

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

**SEEDING REPORT – July 12, 2017**

**SYNOPTIC/MESOSCALE CONDITIONS:**

Partly cloudy across south Texas this morning, with isolated weak showers near Laredo. These showers look to gradually weaken as they move off to the northwest throughout the morning. Strong high pressure over the Eastern US is moving moisture from the Gulf into the region, with partly cloudy skies today and isolated afternoon showers and thunderstorms. A weak trough of low pressure looks to move west of San Antonio this afternoon, where isolated scattered showers and storms are possible. High temperatures in the mid to upper 90's. Isolated showers and storms this evening then becoming partly to mostly cloudy overnight. Low temps in the mid to upper 70's. Patchy fog possible after midnight.

**LIFTING MECHANISM:**

Daytime heating, and outflow boundaries.

**THERMODYNAMIC INDICES (12Z KCRP)**

KCRP Freezing Level (m)	4780.12	KDRT Freezing Level (m)	4936.53
Precipitable Water (Inches)	1.77	CAPE (J/Kg)	1758.92
LCL (m)	129.68	CINH (J/Kg)	21.97
CCL (m)	1043.57	LI (degrees C)	-4.07
Cloud Base (m)	1237	PB	3.1
Warm Cloud Depth (m)	3543.12	Cloud Base Temp (°C)	22
CRP ICA	-9.1	DRT ICA	-12.5

**DISCUSSION:** Small scattered showers began developing south of San Antonio after 16Z. By 17:30Z these became scattered showers and thunderstorms and launched pilot. Pilot started seeding in Karnes county before moving on to a stronger storm in Karnes. Plane 47P was airborne and burned 2 hygroscopic flares in a strong storm in western Atascosa county after 18:40Z. Plane 47P landed and the first pilot seeded storms in southern Bexar county before these storms moved north. Pilot then proceeded to Wilson where more cloud seeding was done. Isolated storms started forming after 20Z from Atascosa east through Karnes, so sent pilot to Karnes to see how strong the storm inflow on these storms was. First pilot landed to refuel but 47P took off and seeded a strong storm in northern Live Oak county. This storm persisted into Atascosa county but began weakening after 21:30Z. First pilot took off again and sent 47P home, then first pilot began investigating small storms which would occasionally pop up throughout Atascosa county, however storms were generally weak and did not last more than one hour. Pilot eventually found one storm which was stronger and lasted a bit longer, so more seeding was done. The pilot seeded the last storm of the day in Medina county before all storms dissipated and pilot headed home.

**Warnings:** None

**Seeded cell ID's:** 600, 552, 559, 629, 541, 634, 683, 710, 737, undefined, 820, 851

**Flight Information:**

Time (UTC)	Plane	Flare Location	County
18:10	160P	In air	
18:22	160P	91° @ 37 NM	Karnes
18:23	160P	91 @ 36	Karnes
18:36	160P	57 @ 26	Wilson
18:36	160P	56 @ 26	Wilson
18:37	160P	56 @ 27	Wilson
18:39	160P	51 @ 26	Wilson
18:39	160P	53 @ 26	Wilson
18:41	160P	52 @ 27	Wilson
18:42	47P	310 @ 17	Atascosa
18:46	47P	319 @ 15	Atascosa
18:59	160P	324 @ 21	Bexar
19:00	160P	323 @ 21	Bexar
19:01	160P	325 @ 20	Bexar
19:15	160P	344 @ 17	Bexar
19:16	160P	353 @ 15	Bexar
19:17	160P	352 @ 16	Bexar
19:18	160P	347 @ 18	Bexar
19:19	160P	351 @ 17	Bexar
19:31	160P	49 @ 23	Wilson
19:32	160P	54 @ 24	Wilson
19:32	160P	54 @ 25	Wilson
19:36	160P	61 @ 21	Wilson
19:44	160P	91 @ 14	Atascosa
19:45	160P	96 @ 15	Atascosa
19:58	160P	36 @ 27	Wilson
19:58	160P	33 @ 27	Wilson
20:00	160P	36 @ 27	Wilson
20:17	160P	73 @ 20	Wilson
20:17	160P	75 @ 22	Wilson
20:25	47P	In air	
20:31	160P	Landed	
20:55	47P	106 @ 27	Karnes
20:56	47P	103 @ 28	Karnes
20:58	47P	103 @ 25	Karnes
20:57	160P	In air	

21:00	47P	99 @ 27	Karnes
21:05	160P	101 @ 38	Karnes
21:09	160P	100 @ 37	Karnes
21:10	160P	98 @ 37	Karnes
21:11	47P	Landed	
21:22	160P	114 @ 25	Live Oak
21:22	160P	115 @ 27	Live Oak
21:23	160P	116 @ 28	Live Oak
21:33	160P	123 @ 19	Atascosa
22:00	160P	206 @ 4	Atascosa
22:22	160P	273 @ 8	Atascosa
22:23	160P	266 @ 9	Atascosa
22:23	160P	269 @ 8	Atascosa
22:50	160P	275 @ 47	Medina
22:58	160P	278 @ 47	Medina
23:34	160P	Landed	

Seeding operations were conducted over Atascosa (14 + 3H), Bexar (16 + 1H), Karnes (18 + 1H), Live Oak (6 + 1H), Medina (4 + 0H), and Wilson (30 + 1H) counties. 88 flares plus 7 hygroscopic flares were burned within 11+ clouds. This is the 3<sup>rd</sup> day for seeding in July and the 16<sup>th</sup> day for seeding during the season.