

WEST TEXAS WEATHER MODIFICATION ASSOCIATION - SAN ANGELO, TEXAS

SEEDING REPORT - July 31, 2009

SYNOPTIC/MESOSCALE CONDITIONS:

Upper ridge over Desert Southwest with northwesterly flow over West Texas. Shortwave influences afternoon/evening thunderstorms. Frontal boundary Trans-Pecos to South Texas.

LIFTING MECHANISM:

Frontal boundary.

DISCUSSION:

MOSTLY CLOUDY SKIES OCCURRED DURING MORNING AND AFTERNOON. CLOUDS BEGAN TO SHOW SIGNS OF SEEDABLE STRUCTURE AROUND 1PM; CALLED PILOT AND LAUNCHED AT 140PM PR 1840Z. 3 FLIGHTS THIS AFTERNOON WITH POOR VISIBILITY FOR MAJORITY OF THE DAY; 3RD FLIGHT LATE, THUNDERSTORM DISSIPATED OVER AIRPORT UNEXPECTEDLY - CALLED ANOTHER PILOT. CONVECTIVE TEMPERATURE AT MIDLAND WAS 85 AND 95 AT DEL RIO. 2PM TEMPERATURES WERE 86 AT SAN ANGELO AND 81 AT MIDLAND. CLOUDS HAD AROUND 3-500 FT/MIN INFLOW. BASES WERE FOUND ~5-6 KFT; AT A TEMPERATURE ~13°C. FLIGHT TRACK DATA NOT AVAILABLE; LIGHTNING ZAPPED TELEMETRY-WORKING ON SOLUTION.

WATCHES/WARNINGS:

None.

SEEDED CELL ID'S:

1814, 2088, 2041, 2162, 2327, 3133.

FLIGHT INFORMATION

TIME(z)	PLANE	FLARE LOCATION		
1847	30Y 260° @ 22nm (IR)			
1850	30Y 269° @ 23nm (IR)			
1852	30Y 271° @ 20nm (IR)			
1854	30Y 271° @ 22nm (IR)			
1856	30Y 271° @ 23nm (IR)			
1859	30Y 270° @ 23nm (IR)			
1907	30Y 275° @ 23nm (IR)			
1915	30Y Return to base		0055	41P 230° @ 70nm (CR)
			0100	41P 251° @ 66nm (CR)
2004	41P 178° @ 16nm (TG)		0103	41P 229° @ 65nm (CR)
2005	41P 157° @ 17nm (SC)		0107	41P 234° @ 73nm (CR)
2015	41P 173° @ 25nm (SC)		0114	41P 236° @ 73nm (CR)
2020	41P 196° @ 21nm (SC)		0117	41P 240° @ 68nm (CR)
2025	41P 196° @ 26nm (SC)		0120	41P 242° @ 70nm (CR)
2027	41P 205° @ 25nm (SC)		0133	41P Return to base
2029	41P 215° @ 27nm (SC)			
2319	41P 210° @ 38nm (SC)			
2322	41P 205° @ 39nm (SC)			
2235	41P Return to base			

Seeding operations were conducted over Crockett (12), Irion (8), Schleicher (14), and Tom Green (2). 34 flares were fired within 6 clouds with multiple cells. A frontal boundary produced seedable conditions. This is the ninth day for seeding in July and 35th day for seeding during the season. In "FLARE LOCATION, CR is Crockett County, IR is Irion County, SC is Schleicher County, and TG is Tom Green County.