## TRANS-PECOS WEATHER MODIFICATION ASSOCIATION - PECOS, TEXAS

# SEEDING REPORT - October 2, 2023

### SYNOPTIC/MESOSCALE CONDITIONS:

Southwesterly flow aloft ahead of a strong upper-level system will allow for favorable dynamical forcing across the region. Couple that with sufficient low-level moisture, we should see showers and storms fire up this afternoon around peak heating. CAPE values will be on the increase as we heat, and with steep lapse rates, a few severe storms cannot be ruled out. Will keep likely rain chances in place as a result.

## LIFTING MECHANISM:

Surface Boundary

# THERMODYNAMIC INDICES (12Z KMAF)

Freezing Level (m)	4591	-15°C Height (m)	7200
Precipitable Water (inches)	1.23	CAPE (J/Kg)	235
LCL	1300	CINH (J/Kg)	191
CCL	2997	LI(°C)	-0.8
MAF ICA	-4.68	PB	2
Cloud Base (meters)	2705	DRT ICA	_
Warm Cloud Depth (meters)	1857	Cloud Base Temp (°C)	14

#### DISCUSSION:

Showers and storms fired up over the higher terrain of the Davis and Glass Mountains through 19Z. Storms were ongoing outside of the target area through the hour but latest sat/rad imagery at 1945Z showed some promise over the target area. The pilot launched at 20Z and will head to the SW of Coyanosa to target a line of storms along the PC/RV county line. We'll ride the west edge as sat imagery showed clearer skies there. Meanwhile, MAF radar is not feeding into TITAN, so using Radar Scope as main radar source (will troubleshoot TITAN later). The pilot reported a lot of movement with the clouds, and plentiful low-level moisture. Things could get embedded, but we'll work the main cell in eastern Reeves County. Seeding began just after 2030Z on the NW side of the cell. Pilot wrapped around the west side to the south where seeding took place through 2040Z. We'll continue to wrap around it and get full area of the storm seeded. This area was seeded aggressively so we pushed west towards the I-10/I-20 split. Seeding was done here but the cell was underwhelming. We needed to get the pilot home at this point as the large cell was moving quickly towards Wink. We'll recover there and see if a round two is needed.

## WATCHES/WARNINGS:

T-STORM WARNING - PECOS (2135Z)

T-STORM WARNING - LOVING

T-STORM WARNING - LOVING/WINKLER

# SEEDED CELL ID'S:

RV1 RV2

FLIGHT INFORMA	ATION:		•		
TIME (Z)	Plane	Flare Location		County	
2000	26P	IN AIR			

TIME (Z)	Plane	Flare Location	County
2000	26P	IN AIR	
2031	26P	158° @ 12 nm	REEVES
2033	26P	159° @ 14 nm	REEVES
2036	26P	171° @ 17 nm	REEVES
2037	26P	174° @ 19 nm	REEVES
2040	26P	163° @ 22 nm	REEVES

2043	26P	165° @ 17 nm	REEVES
2046	26P	176° @ 13 nm	REEVES
2048	26P	165° @ 12 nm	REEVES
2050	26P	162° @ 09 nm	REEVES
2100	26P	246° @ 29 nm	REEVES
2102	26P	246° @ 29 nm	REEVES
2103	26P	246° @ 29 nm	REEVES
2105	26P	RTB	

Seeding operations were conducted over Reeves (24G+3H) County. 24 glaciogenic flares and 3 hygroscopic flares were burned within 2 clouds. This is the  $1^{\rm st}$  day for seeding in October and the  $17^{\rm th}$  day for seeding during the season.