

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

**SEEDING REPORT – April 11, 2017**

**SYNOPTIC/MESOSCALE CONDITIONS:**

Mostly cloudy across south TX with scattered showers and thunderstorms across central Texas along a stationary front. With abundant moisture still lingering over south TX, isolated showers and thunderstorms are possible throughout the day. Storms look to be more scattered over eastern TX. A few storms could be strong and heavy rain is still possible. High temperatures in the mid to upper 70's with cooler temps over hill country. Mostly then partly cloudy overnight with low temps in the lower to mid 60's with cooler temps over hill country.

**LIFTING MECHANISM:**

Weak cold front moving south and daytime heating

**THERMODYNAMIC INDICES (12Z KDRT)**

KCRP Freezing Level (m)	4618.73	KDRT Freezing Level (m)	4263.68
Precipitable Water (Inches)	1.45	CAPE (J/Kg)	2350.83
LCL (m)	830.13	CINH (J/Kg)	3.50
CCL (m)	874.74	LI (degrees C)	-6.37
Cloud Base (m)	717	PB	7
Warm Cloud Depth (m)	3547	Cloud Base Temp (°C)	19
CRP ICA	-0.6	DRT ICA	0.3

**DISCUSSION:** Scattered showers and thunderstorms had been slowly moving south throughout the day as a weak cold front slowly moved south through central TX. After 18:30Z the storms were north of San Antonio heading south. In addition, scattered storms were developing over Uvalde, Median, and Bandera counties from daytime heating. An east to west line of storms formed from Uvalde county east all the way into eastern TX after 19Z, with the line slowly moving south. Launched first pilot at 19:13Z and seeding began on storms in Wilson county after 19:30Z. Launched second pilot at 19:42Z heading towards Medina county. Second pilot seeded clouds in medina county, while first seeded in Wilson just south of Bexar county line. More storms formed over Frio and McMullen counties but with only two aircraft they could not be reached. First pilot started seeding storms in Atascosa north of Pleasanton as weak E-W line of storms formed. Storms consolidated into unbroken line after 20:45Z. First pilot ran out of flares and returned to base, second pilot was called off storms because of widespread heavy rain and darkening skies. Second pilot returned at 21:45Z.

**Warnings:** none that affected operations

**Seeded cell ID's:** 21, 1723, 1789, 1919, 2114, 2211

**Flight Information:**

Time (UTC)	Plane	Flare Location	County
19:30	160P	In air	
19:36	160P	54° @ 32 NM	Wilson
19:37	160P	54° @ 33 NM	Wilson
19:38	160P	52° @ 31 NM	Wilson

19:38	160P	51° @ 30 NM	Wilson
19:40	160P	55° @ 30 NM	Wilson
19:42	57AA	In air	
19:48	160P	61° @ 26 NM	Wilson
19:48	160P	60° @ 26 NM	Wilson
19:50	160P	68° @ 28 NM	Wilson
19:51	160P	63° @ 28 NM	Wilson
19:52	160P	62° @ 26 NM	Wilson
20:01	160P	26° @ 12 NM	Wilson
20:01	160P	31° @ 11 NM	Wilson
20:02	160P	30° @ 12 NM	Wilson
20:03	160P	21° @ 11 NM	Wilson
20:05	57AA	299° @ 42 NM	Medina
20:05	160P	24° @ 12 NM	Wilson
20:19	57AA	306° @ 40 NM	Medina
20:20	160P	293° @ 5 NM	Atascosa
20:21	160P	286° @ 7 NM	Atascosa
20:22	160P	289° @ 9 NM	Atascosa
20:23	160P	286° @ 10 NM	Atascosa
20:24	160P	282° @ 8 NM	Atascosa
20:25	57AA	310° @ 39 NM	Medina
20:29	57AA	310° @ 39 NM	Medina
20:31	57AA	301° @ 38 NM	Medina
20:32	160P	107° @ 5 NM	Atascosa
20:33	160P	99° @ 6 NM	Atascosa
20:34	160P	95° @ 8 NM	Atascosa
20:35	160P	92° @ 9 NM	Atascosa
20:36	160P	85° @ 11 NM	Atascosa
20:47	160P	86° @ 27 NM	Karnes
20:48	160P	87° @ 30 NM	Karnes
20:49	160P	87° @ 31 NM	Karnes
20:50	160P	85° @ 32 NM	Karnes
20:51	160P	86° @ 35 NM	Karnes
21:12	160P	Landed	
21:25	57AA	Landed	

Seeding operations were conducted over Atascosa (20 + 2H), Karnes (10 + 1H), Medina (10 + 4H), and Wilson (30 + 3H) counties. 70 flares plus 10 hygroscopic flares were burned within 6 clouds. This is the 1<sup>st</sup> day for seeding in April and the 1<sup>st</sup> day for seeding during the season.