

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

SEEDING REPORT – September 18, 2017

SYNOPTIC/MESOSCALE CONDITIONS:

Mostly cloudy across south Texas this morning, with scattered areas of fog east of San Antonio. Fog looks to last through the early morning hours. Isolated showers are moving onshore east of Victoria this morning, with more expected throughout the day. High pressure over Louisiana is sending moisture into southern and eastern TX, with isolated to scattered showers and thunderstorms possible this afternoon and evening. Rain more likely southeast of San Antonio. High temperatures in the mid to upper 90's. Isolated rain possible in the early evening, then partly to mostly cloudy overnight. Patchy fog possible after midnight. Low temps in the mid to upper 70's.

LIFTING MECHANISM:

Daytime heating, seabreeze, and outflow boundaries.

THERMODYNAMIC INDICES (12Z KCRP)

KCRP Freezing Level (m)	5128.80	KDRT Freezing Level (m)	4763.86
Precipitable Water (Inches)	2.10	CAPE (J/Kg)	1593.51
LCL (m)	13.00	CINH (J/Kg)	12.81
CCL (m)	991.12	LI (degrees C)	-5.27
Cloud Base (m)	889	PB	1.3
Warm Cloud Depth (m)	4239.8	Cloud Base Temp (degrees C)	24
CRP -15°C height (m)	~7700	DRT -15°C height (m)	~7600
CRP ICA	-12.2	DRT ICA	-8.8

DISCUSSION: Scattered weak showers began forming east of the target area after 17Z. Decided to launch pilot as showers increased in number and began forming south of Bee county. General direction was from south to north as the seabreeze came onshore. Pilot began investigating showers in southern Karnes county but did not find inflow. Pilot had better luck with stronger showers in northern Bee county where seeding began. Seeding continued throughout Bee county as multiple storms formed and merged into more storms. Pilot was then sent to Karnes county where seeding continued. A well defined seabreeze was moving north/northwest through the target area, however only limited thunderstorms were developing along and behind the boundary. Pilot then investigated weak showers in Wilson county however these did not have sufficient inflow. The seabreeze seemed to slow down and stall by late afternoon, and thus storms weakened. Pilot landed for fuel when storms were weakening, but by the time he took off, all storms dissipated.

Warnings: None

Seeded cell ID's: 665, 524, 746, 763, 827, unidentified

Flight Information:

Time (UTC)	Plane	Flare Location	County
18:20	160P	In air	
18:43	160P	115 @ 46 NM	Bee
18:44	160P	116 @ 47	Bee
18:48	160P	119 @ 44	Bee
18:49	160P	118 @ 43	Bee
18:51	160P	116 @ 44	Bee
19:04	160P	127 @ 54	Bee
19:05	160P	127 @ 54	Bee
19:22	160P	111 @ 35	Bee
19:23	160P	110 @ 35	Bee
19:37	160P	98 @ 36	Karnes
19:38	160P	95 @ 36	Karnes
19:46	160P	106 @ 30	Karnes
19:47	160P	105 @ 30	Karnes
19:55	160P	88 @ 38	Karnes
19:56	160P	88 @ 36	Karnes
19:58	160P	88 @ 36	Karnes
20:07	160P	91 @ 26	Karnes
20:08	160P	91 @ 25	Karnes
20:52	160P	Landed	

Seeding operations were conducted over Bee (18 + 3H), Karnes (18 + 1H) county. 36 flares plus 4 hygroscopic flares were burned within 6 clouds. This is the 3rd day for seeding in September and the 36th day for seeding during the season.