

**SOUTH TEXAS WEATHER MODIFICATION ASSOCIATION – PLEASANTON,  
TEXAS**

**SEEDING REPORT – July 23, 2017**

**SYNOPTIC/MESOSCALE CONDITIONS:**

Partly cloudy with isolated to scattered showers and thunderstorms in the afternoon, mainly north of Pleasanton. A weak upper level low over southeastern TX could provide limited upper level support, with isolated severe storms. Locally heavy rain possible. High temps in the upper 90's, lower 100's with cooler temps over hill county. Partly cloudy overnight with early evening showers and storms mainly north of Pleasanton. Overnight low temps in the mid to upper 70's with cooler temps over hill country.

**LIFTING MECHANISM:**

Daytime heating, and outflow boundaries.

**THERMODYNAMIC INDICES (12Z KDRT)**

KCRP Freezing Level (m)	4696.54	KDRT Freezing Level (m)	4801.83
Precipitable Water (Inches)	1.73	CAPE (J/Kg)	383.73
LCL (m)	957.01	CINH (J/Kg)	280.54
CCL (m)	2635.41	LI (degrees C)	-2.16
Cloud Base (m)	2293	PB	-3.7
Warm Cloud Depth (m)	2508.83	Cloud Base Temp (°C)	22
CRP -15°C height (m)	~7000	DRT -15°C height (m)	~7300
CRP ICA	-6.3	DRT ICA	-8.3

**DISCUSSION:** Scattered showers and thunderstorms began developing across central TX after 17Z. These storms were slowly moving SSW and some became severe with small hail north of the operational area. It seems some upper level support is in place mainly from a weak area of low pressure across southeast TX. By 20Z the storms formed into a mostly solid west to east line as they slowly moved south. As storms approached the operational area, they showed signs of slowly weakening but still launched pilot just before 21:30Z. Pilot began seeding in northern Bandera county at 22Z as storms were just starting to enter the county. Despite seeding most storms began weakening and eventual dissipation. Storms dissipated and/or moved out of the area by 22:25Z so send pilot south. The complex of storms generated a strong outflow, which began developing small showers along the outflow in Frio county after 23Z. Pilot encountered multiple developing showers so 1-2 flares were burned within each developing shower. Only two showers developed storm IDs but none lasted very long. Sent pilot east to check out another developing storm in Karnes county after 00Z however storm did not have inflow.

**Warnings:** None that affected seeding

**Seeded cell ID's:** 834, 709, 905, 1304, 1402, undefined

**Flight Information:**

Time (UTC)	Plane	Flare Location	County
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21:22	57AA	In air	
22:00	57AA	324 @ 55	Bandera
22:03	57AA	322 @ 58	Bandera
22:08	57AA	321 @ 62	Bandera
22:21	57AA	311 @ 69	Bandera
23:42	57AA	270 @ 37	Frio
23:48	57AA	266 @ 33	Frio
23:50	57AA	261 @ 32	Frio
23:53	57AA	258 @ 28	Frio
23:58	57AA	249 @ 23	Frio
0:51	57AA	Landed	

Seeding operations were conducted over Bandera (9 + 1H), and Frio (7 + 0H) counties. 16 flares plus 1 hygroscopic flares were burned within 5+ clouds. This is the 10<sup>th</sup> day for seeding in July and the 23<sup>rd</sup> day for seeding during the season.