

August 2006 Operations Report

- August 1, 2006** – Operations were conducted over Glasscock County due to an upper level low pressure centered over New Mexico and a surface boundary promoting convergence SW-NE through the western fringes of the target area. Dominant movements of these showers were toward the NNW. Five clouds were seeded over Glasscock (12 flares) and merged into a single and larger cell originating over Pecos County more than two hours prior.
- August 2, 2006** – Operations were conducted over Crockett (6), Irion (6), and Reagan (20), Schleicher (2) and, Tom Green (14) Counties. 48 flares were burned within 8 clouds with fair results. Recon on cells in Glasscock Counties found no inflow. Rainfall likely associated with monsoonal moisture with NNW movement and reduced seedable environment. Upper level low over Del Rio brought moisture into the target area, while convergence along a boundary in the west provided some lift.
- August 3, 2006** -- Seeding operations were conducted over Crockett (28), Glasscock (10), Irion (44), Reagan (2), Schleicher (6), and Sutton (15) Counties with fair results. 105 flares were burned in 14 clouds. Clouds were tropical in nature again with low pressure near the Big Bend and cell movement from the S-ESE.
- August 4, 2006** – Seeding operations were conducted over Glasscock (10), Irion (5), Reagan (10), Schleicher (35), and Sutton (17) with fair results. 77 flares were burned within 13 clouds. Clouds were again short-lived in this tropical-like environment which has been present this week. Low pressure center moved up into the west Texas/ New Mexico border. Cloud movement was toward the W-NW.
- August 5, 2006** – Operations were conducted over Irion (8), Sterling (10), and Tom Green (22) Counties with fair results. Air mass thunderstorms resulted in weak marginally seedable clouds. Cells were moving toward the W-NW if moving at all. Nevertheless, 10 clouds were seeded with 40 flares burned.
- August 7, 2006** – Operations were conducted over Crockett (3) and Reagan (2) Counties with marginal results. Cells were very tropical with low tops and weak inflow. Pilot found no inflow during recon in Glasscock and Irion Counties. 5 flares were burned within 2 clouds. A Tropical Upper-Tropospheric Trough (TUTT) has been responsible for weather during the first seven days of August.
- August 12, 2006** – Operations were conducted over Glasscock (9), Irion (9), Schleicher (11), Sterling (18), and Tom Green (6) with good results. 53 flares were burned within 12 clouds. The days shower activity was a result of the trailing edge of a stationary front to the north, a dryline to the west, and sufficient daytime heating.
- August 15, 2006** – Operations were conducted over Sterling County (4) but inflow was barely detected. 4 flares were burned within 2 clouds. Better cells were present outside the target area associated with a stationary front across central Texas, high moisture content, and an upper level disturbance over the Pecos region.
- August 16, 2006** – Operations were conducted over Crockett (2), Glasscock (7), and Sterling (2) Counties with fair results. 11 flares were burned within 5 clouds. Little or weak inflow was detected. Showers were associated with a low over southeastern New Mexico and moisture content was high.
- August 17, 2006** – Operations were conducted over Glasscock (16) and Reagan (19) Counties with good results. Early afternoon operations over Sterling (13) were fair; pilot found only weak inflow. 48 flares were burned within 8 clouds. The best cloud covered a large portion of Glasscock and Reagan Counties. Rainfall is mostly due convergence boundary/trough over west Texas.
- August 20, 2006** – Operations were attempted over Sutton (1) and Reagan (3) Counties. Weak inflow and marginal cloud criteria did not encourage good results. Four flares were burned within two clouds. A stationary front draped across north and west Texas and east flow over

the Hill Country promoted a few isolated showers over the weekend. Seedable conditions were limited.

August 22, 2006 – Operations were attempted over Sutton (2) County. One cloud was seeded with 2 flares. This situation was similar to the twentieth. The stationary boundary and east flow across the target area developed only short-lived seedable clouds.

August 23, 2006 – Operations were attempted over Schleicher (2) County. One cloud was seeded with 2 flares. Another day of short-lived seedable conditions began with poor clouds east of the target area, briefly becoming seedable late in the afternoon.

August 26, 2006 -- Operations were conducted over Irion (8), Reagan (16), Schleicher (17), Sterling (8), and Sutton (21) Counties with excellent results. 66 flares were burned, within 13 clouds. A stationary front along the Texas/Oklahoma border and a dryline from near Wichita Falls crossed through the target area. Significant heating, sufficient moisture, and a lifting mechanism produced many good seedable clouds. [View full report.](#)

August 27, 2006 – Seeding operations were conducted Crockett (20), Irion (2), and Tom Green (8) Counties with excellent results. 30 flares were burned within 3 clouds. The 3 clouds engulfed northern Crockett County, Irion and western Tom Green Counties. Heavy rain also occurred overnight Saturday and Sunday. [View full report.](#)

August 29, 2006 – Seeding operations were conducted over Reagan (2) County with good results. 2 flares were burned within 2 clouds. A trough over west Texas and adequate surface heating prompted the development of marginally seedable clouds. [View full report.](#)

August 30, 2006 – Seeding operations were conducted over Irion (2), Schleicher (12), and Sutton (24) Counties with good results. 38 flares were burned within 8 clouds. A weak surface boundary and sufficient heating were enough to produce a few isolated showers. This is the 17th day for seeding in August and 58th day for seeding during the season. [View full report.](#)

The month of August contained 17 days of operations

Date	Flares	Counties seeded
1	12	Glasscock
2	48	Crockett, Irion, and Reagan, Schleicher, Tom Green
3	105	Crockett, Glasscock, Irion, Reagan, Schleicher, Sutton
4	77	Glasscock, Irion, Reagan, Schleicher, Sutton
5	40	Irion, Sterling, Tom Green
7	5	Crockett, Reagan
12	53	Glasscock, Irion, Schleicher, Sterling, Tom Green
15	4	Sterling
16	11	Crockett, Glasscock, Sterling
17	48	Glasscock, Reagan, Sterling
20	4	Sutton, Reagan
22	2	Sutton
23	2	Schleicher
26	66	Irion, Reagan, Schleicher, Sterling, Sutton
27	30	Crockett, Irion, Tom Green
29	2	Reagan
30	38	Irion, Schleicher, Sutton
Total Flares: 547		

Due to the mostly tropical nature of August seeding events, most results were evident in a clouds lifetime. Good or excellent results are preliminary and subjective based on apparent increase of storm mass and volume in addition to storm lifetime during seeding.