

## Storm Data and Unusual Weather Phenomena - June 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>OKLAHOMA, Panhandle</b>				
<b>CIMARRON COUNTY --- KENTON [36.90, -102.97]</b>				
	06/12/21 20:30 CST	0		Thunderstorm Wind (EG 60 kt)
	06/12/21 20:30 CST	0		Source: Emergency Manager
Some tree limbs were snapped and a metal roof was peeled back slightly on local business.				
<b>CIMARRON COUNTY --- 3.0 SSE BOISE CITY [36.69, -102.50]</b>				
	06/12/21 21:30 CST	0		Thunderstorm Wind (MG 68 kt)
	06/12/21 21:30 CST	0		Source: Mesonet
<b>CIMARRON COUNTY --- 0.6 E BOISE CITY [36.73, -102.51]</b>				
	06/12/21 21:34 CST	0		Hail (1.00 in)
	06/12/21 21:34 CST	0		Source: Trained Spotter
<b>CIMARRON COUNTY --- 3.0 SSE BOISE CITY [36.69, -102.50]</b>				
	06/12/21 21:35 CST	0		Thunderstorm Wind (MG 68 kt)
	06/12/21 21:40 CST	0		Source: Mesonet
Two different wind gusts 5 mins apart, highest was 78 mph, were measured by the mesonet station located in Boise City. At the same time reports of cottonwood trees being ripped apart in Boise City came in from the public.				
<b>CIMARRON COUNTY --- FELT [36.57, -102.78]</b>				
	06/12/21 21:35 CST	0		Thunderstorm Wind (EG 60 kt)
	06/12/21 21:35 CST	0		Source: Emergency Manager
Several large tree limbs broken and on the ground.				
<b>CIMARRON COUNTY --- GRIGGS [36.60, -102.12]</b>				
	06/12/21 22:30 CST	0		Thunderstorm Wind (EG 61 kt)
	06/12/21 22:30 CST	0		Source: Emergency Manager
Three limbs snapped and shed was shifted off its foundation and relocated.				
<p><b>A weak upper level disturbance moved along the northern side of an upper level ridge centered across the Desert Southwest generating thunderstorms over the mountains of Colorado and New Mexico. These storms slowly moved east into the Panhandles and encountered an environment with weak to moderate wind shear but extreme instability and high moisture which allowed these storms to thrive and increase in severity and organization as they tracked east. The main impact from the storms were from damaging winds as they crossed out of New Mexico and Colorado into the Panhandles, but some hail was also reported. The most significant damage occurred with a storm that strongly bowed as it moved southeast across Cimarron County Oklahoma. This storm produced wind speeds likely around 90 mph in some locations based on damage and were measured just shy of 80 mph near Boise City, OK at a mesonet site. The storm produced widespread wind damage from Kenton to Boise city and southeast to Griggs, OK. Widespread damage to trees and powerlines occurred and isolated significant roof damage occurred as well, including the Boise City High School auditorium, which lost part of it's roof completely. Fifty-five power poles were reported damaged across Cimarron County with around 1600 customers without power during the peak outage after the storms. Power was out until well into the afternoon hours on Sunday for some locations. This storm continued to grow upscale and eventually merged across the northwestern Texas Panhandle with another broken line of storms that had crossed the New Mexico border near I-40, also producing severe wind gusts as they entered the Texas Panhandle. This storm complex tracked east-southeast and continued to produce severe wind gusts and heavy rainfall, especially across the northern and central Texas Panhandle. The storms finally weakened early Sunday morning as instability decreased.</b></p>				
<b>BEAVER COUNTY --- 2.8 SSE GRAY [36.51, -100.81], 2.1 SSE GRAY [36.52, -100.81]</b>				
	06/24/21 20:18 CST	0		Thunderstorm Wind (EG 61 kt)
	06/24/21 20:18 CST	0		Source: Law Enforcement
Semi blown over on U.S. HWY 83, along with trees blown down closer to the OK/TX state line.				
<b>BEAVER COUNTY --- 4.2 S BALKO [36.57, -100.68]</b>				
	06/24/21 20:24 CST	1K		Thunderstorm Wind (EG 61 kt)
	06/24/21 20:24 CST	0		Source: Public

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One power pole blown down by thunderstorm winds.				
<b>BEAVER COUNTY --- 2.8 E BRYANS CORNER [36.62, -100.77], 6.7 E SLAPOUT [36.62, -100.00]</b>				
	06/24/21 20:35 CST		1.80M	Thunderstorm Wind (EG 70 kt)
	06/24/21 20:35 CST		0	Source: Utility Company
Power company reports 46 power transmission poles taken out or damaged by thunderstorm winds.				
Thunderstorms increased in coverage and intensity during the evening hours as more organized activity moved east out of New Mexico and developed into a broken line from I-40 near Endee, NM northeast to around Texline, OK. The northern portion of the line encountered a more favorable environment for strong to severe storms with potential for rotation from near Palo Duro Reservoir to Perryton. Large hail was reported north of Perryton up to the size of ping pong balls which combined with strong winds took out some windows on a farmhouse along with other damage around the property. As this storm moved northeast it created winds estimated 85-90 mph since it took out several power distribution poles from Balko to Elmwood, OK leaving much of Beaver County without power. This storm quickly weakened not long after causing the power loss.				
<b>TEXAS COUNTY --- 10.5 WNW HOUGH [36.92, -101.75]</b>				
	06/25/21 16:30 CST		0	Thunderstorm Wind (MG 51 kt)
	06/25/21 16:30 CST		0	Source: Mesonet
<b>TEXAS COUNTY --- 10.5 WNW HOUGH [36.92, -101.75]</b>				
	06/25/21 16:35 CST		0	Thunderstorm Wind (MG 54 kt)
	06/25/21 16:35 CST		0	Source: Mesonet
<b>TEXAS COUNTY --- 4.7 NNE OPTIMA [36.81, -101.31]</b>				
	06/25/21 17:05 CST		20K	Thunderstorm Wind (EG 65 kt)
	06/25/21 17:05 CST		0	Source: Emergency Manager
Metal grain bins damaged.				
<b>TEXAS COUNTY --- 5.3 NE OPTIMA [36.81, -101.29]</b>				
	06/25/21 17:10 CST		10K	Thunderstorm Wind (EG 65 kt)
	06/25/21 17:10 CST		0	Source: Emergency Manager
Two 18 wheeler trucks were blown over between Optima and Hooker.				
<b>TEXAS COUNTY --- 4.4 ENE HOOKER [36.90, -101.15]</b>				
	06/25/21 17:18 CST		0	Thunderstorm Wind (EG 65 kt)
	06/25/21 17:18 CST		0	Source: Emergency Manager
Emergency management reported 18 wheeler trucks blown off the road SW of Tyrone.				
<b>TEXAS COUNTY --- 0.9 SE HOOKER [36.86, -101.21]</b>				
	06/25/21 17:21 CST		0	Thunderstorm Wind (MG 74 kt)
	06/25/21 17:21 CST		0	Source: Mesonet
<b>BEAVER COUNTY --- 1.5 SSW BEAVER [36.80, -100.53]</b>				
	06/25/21 18:20 CST		0	Thunderstorm Wind (MG 51 kt)
	06/25/21 18:20 CST		0	Source: Mesonet
Thunderstorms formed along an old outflow boundary associated with previous day's activity from Endee, NM to Amarillo, TX and along Highway 60 to Canadian, TX. Additional thunderstorms formed in SE CO and eventually traveled along the northern edge of the OK Panhandle from west to east as an upper level trough and cold front approached. The environment was primed for damaging winds and large hail given marginal wind shear but high instability in the area. Automated weather equipment located throughout both the OK and TX Panhandle measured wind gusts from these storms well over 60 mph. The highest wind gust measured was 85 mph at the mesonet located near Hooker, Oklahoma. Some thunderstorms wind damage was also reported especially in Texas County, Oklahoma. The largest hail stone reported was 1.5 inches in diameter near Lipscomb, TX. One of the thunderstorms produced a brief tornado that took out a barn with an RV inside near McLean, TX.				

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<b>(TX-Z016) DEAF SMITH</b>				
	06/01/21 00:00 CST		0	Drought
	06/30/21 23:59 CST		0	

With ranchers having to bring in supplemental feed since last year, conditions started to improve toward the end of June especially for Deaf Smith County. Additional rain fall through the month led to drought by one category with a noticeable green-up due to new vegetation growth across the area. The far southern part of the county received 3 to 5 inches of rainfall which was above normal for June.

<b>DEAF SMITH COUNTY --- 6.3 S HEREFORD MUNI ARPT [34.76, -102.30]</b>				
	06/06/21 20:39 CST		0	Hail (0.91 in)
	06/06/21 20:39 CST		0	Source: Insurance Company

Measurement collected as part of Institute for Business Home Safety (IBHS) Hail Study. Field researcher came across and measured the hail around 2116 LST. The time that the hail fell was estimated by radar.

Showers and thunderstorms in eastern New Mexico sent an outflow boundary rushing into the southwest Texas Panhandle. This boundary collided with a more humid air mass sparking thunderstorms in the far eastern Deaf Smith County that extended from Hereford, Texas down to near Springlake, Texas. Instability was sufficient to support hail and one hail report was received from a field researcher in the area after the storm passed.

<b>RANDALL COUNTY --- 3.0 NNE UMBARGER [34.99, -102.08]</b>				
	06/07/21 21:07 CST		0	Thunderstorm Wind (MG 52 kt)
	06/07/21 21:07 CST		0	Source: Mesonet

The 60 mph wind gust occurred during light rain.

Scattered showers and thunderstorms moved into the southwestern Texas Panhandle from New Mexico. These showers and thunderstorms didn't produce much hail or rain. However, the environment was favorable for producing strong thunderstorm wind gusts due to the dry air below the storm bases that promoted strong outflow winds due to evaporative cooling processes. A mesonet near Umbarger, Texas gusted to 60 mph with the storms, however no damage was reported.

<b>SHERMAN COUNTY --- 2.3 WNW MALLETT [36.36, -102.14]</b>				
	06/12/21 22:22 CST		0	Thunderstorm Wind (MG 58 kt)
	06/12/21 22:22 CST		0	Source: Mesonet

<b>HARTLEY COUNTY --- (DHT)DALHART MUNI AR [36.02, -102.55]</b>				
	06/12/21 22:35 CST		0	Thunderstorm Wind (MG 55 kt)
	06/12/21 22:57 CST		0	Source: ASOS

At least 4 different wind gusts exceeding 60 mph, the highest being 63 mph, were registered in the span of 22 minutes.

<b>DALLAM COUNTY --- 1.0 WNW DALHART [36.07, -102.54], 1.2 E DALHART [36.07, -102.50], 2.1 SE DALHART [36.05, -102.50], 1.9 SSW DALHART [36.05, -102.54]</b>				
	06/12/21 23:10 CST		0	Flash Flood (due to Heavy Rain)
	06/12/21 23:50 CST		0	Source: COOP Observer

Water reported over curb with a few inches of water covering all the lanes of HWY 87.

<b>MOORE COUNTY --- 1.3 WSW CACTUS [36.04, -102.02]</b>				
	06/12/21 23:23 CST		0	Thunderstorm Wind (MG 65 kt)
	06/12/21 23:23 CST		0	Source: Trained Spotter

Spotter had measured the thunderstorm wind gust with a handheld wind meter.

<b>MOORE COUNTY --- 0.6 W CACTUS [36.05, -102.01]</b>				
	06/12/21 23:28 CST		0	Thunderstorm Wind (EG 70 kt)
	06/12/21 23:28 CST		0	Source: Public

Tree limbs, 3 inches in diameter, were blown down along with power poles blown over in Cactus, TX.

<b>MOORE COUNTY --- DUMAS MUNI ARPT [35.85, -102.02]</b>				
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	06/12/21 23:35 CST		0	Thunderstorm Wind (MG 53 kt)
	06/12/21 23:35 CST		0	Source: AWOS
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<b>DEAF SMITH COUNTY --- 9.5 WSW WALCOTT [34.89, -102.99]</b>				
	06/12/21 23:50 CST		0	Thunderstorm Wind (MG 53 kt)
	06/12/21 23:50 CST		0	Source: Mesonet
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<b>HUTCHINSON COUNTY --- HUTCHINSON CO ARPT [35.70, -101.40]</b>				
	06/13/21 00:08 CST		0	Thunderstorm Wind (MG 58 kt)
	06/13/21 00:08 CST		0	Source: ASOS
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<b>POTTER COUNTY --- 14.6 ENE VALLE DE ORO [35.53, -101.87]</b>				
	06/13/21 00:13 CST		0	Thunderstorm Wind (EG 70 kt)
	06/13/21 00:13 CST		0	Source: Public
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Report received of power poles blown down.				
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<b>POTTER COUNTY --- 19.6 N (AMA)AMARILLO INTL A [35.50, -101.67]</b>				
	06/13/21 00:17 CST		0	Thunderstorm Wind (EG 53 kt)
	06/13/21 00:17 CST		0	Source: Trained Spotter
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Spotter measured wind gust using handheld wind meter.				
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<b>POTTER COUNTY --- 4.2 N AMARILLO [35.26, -101.83]</b>				
	06/13/21 00:29 CST		0	Thunderstorm Wind (EG 70 kt)
	06/13/21 00:29 CST		0	Source: Public
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Report of shingles torn off of roof.				
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<b>RANDALL COUNTY --- 4.8 S AMARILLO [35.13, -101.82]</b>				
	06/13/21 01:13 CST		0	Thunderstorm Wind (EG 61 kt)
	06/13/21 01:13 CST		0	Source: Public
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Approximately 6 inch diameter tree down near Zita and along loop 335.				
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<p><b>A weak upper level disturbance moved along the northern side of an upper level ridge centered across the Desert Southwest generating thunderstorms over the mountains of Colorado and New Mexico. These storms slowly moved east into the Panhandles and encountered an environment with weak to moderate wind shear but extreme instability and high moisture which allowed these storms to thrive and increase in severity and organization as they tracked east. The main impact from the storms were from damaging winds as they crossed out of New Mexico and Colorado into the Panhandles, but some hail was also reported. The most significant damage occurred with a storm that strongly bowed as it moved southeast across Cimarron County Oklahoma. This storm produced wind speeds likely around 90 mph in some locations based on damage and were measured just shy of 80 mph near Boise City, OK at a mesonet site. The storm produced widespread wind damage from Kenton to Boise city and southeast to Griggs, OK. Widespread damage to trees and powerlines occurred and isolated significant roof damage occurred as well, including the Boise City High School auditorium, which lost part of it's roof completely. Fifty-five power poles were reported damaged across Cimarron County with around 1600 customers without power during the peak outage after the storms. Power was out until well into the afternoon hours on Sunday for some locations. This storm continued to grow upscale and eventually merged across the northwestern Texas Panhandle with another broken line of storms that had crossed the New Mexico border near I-40, also producing severe wind gusts as they entered the Texas Panhandle. This storm complex tracked east-southeast and continued to produce severe wind gusts and heavy rainfall, especially across the northern and central Texas Panhandle. The storm complex finally weakened early Sunday morning as instability decreased.</b></p>				
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<b>HANSFORD COUNTY --- 11.1 N SPEARMAN [36.36, -101.18]</b>				
	06/24/21 19:42 CST		0	Thunderstorm Wind (MG 61 kt)
	06/24/21 19:42 CST		0	Source: Mesonet
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<b>OCHILTREE COUNTY --- 3.5 N PERRYTON [36.45, -100.80]</b>				
	06/24/21 20:15 CST		30K	Thunderstorm Wind (EG 56 kt)
	06/24/21 20:15 CST		0	Source: Public

Sheriff called and reported that a barn had been destroyed about 4 miles north of Perryton. There were powerlines that had been snapped, and trees down.

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<b>OCHILTREE COUNTY --- 4.9 N TWICHELL [36.50, -100.71]</b>				
	06/24/21 20:25 CST		10K	Hail (1.50 in)
	06/24/21 20:25 CST		0	Source: Public
<p>Person reported broken windows to house from large hail blowing in from the west. The largest hail was ping pong ball size with lots of quarters present. Vehicles received dents and tree limbs up to 4 inches in diameter were blown/knocked down.</p>				
<b>RANDALL COUNTY --- 3.0 NNE UMBARGER [34.99, -102.08]</b>				
	06/24/21 20:28 CST		0	Thunderstorm Wind (MG 50 kt)
	06/24/21 20:28 CST		0	Source: Mesonet
<p>Thunderstorms increased in coverage and intensity during the evening hours as more organized activity moved east out of New Mexico and developed into a broken line from I-40 near Endee, NM northeast to around Texline, OK. The northern portion of the line encountered a more favorable environment for strong to severe storms with potential for rotation from near Palo Duro Reservoir to Perryton. Large hail was reported north of Perryton up to the size of ping pong balls which combined with strong winds took out some windows on a farmhouse along with other damage around the property. As this storm moved northeast it created winds estimated 85-90 mph since it took out several power distribution poles from Balko to Elmwood, OK leaving much of Beaver County without power. This storm quickly weakened not long after causing the power loss.</p>				
<b>POTTER COUNTY --- 10.3 ESE VALLE DE ORO [35.42, -101.93]</b>				
	06/25/21 15:30 CST		0	Thunderstorm Wind (MG 52 kt)
	06/25/21 15:30 CST		0	Source: Mesonet
<b>MOORE COUNTY --- 2.8 E LAKE MEREDITH [35.65, -101.62]</b>				
	06/25/21 16:03 CST		0	Thunderstorm Wind (MG 50 kt)
	06/25/21 16:03 CST		0	Source: Mesonet
<b>HEMPHILL COUNTY --- 5.8 ENE CANADIAN [35.92, -100.28]</b>				
	06/25/21 16:09 CST		0	Thunderstorm Wind (MG 50 kt)
	06/25/21 16:09 CST		0	Source: Mesonet
<b>HUTCHINSON COUNTY --- HUTCHINSON CO ARPT [35.70, -101.40]</b>				
	06/25/21 16:26 CST		0	Thunderstorm Wind (MG 60 kt)
	06/25/21 16:26 CST		0	Source: ASOS
<b>LIPSCOMB COUNTY --- 3.5 S LIPSCOMB [36.18, -100.27]</b>				
	06/25/21 17:27 CST		0	Hail (1.50 in)
	06/25/21 17:27 CST		0	Source: Law Enforcement
<p>Hail stones measuring 1 to 1.5 inches were reported approximately 4 miles south of Lipscomb.</p>				
<b>GRAY COUNTY --- 9.6 W ALANREED [35.23, -100.90]</b>				
	06/25/21 17:39 CST		0	Thunderstorm Wind (MG 63 kt)
	06/25/21 17:39 CST		0	Source: Mesonet
<b>GRAY COUNTY --- 4.4 NE ALANREED [35.26, -100.67], 2.5 NW MC LEAN [35.25, -100.63]</b>				
	06/25/21 18:01 CST		0.10M	Tornado (EF1, L: 2.20 mi , W: 40 yd)
	06/25/21 18:06 CST		0	Source: NWS Storm Survey
<p>The tornado touched down in an open field initially. It destroyed a barn and snapped tree limbs along its path as it moved east-southeast across ranchland. A small RV camper that was in the barn was rolled onto its side and was a total loss as well.</p>				
<b>HEMPHILL COUNTY --- 5.6 E CANADIAN [35.91, -100.28]</b>				
	06/25/21 18:02 CST		0	Thunderstorm Wind (MG 63 kt)
	06/25/21 18:02 CST		0	Source: Mesonet
<b>GRAY COUNTY --- 1.1 E MC LEAN [35.23, -100.58]</b>				
	06/25/21 18:25 CST		0	Thunderstorm Wind (MG 56 kt)
	06/25/21 18:25 CST		0	Source: Mesonet

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<hr/>				
<b>DONLEY COUNTY --- 0.6 E CLARENDON [34.93, -100.89]</b>	06/25/21 20:36 CST		0	Hail (2.00 in)
	06/25/21 20:36 CST		0	Source: Storm Chaser
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<b>GRAY COUNTY --- 1.1 E MC LEAN [35.23, -100.58]</b>	06/25/21 22:35 CST		0	Thunderstorm Wind (MG 76 kt)
	06/25/21 22:35 CST		0	Source: Mesonet
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<b>GRAY COUNTY --- 9.7 W ALANREED [35.24, -100.90]</b>	06/25/21 22:49 CST		0	Thunderstorm Wind (MG 55 kt)
	06/25/21 22:49 CST		0	Source: Mesonet

Thunderstorms formed along an old outflow boundary associated with previous day's activity from Endee, NM to Amarillo, TX and along Highway 60 to Canadian, TX. Additional thunderstorms formed in SE CO and eventually traveled along the northern edge of the OK Panhandle from west to east as an upper level trough and cold front approached. The environment was primed for damaging winds and large hail given marginal wind shear but high instability in the area. Automated weather equipment located throughout both the OK and TX Panhandle measured wind gusts from these storms well over 60 mph. The highest wind gust measured was 85 mph at the mesonet located near Hooker, Oklahoma. Some thunderstorms wind damage was also reported especially in Texas County, Oklahoma. The largest hail stone reported was 1.5 inches in diameter near Lipscomb, TX. One of the thunderstorms produced a brief EF1 tornado that took out a barn with an RV inside near McLean, TX.

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[NWS Amarillo storm survey picture of an RV rolled inside destroyed pole barn.](#)