

August 2008 Operations Report

August 1, 2008 - Seeding operations were conducted over Crockett (27), Irion (38), Reagan (24), Schleicher (48), Sterling (4), Sutton (2), and Tom Green Counties (27). 170 flares were burned within 1 large cloud consisting of more than 10 cells. An upper level low and surface heating produced thunderstorms over the target.

August 6, 2008 - Seeding operations were conducted over Irion (9) County. 9 flares were burned within 3 very marginal clouds. Reconnaissance of other very marginal clouds produced zero inflow. Remnants of Tropical Storm Edouard produced showers over the target.

August 10, 2008 - Seeding operations were conducted over Sterling (5) County. 5 flares were burned within 2 marginal clouds. Reconnaissance of other very marginal clouds produced zero inflow. A cold front over the Texas Panhandle produced thunderstorms mainly north of the target.

August 11, 2008 - Seeding operations were conducted over Crockett (77) County. 77 flares were burned within 4 clouds which merged into one large cloud over southern Crockett. Reconnaissance of other very marginal clouds produced zero inflow over Sutton County. A frontal boundary and outflow boundaries aided to produce thunderstorms over the southern target.

August 12, 2008 - Seeding operations were conducted over Crockett (42) and Sutton (22) Counties. 64 flares were burned within 10 clouds. A frontal boundary and outflow boundaries aided to produce thunderstorms over the southern target.

August 14, 2008 - Seeding operations were attempted over Schleicher (1) and Sutton (1) Counties. 2 flares were burned within 1 cloud. Surface heating managed to spark up a few very marginal clouds.

August 15, 2008 - Seeding operations were conducted over Crockett (36), Irion (2), Reagan (6), Schleicher (43), and Sutton (10) Counties. 97 flares were burned within 15 cells growing into one large cloud. Surface heating in combination with an upper low and outflow boundaries created many thunderstorms over the target area.

August 18, 2008 - Seeding operations were conducted over Irion (56), Schleicher (21) Sterling (2), and Tom Green (16) Counties. 95 flares were burned within 8 cells, many merging into one large cloud. Cleared skies allowed for surface heating and in combination with an upper low, thunderstorms developed over the central target.

August 21, 2008 - Seeding operations were conducted over Crockett (10), Reagan (7), Schleicher (22), Sterling (10), and Sutton (15) Counties. 64 flares were burned within 13 clouds. Surface heating and an upper trough produced thunderstorms over the target.

August 24, 2008 - Seeding operations were conducted over Crockett (9), Schleicher (12), and Sutton (33). 54 flares were burned within 11 small clouds. Surface heating and a shortwave trough produced thunderstorms over the target.

August 26, 2008 - Seeding operations were conducted over Irion (4), Schleicher (20), and Sutton (8). 32 flares were burned within 4 small clouds. Surface heating produced thunderstorms over the target.

August 27, 2008 - Seeding operations were conducted over Sutton (6) County. 6 flares were burned within 1 small cloud with a slight increase in cloud lifetime. Surface heating produced showers over the target.

August 29, 2008 – Seeding operations were conducted over Glasscock (9) and Sterling (19) Counties. 28 flares were burned within 3 clouds. Persistent tropical low and surface heating produced showers and storms over the target.

August 30, 2008 - Seeding operations were conducted over Irion (9), Reagan (3), and Tom Green (2) Counties. 14 flares were burned within 3 clouds. Persistent tropical low and surface heating produced showers and storms over the target.

August 31, 2008 - Seeding operations were attempted over Sterling (2) County. 2 flares were burned within 1 cloud. Surface heating produced showers over the northern target. This is the fifteenth day for seeding in August and 36th day for seeding during the season.

The month of August contained 15 days of operations

Date	Flares	Counties seeded
1	170	Crockett, Irion, Reagan, Schleicher, Sterling, Sutton, Tom Green
6	9	Irion
10	6	Sterling
11	77	Crockett
12	64	Crockett, Sutton
14	2	Schleicher, Sutton
15	97	Crockett, Irion, Reagan, Schleicher, Sutton
18	95	Schleicher, Sterling, Tom Green
21	64	Crockett, Reagan, Schleicher, Sterling Sutton
24	54	Crockett, Schleicher, Sutton
26	32	Irion, Schleicher, Sutton
27	6	Sutton
29	28	Glasscock, Sterling
30	14	Irion, Reagan, Tom Green
31	2	Sterling
Total Flares: 717		

The general weather pattern for July began with a ridge dominating the Desert Southwest and stretching across the south into Florida. A weakness in the ridge over Texas developed an upper low which traversed West Texas on the 1st providing very good seedable thunderstorms and rain across the northern target. The ridge strengthened during the first week of the month while a Tropical Storm (Edouard) developed under the ridge at Coastal Louisiana. The tropical storm moved inland at Galveston and continued a west-northwestward track into West Texas where it produced very little rain throughout the target.

A large ridge regained control over Mexico, the Desert Southwest, and rose into the Canadian Plains through the second week. A cold front pushed south into the target area during the second Sunday of the month and provided much needed rain over the northern target. The cold front continued to produce scattered thunderstorms through the second Tuesday over the southern target. A strong upper level low developed over the northern Rockies during the second week and pushed southward; West Texas received saturated soils through the weekend. A trough persisted over the southern Plains throughout the 3rd week with a couple more days of very good operations minus technical difficulties with TITAN. An upper low/trough maintained a position over Texas for another week with moisture from Pacific Tropical Storm Julio moving across northern Mexico providing additional chances for precipitation through the end of the month. A few good seedable storms occurred during the mainly marginal conditions late month.

Totals at Abilene, Midland, and San Angelo rose above the monthly normal. The majority of rain occurred over 3 sets of days during the first, middle, and last days of the month. Abilene

rose above normal for the year receiving 18.59 through August, 3.19 inches above normal. San Angelo received 12.93 inches this year, .42 inches below normal. Midland received 6.24 inches this year, 3.18 inches below normal.

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

2.55	Grape Creek
3.07	Eldorado
4.13	Eldorado
1.92	McCamey
2.32	Barnhart
3.59	Mathis Field
4.91	Junction
6.31	Abilene
2.42	Midland
4.97	Garden City
3.67	Sonora
0.96	Big Spring
3.46	Ozona (15mi SSW)
2.59	Iraan
0.20	Cox Ranch
2.53	Mertzon
4.51	Mertzon
3.67	Knickerbocker
6.26	Sterling City