WEST TEXAS WEATHER MODIFICATION ASSOCIATION – SAN ANGELO, TEXAS

SEEDING REPORT – May 28, 2023

SYNOPTIC/MESOSCALE CONDITIONS:
Upper-level ridge is in place across the region which should keep conditions quiet across the Rolling Plains and Trans-Pecos. Further to the west, ridge running shortwaves along the dryline could spark a few showers and storms where support aloft and sufficient low-level moisture can fuel development. Parameters are in place for severe storms across the Trans-Pecos into the Permian Basin before threatening western edges of the Concho Valley and Rolling Plains after sunset.

LIFTING MECHANISM:
Remnant Outflow

THERMODYNAMIC INDICES (12Z KMAF)

Freezing Level (m)	4320	-15°C Height (m)	6600
Precipitable Water (inches)	0.96	CAPE (J/Kg)	189
LCL	907	CINH (J/Kg)	411
CCL	3312	LI(°C)	-1.4
MAF ICA	0.32	PB	1
Cloud Base (meters)	1930	DRT ICA	-5.4
Warm Cloud Depth (meters)	2390	Cloud Base Temp (°C)	16

DISCUSSION:
Although an upper ridge was in place, enough low-level moisture was able to advect into the region and interact with remnant outflow boundaries to fire up a few showers/storms along 277 from San Angelo airport south into north central Schleicher County. **Pilot had to wait for a proper window to get airborne due to low vis from a dust storm, a newly developed storm over the airport, heavy rains, and high winds.** This cell is small, so we'll wait for it out and hopefully launch by 2130Z. By the time the pilot got clear to take off at 2135Z, storms to the south have become very marginal and possibly outflow dominate. We'll still head south and investigate. The pilot passed a few cells that were dissolving, but once we got into the southeast corner of Schleicher County, we began to find inflow in a decent cell. This area was seeded into the 22Z hour before it became outflow dominate again on the far eastern parts of Schleicher County. By 2220Z, it was apparent no more inflow would be found so we RTB'd.

WATCHES/WARNINGS:
N/A

SEEDED CELL ID'S:

268										

FLIGHT INFORMATION:

TIME (Z)	Plane	Flare Location	County
2135	**09P**	IN AIR	
2157	**09P**	146° @ 37 nm	**SCHLEICHER**
2158	**09P**	146° @ 37 nm	**SCHLEICHER**
2201	**09P**	148° @ 36 nm	**SCHLEICHER**
2203	**09P**	143° @ 37 nm	**SCHLEICHER**
2204	**09P**	145° @ 37 nm	**SCHLEICHER**
2212	**09P**	147° @ 42 nm	**SCHLEICHER**
2220	**09P**	RTB	

Seeding operations were conducted over Schleicher (12G+1.5H) County. 12 glaciogenic flares and 1.5 hygroscopic flares were burned within 2 clouds. This is the 10th day for seeding in May and the 12th day for seeding during the season.