

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

SEEDING REPORT – August 11, 2017

SYNOPTIC/MESOSCALE CONDITIONS:

Mostly clear with a few thin high clouds over south Texas this morning, with temperatures ranging from the lower to upper 70's. High pressure over the Gulf looks to bring partly cloudy skies and isolated afternoon showers and thunderstorms along the coast and coastal plains today. High heat and humidity look to create High Heat Index values this afternoon and evening mainly around and east of the I-35 region. High temperatures in the upper 90's, lower 100's. Partly cloudy overnight with low temps in the upper 70's, lower 80's with cooler temps over hill country.

LIFTING MECHANISM:

Daytime heating, and outflow boundaries.

THERMODYNAMIC INDICES (12Z KCRP)

KCRP Freezing Level (m)	5021.41	KDRT Freezing Level (m)	4994.23
Precipitable Water (Inches)	2.06	CAPE (J/Kg)	1625.23
LCL (m)	101.78	CINH (J/Kg)	22.35
CCL (m)	1175.60	LI (degrees C)	-5.02
Cloud Base (m)	1676	PB	1.7
Warm Cloud Depth (m)	3345.41	Cloud Base Temp (degrees C)	20
CRP -15°C height (m)	~7600	DRT -15°C height (m)	~7700
CRP ICA	-13.5	DRT ICA	-14.2

DISCUSSION: Isolated showers began forming from daytime heating in Bee county after 21Z. Strong cap kept the storms from developing vertically. One storm had inflow of 300 – 400 ft/min, however the storms was already dissipating on radar. Flares were burned in the storm updraft, but the storm was already weakening and flare material was not enough to revive the storm. No other storms developed.

Warnings: None

Seeded cell ID's: 259

Flight Information:

Time (UTC)	Plane	Flare Location	County
22:06	160P	In air	
22:23	160P	122 @ 42 NM	Bee
22:23	160P	123 @ 41	Bee
22:24	160P	123 @ 39	Bee
22:52	160P		

Seeding operations were conducted over Bee (6 + 1H) county. 6 flares plus 1 hygroscopic flare were burned within 1 clouds. This is the 5th day for seeding in August and the 30th day for seeding during the season.