

## October 2009 Operations Report

**October 9, 2009** - Seeding operations were conducted over Glasscock (34) Irion (6), and Reagan (14) Counties. 54 flares were fired within 2 clouds, one with multiple cells. A trough, dryline, and surface heating produced strong seedable thunderstorms. This is the first day for seeding in October and 56<sup>th</sup> day for seeding during the season.

The month of September contained 1 day of operations

<b>Date</b>	<b>Flares</b>	<b>Counties seeded</b>
8	54	Glasscock, Irion, Reagan
<b>Total Flares: 54</b>		

October was quite warm during the first week. Mild ridge over Texas and strong persistent trough elongated over the northern Plains, central Rockies, and California coast gathered a warm and very moist airmass over Texas through the 8<sup>th</sup> of October. Mostly cloudy skies during the time period hampered most convection; Thursday the 8<sup>th</sup> saw clouds dissipate early afternoon and surface heating combined with a very strong trough/dryline to promote strong thunderstorms over the northern target. A cold front followed with an additional surge of cold air through the weekend. Drizzle under cloudy skies continued into the 2<sup>nd</sup> Monday of the month with showers ending and mostly sunny skies returning to West Texas through the next week. A large ridge built in over the Desert Southwest through the 17<sup>th</sup> that would bring fair temperatures along the northwesterly flow. A low-pressure system developed over the central Rockies by the 19<sup>th</sup> increasing windy conditions across the region and bringing rain to West Texas on the 21<sup>st</sup>. High pressure returned for a few days then an additional surface trough and deep upper level trough into Mexico promoted showers and a few thunderstorms across West Texas on the 26<sup>th</sup>. The system did not produce much precipitation for West Texas.

Rainfall in October was good over most of the target area. Mathis Field in San Angelo recorded 2.92 inches and 23.85 for the year. Midland International recorded 0.96 inches and 13.90 for the year. Abilene recorded 3.40 inches in October and 23.85 inches this year. Monthly departures from normal were: Abilene +.50, San Angelo +.35, and Midland -.81. Annual departures from normal were: Abilene -1.54, San Angelo +4.98, and Midland +0.40.

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.

### NWS

2.92 Mathis Field  
3.40 Abilene  
3.69 Junction  
0.96 Midland  
0.84 Big Spring  
0.56 Sonora

1.36 Mertzon

### CocoRaHS

2.50 Eldorado  
3.05 Knickerbocker  
2.46 Ozona (26 SW)  
1.78 Garden City  
2.00 Iraan  
0.10 Sheffield

### Wunderground

2.70 Sterling City  
1.34 Mertzon

### Utah Mesonet

2.04 Barnhart  
2.20 Cox Ranch  
2.04 Ozona (15mi SSW)  
1.42 Iraan  
2.99 Sterling City

### Other

3.09 San Angelo (7NW)  
3.43 St. Lawrence

