

WEST TEXAS WEATHER MODIFICATION ASSOCIATION - SAN ANGELO, TEXAS

SEEDING REPORT - April 9, 2008

**SYNOPTIC/MESOSCALE CONDITIONS:**

Low pressure west Texas deepens moving into Oklahoma through the evening. Deep upper level trough over southern Rockies. Slow moving warm front over west Texas.

**LIFTING MECHANISM:**

Warm front; Surface heating provided instability with CAPE values ~2500J/KG and surface lapse rates near 8 C/KM. Minus 8 LI's.

**DISCUSSION:**

MOSTLY CLOUDY SKIES WERE PRESENT ACROSS THE TARGET AREA THROUGH LATE MORNING THEN BECAME PARTLY CLOUDY. CONVECTIVE TEMPERATURE AT MIDLAND WAS 80. TEMPERATURES AT 3PM WERE 85 AT SAN ANGELO AND 79 AT MIDLAND. RADAR FEED WENT DOWN JUST BEFORE 3PM; SHORTLY AFTERWARDS FIRST CLOUDS DEVELOPED OVER REAGAN COUNTY. SENT PILOT TO SEED AT 3PM. SEEDING COMMENCED OVER NORTHERN REAGAN AT 3:40 MOVING THROUGH GLASSCOCK AND STERLING. RADAR DATA WAS RETRIEVED FOR THE BEGINNING OF THE OPERATION AND LOST AGAIN AT THE END OF THE OPERATION, A SECOND PILOT SEEDED A CLOUD OVER NORTHWEST GLASSCOCK; RADAR DATA WAS NOT RETRIEVED. CLOUD HAD AROUND 500-1000 FT/MIN INFLOW. BASES WERE FOUND ~9000 FT; AT A TEMPERATURE OF 8-10°C.

**WATCHES/WARNINGS:**

Severe storm warning issued for seeded storm shortly after initiation throughout lifetime.

**SEEDED CELL ID'S:**

713,

**FLIGHT INFORMATION:**

TIME (z)	PLANE	FLARE LOCATION
1540	09P 280°	@ 55nm (RE)
1541	09P 278°	@ 57nm (GL)
1543	09P 277°	@ 57nm (GL)
1547	09P 283°	@ 52nm (GL)
1553	09P 285°	@ 52nm (GL)
1558	09P 283°	@ 51nm (GL)
1601	09P 289°	@ 48nm (GL)
1610	09P 294°	@ 46nm (GL)
1613	09P 288°	@ 46nm (GL)
1619	09P 296°	@ 43nm (ST)
1623	09P 288°	@ 46nm (ST)
1630	09P 288°	@ 46nm (ST)
1633	09P 307°	@ 41nm (ST)
1640	09P 322°	@ 41nm (ST)
1643	09P 322°	@ 39nm (ST)
1646	09P 315°	@ 39nm (ST)
1648	09P 305°	@ 37nm (ST)
1650	09P	Return to base

1718	30Y	293° @ 67nm (GL)
1721	30Y	289° @ 72nm (GL)
1726	30Y	298° @ 67nm (GL)
1732	30Y	297° @ 68nm (GL)
1734	30Y	294° @ 70nm (GL)
1745	30Y	Return to base

Seeding operations were conducted over Reagan (1), Glasscock (22), and Sterling (8) with good results. 31 flares were burned within 2 clouds. A warm front moved slowly northward through the afternoon clearing skies early afternoon producing two seedable clouds. This is the first day for seeding in April and 2<sup>nd</sup> day for seeding during the season. In "FLARE LOCATION", GL is Glasscock County, RE is Reagan County, and ST is Sterling County.