

## Storm Data and Unusual Weather Phenomena - August 2016

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

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#### PARMER COUNTY --- 0.7 WNW FRIONA BENDER ARPK [34.65, -102.69]

08/02/16 18:40 CST		0		Thunderstorm Wind (MG 58 kt)
08/02/16 18:40 CST		0		Source: Mesonet

Measured by a Texas Tech University West Texas mesonet near Friona.

**A cluster of high-based monsoonal thunderstorms created a severe downburst near Friona.**

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#### LUBBOCK COUNTY --- 2.7 SE BURRIS [33.50, -101.75]

08/10/16 15:37 CST		10K		Thunderstorm Wind (EG 61 kt)
08/10/16 15:37 CST		0		Source: Broadcast Media

A portion of the roof to the Coors Distributors main office was blown off during a wet downburst . The extent of rain damage to the office's contents was not known.

**Late this afternoon, a wet downburst crossed U.S. Highway 84 southeast of Lubbock and damaged an industrial roof.**

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#### HALE COUNTY --- 2.1 NNE ABERNATHY MUNI ARPT [33.88, -101.76]

08/23/16 16:20 CST		0		Thunderstorm Wind (MG 51 kt)
08/23/16 16:20 CST		0		Source: Mesonet

Measured by a Texas Tech University West Texas mesonet located 5 miles ENE of Abernathy.

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#### HALE COUNTY --- 3.5 ENE COUNTYLINE [33.83, -101.97], 2.7 ESE ABERNATHY MUNI ARPT [33.83, -101.73], 1.9 ENE PETERSBURG [33.88, -101.57], 8.4 N PETERSBURG [33.99, -101.58]

08/23/16 17:30 CST		0		Flood (due to Heavy Rain)
08/23/16 23:00 CST		0.15M		Source: Department of Highways

The Texas Department of Transportation noted that nearly all roads from Abernathy to just north of Petersburg had stretches of standing water for several hours following rainfall as great as 3.5 inches.

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#### HOCKLEY COUNTY --- 1.5 SSE LEVELLAND MUNI ARPT [33.53, -102.36]

08/23/16 17:45 CST		0		Thunderstorm Wind (MG 56 kt)
08/23/16 17:45 CST		0		Source: Mesonet

Measured by a Texas Tech University West Texas mesonet located 4 miles south of Levelland.

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#### LUBBOCK COUNTY --- 3.1 NNW SHALLOWATER ARPT [33.72, -102.03], 4.5 NNW SHALLOWATER ARPT [33.74, -102.03]

08/23/16 18:00 CST		4K		Thunderstorm Wind (EG 56 kt)
08/23/16 18:00 CST		0		Source: NWS Employee

An off-duty NWS employee observed damage to road signs along County Road 179 northwest of Shallowater.

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#### LUBBOCK COUNTY --- 3.7 WNW SHALLOWATER ARPT [33.70, -102.06], 1.5 SSW SHALLOWATER [33.66, -101.99], 5.2 E ABERNATHY [33.82, -101.76], 4.9 NW CALDWELL [33.82, -101.98]

08/23/16 18:30 CST		12K		Flood (due to Heavy Rain)
08/23/16 21:00 CST		75K		Source: NWS Employee

Widespread street flooding occurred in Shallowater following torrential rainfall rates of nearly 8 inches per hour. Some homes northwest of Shallowater suffered water damage to carpeting after floodwaters briefly rose to the base of the structures .

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#### COTTLE COUNTY --- 8.6 SSE NARCISSO [33.89, -100.40]

08/23/16 20:35 CST		0		Thunderstorm Wind (MG 66 kt)
08/23/16 20:35 CST		0		Source: Mesonet

Measured by a Texas Tech University West Texas mesonet located 10 miles SW of Paducah.

**Numerous slow-moving thunderstorms developed late this afternoon from near Levelland northeast to Floydada, before expanding into the northern Rolling Plains after sunset. Very rich moisture and strong instability of around 2000 J/kg of CAPE resulted in some wet downbursts and torrential rainfall. Instantaneous rainfall rates were measured as great as 7.8 inches per hour by a NWS employee in**

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**Shallowater.** Widespread minor flooding was common along a swath from Shallowater (northwest Lubbock County) northeast to Petersburg (southeast Hale County) where between 1.5 and 3.5 inches of rain was measured. Flooding of fields and subsequent damage to cotton and sorghum crops was most concentrated from about 3 miles north of Shallowater to 8 miles northeast of Abernathy.



*Torrential rainfall rates of 7.8 inches per hour produced widespread street flooding in Shallowater. Photo courtesy of Bruce Haynie.*

**CHILDRESS COUNTY --- 9.3 W LOCO [34.72, -100.31], 8.7 W LOCO [34.72, -100.30]**

08/25/16 15:15 CST	0	Hail (1.75 in)
08/25/16 15:20 CST	0	Source: Storm Chaser

A storm chaser reported copious amounts of hail as large as golf ball size along Texas Highway 256. Dense fog was also observed from the hail. Damage information was not available.

**SWISHER COUNTY --- 0.8 N HAPPY [34.74, -101.85]**

08/25/16 16:17 CST	0	Hail (1.00 in)
08/25/16 16:17 CST	0	Source: Public

The public reported quarter size hail in Happy. No damage accompanied the hail.

**Scattered thunderstorms developed during the mid-afternoon along a weak cold front in the southern Texas Panhandle. A few of these storms acquired rotation along the boundary and intensified to severe levels.**

**LUBBOCK COUNTY --- 0.9 N SLATON [33.44, -101.65]**

08/28/16 18:50 CST	1	Lightning
08/28/16 18:50 CST	0	Source: Broadcast Media

Direct Fatalities: M23OU

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A man walking near a playa lake in northwest Slaton was struck by lightning. The individual was transported to Lubbock UMC Hospital with critical injuries and later succumbed to their injuries on 2 September.

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**BRISCOE COUNTY --- 9.0 W SILVERTON [34.47, -101.46], 9.6 W SILVERTON [34.47, -101.47]**

08/29/16 13:31 CST	0	Tornado (EFU, L: 0.61 mi , W: 50 yd)
08/29/16 13:37 CST	0	Source: Public

A motorist on Texas Highway 86 west of Silverton photographed a tornado south of the highway moving slowly westward. No damage survey was conducted as the tornado remained over farmland. The times of the tornado were determined from the photos' exif data, with location and movement approximated from radar.

In the middle of a very wet and unsettled pattern, a low-based thunderstorm west of Silverton produced a 6-minute tornado over farmland early this afternoon.

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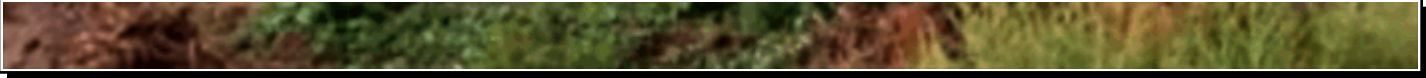
Deaths &  
Injuries

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*A motorist west of Silverton, TX photographed this tornado moving northwest over open farmland on August 29, 2016. Photo courtesy of Dustin Bach.*

**CHILDRESS COUNTY --- 0.9 E (CDS)CHILDRESS ARPT [34.43, -100.28]**

08/30/16 13:11 CST			4.50K	Lightning
08/30/16 13:11 CST			0	Source: NWS Employee

A lightning strike at the Childress ASOS caused an estimated \$4500 in combined damage and service costs to fully repair a power transformer.

**LUBBOCK COUNTY --- 3.6 NW SLIDE [33.46, -101.94], 2.8 SSE (LBB)LUBBOCK INTL AR [33.63, -101.81], 2.3 ESE BROADVIEW [33.64, -101.91], 3.1 SSW WOLFFORTH [33.46, -102.05]**

08/31/16 15:05 CST			0.25M	Flood (due to Heavy Rain)
08/31/16 17:00 CST			0	Source: Broadcast Media

**LUBBOCK COUNTY --- 2.5 NNE SLIDE [33.45, -101.89]**

08/31/16 15:48 CST			3K	Lightning
08/31/16 15:48 CST			0	Source: NWS Employee


A lightning strike damaged multiple computer servers at a NWS employee's home. The time of the strike was determined from Texas Tech University's lightning mapping array.

A collision of two outflow boundaries directly over the city of Lubbock around 1445 CST resulted in a stationary line of thunderstorms for about the next 40 minutes. These storms extended from Wolfforth northeast to just beyond Texas Tech University. Instantaneous rain rates as great as 6.6 inches per hour were recorded by a retired NWS employee's automated gauge near 42nd Street and Chicago Avenue. Although most total rain amounts within this swath were 1.6 inches or less, the fierce rate at which this fell created widespread street flooding.

Lubbock Police responded to nearly two dozen cases of motorists who stalled their vehicles after attempting to drive through standing water of 1 to 3 feet. Some of these vehicles, including one whose engine caught on fire, would likely be a complete loss. Dozens of other vehicles parked in low lying areas suffered extensive water damage to upholstery and electronics. A few homes in northwest Lubbock received varying degrees of water damage after floodwaters briefly rose into their homes.

Additional storms during the time of the flooding affected far southern Lubbock County. A lightning strike from these storms struck an NWS employee's home near Woodrow damaging multiple computer servers.

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*One of dozens of cars that became stranded from flooding in northwest Lubbock on 8/31/16. Photo courtesy of Hannah Woodlee.*