

WEST TEXAS WEATHER MODIFICATION ASSOCIATION - SAN ANGELO, TEXAS

SEEDING REPORT - July 7, 2010

SYNOPTIC/MESOSCALE CONDITIONS:

Outflow boundary across target. Easterly upslope. Weakened shear axis West Texas. Strong ridge Mid-Atlantic States. Cold front Great Lakes to Kansas, Texas Panhandle, and Nevada. Moist tropical Wave western Gulf.

LIFTING MECHANISM:

Surface heating.

DISCUSSION:

MOSTLY SUNNY AND HOT MORNING AND AFTERNOON; marginally seedable clouds developing 1715Z. LAUNCH PLANE TO INVESTIGATE 1735Z. CONVECTIVE TEMPERATURE AT MIDLAND WAS 81 AND 83 AT DEL RIO. 12PM TEMPERATURES WERE 89 AT SAN ANGELO, 80 AT MIDLAND AND 84 AT SONORA. VERY MARGINAL CONDITIONS CONTINUED WITH SMALL AREAS OF WORKABLE BASES - LIMITED RESPONSE TO SEEDING. 2ND FLIGHT LATER INVESTIGATED ~2245Z. CLOUDS CONTAINED WEAK INFLOW WITH POOR CLOUDY CONDITIONS AT BASE. CLOUDS HAD AROUND 200-500 FT/MIN INFLOW. BASES WERE FOUND ~6-8KFT; AT A TEMPERATURE OF 15-20°C. *HYGROSCOPIC CANDIDATE: 1016 OUTSIDE TARGET*

WATCHES/WARNINGS:

None.

SEEDED CELL ID'S:

1165, 1205, 1301, 1302, 3400, 3526, 4258, 4373, 4543, 4963.

FLIGHT INFORMATION

TIME (z)	PLANE	FLARE LOCATION		
1826	41P 316° @ 34nm (ST)			
1840	41P 318° @ 32nm (ST)			
1848	41P 324° @ 41nm (ST)	2248	30Y 295° @ 15nm (TG)	
1855	41P 319° @ 42nm (ST)	2252	30Y 320° @ 17nm (TG)	
1857	41P 315° @ 39nm (ST)	2334	30Y 260° @ 63nm (RE)	
1900	41P 319° @ 42nm (ST)	2337	30Y 260° @ 64nm (RE)	
1921	41P 279° @ 61nm (ST)	0006	30Y 210° @ 75nm (CR)	
1932	41P 296° @ 59nm (ST)	0009	30Y 205° @ 73nm (CR)	
1943	41P 298° @ 59nm (GL)	0013	30Y 205° @ 72nm (CR)	
1947	41P 303° @ 51nm (ST)	0045	30Y 210° @ 52nm (CR)	
1951	41P 301° @ 50nm (ST)	0102	30Y 235° @ 46nm (CR)	
1954	41P 303° @ 53nm (GL)	0104	30Y 230° @ 45nm (CR)	
1956	41P 302° @ 52nm (GL)	0106	30Y 230° @ 45nm (CR)	
2016	41P 308° @ 50nm (GL)	0116	30Y Return to base	
2035	41P Return to base			

Seeding operations were attempted over Crockett (14), Glasscock (7), Reagan (3), Sterling (11), and Tom Green (4) County. 39 flares were burned within 11 clouds. Shear axis and surface heating produced marginal showers. This is the second day for seeding in July and 18th day for seeding during the season. In "FLARE LOCATION", CR is Crockett County, GL is Glasscock County, RE is Reagan County, ST is Sterling County and TG is Tom Green County.