

**WEST TEXAS WEATHER MODIFICATION ASSOCIATION - SAN ANGELO, 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)	1996	DRT ICA	-7.40
Warm Cloud Depth (meters)	2727	Cloud Base Temp (°C)	13

**DISCUSSION:**

Despite morning clouds, heating began to rapidly intensify through the 17Z hour. A stray shower/storm fired up in Glasscock County but quickly dissipated while a second very small shower fired up in NW Irion County. Sat imagery was looking somewhat favorable across northern Irion/Reagan counties into Sterling County. Pilot is on standby for development, when it takes place. Cumulus got interesting enough on satellite to warrant a launch. We'll go investigate what is taking place in Sterling City at the moment. Pilot launched and began seeding a cell that was not yet on radar. This became storm #475. It was heavily seeded as were others just to the west of it. Storms were responding well to seeding, especially storm #475. By 20Z, a line of showers/storms extended across just the northern 3<sup>rd</sup> of Sterling County. We then investigated more storms just to the south of this line and began seeding as well. Sat imagery was looking somewhat favorable in Irion County, so a second pilot was put on standby. However, nothing on radar just yet. First pilot may investigate that soon. Pilot RTB's at 20Z for fuel/flares. All storms are accounted for and convection appears to want to stay north of where we have been working. However, areas in Irion/Reagan/Sterling will continued to be closely watched.

**WATCHES/WARNINGS:**

None

**SEEDED CELL ID'S:**

359	475	626	625	687						
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**FLIGHT INFORMATION:**

TIME (Z)	Plane	Flare Location	County
1810	24P	In Air	
1838	24P	304° @ 35 nm	<b>Sterling</b>
1842	24P	303° @ 32 nm	<b>Sterling</b>
1843	24P	306° @ 33 nm	<b>Sterling</b>

1843	24P	308° @ 34 nm	<b>Sterling</b>
1844	24P	309° @ 35 nm	<b>Sterling</b>
1847	24P	305° @ 34 nm	<b>Sterling</b>
1849	24P	309° @ 36 nm	<b>Sterling</b>
1906	24P	312° @ 39 nm	<b>Sterling</b>
1909	24P	317° @ 37 nm	<b>Sterling</b>
1912	24P	316° @ 39 nm	<b>Sterling</b>
1913	24P	316° @ 38 nm	<b>Sterling</b>
1921	24P	306° @ 47 nm	<b>Sterling</b>
1922	24P	306° @ 49 nm	<b>Sterling</b>
1925	24P	308° @ 51 nm	<b>Sterling</b>
1926	24P	307° @ 50 nm	<b>Sterling</b>
1927	24P	306° @ 49 nm	<b>Sterling</b>
1931	24P	302° @ 51 nm	<b>Sterling</b>
1932	24P	300° @ 50 nm	<b>Sterling</b>
1939	24P	301° @ 43 nm	<b>Sterling</b>
1940	24P	302° @ 41 nm	<b>Sterling</b>
1942	24P	300° @ 40 nm	<b>Sterling</b>
1943	24P	301° @ 43 nm	<b>Sterling</b>
1943	24P	303° @ 44 nm	<b>Sterling</b>
1945	24P	301° @ 43 nm	<b>Sterling</b>
1948	24P	302° @ 44 nm	<b>Sterling</b>
1954	24P	298° @ 41 nm	<b>Sterling</b>
1955	24P	302° @ 40 nm	<b>Sterling</b>
1956	24P	301° @ 40 nm	<b>Sterling</b>
2000	24P	RTB	

Seeding operations were conducted over Sterling County (56+2H). 56 flares plus 2 hygroscopic flares were burned within 5 clouds. This is the 7<sup>th</sup> day for seeding in July and the 16<sup>th</sup> day for seeding during the season.