

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

SEEDING REPORT – June 5, 2017

SYNOPTIC/MESOSCALE CONDITIONS:

A variety of weather conditions are affecting south TX this morning, with scattered showers and thunderstorms across extreme south TX and east of San Antonio along the coast and coastal plains. These storms are moving off to the southeast, and a few could be severe. Otherwise mostly clear across the rest of the region, with patchy fog northeast of Austin. Fog looks to last through the early to mid morning hours. A broad upper level trough is slowly moving east across TX today, with another weak trough moving through later this afternoon. This trough, combined with daytime heating, looks to help initiate isolated to scattered showers and thunderstorms this afternoon through evening. A few storms could be severe, and localized heavy rain is possible. High temperatures in the lower to mid 90's with warmer temps across the Rio Grande plains. Isolated showers and storms continue through the evening and early overnight hours, then partly cloudy overnight. Patchy fog is possible. Overnight low temps in the upper 60's, lower 70's.

LIFTING MECHANISM:

Daytime heating and outflow boundaries. Perhaps a weak surface trough.

THERMODYNAMIC INDICES (12Z KCRP)

KCRP Freezing Level (m)	4188.16	KDRT Freezing Level (m)	4358.62
Precipitable Water (Inches)	1.77	CAPE (J/Kg)	1234.10
LCL (m)	13.00	CINH (J/Kg)	118.73
CCL (m)	1672.18	LI (degrees C)	-2.98
Cloud Base (m)	1713	PB	0.3
Warm Cloud Depth (m)	2475.16	Cloud Base Temp (°C)	19
CRP ICA	-12.9	DRT ICA	-9.3

DISCUSSION: Isolated showers formed over central TX after 18Z and slowly moved south. A few showers started developing in Wilson county after 20Z, and launched pilot to investigate after 21Z. Showers dissipated so sent pilot to Bandera county to wait for storms moving from the north into Bandera/Bexar. Pilot began seeding, but showers dissipated and pilot went into Bandera county to track more showers. Pilot seeded more weak storms in northern Medina county at 22:45Z but these did not develop. As pilot was returning storms developed over San Antonio and moved south, so launched second pilot as well. This storm developed on a weak outflow boundary. Both pilots started seeding storm over northern Atascosa county just after 23:30Z. Storm intensified so both pilots continued seeding until first pilot ran out of flares and landed. Second pilot continued seeding on strong storm in central Atascosa, then went on to other developing storms in Frio county. These storms in Frio were seeded until the pilot ran out of flares.

Warnings: None that did not affect seeding.

Seeded cell ID's: 157, 593, unidentified, 98, 971, 950, 942

Flight Information:

Time (UTC)	Plane	Flare Location	County
21:21	57AA	In air	
22:05	57AA	338° @ 46 NM	BX
22:09	57AA	329 @ 47	BA
22:42	57AA	307 @ 48	ME
22:43	57AA	309 @ 47	ME
22:45	57AA	308 @ 46	ME
22:46	57AA	306 @ 47	ME
22:47	57AA	309 @ 46	ME
23:09	160P	In air	
23:29	57AA	3.5 @ 14	AT
23:30	57AA	310 @ 12	AT
23:30	57AA	315 @ 10	AT
23:32	57AA	326 @ 8	AT
23:33	57AA	334 @ 8	AT
23:34	57AA	343 @ 7	AT
23:35	160P	45 @ 18	WI
23:35	160P	45 @ 16	WI
23:36	57AA	348 @ 6	AT
23:36	160P	46 @ 13	WI
23:37	57AA	339 @ 6	AT
23:37	160P	47 @ 12	WI
23:38	160P	48 @ 9	AT
23:39	160P	52 @ 7	AT
23:40	57AA	290 @ 7	AT
23:42	57AA	289 @ 5	AT
23:42	160P	64 @ 7	AT
23:44	160P	61 @ 9	AT
23:45	160P	64 @ 12	WI
23:46	160P	65 @ 14	WI
23:47	160P	63 @ 17	WI
23:51	160P	67 @ 18	WI
23:51	160P	70 @ 17	WI
23:53	160P	76 @ 15	WI
23:54	160P	84 @ 12	AT
23:55	160P	91 @ 11	AT
23:56	57AA	Landed	

23:59	160P	139 @ 6	AT
0:00	160P	159 @ 6	AT
0:01	160P	181 @ 7	AT
0:02	160P	194 @ 8	AT
0:03	160P	205 @ 10	AT
0:11	160P	242 @ 21	FR
0:12	160P	246 @ 22	FR
0:13	160P	249 @ 24	FR
0:14	160P	252 @ 26	FR
0:15	160P	254 @ 28	FR
0:16	160P	257 @ 30	FR
0:17	160P	259 @ 32	FR
0:18	160P	260 @ 34	FR
0:19	160P	262 @ 37	FR
0:20	160P	262 @ 38	FR
0:23	160P	259 @ 38	FR
1:11	160P	Landed	

Seeding operations were conducted over Atascosa (42 + 3H), Bandera (2 + 0H), Bexar (2 + 1H), Frio (22 + 2H), Medina (13 + 1H), and Wilson (20 + 2H) counties. 101 flares plus 9 hygroscopic flares were burned within 6+ clouds. This is the 3rd day for seeding in June and the 9th day for seeding during the season.