

Storm Data and Unusual Weather Phenomena - June 2021

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-Z027) BAILEY, (TX-Z028) LAMB, (TX-Z033) COCHRAN, (TX-Z034) HOCKLEY, (TX-Z039) YOAKUM				
	06/01/21 00:00 CST		0	Drought
	06/08/21 06:00 CST		0	

Widespread wet conditions in May continued into the first week in June which further relieved long term drought conditions across the entire region but especially in the western South Plains and extreme southwestern Texas Panhandle. The long term drought that has covered the entire region over the past 18 months was reduced to less than moderate (D2) drought conditions. Recent rainfall in early June has mostly been between two and three inches bringing a swift end to the drought.

DICKENS COUNTY --- MC ADOO [33.73, -100.98]				
	06/01/21 18:23 CST		0	Hail (0.75 in)
	06/01/21 18:23 CST		0	Source: Law Enforcement

Isolated thunderstorms developed across the South Plains and Rolling Plains on the afternoon of the first in a moderately unstable environment ahead of an approaching short wave. These storms remained sub-severe producing only penny size hail at McAdoo (Dickens County).

KING COUNTY --- 10.0 WSW GUTHRIE [33.56, -100.49]				
	06/02/21 04:34 CST		0	Thunderstorm Wind (MG 51 kt)
	06/02/21 04:34 CST		0	Source: Mesonet

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

COTTLE COUNTY --- 10.0 SW PADUCAH [33.92, -100.42]				
	06/02/21 04:42 CST		0	Thunderstorm Wind (MG 51 kt)
	06/02/21 04:42 CST		0	Source: Mesonet

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

Early in the morning on the second, a mesoscale convective system (MCS) moved southeastward out of the Texas Panhandle into the South Plains. This MCS maintained its intensity as it reached the Rolling Plains and began to develop a mesoscale convective vortex (MCV) on the north side of a bowing line segment. As this occurred, a couple of severe thunderstorm wind gusts were observed by the Texas Tech University West Texas mesonet.

LAMB COUNTY --- 9.0 WSW EARTH [34.18, -102.55]				
	06/02/21 19:59 CST		0	Thunderstorm Wind (MG 52 kt)
	06/02/21 19:59 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Earth measured a wind gust to 60 mph.

HOCKLEY COUNTY --- 4.0 S LEVELLAND [33.52, -102.37]				
	06/02/21 21:28 CST		0	Thunderstorm Wind (MG 56 kt)
	06/02/21 21:31 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Levelland measured severe wind gusts from 2128 CST through 2131 CST. A peak wind gust of 64 mph was measured at 2129 CST.

On the afternoon of the second, scattered thunderstorms developed in eastern New Mexico and moved into West Texas during the evening hours. Additional thunderstorms developed in far southeastern New Mexico ahead of this activity. However, both complexes of thunderstorms combined into a single mesoscale convective system (MCS) as it moved across the South Plains. This MCS developed a small bowing segment which produced severe winds in Hockley County.

CASTRO COUNTY --- DIMMITT [34.55, -102.32], 2.0 NE DIMMITT [34.57, -102.30]				
	06/07/21 19:55 CST		10K	Thunderstorm Wind (MG 60 kt)
	06/07/21 20:00 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Dimmitt measured severe wind gusts from 1955 CST to 2000 CST. A peak wind gust of 69 mph was measured at 1955 CST. Additionally, an NWS cooperative weather observer reported that a HAM radio tower was blown over. It was stated that the tower was rated to 90 mph.

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Scattered thunderstorms developed on the evening of the seventh across east-central New Mexico into the extreme southwestern Texas Panhandle despite weak forcing over the region. Storms quickly became severe as they formed in an extremely unstable air mass. One of these storms produced very strong winds along an outflow boundary as it moved through Dimmitt (Castro County). A Texas Tech University West Texas mesonet site near Dimmitt measured a wind gust to 69 mph. Meanwhile, a NWS cooperative weather observer reported that a HAM radio tower rated to 90mph was blown over.

(TX-Z032) COTTLE

06/08/21 04:05 CST	0	High Wind (MAX 54 kt)
06/08/21 04:06 CST	0	

Thunderstorms from the evening of the seventh tracked across the Rolling Plains during the early morning hours of the eighth. After thunderstorms had moved east of the Rolling Plains, a heat burst occurred in the stratiform precipitation region near Paducah (Cottle County). A peak wind gust of 62 mph was measured by the Texas Tech University West Texas mesonet site near Paducah. Furthermore, the heat burst caused the temperature to rise from the upper 70s to the middle 90s.

(TX-Z021) PARMER

06/13/21 00:55 CST	0	High Wind (MAX 59 kt)
06/13/21 00:55 CST	0	

Thunderstorms rapidly decreased in intensity as they moved across far eastern New Mexico late on the 12th. By early on the 13th, thunderstorms had dissipated but light stratiform precipitation was moving across the extreme southwestern Texas Panhandle. A heat burst occurred in this area of precipitation at Friona (Parmer County) with a Texas Tech University West Texas mesonet site near Friona measuring a wind gust to 68 mph. Temperatures increased about 20 degrees with this heat burst.

SWISHER COUNTY --- VIGO PARK [34.65, -101.48]

06/25/21 17:48 CST	0	Thunderstorm Wind (MG 51 kt)
06/25/21 17:48 CST	0	Source: Mesonet

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

DICKENS COUNTY --- 3.0 NNW MC ADOO [33.77, -101.00]

06/25/21 18:38 CST	0	Thunderstorm Wind (MG 65 kt)
06/25/21 18:41 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near McAdoo measured severe wind gusts from 1838 CST through 1841 CST. A peak wind gust of 75 mph was measured at 1839 CST and 1840 CST.

SWISHER COUNTY --- VIGO PARK [34.65, -101.48]

06/25/21 23:47 CST	0	Thunderstorm Wind (MG 58 kt)
06/26/21 00:10 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Vigo Park measured intermittent severe wind gusts from 2347 CST on the 25th through 0010 CST on the 26th. A peak wind gust of 67 mph was measured at 0001 CST and 0007 CST.

BRISCOE COUNTY --- CAPROCK CANYONS STATE PARK [34.41, -101.07]

06/26/21 00:35 CST	0	Thunderstorm Wind (EG 52 kt)
06/26/21 00:35 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site at Caprock Canyons State Park measured a wind gust to 60 mph.

Strong instability developed ahead of a dryline under cyclonic flow aloft which produced isolated severe thunderstorms on the afternoon of the 25th. Hot and dry conditions became favorable for these storms to support strong downdrafts that produced severe wind gusts. Later in the evening, additional scattered thunderstorms developed in the extreme southwestern Texas Panhandle and tracked eastward. This second round of thunderstorms also generated severe wind gusts through early in the morning of the 26th.

YOAKUM COUNTY --- 11.8 SE PLAINS [33.08, -102.66]

06/26/21 16:39 CST	0	Hail (1.00 in)
06/26/21 16:39 CST	0	Source: Trained Spotter

A trained spotter reported quarter size hail in rural east-central Yoakum County.

COCHRAN COUNTY --- 1.0 E MORTON [33.72, -102.75]

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	06/26/21 17:59 CST		0	Hail (0.88 in)
	06/26/21 17:59 CST		0	Source: Trained Spotter
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COCHRAN COUNTY --- 1.0 ENE MORTON [33.73, -102.75]				
	06/26/21 18:05 CST		0	Thunderstorm Wind (MG 63 kt)
	06/26/21 18:05 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet near Morton measured a wind gust to 72 mph.				
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BAILEY COUNTY --- 3.7 S NEEDMORE [33.98, -102.74]				
	06/26/21 18:50 CST		0	Hail (2.00 in)
	06/26/21 18:50 CST		0	Source: Social Media
A video received via twitter depicted hail up to two inches in diameter near the Muleshoe Wildlife Refuge. No damage was reported.				
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BAILEY COUNTY --- 2.0 SSW MULESHOE [34.19, -102.74]				
	06/26/21 19:10 CST		0	Thunderstorm Wind (MG 53 kt)
	06/26/21 19:10 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Muleshoe measured a wind gust to 61 mph.				
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COCHRAN COUNTY --- 1.0 ENE MORTON [33.73, -102.75]				
	06/26/21 19:10 CST		0	Thunderstorm Wind (MG 66 kt)
	06/26/21 19:25 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Morton measured intermittent severe wind gusts from 1910 CST through 1925 CST. A peak wind gust of 76 mph was measured at 1910 CST.				
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LAMB COUNTY --- 1.0 NE AMHERST [34.03, -102.41]				
	06/26/21 19:34 CST		0	Thunderstorm Wind (MG 66 kt)
	06/26/21 19:43 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Amherst measured severe wind gusts from 1934 CST through 1943 CST. A peak wind gust of 76 mph was measured at 1941 CST.				
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HOCKLEY COUNTY --- 4.0 S LEVELLAND [33.52, -102.37]				
	06/26/21 19:59 CST		0	Thunderstorm Wind (MG 57 kt)
	06/26/21 20:10 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Levelland measured intermittent severe wind gusts from 1959 CST through 2010 CST. A peak wind gust of 66 mph was measured at 2001 CST.				
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HOCKLEY COUNTY --- 6.0 SSW ANTON [33.74, -102.21]				
	06/26/21 20:10 CST		0	Thunderstorm Wind (MG 56 kt)
	06/26/21 20:10 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Anton measured a wind gust to 64 mph.				
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HALE COUNTY --- ABERNATHY [33.83, -101.85]				
	06/26/21 20:22 CST		0	Hail (1.75 in)
	06/26/21 20:22 CST		0	Source: Public
A report from the public was received of hail up to golf ball size hail in Abernathy. No damage was reported.				
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HOCKLEY COUNTY --- 2.4 SSE PEP [33.79, -102.56]				
	06/26/21 20:24 CST		0	Thunderstorm Wind (EG 56 kt)
	06/26/21 20:24 CST		0	Source: Trained Spotter
A trained spotter reported several utility poles were blown down near the intersection of Farm to Market Roads 303 and 597 near Pep. The time of damage was estimated from radar.				

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HOCKLEY COUNTY --- 4.1 ENE OKLAHOMA FLAT [33.80, -102.33], 0.9 W WHITHARRAL [33.73, -102.35], 4.8 SSW WHITHARRAL [33.67, -102.38], 4.1 S WHITHARRAL [33.67, -102.32], 1.3 E WHITHARRAL [33.73, -102.31], 5.2 NNE WHITHARRAL [33.80, -102.31]				
	06/26/21 20:30 CST		0	Flood (due to Heavy Rain)
	06/26/21 23:30 CST		0	Source: Trained Spotter
A trained spotter reported that low-lying portions of US Highway 385 between Spain Road and Farm to Market Road 1294 were not passable due to water over the roadway.				
LUBBOCK COUNTY --- 3.0 WNW LUBBOCK [33.60, -101.90], (LBB)LUBBOCK INTL AR [33.67, -101.82]				
	06/26/21 20:45 CST		0	Thunderstorm Wind (MG 60 kt)
	06/26/21 20:46 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site on the campus of Texas Tech University measured a wind gust to 69 mph at 2045 CST. At 2046 CST, the Automated Surface Observing System at Lubbock Preston Smith International Airport measured a wind gust to 68 mph. Additionally, it was reported that a one foot diameter tree limb was snapped near the intersection of Slide Road and South Loop 289 in Lubbock.				
HALE COUNTY --- 1.0 S PLAINVIEW [34.19, -101.70]				
	06/26/21 20:58 CST		0	Thunderstorm Wind (MG 56 kt)
	06/26/21 21:02 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Plainview measured intermittent severe wind gusts from 2058 CST through 2102 CST. A peak wind gust of 64 mph was measured at 2102 CST.				
LYNN COUNTY --- 3.0 NNE TAHOKA [33.22, -101.76]				
	06/26/21 21:01 CST		0	Thunderstorm Wind (MG 56 kt)
	06/26/21 21:01 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Tahoka measured a wind gust to 64 mph.				
LUBBOCK COUNTY --- 2.0 NE SLATON [33.45, -101.63]				
	06/26/21 21:08 CST		0	Thunderstorm Wind (MG 66 kt)
	06/26/21 21:17 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Slaton measured severe wind gusts from 2108 CST through 2117 CST. A peak wind gust of 76 mph was measured at 2111 CST.				
GARZA COUNTY --- 1.0 NE POST [33.19, -101.37]				
	06/26/21 21:26 CST		0	Thunderstorm Wind (MG 54 kt)
	06/26/21 21:36 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Post measured intermittent severe gusts from 2126 CST through 2136 CST. A peak wind gust of 62 mph was measured at 2127 CST.				
CROSBY COUNTY --- 6.0 NW WHITE RIVER LAKE [33.52, -101.16]				
	06/26/21 21:45 CST		0	Thunderstorm Wind (MG 58 kt)
	06/26/21 21:51 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near White River Lake measured intermittent severe gusts from 2145 CST through 2151 CST. A peak wind gust of 67 mph was measured at 2145 CST.				
<p>The afternoon and evening of the 26th brought widespread severe storms to the South Plains. An approaching upper level short wave combined with residual outflow boundaries, a dryline, and strong instability and shear to create this widespread severe weather. Initial thunderstorm development occurred in the southwestern South Plains and adjacent Permian Basin and southeastern New Mexico along residual outflow boundary from previous day convection. Sufficient deep layer shear in the atmosphere caused these initial thunderstorms to rotate and become supercells. Numerous storm splits occurred with these storms generating heavy rainfall, damaging winds, and large hail. The largest hail observed was from a left-moving supercell at Muleshoe Wildlife Refuge (Bailey County). At the same time this was occurring, scattered thunderstorms developed in the higher terrain of eastern New Mexico. These storms slowly propagated their way into West Texas during the evening hours just as the initial thunderstorm development began to wane. The thunderstorms quickly grew upscale into a line of storms that swept across the South Plains and into the western Rolling Plains during the evening hours. This second round of thunderstorms produced widespread severe winds with wind gusts up to 76 mph.</p>				
HOCKLEY COUNTY --- 2.0 WSW OPDYKE [33.59, -102.30]				

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	06/27/21 19:54 CST		0	Tornado (EFU, L: 0.02 mi , W: 30 yd)
	06/27/21 19:54 CST		0	Source: Broadcast Media

Local broadcast media relayed a video of a brief landspout tornado just south of Opdyke West in Hockley County.

Intense moisture in the atmosphere combined with strong surface outflow boundaries to create a landspout tornado in Hockley County near Opdyke West. This landspout tornado caused no known damage as it remained over an open field.

GARZA COUNTY --- 4.1 NW JUSTICEBURG [33.08, -101.24], 12.2 ENE JUSTICEBURG [33.09, -101.00], 11.6 E JUSTICEBURG [33.00, -101.00], 2.6 SSW JUSTICEBURG [33.00, -101.22]

06/28/21 07:45 CST	0	Flash Flood (due to Heavy Rain)
06/28/21 09:45 CST	0	Source: Law Enforcement

Tropical like rain showers repeatedly trained over eastern Garza County on the morning of the 28th. The Lake Alan Henry Texas Tech University West Texas mesonet site measured 5.18 inches of rainfall in the span of mostly three hours. The Garza County sheriff's office reported multiple areas of water running over US Highway 84 between Post and Justiceburg. Additionally, some structures became inundated near Lake Alan Henry.

A tropical like atmosphere continued to remain over the region on the 28th which was able to produce showers that were efficient rainfall producers. On the morning of the 28th, heavy rain showers repeatedly trained over the eastern half of Garza County causing flash flooding in and around Lake Alan Henry (Garza County). The Texas Tech University West Texas mesonet site at Lake Alan Henry measured 5.18 inches of rainfall in a three hour period. The Garza County sheriff's office reported water running over US Highway 84 between Post and Justiceburg. Additionally, some structures became inundated near Lake Alan Henry.