

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

**SEEDING REPORT – July 14, 2017**

**SYNOPTIC/MESOSCALE CONDITIONS:**

Partly to mostly cloudy this morning across the south Texas region, with scattered fog mainly south of San Antonio. Fog could be dense in some areas, and looks to last through the early to mid morning hours. A complex of showers and thunderstorms is ongoing west of Del Rio this morning, slowly moving off to the northwest. This complex has been aided from an upper level low pressure system over northern Mexico. The low looks to move off to the northwest through the morning hours, with partly to mostly cloudy skies across south TX, and isolated afternoon showers and thunderstorms along the coast and coastal plains. High Heat Index values are possible this afternoon. High temperatures in the mid to upper 90's. Partly to mostly cloudy overnight with low temps in the mid to upper 70's with cooler temps over hill country. Patchy fog possible after midnight.

**LIFTING MECHANISM:**

Daytime heating, weak seabreeze, and outflow boundaries.

**THERMODYNAMIC INDICES (12Z KCRP)**

KCRP Freezing Level (m)	4851.80	KDRT Freezing Level (m)	4718.31
Precipitable Water (Inches)	1.72	CAPE (J/Kg)	1336.19
LCL (m)	13.00	CINH (J/Kg)	79.96
CCL (m)	1609.82	LI (degrees C)	-3.34
Cloud Base (m)	1438	PB	4.9
Warm Cloud Depth (m)	3413.8	Cloud Base Temp (°C)	20
CRP ICA	-8	DRT ICA	-9.9

**DISCUSSION:** Very isolated showers started developing after 20Z near the coast. One persistent storm moved into Bee county so sent pilot to investigate. Pilot began seeding storm with 400-500 ft/min inflow. Storms overall were not very strong so only added a few flares to a few storms. Based the number of flares on the storm mass so only added 1-2 flares at a time. Outflow boundaries were the main initiation for all convection. Weak showers continued to form until after 22Z when all showers activity ended.

**Warnings:** None

**Seeded cell ID's:** 581, 624, 642, 662, 708

**Flight Information:**

Time (UTC)	Plane	Flare Location	County
20:20	160P	In air	
20:42	160P	122 @ 66	Bee
20:43	160P	122 @ 67	Bee

21:07	160P	123 @ 59	Bee
21:12	160P	124 @ 57	Bee
21:51	160P	130 @ 54	Bee
22:22	160P	154 @ 26	McMullen
22:53	160P	Landed	

Seeding operations were conducted over Bee (10 + 1H) and McMullen (16 + 0H) counties. 10 flares plus 0 hygroscopic flares were burned within 5 clouds. This is the 5<sup>th</sup> day for seeding in July and the 18<sup>th</sup> day for seeding during the season.