

WEST TEXAS WEATHER MODIFICATION ASSOCIATION - SAN ANGELO, TEXAS

SEEDING REPORT - October 9, 2006

SYNOPTIC/MESOSCALE CONDITIONS:

Cold front from a low off northeastern Canadian Coast. Surface trough from eastern New Mexico to South Dakota. Upper level closed low off California coast sending short-waves through Texas.

LIFTING MECHANISM:

Surface heating ahead of a cold front and upper level support

DISCUSSION:

MORNING/MID-DAY CIRRUS SLOWLY BURNED OFF. FRONTAL BOUNDARY FROM WICHITA FALLS THROUGH THE TA INTO TRANS-PECOS REGION. MOISTURE POOL AND CLEAREST SKIES IRION, REAGAN, CROCKETT COUNTIES BEST LOCATION FOR DEVELOPMENT. PILOT NOTIFIED AT 1:15, WEAK CLOUDS DEVELOPING AROUND 2:20. UNTIL 2:20 CLOUDS REMAINED UNDER SEEDABLE CRITERIA. PILOT IN ROUTE TO REAGAN COUNTY AT 2:45. VERY LOW CLOUD CEILINGS EXISTED NEAR 4500FT. INFLOW RANGED 300-600FT/MIN AND TEMPERATURES WERE 12-14°C.

WATCHES/WARNINGS:

SEVERE THUNDERSTORM WARNING

SEEDED CELL ID'S:

Cell 1947 over Irion County was weak upon arrival. 1817 over Reagan County responded very well. 2110 was a decent cell and merged with 2068 which also responded very well to seeding producing significant rainfall.

FLIGHT INFORMATION:

TIME (z)	PLANE	FLARE LOCATION
2005	41P	270° @ 17nm (IR)
2030	41P	270° @ 47nm (RE)
2035	41P	270° @ 48nm (RE)
2040	41P	270° @ 43nm (RE)
2042	41P	275° @ 41nm (IR)
2045	41P	275° @ 39nm (IR)
2053	41P	270° @ 15nm (IR)
2126	41P	255° @ 62nm (RE)
2142	41P	250° @ 69nm (RE)
2204	41P	264° @ 57nm (RE)
2218	41P	263° @ 56nm (RE)
2220	41P	260° @ 59nm (RE)
2222	41P	260° @ 61nm (RE)
2224	41P	260° @ 64nm (RE)
2227	41P	259° @ 70nm (RE)
2230	41P	260° @ 66nm (RE)
2245	41P	Return to base

Seeding operations were conducted over Irion (7) and Reagan (23) with good results. 30 flares were burned within 4 clouds. An upper level disturbance and sufficient heating developed a few clouds. This is the first day for seeding in October and 61st day for seeding during the season. In "**FLARE LOCATION**", IR is Irion County and RE is Reagan County.

Rainfall (IN) (Radar estimates)

0.79 W. Glasscock
5.27 NE Reagan
3.62 SW Reagan
6.14 Cntrl Reagan
2.20 N San Angelo
4.48 SW Sterling
4.25 S. Cntrl Sterling
4.25 E Tom Green Panhandle

Rainfall estimations are point specific, and the highest amount of rainfall estimated for a particular cell. Rainfall will generally be a lesser quantity. Precipitation images are available on the operations archive section of the webpage. <http://www.wtma.com/dailyoperations/>