



National Weather Service

Storm Data and Unusual Weather Phenomena



August 2005

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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TEXAS, South Panhandle

Garza County

5 SW Graham Chapel 03 1710CST 0 0 Thunderstorm Wind (MG50)
Measured by the Texas Tech/West Texas mesonet station.

Garza County

Post 04 2345CST 0 0 Flash Flood
05 0015CST
Numerous roads and Farm to Market roads flooded in the Post area out to 6 miles west of Post.

Lynn County

Tahoka 05 0000CST 0 0 Flash Flood
0015CST
Several flooded roadways in the Tahoka area out to 10 miles west of Tahoka.

Castro County

5 NE Hart 07 1750CST 0 0 25K Hail(0.75)
1755CST
Penny sized hail accumulated along FM 928 east of FM 168 and resulted in damage to area cotton crops

Parmer County

15 W Friona 08 1510CST 0 0 Hail(0.88)

Bailey County

Enochs 08 1520CST 0 0 Hail(0.88)

Bailey County

4 W Enochs 08 1528CST 0 0 Hail(1.75)

Lubbock County

Lubbock 13 2000CST 0 0 Flash Flood
2005CST
Numerous reports of flooded roadways between South Loop 289 to 82nd Street and the 9700 block of Boston Street.

Hale County

1 S Plainview 21 1630CST 0 0 Thunderstorm Wind (MG51)
Measured by the Texas Tech/West Texas mesonet station.

Hale County

Abernathy 27 1637CST 0 0 Hail(1.50)

Hale County

Abernathy 27 1644CST 0 0 Hail(1.75)

Hale County

Abernathy 27 1645CST 0 0 Hail(2.00)

Lubbock County

Slaton 27 1736CST 0 0 Hail(1.00)

Parmer County

8 E Farwell 27 1757CST 0 0 Hail(2.75)

Lynn County

Wilson 27 1805CST 0 0 Hail(1.00)
Hail covered the roadway.

Lubbock County

11 SW Lubbock 27 1820CST 0 0 Hail(0.75)

Lubbock County

10 SW Lubbock 27 1822CST 0 0 Hail(0.88)

Garza County

8 W Post 27 1830CST 0 0 75K 650K Thunderstorm Wind (EG65)



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TEXAS, South Panhandle

1845CST

The National Weather Service in Lubbock, Texas conducted a damage survey of impacts resultant from severe thunderstorm activity occurring across the area on Saturday, August 27 2005.

An outbreak of severe thunderstorms developed across the NWS Lubbock forecast and warning area of responsibility during the late afternoon on Saturday and continued through the pre-midnight hours. A mesoscale convective system, or a large and organized complex of intense thunderstorms, developed as upper level energy pushed into the Texas Panhandle from the northwest and combined with numerous surface fronts generated from previous thunderstorm outflows.

Garza county: A severe thunderstorm produced a swath of significant damage in a relatively isolated area in Garza county. The zone of greatest impact occurred approximately 8 miles to the west of downtown Post, TX on Highway 380. The pattern of damage was consistent with a thunderstorm downburst. The downburst resulted from what is known as a rear flank downdraft (RFD). An RFD can form in severe thunderstorms as air high above begins to sink rapidly on the backside or rear of the thunderstorm. The RFD can, at times, play a significant role in the formation of a tornado. RFD winds can produce damage comparable to tornado damage, however there will generally be a circulation debris pattern evident when surveying tornado damage.

The downburst pattern was bounded from 8 miles west of Post, or beginning at the intersection of Highway 380 and County Road 125, to beyond a mile just past County Road 105. The damage pattern was observed up to two miles south of this location along FM 1313.

The debris field started with a snapped stop sign at the intersection of Highway 380 and County Road 125 with 3 cotton trailers and a small cylindrical oil tank blown over, all from a north to south direction. Following this location, along Highway 380, a series of power poles and lines were blown over, snapped, and/or ripped from the ground for a stretch of 1 mile by the downburst wind. All of these poles were blown from a north to south direction.

Farther to the south between county roads 105/115/125 and along Fm1313, numerous large trees were snapped and/or uprooted and a few center pivot irrigation systems were blown over. A manufactured home located on County Road 125 sustained damage with layers of shingles lifted off the roof, landing a short distance in the backyard. The front attached patio/walkway was pushed toward the left-front of the home by gusty wind. The debris at this location was blown from an east to west direction and was likely the result of moderate east/southeast inflow in the immediate vicinity of the rotating mesocyclone in the severe thunderstorm. Noted was a small shed and trees adjacent to the home that sustained no impacts from the apparent less than severe inflow winds responsible for peeling off the shingles from the roof. No rotation was evident in the pattern of debris fall from the shingles.

The Texas Tech/West Texas mesonet station, located 5 miles south of Graham, measured a 69 mph wind gust from the north at 6:35 PM CST. Graham is located approximately 6 miles southeast of the manufactured home. Interviewing local utility crews, a total of 49 power poles were destroyed and several acres of cotton were damaged and/or destroyed.



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TEXAS, South Panhandle

Garza County

5 SW Graham Chapel	27	1835CST			0	0			Thunderstorm Wind (MG60)
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Measured by the Texas Tech/West Texas mesonet station.

Lubbock County

10 SW Lubbock	27	1837CST			0	0			Hail(1.00)
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Lubbock County

10 SW Lubbock	27	1838CST			0	0			Hail(0.75)
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Parmer County

Lariat	27	1840CST 1900CST			0	0			Flash Flood
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Numerous areas of flooded roadways.

Parmer County

Lariat	27	1840CST			0	0			Hail(2.00)
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Lubbock County

10 SW Lubbock	27	1841CST			0	0			Hail(0.88)
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Lynn County

7 E Tahoka	27	1850CST			0	0			Hail(0.88)
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Bailey County

3 W Muleshoe	27	1858CST			0	0			Hail(1.75)
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Bailey County

6 W Muleshoe	27	1900CST			0	0			Hail(4.25)
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Hockley County

Levelland	27	2035CST			0	0	650K		Hail(1.00)
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Hockley county: The Texas Tech/West Texas mesonet station, located 4 miles south of Levelland, measured a wind gust of 57 mph from the north at 8:40 PM CST. Quarter sized hail was reported at 8:35 PM CST by the Levelland Fire Department. The impact from the hail driven by the damaging wind resulted in widespread damage to cotton crops/fields across the county.

Parmer County

22 SW Friona	27	2115CST 2125CST			0	0			Flash Flood
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Numerous flooded areas on Highway 145, FM 1731 and FM 333. One motorist was stranded on a flooded road and local First Responders performed successful rescue efforts.

Bailey County

10 SW Muleshoe	27	2125CST 2130CST			0	0			Flash Flood
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Numerous areas of flooded roadways along Highway 289



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					Killed	Injured	Property	Crops	

TEXAS, South Panhandle

Bailey County

**10 W Muleshoe to
10 NW Muleshoe**

27

2125CST
2130CST

0

0

Flash Flood

Numerous roads flooded. Highway 1760 under water from 10 miles west/northwest of Muleshoe, TX to the New Mexico State Line.

Parmer County

1 SW Lariat

27

2125CST
2130CST

0

0

Flash Flood

Flooded roadways in the vicinity of 16 miles northwest of Muleshoe, TX or approximately 1 mile to the southwest of Lariat

Lamb County

4 W Amherst

27

2130CST
2135CST

0

0

Flash Flood

Several areas of flooded roadway stretching from 4 to 8 miles west of Amherst, TX. One stranded motorist was rescued by First Responders.