

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

SEEDING REPORT – August 10, 2017

SYNOPTIC/MESOSCALE CONDITIONS:

Partly to mostly cloudy with isolated showers and thunderstorms in the afternoon, mainly south and east of San Antonio. Afternoon seabreeze convection could be enhanced by a hurricane passing south through Mexico. High temperatures in the mid to upper 90's. Isolated showers and storms in the early evening, then partly cloudy with overnight lows in the lower to mid 70's.

LIFTING MECHANISM:

Daytime heating, seabreeze, and outflow boundaries.

THERMODYNAMIC INDICES (12Z KCRP)

KCRP Freezing Level (m)	5131.00	KDRT Freezing Level (m)	5309.41
Precipitable Water (Inches)	2.19	CAPE (J/Kg)	1763.43
LCL (m)	98.51	CINH (J/Kg)	9.79
CCL (m)	874.42	LI (degrees C)	-3.85
Cloud Base (m)	1586	PB	2.3
Warm Cloud Depth (m)	3545	Cloud Base Temp (degrees C)	24
CRP -15°C height (m)	~7900	DRT -15°C height (m)	~7700
CRP ICA	-10.4	DRT ICA	-13.3

DISCUSSION: One pilot was ill and could not fly, and the meteorologist was late arriving because he was traveling back from a business meeting in San Angelo. Isolated storms began forming from a seabreeze in the early afternoon, and continued to move northeast throughout the afternoon. Operations took place after 21Z and isolated storms were forming along a seabreeze over southwestern Atascosa, southeastern Frio county. Seeded storms seemed to respond well, with the first storm seeded before it even had a titan ID number. Cross sections showed seeded storms grew taller than non seeded storms. Even with seeding storms really started dissipating after 22Z as temperatures started to cool and seabreeze weakened. Pilot found more small showers in southeastern Medina county after 22:40Z and began seeding again. Pilot continued seeding small showers into southwestern Bexar county until pilot ran out of flares.

Warnings: None

Seeded cell ID's: 1276, 1257, 1103, 1363, 1361, 1360, 1469, 1503, 1566

Flight Information:

Time (UTC)	Plane	Flare Location	County
21:03	57AA	In air	
21:14	57AA	212 @ 12 NM	Atascosa
21:16	57AA	214 @ 11	Atascosa
21:17	57AA	217 @ 11	Atascosa

21:21	57AA	235 @ 14	Atascosa
21:22	57AA	23 @ 14	Atascosa
21:23	57AA	233 @ 14	Atascosa
21:32	57AA	246 @ 25	Frio
21:33	57AA	247 @ 26	Frio
21:34	57AA	248 @ 27	Frio
21:44	57AA	245 @ 39	Frio
21:45	57AA	244 @ 40	Frio
21:46	57AA	246 @ 40	Frio
21:51	57AA	248 @ 45	Frio
21:52	57AA	247 @ 44	Frio
21:54	57AA	249 @ 45	Frio
22:00	57AA	250 @ 42	Frio
22:01	57AA	251 @ 40	Frio
22:02	57AA	251 @ 41	Frio
22:41	57AA	303 @ 23	Medina
22:42	57AA	302 @ 23	Medina
22:49	57AA	326 @ 19	Bexar
22:50	57AA	324 @ 19	Bexar
22:51	57AA	324 @ 20	Bexar
22:58	57AA	321 @ 25	Bexar
23:14	57AA	Landed	

Seeding operations were conducted over Atascosa (12 + 1H), Bexar (7 + 0H), Frio (24 + 1H), and Medina (4 + 0H) counties. 47 flares plus 2 hygroscopic flares were burned within 9 clouds. This is the 4th day for seeding in August and the 29th day for seeding during the season.