

Storm Data and Unusual Weather Phenomena - May 2021

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

TEXAS, South Panhandle

(TX-Z021) PARMER, (TX-Z022) CASTRO, (TX-Z027) BAILEY, (TX-Z028) LAMB, (TX-Z033) COCHRAN, (TX-Z034) HOCKLEY, (TX-Z039) YOAKUM				
	05/01/21 00:00 CST		0	Drought
	05/31/21 22:59 CST		0	

Significant amounts of widespread rainfall greatly improved drought conditions across the South Plains of West Texas during the month of May. A limited area of severe drought (D2) to extreme drought (D3) remained over the western South Plains and extreme southwestern Texas Panhandle. The second half of May became very active with rainfall from four to eight inches over much of the area. Although the typical severe weather also accompanied thunderstorms, there were several instances of heavy rainfall with little to no severe weather. Because of the extreme rainfall, temperatures were also cooler for the month of May by an average of two to three degrees. The rainfall nearly extinguished the fire weather conditions for the season with an extensive green-up of fuels especially over the western South Plains. Soil moisture continued to show improvement through May with an increase in reservoir storage levels.

YOAKUM COUNTY --- 3.4 WSW PLAINS [33.17, -102.89], 0.7 ENE PLAINS [33.18, -102.82]				
	05/03/21 15:23 CST		0	Hail (1.75 in)
	05/03/21 15:27 CST		0	Source: Public

Several reports were received of hail up to golf ball size from about four miles west-southwest of Plains to Plains along US Highway 82. No damage was reported.

YOAKUM COUNTY --- 12.6 E PLAINS [33.18, -102.61]				
	05/03/21 15:51 CST		0	Hail (1.75 in)
	05/03/21 15:51 CST		0	Source: Public

The Tokio, Texas co-op gin located at the intersection of Farm to Market Road 1780 and US Highway 82 reported golf ball size hail. No damage was reported.

TERRY COUNTY --- 2.0 W BROWNFIELD [33.18, -102.31], 1.0 SW BROWNFIELD [33.17, -102.29]				
	05/03/21 16:27 CST		0	Hail (1.75 in)
	05/03/21 16:36 CST		0	Source: Emergency Manager

Several reports were received of hail up to golf ball size from approximately two miles west of Brownfield on US Highway 82 to Brownfield. No damage was reported.

LYNN COUNTY --- 1.0 W O'DONNELL [32.97, -101.85]				
	05/03/21 17:22 CST		0	Thunderstorm Wind (MG 55 kt)
	05/03/21 17:22 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near O'Donnell measured a wind gust to 63 mph.

LYNN COUNTY --- 1.3 SW TAHOKA [33.17, -101.79]				
	05/03/21 17:36 CST		0	Hail (1.00 in)
	05/03/21 17:36 CST		0	Source: COOP Observer

An NWS cooperative weather observer reported quarter size hail in Tahoka.

GARZA COUNTY --- JUSTICEBURG [33.03, -101.20]				
	05/03/21 18:23 CST		0	Hail (1.00 in)
	05/03/21 18:23 CST		0	Source: Public

A report from the public was received of quarter size hail near Justiceburg along US Highway 84.

KENT COUNTY --- 18.5 S JAYTON KENT CO ARPT [32.97, -100.53]				
	05/03/21 19:26 CST		0	Hail (0.75 in)
	05/03/21 19:26 CST		0	Source: NWS Employee

An approaching upper level trough allowed for scattered thunderstorms to develop across eastern New Mexico into the South Plains on the afternoon of the third. A stalled cold front located from southeastern New Mexico through the southern South Plains and southern Rolling Plains generated a strong thermal boundary with ample instability to the south of the front. The most intense storm of the afternoon developed near the Texas/New Mexico state line and tracked eastward through the southern South Plains in the afternoon

Storm Data and Unusual Weather Phenomena - May 2021

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

and then into the southern Rolling Plains in the evening. This long track supercell generated hail as large as golf balls and accumulating small hail along its path.

CASTRO COUNTY --- 2.0 NE DIMMITT [34.57, -102.30]

	05/07/21 17:30 CST		0	Thunderstorm Wind (MG 53 kt)
	05/07/21 17:30 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Dimmitt measured a wind gust to 61 mph.

CASTRO COUNTY --- 3.0 N HART [34.42, -102.12]

	05/07/21 17:30 CST		0	Thunderstorm Wind (MG 51 kt)
	05/07/21 17:30 CST		0	Source: Mesonet

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

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

	05/07/21 17:35 CST		0	Thunderstorm Wind (MG 59 kt)
	05/07/21 17:40 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Muleshoe measured severe wind gusts from 1735 to 1740 CST. A peak gust of 68 mph was measured at 1735 CST.

LAMB COUNTY --- 9.0 WSW EARTH [34.18, -102.55]

	05/07/21 17:51 CST		0	Thunderstorm Wind (MG 51 kt)
	05/07/21 17:51 CST		0	Source: Mesonet

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

HALE COUNTY --- HALFWAY [34.18, -101.95]

	05/07/21 18:38 CST		0	Hail (1.00 in)
	05/07/21 18:38 CST		0	Source: Public

A report was received of quarter size hail along US Highway 70 west of Plainview near the town of Halfway.

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

	05/07/21 18:40 CST		0	Thunderstorm Wind (MG 53 kt)
	05/07/21 18:40 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Plains measured a wind gust to 61 mph.

SWISHER COUNTY --- 2.7 SSW EUNICE [34.44, -101.76]

	05/07/21 18:54 CST		0	Thunderstorm Wind (EG 52 kt)
	05/07/21 18:54 CST		0	Source: Broadcast Media

Local broadcast media reported that a utility line had been blown down by a thunderstorm wind near the town of Eunice.

HOCKLEY COUNTY --- 4.0 S LEVELLAND [33.52, -102.37]

	05/07/21 18:59 CST		0	Thunderstorm Wind (MG 63 kt)
	05/07/21 19:00 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Levelland measured severe wind gusts from 1859 CST through 1900 CST. A peak wind of 73 mph was measured at 1900 CST.

(TX-Z035) LUBBOCK

	05/07/21 19:58 CST		0	High Wind (MAX 51 kt)
	05/07/21 20:07 CST		0	

Very warm temperatures developed on the afternoon of the seventh. This allowed scattered thunderstorms to develop within a surface pressure trough in eastern New Mexico. This thunderstorm activity moved into West Texas and was able to mostly produce severe wind gusts due to large dew point depressions. This was especially true during periods of decaying shower and thunderstorm activity. Although most severe wind gusts were associated with thunderstorms, a couple of gusts occurred without the presence of lightning and low reflectivity on radar imagery. The Texas Tech University West Texas mesonet at Reese Center (Lubbock County) measured a wind gust to 59 mph with very light rain showers. Additionally, the Automated Surface Observation System (ASOS) at Lubbock Preston

Storm Data and Unusual Weather Phenomena - May 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Smith International Airport measured a wind gust to 58 mph with the same decaying rain shower activity.				
<hr/>				
PARMER COUNTY --- FRIONA [34.63, -102.73]				
	05/09/21 19:42 CST		0	Hail (0.88 in)
	05/09/21 19:42 CST		0	Source: Law Enforcement
<hr/>				
PARMER COUNTY --- 2.0 NE FRIONA [34.65, -102.71]				
	05/09/21 22:20 CST		0	Thunderstorm Wind (MG 59 kt)
	05/09/21 22:20 CST		0	Source: Mesonet
<hr/>				
A Texas Tech University West Texas mesonet site near Friona measured a wind gust to 68 mph.				
Isolated thunderstorms developed in eastern New Mexico late in the afternoon of the ninth in post-frontal upslope flow. A few of these storms drifted into the extreme southwestern Texas Panhandle during the evening. The first storm around 1942 CST produced hail up to nickel size in Friona (Parmer County). A second storm affected Parmer County again producing a wind gust to 68 mph at 2220 CST.				
<hr/>				
PARMER COUNTY --- BOVINA [34.52, -102.90]				
	05/14/21 17:19 CST		0	Hail (1.00 in)
	05/14/21 17:19 CST		0	Source: Public
<hr/>				
Local broadcast media relayed a report of quarter size hail in Bovina.				
A weak short wave moving over West Texas and a dryline in eastern New Mexico were able to generate scattered thunderstorms on the afternoon of the 14th. These thunderstorms initially developed along the dryline and slowly moved east into the extreme southwestern Texas Panhandle. One of these thunderstorms became severe as it moved across Parmer County creating quarter size hail.				
<hr/>				
COCHRAN COUNTY --- MORTON [33.72, -102.77]				
	05/14/21 17:40 CST		0	Hail (1.00 in)
	05/14/21 17:40 CST		0	Source: COOP Observer
<hr/>				
An NWS cooperative weather observer reported quarter size hail in Morton.				
<hr/>				
COCHRAN COUNTY --- 0.7 NNW MORTON [33.73, -102.77], 1.5 NNE MORTON [33.74, -102.76], 0.8 W MORTON COCHRAN CO AR [33.73, -102.74], 1.0 SE MORTON [33.71, -102.76]				
	05/14/21 18:02 CST		0	Flash Flood (due to Heavy Rain)
	05/14/21 20:02 CST		0	Source: Law Enforcement
<hr/>				
An initial isolated thunderstorm remained nearly stationary over the city of Morton for about one and a half hours. This storm produced several inches of rain during this time. Shortly after this initial thunderstorm dissipated, a line of storms moved in from the west adding to the already flooded city roadways. Law enforcement reported that multiple vehicles in the city of Morton were stuck in roadways due to high water.				
<hr/>				
YOAKUM COUNTY --- 7.0 WNW DENVER CITY [33.01, -102.96]				
	05/14/21 19:05 CST		0	Thunderstorm Wind (MG 52 kt)
	05/14/21 19:05 CST		0	Source: Mesonet
<hr/>				
A Texas Tech University West Texas mesonet site near Denver City measured a wind gust to 60 mph.				
<hr/>				
HOCKLEY COUNTY --- LEVELLAND [33.58, -102.37]				
	05/14/21 19:25 CST		0	Hail (1.75 in)
	05/14/21 19:30 CST		0	Source: Emergency Manager
<hr/>				
Several reports were received of hail in the city of Levelland ranging from quarter size to golf ball size. No damage was reported.				
<hr/>				
HOCKLEY COUNTY --- 6.0 SSW ANTON [33.74, -102.21]				
	05/14/21 19:55 CST		0	Thunderstorm Wind (MG 58 kt)
	05/14/21 19:55 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Anton measured a wind gust of 67 mph.

A weak upper level short wave approaching West Texas combined with a surface dryline in eastern New Mexico to create scattered severe thunderstorms on the evening of the 14th. Initial development of thunderstorms was in eastern New Mexico close to where the dryline was located in the afternoon hours. With weak wind shear in the atmosphere, thunderstorms slowly moved eastward into West Texas on the development of a cold pool. A substantial amount of instability was able to produce isolated large hail as well as severe

Storm Data and Unusual Weather Phenomena - May 2021

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

wind gusts. The slow movement of storms and anomalously high precipitable water values also contributed to high rainfall rates. Numerous vehicles were reported stuck in area roadways in the town of Morton (Cochran County). Widespread minor street flooding was also reported in the city of Lubbock (Lubbock County) but did not cause any major known issues.

CHILDRESS COUNTY --- 0.2 N KIRKLAND [34.38, -100.07]

	05/16/21 16:33 CST		0	Hail (1.50 in)
	05/16/21 16:49 CST		0	Source: COOP Observer

Reports of hail up to ping pong size from law enforcement and an NWS cooperative weather observer in Kirkland. No damage was reported.

LAMB COUNTY --- 1.0 SW EARTH [34.22, -102.41]

	05/16/21 18:29 CST		0	Hail (1.50 in)
	05/16/21 18:29 CST		0	Source: Trained Spotter

A storm spotter reported hail up to ping pong size south of Earth on Farm to Market Road 1055. No damage was reported.

COTTLE COUNTY --- 5.0 E CEE VEE [34.22, -100.36]

	05/16/21 18:30 CST		0	Hail (1.25 in)
	05/16/21 18:30 CST		0	Source: Social Media

A report was received via social media of half dollar size hail east of Cee Vee.

LAMB COUNTY --- 6.0 ENE SUDAN [34.11, -102.44], 6.4 N AMHERST [34.11, -102.42]

	05/16/21 18:40 CST		0	Tornado (EFU, L: 0.97 mi , W: 50 yd)
	05/16/21 18:43 CST		0	Source: Trained Spotter

Numerous storm chasers photographed a brief tornado in an open field about seven miles south of Earth. No known damaged occurred so a rating of EF-unknown was assigned to this tornado.

SWISHER COUNTY --- 1.0 S HAPPY [34.72, -101.85]

	05/16/21 18:40 CST		0	Hail (1.00 in)
	05/16/21 18:40 CST		0	Source: Public

A report of quarter size hail was received from the public just south of Happy.

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

	05/16/21 20:07 CST		0	Thunderstorm Wind (MG 63 kt)
	05/16/21 20:28 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Lesley measured severe wind gusts from 2007 CST through 2028 CST. A maximum wind gust of 73 mph was reported at 2028 CST.

HALE COUNTY --- 6.0 S HALE CENTER [33.98, -101.83], PETERSBURG [33.87, -101.60]

	05/16/21 21:31 CST		0	Hail (3.00 in)
	05/16/21 22:17 CST		0	Source: Trained Spotter

An intense supercell thunderstorm, which previously produced a tornado earlier in the evening, produced a large hail swath from approximately six miles south of Hale Center to Petersburg. Numerous reports of hail were received along this path length. Hail sizes ranged from quarter size at the initial report near the intersection of Interstate 27 and Farm to Market Road 37 at 2131 CST to three inches in diameter about five miles northwest of Petersburg at 2157 CST.

An upper level low in the southwestern US combined with ample instability across West Texas to create numerous severe thunderstorms with one long lived supercell producing a tornado. There were two areas of thunderstorm development late in the afternoon of the 16th. The first was in the extreme southeastern Texas Panhandle along a lingering outflow boundary located from northwest Texas into the central Panhandle near Amarillo. The second area was along a dryline in the western South Plains. The lone thunderstorm that developed along the dryline to survive past sunset became a long lived supercell which tracked from Lamb County into Crosby County over several hours. Shortly after this supercell developed in western Lamb County, it produced a brief tornado between Earth and Amherst photographed by several storm chasers. The tornado remained over open land and did not cause any known damage. This supercell would go on to nearly dissipate while over western Hale County. However, it regenerated over central Hale County and would go on to produce a long hail swath of up to three inch diameter hail from central Hale County to Petersburg (Hale County). Meanwhile, widespread thunderstorms developed in the extreme southern Texas Panhandle into the Rolling Plains on a cold pool that moved south out of the central Texas Panhandle. These thunderstorms would produce sporadic severe wind gusts and severe hail.

Storm Data and Unusual Weather Phenomena - May 2021

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



Tornadic thunderstorm between Earth and Sudan. The picture is courtesy of Cameron Nixon.

DICKENS COUNTY --- 0.6 W SPUR MUNI ARPT [33.45, -100.86]

05/17/21 16:04 CST	0	Hail (1.00 in)
05/17/21 16:04 CST	0	Source: Emergency Manager

Emergency management in Dickens County reported quarter size hail about two miles south of Spur.

KENT COUNTY --- 6.8 N CLAIREMONT [33.27, -100.77], 0.8 NE GIRARD [33.36, -100.66]

05/17/21 16:07 CST	0	Hail (2.75 in)
05/17/21 16:31 CST	0	Source: Storm Chaser

Several reports of hail up to baseball size were received from storm chasers in a swath from about nine miles southwest of Girard to the town of Girard. No damage was reported.

MOTLEY COUNTY --- MATADOR [34.02, -100.82]

05/17/21 16:41 CST	0	Hail (1.50 in)
05/17/21 16:41 CST	0	Source: Law Enforcement

The Motley County sheriff's office reported ping pong ball size hail in Matador.

KENT COUNTY --- JAYTON [33.25, -100.58], 1.5 NNW JAYTON [33.27, -100.59]

Storm Data and Unusual Weather Phenomena - May 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/17/21 16:48 CST		0	Hail (1.75 in)
	05/17/21 16:59 CST		0	Source: Law Enforcement

Law enforcement reported a swath of hail along Texas Highway 70 from Jayton to about two miles northwest of Jayton.

BAILEY COUNTY --- 7.7 NNW BAILEYBORO [34.13, -102.86]

05/17/21 17:16 CST	0	Hail (2.00 in)
05/17/21 17:16 CST	0	Source: Storm Chaser

A storm chaser reported hail up to two inches in diameter about nine miles southwest of Muleshoe. No damage was reported.

(TX-Z021) PARMER, (TX-Z025) HALL, (TX-Z032) COTTLE, (TX-Z042) GARZA

05/17/21 17:20 CST	0	High Wind (MAX 56 kt)
05/18/21 05:07 CST	0	

HOCKLEY COUNTY --- SUNDOWN [33.45, -102.50]

05/17/21 17:21 CST	0	Hail (1.00 in)
05/17/21 17:21 CST	0	Source: Trained Spotter

A trained spotter reported quarter size hail in Sundown.

BAILEY COUNTY --- MULESHOE [34.22, -102.73]

05/17/21 17:33 CST	0	Hail (1.00 in)
05/17/21 17:35 CST	0	Source: COOP Observer

Law enforcement in Muleshoe and an NWS cooperative weather observer reported quarter size hail in Muleshoe.

HOCKLEY COUNTY --- 3.8 NW CLAUENE [33.50, -102.43], 3.0 ESE LEVELLAND MUNI ARPT [33.53, -102.32]

05/17/21 17:44 CST	0	Hail (1.75 in)
05/17/21 17:54 CST	0	Source: Storm Chaser

Multiple reports were received of a swath of hail up to golf ball size from southwest of Levelland to southeast of Levelland crossing US Highway 385. No damage was reported.

LAMB COUNTY --- SUDAN [34.07, -102.53]

05/17/21 17:47 CST	0	Hail (2.00 in)
05/17/21 17:47 CST	0	Source: Social Media

A photograph on social media showed hail up to two inches in diameter in Sudan. No damage was reported.

MOTLEY COUNTY --- 6.2 ENE FLOMOT [34.27, -100.89]

05/17/21 17:57 CST	0	Hail (1.00 in)
05/17/21 17:57 CST	0	Source: Storm Chaser

A storm chaser reported quarter size hail northeast of Flomot.

BAILEY COUNTY --- NEEDMORE [34.03, -102.73]

05/17/21 17:58 CST	0	Hail (2.00 in)
05/17/21 17:58 CST	0	Source: Storm Chaser

A storm chaser reported hail up to two inches in diameter in Needmore. No damage was reported.

CASTRO COUNTY --- 2.0 NE DIMMITT [34.57, -102.30]

05/17/21 18:15 CST	0	Thunderstorm Wind (MG 62 kt)
05/17/21 18:20 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Dimmitt measured severe wind gusts from 1815 CST through 1820 CST. A peak wind gust of 71 mph was measured at 1820 CST.

HOCKLEY COUNTY --- 4.0 SW SMYER [33.54, -102.22]

05/17/21 18:27 CST	0	Hail (2.50 in)
05/17/21 18:27 CST	0	Source: Storm Chaser

Storm Data and Unusual Weather Phenomena - May 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A storm chaser reported hail up to tennis ball size southwest of Smyer. No damage was reported.				
LAMB COUNTY --- 3.9 NNW SUDAN [34.12, -102.55]				
	05/17/21 18:33 CST	0		Hail (1.00 in)
	05/17/21 18:33 CST	0		Source: Storm Chaser
A storm chaser reported quarter size hail northwest of Sudan.				
HALL COUNTY --- 1.8 NW TURKEY [34.42, -100.90]				
	05/17/21 18:36 CST	0		Hail (2.00 in)
	05/17/21 18:36 CST	0		Source: Storm Chaser
A storm chaser reported hail up to two inches in diameter along Texas Highway 70 just northwest of Turkey. No damage was reported.				
BAILEY COUNTY --- 6.4 NW BAILEYBORO [34.10, -102.89], 8.2 SSW PROGRESS [34.17, -102.86], 4.1 SSW MULESHOE [34.17, -102.76], 6.0 NNE BAILEYBORO [34.11, -102.78]				
	05/17/21 18:40 CST	0		Flash Flood (due to Heavy Rain)
	05/17/21 20:40 CST	0		Source: Trained Spotter
Training thunderstorms over several hours across central Bailey County caused flash flooding mostly along Farm to Market Road 746 west of Texas Highway 214. The next morning water was still over Farm to Market Road 746.				
LUBBOCK COUNTY --- 4.1 WNW LUBBOCK AIRPARK [33.50, -101.89]				
	05/17/21 18:48 CST	0		Hail (1.00 in)
	05/17/21 18:48 CST	0		Source: Trained Spotter
A trained spotter reported quarter size hail at 108th Street and Indiana Avenue in the city of Lubbock.				
HOCKLEY COUNTY --- 4.6 SSE SMYER [33.52, -102.14], 4.7 SSE SMYER [33.52, -102.14]				
	05/17/21 18:50 CST	0		Tornado (EFU, L: 0.42 mi , W: 30 yd)
	05/17/21 18:51 CST	0		Source: Storm Chaser
Numerous reports of a funnel cloud and a brief touchdown were received on a supercell just west of Wolfforth. The tornado briefly touched down in an open field in Hockley County just west of the Lubbock/Hockley County line. No damage was known from this tornado, therefore, a rating of EF-Unknown was assigned.				
LUBBOCK COUNTY --- 2.5 NNE WOLFFORTH [33.53, -102.01], 3.8 SSW LUBBOCK [33.53, -101.87]				
	05/17/21 19:12 CST	0		Hail (1.75 in)
	05/17/21 19:32 CST	0		Source: Social Media
A tornadic supercell produced a swath of mostly quarter size hail from Wolfforth across a small portion of the southern part of the city of Lubbock from 1912 CST through 1932 CST. A photograph on social media showed a maximum hail size of golf ball size in Wolfforth.				
CHILDRESS COUNTY --- 2.0 NNE CHILDRESS [34.45, -100.19]				
	05/17/21 21:30 CST	0		Thunderstorm Wind (MG 55 kt)
	05/17/21 21:35 CST	0		Source: Mesonet
A Texas Tech University West Texas mesonet site near Childress measured severe wind gusts from 2130 CST through 2135 CST. A peak wind gust of 63 mph was measured at 2135 CST.				
<p>A widespread severe thunderstorm event occurred on the afternoon and evening of the 17th. Thunderstorms initially formed along a dryline near the Texas/New Mexico state line and along an outflow boundary from previous day storms. The ample instability was complemented by large scale lift moving overhead from an upper level jet moving into the southern High Plains. Very intense supercells developed across the entirety of the South Plains, Rolling Plains, and extreme southern Texas Panhandle due to the abundant amount of unstable air. Several supercells produced hail up to baseball size as they slowly moved across the region. One particularly robust rotating storm developed over Hockley County and moved eastward into Lubbock County and through the city of Lubbock. This storm developed several funnel clouds and a brief tornado in far eastern Hockley County. The low level circulation moved directly over the southern portion of the city of Lubbock but did not produce any additional tornadoes. Decaying thunderstorms also produced two high wind gusts. These high wind gusts were measured by the Texas Tech University West Texas mesonet at Friona (Parmer County) 64 mph and Lesley (Hall County) 59 mph. Lastly, thunderstorms repeatedly formed over central Bailey County causing flash flooding along Farm to Market Road 746 west of Texas Highway 214.</p>				
In the early morning hours of the 18th, stratiform precipitation from decaying thunderstorms produced two high wind gusts. One near				

Storm Data and Unusual Weather Phenomena - May 2021

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

Graham of 62 mph and the other near Hackberry (Cottle County) of 59 mph. Both of these reports came from the Texas Tech University West Texas mesonet.

LAMB COUNTY --- 1.0 NE AMHERST [34.03, -102.41]

05/18/21 16:32 CST	0	Thunderstorm Wind (MG 56 kt)
05/18/21 16:32 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Amherst measured a severe wind gust of 64 mph.

After a day of widespread severe thunderstorm activity on the 17th, scattered thunderstorms again developed on the afternoon of the 18th. Instability was not as great on the 18th, therefore, most thunderstorms were not severe. However, one storm became strong enough to produce a severe wind gust in Lamb County.

HOCKLEY COUNTY --- 3.6 SSW WHITHARRAL [33.68, -102.35]

05/24/21 16:57 CST	0	Hail (1.75 in)
05/24/21 16:57 CST	0	Source: NWS Employee

An off duty NWS employee reported golf ball size hail a few miles to the southwest of Whitharral along US Highway 385.

COCHRAN COUNTY --- MORTON [33.72, -102.77]

05/24/21 17:35 CST	0	Hail (1.00 in)
05/24/21 17:35 CST	0	Source: COOP Observer

An NWS cooperative weather observer reported quarter size hail in Morton.

HOCKLEY COUNTY --- 1.5 NE LEVELLAND [33.59, -102.35]

05/24/21 17:39 CST	0	Hail (1.00 in)
05/24/21 17:39 CST	0	Source: Emergency Manager

Emergency management in Hockley County reported quarter size hail on the east side of Levelland.

DICKENS COUNTY --- SPUR [33.48, -100.85]

05/24/21 20:48 CST	0	Hail (1.00 in)
05/24/21 20:48 CST	0	Source: COOP Observer

An NWS cooperative weather observer reported quarter size hail in Spur.

CROSBY COUNTY --- 6.0 NW WHITE RIVER LAKE [33.52, -101.16]

05/24/21 21:42 CST	0	Thunderstorm Wind (MG 53 kt)
05/24/21 21:45 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near White River Lake measured severe wind gusts from 2142 CST through 2145 CST. A peak wind gust of 61 mph was measured at 2145 CST.

LUBBOCK COUNTY --- REESE AFB [33.60, -102.05]

05/24/21 22:27 CST	0	Thunderstorm Wind (MG 56 kt)
05/24/21 22:27 CST	0	Source: Mesonet

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

LUBBOCK COUNTY --- 2.5 SW LUBBOCK [33.56, -101.88]

05/24/21 23:06 CST	0	Hail (1.00 in)
05/24/21 23:06 CST	0	Source: NWS Employee

An off duty NWS employee measured quarter size hail around the intersection of 42nd Street and Indiana Avenue in the city of Lubbock.

LUBBOCK COUNTY --- 3.5 N LUBBOCK [33.63, -101.86], 0.5 W LUBBOCK [33.58, -101.86], 2.7 ESE BURRIS [33.52, -101.74], 4.2 N POSEY [33.54, -101.70], 4.4 SE (LBB)LUBBOCK INTL AR [33.63, -101.76]

05/24/21 23:15 CST	0	Flash Flood (due to Heavy Rain)
05/25/21 01:15 CST	0	Source: Law Enforcement

Storm Data and Unusual Weather Phenomena - May 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Thunderstorms producing heavy rainfall repeatedly developed and moved over the northeastern portion of the city of Lubbock late on the 24th particularly around the intersection of Interstate-27 and North Loop 289. Early in the morning of the 25th, Lubbock police reported numerous vehicles had become stranded on area roadways. At this point, many roads were closed off by law enforcement due to flooding. Water eventually flowed into the Double Mountain Fork of the Brazos through Mackenzie Park in Lubbock (Lubbock County). This flow of water inundated Joyland Amusement Park shutting down the park until early June. Farther downstream, water flowed over Farm to Market Road 835 west of Buffalo Springs Lake. The road was closed due to the roadway becoming impassable.				

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

	05/25/21 00:25 CST	0	Thunderstorm Wind (MG 63 kt)
	05/25/21 00:25 CST	0	Source: Mesonet

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

Scattered thunderstorms initially developed over the western South Plains on the afternoon of the 24th under a very unstable atmosphere. Relatively weak atmospheric flow for late May kept most of these storms from becoming severe. These storms produced mostly heavy rainfall but were also able to generate a few severe hail and wind reports. Most hail reports were only up to the size of quarters but one report of golf balls was reported in Hockley County near Whitharral. More notably, heavy rain caused flash flooding in the city of Lubbock and along the Double Mountain Fork of the Brazos in Lubbock County. Heavy rain over the northeastern portion of the city of Lubbock flowed through Mackenzie Park into the Double Mountain Fork of the Brazos. This water made its way downstream into Buffalo Springs Lake flowing over Farm to Market Road 835 west of the lake. The road was shut down on the 25th due to water flowing over the roadway making it impassable.

CASTRO COUNTY --- HART [34.38, -102.12]

	05/26/21 17:40 CST	0	Hail (0.75 in)
	05/26/21 17:40 CST	0	Source: COOP Observer

LAMB COUNTY --- 1.0 NE AMHERST [34.03, -102.41]

	05/26/21 18:30 CST	0	Thunderstorm Wind (MG 59 kt)
	05/26/21 18:36 CST	0	Source: Mesonet

A Texas Tech West Texas mesonet site near Amherst measured intermittent severe wind gusts from 1830 CST through 1836 CST. A peak wind gust of 68 mph was measured at 1836 CST.

HALE COUNTY --- 11.1 WNW EDMONSON [34.32, -102.09]

	05/26/21 19:40 CST	0	Hail (1.75 in)
	05/26/21 19:40 CST	0	Source: Public

A report was received of golf ball size hail about seven miles northwest of Cotton Center. No damage was reported.

HALE COUNTY --- 5.6 WNW HALE CENTER [34.09, -101.92], 5.3 WNW HALE CENTER [34.10, -101.91]

	05/26/21 20:32 CST	0	Tornado (EFU, L: 1.01 mi , W: 30 yd)
	05/26/21 20:37 CST	0	Source: Storm Chaser

A few reports of a brief tornado were received from storm chasers and the public. The tornado remained over an open field and did not cause any known damage, therefore, an EF-Unknown was assigned.

LAMB COUNTY --- 1.0 NE AMHERST [34.03, -102.41]

	05/26/21 20:37 CST	0	Thunderstorm Wind (MG 74 kt)
	05/26/21 20:38 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Amherst measured severe wind gusts of 85 mph from 2037 CST through 2038 CST.

LAMB COUNTY --- 6.0 S OLTON [34.09, -102.13]

	05/26/21 20:55 CST	0	Thunderstorm Wind (MG 60 kt)
	05/26/21 21:05 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Olton measured severe wind gusts from 2055 CST through 2105 CST. A peak wind gust of 69 mph was measured at 2105 CST.

HALE COUNTY --- 4.0 SSW HALFWAY [34.13, -101.99], 3.2 S HALFWAY [34.13, -101.95]

	05/26/21 21:11 CST	1M	Thunderstorm Wind (EG 78 kt)
	05/26/21 21:16 CST	0	Source: NWS Storm Survey

Storm Data and Unusual Weather Phenomena - May 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
An NWS storm survey revealed extensive damage in Hale County about seven miles northwest of Hale Center. Thunderstorms began bowing out across Lamb and western Hale Counties creating a line of destructive winds. According to a local agricultural producer, at least 35 irrigation center pivots were flipped in the area. An NWS storm survey found an out building that had been destroyed as well as a flipped RV. Several of the flipped irrigation center pivots were also found around the intersection of Farm to Market Roads 179 and 1071. Based on the damages observed, winds were estimated between 80 and 90 mph.				

HOCKLEY COUNTY --- 6.0 SSW ANTON [33.74, -102.21]

05/26/21 21:15 CST	0	Thunderstorm Wind (MG 62 kt)
05/26/21 21:20 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet measured a severe wind gust to 71 mph from 2115 CST through 2120 CST.

HALE COUNTY --- (PVW)HALE CO ARPT [34.17, -101.72]

05/26/21 21:55 CST	0	Thunderstorm Wind (MG 54 kt)
05/26/21 21:55 CST	0	Source: AWOS

An AWOS station at Plainview measured a wind gust to 62 mph.

Persistent southwest flow aloft and a dryline allowed scattered thunderstorms to develop again on the South Plains. Although atmospheric flow continued to be weak, substantial instability supported severe thunderstorms, mostly in the form of strong destructive winds. The most intense storms took aim on Lamb and Hale Counties where they generated large hail and destructive outflow winds. One brief tornado was reported in Hale County to the northwest of Hale Center. Late in the evening, thunderstorms evolved into bowing lines producing severe, damaging winds. These intense winds destroyed several center pivots in Hale County north of Cotton Center. Winds were estimated at 80-90 mph based on an NWS storm survey.



Storm Data and Unusual Weather Phenomena - May 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<i>Photograph of several irrigation center pivots that had been flipped due to strong thunderstorm winds. Photograph is from the NWS storm survey.</i>				

HALL COUNTY --- 0.7 WNW TURKEY [34.40, -100.89], 1.4 SSW TURKEY [34.38, -100.89]	05/27/21 18:01 CST		0	Hail (1.50 in)
	05/27/21 18:07 CST		0	Source: Fire Department/Rescue

Several reports were received of a swath of severe hail up to golf ball size from just north of Turkey to just south of Turkey.

COTTLE COUNTY --- 6.0 N PADUCAH [34.11, -100.30]	05/27/21 18:52 CST		0	Hail (0.88 in)
	05/27/21 18:52 CST		0	Source: Storm Chaser

On the afternoon of the 27th, a dryline mixed to the edge of the caprock with ample instability to the east of this feature. However, only isolated thunderstorms developed with one producing hail up to ping pong size in Turkey (Hall County).

PARMER COUNTY --- FRIONA [34.63, -102.73]	05/28/21 03:54 CST		0	Hail (1.25 in)
	05/28/21 03:57 CST		0	Source: Public

A couple of reports from the public were received of hail up to half dollar size in the city of Friona.

MOTLEY COUNTY --- 4.0 NE FLOMOT [34.26, -100.93]	05/28/21 06:27 CST		0	Hail (1.00 in)
	05/28/21 06:27 CST		0	Source: COOP Observer

An NWS cooperative weather observer reported quarter size hail.

FLOYD COUNTY --- 1.9 ENE LAKEVIEW [33.88, -101.22]	05/28/21 09:56 CST		0	Hail (1.75 in)
	05/28/21 09:56 CST		0	Source: COOP Observer

An NWS cooperative weather observer reported hail up to golf ball size about nine miles southeast of Floydada. No damage was reported.

LUBBOCK COUNTY --- SHALLOWATER [33.68, -101.98], 3.0 E SHALLOWATER [33.68, -101.93]	05/28/21 11:45 CST		0	Hail (1.00 in)
	05/28/21 12:01 CST		0	Source: Social Media

Photographs on social media were received of hail up to quarter size in the town of and to the east of Shallowater.

CROSBY COUNTY --- RALLS [33.68, -101.38]	05/28/21 12:10 CST		0	Hail (1.25 in)
	05/28/21 12:10 CST		0	Source: Public

Multiple reports were received of hail up to half dollar size in the city of Ralls.

CROSBY COUNTY --- CROSBYTON [33.67, -101.25]	05/28/21 12:54 CST		0	Hail (0.88 in)
	05/28/21 12:54 CST		0	Source: Law Enforcement

Strong instability combined with a quasi-stationary front draped across the South Plains allowed thunderstorms to develop from the early morning through early afternoon hours. These thunderstorms were able to produce mostly nickel to half dollar size hail as they tracked eastward near the frontal boundary. One storm developed over Cochran County late in the morning and tracked steadily eastward all the way into the Rolling Plains, occasionally dropping quarter to half dollar size hail.

YOAKUM COUNTY --- 3.0 N PLAINS [33.22, -102.83]	05/28/21 20:20 CST		0	Thunderstorm Wind (MG 50 kt)
	05/28/21 20:20 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Plains measured a wind gust to 58 mph.

HOCKLEY COUNTY --- 1.5 SSW WHITHARRAL [33.71, -102.34]

Storm Data and Unusual Weather Phenomena - May 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/28/21 20:28 CST		3K	Thunderstorm Wind (EG 52 kt)
	05/28/21 20:28 CST		0	Source: Emergency Manager

Emergency management in Hockley County reported that a power pole was blown over at the intersection of Mexico Road and US Highway 385 just south of Whitharral.

(TX-Z033) COCHRAN

05/28/21 21:10 CST	0	High Wind (MAX 52 kt)
05/28/21 21:10 CST	0	

On the afternoon of the 28th, scattered thunderstorms developed off of the Sacramento Mountains of New Mexico under moist, upslope flow. By the evening, these storms had developed into a squall line that moved across the central and southwestern South Plains. A couple of severe wind gusts were reported from this squall line as it moved through the southwestern South Plains. Well behind the squall line in the stratiform precipitation region, a wake low produced a high wind gust near Morton (Cochran County) to 60 mph measured by the Texas Tech University West Texas mesonet.

COCHRAN COUNTY --- 5.2 WNW MORTON [33.75, -102.86]

05/30/21 19:50 CST	0	Hail (1.00 in)
05/30/21 19:50 CST	0	Source: Storm Chaser

A storm chaser reported hail up to quarter size about five miles west of Morton. Additionally, trees were blown down just east of the location of the hail.

HOCKLEY COUNTY --- 2.7 SSW SUNDOWN [33.42, -102.52], 3.0 NW COBLE [33.63, -102.54], 5.1 N OPDYKE [33.67, -102.27], 1.6 ESE ARNETT [33.47, -102.28]

05/30/21 20:45 CST	0	Flash Flood (due to Heavy Rain)
05/30/21 23:45 CST	0	Source: Fire Department/Rescue

Widespread thunderstorms over the western and southwestern South Plains produced heavy rainfall over a large area. Numerous reports of flooding were received in Hockley County with multiple roads underwater. Widespread rain totals of up to three inches were common over the flooded areas.

Thunderstorms developed off of the Sacramento Mountains of New Mexico on the afternoon of the 30th. This activity became more widespread as it approached West Texas among stronger available instability. However, a general lack of deep layer shear prevented most of these storms from becoming severe. This thunderstorm activity eventually became very slow moving and produced heavy rainfall over a large area over Hockley County. Numerous reports of flooding were reported in Hockley County from Sundown to Levelland. A widespread area generally received over three inches of rainfall during the evening of the 30th.