WEST TEXAS WEATHER MODIFICATION ASSOCIATION – SAN ANGELO, TEXAS

SEEDING REPORT – September 29, 2011

SYNOPTIC/MESOSCALE CONDITIONS:

NORTHWEST FLOW ALOFT IS STILL PRESENT WHICH WILL RESULT IN ONE MORE DAY OF AN UNSTABLE ATMOSPHERE OVER WEST CENTRAL TEXAS. SURFACE LOW IS CURRENTLY OVER THE DALLAS/FORT WORTH AREA AND AN ASSOCIATED COLD FRONT IS EXTENDED BACK TO THE WEST ACROSS NORTHWEST TEXAS. THIS COLD FRONT IS EXPECTED TO PUSH THROUGH THE AREA THIS AFTERNOON INTO THE EVENING. SHOWERS AND THUNDERSTORMS ARE EXPECTED ALONG THE FRONT BUT ALSO SOME PRE-FRONTAL SHOWERS AND STORMS ARE POSSIBLE.

LIFTING MECHANISM:

FRONTAL BOUNDARY, SUFFICIENT HEATING, INSTABILITY.

DISCUSSION:

AT 1830Z A VERY SMALL CU FIELD BEGAN TO DEVELOPMENT ALONG REAGAN AND IRION COUNTIES. CONVECTION HAD ALREADY BEGUN NORTH AND WEST OF TARGET WITH TEMPS AT SAJ UP TO 96°F. AT 1856Z SMALL CONVECTION BEGAN TO FIRE UP IN IRION COUNTY AS CAPE VALUES APPROACHED 1,500 J/KG. FIRST PILOT WAS CALLED INTO THE AIR AT 1900Z AND WAS AIRBOURNE AT 1935Z. WITH TWO PILOTS OUT OF TOWN, ONE AT SCHOOL AND ONE UNAVAILABLE FOR FIRST HALF OF SEEDING, ONLY ONE PILOT WAS AVAILABLE FOR SEEDING AT FIRST. SECOND PILOT WAS AVAILABLE BY 2030Z AND WAS AIRBOURNE AT ()Z AS DEVELOPMENT BEGAN ALL OVER THE WESTERN TARGET. ***FIRST 10 LOCATIONS FLARED BY 24P WERE WITH RS3 40G FLARES, ALL OTHERS BY 24P ARE THE NEW NS2 FORMULA.*** NIGHT ENDED A BIT EARLY TO MECHANICAL ISSUES WITH THE NS2 FLARES. *AIRCRAFT 8549P USING 80G FLARES; 7924P IS USING NEW NS3 FLARES (OTHER THAN FIRST 10 LOCATIONS) OTHER AIRCRAFT ARE USING 40G FLARES.*

WATCHES/WARNINGS:

NONE

SEEDED CELL ID'S:

487, 459, 800, 581, 582, 735, 1200, 1116, 1505, 1185, 1382, 1742, 1618, 1734, UnID#1, 1610

FLIGHT INFORMATION

TIME (z)	PLANE	FLARE LOCATION
1955	24P	245° @ 42nm (RG)
1955	24P	245° @ 43nm (RG)
1957	24P	248° @ 46nm (RG)
1958	24P	248° @ 47nm (RG)
2000	24P	248° @ 45nm (RG)
2008	24P	255° @ 57nm (RG)
2013	24P	250° @ 65nm (RG)
2021	24P	245° @ 77nm (CR)
2022	24P	240° @ 76nm (CR)
2025	24P	240° @ 76nm (CR)
2043	24P	235° @ 71nm (CR)
2044	24P	240° @ 72nm (CR)
2047	24P	240° @ 72nm (CR)
2048	24P	240° @ 71nm (CR)
2048	24P	238° @ 70nm (CR)
2053	24P	238° @ 71nm (CR)
2105	24P	240° @ 53nm (CR)
2106	41P	290° @ 66nm (GL)
2107	41P	285° @ 68nm (GL)
2107	24P	240° @ 48nm (CR)
2113	41P	285° @ 60nm (GL)
2116	41P	280° @ 61nm (GL)
2117	24P	230° @ 46nm (CR)
2118	24P	225° @ 45nm (CR)
2119	24P	225° @ 45nm (CR)
2123	24P	225° @ 46nm (CR)
2129	41P	270° @ 60nm (RG)
2130	41P	270° @ 59nm (RG)
2134	24P	215° @ 40nm (CR)
2137	24P	220° @ 33nm (CR)
2145	24P	220° @ 33nm (CR)
2152	41P	280° @ 64nm (GL)
2209	24P	170° @ 50nm (SU)
2210	24P	170° @ 51nm (SU)
2211	41P	290° @ 57nm (GL)
2213	24P	170° @ 53nm (SU)
2216	24P	170° @ 55nm (SU)
2218	24P	170° @ 54nm (SU)
2330	24P	Return to Base
2330	41P	Return to Base

Seeding operations were conducted over Crockett (18), Sutton (5), Reagan (11) and Glasscock (12) Counties. 46 flares were burned within 16 clouds. This is the tenth day for seeding in September and 35th day for seeding during the season. In **"FLARE LOCATION"**, SU is for Sutton, RG is for Reagan, GL is for Glasscock and CR is for Crockett.