

Storm Data and Unusual Weather Phenomena - August 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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TEXAS, South Panhandle

LYNN COUNTY

8.8 WNW NEW HOME	08/02/07 12:51 CST	0	0	Tornado (EF0, L: 0.25 mi , W: 75 yd)
8.5 WNW NEW HOME	08/02/07 12:55 CST	0	0	33.3684N, 102.06W ~ 33.367N, 102.056W

Numerous reports were received of a tornado in extreme northwestern Lynn County. The tornado was highly visible from Lubbock, Wolfforth, and even from portions of Terry County.

A Texas Tech University West Texas Mesonet meteorologist initially witnessed a developing funnel cloud to the distant south from Reese Center at 12:49 CST. A ground circulation was first seen at 12:51 CST, and the tornado reportedly dissipated rapidly at 12:55 CST.

The tornado remained over open fields southwest of the intersection of Farm to Market Roads 179 and 41 (intersection actually in extreme southwestern Lubbock County). A Wolfforth city employee observed the tornado from just south of Farm to Market Road 41 west of that intersection, and reported that it was south of his location, in extreme northwestern Lynn County. Radar additionally indicated a weak convective shower there. Initial reports indicated that debris was spotted in the tornadic circulation, but no damage was discovered by local authorities.

Thunderstorms developed near a weak surface boundary over the southern and central South Plains during the afternoon hours of the 2nd. Steep low level lapse rates allowed for enhanced stretching beneath thunderstorm updrafts in vicinity of the boundary, and at least one landspout tornado developed. No damage was reported.

LUBBOCK COUNTY

4.0 E WOODROW	08/07/07 16:08 CST	0	0	Hail (1.00 in)
	08/07/07 16:13 CST	0	0	33.45N, 101.751W

An isolated thunderstorm developed in intense afternoon heating along a weak convergent boundary. The storm briefly became severe and produced large hail up to between nickel and quarter size along Farm to Market Road 1585 near the Llano Estacado Winery just south of Lubbock.

CHILDRESS (TX-Z026), MOTLEY (TX-Z031), COTTLE (TX-Z032), CROSBY (TX-Z036), DICKENS (TX-Z037), KING (TX-Z038), GARZA (TX-Z042), KENT (TX-Z043), STONEWALL (TX-Z044)

	08/17/07 21:00 CST	0	0	Tropical Depression
	08/18/07 17:00 CST	0	0	

Tropical Depression "Erin", previously a tropical storm during landfall on the middle Texas coast early on the 16th, brought large amounts of rain to portions of west Texas. This rain fell primarily on the 17th and 18th of August on the South Plains and Rolling Plains before the system moved northeastward over Oklahoma.

"Erin" maintained a defined circulation well after making landfall, and even strengthened significantly over Oklahoma early on the 19th. Although widespread on the Rolling Plains, the storm didn't bring rainfall to all of the South Plains. Storm rain totals displayed a sharp cutoff in rainfall from east to west on the Caprock escarpment.

The heaviest rainfall in the area fell to the south and east of Lubbock across the southern Rolling Plains, with amounts quickly cutting off north and west of Lubbock. The largest rainfall total recorded in the region was measured at the Texas Tech University West Texas Mesonet site near Aspermont (Stonewall County), at 6.10 inches. Totals that ranged between 2.00 to 4.00 inches were common over many locations east of Lubbock. In addition, wind gusts between 40 and 50 mph were common along the storm's path.

As a result of the persistent heavy rainfall, minor flooding was observed along the Double Mountain Fork of the Brazos River near Aspermont (Stonewall County), but no public impacts were reported. The crest on the river receded after only a few hours.

COCHRAN COUNTY

MORTON	08/24/07 15:50 CST	0	0	Thunderstorm Wind (EG 52 kt)
	08/24/07 15:55 CST	0	0	33.72N, 102.77W

Local media affiliates relayed reports of thunderstorm winds estimated near 60 mph in Morton. The gusts downed several large trees.

COCHRAN COUNTY

MORTON	08/24/07 15:53 CST	0	0	Hail (0.75 in)
	08/24/07 15:53 CST	0	0	33.72N, 102.77W

Local authorities reported penny size hail in Morton shortly before 16:00 CST.

SWISHER COUNTY

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HAPPY	08/24/07 16:31 CST		0	Hail (1.00 in)
	08/24/07 16:31 CST		0	34.73N, 101.85W

Fire department officials reported large hail that ranged between penny and quarter size in Happy. The hail was accompanied by damaging thunderstorm winds.

SWISHER COUNTY

HAPPY	08/24/07 16:31 CST		10K	Thunderstorm Wind (EG 52 kt)
	08/24/07 16:31 CST		0	34.73N, 101.85W

Fire department officials reported that thunderstorm winds downed large tree limbs up to three inches in diameter and damaged fences. The winds were accompanied by large hail up to the size of quarters. No structural damage was reported.

PARMER COUNTY

5.0 W LAZBUDDIE	08/24/07 18:25 CST		0	Hail (0.75 in)
	08/24/07 18:25 CST		0	34.38N, 102.708W

The public reported penny size hail west of Lazbuddie near the intersection of Texas Highway 214 and Farm to Market Road 145. The hail was accompanied by damaging thunderstorm wind gusts.

PARMER COUNTY

5.0 W LAZBUDDIE	08/24/07 18:25 CST		0	Thunderstorm Wind (EG 52 kt)
	08/24/07 18:25 CST		0	34.38N, 102.708W

The public reported thunderstorm wind gusts that downed large tree limbs up to three inches in diameter near the intersection of Texas Highway 214 and Farm to Market Road 145 west of Lazbuddie. The damaging winds were accompanied by hail up to the size of pennies.

CASTRO COUNTY

2.0 NE DIMMITT	08/24/07 18:30 CST		0	Thunderstorm Wind (MG 51 kt)
NAZARETH	08/24/07 19:00 CST		0	34.5704N, 102.295W ~ 34.55N, 102.1W

Severe thunderstorms produced a swath of severe wind gusts over central and eastern portions of Castro County between 18:30 and 19:00 CST on the 24th. An initial gust of 59 mph was recorded by the Texas Tech University West Texas Mesonet near Dimmitt at 18:30 CST. By 19:00 CST the public estimated wind gusts as high as 60 mph in Nazareth. No damage was reported.

SWISHER COUNTY

2.0 ENE TULIA	08/24/07 19:25 CST		0	Thunderstorm Wind (MG 52 kt)
	08/24/07 19:25 CST		0	34.5411N, 101.738W

The Texas Tech University West Texas Mesonet site near Tulia measured a severe thunderstorm wind gust of 60 mph. No damage was reported.

HALE COUNTY

PLAINVIEW	08/24/07 19:50 CST		0.28M	Thunderstorm Wind (EG 70 kt)
5.0 ENE ABERNATHY	08/24/07 20:15 CST		0	34.2N, 101.7W ~ 33.8577N, 101.77W

A linear complex of thunderstorms produced a destructive swath of damaging winds across much of Hale County during the evening hours of the 24th. Damage was initially reported in the city of Plainview, where a number of large trees and power lines were blown down just before 20:00 CST. One tree was blown onto a house, and caused minor structural damage. A Texas Tech University West Texas Mesonet site near Plainview recorded a peak gust of 65 mph.

The swath of wind damage continued to accompany the storms southward across the county. Fifty utility poles were broken south of Hale Center. Some of the poles were snapped near the ground just east of Interstate 27 along Farm to Market Road 37. Damage to the wooden poles suggest significantly strong wind speeds may have occurred in the area. By 20:15 CST, 60 mph winds were recorded by the Texas Tech University West Texas Mesonet just northeast of Abernathy.

FLOYD COUNTY

2.0 NE FLOYDADA	08/24/07 20:15 CST		15K	Thunderstorm Wind (MG 57 kt)
	08/24/07 20:15 CST		0	34.0004N, 101.305W

The Texas Tech University West Texas Mesonet site near Floydada recorded a peak wind gust of 66 mph as a gust front raced southward in advance of a severe convective complex over Floyd County. Local officials reported that numerous street signs were downed and several tin roofs sustained damage. Tree damage was additionally reported to be widespread.

CROSBY COUNTY

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1.0 SE RALLS	08/24/07 20:35 CST		0	Thunderstorm Wind (MG 55 kt)
	08/24/07 20:35 CST		0	33.6698N, 101.368W

The Texas Tech University West Texas Mesonet site near Ralls measured a peak gust of 63 mph as the severe storms impacted northern Crosby County. No damage was reported.

HALE COUNTY

COTTON CENTER	08/24/07 20:37 CST		0	Hail (0.75 in)
	08/24/07 20:37 CST		0	34N, 102W

A citizen reported penny size hail in Cotton Center.

LUBBOCK COUNTY

(LBB)LUBBOCK INTL AR	08/24/07 21:22 CST		0	Thunderstorm Wind (MG 54 kt)
	08/24/07 21:22 CST		0	33.67N, 101.82W

The Automated Surface Observing System at the Lubbock International Airport measured a severe thunderstorm wind gust of 62 mph. No damage was reported.

A complex of severe storms developed over the southern Texas Panhandle and the northwestern South Plains during the late afternoon and early hours of the 24th. These storms evolved into a bow-shaped linear complex and produced widespread damaging winds up to 66 mph over portions of the area. The most significant damage occurred in Hale County, where more than fifty utility poles were destroyed and minor structural damage was reportedly caused by falling trees in Plainview. Damage estimates across the South Plains region approached \$300,000. No injuries were recorded.