

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

SEEDING REPORT – August 3, 2017

SYNOPTIC/MESOSCALE CONDITIONS:

Scattered showers and thunderstorms are moving south along an east to west trough of low pressure this morning, with locally heavy rain possible. Rain currently stretches from Eagle Pass east all the way through Victoria and to the coast. A few isolated showers continue north along the I-35 region while patchy fog is possible east of San Antonio. Fog possible through the early to mid morning hours. The rain looks to continue moving south/southeast through the morning hours while slowly dissipating. Mostly cloudy to cloudy skies in the morning, with partly cloudy skies by the mid afternoon hours. Isolated showers and thunderstorms look to develop in the early afternoon, mainly south and east of hill country. Locally heavy rain possible. As drier air moves in this afternoon, rain looks to move out of the region by this evening. High temperatures in the upper 80's, lower 90's with cooler temps across hill country. Extreme south TX could still reach the mid to upper 90's. Mostly cloudy overnight with scattered then isolated showers and thunderstorms. Patchy fog is possible in the overnight hours. Overnight low temps in the upper 70's, lower 80's with cooler temps over hill country.

LIFTING MECHANISM:

Daytime heating, weak trough, and outflow boundaries.

THERMODYNAMIC INDICES (12Z KCRP)

KCRP Freezing Level (m)	5093.84	KDRT Freezing Level (m)	5156.47
Precipitable Water (Inches)	2.42	CAPE (J/Kg)	2034.72
LCL (m)	150.86	CINH (J/Kg)	7.76
CCL (m)	962.47	LI (degrees C)	-4.71
Cloud Base (m)	1305	PB	5.1
Warm Cloud Depth (m)	3788.84	Cloud Base Temp (degrees C)	25
CRP -15°C height (m)	~7700	DRT -15°C height (m)	~7700
CRP ICA	-6.6	DRT ICA	-32.6

DISCUSSION: A few isolated showers developed north of Bexar county just before 20Z. After 20Z one isolated storm developed over northern Bexar county and continued traveling southeast. As storm moved towards Wilson county launched pilot to investigate. Pilot began seeding storm in Wilson county before moving on to another smaller storm to the east. Additional storms started forming in medina county so launched second pilot after 22:30Z. Multiple smaller storms merged with the storm in Wilson to create a broken line of storms from Wilson to Gonzales counties. Sent first pilot to investigate developing clouds in Medina county while second pilot continued to seed storms in Wilson county as they moved south. Storms formed a solid but small east to west line. Second pilot found multiple short lived storms in Medina county, but none lasted long even with seeding. Storm in Wilson county was slowly losing strength after 23Z and by 00Z storm lost all inflow. Pilot continued to seed a few robust storms in Uvalde before storms weakened and nighttime approached.

Warnings: None

Seeded cell ID's: 2889, 3156, 3229, 3276, 3337, 3355, unidentified

Flight Information:

Time (UTC)	Plane	Flare Location	County
21:55	57AA	In air	
22:14	57AA	27 @ 16 NM	Wilson
22:19	57AA	34 @ 24	Wilson
22:26	57AA	41 @ 31	Wilson
22:33	57AA	47 @ 36	Wilson
22:48	57AA	55 @ 37	Wilson
22:52	57AA	51 @ 33	Wilson
22:51	160P	In air	
22:55	57AA	50 @ 29	Wilson
23:07	160P	60 @ 41	Wilson
23:09	160P	58 @ 36	Wilson
23:10	160P	57 @ 32	Wilson
23:30	57AA	290 @ 30	Medina
23:36	160P	57 @ 30	Wilson
23:40	57AA	301 @ 46	Medina
23:42	160P	66 @ 37	Karnes
0:07	57AA	280 @ 57	Uvalde
0:08	57AA	284 @ 58	Uvalde
0:10	57AA	281 @ 58	Uvalde
0:22	160P	Landed	
0:48	57AA	Landed	

Seeding operations were conducted over Karnes (2 + 0H), Medina (2 + 1H), Uvalde (6 + 0H), and Wilson (20 + 2H) counties. 30 flares plus 3 hygroscopic flares were burned within 6+ clouds. This is the 2nd day for seeding in August and the 27th day for seeding during the season.