

Storm Data and Unusual Weather Phenomena - June 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
----------	-----------	-------------------	---------------------	------------------------

TEXAS, South Panhandle

BAILEY COUNTY --- 33.5 WNW SUDAN [34.31, -103.04], 14.3 WNW EARTH [34.31, -102.63], 10.1 SW BECK [33.83, -102.63], 27.0 WSW FRIENDSHIP [33.84, -103.04]

06/01/16 09:30 CST	0	Flood (due to Heavy Rain)
06/01/16 17:00 CST	0.20M	Source: Department of Highways

LAMB COUNTY --- 13.2 WNW EARTH [34.31, -102.61], 9.3 NNE OLTON [34.31, -102.09], 7.1 SSE SPADE [33.83, -102.09], 9.5 SSW BECK [33.83, -102.61]

06/01/16 09:30 CST	0	Flood (due to Heavy Rain)
06/01/16 17:00 CST	0.35M	Source: Department of Highways

TERRY COUNTY --- 2.3 SW MEADOW [33.31, -102.23], 2.3 SW MEADOW [33.31, -102.23]

06/01/16 10:20 CST	0	Tornado (EFU, L: 0.04 mi , W: 40 yd)
06/01/16 10:21 CST	0	Source: Broadcast Media

Late this morning, a motorist traveling northeast on US Highway 62 photographed a short-lived tornado to their west over open land. Radar features indicated the possibility of a tornadic storm in the area at this time which added credibility to the photo. The time and location are estimated from radar.

LUBBOCK COUNTY --- 3.9 NW SHALLOWATER ARPT [33.71, -102.05], 1.7 SW CALDWELL [33.75, -101.94], 4.1 NE BROADVIEW [33.68, -101.89], 2.5 NNE (REE)REESE AFB LUBBO [33.63, -102.04]

06/01/16 11:00 CST	50K	Flash Flood (due to Heavy Rain)
06/01/16 14:00 CST	0.15M	Source: NWS Employee

Torrential rainfall measured at 4.02 inches in Shallowater produced flash flooding, particularly on rural roads southeast of Shallowater that became inundated from bar ditches and playa lakes overflowing with mud and water.

LUBBOCK COUNTY --- 1.6 N CARLISLE [33.60, -101.97], 2.0 NW LUBBOCK [33.60, -101.88], 2.9 W LUBBOCK AIRPARK [33.48, -101.87], 4.3 NW SLIDE [33.46, -101.96]

06/01/16 11:27 CST	5M	Flash Flood (due to Heavy Rain)
06/01/16 14:30 CST	0	Source: Law Enforcement

Law enforcement reported significant flooding of streets and roads in west and southwest Lubbock - many of which had swiftly flowing water of a foot or more over them. Several playa lakes overflowed their banks and inundated homes, vehicles, and businesses. No injuries were reported, however some motorists required rescuing from water depths as great as five feet deep. Some streets and roads were closed for 18 hours due to standing water.

Northeast of a slow moving upper low near El Paso, a broad upper trough overspread the South Plains this day. Abundant moisture and very weak wind shear led to several lines and clusters of nearly stationary showers and storms with torrential rainfall. A nearly 90-mile long axis of heavy rain fell from the southwest side of Lubbock northwest to Littlefield (Lamb County), Muleshoe (Bailey County) and Farwell (Parmer County). Rainfall measurements of 2 to 4 inches were common in these areas. A retired NWS Lubbock employee in southwest Lubbock measured 5 inches and reported knee-deep water in his backyard. In addition to washing out large expanses of farmers' newly seeded fields, flooding stranded dozens of cars in southwest Lubbock alone. Many southwest Lubbock businesses, including the South Plains Mall, closed early for the day due to impassable streets and flooded parking lots. Several hundred homes suffered significant water damage to carpets and personal property. Additionally, funnel clouds accompanied a few of these slow moving storms. One motorist photographed a short-lived tornado north of Brownfield over open land around 1020 CST. Economic losses and property damage from the flooding would likely reach several million USD.

Storm Data and Unusual Weather Phenomena - June 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
----------	-----------	-------------------	---------------------	------------------------



A motorist photographed this short-lived tornado over open land about two miles southwest of Meadow, TX at 1020 AM CST. WSR-88D radar detected a small hook echo and reflectivity notch at this time. Photo relayed by KCBD-TV.

BAILEY COUNTY --- 5.0 NNW MULESHOE WARREN ARPT [34.30, -102.72]

06/09/16 17:50 CST	0	Hail (1.50 in)
06/09/16 17:50 CST	0	Source: Public

A farmer in Bailey County reported hail and wind damage north of Muleshoe.

BAILEY COUNTY --- 5.0 NNW MULESHOE WARREN ARPT [34.30, -102.72]

06/09/16 17:50 CST	0.25M	Thunderstorm Wind (EG 52 kt)
06/09/16 17:50 CST	0	Source: Public

A farmer in Bailey County reported hail and wind damage to his property north of Muleshoe. Several center pivot irrigation systems were knocked over. Also, a small shed was destroyed by high winds.

An upper level short wave moving southward on the east side of an upper level ridge acted upon a very unstable atmosphere to create scattered thunderstorms during the evening hours of the 9th. A lack of wind shear prevented thunderstorms from becoming organized

Storm Data and Unusual Weather Phenomena - June 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
and severe. However, one storm did reach severe levels in Bailey County destroying a shed and turning over several center pivot irrigation links.				
<hr/>				
COCHRAN COUNTY --- 1.0 ENE MORTON [33.73, -102.75]				
	06/11/16 17:10 CST		0	Thunderstorm Wind (MG 56 kt)
	06/11/16 17:10 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Morton measured a wind gust to 64 mph.				
<hr/>				
LAMB COUNTY --- 1.0 W LITTLEFIELD [33.92, -102.34], 4.0 SE LITTLEFIELD [33.88, -102.27]				
	06/11/16 18:41 CST		0.10M	Thunderstorm Wind (MG 65 kt)
	06/11/16 19:01 CST		0	Source: Trained Spotter
A trained spotter in Littlefield measured a gust to 75 mph with an anemometer mounted on top of his barn. Furthermore, numerous power poles were downed to the east and south of Littlefield due to high winds.				
<hr/>				
YOAKUM COUNTY --- 7.0 WNW DENVER CITY [33.01, -102.96]				
	06/11/16 18:45 CST		0	Thunderstorm Wind (MG 62 kt)
	06/11/16 18:45 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Denver City measured a wind gust to 71 mph.				
A remnant mesoscale convective vortex over the Rolling Plains coupled with a very unstable atmosphere resulted in scattered thunderstorm development over the Rolling Plains during the afternoon of the 11th. This activity developed a westward moving outflow boundary which initiated storms over the South Plains. By the evening hours, convection that had initiated over the higher terrain of eastern New Mexico was moving into West Texas. Some of these storms over the South Plains became severe producing mostly strong surface winds.				
<hr/>				
PARMER COUNTY --- BOVINA [34.52, -102.90]				
	06/13/16 17:12 CST		0	Hail (1.75 in)
	06/13/16 17:12 CST		0	Source: Law Enforcement
The Sheriff's office in Parmer County reported hail up to golf ball size in Bovina. No damage was reported.				
A weak short wave aloft lifting out of New Mexico was responsible for generating widespread severe thunderstorm activity from southeastern Colorado southward into east-central New Mexico. This lift was able to act upon ample instability in place contributing to the intense nature of the thunderstorms. Isolated thunderstorms on the southern end of this lift moved into the extreme southwestern Texas Panhandle with one storm becoming severe in Parmer County.				
<hr/>				
COTTLE COUNTY --- 6.3 W CHALK [33.87, -100.33]				
	06/14/16 18:37 CST		0	Hail (2.00 in)
	06/14/16 18:37 CST		0	Source: Storm Chaser
A storm chaser reported hail up to two inches in diameter south of Paducah along US Highway 83.				
A second consecutive night of severe weather took place across West Texas although coverage remained isolated. A dryline that had mixed out into the Rolling Plains provided enough convergence to initiate isolated thunderstorms over Motley County. These storms were able to take advantage of an extremely unstable atmosphere east of the dryline to create large hail in Cottle County.				
<hr/>				
FLOYD COUNTY --- 8.0 NNE LOCKNEY [34.23, -101.38]				
	06/15/16 16:12 CST		0	Hail (1.50 in)
	06/15/16 16:12 CST		0	Source: Fire Department/Rescue
The fire department in Lockney reported hail up to ping pong ball size north of Lockney.				
<hr/>				
BRISCOE COUNTY --- 13.5 NNE QUITAQUE [34.55, -100.96]				
	06/15/16 16:59 CST		0	Hail (2.75 in)
	06/15/16 17:03 CST		0	Source: Storm Chaser
A storm chaser reported baseball size hail. No damage was reported.				
<hr/>				
COCHRAN COUNTY --- 14.7 S WHITEFACE [33.39, -102.61]				
	06/15/16 17:10 CST		0	Thunderstorm Wind (MG 53 kt)
	06/15/16 17:10 CST		0	Source: Mesonet

Storm Data and Unusual Weather Phenomena - June 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A Texas Tech University West Texas mesonet site southwest of Sundown reported a wind gust to 61 mph.				
HOCKLEY COUNTY --- 6.0 SSW ANTON [33.74, -102.21]				
	06/15/16 17:35 CST		0	Thunderstorm Wind (MG 57 kt)
	06/15/16 17:35 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Anton measured a wind gust to 66 mph.				
LAMB COUNTY --- 6.0 S OLTON [34.09, -102.13], 5.0 SE LITTLEFIELD [33.87, -102.26]				
	06/15/16 17:45 CST		25K	Thunderstorm Wind (MG 65 kt)
	06/15/16 18:00 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Olton measured a wind gust to 75 mph. Furthermore, a NWS cooperative weather observed several power poles down along US Highway 84 southeast of Littlefield.				
HALE COUNTY --- COTTON CENTER [34.00, -102.00]				
	06/15/16 17:57 CST		50K	Thunderstorm Wind (EG 61 kt)
	06/15/16 17:57 CST		0	Source: Broadcast Media
Local broadcast media relayed a report of damage to the Cotton Center football field. The Cotton Center elementary school also lost a portion of the roof due to high winds.				
(TX-Z022) CASTRO, (TX-Z026) CHILDRESS, (TX-Z042) GARZA				
	06/15/16 18:20 CST		0	High Wind (MAX 56 kt)
	06/15/16 23:20 CST		0	
HALE COUNTY --- 1.0 S PLAINVIEW [34.19, -101.70]				
	06/15/16 18:30 CST		0	Thunderstorm Wind (MG 54 kt)
	06/15/16 18:30 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Plainview reported a wind gust to 62 mph.				
HALE COUNTY --- 8.7 SE SETH WARD [34.13, -101.57]				
	06/15/16 18:32 CST		0	Thunderstorm Wind (MG 60 kt)
	06/15/16 18:32 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Aiken measured a wind gust to 69 mph.				
LUBBOCK COUNTY --- (LBB)LUBBOCK INTL AR [33.67, -101.82]				
	06/15/16 18:41 CST		0	Thunderstorm Wind (MG 69 kt)
	06/15/16 18:41 CST		0	Source: ASOS
The Automated Surface Observation System at Lubbock Preston Smith International Airport reported a wind gust to 79 mph.				
BRISCOE COUNTY --- SILVERTON [34.47, -101.30]				
	06/15/16 19:01 CST		0	Hail (1.75 in)
	06/15/16 19:01 CST		0	Source: Emergency Manager
The emergency manager in Silverton reported golf ball size hail. No damage was reported.				
BRISCOE COUNTY --- 3.0 N QUITAQUE [34.41, -101.05]				
	06/15/16 19:25 CST		0	Thunderstorm Wind (MG 54 kt)
	06/15/16 19:25 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site in Caprock Canyons State Park measured a wind gust to 62 mph.				
HALL COUNTY --- 2.0 WSW TURKEY [34.39, -100.91], 6.1 SW BRICE [34.63, -100.94]				
	06/15/16 19:45 CST		0	Thunderstorm Wind (MG 54 kt)
	06/15/16 20:00 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Turkey measured a wind gust to 62 mph. Additionally, a storm chaser along Texas State Highway 70 north of Turkey estimated wind gusts to 65 mph.				

Storm Data and Unusual Weather Phenomena - June 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
----------	-----------	-------------------	---------------------	------------------------

Very hot temperatures during the afternoon was enough to break an inversion that resulted in scattered thunderstorms within an unstable airmass. With a deeply mixed boundary layer, the primary hazard from these thunderstorms were microburst winds. However, very strong instability over the Rolling Plains did result in large hail. Furthermore, strong outflow winds well away from convective activity resulted in severe wind gusts.

High winds reports from the Texas Tech University West Texas mesonet:

64 mph at Graham (Garza County), 62 mph at Dimmitt (Castro County), 60 mph at Hart (Castro County), and 59 mph at Childress (Childress County).

CHILDRESS COUNTY --- 4.1 SE (CDS)CHILDRESS ARPT [34.38, -100.26]

06/19/16 01:18 CST	0	Hail (1.00 in)
06/19/16 01:18 CST	0	Source: Broadcast Media

A storm chaser for KFDA-TV in Amarillo reported quarter size hail southwest of Childress along US Highway 62.

A mesoscale convective vortex moving south out of western Oklahoma from previous night's convection aided in the initiation of additional thunderstorms on the evening of the 18th. This cluster of thunderstorm activity moved into the southeastern Texas Panhandle and briefly became severe near Childress (Childress County) during the early morning hours of the 19th.

SWISHER COUNTY --- 0.9 NW HAPPY [34.74, -101.86]

06/26/16 11:35 CST	0	Hail (1.75 in)
06/26/16 11:35 CST	0	Source: Public

The public estimated golf ball size hail in Happy. No reports of damage were available.

A string of nearly stationary thunderstorms developed before noon CST over the far southern Texas Panhandle, before dissipating within two hours. These pulse storms produced hail as large as golf ball size in Happy along with strong winds and heavy downpours.