SOUTH TEXAS WEATHER MODIFICATION ASSOCIATION – PLEASANTON, TEXAS

SEEDING REPORT – July 6, 2023

SYNOPTIC/MESOSCALE CONDITIONS:
A weak trough axis is present from the Coastal Plains and I-35 corridor. This is expected to move west into the Hill Country and Rio Grande Plains this afternoon. Precipitable water values on the 12Z KDRT sounding show 1.90 inches and CAPE values at 1002 J/kg. Isolated showers and thunderstorms are expected to continue to develop this morning and afternoon into the early evening hours.

LIFTING MECHANISM:

THERMODYNAMIC INDICES -12Z KDRT SOUNDING

Freezing Level (m)	5143	-15°C Height (m)	7280
Precipitable Water (inches)	1.90	CAPE (J/Kg)	1002
LCL	680	CINH (J/Kg)	46
CCL (m)	1538	LI(°C)	-3.88
KDRT ICA	-5.18	PB	3.5
Cloud Base (meters)	1311	KCRP ICA	-8.68
Warm Cloud Depth (meters)	3812	Cloud Base Temp (°C)	23

DISCUSSION:
Scattered light showers have been ongoing this morning and afternoon across the target area. The first cell of the day had formed over KPEZ and 47P was on the way to investigate. Pilot seeded cell 2373 with two flares and another one a few minutes later. A military aircraft was in the area doing training exercises so he had to get off the storm. Pilot now heading north into southern Bexar/northern Atascosa County to a small cluster of showers visible on Radar. 47P reported good inflow and burned one flare. Pilot had to keep maneuvering away from military exercises and military airspace once again so the pilot now headed east to a line of showers entering Wilson County. Pilot reported the basses were too low out east. Pilot now heading back west to Uvalde to re-fuel. Cloud cover had been limiting the amount of heating across the area this afternoon but we will still remain on standby watching for additional heating with breaks in cloud cover over the next 1-2 hours. Unfortunately, the plane had some fuel issues so we were down for the rest of the day.

WATCHES/WARNINGS:NONE

SEEDED CELL ID'S:

2373	A											

FLIGHT INFORMATION:

TIME (Z)	Plane	Flare Location	County
1840	47P	IN AIR	
1914	47P	090X60	ATASCOSA
1916	47P	090X60	ATASCOSA
1938	47P	085X65	BEXAR
2015	47P	RTB	

Seeding operations were conducted over Atascosa County (3G+0H) and Bexar County (1G+0H). 4 glaciogenic flares and 0 hygroscopic flares were burned within 2 clouds. This is the 3rd day for seeding in July and the 9th day for seeding during the season. EAA Flares, 1 Glaciogenic, 0 Hygro, 5.5 AgI.

Note – changes to this season reporting – 1 hygroscopic flare = 500g, not 1kg