

TRANS-PECOS WEATHER MODIFICATION ASSOCIATION - BARSTOW/PECOS, TEXAS

SEEDING REPORT - July 10, 2018

SYNOPTIC/MESOSCALE CONDITIONS:

Very moist atmosphere remains in place across both the Concho Valley and Trans-Pecos. Dew points this morning are in the upper 60's across the Trans-Pecos and into the 70's within the Concho Valley. This will provide plenty of fuel for shower and thunderstorms development this afternoon and evening. Showers and storms will be focused around a shortwave feature which will push through the Concho Valley and spread across the Trans-Pecos. The latest HRRR suggests that the shortwave will push through the Concho Valley too early for shower/storm development but be active for storms across the Trans-Pecos. However, shower activity cannot be ruled out for the Concho Valley. I will mention slight chance of showers in the forecast but leave out storms as upper level support simply will not be there. However, storms will be likely for the Trans-Pecos.

LIFTING MECHANISM:

Strong Moisture Advection

THERMODYNAMIC INDICES (12Z KMAF)

Freezing Level (m)	4723	-15°C Height (m)	7400
Precipitable Water (inches)	1.66	CAPE (J/Kg)	351
LCL	1253	CINH (J/Kg)	42
CCL	2136	LI (°C)	-1.5
MAF ICA	-1.96	PB	2
Cloud Base (meters)	2164	DRT ICA	-7.40
Warm Cloud Depth (meters)	2559	Cloud Base Temp (°C)	15

DISCUSSION:

Showers and storms were ongoing across the higher terrain areas of the southern Trans-Pecos. Additionally, a few storms have fired up east of the target area to the southeast of Fort Stockton. Temperatures have yet to warm into the 80's, thus cloud bases remain below 3kft. However, as skies begin to clear up, rapid heating should allow for instability to increase allowing storms to fire up and move off the mountains. Pilot is on standby for when this happens. Convection stayed over the mountains or just east of the area into 1930Z. However, a stray storm developed just south of Pecos. Pilot was called airborne at this time and should be up shortly before 20Z. Storms were seeded south of Pecos from the Reeves/Pecos county line eastward to route 17. Pilot moved further west as new developing was taking place. We'll work this area aggressively as well. Storms were seeded through 20Z with an RTB at 21Z for flares. Storms north of 285 were not seeded as requested. We will re-flare and regroup as needed.

WATCHES/WARNINGS:

None

SEEDED CELL ID'S:

1	2							
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FLIGHT INFORMATION:

TIME (Z)	Plane	Flare Location	County
1945	26P	IN AIR	
2002	26P	175° @ 07 nm	Reeves
2005	26P	161° @ 09 nm	Reeves
2013	26P	157° @ 21 nm	Reeves
2014	26P	157° @ 21 nm	Reeves
2016	26P	158° @ 20 nm	Reeves
2017	26P	158° @ 20 nm	Reeves
2020	26P	169° @ 12 nm	Reeves

2024	26P	158° @ 14 nm	Reeves
2025	26P	166° @ 12 nm	Reeves
2028	26P	189° @ 11 nm	Reeves
2021	26P	189° @ 11 nm	Reeves
2038	26P	197° @ 11 nm	Reeves
2041	26P	192° @ 10 nm	Reeves
2044	26P	192° @ 10 nm	Reeves
2052	26P	140° @ 06 nm	Reeves
2055	26P	RTB	
	26P	010° @ 14 nm	
	26P	017° @ 15 nm	
	26P	029° @ 14 nm	
	26P	017° @ 15 nm	
	26P	010° @ 14 nm	
	26P	017° @ 15 nm	
	26P	029° @ 14 nm	
	26P	RTB	

Seeding operations were conducted over Reeves (34) County. X flares were burned within X clouds. This is the 3rd day for seeding in July and the 5th day for seeding during the season.