

WEST TEXAS WEATHER MODIFICATION ASSOCIATION - SAN ANGELO, TEXAS

SEEDING REPORT - June 3, 2023

SYNOPTIC/MESOSCALE CONDITIONS:

Southwesterly flow aloft remains in place across the region today through shortwave activity will be limited. Numerous outflow boundaries from convection yesterday are placed across the region. With the atmosphere being worked over, forecast models are all over the place. However, minimal dynamical forcing and surface support should only mean limited convection today. Will keep slight rain chances in place as a few storms cannot be ruled out.

LIFTING MECHANISM:

Remnant Outflow

THERMODYNAMIC INDICES (12Z KMAF)

Freezing Level (m)	3939	-15°C Height (m)	6500
Precipitable Water (inches)	1.33	CAPE (J/Kg)	868
LCL	2129	CINH (J/Kg)	60
CCL	2846	LI (°C)	-4.3
MAF ICA	5.2	PB	5
Cloud Base (meters)	3200	DRT ICA	2.64
Warm Cloud Depth (meters)	1560	Cloud Base Temp (°C)	17

DISCUSSION:

Isolated showers developed along a remnant boundary across southern Tom Green County and parts of northeastern Schleicher County. Development didn't warrant a launch as it was too short lived. By 21Z, sat imagery was looking much more favorable with some vertical development taking place. This, however, was not producing much on radar. With that said, we will launch and take a look at this development as SPC mesoanalysis showed some surface convergence in the area along with CAPE values in the 2-3k J/Kg range. The pilot headed to cell #168 just south of Mertzon. It was a marginal cell, but the southern side looked promising as far as the dbz gradient. The pilot arrived at the cell by 2130Z and began seeding. Radar imagery was looking good, but the pilot was reporting minimal rain shafts, but instead was getting hit randomly with small hail stones. After a few dosages, we decided to put more hygroscopic material in to see what happens. By 2150Z, radar was not looking good. However, we'll give the hygroscopic material a chance to take. Meanwhile, we'll move to the west of Mertzon and investigate a cloud there. The atmosphere simply was not too organized, and the cool air outflow boundary appeared to be mixing out. By 22Z, we decided to RTB.

WATCHES/WARNINGS:

N/A

SEEDED CELL ID'S:

168									
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FLIGHT INFORMATION:

TIME (Z)	Plane	Flare Location	County
2115	09P	IN AIR	
2133	09P	223° @ 27 nm	IRION
2135	09P	225° @ 26 nm	IRION
2139	09P	227° @ 25 nm	IRION
2143	09P	226° @ 25 nm	IRION
2146	09P	229° @ 27 nm	IRION
2200	09P	RTB	

Seeding operations were conducted over Irion (10G+2.25H) County. 10 glaciogenic flares and 2.25 hygroscopic flares were burned within X

clouds. This is the 1st day for seeding in June and the 13th day for seeding during the season.