

SOUTH TEXAS WEATHER MODIFICATION ASSOCIATION - PLEASANTON, TEXAS

SEEDING REPORT - MAY 24, 2010

SYNOPTIC/MESOSCALE CONDITIONS:

Surface high pressure over the northern Gulf with E and SE flow over Texas; very moist airmass up through 700mb, with PW values 1.6-1.9 inches; mid and upper level trough over western U.S. with ridge extending from Texas to Great Lakes; diffluent flow at 250mb; moderate to strong instability with CAPE values to 2500 J/kg and LI's to -8; convective temperatures 80-81°F.

LIFTING MECHANISM:

Strong surface heating; lift resulting from diffluent flow at 250mb.

DISCUSSION:

The western half of south Texas had favorable conditions for convective development - diffluent flow aloft, a moist and unstable airmass, and closer proximity to a trough located from northern Mexico across the Rockies. Convection developed close to the Rio Grande initially and then extended a little further east into the western target area. A cloud was seeded in Frio County. This activity moved north into Medina County where it then split into two separate cells near Hondo.

WATCHES/WARNINGS/LIMITATIONS:

Nil.

The pyrotechnics were 40g AgI flares. 6 flares were burned in Frio County, totaling 240g of material (156g of AgI).