

SOUTH TEXAS WEATHER MODIFICATION ASSOCIATION - PLEASANTON, TEXAS

SEEDING REPORT - JUNE 30, 2009

SYNOPTIC/MESOSCALE CONDITIONS:

Upper level high centered over Arizona with ridging eastward into Texas; deep upper level low over the Great Lakes with trough over the eastern half of the country; weak shear axis at 250mb located from Laredo to Houston; surface boundary/outflow lying west-east across the northern target area; sufficient moisture availability, with PW values 1.50"-1.90" (highest northern counties); moderate instability, with CAPE values to 2500 J/kg and LI's to -6.

LIFTING MECHANISM:

Intense surface heating; convergence along boundary.

DISCUSSION:

Scattered showers and thunderstorms developed over the southern Hill Country and Edwards Plateau during the early afternoon hours, affecting Bandera County. A flight was dispatched to investigate, with one cloud receiving AgI treatment. The pilot reported that thunderstorms west and northwest of the target area were blocking out the sun across the western half of Bandera County, which was limiting surface heating and therefore limiting instability. Just outside this "shadow area", a second cloud began to develop in north-central Bandera County and this was treated with silver iodide as well. This cloud continued to grow in size and intensity as it moved north into central Kerr County, where eventually a flood advisory was issued due to heavy rain from the slow moving storm.

WATCHES/WARNINGS/LIMITATIONS:

Flood Advisory - Kerr Co.: 2232-0030 UTC.

The pyrotechnics were 40g flares. 10 flares were burned in Medina (4) and Bandera (6) counties, totaling 400g of AgI.