

Storm Data and Unusual Weather Phenomena - August 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
OKLAHOMA, Panhandle				
TEXAS COUNTY --- 10.5 WNW HOUGH [36.92, -101.75]				
	08/07/21 03:35 CST	0		Thunderstorm Wind (MG 52 kt)
	08/07/21 03:35 CST	0		Source: Mesonet
CIMARRON COUNTY --- 2.1 NNE STURGIS [36.91, -102.04]				
	08/07/21 16:35 CST	0		Hail (0.88 in)
	08/07/21 16:35 CST	0		Source: Emergency Manager
<p>The county Emergency Manager ran into accumulating hail that was a couple inches deep and completely covering the ground. The largest hail stone was estimated to be around the size of nickels. However, this was from inside the car.</p> <p>A strong upper level disturbance moved over the Oklahoma and Texas Panhandles causing thunderstorms to form. These thunderstorms moved from west to east with the greatest coverage occurring across the northern combined Panhandles. Moderate instability and weak wind shear were sufficient to support hail upwards of an inch and few severe wind gusts up to 60-70 mph in a few storms.</p>				
BEAVER COUNTY --- 0.7 S ELMWOOD [36.61, -100.52]				
	08/21/21 16:10 CST	0		Hail (1.00 in)
	08/21/21 16:10 CST	0		Source: Emergency Manager
BEAVER COUNTY --- 2.8 N ELMWOOD [36.66, -100.52]				
	08/21/21 16:25 CST	0		Hail (1.50 in)
	08/21/21 16:25 CST	0		Source: Emergency Manager
BEAVER COUNTY --- 1.5 NNW BOYD [36.72, -100.83]				
	08/21/21 16:55 CST	0		Hail (1.75 in)
	08/21/21 16:55 CST	0		Source: Emergency Manager
<p>A stationary front extended from a low near Amarillo east northeast to just south of Canadian, TX in the afternoon. The lower levels of the atmosphere were moistening from southeast surface winds into the stationary front and the edge of the southwest United States monsoon moisture plume was also present across the area. Weak to moderate instability was found along and behind the front along with weak wind shear which was greatest in the far northern Panhandles and into Kansas. Thunderstorms initially developed near Amarillo around 2 pm as a weak upper level disturbance passed through the area. These storms were slow-moving and they were interacting with outflow boundaries. Some severe storms trained along and outflow boundary collision across the western side of Amarillo causing flooding. In addition, a couple of storms with large hail (up to 2 inches in diameter) moved northward across Lipscomb and Beaver Counties during the late afternoon/early evening where the better dynamics and wind shear were located.</p>				
TEXAS, North Panhandle				
HARTLEY COUNTY --- 8.1 ESE DALHART [36.04, -102.38]				
	08/07/21 17:52 CST	0		Hail (0.88 in)
	08/07/21 17:52 CST	0		Source: Trained Spotter
<p>Wind driven hail chipped the windshield of the vehicle the storm chaser was driving while heading west on FM 281.</p>				
POTTER COUNTY --- (AMA)AMARILLO INTL A [35.22, -101.72]				
	08/07/21 18:27 CST	0		Thunderstorm Wind (MG 50 kt)
	08/07/21 18:27 CST	0		Source: ASOS
OCHILTREE COUNTY --- WAKA [36.28, -101.05]				
	08/07/21 20:23 CST	0		Hail (1.00 in)
	08/07/21 20:23 CST	0		Source: Trained Spotter
HUTCHINSON COUNTY --- 5.6 E BORGER [35.67, -101.28]				

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	08/07/21 21:39 CST		0	Thunderstorm Wind (MG 61 kt)
	08/07/21 21:39 CST		0	Source: Mesonet

Also had a 66 mph wind gust measured at this mesonet at 2136 lst as well.

ROBERTS COUNTY --- 11.3 W CODMAN [35.63, -100.95]

08/07/21 22:30 CST	0	Hail (1.00 in)
08/07/21 22:30 CST	0	Source: Public

This report was received over social media. The hail lasted about 20 seconds.

A strong upper level disturbance moved over the Oklahoma and Texas Panhandles causing thunderstorms to form. These thunderstorms moved from west to east with the greatest coverage occurring across the northern combined Panhandles. Moderate instability and weak wind shear were sufficient to support hail upwards of an inch and few severe wind gusts up to 60-70 mph in a few storms.

ARMSTRONG COUNTY --- 15.2 SSE GOODNIGHT [34.82, -101.12]

08/12/21 16:38 CST	0	Thunderstorm Wind (MG 54 kt)
08/12/21 16:38 CST	0	Source: Mesonet

On the evening of the 12th of August, scattered thunderstorms impacted the southern Texas Panhandle. The atmosphere was slightly unstable with weak winds aloft and therefore minimal wind shear, but one thunderstorm to pulsed up and collapse causing an isolated severe wind gust 15 miles west-southwest of Claude, TX.

ROBERTS COUNTY --- 16.3 W CODMAN [35.66, -101.04]

08/16/21 12:08 CST	0	Thunderstorm Wind (EG 52 kt)
08/16/21 12:08 CST	0	Source: Trained Spotter

Spotter estimates a 60 mph gust with trees bending nearly 90 degrees.

GRAY COUNTY --- PAMPA LEFORS ARPT [35.62, -101.00]

08/16/21 12:57 CST	0	Thunderstorm Wind (MG 50 kt)
08/16/21 12:57 CST	0	Source: AWOS

GRAY COUNTY --- 2.2 NE KINGS MILL [35.50, -101.04]

08/16/21 13:37 CST	0	Hail (1.00 in)
08/16/21 13:37 CST	0	Source: Law Enforcement

The local Sheriff's office reported the hail, along with heavy rain in the Kingsmill area.

CARSON COUNTY --- 0.6 E WHITE DEER [35.43, -101.17]

08/16/21 13:58 CST	0	Thunderstorm Wind (EG 61 kt)
08/16/21 13:58 CST	0	Source: Trained Spotter

Spotter reported a large air conditioning unit blown off of the White Deer Elementary School. The AC unit was mounted on the roof.

GRAY COUNTY --- 7.6 S KINGS MILL [35.37, -101.06]

08/16/21 14:03 CST	0	Thunderstorm Wind (EG 61 kt)
08/16/21 14:03 CST	0	Source: Trained Spotter

Spotter reported large trees limbs blown down that were 1 to 3 inches in diameter.

GRAY COUNTY --- 1.2 NW KINGS MILL [35.49, -101.09], 2.6 ENE KINGS MILL [35.49, -101.03], 2.5 E KINGS MILL [35.47, -101.03], 1.0 WSW KINGS MILL [35.47, -101.09]

08/16/21 14:30 CST	0	Flood (due to Heavy Rain)
08/16/21 14:50 CST	0	Source: Law Enforcement

Flooding started around 2:30 with water over the road at least 4 inches deep in some areas.

An upper level low was centered in central Oklahoma within a trough that extended from the Great Lakes to West Texas. The trough combined with abundant monsoonal moisture, modest instability, and wind shear led to scattered strong to severe thunderstorms that developed in the Texas Panhandle during the afternoon hours. Some of these storms produced hail up to 1 inch in diameter and some minor nuisance flooding. However, strong to at times damaging winds were the main impact from these storms which

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damaged trees and tops of a few buildings.				
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POTTER COUNTY --- 6.5 NNW AMARILLO [35.28, -101.87], 6.0 NNE AMARILLO [35.28, -101.80], 3.6 NNE AMARILLO [35.25, -101.80], 4.4 NW AMARILLO [35.25, -101.87]				
	08/21/21 14:34 CST		20K	Flood (due to Heavy Rain)
	08/21/21 14:34 CST		0	Source: Trained Spotter
Trained spotter had reported street/road flooding, along with road closures and vehicles stranded.				
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RANDALL COUNTY --- 8.9 WNW TIMBERCREEK CANYON [35.11, -101.96]				
	08/21/21 14:44 CST		0	Hail (1.25 in)
	08/21/21 14:44 CST		0	Source: Trained Spotter
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HUTCHINSON COUNTY --- 5.5 WSW BORGER [35.64, -101.47]				
	08/21/21 14:50 CST		0	Hail (0.88 in)
	08/21/21 14:50 CST		0	Source: Trained Spotter
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RANDALL COUNTY --- 6.3 WSW AMARILLO [35.16, -101.92]				
	08/21/21 14:50 CST		0	Hail (1.00 in)
	08/21/21 14:50 CST		0	Source: Trained Spotter
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RANDALL COUNTY --- 7.7 NW TIMBERCREEK CANYON [35.12, -101.93]				
	08/21/21 14:54 CST		60K	Hail (1.25 in)
	08/22/21 14:56 CST		0	Source: NWS Employee
A NWS employee reported 1.25 diameter hailstones at their house in southwest Amarillo.				
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POTTER COUNTY --- 4.0 W AMARILLO [35.20, -101.89]				
	08/21/21 14:55 CST		0	Thunderstorm Wind (EG 65 kt)
	08/21/21 14:55 CST		0	Source: Public
Received report of widespread tree damage near Avondale Elementary and there was at least one large tree was completely uprooted.				
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POTTER COUNTY --- 5.1 W AMARILLO [35.20, -101.91], 2.3 W AMARILLO [35.20, -101.86], 2.4 WSW AMARILLO [35.19, -101.86], 5.2 W AMARILLO [35.19, -101.91]				
	08/21/21 15:09 CST		0	Flood (due to Heavy Rain)
	08/21/21 15:09 CST		0	Source: Storm Chaser
Heavy flooding was reported under the bridge at I-40 and Bell, with traffic at a standstill in the west bound lane.				
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RANDALL COUNTY --- 7.8 WSW AMARILLO [35.17, -101.95], 4.9 WSW AMARILLO [35.17, -101.89], 6.6 SW AMARILLO [35.13, -101.89], 9.0 SW AMARILLO [35.13, -101.95]				
	08/21/21 15:36 CST		50K	Flash Flood (due to Heavy Rain)
	08/21/21 16:20 CST		0	Source: Trained Spotter
Road closed from 45th to Hillside on Coulter with 3 to 4 feet of water. Firefighters were helping motorist escape from flooding and stalled vehicles. An additional report was submitted by the public for water filling up West Hill Park with some roads around the park impassable.				
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LIPSCOMB COUNTY --- 0.6 W BOOKER [36.45, -100.54], 1.0 NNW BOOKER [36.46, -100.54]				
	08/21/21 15:44 CST		0	Hail (2.00 in)
	08/21/21 15:57 CST		0	Source: Fire Department/Rescue
A picture with the hail measurement was sent to the NWS office over social media. Numerous reports of golf ball size hail in an around Booker were also received.				
<p>A stationary front extended from a low near Amarillo east northeast to just south of Canadian, TX in the afternoon. The lower levels of the atmosphere were moistening from southeast surface winds into the stationary front and the edge of the southwest United States monsoon moisture plume was also present across the area. Weak to moderate instability was found along and behind the front along with weak wind shear which was greatest in the far northern Panhandles and into Kansas. Thunderstorms initially developed near Amarillo around 2 pm as a weak upper level disturbance passed through the area. These storms were slow-moving and they were interacting with outflow boundaries. Some severe storms trained along and outflow boundary collision across the western side of Amarillo causing flooding. In addition, a couple of storms with large hail (up to 2 inches in diameter) moved northward across Lipscomb</p>				

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and Beaver Counties during the late afternoon/early evening where the better dynamics and wind shear were located.

HUTCHINSON COUNTY --- 0.6 W FRITCH [35.63, -101.61]

08/29/21 14:22 CST	0.10M	Thunderstorm Wind (EG 65 kt)
08/29/21 14:22 CST	0	Source: Public

Video and photos received over social media showed considerable damage to some older storage buildings and boats off of highway 136 on the southwest side of Fritch. Time of event was estimated based on radar and local mesonet.

RANDALL COUNTY --- 6.4 WSW AMARILLO [35.17, -101.93], 3.9 SW AMARILLO [35.17, -101.88], 5.2 SW AMARILLO [35.14, -101.88], 7.3 SW AMARILLO [35.14, -101.93]

08/29/21 17:15 CST	0	Flood (due to Heavy Rain)
08/29/21 17:15 CST	0	Source: Trained Spotter

Considerable street flooding along Bell St., between 45th and Hillside. Several inches of flowing water on sides of roads, with a few inches in the middle.

On the morning of the 29th a surface low and trough across eastern Colorado that moved south into the combined Panhandles during the afternoon. Convergence associated with these features led to thunderstorm formation in the afternoon hours. This boundary created at least one severe thunderstorm that produced damaging winds early on while another created some nuisance flooding 3 hours later.