

Storm Data and Unusual Weather Phenomena - June 2018

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

(TX-Z021) PARMER, (TX-Z022) CASTRO, (TX-Z023) SWISHER, (TX-Z024) BRISCOE, (TX-Z025) HALL, (TX-Z026) CHILDRESS, (TX-Z027) BAILEY, (TX-Z028) LAMB, (TX-Z029) HALE, (TX-Z030) FLOYD, (TX-Z031) MOTLEY, (TX-Z032) COTTLE, (TX-Z033) COCHRAN, (TX-Z034) HOCKLEY, (TX-Z035) LUBBOCK, (TX-Z036) CROSBY, (TX-Z037) DICKENS, (TX-Z038) KING, (TX-Z039) YOAKUM, (TX-Z040) TERRY, (TX-Z041) LYNN, (TX-Z042) GARZA, (TX-Z043) KENT, (TX-Z044) STONEWALL

06/01/18 00:00 CST	0	Drought
06/30/18 23:59 CST	0	

Drought levels remained at D2 (Severe) drought conditions or greater for most of the region. However, there was some spotty improvement over the Rolling Plains. Portions of Kent, Stonewall, Dickens, and Crosby Counties dropped into D0 (Abnormally Dry) to D1 (Moderate) drought conditions. June was typically hotter and drier compared to normal for most areas on the Caprock with the fifth hottest June on record for Lubbock. Childress recorded its 14th hottest June. This was mostly due to a typical summertime pattern developing in early June when it typically does not occur until late June. Upper level high pressure was located just to the south of the region for most of the month. Occasional upper level disturbances to the north of the region brought scattered shower activity on the Caprock and more seasonal rain across the Rolling Plains.

CROSBY COUNTY --- 0.7 WNW RALLS [33.68, -101.39], 1.4 SSW RALLS [33.66, -101.39]

06/01/18 16:43 CST	3.50M	Thunderstorm Wind (EG 78 kt)
06/01/18 16:45 CST	0	Source: NWS Storm Survey

A rapidly intensifying thunderstorm produced an intense downburst that struck the west half of the city of Ralls before continuing south for about one mile south of Ralls. In addition to disrupting power to 2400 people in the area for much of the night and inflicting various degrees of damage to many homes and buildings, three large cotton compress buildings on the west side of town were completely destroyed with debris strewn up to 1/4 mile south of Highway 82. The extent of debris required the closure of the 4-lane highway for nearly one hour until debris could be cleared for passage. A nearby power sub-station belonging to Excel was heavily damaged and a total of 42 power poles were downed. Radar and debris patterns observed from the NWS storm survey revealed a classic downburst signature with destructive wind gusts determined to be as high as 90 mph, with sustained speeds likely ranging between 50 and 70 mph for roughly two minutes.

CROSBY COUNTY --- 0.7 S RALLS [33.67, -101.38]

06/01/18 16:45 CST	0	Thunderstorm Wind (MG 60 kt)
06/01/18 16:45 CST	0	Source: Mesonet

Measured by a Texas Tech University West Texas mesonet.

CROSBY COUNTY --- 0.7 WNW RALLS [33.68, -101.39], 0.7 SSW RALLS [33.67, -101.39]

06/01/18 16:46 CST	0.50M	Hail (2.75 in)
06/01/18 16:53 CST	0	Source: Public

Very large hail up to baseball size driven sideways by intense winds caused extensive damage to many north-facing windows, cars and home siding in Ralls. The hail also caused severe damage to the Texas Tech University West Texas mesonet on the south side of Ralls.

CROSBY COUNTY --- 0.7 S RALLS [33.67, -101.38]

06/01/18 16:55 CST	0	Thunderstorm Wind (MG 50 kt)
06/01/18 16:55 CST	0	Source: Mesonet

Measured by a Texas Tech University West Texas mesonet.

CROSBY COUNTY --- 1.3 WSW CROSBYTON PAULDER AR [33.64, -101.24]

06/01/18 17:14 CST	0.10M	Hail (1.75 in)
06/01/18 17:18 CST	0	Source: COOP Observer

The hail covered the ground and damaged many west-facing windows in town. Many vehicles also sustained light to moderate damage. Although less destructive than the onslaught of baseball size hail in the city just 2.5 weeks earlier, this hail was insult to injury for many property and business owners.

CROSBY COUNTY --- CROSBYTON [33.67, -101.25]

06/01/18 17:14 CST	25K	Thunderstorm Wind (EG 61 kt)
06/01/18 17:15 CST	0	Source: Broadcast Media

A total of 12 power poles were damaged in Crosbyton.

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CROSBY COUNTY --- 7.1 SSE CROSBYTON MUNI ARPT [33.53, -101.17]				
	06/01/18 17:30 CST		0	Thunderstorm Wind (MG 59 kt)
	06/01/18 17:30 CST		0	Source: Mesonet

Measured by a Texas Tech University West Texas mesonet.

DICKENS COUNTY --- SPUR [33.48, -100.85]				
	06/01/18 18:03 CST		0.50M	Hail (2.75 in)
	06/01/18 18:03 CST		0	Source: Law Enforcement

Very large hail to baseball size pummeled the city of Spur this evening . The hail lasted for for several minutes and caused widespread damage to buildings, roofs, windows and vehicles.

KENT COUNTY --- 8.9 NW CLAIREMONT [33.26, -100.86]				
	06/01/18 19:14 CST		0	Hail (1.75 in)
	06/01/18 19:14 CST		0	Source: COOP Observer

No damage was reported.

KENT COUNTY --- 7.1 SSE JAYTON KENT CO ARPT [33.13, -100.54]				
	06/01/18 19:43 CST		0	Tornado (EFU, L: 0.01 mi , W: 30 yd)
	06/01/18 19:43 CST		0	Source: Trained Spotter

Two separate reports of a very brief tornado were received about five miles south of Jayton . A storm spotter was able to photograph the tornado in the fading twilight. The tornado remained over open land.

STONEWALL COUNTY --- 5.1 WNW PEACOCK [33.21, -100.48]				
	06/01/18 20:00 CST		0	Hail (1.50 in)
	06/01/18 20:00 CST		0	Source: Storm Chaser

Damage was not known.

Very hot temperatures characterized by highs of 102 to 107 degrees coupled with a dryline focused high based thunderstorm development near the Lubbock area this afternoon. As these storms moved east into richer moisture in Crosby County, one storm escalated significantly in intensity. This supercell thunderstorm delivered major wind and hail damage to Ralls and continued to move east through Crosbyton where several utility poles were downed. The storm then turned more southeast and struck Spur with very large hail before producing a small, brief tornado over open land south of Jayton. The greatest destruction occurred on the west side of Ralls where three large cotton compress buildings were completely destroyed by straight line winds determined to be as high as 90 mph.

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A very brief tornado was spotted over open land south of Jayton, TX. Photo courtesy of Terry Webb.

LYNN COUNTY --- 1.5 E NEW MOORE [33.02, -102.00]

	06/03/18 22:48 CST	9K	Thunderstorm Wind (EG 61 kt)
	06/03/18 22:48 CST	0	Source: Fire Department/Rescue

Three power poles were downed along Farm to Market Road 213.

A cluster of thunderstorms with a large swath of high winds moved northeast from northern Dawson County into far southwest Lynn County before decaying a short while later.

HALE COUNTY --- 8.7 SE SETH WARD [34.13, -101.57]

	06/05/18 18:18 CST	0	Thunderstorm Wind (MG 51 kt)
	06/05/18 18:18 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Aiken measured a wind gust to 59 mph.

FLOYD COUNTY --- 7.0 SW FLOYDADA [33.91, -101.42]

	06/05/18 18:53 CST	0	Thunderstorm Wind (EG 52 kt)
	06/05/18 18:53 CST	0	Source: Public

Strong outflow winds from a thunderstorm destroyed a few outbuildings.

HALL COUNTY --- 3.0 NE ELI [34.71, -100.58]

	06/05/18 18:56 CST	0	Hail (1.00 in)
	06/05/18 18:56 CST	0	Source: Broadcast Media

A storm chaser from KVII-TV in Amarillo measured mostly nickel size hail about 3 miles southwest of Memphis along Texas State Highway 256 but also observed a few hail stones up to quarter size.

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Very hot temperatures on the afternoon of the fifth combined with sufficient low level moisture which allowed isolated thunderstorms to develop across the extreme southeastern Texas Panhandle into the central South Plains. A few of these storms became severe. One near Memphis (Hall County) produced quarter size hail while another storm produced a wind gust to 59 mph near Aiken in Hale County. A third severe thunderstorm produced wind damage in rural Floyd County.

CHILDRESS COUNTY --- 3.0 S TELL [34.33, -100.38]

06/07/18 14:14 CST	0	Hail (1.50 in)
06/07/18 14:14 CST	0	Source: Trained Spotter

An NWS cooperative weather observer reported hail covering the ground between quarter size to ping pong ball size. No damage was reported.

BAILEY COUNTY --- 2.0 SSW MULESHOE [34.19, -102.74]

06/07/18 14:15 CST	0	Dust Devil
06/07/18 14:15 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Muleshoe recorded a wind gust to 63 mph. However, an NWS cooperative weather observer viewed a dust devil moving across the mesonet location at the same time.

HALL COUNTY --- 2.0 S LESLEY [34.64, -100.80]

06/07/18 14:53 CST	0	Thunderstorm Wind (MG 73 kt)
06/07/18 14:53 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Lesley measured a wind gust to 84 mph.

CHILDRESS COUNTY --- 3.0 S TELL [34.33, -100.38], 6.3 ESE TELL [34.33, -100.28], 5.0 S (CDS)CHILDRESS ARPT [34.36, -100.28], 0.1 SSE TELL [34.37, -100.38]

06/07/18 14:58 CST	0	Flash Flood (due to Heavy Rain)
06/07/18 16:58 CST	0	Source: COOP Observer

An NWS cooperative weather observer reported extensive flooding on his property with water threatening to enter his residence. The cooperative weather observer recorded 4.48 inches of rainfall with radar estimates between four and five inches. Radar rainfall estimates were between five and six inches only a few miles east of the observer's location.

COTTLE COUNTY --- 1.5 NNE DUNLAP [34.15, -100.29], 3.5 N DUNLAP [34.18, -100.29]

06/07/18 15:21 CST	0	Hail (1.75 in)
06/07/18 15:23 CST	0	Source: Fire Department/Rescue

The Paducah Fire Department reported hail between the size of quarters and golf balls along US Highway 83 north of Paducah.

CHILDRESS COUNTY --- 13.1 W LOCO [34.73, -100.38]

06/07/18 15:36 CST	0	Funnel Cloud
06/07/18 15:36 CST	0	Source: Law Enforcement

The Hall County Sheriff's Office reported a funnel cloud nearly reaching the ground east of Memphis in Childress County . The location was near Texas Highway 256 and County Road 2 in Childress County.

CHILDRESS COUNTY --- 0.8 E KIRKLAND [34.38, -100.06]

06/07/18 16:20 CST	0	Thunderstorm Wind (EG 61 kt)
06/07/18 16:20 CST	0	Source: Law Enforcement

The Childress County Sheriff's Office reported that a tractor trailer was blown over on US Highway 287 at Farm to Market Road 1033.

During the morning of the seventh, a mesoscale convective system moving across Oklahoma reinforced pre-existing outflow boundaries in the Rolling Plains and eastern South Plains. A weak short wave moving over the top of an upper level ridge combined with a very unstable airmass over the Rolling Plains creating scattered severe thunderstorms. Strong downdraft CAPE values led to very strong reported wind gusts as well as large hail to the size of golf balls. Strong winds blew over a tractor trailer near Kirkland (Childress County) along US Highway 287. In addition, repeated rounds of slow moving thunderstorms dropped several inches of rain on far southwestern Childress County. An NWS cooperative weather observer reported 4.48 inches of rainfall while radar rainfall estimates were between five and six inches just a few miles east of the observer's location.

PARMER COUNTY --- 2.0 NE FRIONA [34.65, -102.71]

06/08/18 22:20 CST	0	Thunderstorm Wind (MG 53 kt)
06/08/18 22:20 CST	0	Source: Mesonet

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A Texas Tech University West Texas mesonet site near Friona measured a wind gust to 61 mph.				
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CASTRO COUNTY --- 2.0 NE DIMMITT [34.57, -102.30]				
	06/09/18 00:55 CST	0		Thunderstorm Wind (MG 57 kt)
	06/09/18 00:55 CST	0		Source: Mesonet
A Texas Tech University West Texas mesonet site near Dimmitt measured a wind gust to 66 mph.				
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SWISHER COUNTY --- 1.0 NE HAPPY [34.74, -101.84]				
	06/09/18 02:32 CST	0		Thunderstorm Wind (MG 56 kt)
	06/09/18 02:32 CST	0		Source: Mesonet
A Texas Tech University West Texas mesonet site near Happy measured a wind gust to 64 mph.				
A complex of decaying thunderstorms moving out of eastern New Mexico led to several severe wind gusts in the extreme southwestern Texas Panhandle from late in the evening on the eighth to early in the morning on the ninth.				
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CROSBY COUNTY --- 7.1 SSE CROSBYTON MUNI ARPT [33.53, -101.17]				
	06/10/18 16:45 CST	0		Thunderstorm Wind (MG 62 kt)
	06/10/18 16:45 CST	0		Source: Mesonet
Measured by a Texas Tech University West Texas mesonet.				
Numerous slow moving thunderstorms moved from the South Plains into the Rolling Plains this Sunday afternoon. In addition to heavy rain and minor flooding, one of these storms produced a severe wind gust near White River Lake in Crosby County.				
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CHILDRESS COUNTY --- (CDS)CHILDRESS ARPT [34.43, -100.30]				
	06/13/18 01:40 CST	0		Thunderstorm Wind (MG 50 kt)
	06/13/18 01:40 CST	0		Source: ASOS
The ASOS at Childress Municipal Airport reported a wind gust to 58 mph.				
Late on the 12th into the early morning hours of the 13th, a Mesoscale Convective System moved southeast out of the central Texas Panhandle. Although most storms in the complex were not severe, one severe wind gust to 58 mph was reported at the Childress Municipal Airport by the ASOS.				
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HOCKLEY COUNTY --- 4.0 S LEVELLAND [33.52, -102.37]				
	06/16/18 15:05 CST	0		Thunderstorm Wind (MG 57 kt)
	06/16/18 15:10 CST	0		Source: Mesonet
A Texas Tech University West Texas mesonet site near Levelland measured a wind gust to 66 mph.				
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LAMB COUNTY --- 9.0 WSW EARTH [34.18, -102.55]				
	06/16/18 15:57 CST	0		Thunderstorm Wind (MG 60 kt)
	06/16/18 15:57 CST	0		Source: Mesonet
A Texas Tech University West Texas mesonet site near Earth measured a wind gust to 69 mph.				
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HOCKLEY COUNTY --- 4.0 S LEVELLAND [33.52, -102.37], LEVELLAND [33.58, -102.37]				
	06/16/18 17:05 CST	0		Thunderstorm Wind (MG 50 kt)
	06/16/18 17:19 CST	0		Source: Mesonet
At 1705 CST, a Texas Tech University West Texas mesonet site four miles south of Levelland measured a wind gust to 58 mph. About 14 minutes later, the Hockley County Sheriff's department reported several instances of wind damage in town, including downed power lines and two metal roofs ripped off structures.				
Deep tropical moisture streaming overhead from remnants of eastern Pacific tropical system Bud fueled isolated to scattered thunderstorms from eastern New Mexico into the South Plains on the afternoon of the 16th. Very warm near surface temperatures allowed a few of these thunderstorms to produce severe wind gusts. One such storm produced damage in the city of Levelland (Hockley County) which downed power lines and ripped metal roofs off two structures.				
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GARZA COUNTY --- 5.4 SSW GRAHAM CHAPEL [33.08, -101.52]				

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	06/18/18 16:00 CST		0	Thunderstorm Wind (MG 51 kt)
	06/18/18 16:00 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Graham measured a wind gust to 59 mph.

Tropical moisture associated with the remnants of eastern Pacific tropical system Bud moved over top of the region of the 18th. Hot surface temperatures in the Rolling Plains allowed instability to build to create isolated to widely scattered thunderstorms. One of these thunderstorms became severe as it moved near Graham producing a wind gust to 59 mph.

CHILDRESS COUNTY --- 0.9 E (CDS)CHILDRESS ARPT [34.43, -100.28]				
	06/20/18 05:51 CST		0	Thunderstorm Wind (MG 53 kt)
	06/20/18 05:51 CST		0	Source: ASOS

Strong outflow winds became severe at the Childress Municipal Airport recording a wind gust to 61 mph.

A mesoscale convective system (MCS) tracked across the Texas Panhandle during the early morning hours of the 20th. This MCS produced a strong outflow boundary on the south end of the system which was able to create a severe wind gust to 61 mph at the Childress Municipal Airport ASOS.

PARMER COUNTY --- 2.0 NE FRIONA [34.65, -102.71]				
	06/22/18 18:20 CST		0	Thunderstorm Wind (MG 56 kt)
	06/22/18 18:20 CST		0	Source: Mesonet

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

PARMER COUNTY --- 8.0 W LAZBUDDIE [34.38, -102.76]				
	06/22/18 19:18 CST		0	Hail (1.00 in)
	06/22/18 19:18 CST		0	Source: Public

A report from the public indicated hail to the size of quarters eight miles west of Lazbuddie.

A mesoscale convective system (MCS) developed over the Texas Panhandle and moved east during the late afternoon and evening hours of the 22nd. However, a very hot and deeply mixed atmosphere had developed from east-central New Mexico into the extreme southwestern Texas Panhandle creating an unstable atmosphere. Isolated thunderstorms developed initially in eastern New Mexico before moving into the extreme southwestern Panhandle. A couple of these storms became severe while in Parmer County producing severe winds and quarter size hail.

(TX-Z022) CASTRO, (TX-Z023) SWISHER, (TX-Z025) HALL, (TX-Z026) CHILDRESS				
	06/24/18 23:20 CST		0	High Wind (MAX 69 kt)
	06/25/18 00:53 CST		0	

HALL COUNTY --- 1.0 NE MEMPHIS [34.73, -100.52]				
	06/25/18 00:20 CST		0	Thunderstorm Wind (MG 50 kt)
	06/25/18 00:20 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Memphis measured a wind gust to 58 mph associated with nearby thunderstorms.

On the evening of the 24th, a mesoscale convective system tracked eastward across the Texas Panhandle. This complex of thunderstorms generated a strong outflow boundary that created severe wind gusts in the south-central and southeastern Texas Panhandle. Many of these wind gusts associated with the outflow boundary were well ahead of the thunderstorm complex. Scattered thunderstorms had developed along the outflow boundary in Hall County near Memphis which developed a severe thunderstorm wind gust.

Wind gust reports are from the Texas Tech University West Texas mesonet and Childress ASOS:

79 mph at Dimmitt (Castro County), 67 mph at Happy (Swisher County), 66 mph at Lesley (Hall County), 66 mph at Childress (Childress County), 58 mph at Estelline (Hall County), and 58 mph at Turkey (Hall County).

GARZA COUNTY --- 5.3 ENE JUSTICEBURG [33.05, -101.11]				
	06/29/18 20:37 CST		0	Thunderstorm Wind (MG 64 kt)
	06/29/18 20:37 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Lake Alan Henry measured a wind gust to 74 mph.

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CROSBY COUNTY --- 7.2 SSE CROSBYTON MUNI ARPT [33.53, -101.17]				
	06/29/18 20:55 CST		0	Thunderstorm Wind (MG 55 kt)
	06/29/18 20:55 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site approximately six miles northwest of White River Lake measured a wind gust to 63 mph.

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CHILDRESS COUNTY --- (CDS)CHILDRESS ARPT [34.43, -100.30]				
	06/29/18 22:22 CST		0	Thunderstorm Wind (MG 50 kt)
	06/29/18 22:22 CST		0	Source: ASOS

The ASOS at Childress Municipal Airport measured a wind gust to 58 mph.

Late in the afternoon on the 29th, scattered thunderstorms developed across eastern New Mexico and moved into West Texas. Strong instability allowed several of these storms to become severe with strong wind gusts spanning from Lake Alan Henry (Garza County) and White River Lake (Crosby County) to Childress (Childress County).