

**SOUTH TEXAS WEATHER MODIFICATION ASSOCIATION - Pleasanton, TEXAS**

**SEEDING REPORT - June 3, 2020**

**SYNOPTIC/MESOSCALE CONDITIONS:**

Upper air analysis shows a ridge over Mexico and New Mexico over parts of the Southern Plains and closed low off the Southwestern coast. At the surface, high pressure from the Northwest through the Southeast and low pressure across the far Northeast. The flow at upper levels is mainly southerly with it generally light and southeasterly at the surface. The current dew point temperature is in the middle 60s and middle 70s and the environmental temperature in the lower to middle 70s with broken clouds to overcast skies and a few areas of fog/mist. For today, the upper-level low across the Red Rivers will continue to track east as a ridge of high pressure across the west begins to build in. A cap inversion and dry air subsidence will eventually take hold of our weather. Meanwhile, with sufficient moisture and day time heating, afternoon and early evening showers and thunderstorms are possible mainly near the coast but some isolated activities could spread to areas along the I-35 corridor. With decreasing cloud coverage and storms, the temperature will increase a few degrees from yesterday. The upper-level ridge will continue to build over during the second half of the week. Subsidence aloft will bring dry weather Thursday through Saturday with the temperature increasing a degree or two each consecutive day. The highs are progged to be in the upper 80s and middle 90s with the lows in the upper 60s and lower 70s through the end of the forecast period.

**LIFTING MECHANISM:**

Upper-Level Low, Cold Air Aloft, Sea Breeze

**THERMODYNAMIC INDICES (12Z KCRP)**

Freezing Level (m)	4761.38	CAPE (J/Kg)	867.67
Precipitable Water (inches)	1.87	CINH (J/Kg)	13.55
LCL	701.48	LI (°C)	-2.60
CCL	950.58	PB	-2.60
CRP ICA	-17.87	Cloud Base Temp (°C)	23.7
Cloud Base (meters)	873.77		
Warm Cloud Depth (meters)	3887.61		

**DISCUSSION:**

Conditions today were similar to yesterday except less active. 47P was called out to seed a cell across the Karnes county first before going to Bee County. After it was done with Karnes it headed to Bee County but it seeded that cell across the edge of the Karnes County instead even though much of the cell was across the Bee County. Afterward, 47P was sent to eastern McMullen; however, when the aircraft approached the cell the pilot reported no good clouds associated with it and he was unable to get anything from it. After the cells were dissipating, 47P head back to base. 47P was launched a second time but this time across the Wilson County as some spotty cells were firing up the Wilson County. The pilot reported 100ft inflow which was non-seedable. After investigating cell/s across the Wilson County, 47P Was sent to the southern Atascosa County. The pilot stated that the cell was not looking good on his end. It also was not looing that great on the radar from my end either. However, 47P still decided to release a few of the seeding materials in that cell in hopes of starting up something. When 47P was done, it returned to base for the evening as conditions began to settle.

**WATCHES/WARNINGS:**

N/A

**SEEDED CELL ID'S:**

862	883	1108							
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**FLIGHT INFORMATION:**

TIME (Z)	Plane	Flare Location	County
21:30	47P	In Air	
21:34	47P	91° @ 31 nm	Karnes
21:35	47P	88° @ 30 nm	Karnes
21:36	47P	90° @ 29 nm	Karnes
21:49	47P	112° @ 39 nm	Karnes
21:50	47P	115° @ 40 nm	Karnes
21:51	47P	116° @ 41 nm	Karnes
22:32	47P	Recon	
22:52	47P	In Air	
23:23	47P	139° @ 16 nm	Atascosa
23:24	47P	139° @ 15 nm	Atascosa
23:25	47P	138° @ 15 nm	Atascosa
23:43	47P	Landed	

Seeding operations were conducted in Atascosa (6+0H), and Karnes (12+0H) Counties. 15 flares plus 0 hygroscopic flares were burned within 3 clouds. This is the 2<sup>nd</sup> day for seeding in June and the 11<sup>th</sup> day for seeding during the season.