

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

SEEDING REPORT – June 24, 2017

SYNOPTIC/MESOSCALE CONDITIONS:

A strong cold front looks to move into the south TX region today, with abundant moisture leading to scattered to widespread showers and thunderstorms. Locally heavy rain is possible. A weak morning MCS over central TX is also moving south, but looks to dissipate throughout the day. High temperatures in the mid to upper 80's, with cooler temps east of San Antonio. Showers and storms look to last through the evening, but dissipate once the sun goes down. Mostly cloudy overnight with possible fog. Overnight low temps in the mid to upper 70's.

LIFTING MECHANISM:

Daytime heating and slow moving cold front.

THERMODYNAMIC INDICES (12Z KCRP)

KCRP Freezing Level (m)	4916.19	KDRT Freezing Level (m)	4888.81
Precipitable Water (Inches)	1.88	CAPE (J/Kg)	2779.09
LCL (m)	102.38	CINH (J/Kg)	0.83
CCL (m)	720.23	LI (degrees C)	-6.01
Cloud Base (m)	780	PB	4.7
Warm Cloud Depth (m)	4108.81	Cloud Base Temp (°C)	26
CRP ICA	-6.3	DRT ICA	-13.1

DISCUSSION: A weak MCS in the morning, combined with a slow moving cold front, were moving south through Central TX. By widespread showers and storms began forming in the across east of San Antonio in the late morning, however low clouds prevented any takeoff until after 12 pm. Storms started forming in Atascosa and Frio counties after 17Z, while low clouds lifted enough for Pleasanton pilot to take off. Kenedy pilot was stuck in the rain and low clouds through the morning and early afternoon hours. Pleasanton pilot began seeding in western Atascosa county after 17:45Z. Pilot continued seeding in Atascosa county through 18:30Z, then moved into Frio as storms formed there. Those storms dissipated so pilot moved north to Medina where another storm formed on the Medina/Bexar county line. Launched second pilot to just before 19Z to investigate developing storms in Bee county, pilot was not able to launch sooner due to low clouds and rain. Storm in Bee county started moving out of the region so sent pilot to storms in southern McMullen county. Pilot in Medina county started seeding storm that was not visible on radar at first, but had a strong inflow and shelf cloud. This storm dissipated before all the flares could be added, and that pilot returned to Pleasanton. Second pilot continued to seed a strong storm in southern Medina county until about 20Z when the storm moved out of the operational area. After that all storms either dissipated or moved out of the operational area, so seeding operations ended for the day.

Warnings: None

Seeded cell ID's: 3582, 3607, 329, 3428, undefined

Flight Information:

Time (UTC)	Plane	Flare Location	County
17:20	57AA	In air	
17:51	57AA	219° @ 7 NM	Atascosa
17:52	57AA	220 @ 8	Atascosa
17:53	57AA	210 @ 8	Atascosa
17:54	57AA	223 @ 8	Atascosa
18:04	57AA	230 @ 16	Atascosa
18:05	57AA	230 @ 16	Atascosa
18:06	57AA	226 @ 16	Atascosa
18:07	57AA	228 @ 16	Atascosa
18:08	57AA	225 @ 17	Atascosa
18:14	57AA	232 @ 12	Atascosa
18:15	57AA	234 @ 12	Atascosa
18:17	57AA	236 @ 13	Atascosa
18:18	57AA	231 @ 12	Atascosa
18:20	57AA	225 @ 12	Atascosa
18:26	57AA	230 @ 18	Atascosa
18:27	57AA	230 @ 18	Atascosa
18:28	57AA	231 @ 18	Atascosa
18:35	57AA	251 @ 20	Frio
18:36	57AA	250 @ 20	Frio
18:38	57AA	251 @ 21	Frio
18:55	160P	In air	
19:04	57AA	291 @ 29	Medina
19:04	57AA	292 @ 29	Medina
19:07	57AA	290 @ 30	Medina
19:10	57AA	288 @ 30	Medina
19:18	57AA	279 @ 41	Medina
19:21	57AA	279 @ 42	Medina
19:22	57AA	279 @ 42	Medina
19:24	57AA	278 @ 42	Medina
19:38	160P	179 @ 42	McMullen
19:38	160P	181 @ 43	McMullen
19:39	160P	180 @ 42	McMullen
19:40	160P	180 @ 43	McMullen
19:41	160P	180 @ 42	McMullen
19:45	160P	181 @ 42	McMullen

19:46	160P	179 @ 41	McMullen
19:47	160P	181 @ 42	McMullen
19:48	160P	181 @ 42	McMullen
20:00	57AA	Landed	
20:40	160P	Landed	

Seeding operations were conducted over Atascosa (36 + 0H), Frio (6 + 0H), McMullen (18 + 2H), and Medina (15 + 0H) counties. 75 flares plus 2 hygroscopic flares were burned within 4+ clouds. This is the 4th day for seeding in June and the 10th day for seeding during the season.