

**WEST TEXAS WEATHER MODIFICATION ASSOCIATION - SAN ANGELO, TEXAS**

**SEEDING REPORT - June 17, 2018**

**SYNOPTIC/MESOSCALE CONDITIONS:**

Remnants from Hurricane Bud remain just west of the target area this morning with some showers moving into Reagan and Crockett Counties. This is expected to continue through the morning and into the afternoon hours before dissipating mainly by mid-day. Meanwhile, tropical moisture will advect into our region this afternoon from the south east as a tropical wave moves over South Texas. Showers and storms may fire up across the Hill Country and extreme eastern edges of the Concho Valley. Though coverage is expected to be limited, a few showers/storms may fire east of a Sterling City to Sonora line.

**LIFTING MECHANISM:**

Cold Front

**THERMODYNAMIC INDICES (12Z KMAF)**

Freezing Level (m)	4739	-15°C Height (m)	7770
Precipitable Water (inches)	1.82	CAPE (J/Kg)	34
LCL	894	CINH (J/Kg)	128
CCL	2383	LI(°C)	1.6
MAF ICA	-6.4	PB	0
Cloud Base (meters)	2265	DRT ICA	-8.68
Warm Cloud Depth (meters)	2473	Cloud Base Temp (°C)	16

**DISCUSSION:**

Isolated showers were ongoing through the 20Z hour throughout Irion, Tom Green and Sterling Counties. However, these showers were short lived and very marginal. By 21Z, development was becoming more organized although sat imagery was showing skies becoming overcast. Meteorologist was somewhat indecisive regarding launching, but finally decided to do so by 2120Z. With such a tropical airmass in place, the thinking is clouds will exhibit rain filled bases with limited inflow as the main mechanism for development is upper level support. Still, we'll look. Pilot(s) should be airborne around 22Z. A line of storms in central Sterling County extended south into Irion County. This will be our first target. Inflow was spotty here, but we were able to find a few areas of inflow for our initial dosage. We stuck on this storm through the 22Z hour until we hit a sweet spot around 23Z. Plenty of inflow was found around this time and several flares plus a hygroscopic flare were introduced into the cloud. The cloud seemed to respond well to the seeding which took place through 2320Z. All parameters spiked between 2315 and 2330Z. While this cell was doing well, everything else was very marginal and lacked any inflow with rain filled bases. Pilots were very low on flares, so we decided to RTB and let this one heavily seeded storm ride itself out.

**WATCHES/WARNINGS:**

None

**SEEDED CELL ID'S:**

3990									
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**FLIGHT INFORMATION:**

TIME (Z)	Plane	Flare Location	County
2215	24P	IN AIR	
2236	24P	284° @ 32 nm	TOM GREEN
2240	24P	276° @ 32 nm	IRION
2255	24P	279° @ 33 nm	IRION
2258	24P	278° @ 32 nm	IRION
2300	24P	278° @ 32 nm	IRION
2301	24P	281° @ 32 nm	IRION

2302	24P	280° @ 33 nm	IRION
2304	24P	279° @ 32 nm	TOM GREEN
2307	24P	276° @ 32 nm	IRION
2308	24P	273° @ 31 nm	IRION
2309	24P	272° @ 31 nm	IRION
2310	24P	269° @ 32 nm	IRION
2312	24P	274° @ 50 nm	IRION
2314	24P	272° @ 32 nm	IRION
2316	24P	271° @ 32 nm	IRION
2316	24P	271° @ 32 nm	IRION
2318	24P	271° @ 34 nm	IRION
2321	24P	271° @ 34 nm	IRION
2325	24P	RTB	

Seeding operations were conducted over Tom Green (5) and Irion (34+1H) Counties. 39 flares plus 1 hygroscopic flare were burned within 1 large cloud. This is the 3<sup>rd</sup> day for seeding in June and the 7<sup>th</sup> day for seeding during the season.