

## July 2007 - Operations Report

**July 2, 2007** - Seeding operations were conducted over Irion (12), Sterling (11), and Tom Green (14) with good results. 37 flares were burned within one large cloud with several convective cores. An upper-level low over north Texas and surface heating helped to produce storms over the eastern target area.

**July 3, 2007** - Seeding operations were conducted over Crockett (8), Irion (12), Schleicher (31), Sterling (11), Sutton (2), and Tom Green (21) with very good results. 85 flares were burned within nine small clouds which merged into two large clouds. An upper-level low over central Texas produced storms over the target area.

**July 6, 2007** – Seeding operations were conducted over Irion (3), Sterling (2), and Reagan (2) with fair results. 7 flares were burned within three small clouds. The stagnant upper-low began to push out of northeast Texas with trailing trough through west Texas promoting isolated showers.

**July 7, 2007** – Seeding operations were conducted over Schleicher (9) and Sutton (14) with very good results. 23 flares were burned within three small clouds which merged into one. Moisture convergence along a boundary over the southern target promoted day for seeding during the season.

**July 10, 2007** - Seeding operations were conducted over Sterling (6) and Glasscock (3) with good results. 9 flares were burned within one small cloud which merged into one spreading rains over Sterling and Glasscock. Convergence along an outflow boundary over the northern target forced short-lived convection.

**July 13, 2007** - Seeding operations were conducted over Crockett (40), Irion (7), and Reagan (18) with very good results. 65 flares were burned within two small clouds and two large clouds. Convergence along an approaching cold front produced light showers in the morning and strong thunderstorms late afternoon.

**July 17, 2007** - Seeding operations were conducted over Sutton (2) with fair results. 2 flares were burned within one small cloud. An outflow boundary popped up a few very marginal clouds.

**July 23, 2007** - Seeding operations were conducted over Schleicher (10) and Sutton (7) Counties with fair results. 17 flares were burned within five small clouds. Shortwave impulses promoted a few marginal clouds.

**July 24, 2007** - Seeding operations were conducted over Glasscock (13) and Irion (2) Counties with fair results. 15 flares were burned within 3 small clouds. Shortwave impulses promoted a few marginal clouds.

**July 26, 2007** - Seeding operations were conducted over Irion (10) and Sutton (7) Counties with fair results. 17 flares were burned within five small clouds. An upper-level low and surface heating helped to develop a few marginally seedable clouds.

**July 27, 2007** - Seeding operations were conducted over Glasscock (24), Irion (11) and Reagan (3) Counties with good results. 38 flares were burned within six small clouds. An upper-level low and surface heating helped to develop a few seedable clouds.

**July 28, 2007** - Seeding operations were conducted over Crockett (5), Irion (9), and Reagan (8), Schleicher (18), Sutton (7), Tom Green (3) Counties with good results. 50 flares were burned within six small clouds. An upper-level low and surface heating helped to develop a few seedable clouds.

**July 29, 2007** - Seeding operations were conducted over Crockett (12), Glasscock (8), Irion (10), and Reagan (19), Sterling (8), Tom Green (4) Counties with good results. 61 flares were burned within six small clouds. An upper-level low and surface heating helped to develop a few seedable clouds.

**July 31, 2007** - Seeding operations were conducted over Glasscock (8) good results. 8 flares were burned within one small cloud. An upper-level low over Mexico, surface boundary, and heating helped to develop a few showers over the northern target. This is the fourteenth day for seeding in July and 31<sup>st</sup> day for seeding during the season.

The month of July contained 14 days of operations:

<b>Date</b>	<b>Flares</b>	<b>Counties seeded</b>
2	37	Irion, Sterling, Tom Green
3	85	Crockett, Irion, Schleicher, Sterling, Sutton, Tom Green
6	7	Irion, Reagan, Sterling
7	23	Schleicher, Sutton
10	9	Glasscock, Sterling
13	65	Crockett, Irion, Reagan
17	2	Sutton
23	17	Schleicher, Sutton
24	15	Glasscock, Irion
26	17	Irion, Sutton
27	38	Glasscock, Irion, Reagan
28	50	Crockett, Irion, Reagan, Schleicher, Sutton, Tom Green
29	61	Crockett, Glasscock, Irion, Reagan, Sterling, Tom Green
31	8	Glasscock
<b>Total Flares: 434</b>		

The general weather pattern has allowed for above normal precipitation over parts of the target area again this month. The rainfall has occurred in a more scattered fashion allowing for locally high and low rainfall totals. Upper-level lows migrating across Texas between the southeast and western ridges were responsible for the majority of July's weather. The Polar Jet has been less amplified and located mainly across south-central Canada. Mathis field was .45 inches above normal for July and 9.75 inches above for the year. Midland continues to be wet this year also with .45 inches above in July and 7.66 inches above normal for the year.

Monthly rain gauge measurements from nearest locations inside and outside of the target area recorded either by the National Weather Service or Weatherbug Sites are provided.

3.55	Grape Creek	2.41	Abilene
0.77	Eldorado	2.34	Midland
1.47	McCamey	0.75	Sonora
0.74	Barnhart	0.76	Big Spring
1.84	Mathis Field		
3.66	Junction		