

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

SEEDING REPORT – July 15, 2017

SYNOPTIC/MESOSCALE CONDITIONS:

Partly cloudy with isolated to scattered afternoon thunderstorms. High temperature in the upper 90's, lower 100's. Isolated showers and thunderstorms before midnight. Low temps in the mid to upper 70's. Patchy fog after midnight.

LIFTING MECHANISM:

Daytime heating, weak MCS, and outflow boundaries.

THERMODYNAMIC INDICES (12Z KCRP)

KCRP Freezing Level (m)	4862.71	KDRT Freezing Level (m)	4858.54
Precipitable Water (Inches)	1.78	CAPE (J/Kg)	522.88
LCL (m)	13.00	CINH (J/Kg)	181.84
CCL (m)	2020.40	LI (degrees C)	-1.38
Cloud Base (m)	2306	PB	3.7
Warm Cloud Depth (m)	2556.71	Cloud Base Temp (°C)	21
CRP ICA	-10	DRT ICA	-10.6

DISCUSSION: Isolated showers began developing after 20Z over hill country. These storms began moving south into the target area after 21Z. Pilot intercepted and began seeding in eastern Bandera county before moving on into Medina county. As storms slowly moved south, pilot continued to slowly move west. The storms were forming on a southward moving outflow boundary. Pilot continued seeding storms into Uvalde county after 23Z. The storms were either weakening or too efficient by 00Z, so sent pilot after developing storms in Wilson county. Pilot seeded a few storms before he had to return because rain and low visibility was moving into the airport region.

Warnings: None that affected seeding

Seeded cell ID's: 536, 1082, 1288, 1431, 1428, 1462, 1731, 1760, 1902, 1699, 1459, 2142

Flight Information:

Time (UTC)	Plane	Flare Location	County
21:04	57AA	In air	
21:37	57AA	327° @ 46 NM	Bandera
21:46	57AA	313 @ 50	Medina
22:13	57AA	305 @ 48	Medina
22:19	57AA	304 @ 44	Medina
22:34	57AA	304 @ 73	Bandera
22:39	57AA	302 @ 70	Bandera

23:17	57AA	294 @ 62	Uvalde
23:23	57AA	294 @ 73	Uvalde
23:36	57AA	285 @ 56	Uvalde
23:40	57AA	282 @ 49	Medina
23:43	57AA	281 @ 44	Medina
23:50	57AA	278 @ 38	Medina
0:18	57AA	37 @ 17	Wilson
0:25	57AA	64 @ 13	Wilson
0:38	57AA	Landed	

Seeding operations were conducted over Bandera (7 + 0H), Medina (11 + 0H), Uvalde (6 + 0H), and Wilson (4 + 0H) counties. 28 flares plus 0 hygroscopic flares were burned within 12 clouds. This is the 6th day for seeding in July and the 19th day for seeding during the season.