

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

SEEDING REPORT – July 13, 2017

SYNOPTIC/MESOSCALE CONDITIONS:

Partly to mostly cloudy across the south Texas region this morning, with scattered showers west of Del Rio. Isolated to scattered showers look to continue along and west of the border through the late morning hours. An area of low pressure is stalled across the southwest corner of the state, drawing moisture from the Gulf into the south TX region. Skies look to be partly cloudy by about noon, with isolated to scattered showers and thunderstorms developing across the region in the early afternoon. Widespread rain is not expected, however brief heavy rain is possible. High temperatures in the mid to upper 90's. Isolated showers and storms look to last through the evening hours, then partly cloudy overnight. Isolated showers are possible overnight west of San Antonio. Low temps in the mid to upper 70's with cooler temps over hill country.

LIFTING MECHANISM:

Daytime heating, and outflow boundaries.

THERMODYNAMIC INDICES (12Z KCRP)

KCRP Freezing Level (m)	4857.60	KDRT Freezing Level (m)	4718.31
Precipitable Water (Inches)	1.79	CAPE (J/Kg)	1601.30
LCL (m)	48.37	CINH (J/Kg)	21.22
CCL (m)	1199.34	LI (degrees C)	-4.75
Cloud Base (m)	1354	PB	3.9
Warm Cloud Depth (m)	3503.6	Cloud Base Temp (°C)	22
CRP ICA	-7.7	DRT ICA	-8.5

DISCUSSION: Small scattered showers began developing south of San Antonio after 16Z. By 18Z these became scattered showers and thunderstorms. First pilot was launched and began investigating weak storms in Medina county. Pilot continued seeding storms in medina until storm dissipated. Pilot then went to Uvalde and began seeding with little radio contact. Launched second pilot who began seeding strong complex of storms in southern Atascosa county. These storms slowly moved north and intensified, even bringing very strong winds to the Pleasanton Airport. After these storms moved north of the airport they weakened and the pilot had trouble finding inflow. The first pilot returned and tried seeding weak storms in Wilson county at 20:18Z. Seeding on weak storms continued until just after 21:15Z when all storms dissipated. Other pilot returned to base.

Warnings: None

Seeded cell ID's: 694, 680, 713, 712, 671, 1351, 1438, 1490, 1353

Flight Information:

Time (UTC)	Plane	Flare Location	County
17:47	160P	In air	

18:24	160P	310° @ 29 NM	Medina
18:25	160P	309 @ 30	Medina
18:37	160P	292 @ 50	Medina
18:37	160P	292 @ 51	Medina
18:38	160P	291 @ 53	Medina
18:52	57AA	In air	
19:02	57AA	199 @ 15	Atascosa
19:03	57AA	196 @ 14	Atascosa
19:05	57AA	203 @ 14	Atascosa
19:08	57AA	192 @ 16	Atascosa
19:09	57AA	195 @ 15	Atascosa
19:13	160P	283 @ 70	Uvalde
19:14	57AA	176 @ 15	Atascosa
19:14	160P	283 @ 71	Uvalde
19:15	57AA	178 @ 13	Atascosa
19:15	160P	283 @ 72	Uvalde
19:16	57AA	185 @ 12	Atascosa
19:16	160P	283 @ 73	Uvalde
19:17	57AA	185 @ 12	Atascosa
19:17	160P	283 @ 74	Uvalde
19:18	57AA	178 @ 12	Atascosa
19:21	57AA	169 @ 11	Atascosa
19:23	57AA	168 @ 10	Atascosa
19:27	57AA	166 @ 13	Atascosa
19:28	57AA	164 @ 13	Atascosa
19:34	57AA	209 @ 6	Atascosa
19:36	57AA	222 @ 7	Atascosa
20:04	57AA	339 @ 7	Atascosa
20:05	57AA	344 @ 8	Atascosa
20:06	57AA	331 @ 8	Atascosa
20:07	57AA	329 @ 9	Atascosa
20:18	160P	25 @ 29	Wilson
20:21	160P	23 @ 19	Wilson
20:33	160P	57 @ 15	Wilson
20:34	160P	60 @ 15	Wilson
20:48	160P	102 @ 24	Karnes
20:52	57AA	Landed	
21:01	160P	57 @ 23	Wilson
21:02	160P	57 @ 23	Wilson

21:09	160P	47 @ 25	Wilson
21:10	160P	45 @ 26	Wilson
21:49	160P	Landed	

Seeding operations were conducted over Atascosa (40 + 0H), Karnes (2 + 0H), Medina (10 + 1H), Uvalde (10 + 1H), and Wilson (16 + 0H) counties. 78 flares plus 2 hygroscopic flares were burned within 9 clouds. This is the 4th day for seeding in July and the 17th day for seeding during the season.