

WEST TEXAS WEATHER MODIFICATION ASSOCIATION - SAN ANGELO, TEXAS

SEEDING REPORT - May 14, 2010

**SYNOPTIC/MESOSCALE CONDITIONS:**

Low-pressure Ontario and Great Lakes with frontal boundary through North and West Texas dissecting target area. Upper level trough over the Rockies.

**LIFTING MECHANISM:**

Frontal boundary.

**DISCUSSION:**

MOSTLY CLOUDY MORNING AND AFTERNOON; THUNDERSTORMS FROM WICHITA FALLS TO BROWNWOOD EARLY. THUNDERSTORM DEVELOPING STERLING LATE MORNING; CALLED PILOT. CONDITIONS VERY MARGINAL WITH MOSTLY CLOUDY SKIES AND HAZY CONDITIONS. AIRCRAFT LAUNCHED AT 1210PM OR 1710Z ON NEW DEVELOPMENT OVER NORTHERN TARGET. CONVECTIVE TEMPERATURE AT MIDLAND WAS 73 AND 79 AT DEL RIO. 12PM TEMPERATURES WERE 86 AT SAN ANGELO AND 70 AT MIDLAND. ONLY TWO FLARES MADE IT INTO UNSEEN INFLOW AT VERY LOW BASES. SECOND MISSION 2130Z HELD BETTER CONDITIONS FOR SEEDING. PILOT REPORTED LATER THAT CONDITIONS WERE DETERIORATING; MISSION ENDED EARLY FOR LACK OF VISIBILITY - LONG DURATION THUNDERSTORMS ALSO OVER AIRPORTS. CLOUDS HAD AROUND 500-1000 FT/MIN INFLOW. BASES WERE FOUND ~6.8-7 KFT; AT A TEMPERATURE OF 11-16°C.

**WATCHES/WARNINGS:**

1800z - Severe T-Storm Warning Glasscock  
1820z - Tornado Warning E Glasscock  
2315z - Tornado Warning Reagan

**SEEDED CELL ID'S:**

5030.

**FLIGHT INFORMATION**

TIME (z)	PLANE	FLARE LOCATION
1800	30Y 283°	@ 74nm (GL)
1842	30Y	Return to base
2145	30Y 310°	@ 33nm (ST)
2149	30Y 310°	@ 33nm (ST)
2159	30Y 300°	@ 31nm (ST)
2203	30Y 275°	@ 44nm (RE)
2205	30Y 270°	@ 49nm (RE)
2211	30Y 270°	@ 50nm (RE)
2213	30Y 271°	@ 46nm (RE)
2215	30Y 275°	@ 40nm (TG)
2223	30Y 277°	@ 33nm (IR)
2228	30Y	Return to base

Seeding operations were conducted over Glasscock (2), Irion (2), Reagan (8), Sterling (8) and Tom Green (2) Counties. 22 flares were burned within 1 large system. A frontal boundary produced marginally seedable thunderstorms during mid-afternoon. This is the first day for seeding in May and 3<sup>rd</sup> day for seeding during the season. In "FLARE LOCATION", GL is Glasscock County, IR is Irion County, and RE is Reagan County, ST is Sterling County, and TG is Tom Green County.