

WEST TEXAS WEATHER MODIFICATION ASSOCIATION - SAN ANGELO, TEXAS

SEEDING REPORT - August 10, 2023

SYNOPTIC/MESOSCALE CONDITIONS:

High pressure aloft is in place across the region. However, the ridge has pushed a bit further north allowing for shortwave activity to possibly ride over the region on the southern periphery. This could lead to very isolated showers later this afternoon and evening where a moderately unstable atmosphere develops. Will keep very slight rain chances in place as a result.

LIFTING MECHANISM:

Dryline

THERMODYNAMIC INDICES (12Z KMAF)

Freezing Level (m)	4975	-15°C Height (m)	7600
Precipitable Water (inches)	1.14	CAPE (J/Kg)	334
LCL	1784	CINH (J/Kg)	286
CCL	3533	LI (°C)	-0.9
MAF ICA	-1.68	PB	1
Cloud Base (meters)	3200	DRT ICA	-4.52
Warm Cloud Depth (meters)	1775	Cloud Base Temp (°C)	12

DISCUSSION:

Isolated showers were ongoing across parts of the area into 21Z. Per sat imagery, bases looked rather high but 22Z analysis showed much better conditions. Pilots were called airborne and were quickly launched to Sterling County where we'll work from NW to SE. Seeding began in just before 2230Z in eastern Sterling County with a higher dosage due to the storm nearing the edge of the target area. This area was worked just past the 2230Z period with a small response. We'll now dive to the south into northern parts of Irion and Tom Green Counties and work on these areas as they are starting to look promising. Telemetry has not yet worked but is still being worked on. Pilots will wrap around the west side of the cell in NE Irion County and work their way to the east. Inflow was spotty, but good enough for work. We'll lower the dosage back down as we'll be able to spend more time on these cells. Once we got to the southeast corner, the inflow was a bit better, so we were able to get a dosage of hygroscopic material out. Just after 2250Z, pilots got between two cells and found solid inflow here. We'll continue to push our way east and around the furthest eastern storm in Tom Green County. We'll get a few more flares out here before we RTB as cells are nearing the airport. By 2305, cells were very close to the airport, so we did RTB>

WATCHES/WARNINGS:

N/A

SEEDED CELL ID'S:

143	142	240							
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FLIGHT INFORMATION:

TIME (Z)	Plane	Flare Location	County
2215	09P	IN AIR	
2228	09P	314° @ 33 nm	STERLING
2230	09P	314° @ 33 nm	STERLING
2233	09P	314° @ 33 nm	STERLING
2241	09P	286° @ 23 nm	IRION
2244	09P	280° @ 19 nm	IRION
2246	09P	271° @ 19 nm	IRION
2247	09P	271° @ 19 nm	IRION
2249	09P	265° @ 15 nm	IRION
2250	09P	265° @ 15 nm	IRION
2253	09P	272° @ 15 nm	IRION

2255	09P	267° @ 12 nm	IRION
2259	09P	264° @ 10 nm	TOM GREEN
2302	09P	280° @ 08 nm	TOM GREEN
2305	09P	280° @ 08 nm	TOM GREEN
2306	09P	RTB	

Seeding operations were conducted over Sterling (9G+1H), Irion (15G+1H) and Tom Green (7G+1H) Counties. 31 glaciogenic flares and 3 hygroscopic flares were burned within 3 clouds. This is the 1st day for seeding in August and the 18th day for seeding during the season.