

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

SEEDING REPORT - August 27, 2018

**SYNOPTIC/MESOSCALE CONDITIONS:**

Weak southwesterly flow aloft has taken over especially over the Trans-Pecos region. We won't see enough divergence aloft to trigger anything over the Concho Valley, but storms should fire over the higher terrain of the Trans-Pecos this afternoon. Strong H85 steering winds will push these storms over the adjacent plains where a weak dryline should support continued development. Showers and storms are likely today across much of the Trans-Pecos. Similar conditions will be in place tomorrow afternoon as well with the latest WRF model showing almost a repeat of what we see today. Therefore, likely rain chances will stay in the forecast for the Trans-Pecos.

**LIFTING MECHANISM:**

Upper level support, terrain

**THERMODYNAMIC INDICES (12Z KMAF)**

Freezing Level (m)	4950	-15°C Height (m)	7500
Precipitable Water (inches)	1.46	CAPE (J/Kg)	405
LCL	1894	CINH (J/Kg)	405
CCL	3560	LI(°C)	-2.0
MAF ICA	1.04	PB	2
Cloud Base (meters)	3550	DRT ICA	-
Warm Cloud Depth (meters)	1400	Cloud Base Temp (°C)	5

**DISCUSSION:**

19Z analysis showed a cluster of storms over Davis Mountains slowly pushing to the ENE. This may impact part of the adjacent plains over the next hour or so, but also provide a threat of an outflow boundary pushing into Reeves/Pecos County. Furthermore, new cumulus development was taking place just WSW of the town of Pecos and in the SW corner of Pecos County. These will be the two primary areas of concern here in the next hour. Pilot is already on standby and will launch as needed. Main issue is the lack of surface convergence, limited instability and positive ICA values. We could be dealing with some high based convection when it gets going. By 1930Z, a few showers/storms did pop up but quickly dissipated. We are close to launching but want to see convection sustain a little better. By 2030Z, convection was becoming more sustained, therefore pilot was called airborne. However, a minor aircraft issue kept us from launching, so we'll have to wait 30 minutes or so to launch. Pilot got airborne but upon doing so we got a t-storm warning for an area near Mentone. We will have to avoid that area. We'll focus on the cluster of convection just SW of Arno, which is also just SW of the severe storm. This area looks favorable. As pilot approached storms, bases were near 12kft. We'll do our best here, but this was a concern, as stated earlier. This area was heavily seeded into the 22Z hour with a good dosage of flares. We'll work further south and see what we can do with the tail end of this system closer to Toyah. This area was becoming more intense as it was being seeded into the 2230Z hour. However, NWS issued a flood advisory for this area and with the current trend it appears a flood warning is going to be coming. We'll have to go ahead and pull off and head towards eastern Ward County near Monahans. We were able to approach one storm and began seeding. However, the last few radar scans showed convection was quickly winding down as the anvil from the storms further west shaded the area. With no more seedable convection we were allowed on, pilot returned to base.

**WATCHES/WARNINGS:**

T-Storm Warning - Loving/Ward/Reeves

Flood Advisory - Reeves/Ward/Culberson

**SEEDED CELL ID'S:**

23	851							
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**FLIGHT INFORMATION:**

TIME (Z)	Plane	Flare Location	County
2132	26P	IN AIR	
2154	26P	304° @ 15 nm	Reeves
2157	26P	304° @ 15 nm	Reeves
2159	26P	304° @ 15 nm	Reeves
2202	26P	293° @ 14 nm	Reeves
2207	26P	281° @ 16 nm	Reeves
2226	26P	247° @ 23 nm	Reeves
2227	26P	247° @ 23 nm	Reeves
2258	26P	070° @ 33 nm	Ward
2259	26P	070° @ 33 nm	Ward
2300	26P	RTB	

Seeding operations were conducted over Reeves (20) and Ward (6) Counties. 26 flares were burned within 2 clouds. This is the 2<sup>nd</sup> day for seeding in August and the 9<sup>th</sup> day for seeding during the season.