

Storm Data and Unusual Weather Phenomena - March 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
TEXAS, South Panhandle				
PARMER COUNTY --- 0.6 W FRIONA BENDER ARPK [34.65, -102.69]				
	03/09/19 00:55 CST	0		Thunderstorm Wind (MG 52 kt)
	03/09/19 00:55 CST	0		Source: Mesonet
Measured by a Texas Tech University West Texas mesonet.				
BAILEY COUNTY --- 0.9 SW MULESHOE [34.21, -102.74], 2.9 S MULESHOE WARREN ARPT [34.19, -102.69]				
	03/09/19 01:10 CST	0		Thunderstorm Wind (MG 58 kt)
	03/09/19 01:10 CST	0		Source: Mesonet
Measured by a Texas Tech University West Texas mesonet.				
LAMB COUNTY --- 8.5 NNW SUDAN [34.19, -102.56], 6.9 N SUDAN [34.17, -102.51]				
	03/09/19 01:20 CST	0		Thunderstorm Wind (MG 53 kt)
	03/09/19 01:20 CST	0		Source: Mesonet
Measured by a Texas Tech University West Texas mesonet.				
CASTRO COUNTY --- 2.8 NNE HART [34.42, -102.11]				
	03/09/19 01:40 CST	0		Thunderstorm Wind (MG 51 kt)
	03/09/19 01:40 CST	0		Source: Mesonet
Measured by a Texas Tech University West Texas mesonet.				
LAMB COUNTY --- 4.5 NNE HART CAMP [34.09, -102.12], 9.2 E HART CAMP [34.05, -101.99]				
	03/09/19 01:50 CST	0		Thunderstorm Wind (MG 50 kt)
	03/09/19 01:50 CST	0		Source: Mesonet
Measured by a Texas Tech University West Texas mesonet.				
SWISHER COUNTY --- 1.8 ENE TULIA [34.54, -101.74]				
	03/09/19 01:55 CST	0		Thunderstorm Wind (MG 57 kt)
	03/09/19 01:55 CST	0		Source: Mesonet
Measured by a Texas Tech University West Texas mesonet.				
SWISHER COUNTY --- 1.1 W VIGO PARK [34.65, -101.50], 3.7 ESE VIGO PARK [34.63, -101.42]				
	03/09/19 02:04 CST	0		Thunderstorm Wind (MG 56 kt)
	03/09/19 02:04 CST	0		Source: Mesonet
Measured by a Texas Tech University West Texas mesonet.				
HALE COUNTY --- 0.9 NE (PVW)HALE CO ARPT [34.18, -101.71], 0.9 NE (PVW)HALE CO ARPT [34.18, -101.71]				
	03/09/19 02:10 CST	0		Thunderstorm Wind (MG 54 kt)
	03/09/19 02:10 CST	0		Source: Mesonet
Measured by a Texas Tech University West Texas mesonet.				
HOCKLEY COUNTY --- 1.5 SSE LEVELLAND MUNI ARPT [33.53, -102.36]				
	03/09/19 02:10 CST	0		Thunderstorm Wind (MG 56 kt)
	03/09/19 02:10 CST	0		Source: Mesonet
Measured by a Texas Tech University West Texas mesonet.				
HALE COUNTY --- 0.7 S (PVW)HALE CO ARPT [34.16, -101.72], 0.9 SE (PVW)HALE CO ARPT [34.16, -101.71]				
	03/09/19 02:15 CST	0		Thunderstorm Wind (MG 54 kt)
	03/09/19 02:15 CST	0		Source: AWOS
Measured by the Plainview AWOS.				

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HOCKLEY COUNTY --- 5.9 WSW ROUNDUP [33.73, -102.19], 3.7 SW ROUNDUP [33.73, -102.14]				
	03/09/19 02:15 CST	0		Thunderstorm Wind (MG 56 kt)
	03/09/19 02:15 CST	0		Source: Mesonet
Measured by a Texas Tech University West Texas mesonet.				
BRISCOE COUNTY --- 6.4 ESE SILVERTON [34.45, -101.19]				
	03/09/19 02:25 CST	0		Thunderstorm Wind (MG 53 kt)
	03/09/19 02:25 CST	0		Source: Mesonet
Measured by a Texas Tech University West Texas mesonet.				
FLOYD COUNTY --- 3.7 ENE SOUTH PLAINS [34.24, -101.26], 8.6 ENE SOUTH PLAINS [34.27, -101.18]				
	03/09/19 02:29 CST	0		Thunderstorm Wind (MG 52 kt)
	03/09/19 02:29 CST	0		Source: Mesonet
Measured by a Texas Tech University West Texas mesonet.				
BRISCOE COUNTY --- 6.4 ESE SILVERTON [34.45, -101.19]				
	03/09/19 02:30 CST	0		Thunderstorm Wind (MG 51 kt)
	03/09/19 02:30 CST	0		Source: Mesonet
Measured by a Texas Tech University West Texas mesonet.				
HALE COUNTY --- 2.1 NNE ABERNATHY MUNI ARPT [33.88, -101.76]				
	03/09/19 02:30 CST	0		Thunderstorm Wind (MG 54 kt)
	03/09/19 02:30 CST	0		Source: Mesonet
Measured by a Texas Tech University West Texas mesonet.				
LUBBOCK COUNTY --- (LBB)LUBBOCK INTL AR [33.67, -101.82]				
	03/09/19 02:33 CST	0		Thunderstorm Wind (MG 51 kt)
	03/09/19 02:33 CST	0		Source: ASOS
Measured at Lubbock airport.				
BRISCOE COUNTY --- 2.8 NNW QUITAQUE [34.41, -101.06]				
	03/09/19 02:35 CST	0		Thunderstorm Wind (MG 55 kt)
	03/09/19 02:35 CST	0		Source: Mesonet
Measured by a Texas Tech University West Texas mesonet.				
TERRY COUNTY --- 2.1 SSE BROWNFIELD [33.15, -102.27]				
	03/09/19 02:35 CST	0		Thunderstorm Wind (MG 51 kt)
	03/09/19 02:35 CST	0		Source: Mesonet
Measured by a Texas Tech University West Texas mesonet.				
LUBBOCK COUNTY --- 5.8 SSW WOLFFORTH [33.42, -102.05]				
	03/09/19 02:40 CST	0		Thunderstorm Wind (MG 50 kt)
	03/09/19 02:40 CST	0		Source: Mesonet
Measured by a Texas Tech University West Texas mesonet.				
HALL COUNTY --- 1.5 SSW LESLEY [34.65, -100.81]				
	03/09/19 02:41 CST	0		Thunderstorm Wind (MG 57 kt)
	03/09/19 02:45 CST	0		Source: Mesonet
Gusts of 60 to 66 mph for four minutes. Measured by a Texas Tech University West Texas mesonet.				
HALL COUNTY --- 3.2 WSW TURKEY [34.38, -100.93]				

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	03/09/19 02:45 CST		0	Thunderstorm Wind (MG 70 kt)
	03/09/19 02:45 CST		0	Source: Mesonet

A sustained wind speed of 53 mph preceded this gust to 80 mph. Measured by a Texas Tech University West Texas mesonet.

MOTLEY COUNTY --- 0.7 S NORTHFIELD [34.27, -100.60]				
	03/09/19 03:05 CST		0	Thunderstorm Wind (MG 52 kt)
	03/09/19 03:05 CST		0	Source: Mesonet

Measured by a Texas Tech University West Texas mesonet.

CHILDRESS COUNTY --- 1.1 E (CDS)CHILDRESS ARPT [34.43, -100.28]				
	03/09/19 03:16 CST		0	Thunderstorm Wind (MG 62 kt)
	03/09/19 03:16 CST		0	Source: ASOS

Measured by the Childress ASOS.

CHILDRESS COUNTY --- 2.8 N CHILDRESS [34.46, -100.20]				
	03/09/19 03:20 CST		0	Thunderstorm Wind (MG 52 kt)
	03/09/19 03:20 CST		0	Source: Mesonet

Measured by a Texas Tech University West Texas mesonet.

CROSBY COUNTY --- 7.1 SSE CROSBYTON MUNI ARPT [33.53, -101.17]				
	03/09/19 03:20 CST		0	Thunderstorm Wind (MG 51 kt)
	03/09/19 03:20 CST		0	Source: Mesonet

Measured by a Texas Tech University West Texas mesonet.

CROSBY COUNTY --- 7.1 SSE CROSBYTON MUNI ARPT [33.53, -101.17]				
	03/09/19 03:25 CST		0	Thunderstorm Wind (MG 58 kt)
	03/09/19 03:25 CST		0	Source: Mesonet

Measured by a Texas Tech University West Texas mesonet.

COTTLE COUNTY --- 2.4 SSE HACKBERRY [33.90, -100.13]				
	03/09/19 03:44 CST		0	Thunderstorm Wind (MG 52 kt)
	03/09/19 03:44 CST		0	Source: Mesonet

Measured by a Texas Tech University West Texas mesonet.

Shortly before 1 AM CST, a narrow line of showers and thunderstorms raced out of east-central New Mexico along a Pacific cold front. Although instability was very weak (less than 500 J/kg of CAPE), strong lift along the front sustained these storms for several hours and allowed them to develop southward while sweeping across most of the South Plains, southern Texas Panhandle and portions of the Rolling Plains. A layer of high winds around 70 mph at 5000 feet was carried to the surface with ease in this convection and resulted in dozens of downbursts with one wind gust measured as high as 80 mph. Damage reports were not available at the time of this entry.

HOCKLEY COUNTY --- 1.6 SSE ANTON [33.80, -102.15], 1.5 ENE ANTON [33.82, -102.15]				
	03/12/19 21:35 CST		0.50M	Tornado (EF1, L: 1.75 mi , W: 125 yd)
	03/12/19 21:37 CST		0	Source: NWS Storm Survey

A fast-moving tornado developed within a line of thunderstorms and moved north-northeast at 40 to 45 mph. Based on the NWS storm survey and radar data, the total track was determined to be 3.4 miles from extreme northeast Hockley County into far southeast Lamb County (the tornado's length in Hockley County was about 1.8 miles). This tornado caused EF1 damage to a well-built home located about one mile east-southeast of Anton and destroyed a large sheet metal building on the same property. In addition to downing large tree limbs, six power poles were snapped and two large center pivots were heavily damaged. Data from the Lubbock WSR-88D radar confirmed a tornadic debris signature that extended to just over 5000 feet at times. The owner of the house was inside at the time the tornado struck and was not injured, but moments before she had walked outside to see why her satellite TV signal deteriorated. The tornado caused sufficient damage to deem the house a complete loss by her insurance company. Preliminary damage estimates for all structures, personal property, utility poles, and the large center pivots were approximately \$500,000.

LAMB COUNTY --- 6.2 SE BAINER [33.82, -102.15], 5.1 S SPADE [33.85, -102.14]				
	03/12/19 21:37 CST		0	Tornado (EFU, L: 1.66 mi , W: 125 yd)
	03/12/19 21:40 CST		0	Source: NWS Storm Survey

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
This is the continuation path of the tornado that began in Hockley County. No damage indicators were available along this segment of the tornado's path, hence the EFU rating. The path was approximated using NWS radar data.				

LAMB COUNTY --- 1.1 E AMHERST [34.02, -102.40]

03/12/19 21:50 CST	0	Thunderstorm Wind (MG 50 kt)
03/12/19 21:50 CST	0	Source: Mesonet

Measured by a Texas Tech University West Texas mesonet.

LYNN COUNTY --- 0.7 N O'DONNELL [32.98, -101.83]

03/12/19 21:55 CST	0	Thunderstorm Wind (MG 63 kt)
03/12/19 21:55 CST	0	Source: Mesonet

Measured by a Texas Tech University West Texas mesonet.

LYNN COUNTY --- O'DONNELL [32.97, -101.83]

03/12/19 21:55 CST	50K	Thunderstorm Wind (EG 70 kt)
03/12/19 21:55 CST	1	Source: Law Enforcement

A downburst heavily damaged two warehouses, snapped utility poles, and blew over a semi on Highway 87 near O'Donnell. The driver of the semi suffered a laceration to his arm, but refused admittance to a hospital.

LYNN COUNTY --- 0.7 N O'DONNELL [32.98, -101.83]

03/12/19 22:00 CST	0	Thunderstorm Wind (MG 62 kt)
03/12/19 22:00 CST	0	Source: Mesonet

Measured by a Texas Tech University West Texas mesonet.

GARZA COUNTY --- 5.6 SSW GRAHAM CHAPEL [33.08, -101.52]

03/12/19 22:15 CST	0	Thunderstorm Wind (MG 50 kt)
03/12/19 22:15 CST	0	Source: Mesonet

Measured by a Texas Tech University West Texas mesonet.

CASTRO COUNTY --- 0.8 SE DIMMITT [34.54, -102.31], 1.3 ENE DIMMITT [34.56, -102.30]

03/12/19 22:30 CST	50K	Thunderstorm Wind (EG 70 kt)
03/12/19 22:32 CST	0	Source: Law Enforcement

A downburst along the southeast side of Dimmitt completely destroyed a sheet metal building and knocked out power to the city for several hours. A 50-foot HAM radio tower was also toppled by these winds.

KING COUNTY --- 8.6 WSW GUTHRIE 6666 ARPT [33.57, -100.48]

03/12/19 23:45 CST	0	Thunderstorm Wind (MG 52 kt)
03/12/19 23:45 CST	0	Source: Mesonet

Measured by a Texas Tech University West Texas mesonet.

Very rich moisture from the Gulf of Mexico overspread all of the region this day ahead of a vigorous upper level low in the Four Corners. Following widespread dense fog and drizzle for much of the morning and afternoon north of a warm front, a broken line of thunderstorms swept east late this evening ahead of a Pacific cold front. These storms encountered very strong low level wind shear along the warm front complete with moderate instability. The amount of wind shear in the lowest few thousand feet resulted in several transient low level mesocyclones within this line of thunderstorms - one of which supported a tornado that inflicted EF1 damage to a home and other structures near Anton (northeast Hockley County). Additional strong and severe wind gusts accompanied a few of these storms resulting in straight line wind damage at times. In spite of the damage, these storms provided much needed and widespread moderate to heavy rain of one to two inches.

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Damage to a house near Anton, TX caused by an EF1 tornado. Photo from the NWS Lubbock damage survey.

(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-Z038) KING, (TX-Z039) YOAKUM, (TX-Z040) TERRY, (TX-Z041) LYNN, (TX-Z042) GARZA, (TX-Z044) STONEWALL

03/13/19 08:29 CST	4.68M	High Wind (MAX 51 kt)
03/13/19 18:50 CST	0	

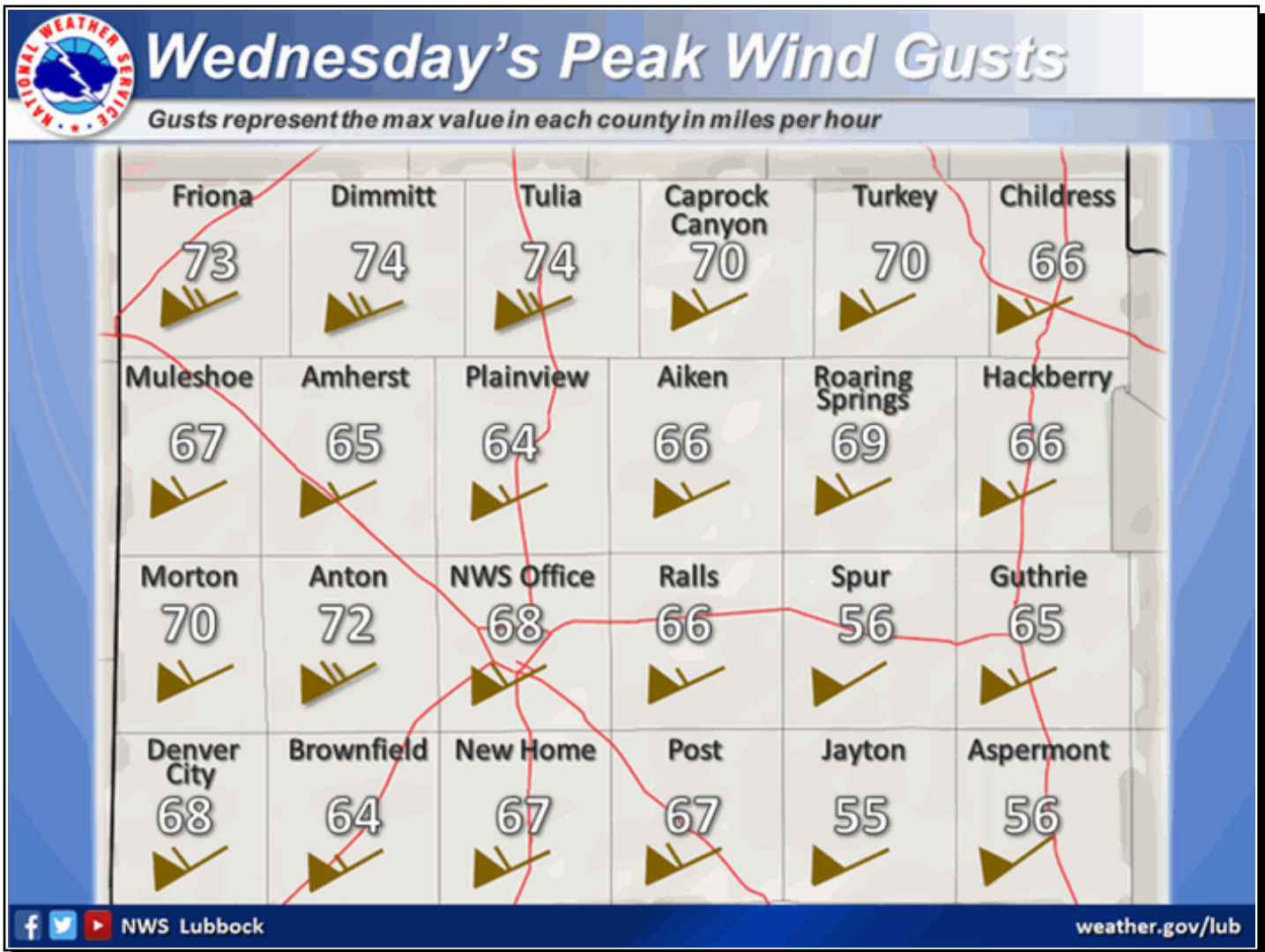
Following heavy rains of one to two inches the prior day, an already strong surface cyclone strengthened even further in far southeast Colorado and western Kansas. This rapid intensification created a long-lived and widespread high wind event from Far West Texas north to Kansas. The intense surface low set all-time record low pressure readings in some states such as New Mexico, Kansas, and Colorado. Across the Texas South Plains, sustained westerly winds whipped up to 40 to 50 mph by mid morning, with gusts of 60 to 70 mph for several hours before finally subsiding by early evening. The sheer duration, coverage, and intensity of these high winds had not been seen across the region in decades. Widespread blowing dust accompanied these incredible winds, but fortunately the earlier heavy rains and lack of severe drought conditions dampened the severity of blowing dust as most locations saw visibility bottom out to around one to two miles - well above dust storm warning conditions. This moisture also eliminated the threat of wildfires and prevented what could have easily been a wildfire outbreak had soaking rains not occurred the day prior. Regional damage from this windstorm was scattered to widespread with around \$2 million in property damage estimated in Lubbock County alone. Additional damage to trees, utility lines and poles, road signs, and traffic lights pushed combined losses across the region to an estimated \$4.6 million.

Maximum wind gusts per county:

- Castro County: 74 mph at Dimmitt
- Swisher County: 74 mph at Tulia
- Parmer County: 73 mph at Friona
- Hockley County: 72 mph at Anton
- Briscoe County: 70 mph at Caprock Canyons State Park
- Cochran County: 70 mph at Morton
- Hall County: 70 mph at Turkey
- Motley County: 69 mph at Roaring Springs

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Yoakum County: 68 mph at Denver City				
Lubbock County: 68 mph at the NWS office				
Bailey County: 67 mph at Muleshoe				
Lynn County: 67 mph at New Home				
Garza County: 67 mph at Post				
Floyd County: 66 mph at Aiken				
Childress County: 66 mph at the Childress Airport				
Cottle County: 66 mph at Hackberry				
Crosby County: 66 mph at Ralls				
Lamb County: 65 mph at Amherst				
King County: 65 mph southwest of Guthrie				
Terry County: 64 mph at Brownfield				
Hale County: 64 mph at Plainview				
Stonewall County: 56 mph at Aspermont				
Dickens County: 56 mph at Spur				
Kent County: 55 mph at Jayton.				



Maximum wind gusts per county from the historic March 13, 2019 windstorm. Image from NWS Lubbock.

HOCKLEY COUNTY --- 5.6 S SMYER [33.50, -102.16]

03/22/19 20:13 CST	0	Hail (2.00 in)
03/22/19 20:13 CST	0	Source: Fire Department/Rescue

Reported on Farm-to-Market Road 1585. Damage information was not available.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
LUBBOCK COUNTY --- 2.4 SSE WOLFFORTH [33.47, -102.00], 4.4 NW LUBBOCK AIRPARK [33.52, -101.88]				
	03/22/19 20:43 CST		0	Hail (1.00 in)
	03/22/19 21:04 CST		0	Source: Trained Spotter

A swath of hail up to quarter size fell near Upland Avenue and FM Road 1585, and continued northeast to 77th Street and Avenue W in southwest Lubbock. Other than stripping about 1/3 of the newly emerged leaves from many Bradford trees, monetary loss information was not available.

LUBBOCK COUNTY --- 4.9 S DOUD [33.50, -101.92]				
	03/22/19 20:55 CST		0	Hail (0.88 in)
	03/22/19 20:55 CST		0	Source: Public

Nickel size hail reported near 105th Street and Indiana Avenue. Damage information, if any, was not available.

Following a round of scattered thunderstorms this morning, one of which produced a severe gust in southwest Garza County, an isolated thunderstorm developed late this evening in southern Cochran County. This latter storm moved slowly eastward and intensified to severe levels across eastern Hockley County and southern Lubbock County. Hail as large as 2 inches in diameter fell near Smyer (eastern Hockley County), with up to quarter size hail at times in south and southwest Lubbock.