

May 2007 - Operations Report

May 6, 2007 – Seeding operations were conducted over Irion (26) and Tom Green (6) with good results. 32 flares were burned within several small clouds quickly ingested by a large cloud. An upper-level trough from Baja stretched across the plains and a dryline through the target area promoted thunderstorms. This is the first day for seeding in May and 6th day for seeding during the season.

May 8, 2007 - Seeding operations were conducted over Crockett (2), Irion (21), Sterling (17) and Tom Green (17) with good results. 57 flares were burned within a couple small clouds quickly ingested by a large cloud. An upper-level trough over northern Mexico fed a large MCS.

May 12, 2007 - Seeding operations were conducted over Crockett (11), Glascock (15), Irion (6), Reagan (10), Sterling (10), and Tom Green (22) with good results. 74 flares were burned within many small clouds. An upper-level short-wave running around a ridge; and surface heating promoted showers and thunderstorms.

May 21, 2007 - Seeding operations were conducted over Crockett (2) with fair results. 2 flares were burned within one small cloud. An upper-level trough, dryline, and southerly flow promoted showers and thunderstorms.

May 27, 2007 - Seeding operations were conducted over Crockett (9), Irion (35), Reagan (7), Schleicher (17), and Tom Green (9) with excellent results. 77 flares were burned within seven small clouds. An upper-level trough, surface heating, and moist-southerly flow promoted showers and thunderstorms. This is 10th day for seeding during the season.

The month of May contained 5 day of operations

| Date | Flares | Counties seeded |
|--------------------------|---------------|--|
| 6 | 32 | Irion, Tom Green |
| 8 | 57 | Crockett, Irion, Sterling, Tom Green |
| 12 | 74 | Crockett, Glascock, Irion, Reagan, Sterling, Tom Green |
| 21 | 2 | Crockett |
| 27 | 77 | Crockett, Irion, Reagan, Schleicher, Tom Green |
| Total Flares: 242 | | |

The general weather pattern has allowed for above normal precipitation over the majority of the target area again this month. Several cut-off upper level lows have been held over the Great Plains by a persistent surface high and upper level ridge over the eastern United States. The Polar Jet has had significant trough and ridge periods over the north and the Sub-tropical Jet has held a position over southern Baja and central Mexico. Mathis field was 1.65 inches above normal for May and 5.99 inches above for the year. Midland continues to be surprisingly wet this year also with 3.48 inches above in May and 6.35 inches above normal for the year. Midland reached a third place highest monthly rainfall.

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.

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|------|-------------|------|--------------|------|-------------------------|
| 4.18 | Grape Creek | 4.74 | Mathis Field | 0.00 | Sonora (non- |
| 5.29 | Eldorado | 3.98 | Junction | | operational this month) |
| 1.75 | McCamey | 5.63 | Abilene | | |
| 3.51 | Barnhart | 5.27 | Midland | 3.06 | Big Spring |