

WEST TEXAS WEATHER MODIFICATION ASSOCIATION - SAN ANGELO, TEXAS

SEEDING REPORT - May 17, 2010

**SYNOPTIC/MESOSCALE CONDITIONS:**

Low-pressure Indiana and trough to Florida. Cold front northern Texas.

**LIFTING MECHANISM:**

Outflow boundary, orographic lift and surface heating.

**DISCUSSION:**

MOSTLY SUNNY MORNING AND AFTERNOON; MCS NEAR LUBBOCK MOVING SOUTH-SOUTHEAST ARRIVES MID-AFTERNOON. LAUNCHED PILOT AS SYSTEM APPROUCHING NORTHERN TARGET ABOUT 2PM OR 19Z. CONVECTIVE TEMPERATURE AT MIDLAND WAS 77 AND 94 AT DEL RIO. 2PM TEMPERATURES WERE 87 AT SAN ANGELO AND 78 AT MIDLAND. TWO MISSIONS: FIRST FOR NORTHERN DEVELOPMENT ASSOCIATED WITH MCS MOVING SOUTHWARD; CONDITIONS FAVORABLE FOR SEEDING UNTIL MOVING THROUGH TOM GREEN. SECOND MISSION FOR STORMS MOVING INTO WESTERN TARGET; ALSO FAVORABLE FOR SEEDING FOR ONLY SHORT PERIOD OF TIME. CLOUD COVER INHIBITING SEEDABLE CONDITIONS AS TIME PROGRESSED. CLOUDS HAD AROUND 500-1000 FT/MIN INFLOW. BASES WERE FOUND ~6.8-7 KFT; AT A TEMPERATURE OF 11-16°C. \*Randomized hygroscopic subject 'NO' cell 2770.\*

**WATCHES/WARNINGS:**

1905z - Severe Storm Watch West  
2200z - Severe Storm Watch East  
2015z - Flood Advisory Sterling/Coke  
2215z - Flood Warning eastern Tom Green  
0030z - Severe Storm Warning Nw Crockett

**SEEDED CELL ID'S:**

112, 1461 merged 112. 2770 merged 2607.

**FLIGHT INFORMATION**

TIME (z)	PLANE	FLARE LOCATION		
1935	30Y 314° @ 42nm (ST)		2056	30Y 263° @ 43nm (RE)
1939	30Y 314° @ 42nm (ST)		2210	30Y Return to base
1942	30Y 312° @ 40nm (ST)		2343	30Y 240° @ 75nm (CR)
1955	30Y 292° @ 54nm (ST)		2346	30Y 240° @ 75nm (CR)
1957	30Y 293° @ 51nm (GL)		2348	30Y 240° @ 73nm (CR)
1959	30Y 293° @ 55nm (GL)		2356	30Y 230° @ 73nm (CR)
2003	30Y 294° @ 51nm (GL)		0003	30Y 236° @ 73nm (CR)
2017	30Y 303° @ 27nm (ST)		0008	30Y 234° @ 72nm (CR)
2020	30Y 307° @ 27nm (ST)		0012	30Y 233° @ 74nm (CR)
2041	30Y 277° @ 48nm (RE)		0015	30Y 233° @ 75nm (CR)
2048	30Y 270° @ 52nm (RE)		0042	30Y 228° @ 71nm (CR)
2049	30Y 268° @ 57nm (RE)		0100	30Y Return to base

Seeding operations were conducted over Crockett (21), Glasscock (7), Reagan (8), and Sterling (12) Counties. 48 flares were burned within 2 large clouds, one with multiple cells. An MCS moving south from the Panhandle and storms moving west from Trans-Pecos brought seedable storms. This is the second day for seeding in May and 4<sup>th</sup> day for seeding during the season. In "FLARE LOCATION", CR is Crockett County, GL is Glasscock County, and ST is Sterling County.