

WEST TEXAS WEATHER MODIFICATION ASSOCIATION - SAN ANGELO, TEXAS

SEEDING REPORT - June 17, 2023

SYNOPTIC/MESOSCALE CONDITIONS:

A dryline will set up across the area across eastern parts of the target area this afternoon. Placement of the boundary will be key as to where convection will develop. CAPE values will be in excess of 4k J/Kg with steep lapse rates and solid 0-6km bulk shear values. This should result in a few severe storms where convection does develop. Latest HRRR shows storms firing between 5 and 8PM across areas along and east of a Sweetwater to Ozona line.

LIFTING MECHANISM:

Dryline

THERMODYNAMIC INDICES (12Z KMAF)

Freezing Level (m)	4803	-15°C Height (m)	6700
Precipitable Water (inches)	0.87	CAPE (J/Kg)	264
LCL	1654	CINH (J/Kg)	435
CCL	4459	LI (°C)	-2.0
MAF ICA	8.04	PB	2
Cloud Base (meters)	3389	DRT ICA	3.08
Warm Cloud Depth (meters)	1414	Cloud Base Temp (°C)	11

DISCUSSION:

Storms fired up just prior to 23Z south of San Angelo. This created outflow that resulted in a dust storm across SJT. This kept pilots grounded until around 2330Z when vis was good enough to launch. We'll head due west towards Barnhart/Big Lake where a cell was moving into the area. The pilot arrived at the cell and began seeding just prior to 00Z. With a proper dosage in place and heavy rain ongoing over Barnhart, we'll shift to the southwest towards Crockett County and look at one more cell. This cell was not looking as favorable as we approached 0010Z. Telemetry went off on us as we dove south. Telemetry was fixed quickly, so we are back in business. Storm was seeded towards the 0030Z hour with a proper dosage. With it getting later, and darker, we'll have to RTB soon. We'll get a few more flares in this cell and track back to SJT.

WATCHES/WARNINGS:

N/A

SEEDED CELL ID'S:

722	846								
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FLIGHT INFORMATION:

TIME (Z)	Plane	Flare Location	County
2330	09P	IN AIR	
2348	09P	250° @ 30 nm	IRION
2353	09P	250° @ 31 nm	IRION
2354	09P	249° @ 32 nm	IRION
2355	09P	247° @ 30 nm	IRION
2356	09P	249° @ 30 nm	IRION
2359	09P	246° @ 28 nm	IRION
0016	09P	237° @ 58 nm	CROCKETT
0019	09P	240° @ 59 nm	CROCKETT
0018	09P	240° @ 60 nm	CROCKETT
0019	09P	240° @ 61 nm	CROCKETT
0030	09P	RTB	

Seeding operations were conducted over Irion (12G+2.25H) and Crockett (8G+2H) Counties. 20 glaciogenic flares and 4.5 hygroscopic flares were burned within 2 clouds. This is the 2nd day for seeding in June and the 14th day for seeding during the season.