

WEST TEXAS WEATHER MODIFICATION ASSOCIATION - SAN ANGELO, TEXAS

SEEDING REPORT - October 8, 2009

SYNOPTIC/MESOSCALE CONDITIONS:

Surface trough over West Texas early afternoon developed dryline over western target late afternoon. Upper level trough Manitoba to New Mexico.

LIFTING MECHANISM:

Trough, surface heating.

DISCUSSION:

MOSTLY CLOUDY SKIES OCCURRED DURING MORNING THEN MOSTLY SUNNY DURING AFTERNOON. MARGINALLY SEEDABLE STORMS DEVELOPED LATE MORNING; SENT PILOT TO INVESTIGATE AT 1225PM OR 1725Z. PILOT FOUND ILL DEFINED BASES BUT MARGINAL INFLOW. A SECOND FLIGHT WAS LAUNCHED AT 2150Z AS STRONG THUNDERSTORMS DEVELOPED OUTSIDE THE TARGET, 30Y RAN OUT OF FLARES ON SEVERE STORMS. RETURNED TO BASE TO RETRIEVE ANOTHER AIRCRAFT TO SEED UNTIL DARK. CONVECTIVE TEMPERATURE AT MIDLAND WAS 89 AND 100 AT DEL RIO. 12PM TEMPERATURES WERE 85 AT SAN ANGELO AND 81 AT MIDLAND. CLOUDS HAD AROUND 2-1200 FT/MIN INFLOW. BASES WERE FOUND ~5-7KFT; AT A TEMPERATURE ~15-18°C. FLIGHT TRACK DATA NOT AVAILABLE; LIGHTNING ZAPPED TELEMETRY-WORKING ON SOLUTION. *A HYGROSCOPIC (1KG) FLARE WAS USED ON A LARGE CLOUD OVER REAGAN COUNTY. *

WATCHES/WARNINGS:

Severe Thunderstorm Watch

Severe T-storm, Midland/Glasscock 2140Z

Severe T-storm, Glasscock 2252Z, Extended Sterling 2310z

Tornado Warning, Sterling 2320Z .

Severe T-storm, Upton/Glasscock 2330Z

SEEDED CELL ID'S:

689, 1078

FLIGHT INFORMATION

TIME(z) PLANE FLARE LOCATION

1746	30Y	265° @ 25nm (IR)
1746	30Y	272° @ 24nm (IR)
1746	30Y	275° @ 24nm (IR)
1800	30Y	Return to base
2217	30Y	282° @ 57nm (GL)
2220	30Y	286° @ 55nm (GL)
2223	30Y	292° @ 54nm (GL)
2226	30Y	287° @ 54nm (GL)
2228	30Y	293° @ 55nm (GL)
2239	30Y	276° @ 62nm (RE)
2243	30Y	275° @ 58nm (RE)
2245	30Y	277° @ 57nm (RE)
*2245	30Y	277° @ 57nm (RE)
2248	30Y	280° @ 55nm (RE)
2250	30Y	284° @ 57nm (GL)
2254	30Y	284° @ 54nm (GL)
2257	30Y	287° @ 54nm (GL)
2259	30Y	287° @ 51nm (GL)
2301	30Y	289° @ 51nm (GL)
2302	30Y	Return for flares

2217 24P 278° @ 55nm (RE)
2217 24P 283° @ 55nm (GL)
2217 24P 296° @ 52nm (GL)
2217 24P 287° @ 35nm (GL)
2225 24P Return to base

Seeding operations were conducted over Glasscock (34) Irion (6), and Reagan (14) Counties. 54 flares were fired within 2 clouds, one with multiple cells. A trough, dryline, and surface heating produced strong seedable thunderstorms. This is the first day for seeding in October and 56th day for seeding during the season. In "**FLARE LOCATION**", GL is Glasscock County, IR is Irion County, and RE is Reagan County.