

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

SEEDING REPORT – August 23, 2017

SYNOPTIC/MESOSCALE CONDITIONS:

Mostly clear over south Texas this morning with widespread high clouds over hill country and central TX. A weak cold front over north-central TX will slowly move south today, which looks to help develop isolated to scattered showers and thunderstorms this afternoon, mainly north of Pleasanton. Localized heavy rain is possible. High temperatures in the mid to upper 90's with cooler temps over hill country. High Heat Index Values are possible this afternoon, but mostly in isolated areas and not widespread. Partly cloudy overnight with isolated showers and storms through the early overnight hours. Low temps in the mid to upper 70's with cooler temps over hill country.

LIFTING MECHANISM:

Daytime heating, cold front, and outflow boundaries.

THERMODYNAMIC INDICES (18Z KDRT)

KCRP Freezing Level (m)	5081.44	KDRT Freezing Level (m)	4645.37
Precipitable Water (Inches)	1.71	CAPE (J/Kg)	185.75
LCL (m)	1954.78	CINH (J/Kg)	81.24
CCL (m)	2685.19	LI (degrees C)	-0.23
Cloud Base (m)	2103	PB	-4.1
Warm Cloud Depth (m)	2542.37	Cloud Base Temp (degrees C)	18
CRP -15°C height (m)	~7400	DRT -15°C height (m)	~7500
CRP ICA	-10.2	DRT ICA	-5.5

DISCUSSION: A cold front was dropping south through hill county, with isolated showers developing over hill county after 16:30Z. Rain quickly became scattered and continued to push south into Bandera and Uvalde counties. Soundings were from 18Z. Only one pilot was able to fly today. Seeding began in northern Bandera county then proceeded south/southwest along a broken line of storms into Uvalde. Seeded storms seemed to do ok when material was added but none of the storms were very strong. Storms were gradually weakening and by 20Z all storms dissipated.

Warnings: None

Seeded cell ID's: 568, 429, 632, 631, 628, 667, 763

Flight Information:

Time (UTC)	Plane	Flare Location	County
18:22	160P	In air	
19:16	160P	313 @ 65 NM	Bandera
19:16	160P	311 @ 65	Bandera

19:18	160P	309 @ 66	Bandera
19:29	160P	290 @ 66	Uvalde
19:32	160P	286 @ 67	Uvalde
19:34	160P	284 @ 69	Uvalde
19:41	160P	280 @ 76	Uvalde
19:42	160P	280 @ 76	Uvalde
19:43	160P	280 @ 76	Uvalde
19:54	160P	285 @ 63	Uvalde
19:55	160P	287 @ 62	Uvalde
19:56	160P	289 @ 62	Uvalde
20:47	160P	Landed	

Seeding operations were conducted over Bandera (6 + 1H), and Uvalde (18 + 2H) counties. 24 flares plus 3 hygroscopic flares were burned within 7 clouds. This is the 8th day for seeding in August and the 33rd day for seeding during the season.