

WEST TEXAS WEATHER MODIFICATION ASSOCIATION - SAN ANGELO, TEXAS

SEEDING REPORT - June 2, 2010

SYNOPTIC/MESOSCALE CONDITIONS:

Surface low pressure over West Texas, Dryline eastern New Mexico and Trans-Pecos moving into Target area. Upper Level low/trough West Texas. MCV moving over northwest Texas through the morning.

LIFTING MECHANISM:

Upper level Low, dryline, Sufficient surface heating.

DISCUSSION:

MOSTLY SUNNY CLOUDY MORNING AND AFTERNOON; CONVECTION EXPECTED LATER IN THE AFTERNOON BUT DEVELOPED EXPLOSIVELY OVER STERLING JUST AFTER 2PM. STORMS DEVELOPED WITHIN 20MIN TO PRODUCE HAIL; PILOT LAUNCHED WITHIN 30MIN. STORMS MATURED VERY QUICKLY WITH BASES RISING TO OVER 10K FT WITHIN AN HOUR. AFTER THE FIRST ROUND DIED OFF, A SECOND ROUND DEVELOPING ALONG OUTFLOW BOUNDARIES FURTHER SOUTH ALSO DEVELOPED VERY QUICKLY WHILE REFLARING AIRPLANES. CONVECTIVE TEMPERATURE AT MIDLAND WAS 89 AND 86 AT DEL RIO. 2PM TEMPERATURES WERE 91 AT SAN ANGELO AND MIDLAND. 5PM TEMPERATURES WERE 72 AT SAN ANGELO AND 91 AT SONORA. CLOUDS HAD AROUND 300-1500 FT/MIN INFLOW. BASES WERE FOUND ~7.2 - 12KFT; AT A TEMPERATURE OF 5-14°C.

WATCHES/WARNINGS:

2000z - Severe Thunderstorm watch for West Texas.
2035z - Severe Thunderstorm warning for Sterling and Tom Green
0000z - Severe Thunderstorm warning for Sutton County.

SEEDED CELL ID'S:

Large merged cloud over west-central Texas 964, 1110, 1196, 1274, 1597, 1723, 2560.

FLIGHT INFORMATION

TIME (z) PLANE FLARE LOCATION

1954	30Y 280° @ 16nm (IR)
1958	30Y 295° @ 22nm (TG)
2001	30Y 300° @ 25nm (ST)
2003	30Y 300° @ 30nm (ST)
2010	30Y 300° @ 33nm (ST)
2013	30Y 300° @ 27nm (ST)
2015	30Y 300° @ 21nm (TG)
2018	30Y 294° @ 18nm (IR)
2022	30Y 270° @ 13nm (IR)
2025	30Y 290° @ 16nm (IR)
2028	30Y 280° @ 19nm (IR)
2033	30Y 300° @ 27nm (TG)
2040	30Y 280° @ 34nm (ST)
2044	30Y 285° @ 36nm (ST)
2049	30Y 280° @ 37nm (ST)
2056	30Y 280° @ 46nm (GL)
2103	30Y 275° @ 42nm (RE)
2107	30Y 270° @ 48nm (RE)
2110	30Y 280° @ 45nm (RE)
2112	30Y 280° @ 46nm (RE)

2114 30Y 280° @ 50nm (RE)
 2117 30Y 280° @ 54nm (GL)
 2120 30Y 280° @ 47nm (GL)
 2130 30Y Return to base

 2038 24P 277° @ 15nm (IR)
 2042 24P 285° @ 21nm (IR)
 2047 24P 300° @ 28nm (ST)
 2049 24P 302° @ 30nm (ST)
 2054 24P 294° @ 26nm (TG)
 2057 24P 289° @ 22nm (IR)
 2102 24P 257° @ 12nm (IR)
 2109 24P 253° @ 12nm (IR)
 2112 24P 257° @ 07nm (TG)
 2121 24P 228° @ 12nm (IR)
 2130 24P Return to base

 2244 30Y 165° @ 36nm (SC)
 2246 30Y 160° @ 39nm (SC)
 2248 30Y 170° @ 39nm (SC)
 2252 30Y 180° @ 40nm (SC)
 2259 30Y 170° @ 42nm (SC)
 2306 30Y 165° @ 43nm (SC)
 2310 30Y 170° @ 45nm (SU)
 2320 30Y 190° @ 74nm (CR)
 0000 30Y 180° @ 50nm (SU)
 0002 30Y 180° @ 52nm (SU)
 0006 30Y Return to base

 2331 41P 228° @ 12nm (SU)
 41P Seeding 2flares
 Per 2-3 minutes
 Along Shelf Cloud
 Near eastern border
 To NW Sutton Co.
 0120 41P Return to base

Seeding operations were conducted on parts of all counties: Crockett (2), Glasscock (8), Irion (28), Reagan (10), Schleicher (15), Sterling (36), Sutton (112) and Tom Green (10). 211 flares were burned within 1 very large track cloud with numerous strong cells. An upper low over West Texas, sufficient surface heating, and dryline fueled strong seedable storms. This is the second day for seeding in June and 8th day for seeding during the season. In "**FLARE LOCATION**", CR is Crockett County, GL is Glasscock County, IR is Irion County, RE is Reagan County, SC is Schleicher County, ST is Sterling County, SU is Sutton County, and TG is Tom Green County.