

Storm Data and Unusual Weather Phenomena - July 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
TEXAS, South Panhandle				
PARMER COUNTY --- FARWELL [34.38, -103.03]				
	07/05/21 00:12 CST	0		Thunderstorm Wind (EG 50 kt)
	07/05/21 00:12 CST	0		Source: Law Enforcement
Carport blown into powerlines due to strong winds.				
COCHRAN COUNTY --- 1.0 ENE MORTON [33.73, -102.75]				
	07/05/21 02:10 CST	0		Thunderstorm Wind (MG 51 kt)
	07/05/21 02:10 CST	0		Source: Mesonet
A Texas Tech University West Texas mesonet site near Morton measured a wind gust to 59 mph.				
SWISHER COUNTY --- VIGO PARK [34.65, -101.48]				
	07/05/21 05:17 CST	0		Thunderstorm Wind (MG 52 kt)
	07/05/21 05:17 CST	0		Source: Mesonet
A Texas Tech University West Texas mesonet site near Vigo Park measured a wind gust to 60 mph.				
<p>A shortwave diving southward on the east side of an upper ridge led to scattered thunderstorm development on the evening of the fourth across southeastern Kansas into the Oklahoma Panhandle. This activity congealed into a line of storms that moved south through the western Texas Panhandle and across the western South Plains producing isolated strong to damaging wind gusts. The Parmer County Sheriff's department reported that a carport was blown into powerlines due to strong winds. A little farther south a Texas Tech University West Texas mesonet site near Morton measured a wind gust to 59 mph. Additional thunderstorms developed around sunrise near an outflow boundary across Swisher County which produced one additional severe wind gust to 60 mph per the Texas Tech University West Texas mesonet site near Vigo Park.</p>				
(TX-Z034) HOCKLEY				
	07/07/21 17:30 CST	0		Strong Wind (MAX 43 kt)
	07/07/21 17:32 CST	0		
Colliding outflow boundaries led to multi-cellular thunderstorm development. A very moist environment combined with the enhanced vorticity due to the colliding boundaries were favorable for landspout development.				
COCHRAN COUNTY --- 14.5 S WHITEFACE [33.39, -102.61]				
	07/11/21 13:10 CST	0		Heavy Rain
	07/11/21 14:10 CST	0		Source: Mesonet
The Texas Tech University West Texas mesonet near Sundown reported 1.57 inches of rain falling within 25 minutes, with 2.45 inches of rain within one hour.				
COCHRAN COUNTY --- 14.5 S WHITEFACE [33.39, -102.61]				
	07/11/21 13:25 CST	0		Thunderstorm Wind (MG 56 kt)
	07/11/21 13:30 CST	0		Source: Mesonet
A Texas Tech University West Texas mesonet site near Sundown measured severe wind gusts of 65 mph from 1325 through 1330 CST.				
<p>On the morning of the eleventh, a cold front became nearly stationary across the South Plains into the southern Rolling Plains. This boundary served as a forcing mechanism for thunderstorm development during the early afternoon. The environment was characterized by MUCAPEs between 2,000-3,000 J/Kg with bulk shear values of 35-40 kts which was sufficient for scattered severe thunderstorms. Above average moisture was also in place which allowed for very efficient rainfall production.</p>				
BRISCOE COUNTY --- 6.4 ESE SILVERTON [34.45, -101.19]				
	07/15/21 17:00 CST	0		Thunderstorm Wind (MG 51 kt)
	07/15/21 17:00 CST	0		Source: Mesonet
A Texas Tech University West Texas mesonet site near Silverton measured a wind gust to 59 mph.				
BRISCOE COUNTY --- 0.6 E CAPROCK CANYONS STATE PARK [34.41, -101.06]				
	07/15/21 17:09 CST	0		Thunderstorm Wind (MG 61 kt)
	07/15/21 17:09 CST	0		Source: Mesonet

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A Texas Tech University West Texas mesonet site near Caprock Canyon State Park measured a wind gust to 70 mph.				
LUBBOCK COUNTY --- 5.8 SSW WOLFFORTH [33.42, -102.05]				
	07/15/21 19:10 CST	0		Thunderstorm Wind (MG 52 kt)
	07/15/21 19:10 CST	0		Source: Mesonet
A Texas Tech University West Texas mesonet site near Wolfforth measured a wind gust to 60 mph.				
HALE COUNTY --- 8.8 SE SETH WARD [34.13, -101.57]				
	07/15/21 20:01 CST	0		Heavy Rain
	07/15/21 22:01 CST	0		Source: Mesonet
A Texas Tech University West Texas mesonet site near Aiken measured 4.72 inches of rain between 2001 CST and 2201 CST with a peak one hour rainfall rate of 3.43 inches from 2031 CST to 2131 CST.				
TERRY COUNTY --- 5.1 SSE NEEDMORE [33.26, -102.29], 5.3 S MEADOW [33.25, -102.22], 2.2 SE MEADOW [33.31, -102.17], 2.5 E NEEDMORE [33.32, -102.29]				
	07/15/21 20:26 CST	0		Flood (due to Heavy Rain)
	07/15/21 22:26 CST	0		Source: Law Enforcement
A nearly stationary thunderstorm led to brief heavy rainfall with additional lighter showers training over the same location. Terry County Sheriff's Office reported standing water on the southbound lanes of U.S. Highway 62/82 approximately 4 miles south of Meadow.				
HALE COUNTY --- 0.9 NE (PVW)HALE CO ARPT [34.18, -101.71]				
	07/15/21 20:50 CST	0		Heavy Rain
	07/15/21 21:10 CST	0		Source: Mesonet
A Texas Tech University West Texas mesonet site near Plainview measured 1.15 inches of rain between 2050 CST and 2110 CST. The Plainview police department reported that this led to numerous nuisance flooding calls within the city.				
FLOYD COUNTY --- 1.5 NNW MUNCY [34.09, -101.41]				
	07/15/21 21:15 CST	0		Thunderstorm Wind (EG 56 kt)
	07/15/21 21:15 CST	0		Source: Trained Spotter
A trained spotter reported a few utility poles were blown down in addition to a fence post being snapped. A field of grass and sunflowers were also bent in an east to northeast direction which was in line with storm motion. The time of damage was estimated from radar.				
BRISCOE COUNTY --- 4.7 WNW CAPROCK CANYONS STATE PARK [34.44, -101.15], 5.5 WNW EDGIN [34.36, -101.16], 1.7 SW QUITAQUE [34.35, -101.07], 0.7 N CAPROCK CANYONS STATE PARK [34.42, -101.07]				
	07/17/21 18:24 CST	0		Flash Flood (due to Heavy Rain)
	07/17/21 20:24 CST	0		Source: Emergency Manager
A slow moving thunderstorm led to very heavy rainfall near Quitaque. The Briscoe County emergency manager reported that water was rapidly flowing across Highway 86 approximately 3 miles west of Quitaque due to this heavy rainfall.				
An upper level trough moved across the region during the afternoon of the 15th. This trough was also accompanied by a surface cold front that led to scattered thunderstorm development during the afternoon and evening hours. Ample atmospheric moisture combined with weak wind shear lead to slow moving efficient rain producers which led to several heavy rain reports. Additionally, very hot surface temperatures were conducive to damaging downburst winds.				
PARMER COUNTY --- 0.6 W FRIONA BENDER ARPK [34.65, -102.69]				
	07/17/21 19:23 CST	0		Thunderstorm Wind (MG 56 kt)
	07/17/21 19:43 CST	0		Source: Mesonet
A Texas Tech University West Texas mesonet site near Friona measured intermittent severe wind gusts from 1923 CST to 1943 CST. A peak wind gust of 64 mph was measured at 1942 CST.				
PARMER COUNTY --- 0.6 E BOVINA [34.52, -102.89]				
	07/17/21 19:41 CST	0		Thunderstorm Wind (EG 52 kt)
	07/17/21 19:41 CST	0		Source: Fire Department/Rescue
Fire department dispatcher reported that a large tree was blown down.				

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A complex of thunderstorms developed off of the higher terrain of northeastern New Mexico and rotated to the southeast around an upper level ridge on the afternoon and evening of the 17th. This storm activity moved southward through the western Texas Panhandle making it all the way into the extreme southwestern Texas Panhandle. As the storms moved into the extreme southwestern Texas Panhandle, they maintained their strength producing severe wind gusts at Friona (Parmer County).

(TX-Z035) LUBBOCK

	07/18/21 16:05 CST	0	Strong Wind (MAX 43 kt)
	07/18/21 16:22 CST	0	

Isolated to scattered thunderstorms developed on the afternoon of the 18th along remnant outflow boundaries from thunderstorm convection the previous evening. Strong low level shear along these boundaries and near thunderstorms were able to be stretched into landspout tornadoes. A couple of brief landspout tornadoes were observed in Lubbock County.

CHILDRESS COUNTY --- 18.3 W TELL [34.39, -100.70]

	07/25/21 14:25 CST	0	Thunderstorm Wind (EG 56 kt)
	07/25/21 14:25 CST	0	Source: COOP Observer

Observer reported that strong straight line winds destroyed their carport, blew the doors off of a barn, and broke off several large tree limbs on their property.

HALE COUNTY --- 1.3 WSW PLAINVIEW [34.19, -101.72]

	07/25/21 16:17 CST	0	Thunderstorm Wind (EG 51 kt)
	07/25/21 16:17 CST	0	Source: Social Media

Photo from social media showed a large pine tree uprooted from strong straight line winds.

LAMB COUNTY --- 4.5 NNE HART CAMP [34.09, -102.12]

	07/25/21 17:36 CST	0	Thunderstorm Wind (MG 58 kt)
	07/25/21 17:37 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Olton measured severe wind gusts from 1736 CST to 1737 CST. A peak wind gust of 67 mph was measured at 1736 CST.

A plume of monsoonal moisture continued to stream overhead with a general weakness in the upper level flow of the atmosphere. Strong heating on the afternoon of the 25th allowed isolated to scattered thunderstorms to develop across the entire region. Instability values on the order of 1000 J/kg with the strong heating were able to generate storms that produced isolated wind gusts and damage.