SOUTH TEXAS WEATHER MODIFICATION ASSOCIATION – Pleasanton, TEXAS

SEEDING REPORT – September 14, 2020

SYNOPTIC/MESOSCALE CONDITIONS:

Upper air analysis shows a trough over the parts of the Southern Rockies and Southern Plains with a ridge over the Southeast and Tropical Storm Sally over the northeastern Gulf of Mexico. At the surface, strong high pressure across the Great Lakes with strong low pressure across the northeastern Gulf of Mexico. The flow at upper levels is mainly calm to light with it light and northernly at the surface. The current dew point temperature is in the upper 60s and middle 70s and the environmental temperature in the lower to middle 70s with a few clouds to clear skies across our area. For today, a cold front is across the central target area that continues to proceed southward. A few isolated showers will develop across the south and eastern counties due to an easterly wave traversing the northwestern Gulf of Mexico and coastal plains. The upper trough over the west will continue to linger blocking Tropical Storm Sally from reaching our region. By around sunset, showers and thunderstorms should begin to diminish; however, some hi-res does suggest that a few storms could linger before midnight near the coast. Tuesday morning's low is expected to be at or slightly above the normal for this time of the year. Showers and thunderstorms could redevelop on Tuesday as a plume of moisture moving from east to west and little instability with the main focus over the eastern target area. A southwesterly flow in the upper levels remains in place on Wednesday across the region. Some tropical moisture remains near the coast with isolated to scattered showers and thunderstorms developing across south-central Texas. Rain chances are expected to increase on Thursday as an upper-level trough digs southward into the region. The max temperature by then should be around the average with increase cloud coverage and an uptick in precipitation. The highs are progged to be in the middle 80s and lower 90s with the lows in the upper 60s and lower 70s through the end of the forecast period.

LIFTING MECHANISM:
Inverted Trough, Low-Level Moisture Advection, Sea Breeze

THERMODYNAMIC INDICES (12Z KCRP)

Freezing Level (m)	4837.27	CAPE (J/Kg)	715.63
Precipitable Water (inches)	2.31	CINH (J/Kg)	59.94
LCL	846.29	LI(°C)	-2.93
CCL	1300.43	PB	-2.93
CRP ICA	-17.44	Cloud Base Temp (°C)	22.2
Cloud Base (meters)	1158.24		
Warm Cloud Depth (meters)	3679.03		

DISCUSSION:
No data available due to internet issues.

Another active afternoon but this time near the Coastal Plains. Cells began to develop across parts of the southern target counties near the coast by mid to late afternoon. 60p was launched to go across the Bee counties where much of the activity was. 60P was able to at least seed one cell across the middle of the county. I also sent 60P to a cell across the southeastern side of the Bee county but by the time it approached the cell was dissipating. 60P returned to

base as much of the seeable cells were to the south and east of the target area at the time.

WATCHES/WARNINGS:
N/A

SEEDED CELL ID'S:

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FLIGHT INFORMATION:

TIME (Z)	Plane	Flare Location	County
21:00	60P	In Air	
21:12	60P	307, 46.5	Bee
21:13	60P	310, 47.4	Bee
21:14	60P	309, 46.8	Bee
22:05	60P	Landed	

Seeding operations were conducted in Bee(6+0H) County. 6 flares plus 0 hygroscopic flares were burned within 1 cloud. This is the 8th day for seeding in September and the 40th day for seeding during the season.