

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

SEEDING REPORT – May 30, 2017

SYNOPTIC/MESOSCALE CONDITIONS:

Partly to mostly cloudy across south TX this morning, with patchy fog north and east of Pleasanton. Fog looks to last through the early to mid morning hours. Scattered thunderstorms are present southwest of San Angelo this morning, and more shower and thunderstorms activity is possible this morning near Del Rio. A stationary front is draped east to west across the region this morning, with isolated showers and thunderstorms possible west of San Antonio this morning. Most of the morning rain looks to be over hill country. Isolated to scattered showers and thunderstorms possible in the afternoon mainly west of San Antonio, although a few storms could reach San Antonio. High temperatures today in the upper 80's, lower 90's with cooler temps over hill country. Showers and storms look to end around sunset and loss of daytime heating, with partly cloudy skies overnight. Low temps in the lower to mid 70's with cooler temps over hill country.

LIFTING MECHANISM:

Weak MCS

THERMODYNAMIC INDICES (12Z KDRT)

KCRP Freezing Level (m)	4148.88	KDRT Freezing Level (m)	4243.14
Precipitable Water (Inches)	1.70	CAPE (J/Kg)	947.77
LCL (m)	666.05	CINH (J/Kg)	29.31
CCL (m)	1419.70	LI (degrees C)	-3.98
Cloud Base (m)	1220	PB	3.7
Warm Cloud Depth (m)	3023.14	Cloud Base Temp (°C)	21
CRP ICA	-10.8	DRT ICA	-2

DISCUSSION: A weak MCS near Del Rio was moving north throughout the morning. Scattered showers and storms on the far eastern side were forming near Bandera after 18Z. Pilot began seeding in Medina and Bandera counties after 18:30Z. Storms continued to form, but pilot did not find inflow until after 19Z when storms formed into a disorganized line. Storms formed into a better line and moved south through Bandera, Medina, and Bexar counties. Seeding continued along the entire line since that was the only thing. However the storm ID number in titan changed halfway as the storms merged. Second pilot was in the air just before 20Z. First pilot returned for more flares. Second pilot seeded storms in Uvalde county, then investigated a few storms in Frio but found nothing with strong inflow. Pilot then seeded a few storms in Wilson before a Severe Thunderstorm Warning forced us to stop. Pilot then found a small area of inflow northeast of Pleasanton and finished off their remaining flares.

Warnings: Severe Thunderstorm Warning in Wilson county.

Seeded cell ID's: 93, 1322

Flight Information:

Time (UTC)	Plane	Flare Location	County
18:05	160P	In air	
18:40	160P	325° @ 40 NM	Medina
18:41	160P	327 @ 42	Medina
18:42	160P	326 @ 41	Medina
18:43	160P	327 @ 41	Medina
18:51	160P	318 @ 51	Bandera
18:52	160P	317 @ 49	Bandera
18:53	160P	318 @ 50	Bandera
18:55	160P	319 @ 49	Bandera
18:55	160P	318 @ 50	Bandera
19:18	160P	298 @ 51	Medina
19:19	160P	295 @ 52	Medina
19:20	160P	294 @ 53	Medina
19:21	160P	292 @ 54	Medina
19:22	160P	292 @ 53	Medina
19:26	160P	296 @ 50	Medina
19:27	160P	298 @ 46	Medina
19:28	160P	300 @ 45	Medina
19:29	160P	302 @ 42	Medina
19:30	160P	304 @ 41	Medina
19:32	160P	308 @ 39	Medina
19:33	160P	311 @ 38	Medina
19:34	160P	315 @ 38	Medina
19:35	160P	318 @ 37	Medina
19:36	160P	320 @ 38	Medina
19:39	160P	325 @ 40	Medina
19:40	160P	328 @ 41	Medina
19:41	160P	330 @ 41	Bexar
19:42	160P	331 @ 39	Bexar
19:43	160P	328 @ 40	Bexar
19:45	160P	321 @ 39	Medina
19:55	57AA	In air	
20:11	160P	Landed	
20:14	57AA	289 @ 32	Medina
20:16	57AA	285 @ 34	Medina
20:17	57AA	285 @ 32	Medina
20:20	57AA	282 @ 33	Medina

20:21	57AA	282 @ 32	Medina
20:43	57AA	288 @ 61	Uvalde
20:45	57AA	287 @ 60	Uvalde
20:47	57AA	286 @ 59	Uvalde
20:49	57AA	285 @ 60	Uvalde
20:52	57AA	286 @ 58	Uvalde
21:18	57AA	276 @ 53	Uvalde
21:20	57AA	277 @ 54	Uvalde
21:22	57AA	278 @ 53	Uvalde
21:27	57AA	277 @ 54	Uvalde
21:29	57AA	276 @ 53	Uvalde
22:15	57AA	57 @ 14	Wilson
22:16	57AA	53 @ 14	Wilson
22:17	57AA	58 @ 14	Wilson
22:18	57AA	55 @ 14	Wilson
22:38	57AA	314 @ 11	Atascosa
22:39	57AA	301 @ 10	Atascosa
22:50	57AA	Landed	

Seeding operations were conducted over Atascosa (4 + 0H), Bandera (10 + 1H), Bexar (6 + 0H), Medina (54 + 6H), Uvalde (20 + 2H), and Wilson (8 + 1H) counties. 102 flares plus 10 hygroscopic flares were burned within 2+ clouds. This is the 4th day for seeding in May and the 5th day for seeding during the season.