

SOUTH TEXAS WEATHER MODIFICATION ASSOCIATION - Pleasanton, TEXAS

SEEDING REPORT - September 13, 2020

SYNOPTIC/MESOSCALE CONDITIONS:

Upper air analysis shows a closed low over the Central Plains and a ridge to the East. At the surface, high pressure across the Rockies, Central Plains, and much of the Great Lakes through the Northeast. The flow at upper levels is mainly variable with it north at the surface. The current dew point temperature is in the lower to middle 60s and the environmental temperature in the lower to upper 60s overcast skies across our area. For today, mainly quiet weather with just a few sprinkles this morning across the Rio Grande area and southern Hill Country early this morning with a very slight chance of afternoon showers or thunderstorms along the coast where moisture will be a little more pronounced. The max temperature will be warmer than yesterday's max but still several degrees below the climatological normal for this time of the year. For tonight, the forecast will be dry with the lows on Saturday morning at or slightly below the average. Saturday should be another dry day with the exception for the southern Edward Plateau and western Hill Country where some hi-res suggesting afternoon convection due to a moist upslope flow couple with a weak disturbance in the southwesterly flow aloft. High pressure will be in place across the Central Plains Saturday night into Sunday; however, expect a slight chance for showers and thunderstorms across the southern Edward Plateau and the Rio Grande region. Also, there may be some convective activity near the coast as the beginning for a series of tropical waves moving from east to west. The warmest day will be on Sunday as well as it is dependent on the timing of the passage of a weak cold front through our area. The ridge will continue to remain stagnant on Monday with northeasterly winds at low levels. Moisture and rain chances will begin to increase by then as the wave gets closer to our region. The precipitable water values should be around 2.0in by Monday afternoon with some showers being heavy at times and more widespread. The highs are progged to be in the upper 70s and lower 90s with the lows in the middle 60s and lower 70s through the end of the forecast period.

LIFTING MECHANISM:

Upper-level trough, Low-Level Moisture Advection, Weak Upper-Level Disturbance

THERMODYNAMIC INDICES (12Z KCRP)

Freezing Level (m)	4965.67	CAPE (J/Kg)	657.35
Precipitable Water (inches)	1.87	CINH (J/Kg)	68.87
LCL	1079.25	LI (°C)	-1.41
CCL	1611.47	PB	-1.41
CRP ICA	-13.82	Cloud Base Temp (°C)	21.1
Cloud Base (meters)	1645.92		
Warm Cloud Depth (meters)	3319.75		

DISCUSSION:

No data available due to internet issues.

A fairly quiet day across most of the target area today except for Uvalde and Bandera counties. Due to a disturbance across the west, showers and isolated thunderstorms developed early. However, there were no good cells across the target area to seed not until evening. A fairly decent cell developed across

the target Bandera county late that led me to launch 57AA from Uvalde county. 57AA successfully fired the full dose of the seeding materials into that cell before returning to base for the evening as there was no other seedable cell out there at the time.

WATCHES/WARNINGS:

N/A

SEEDED CELL ID'S:

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FLIGHT INFORMATION:

TIME (Z)	Plane	Flare Location	County
23:48	57AA	In Air	
24:19	57AA	N29.45, W99.30	Bandera
24:20	57AA	N29.44, W99.30	Bandera
24:21	57AA	N29.44, W99.31	Bandera
24:24	57AA	N29.48, W99.29	Bandera
24:25	57AA	N29.47, W99.29	Bandera
24:51	57AA		

Seeding operations were conducted in Bandera(10+0H) County. 10 flares plus 0 hygroscopic flares were burned within 1 cloud. This is the 7th day for seeding in September and the 39th day for seeding during the season.