

**SOUTH TEXAS WEATHER MODIFICATION ASSOCIATION - PLEASANTON, TEXAS**

**SEEDING REPORT - AUGUST 9, 2009**

**SYNOPTIC/MESOSCALE CONDITIONS:**

Inverted trough at 250mb over northeastern Mexico/south Texas; 500mb trough axis over Rockies with 500mb high centered over southeastern U.S. ridging west into Texas; surface high pressure centered over southeastern U.S.; CRP RAOB showed deep southeasterly flow up through 400mb with a PW value of 2.13", drier at DRT with a PW of 1.72"; moderate to strong instability with LI's to -8 and CAPE values in excess of 3000 J/kg; convective temps 86°F at CRP and 93°F at DRT; seabreeze moving inland during the afternoon.

**LIFTING MECHANISM:**

Intense surface heating; convergence along seabreeze boundary.

**DISCUSSION:**

During the afternoon hours the seabreeze boundary pushed into south Texas, with an orientation more north-south versus northeast-southwest across the eastern target area. Isolated to scattered convection began to develop along the boundary and a flight was dispatched to Live Oak County where a large cloud was seeded. The plane then moved over to Wilson County where two more clouds were seeded.

**WATCHES/WARNINGS/LIMITATIONS:**

Nil.

The pyrotechnics were 40g AgI flares. 8 AgI flares were burned in Live Oak (5) and Wilson (3) counties, totaling 320g of AgI.