

WEST TEXAS WEATHER MODIFICATION ASSOCIATION - SAN ANGELO, TEXAS

SEEDING REPORT - May 31, 2009

**SYNOPTIC/MESOSCALE CONDITIONS:**

Low pressure North Dakota / Minnesota with weak trough western Kansas and Oklahoma. High pressure Great Lakes to East Texas. Upslope and theta-E ridge over West Texas. Ridge Texas with shortwave trough New Mexico. Upper low spinning over Arizona/New Mexico.

**LIFTING MECHANISM:**

Shortwave trough, sufficient surface heating.

**DISCUSSION:**

MOSTLY SUNNY SKIES THROUGHOUT THE MORNING AND AFTERNOON WITH CUMULUS FIELD THICKENING UP OVER GLASSCOCK AND REAGAN MIDDAY. INTITAL TRACK OVER GLASSCOCK AND REAGAN AROUND 430PM. CALL PILOT TO SEED AT 430PM. MIDLAND PILOTS UNAVAILABLE, ONE AIRCRAFT AVILABLE AT SAN ANGELO. 24P SLOW TO START; STARTER NOT CONNECTING - DELAYS LAUNCH. PILOT LAUNCHED AT 455PM OR 2155Z. CONVECTIVE TEMPERATURE AT MIDLAND WAS 82 AND 85 AT DEL RIO. 4PM TEMPERATURES WERE 92 AT SAN ANGELO AND 89 AT MIDLAND. CLOUDS HAD AROUND 300-600 FT/MIN INFLOW. INFLOW REACHED 1000 FT/MIN IN A COUPLE CLOUDS. BASES WERE FOUND ~8.5-9.5 KFT; AT A TEMPERATURE OF 10°C.

**WATCHES/WARNINGS:**

Severe T-storm warning, Glasscock 0000Z

Severe T-storm warning, Reagan 0000Z

Flash flood warning Glasscock 0040Z.

**SEEDED CELL ID'S:**

439, 445-439, 975.

**FLIGHT INFORMATION**

**TIME (z) PLANE FLARE LOCATION**

2236	24P 268° @ 45nm (RE)		
2238	24P 268° @ 50nm (RE)	2348	24P 273° @ 50nm (GL)
2246	24P 286° @ 59nm (GL)	2354	24P 276° @ 37nm (TG)
2250	24P 289° @ 63nm (GL)	0023	24P 270° @ 50nm (RE)
2252	24P 288° @ 61nm (GL)	0025	24P 275° @ 54nm (RE)
2258	24P 281° @ 51nm (GL)	0032	24P 287° @ 65nm (RE)
2302	24P 276° @ 53nm (RE)	0034	24P 288° @ 69nm (GL)
2307	24P 271° @ 54nm (RE)	0037	24P 289° @ 68nm (GL)
2313	24P 282° @ 59nm (GL)	0039	24P 288° @ 67nm (GL)
2318	24P 293° @ 61nm (GL)	0052	24P 275° @ 52nm (RE)
2324	24P 300° @ 66nm (GL)	0055	24P 270° @ 50nm (RE)
2326	24P 302° @ 64nm (GL)	0100	24P Return to base
2330	24P 302° @ 58nm (GL)		
2346	24P 273° @ 53nm (GL)		

Seeding operations were conducted over Glasscock (25), Reagan (26), and the Tom Green Panhandle (2). 53 flares were burned within 3 clouds, part of a large cloud system with multiple convective cells. Surface heating and a shortwave trough produced seedable storms over the western target. This is the tenth day for seeding in May and 14<sup>th</sup> day for seeding during the season. In "FLARE LOCATION", GL is Glasscock County, RE is Reagan County, and TG is Tom Green County.