

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

SEEDING REPORT – August 4, 2017

SYNOPTIC/MESOSCALE CONDITIONS:

Mostly clear across south Texas this morning with scattered fog east of San Antonio and patchy fog south of San Antonio. Fog looks to last through the early morning hours. Isolated morning showers also possible near Austin. Weak high pressure is centered over northeastern TX, with a weak trough along the coast. Partly cloudy today with isolated afternoon showers and thunderstorms mainly south and east of San Antonio. High temperatures in the mid to upper 90's with cooler temps over hill country. Isolated showers and storms look to continue through the late evening hours, then mostly cloudy overnight. Low temps in the mid to upper 70's with cooler temps over hill country.

LIFTING MECHANISM:

Daytime heating, and outflow boundaries.

THERMODYNAMIC INDICES (12Z KCRP)

KCRP Freezing Level (m)	5428.56	KDRT Freezing Level (m)	5341.73
Precipitable Water (Inches)	2.21	CAPE (J/Kg)	1416.94
LCL (m)	75.39	CINH (J/Kg)	27.26
CCL (m)	1302.39	LI (degrees C)	-2.41
Cloud Base (m)	1672	PB	-0.5
Warm Cloud Depth (m)	3756.56	Cloud Base Temp (degrees C)	21
CRP -15°C height (m)	~7800	DRT -15°C height (m)	~7700
CRP ICA	-12.9	DRT ICA	-15.3

DISCUSSION: Isolated showers began forming south of Pleasanton after 19Z. Launched pilot to investigate and pilot found a few areas of weak inflow, but the better inflow was outside the operational area. Pilot continued seeding on isolated cells in Bee county, while two stronger cells in central Bee seemed to respond better than other cells in northern and far southern Bee. Seeding in Bee ended after 21Z when storms were either weakening or moving out of the operational area. Sent pilot to investigate developing showers in northern Wilson county from a strong outflow. No cells developed over Wilson so pilot returned for fuel. Launched second pilot to investigate developing showers over Uvalde, Medina, and Bandera counties. Second pilot burned a few flares in a weak shower with sufficient updraft, but storm did not last long. Pilot returned after 23:30Z.

Warnings: None

Seeded cell ID's: 1139, 1138, 1243, 1267, 1442

Flight Information:

Time (UTC)	Plane	Flare Location	County
19:22	160P	In air	

19:51	160P	127 @ 22	Live Oak
20:01	160P	125 @ 41	Bee
20:40	160P	118 @ 45	Bee
20:54	160P	114 @ 59	Bee
21:09	160P	113 @ 49	Bee
21:58	57AA	In air	
22:10	160P	Landed	
22:37	57AA	291 @ 65	Uvalde
22:57	57AA	290 @ 66	Uvalde
23:32	160P	In air	
23:21	160P	Landed	
23:39	57AA	Landed	

Seeding operations were conducted over Bee (8 + 3H), Live Oak (2 + 0H), and Uvalde (4 + 1H) counties. 14 flares plus 4 hygroscopic flares were burned within 5 clouds. This is the 3rd day for seeding in August and the 28th day for seeding during the season.