

April 2009 Operations Report

April 16, 2009 - Seeding operations were conducted Glasscock (5) County. 5 flares were burned within 1 small cloud. An upper level trough and dryline produced strong thunderstorms in the afternoon mainly west and north of the target.

April 23, 2009 - Seeding operations were conducted over Glasscock (9), Reagan (2), and Sterling (7) Counties. 18 flares were burned within 6 small clouds. An upper level shortwave trough and dryline produced high-based thunderstorms in the afternoon and evening.

April 26, 2009 - Seeding operations were conducted over Crockett (4), Glasscock (16), Reagan (3), and Schleicher (5) Counties. 28 flares were burned within 3 large clouds. A surface low with associated dryline produced severe thunderstorms west of target moving into target late afternoon. This is the third day for seeding in April and 4th day for seeding during the season.

The month of April contained 3 days of operations

Date	Flares	Counties seeded
16	5	Glasscock
23	18	Glasscock, Reagan, Sterling
26	28	Crockett, Glasscock, Reagan, Schleicher
Total Flares: 51		

April 2009 was rather wet across parts of Texas given several trough/ridge passages. The month was also rather cool since surface moisture produced stratus over the region many days. The target area received two periods of flooding rains; April 16-17th and April 26-27th. Opposite of significant moisture, seeding events on the 23rd found extremely high base thunderstorms caused by thunderstorm initiation behind the dryline where dewpoints were in the 30s. Seeding operations in April were good, although inhibited by either mostly cloudy skies or too high cloud base.

Rainfall in April was very good over much of the target area. San Angelo received the 7th most rainfall on record. Midland and Abilene remain below monthly and annual normal. Abilene is below normal for the year receiving 1.07 inches during the month and 2.95 for the year. San Angelo had a one-day record rainfall on the 27th totaling 2.28inches. San Angelo received 4.61 inches in April and 6.88 this year. Midland received .29 inches in April, .11 inches for the year. Annual departures from normal are: Abilene -2.23, San Angelo +2.29, and Midland -1.15.

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.

<u>NWS</u>		<u>Utah Mesonet</u>		<u>CocoRahs</u>	
4.61	Mathis Field	3.15	Barnhart	4.93	Eldorado
1.07	Abilene	1.77	Cox Ranch	3.05	Knickerbocker
5.09	Junction	4.97	Ozona (15mi SSW)	1.20	Ozona
0.29	Midland	2.54	Iraan	1.39	Iraan
0.53	Big Spring			4.09	Vancourt
4.25	Sonora				
		<u>Wunderground</u>		<u>Other</u>	
		1.47	Sterling City	2.48	San Angelo (7NW)
<u>AWS</u>		2.12	Mertzon	1.44	St. Lawrence
2.21	Grape Creek			2.42	Mertzon