

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

SEEDING REPORT – July 16, 2017

SYNOPTIC/MESOSCALE CONDITIONS:

A broad upper level low pressure is over the Gulf bringing in dry air from central TX into south TX. Isolated to scattered showers and thunderstorms are possible in the later afternoon as heating erodes the cap. High temperatures in the mid to upper 90's. Isolated showers and storms in the evening then mostly cloudy overnight. Overnight low temps in the mid to upper 70's with cooler temps over hill country. Patchy fog possible after midnight.

LIFTING MECHANISM:

Daytime heating, and outflow boundaries.

THERMODYNAMIC INDICES (12Z KDRT)

KCRP Freezing Level (m)	4766.80	KDRT Freezing Level (m)	4825.35
Precipitable Water (Inches)	1.94	CAPE (J/Kg)	289.74
LCL (m)	759.83	CINH (J/Kg)	177.41
CCL (m)	2266.01	LI (degrees C)	-2.43
Cloud Base (m)	2342	PB	-0.9
Warm Cloud Depth (m)	2483.35	Cloud Base Temp (°C)	20
CRP -15°C height (m)	~7500	DRT -15°C height (m)	~7500
CRP ICA	-9	DRT ICA	-10.9

DISCUSSION: A strong cap held off most of the clouds until the early afternoon. Isolated showers started forming over Real and Uvalde county after 20:30Z. launched pilot to investigate. Pilot began seeding storms over Uvalde county after 21:20Z. These storms did not last long even with seedings. Pilot than went to investigate a larger complex of storms moving south into northwestern Uvalde county. Pilot put 2 flares into a developing cell on the side of the large complex, but the storms then moved out of the region. As pilot was heading home more storms developed in central Uvalde so pilot began seeding again at 23Z. Additional storms formed in central Uvalde and pilot continued seeding until just after 00:30Z.

Warnings: None

Seeded cell ID's: 1143, 421, 1666, 1847, 1895, 1908

Flight Information:

Time (UTC)	Plane	Flare Location	County
20:55	57AA	In air	
21:28	57AA	278 @ 59 NM	Uvalde
21:49	57AA	284 @ 90	Uvalde
23:03	57AA	286 @ 71	Uvalde
23:26	57AA	284 @ 73	Uvalde

23:31	57AA	280 @ 71	Uvalde
23:43	57AA	277 @ 72	Uvalde
23:59	57AA	273 @ 77	Uvalde
0:11	57AA	280 @ 74	Uvalde
0:13	57AA	279 @ 74	Uvalde
0:24	57AA	272 @ 75	Uvalde
0:29	57AA	270 @ 71	Uvalde
0:33	57AA	273 @ 70	Uvalde
1:08	57AA	Landed	

Seeding operations were conducted over Uvalde (23 + 0H) county. 23 flares plus 0 hygroscopic flares were burned within 6 clouds. This is the 7th day for seeding in July and the 20th day for seeding during the season.