

Storm Data and Unusual Weather Phenomena - July 2016

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

MOTLEY COUNTY --- 0.5 SSW NORTHFIELD [34.27, -100.60]

07/02/16 15:35 CST			0	Thunderstorm Wind (MG 62 kt)
07/02/16 15:35 CST			0	Source: Mesonet

Measured by a Texas Tech University West Texas mesonet station.

HALL COUNTY --- 1.0 S ESTELLINE [34.54, -100.43], 1.0 WNW NEWLIN [34.59, -100.45]

07/02/16 16:10 CST			15K	Thunderstorm Wind (EG 61 kt)
07/02/16 16:15 CST		1	0	Source: Public

A traveling downburst blew over two semis traveling on Highway 287. One semi was overturned one mile southeast of Estelline, and the other about five miles north of the city. One of the semi drivers was treated for minor cuts. This same downburst snapped a few utility poles about one mile west of Estelline along Highway 86.

BRISCOE COUNTY --- 2.8 NNW QUITAQUE [34.41, -101.06]

07/02/16 16:50 CST			0	Thunderstorm Wind (MG 58 kt)
07/02/16 16:50 CST			0	Source: Mesonet

Measured by a Texas Tech University West Texas mesonet station.

HALL COUNTY --- 3.2 WSW TURKEY [34.38, -100.93]

07/02/16 17:05 CST			0	Thunderstorm Wind (MG 53 kt)
07/02/16 17:05 CST			0	Source: Mesonet

Measured by a Texas Tech University West Texas mesonet station.

Scattered high-based thunderstorms developed late this afternoon from Caprock Canyons State Park south through the Rolling Plains and moved east at speeds up to 35 mph. This unseasonably fast forward motion along with strong evaporational cooling contributed to multiple downbursts in Hall, Motley and Briscoe Counties - some of which resulted in damage.

PARMER COUNTY --- 2.5 N FRIONA BENDER ARPK [34.69, -102.67], 0.6 W FRIONA BENDER ARPK [34.65, -102.69]

07/03/16 20:45 CST			0.35M	Thunderstorm Wind (EG 78 kt)
07/03/16 20:50 CST			0.20M	Source: Mesonet

A Texas Tech University West Texas mesonet measured two severe wind gusts during a downburst. The first gust of 77 mph occurred at 845 PM CST followed by a gust to 67 mph at 850 PM CST. About two miles northeast of this mesonet, a meteorologist with Texas Tech University discovered damage consistent with winds around 90 mph. This damage consisted of three completely destroyed center pivots, about one mile of heavily damaged or flattened sorghum crops, two collapsed grain silos, moderate damage to a barn, and light to moderate damage to several hundred acres of corn crops. The value assigned to these large center pivot irrigation systems is estimated at \$80,000 per unit.

Early this evening, a high-based supercell thunderstorm tracked nearly 140 miles from Harding County in New Mexico southeast to Castro County in Texas before dissipating southeast of Friona. This storm produced a series of intense downbursts with winds determined as high as 90 mph about four miles northeast of Friona. These winds damaged grain silos and a barn, destroyed center pivot irrigation units, and damaged nearly 1000 acres of corn and sorghum crops in the area. Combined losses were estimated in excess of \$500,000 USD.

MOTLEY COUNTY --- 0.7 S NORTHFIELD [34.27, -100.60]

07/05/16 02:55 CST			0	Thunderstorm Wind (MG 63 kt)
07/05/16 02:55 CST			0	Source: Mesonet

Measured by a Texas Tech University West Texas mesonet station located near Northfield.

A well developed shortwave trough triggered scattered thunderstorms early this morning from the South Plains into the Rolling Plains. One of these storms produced a downburst near Northfield in far northeast Motley County.

LUBBOCK COUNTY --- 4.2 S WOLFFORTH [33.44, -102.01], 1.9 WNW LUBBOCK [33.59, -101.88]

07/05/16 16:07 CST			25K	Hail (1.00 in)
07/05/16 16:29 CST			0	Source: NWS Employee

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A 13 mile hail swath up to quarter size traveled from south of Wolfforth to near downtown Lubbock . The hailstones were very hard and led to thousands of dollars worth of minor vehicle body damage in Lubbock. At times, this hail was driven sideways by strong southerly outflow winds measured up to 43 mph at the NWS office in Lubbock.

LAMB COUNTY --- 0.7 N SPADE [33.93, -102.15]

	07/05/16 17:10 CST	0	0	Hail (1.75 in)
	07/05/16 17:10 CST	0	0	Source: Public

Broadcast media relayed a photo of hail estimated to be the size of at least golf balls near Spade. No damage information was available. At one point, reliable multi-radar hail algorithms estimated that hail approached tennis ball size in southeast Lamb County.

Severe thunderstorms erupted late this afternoon over the southern South Plains just east of a dryline and outflow boundary. Surface dewpoints ranged from the 30s west of Highway 385 to the upper 60s and lower 70s in Lubbock. This rich moisture supported rapid pulse storm development in Lubbock and Lamb Counties which later produced severe hail ranging from quarters to golf ball size.

CASTRO COUNTY --- 1.7 E DIMMITT MUNI ARPT [34.57, -102.29]

	07/06/16 16:00 CST	0	0	Thunderstorm Wind (MG 54 kt)
	07/06/16 16:00 CST	0	0	Source: Mesonet

A dry microburst produced a 62 mph wind gust as measured by a Texas Tech University West Texas mesonet station.

LUBBOCK COUNTY --- 0.7 N (REE)REESE AFB LUBBO [33.61, -102.05], 0.4 SSW (LBB)LUBBOCK INTL AR [33.67, -101.82]

	07/06/16 16:00 CST	0	0	Thunderstorm Wind (MG 55 kt)
	07/06/16 16:07 CST	0	0	Source: ASOS

A downburst traveled from Reese Center to Lubbock Preston Smith Airport and produced measured wind gusts of 58 mph and 63 mph. The first gust was recorded by a Texas Tech University West Texas mesonet at Reese Center followed by a gust to 63 mph at the Lubbock ASOS.

LUBBOCK COUNTY --- 4.2 SSE DOUD [33.51, -101.91], 1.9 ESE DOUD [33.56, -101.90]

	07/06/16 17:00 CST	12K	0	Thunderstorm Wind (EG 56 kt)
	07/06/16 17:10 CST	0	0	Source: Emergency Manager

A downburst toppled a few power poles, trees and power lines throughout portions of southwest Lubbock.

HALL COUNTY --- 0.6 W MEMPHIS MUNI ARPT [34.73, -100.53]

	07/06/16 18:50 CST	0	0	Thunderstorm Wind (MG 63 kt)
	07/06/16 18:50 CST	0	0	Source: Mesonet

Measured by a Texas Tech University West Texas mesonet station.

CHILDRESS COUNTY --- 1.1 E (CDS)CHILDRESS ARPT [34.43, -100.28], 0.4 ENE CHILDRESS [34.42, -100.19]

	07/06/16 19:20 CST	0.75M	0	Thunderstorm Wind (MG 67 kt)
	07/06/16 19:40 CST	0	0	Source: Emergency Manager

A destructive downburst with peak winds around 80 mph traveled across the city of Childress causing extensive damage. The winds damaged several small structures, awnings, trees, utility poles, knocked down billboards and road signs, and even toppled two gas station pumps. One brick building had its southwest-facing wall collapse and hundreds of homes suffered light to moderate roof damage from the long duration of severe winds . These severe winds occurred for a period of up to 20 minutes as recorded by a nearby Texas Tech University West Texas mesonet station .

CHILDRESS COUNTY --- 2.8 N CHILDRESS [34.46, -100.20]

	07/06/16 19:20 CST	0	0	Thunderstorm Wind (MG 73 kt)
	07/06/16 19:40 CST	0	0	Source: Mesonet

Severe downburst winds were recorded for 20 consecutive minutes by a Texas Tech University West Texas mesonet station . A peak gust to 84 mph occurred at 1925 CST.

CHILDRESS COUNTY --- (CDS)CHILDRESS ARPT [34.43, -100.30]

	07/06/16 19:21 CST	0	0	Thunderstorm Wind (MG 66 kt)
	07/06/16 19:21 CST	0	0	Source: ASOS

Measured by the Childress ASOS.

MOTLEY COUNTY --- 0.7 S NORTHFIELD [34.27, -100.60]

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	07/06/16 19:25 CST		0	Thunderstorm Wind (MG 65 kt)
	07/06/16 19:25 CST		0	Source: Mesonet

Measured by a Texas Tech University West Texas mesonet station.

Another afternoon of scattered thunderstorms brought severe downburst winds mainly to Lubbock (Lubbock County) and Childress (Childress County). Very warm boundary layers supported high based storms and combined with strong instability, was able to create severe downburst winds. Extensive damage was observed in and around Childress.

MOTLEY COUNTY --- 4.0 NE FLOMOT [34.26, -100.93]

07/08/16 15:30 CST		12K	Thunderstorm Wind (EG 52 kt)
07/08/16 15:30 CST		0	Source: COOP Observer

A NWS cooperative weather observer reported several telephone poles downed by winds.

COTTLE COUNTY --- 10.0 SW PADUCAH [33.92, -100.42]

07/08/16 16:05 CST		0	Thunderstorm Wind (MG 66 kt)
07/08/16 16:15 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Paducah measured wind gusts up to 76 mph for ten minutes.

COTTLE COUNTY --- 3.6 W PADUCAH [34.02, -100.36]

07/08/16 16:34 CST		24K	Thunderstorm Wind (EG 52 kt)
07/08/16 16:34 CST		0	Source: Fire Department/Rescue

The Paducah Fire Department reported several power poles downed from strong winds west of Paducah.

KING COUNTY --- 2.8 SE FINNEY [33.75, -100.34]

07/08/16 16:51 CST		0	Hail (1.00 in)
07/08/16 16:51 CST		0	Source: Fire Department/Rescue

The Paducah Fire Department reported quarter size hail along US Highway 83 in King County. No damage was reported.

Scattered thunderstorms developed along and near a surface trough/dryline boundary. Significant amounts of instability allowed some of these storms to become severe over the Rolling Plains producing downburst winds and hail.

YOAKUM COUNTY --- 3.0 N PLAINS [33.22, -102.83]

07/10/16 18:15 CST		0	Thunderstorm Wind (MG 58 kt)
07/10/16 18:35 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Plains recorded wind gusts up to 67 mph for 20 minutes.

Scattered thunderstorms developed over the South Plains on the afternoon of the 10th atop a very mixed and hot boundary layer. One of these storms became severe as it produced severe wind gusts near Plains (Yoakum County) for 20 minutes.

MOTLEY COUNTY --- 7.3 W NORTHFIELD [34.28, -100.73], 11.7 W NORTHFIELD [34.31, -100.80]

07/13/16 18:15 CST		0	Hail (0.75 in)
07/13/16 18:20 CST		0.10M	Source: COOP Observer

A NWS cooperative weather observer reported a swath of wind blown hail that damaged a 12 mile long stretch of cotton in Motley and Hall Counties between Northfield and Turkey.

HALL COUNTY --- 3.7 SSE TURKEY [34.35, -100.87], 2.4 S TURKEY [34.37, -100.88]

07/13/16 18:20 CST		0	Hail (0.75 in)
07/13/16 18:23 CST		0.10M	Source: COOP Observer

A NWS cooperative weather observer reported a swath of wind blown hail that damaged a 12 mile long stretch of cotton in Motley and Hall Counties between Northfield and Turkey.

HALL COUNTY --- 2.0 WSW TURKEY [34.39, -100.91], TURKEY [34.40, -100.88]

07/13/16 18:24 CST		35K	Thunderstorm Wind (MG 52 kt)
07/13/16 18:30 CST		0	Source: Mesonet

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Law enforcement in Turkey reported several power lines downed by high winds as well as a portion of a roof blown off of a house . Several minutes later, the Texas Tech University West Texas mesonet station observed a wind gust to 60 mph.

(TX-Z031) MOTLEY

	07/13/16 18:30 CST		0	Wildfire
	07/14/16 19:30 CST		0	

High based thunderstorms were able to develop atop a deeply mixed and very hot boundary layer. Development of this activity was due to surface convergence along a weak surface trough that stretched from Denver City (Yoakum County) to Childress (Childress County). Higher instability over the extreme southeastern Texas Panhandle allowed for stronger storms in this area. One of these storms became severe southeast of Turkey causing severe wind gusts. Additionally, lightning started wildfires in Motley County burned approximately 3000 acres before being contained.

LUBBOCK COUNTY --- 2.1 SE LUBBOCK [33.56, -101.82]

	07/14/16 16:24 CST		0.20M	Thunderstorm Wind (EG 78 kt)
	07/14/16 16:24 CST		0	Source: Emergency Manager

Straight line winds caused extensive damage to a localized area near 36 th Street and Magnolia Avenue in Lubbock around 1624 CST. The strong winds flipped over a travel trailer at an auto yard and also peeled a roof off of a business . Additionally, a semi-truck trailer was flipped and several trees were snapped. Several power outages were also reported in the area.

LYNN COUNTY --- 7.0 SSW PETTY [33.18, -102.01]

	07/14/16 17:40 CST		60K	Thunderstorm Wind (EG 52 kt)
	07/14/16 17:40 CST		0	Source: Fire Department/Rescue

The Tahoka Fire Department reported 13 large transmission lines downed by strong winds near the intersection of Farm to Market Road 179 and US Highway 380.

COTTLE COUNTY --- 10.0 SW PADUCAH [33.92, -100.42]

	07/14/16 18:45 CST		0	Thunderstorm Wind (MG 63 kt)
	07/14/16 18:45 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Paducah measured a wind gust to 72 mph.

DICKENS COUNTY --- 1.0 W SPUR [33.48, -100.87]

	07/14/16 18:45 CST		0	Thunderstorm Wind (MG 56 kt)
	07/14/16 18:45 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Spur measured a wind gust to 65 mph.

KING COUNTY --- 10.0 WSW GUTHRIE [33.56, -100.49]

	07/14/16 19:00 CST		0	Thunderstorm Wind (MG 66 kt)
	07/14/16 19:00 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Guthrie measured a wind gust to 76 mph.

Scattered thunderstorms developed once again on the afternoon and evening of the 14th along a weak surface boundary. This thunderstorm activity brought strong straight line winds especially in the city of Lubbock (Lubbock County) where winds were estimated near 90 mph. Once storms moved off of the Caprock, a weak line formed bringing additional strong wind gusts up to 76 mph.

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Picture of a travel trailer flipped over due to high winds near 36th Street and Magnolia Avenue in the city of Lubbock. Photo courtesy KCBD-TV.

SWISHER COUNTY --- 2.0 ENE TULIA [34.54, -101.74]

07/15/16 20:45 CST	0		Thunderstorm Wind (MG 56 kt)
07/15/16 20:45 CST	0		Source: Mesonet

A Texas Tech University West Texas mesonet site near Tulia measured a wind gust to 65 mph.

HALL COUNTY --- 0.5 NNW ESTELLINE [34.56, -100.43]

07/15/16 21:10 CST	20K		Thunderstorm Wind (EG 52 kt)
07/15/16 21:10 CST	0		Source: CoCoRaHS

A NWS cooperative weather observer reported that a roof was removed from a barn due to high winds.

CHILDRESS COUNTY --- (CDS)CHILDRESS ARPT [34.43, -100.30]

07/15/16 21:50 CST	0		Thunderstorm Wind (MG 56 kt)
07/15/16 21:57 CST	0		Source: ASOS

The Automated Surface Observing System at Childress Municipal Airport measured severe wind gusts up to 64 mph for seven minutes.

MOTLEY COUNTY --- 1.0 S NORTHFIELD [34.27, -100.60]

07/15/16 22:05 CST	0		Thunderstorm Wind (MG 56 kt)
07/15/16 22:05 CST	0		Source: Mesonet

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A Texas Tech University West Texas mesonet site near Northfield measured a wind gust to 64 mph.

An area of convection developed within a surface trough from the western Texas Panhandle into eastern New Mexico. This activity moved southeast through the evening eventually affecting the south-central and southeastern Texas Panhandle as a low level jet formed. This cluster of thunderstorms produced high winds along its path. The hardest hit area was in and around Childress (Childress County) where a roof was removed from a barn.

PARMER COUNTY --- 0.6 W FRIONA BENDER ARPK [34.65, -102.69]

07/29/16 21:45 CST

0

Thunderstorm Wind (MG 51 kt)

07/29/16 21:45 CST

0

Source: Mesonet

Measured by a Texas Tech University West Texas mesonet station located two miles northeast of Friona.

A broken line of thunderstorms crawled south across Parmer County late this night accompanied by one severe wind gust near Friona and locally heavy rain up to 1.21 inches.