

Storm Data and Unusual Weather Phenomena - August 2017

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

COCHRAN COUNTY --- 14.5 S WHITEFACE [33.39, -102.61]				
	08/05/17 17:20 CST		0	Thunderstorm Wind (MG 50 kt)
	08/05/17 17:20 CST		0	Source: Mesonet

Measured by a Texas Tech University West Texas mesonet in extreme southeast Cochran County.

A pulse thunderstorm produced a severe wind gust in far southeast Cochran County late this afternoon.

LUBBOCK COUNTY --- 0.7 N (REE)REESE AFB LUBBO [33.61, -102.05], 4.1 S WOLFFORTH [33.44, -102.02]				
	08/07/17 17:25 CST		0	Thunderstorm Wind (MG 50 kt)
	08/07/17 17:53 CST		0	Source: Mesonet

Measured by a Texas Tech University West Texas mesonet at Reese Center. This same storm continued moving south and produced similar winds at a NWS employee's home south of Wolfforth.

LUBBOCK COUNTY --- 5.7 SSW WOLFFORTH [33.42, -102.05]				
	08/07/17 17:45 CST		0	Heavy Rain
	08/07/17 18:05 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet southwest of Wolfforth measured 1.54 inches of rain in 20 minutes; 0.42 inches of which fell in just five minutes.

Late this afternoon, a pulse thunderstorm drifted south along the Lubbock and Hockley County line. A series of traveling downbursts accompanied this storm from Reese Center south to extreme southwest Lubbock County, along with torrential rainfall rates of up to 0.42 inches in just five minutes.

HALL COUNTY --- 0.8 W TURKEY [34.40, -100.89], 1.0 SW TURKEY [34.39, -100.89]				
	08/13/17 20:30 CST		2.50M	Thunderstorm Wind (EG 104 kt)
	08/13/17 20:45 CST		0	Source: NWS Storm Survey

For approximately 15 minutes, a barrage of northerly winds of 60 mph to as great as 120 mph inflicted heavy damage in the city of Turkey, located in far southwest Hall County. NWS Lubbock meteorologists conducted a ground and aerial damage survey at Turkey the following afternoon. All available evidence including radar, damage patterns, eyewitness accounts, and most notably a 15-minute duration of high winds indicated that a series of wet microbursts moved from north to south across Turkey. Several homes and businesses suffered damage, most notably the Turkey Compress which was totally destroyed. At least two homes suffered major damage and were deemed uninhabitable. Numerous large trees and power poles were snapped, building and car windows broken, garage doors collapsed, and other extensive damage occurred to car ports and canopies. Power in the city was not restored until nearly 12 hours later. Despite a large amount of airborne debris that affected the city, no fatalities or injuries occurred. Peak wind speeds were estimated to be in the 100-120 mph range based on the degree of damage. It is important to note that the most severely damaged structures were particularly old and not well maintained, including one home built in 1927. Homes that suffered roof damage or even broken windows also sustained extensive water damage from torrential rains that followed the series of microbursts.

HALL COUNTY --- 1.3 WSW TURKEY [34.39, -100.90]				
	08/13/17 20:40 CST		0	Thunderstorm Wind (EG 59 kt)
	08/13/17 20:50 CST		0	Source: Mesonet

Severe winds of 58 mph to 68 mph were measured for 10 consecutive minutes by a Texas Tech University West Texas mesonet southwest of Turkey.

HALL COUNTY --- 0.8 SW TURKEY [34.39, -100.89]				
	08/13/17 20:45 CST		0	Heavy Rain
	08/13/17 23:59 CST		0	Source: COOP Observer

Torrential rain of 3.02 inches was measured by a NWS Cooperative Observer at the Valley Peanut Growers in Turkey.

HALL COUNTY --- 1.3 W TURKEY [34.40, -100.90], 1.5 SW TURKEY [34.39, -100.90], 0.8 SSW TURKEY [34.39, -100.89], 0.4 W TURKEY [34.40, -100.89]				
	08/13/17 20:53 CST		0	Flood (due to Heavy Rain)
	08/13/17 23:00 CST		0	Source: Law Enforcement

Law enforcement reported flash flooding in Turkey, TX, primarily along State Highway 86.

Two rounds of strong and severe thunderstorms moved southeast across the southern Texas Panhandle this evening. The first round

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consisted of a discrete supercell thunderstorm that moved from northern Briscoe County to southwest Hall County. Although this storm exhibited strong rotation with a likelihood of very large hail at times, no ground truth of severe weather was obtained. Immediately on the heels of this supercell, a large line of storms spread southward accompanied by a series of destructive microbursts in far southwest Hall County. Multiple homes, buildings and trees in Turkey sustained moderate to substantial damage from straight line winds determined as high as 120 mph. Following the damaging winds, torrential rains measured as great as 3.06 inches in Turkey led to flash flooding and brief closures area streets and roads.



Aerial view of a large warehouse in Turkey, TX destroyed by intense microburst winds. Photo from NWS Lubbock staff.

BRISCOE COUNTY --- 3.0 NNE GASOLINE [34.37, -100.99]

08/20/17 17:45 CST	10K	Thunderstorm Wind (EG 52 kt)
08/20/17 17:45 CST	0	Source: Park/Forest Service

A Texas Parks and Wildlife Department employee reported thunderstorm wind damage at Valley Schools on State Highway 86 between Turkey and Quitaque. A metal roof was torn off of a building.

Isolated thunderstorms developed over the extreme southeastern Texas Panhandle during the afternoon and evening of the 20th. One of these storms became severe over Briscoe County. A metal roof was torn off of a building at Valley Schools along State Highway 86 between Quitaque (Briscoe County) and Turkey (Hall County).

LUBBOCK COUNTY --- (LBB)LUBBOCK INTL AR [33.67, -101.82]

08/21/17 16:15 CST	0	Thunderstorm Wind (MG 50 kt)
08/21/17 16:15 CST	0	Source: ASOS

Measured by the ASOS at Lubbock International Airport.

HALE COUNTY --- 8.8 SE SETH WARD [34.13, -101.57]

08/21/17 16:19 CST	0	Thunderstorm Wind (MG 51 kt)
08/21/17 16:19 CST	0	Source: Mesonet

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Measured by a Texas Tech University West Texas mesonet near Aiken.				
MOTLEY COUNTY --- 0.7 S NORTHFIELD [34.27, -100.60]				
	08/21/17 18:30 CST		0	Thunderstorm Wind (MG 50 kt)
	08/21/17 18:30 CST		0	Source: Mesonet
Measured by a Texas Tech University West Texas mesonet near Northfield.				
Scattered thunderstorms late this afternoon resulted in a few instances of severe wind gusts from the South Plains into the northern Rolling Plains.				
SWISHER COUNTY --- 2.0 ENE TULIA [34.54, -101.74]				
	08/22/17 14:30 CST		0	Heavy Rain
	08/22/17 16:30 CST		0	Source: Mesonet
Backbuilding thunderstorms produced 3.45 inches of rain as measured by a Texas Tech University West Texas Mesonet located near Tulia . Radar estimated just over four inches of rain a short distance north of this mesonet.				
SWISHER COUNTY --- 1.8 ENE TULIA [34.54, -101.74]				
	08/22/17 16:05 CST		0	Thunderstorm Wind (MG 55 kt)
	08/22/17 16:05 CST		0	Source: Mesonet
Measured by a Texas Tech University West Texas mesonet near Tulia.				
SWISHER COUNTY --- 7.8 WSW TULIA ARPT [34.52, -101.91], 3.0 ESE TULIA [34.52, -101.72], 3.8 ENE TULIA [34.56, -101.71], 7.0 W TULIA ARPT [34.55, -101.90]				
	08/22/17 16:15 CST		0	Flash Flood (due to Heavy Rain)
	08/22/17 18:00 CST		0	Source: Law Enforcement
Law enforcement in Tulia reported water flowing across streets and lawns in Tulia . The underpass at the junction of State Highway 86 and 87 was closed through the night from water up to five feet deep. Just east of Tulia, the Middle Tule Creek rose out of its banks and partially flooded State Highway 86.				
HOCKLEY COUNTY --- 4.0 S LEVELLAND [33.52, -102.37]				
	08/22/17 17:30 CST		0	Heavy Rain
	08/22/17 17:55 CST		0	Source: Mesonet
A slow-moving, rotating thunderstorm produced incredible rainfall rates up to 0.69 inches in just five minutes (8.28 inches per hour) as measured by a Texas Tech University West Texas Mesonet.				
HOCKLEY COUNTY --- 1.2 SSW LEVELLAND MUNI ARPT [33.53, -102.38], 4.0 S LEVELLAND MUNI ARPT [33.49, -102.37]				
	08/22/17 17:45 CST		42K	Thunderstorm Wind (EG 52 kt)
	08/22/17 17:45 CST		0	Source: Utility Company
A series of downbursts damaged 19 utility poles along US Highway 385 and FM Road 1585 in southeast Hockley County. These winds inflicted minor damage to a mesonet belonging to the Texas Tech University West Texas Mesonet .				
LUBBOCK COUNTY --- 1.7 W LUBBOCK [33.58, -101.88]				
	08/22/17 18:00 CST		0.50K	Thunderstorm Wind (EG 52 kt)
	08/22/17 18:00 CST		0	Source: Social Media
An outdoor metal canopy was damaged from high winds during the passage of a gust front.				
HOCKLEY COUNTY --- 4.7 W LOCKETTVILLE [33.39, -102.40], 2.2 NW LEVELLAND [33.60, -102.40], 5.4 ENE SMYER [33.60, -102.08], 0.9 SW ROPESVILLE MCNABB AR [33.39, -102.08]				
	08/22/17 18:14 CST		0	Flash Flood (due to Heavy Rain)
	08/22/17 18:45 CST		0	Source: Law Enforcement
Law enforcement reported water and mud overflowing sections of roads in southeast Hockley County. The flash flooding forced the closure of FM Road 1585, FM Road 168 and County Road 41 for a few hours. One section of FM Road 1585 had water up to the headlights of a car. Travel was still impeded the following day until mud could be plowed free from the road.				
LYNN COUNTY --- 2.1 N TAHOKA [33.21, -101.78]				

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	08/22/17 18:27 CST		0	Thunderstorm Wind (MG 54 kt)
	08/22/17 18:34 CST		0	Source: Mesonet

Measured by a Texas Tech University West Texas mesonet near Tahoka at 1828 CST. Severe gusts of 58 mph and 59 mph were also measured at 1827 CST and 1834 CST, respectively.

Numerous slow-moving thunderstorms erupted this afternoon in the southern Texas Panhandle along a weak cold front, before spreading south through the South Plains and Rolling Plains throughout the evening. Some of these storms redeveloped over the same areas, most notably in central Swisher County where Tulia and the nearby Middle Tule Creek experienced flash flooding from over four inches of rain in less than one hour. In Hockley County, a favorable merger of outflow boundaries supported a rotating thunderstorm that produced a swath of damaging winds and flash flooding. In addition to damaging several power poles and a Texas Tech University West Texas Mesonet, this storm produced incredible rainfall rates measured as great as 0.69 inches in 5 minutes, or 8.28 inches per hour.