

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

SEEDING REPORT – August 21, 2017

SYNOPTIC/MESOSCALE CONDITIONS:

Mostly clear across south Texas this morning, with areas of mostly cloudy skies over hill country. The strong high pressure which has kept south TX dry these past few weeks begins to weaken today, with partly cloudy skies and increasing moisture leading to isolated afternoon showers and thunderstorms along the coast and coastal plains. High temperatures in the mid to upper 90's with warmer temps along the Rio Grande Plains. High Heat Index Values still possible today. Breezy conditions possible later this afternoon through evening. Partly cloudy overnight with 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)	5187.99	KDRT Freezing Level (m)	4946.17
Precipitable Water (Inches)	1.86	CAPE (J/Kg)	1802.31
LCL (m)	102.58	CINH (J/Kg)	1.61
CCL (m)	803.49	LI (degrees C)	-3.44
Cloud Base (m)	1498	PB	-0.7
Warm Cloud Depth (m)	3689.99	Cloud Base Temp (degrees C)	23
CRP -15°C height (m)	~7750	DRT -15°C height (m)	~7600
CRP ICA	-14.6	DRT ICA	-7.5

DISCUSSION: Isolated showers began forming from daytime heating in Atascosa county after 20Z. Strong cap kept the storms from developing vertically. Showers persisted so launched pilot. Pilot found sufficient inflow on weak shower in southern Atascosa county so began seeding after 21Z. Pilot then investigated multiple other showers but none seemed to have sufficient or long lived inflow. Pilot tried seeding inflow on a strong storm on Atascosa/Frio county line, but storm was dissipating as pilot burned flares. Pilot had trouble finding inflow until end of storm lifetime. Numerous small showers developed throughout the afternoon but none lasted long, even with seeding material added. Recalled pilot when all storms dissipated after 22:30Z

Warnings: None

Seeded cell ID's: 86, 92, 91

Flight Information:

Time (UTC)	Plane	Flare Location	County
21:00	160P	In air	
21:23	160P	141 @ 21 NM	Atascosa

21:24	160P	146 @ 20	Atascosa
21:26	160P	142 @ 22	Atascosa
22:00	160P	239 @ 20	Frio
22:00	160P	243 @ 20	Frio
22:18	160P	164 @ 20	McMullen
22:19	160P	167 @ 19	McMullen
23:07	160P	Landed	

Seeding operations were conducted over Atascosa (6 + 0H), Frio (4 + 1H), and McMullen (4 + 1H) counties. 14 flares plus 2 hygroscopic flares were burned within 3 clouds. This is the 6th day for seeding in August and the 31th day for seeding during the season.