TRANS-PECOS WEATHER MODIFICATION ASSOCIATION - PECOS, TEXAS

SEEDING REPORT - June 30, 2023

SYNOPTIC/MESOSCALE CONDITIONS:

A dryline is in place across Far West Texas into the Trans-Pecos region. The upper-ridge has broken down allowing for southwesterly flow aloft to develop over the region. This should provide enough support for the dryline to kick up a few showers and storms across the region this afternoon and evening. Will go with likely rain chances as a result.

LIFTING MECHANISM:

Dryline, Upper-Level Forcing

THERMODYNAMIC INDICES (12Z KMAF)

Freezing Level (m)	4955	-15°C Height (m)	7300
Precipitable Water (inches)	1.31	CAPE (J/Kg)	492
LCL	2018	CINH (J/Kg)	415
CCL	3713	LI(°C)	-0.8
MAF ICA	2.32	PB	1
Cloud Base (meters)	3152	DRT ICA	_
Warm Cloud Depth (meters)	1803	Cloud Base Temp (°C)	8

DISCUSSION:

Weak showers were ongoing into the 20Z hour, but with the shortwave well defined on water vapor imagery moving over the region, we should see convection ramp up in the next 20-30 minutes. Pilot is on standby in 24P. By 2025Z, we decided to launch as one cell east of Pecos was looking good in Ward County. This will be our first target. We'll work the west end of the cell as it spread north into Ward County. We'll put a proper dosage in here and then work to the south near Coyanosa and much of western Pecos County. This cell was seeded up to the 21Z hour before we pushed into NW Pecos County. We'll work this cell with a similar dosage as it appeared to work well on the Ward County storm. Second cell was seeded into 2115Z. Both cells merged and became much larger and more intense with the pilot reporting very heavy rainfall. We'll now dive south into Pecos County to the SW of Fort Stockton. We'll start just W of Fort Stockton and work our way SSW along the leading edge of cell #145. Meanwhile, cell #20 (merged with 136) became warned for Ward County. Cell was seeded well just W of Fort Stockton. We'll dive a bit further south and work the southern bow of the storm. This area was worked as we neared 2145Z. Therefore, we'll head back towards Fort Stockton for one last dosage before RTB. This area was reworked by 2150Z so we'll RTB as resources are out. All clouds have been seeded and pilot is enroute back to SJT as he provided coverage for the day. As we RTB'd warning came out for cell #145, so timing was good.

WATCHES/WARNINGS:

T-Storm Warning - Ward

T-Storm Warning - Pecos

SEEDED CELL ID'S:

136	20	145					

FLIGHT INFORMATION:

TIME (Z)	Plane	Flare Location	County
2035	24P	IN AIR	
2034	24P	049° @ 14 nm	WARD
2056	24P	070° @ 19 nm	WARD
2058	24P	070° @ 21 nm	WARD
2059	24P	074° @ 20 nm	WARD

2107	24P	091° @ 27 nm	PECOS
2108	24P	089° @ 26 nm	PECOS
2111	24P	096° @ 28 nm	PECOS
2112	24P	094° @ 30 nm	PECOS
2115	24P	092° @ 32 nm	PECOS
2132	24P	126° @ 37 nm	PECOS
2134	24P	140° @ 40 nm	PECOS
2136	24P	137° @ 38 nm	PECOS
2137	24P	137° @ 41 nm	PECOS
2140	24P	140° @ 46 nm	PECOS
2141	24P	141° @ 52 nm	PECOS
2143	24P	140° @ 52 nm	PECOS
2145	24P	139° @ 46 nm	PECOS
2147	24P	136° @ 42 nm	PECOS
2148	24P	132° @ 40 nm	PECOS
2150	24P	RTB	

Seeding operations were conducted over Ward (8G+1H) and Pecos (30G+2H) Counties. 38 glaciogenic flares and 3 hygroscopic flares were burned within 3 clouds. This is the $2^{\rm nd}$ day for seeding in June and the $9^{\rm th}$ day for seeding during the season.