

SOUTH TEXAS WEATHER MODIFICATION ASSOCIATION - PLEASANTON, TEXAS

SEEDING REPORT - JULY 22, 2009

SYNOPTIC/MESOSCALE CONDITIONS:

Weak diffluence at 250mb over south Texas; 500mb high centered over Arizona with ridging over western half of country into south Texas; 500mb trough over the eastern half of the country with axis Canadian Prairies to southeastern U.S.; stationary boundary stretched west to east just north of the target area; surface high pressure over Gulf; marginal moisture availability, with PW values 1.30"-1.55"; weak to moderate instability, with CAPE values to 2500 J/kg and LI's to -5.

LIFTING MECHANISM:

Intense surface heating; convergence along stationary boundary.

DISCUSSION:

Overnight and early morning MCS activity once again was spreading a large shield of cirrus clouds southward into the northern target area. A stationary boundary was lying in a west to east fashion just north of the target area, and with some heating beneath the cirrus shield, scattered convection began to develop, with erratic movement noted. Some of this activity appeared to be heading for the far northern target area, and a plane was launched during the latter part of the afternoon to investigate, with seeding taking place along the Bandera/Kerr County line. The activity remained near Kerrville with a small part of the cloud moving briefly into northern Bandera County.

WATCHES/WARNINGS/LIMITATIONS:

Nil

The pyrotechnics were 40g AgI flares. 3 AgI flares were burned in Bandera (2) and Kerr (1) counties, totaling 120g of AgI.