at storms in Schleicher and possible northern Tom Green/southern Sterling Counties. Pretty much all convection was pretty embedded, but we will try to sneak in and see if we can find some inflow. We were able to seed the storm in western Tom Green County sufficiently into the 0000Z hour. We pushed southeast into Schleicher County where another storm located but it was heavily embedded. Still, we'll give it a good look. Meanwhile, I'll be keeping an eye on an outflow boundary which is popping up small storms in northern Irion/southern Sterling Counties. This cell was too heavily embedded, so we focused on the storms along the outflow boundary. However, these were quick to dissipate each time we neared them. We'll give one more a shot before we call it in northeastern Irion County. This cell was seeded heavily before we had to RTB as we pushed into the 01Z hour. Response from the cell seemed positive as we hit it before it was identified by TITAN.

WATCHES/WARNINGS:

None

SEEDED CELL ID'S:

979	1612								
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FLIGHT INFORMATION:

TIME (Z)	Plane	Flare Location	County
2340	24P	IN AIR	
2354	24P	219° @ 12 nm	Tom Green
2355	24P	216° @ 11 nm	Tom Green
2358	24P	214° @ 13 nm	Tom Green
0000	24P	212° @ 13 nm	Tom Green
0044	24P	283° @ 35 nm	Sterling

0047	24P	285° @ 36 nm	Sterling
0048	24P	285° @ 36 nm	Sterling
0052	24P	285° @ 37 nm	Sterling
0053	24P	283° @ 37 nm	Sterling
0100	24P	RTB	

Seeding operations were conducted over Tom Green (8) and Sterling (10) Counties. 18 flares were burned within 2 clouds. This is the 2nd day for seeding in July and the 11th day for seeding during the season.