

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

SEEDING REPORT – September 22, 2017

SYNOPTIC/MESOSCALE CONDITIONS:

Partly to mostly cloudy across south Texas this morning, with scattered fog east and northeast of San Antonio. Fog looks to last through the early morning hours. A broad area of high pressure is centered over the eastern US, with southeasterly winds bringing moisture from the Gulf into TX. With slightly drier air than yesterday, isolated afternoon showers and thunderstorms are possible across the region. High temperatures in the upper 80's, lower 90's, with warmer temps over the Rio Grande Plains. Partly then mostly cloudy overnight with low temps in the lower to mid 70's, and cooler temps over hill country. Fog possible after midnight.

LIFTING MECHANISM:

Daytime heating, and outflow boundaries.

THERMODYNAMIC INDICES (12Z KDRT)

KCRP Freezing Level (m)	4640.72	KDRT Freezing Level (m)	4796.69
Precipitable Water (Inches)	1.67	CAPE (J/Kg)	520.80
LCL (m)	730.37	CINH (J/Kg)	30.71
CCL (m)	1107.86	LI (degrees C)	-1.96
Cloud Base (m)	1605	PB	-0.9
Warm Cloud Depth (m)	3191.69	Cloud Base Temp (degrees C)	21
CRP -15°C height (m)	~7500	DRT -15°C height (m)	~7500
CRP ICA	-6.7	DRT ICA	-11.9

DISCUSSION: Isolated showers began developing after 18Z. By 19Z small showers began developing from northern McMullen county to the northwest through Frio. Launched both pilots and began seeding numerous small showers across McMullen, Frio, and Atascosa counties. Some storms did better than others when seeded, especially showers which merged together. Storms were very slowly moving off to the northwest, with new storms forming in southern Medina county after 21Z. Eventually sent one pilot further into Medina as isolated showers were developing in Medina and Uvalde counties. Pilot tried seeding but showers were weak and did not last even with seeding material. Continued seeding relatively stationary storms on Frio/Atascosa county line until after 23Z when pilots ran out of flares and it started to get dark.

Warnings: None

Seeded cell ID's: 802, 824, 836, 841, 910, 923, 967, 793, 958, 1007, 1085, 1056, 936 (likely more but cells merged)

Flight Information:

Time (UTC)	Plane	Flare Location	County
19:23	160P	In air	
19:27	57AA	In air	

19:59	57AA	227 @ 24	Frio
20:00	57AA	228 @ 23	Frio
20:06	57AA	241 @ 20	Frio
20:07	57AA	243 @ 21	Frio
20:10	57AA	235 @ 21	Frio
20:14	57AA	238 @ 20	Frio
20:17	160P	212 @ 26	McMullen
20:18	160P	214 @ 27	McMullen
20:19	57AA	243 @ 15	Atascosa
20:20	57AA	244 @ 16	Atascosa
20:22	57AA	243 @ 16	Atascosa
20:27	160P	248 @ 23	Frio
20:29	160P	253 @ 22	Frio
20:58	57AA	212 @ 31	Zavala
20:59	57AA	214 @ 30	Zavala
21:00	160P	243 @ 21	Frio
21:00	160P	241 @ 21	Frio
21:02	160P	234 @ 20	Frio
21:02	57AA	219 @ 30	Zavala
21:04	57AA	221 @ 30	Zavala
21:10	160P	250 @ 14	Atascosa
21:14	57AA	235 @ 21	Frio
21:18	57AA	234 @ 20	Frio
21:21	160P	285 @ 27	Medina
21:22	160P	289 @ 27	Medina
21:32	160P	289 @ 28	Medina
21:33	160P	291 @ 30	Medina
21:46	57AA	227 @ 25	Frio
21:47	57AA	227 @ 24	Frio
21:52	57AA	218 @ 25	Frio
21:52	57AA	216 @ 25	Frio
21:55	57AA	222 @ 25	Frio
21:57	160P	281 @ 80	Uvalde
22:25	57AA	297 @ 28	Medina
22:26	57AA	295 @ 27	Medina
22:30	160P	309 @ 34	Medina
22:48	57AA	Landed	
22:49	160P	247 @ 17	Atascosa
22:50	160P	243 @ 18	Atascosa

22:51	160P	236 @ 18	Atascosa
22:52	160P	231 @ 17	Atascosa
22:58	160P	203 @ 22	McMullen
22:59	160P	200 @ 23	McMullen
23:00	160P	198 @ 25	McMullen
23:32	160P	Landed	

Seeding operations were conducted over Atascosa (14 + 2H), Frio (36 + 1H), McMullen (10 + 0H), Medina (14 + 0H), Uvalde (2 + 0H), and Zavala (8 + 0H) counties. 84 flares plus 3 hygroscopic flares were burned within 13 clouds. This is the 6th day for seeding in September and the 39th day for seeding during the season.