

July 2008 Operations Report

July 1, 2008 – Seeding operations were conducted over Crockett County (4), Schleicher County (2), and Sutton County (3). 9 flares were burned within 4 clouds with fair results. Post frontal precipitation and weak surface heating marginally seedable clouds over the southern target.

July 3, 2008 - Seeding operations were conducted over Crockett County (6), Glasscock County (2), Irion County (25), Reagan County (3), Sterling County (22), and Tom Green County (4). 62 flares were burned within 10 marginal clouds with fair results. A weak upper low and sufficient surface heating produced marginally seedable clouds over the whole target.

July 8, 2008 - Seeding operations were conducted over Irion County (24), Reagan County (10), and Tom Green County (7). 41 flares were burned within 4 marginal clouds. Sufficient surface heating produced marginally seedable clouds over the target.

July 17, 2008 - Seeding operations were attempted over Sterling County (6). 6 flares were burned within 2 marginal clouds. Sufficient surface heating produced barely marginally seedable clouds over the northern border and further north.

July 29, 2008 - Seeding operations were conducted over Tom Green County (26). 26 flares were burned within 3 clouds margining into one large cloud. An upper level trough and surface heating produced thunderstorms originating over Coke county growing into Tom Green and eastern Sterling County.

July 30, 2008 - Seeding operations were conducted over Crockett (20), Glasscock (6), Irion (2), and Reagan Counties (27). 55 flares were burned within 4 clouds. A frontal boundary and surface heating produced thunderstorms over the western target.

July 31, 2008 - Seeding operations were conducted over Crockett (2) and Sutton Counties (52). 54 flares were burned within 6 clouds. A frontal boundary and surface heating produced thunderstorms over the southern target. This is the seventh day for seeding in July and 21st day for seeding during the season.

The month of July contained 7 days of operations

Date	Flares	Counties seeded
1	9	Crockett, Schleicher, Sutton
3	62	Crockett, Glasscock, Irion, Reagan, Sterling, Tom Green
8	41	Irion, Reagan, Tom Green
17	6	Sterling
29	26	Tom Green
30	55	Crockett, Glasscock, Irion, Reagan
31	54	Crockett, Sutton
Total Flares: 253		

The general weather pattern for July began with a ridge dominating Texas and the Desert Southwest. A weak upper low/upper level disturbance meandered around Texas during the first few days of the month. A moist-tropical airmass remained in place over Texas through the middle of the month but a strong ridge continued to suppress weather. Sporadic showers were present across the target area many days but clouds were at or below marginal seeding potential. Hurricane Dolly developed in the southern Caribbean and moved northwest into South Texas on the 23rd with only a few showers making it into the southern target.

A large ridge become stagnant over Mexico and the Desert Southwest and a weaker ridge was centered over the Southeast. This upper level pattern with a weakness between ridges allowed several days for seedable conditions the end of the month. For the majority of the target area during the month of July, conditions were hot and dry. Totals at Abilene, Midland, and San Angelo continued below normal. The majority of rain occurred the first and last couple days of the month. Abilene, Midland, and San Angelo were below normal for the month and for the year. Abilene had received 12.28 inches this year, .49 inches below normal. San Angelo had received 9.34 inches this year, 1.96 inches below normal. Midland had received 3.84 inches this year, 3.81 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.

0.31	Grape Creek
0.36	Eldorado
0.00	McCamey
0.37	Barnhart
0.19	Mathis Field
0.69	Junction
0.01	Abilene
0.70	Midland
0.25	Sonora
0.24	Big Spring
0.69	Ozona (15mi SSW)
0.01	Cox Ranch
0.32	Mertzon
0.82	Mertzon
0.08	Knickerbocker
0.46	Sterling City
1.35	Iraan