

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

SEEDING REPORT – July 6, 2017

SYNOPTIC/MESOSCALE CONDITIONS:

Mostly clear this morning across the south Texas region, with scattered fog east of San Antonio, and scattered showers and storms west of Junction. Fog looks to last through the early morning hours. The scattered showers and storms over hill country look to slowly move south and weaken throughout the morning hours. Strong high pressure over the southeastern US is sending high amounts of moisture in south TX from the Gulf. Isolated afternoon showers and thunderstorms are possible along the coast and coastal plains, and also possible this afternoon over hill county where a weak trough of low pressure exists. High temperatures in the mid to upper 90's today with warmer temps along the Rio Grande Plains. Partly cloudy overnight with low temps in the mid to upper 70's. Patchy fog is possible after midnight.

LIFTING MECHANISM:

Daytime heating, seabreeze, and outflow boundaries.

THERMODYNAMIC INDICES (12Z KCRP)

KCRP Freezing Level (m)	4891.31	KDRT Freezing Level (m)	4579.55
Precipitable Water (Inches)	1.70	CAPE (J/Kg)	1855.47
LCL (m)	13.00	CINH (J/Kg)	34.22
CCL (m)	1202.21	LI (degrees C)	-4.73
Cloud Base (m)	1144	PB	5.7
Warm Cloud Depth (m)	3747.31	Cloud Base Temp (°C)	22
CRP ICA	-5.6	DRT ICA	-.53

DISCUSSION: A weak seabreeze began moving onshore around 16Z with numerous small showers developing all along the coast. After 17Z a few of these showers would develop into stronger showers and weak thunderstorms, however none lasted more than one hour. Just after 18Z launched Kenedy plot to investigate showers over Bee county. Seeding began on small showers in southern Karnes county just after 18:30Z as showers were moving to the northwest. Showers were weak so would only add flares in small amounts. Multiple showers were seeded across southern and central Karnes counties however most lasted only about 30 minutes. By 19Z the majority of the showers were gone or rapidly weakening. Pilot landed for fuel at 20:52Z and when he took off again he began seeding a stronger storm in Bee county. Seeding lasted on the Bee county storm until 21:51Z when pilot was sent to investigate storms on the border of Live Oak/McMullen counties. These storms looked ok on radar but pilot did not find any inflow. Pilot returned to Karnes county and began seeding a storm on the far eastern edge at 22:45Z. Seeding was conducted on this storm until 23:03Z. Shortly after seeding concluded this storm and all other storms in the operational area dissipated and seeding ended.

Warnings: None

Seeded cell ID's: 795, 818, 860, 1030, 1178, 1194

Flight Information:

Time (UTC)	Plane	Flare Location	County
18:23	160P	In air	
18:31	160P	93° @ 40 NM	Karnes
18:37	160P	94 @ 48	Karnes
18:42	160P	90 @ 40	Karnes
18:43	160P	90 @ 39	Karnes
18:49	160P	98 @ 34	Karnes
18:55	160P	92 @ 35	Karnes
18:56	160P	93 @ 36	Karnes
20:31	160P	129 @ 63	Bee
20:32	160P	129 @ 63	Bee
20:52	160P	Landed	
21:20	160P	In air	
21:27	160P	117 @ 53	Bee
21:28	160P	116 @ 53	Bee
21:31	160P	115 @ 53	Bee
21:39	160P	116 @ 48	Bee
21:40	160P	116 @ 49	Bee
21:51	160P	117 @ 46	Bee
22:44	160P	90 @ 44	Karnes
22:45	160P	89 @ 43	Karnes
22:49	160P	88 @ 41	Karnes
22:50	160P	90 @ 41	Karnes
23:02	160P	94 @ 42	Karnes
23:03	160P	92 @ 40	Karnes
23:25	160P	Landed	

Seeding operations were conducted over Bee (16 + 1H) and Karnes (26 + 2H) counties. 42 flares plus 3 hygroscopic flares were burned within 6 clouds. This is the 1st day for seeding in July and the 14th day for seeding during the season.