

SOUTH TEXAS WEATHER MODIFICATION ASSOCIATION - Pleasanton, TEXAS

SEEDING REPORT - September 1, 2019

SYNOPTIC/MESOSCALE CONDITIONS:

Upper air analysis shows a subtropical ridge of high pressure centered Southern California and spreading over the South Plains with a trough over the Northeast. At the surface, high pressure and with two stationary fronts, one across the Central Plains and the other across the Southeast. The flow at upper levels is light and variable with it light and southeasterly at the surface. The current dew point temperature is in the lower to middle 70s and environmental temperature in the middle 70s and lower 80s with scattered to broken in our area. For today, expect mostly dry conditions for much of the region except for along the coast and possibly parts of the southern Hill Country. Overnight, conditions settle with somewhat warm and humid evening instore. For Saturday, I'm not expecting a much of any change to our weather with an MCS expected to move from Kansas into Texas over the next 24hrs and pushing south into central Texas while weakening. I'm not expecting much energy from this during the day on Saturday. Also, an uptick in midlevel moisture could bring a slight increase in precipitable water values. However, models are trending drier and any storms that we see will be confined to near or along the coastal plains. Sunday through Monday looks to be much drier as we are forecast to be influenced by the upper-level ridge as it begins to strengthen and shift eastward across the Four Corners and Rockies. The daytime temperature is expected to be above the climatological normal due to drier weather than previously anticipated. Also, the dew point temperature should be in the 60s and 70s but with a decrease in the environmental temperature, the heat indices are expected to be in the 90s and lower 100s below the heat advisory warning threshold. The highs are progged to be in the middle 90s and lower 100s with the lows in the lower to middle 70s through the end of the forecast period.

LIFTING MECHANISM:

Outflow boundary, Weak Upper-Level Ridge, Weak Upper-Level Disturbance

THERMODYNAMIC INDICES (12Z KCRP)

Freezing Level (m)	4515.14	CAPE (J/Kg)	2260.5
Precipitable Water (inches)	1.93	CINH (J/Kg)	67.24
LCL	721.89	LI (°C)	-6.09
CCL	1073.26	PB	-6.09
CRP ICA	-23.87	Cloud Base Temp (°C)	16.5
Cloud Base (meters)	2078.74		
Warm Cloud Depth (meters)	2436.4		

DISCUSSION:

WATCHES/WARNINGS:

N/A

SEEDED CELL ID'S:

354	528	579							
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FLIGHT INFORMATION:

TIME (Z)	Plane	Flare Location	County
19:40	60P	In Air	

20:29	60P	302° @ 52 nm	Medina
20:30	60P	301° @ 54 nm	Medina
20:31	60P	298° @ 56 nm	Medina
20:32	60P	298° @ 58 nm	Medina
21:07	60P	307° @ 67 nm	Bandera
21:08	60P	306° @ 70 nm	Bandera
21:40	60P	301° @ 47 nm	Medina
21:40	60P	302° @ 46 nm	Medina
21:41	60P	301° @ 48 nm	Medina
21:44	60P	303° @ 46 nm	Medina
22:20	60P	Refueled	
22:45	60P	In Air	
23:27	60P	Landed	

Seeding operations were conducted in Bandera (4+0H) and Medina (16+0H) Counties. 20 flares plus 0 hygroscopic flares were burned within 3 clouds. This is the 1st day for seeding in September and the 29th day for seeding during the season.