



National Weather Service

Storm Data and Unusual Weather Phenomena



September 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

Briscoe County

20 NE Silverton **11** **1815CST** **0** **0** **Thunderstorm Wind (EG50)**
Structural damage to a concrete and cinder block wall; the structure was blown down at the intersection of Highway 70 and 256.

Motley County

Roaring Spgs **11** **2110CST** **0** **0** **Thunderstorm Wind (EG50)**
Matador Fire Department reported wind damage in Roaring Springs, TX including destruction to many car ports and out-buildings. Numerous trees and powerlines downed by thunderstorm wind gusts.

Lamb County

12 S Olton **12** **1715CST** **0** **0** **Hail(1.00)**

TXZ035

Lubbock

13 **1410CST**
1420CST **0** **0** **10K** **Strong Wind (MG49)**

The National Weather Service in Lubbock, TX conducted a damage survey on September 13, 2005 across portions of the City of Lubbock. A media storm chaser measured a thunderstorm wind gust of 56 mph near the Lubbock Christian University at 2:10 PM CST. In the vicinity, near the intersection of 29th Street and Bangor Street was a structure used as a roof covering to prevent water leaks into the residence. The covering was not secured well to the home and acted as a sail when the thunderstorm wind gust impacted the structure. The covering was blown off the roof and was damaged and also resulted in damage to a large tree adjacent to the residence. A few blocks to the east, near the intersection of 34th Street and Quaker Street, the SBC building sustained minor damage to an air conditioning unit. The covering to the unit was blown off the roof and into power lines where it was suspended. Small tree limbs were downed, however both areas had loose structures and/or items nearby that were not impacted

Dickens County

Dickens **13** **1723CST** **0** **0** **Hail(0.75)**

Lynn County

5 SW Grassland **14** **1525CST** **0** **0** **Hail(1.75)**
Citizen located 5 miles north of Draw.

Lynn County

5 E Tahoka **14** **1528CST** **0** **0** **Hail(1.75)**

Dickens County

Afton **14** **1539CST** **0** **0** **Hail(0.88)**

Dickens County

Afton **14** **1545CST** **0** **0** **Hail(1.75)**

Garza County

7 NW Post **14** **1545CST** **0** **0** **Hail(1.75)**

Garza County

2 NW Post **14** **1610CST** **0** **0** **Hail(1.75)**

Cottle County

10 SW Paducah **14** **1615CST** **0** **0** **Thunderstorm Wind (MG62)**
Measured by the Texas Tech/West Texas mesonet station. Several large trees downed by thunderstorm wind gusts as reported by an NWS Cooperative Observer near Paducah, TX.

King County

Dumont **14** **1625CST** **0** **0** **Thunderstorm Wind (EG57)**
Several large trees downed by estimated 65 mph winds from an NWS Cooperative Observer.

King County

Grow **14** **1630CST** **0** **0** **Hail(1.00)**
Reported by an NWS Cooperative Observer located 15 miles south of Paducah or near the town of Grow, TX.



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TEXAS, South Panhandle

Garza County

15 E Post 14 1635CST 0 0 Hail(1.75)

Kent County

10 WSW Clairemont 14 1700CST 0 0 Hail(1.75)

Crosby County

10 SE Crosbyton 14 1955CST 0 0 Thunderstorm Wind (MG54)
Measured by the Texas Tech/West Texas mesonet station located 6 miles northwest of White River Lake.

Lamb County

Littlefield 17 1505CST 0 0 Hail(0.75)

Lamb County

2 E Fieldton 17 1535CST 0 0 Hail(1.00)

Lamb County

Olton 17 1545CST 0 0 Hail(0.88)

Lynn County

1 N New Home 17 1606CST 0 0 Hail(1.00)

Lubbock County

3 S Woodrow 17 1612CST 0 0 Hail(1.25)

Lubbock County

4 W Slaton 17 1621CST 0 0 Hail(2.00)
Golfball to Hen egg sized hail covering the ground.

Hale County

Hale Center 17 1630CST 0 0 Hail(1.00)

Lubbock County

4 W Slaton 17 1636CST
1640CST 0 0 75K Hail(2.75)
Golfball, tennis ball and baseball sized hail covering the ground. Hail lasted for 4 minutes.

Lubbock County

Slaton 17 1640CST
1645CST 0 0 Hail(1.75)

Floyd County

2 NE Floydada 17 1715CST 0 0 Thunderstorm Wind (MG59)
Measured by the Texas Tech/West Texas mesonet station.

Floyd County

2 N Floydada 17 1716CST 0 0 Hail(0.88)

Floyd County

4 S Floydada 17 1716CST 0 0 Hail(0.88)

TXZ035

Lubbock

17 2300CST
2315CST 0 0 150K High Wind (MG58)

High winds associated with downburst and heat burst conditions resulted in extensive damage across the City of Lubbock, TX

A series of thunderstorms developed across the NWS Lubbock area of responsibility during the mid and late afternoon hours on Saturday, September 17 2005. A large ridge of high pressure was situated across southeast Texas. The clockwise circulation around this broad ridge allowed a channel of Pacific moisture to stream over the area and interact with sultry temperatures well into the 90s. In fact, the high temperature on Saturday at the Lubbock International Airport reached 98 degrees which tied the previous record set in 1997.

Between 8:30 PM CST and 12:30 AM CST, an area of dissipating thunderstorms progressed across the area from southwest to northeast over Terry, Hockley, Lubbock, Lynn, Garza and Crosby counties. As this activity pushed through the region, strong winds and associated heat bursts occurred at several locations. A heat burst occurs when air rapidly descends from a dissipating thunderstorm, typically with very little if any rainfall. As the air sinks, compression will force heating, drying and a rapid rise in



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TEXAS, South Panhandle

surface temperature. In addition to a rise in temperature, heat bursts can be accompanied by strong and gusty wind

The hail and strong winds Saturday night and early Sunday morning resulted in varied amounts of damage across the area. Large trees and/or tree branches were downed; structural damage occurred to car ports and overhang protection to resident porches; cotton plants were destroyed; automobiles, roofing and related structures were damaged. The damage to automobiles and other windows occurred as nearby gravel was lifted by the strong wind and penetrated windshields and side windows.

The National Weather Service in Lubbock, TX conducted a damage survey at the Memorial Baptist Church in Lubbock. The church had a large hail and rain roof in place above a permanent roof. This covering was made of sheet metal and had an overlap of approximately six inches on the south facing wall. When the strong south wind ranging between 65 and 70 mph breached this roof, the metal was peeled off and became airborne and landed on trees on the north side of the church, as well as a residence across the street.

Several of the Texas Tech/West Texas mesonet stations measured the heat burst and high wind events. The National Weather Service Forecast Office in Lubbock, located in the Science Spectrum Building, measured a 15 degree rise in temperature with a 67 mph wind gust at 10:55 PM CST. The following are some of the more significant measurements:

- Brownfield 2 south, 8 degree rise, 53 mph gust, 9:25 PM CST.
- Lubbock 3 west, 13 degree rise, 53 mph gust, 11:10 PM CST.
- Slaton 2 northeast, 15 degree rise, 56 mph gust, 11:30 PM CST.
- Ralls 1 southeast, 12 degree rise, 57 mph gust, 12:20 AM CST.

In comparison, stations measuring less rise in temperature measured lower wind speed gusts

- Lamesa 2 southeast, 5 degree rise, 27 mph gust, 10:35 PM CST.
- Graham 5 southwest, 4 degree rise, 35 mph gust, 11:10 PM CST.