

Storm Data and Unusual Weather Phenomena - July 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
OKLAHOMA, Panhandle				
TEXAS COUNTY --- (GUY)GUYMON MUNI ARP [36.68, -101.50]				
	07/04/21 18:40 CST		0	Thunderstorm Wind (MG 54 kt)
	07/04/21 18:40 CST		0	Source: ASOS
TEXAS COUNTY --- (GUY)GUYMON MUNI ARP [36.68, -101.50]				
	07/04/21 18:54 CST		0	Thunderstorm Wind (MG 51 kt)
	07/04/21 18:54 CST		0	Source: ASOS
TEXAS COUNTY --- 1.7 E GOODWELL [36.60, -101.60]				
	07/04/21 19:10 CST		0	Thunderstorm Wind (MG 63 kt)
	07/04/21 19:16 CST		0	Source: Mesonet
Initial severe wind gust occurred at 2010 CDT with peak gust around 2015 CDT.				
CIMARRON COUNTY --- 3.0 SSE BOISE CITY [36.69, -102.50]				
	07/04/21 19:30 CST		0	Thunderstorm Wind (MG 68 kt)
	07/04/21 19:36 CST		0	Source: Mesonet
First severe gust was measured at 2030 CDT with a peak gust measured at 2035 CDT.				
<p>A plume of monsoon moisture extended across the region and thunderstorms were ongoing in the morning of the 4th due to an Mesoscale Convective Vortex (MCV) moving southeast from the northeast Texas Panhandle into western Oklahoma. An upper level short wave moving south through western Kansas along with a surface trough across northeast New Mexico into the western Oklahoma Panhandle helped to spark additional showers and thunderstorms in the northwest during the afternoon hours. Thunderstorms, some severe, and some with excessive rainfall developed across the western Oklahoma Panhandle and the northwest Texas Panhandle during the mid afternoon given moderate instability in the area. These thunderstorms moved south-southwest across the western Panhandles. Hail up to 2 inches in diameter and flooding was reported near Dalhart. Winds up to 78 mph were reported at the Boise City mesonet station and severe wind gusts were also reported at several other ASOS ad mesonet stations across the area. Additional thunderstorms with damaging winds developed after midnight across the south central and southwest Texas Panhandle and moved southwest.</p>				
TEXAS COUNTY --- 6.2 N EVA [36.89, -101.90]				
	07/17/21 14:57 CST		0	Hail (1.00 in)
	07/17/21 14:57 CST		0	Source: Public
Mostly dime to nickel size with a few stones up to the size of quarters. Reported by a local feed lot.				
<p>On the evening of the 17th of July 2021, thunderstorms formed over higher terrain in northeast New Mexico and southeast Colorado. These storms moved southeast into the combined Oklahoma and Texas Panhandles. The atmospheric instability was sufficient to support a few severe storms with large hail and damaging winds in addition to locally heavy rainfall.</p>				
BEAVER COUNTY --- 0.7 S BEAVER [36.81, -100.52]				
	07/18/21 14:36 CST		0	Thunderstorm Wind (EG 61 kt)
	07/18/21 14:39 CST		0	Source: Emergency Manager
Emergency Manager reported tree limbs snapped that were 4 to 6 inches in diameter.				
<p>During the afternoon of July 18th, monsoonal related storms moved into the combined Oklahoma and Texas Panhandles as an upper-level disturbance moved south into the Oklahoma Panhandle during the early afternoon hours. Though widespread severe weather did not occur on this day, a couple of isolated storms produced destructive winds. The storms continued to move south over the eastern Texas Panhandle gradually weakening however one final severe wind gust did occur near Wellington, TX.</p>				
TEXAS, North Panhandle				
(TX-Z016) DEAF SMITH				
	07/01/21 00:00 CST		0	Drought
	07/05/21 00:00 CST		0	

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Between July 1st and July 4th, Deaf Smith County received 100 to 200 percent of July normal in the matter of the first four days. This lead to the improvement of drought status where the far southwest was still in severe drought (D2). A West Texas Mesonet located in Bootleg was well within the drought area and had received a little over 5 inches of rain in the first four days of July. The county had already been greening up by this time, but this rain had helped mitigate the deficit since last year.

OCHILTREE COUNTY --- 1.6 W PERRYTON [36.40, -100.83], 0.6 W PERRYTON [36.40, -100.81], 1.5 SSW PERRYTON [36.38, -100.81], 2.1 SW PERRYTON [36.38, -100.83]

07/01/21 13:45 CST	0	Flood (due to Heavy Rain)
07/01/21 14:45 CST	0	Source: Public

Pickup truck had stalled in flood waters on Jefferson Street.

POTTER COUNTY --- 3.5 NW VALLE DE ORO [35.49, -102.15], 3.1 NNE VALLE DE ORO [35.49, -102.09], 1.4 ENE VALLE DE ORO [35.46, -102.09], 0.7 NW VALLE DE ORO [35.46, -102.12]

07/01/21 20:00 CST	0	Flood (due to Heavy Rain)
07/01/21 21:00 CST	0	Source: Public

A yard was completely flooded near the creek at Valley De Oro.

CARSON COUNTY --- 0.2 WNW PANHANDLE [35.35, -101.38], 0.4 ENE PANHANDLE [35.35, -101.37], 0.4 ESE PANHANDLE [35.35, -101.37], 0.1 S PANHANDLE [35.35, -101.38]

07/01/21 20:41 CST	0	Flood (due to Heavy Rain)
07/01/21 20:41 CST	0	Source: Broadcast Media

Video by posted on KVII Facebook page showing nuisance street flooding.

CARSON COUNTY --- 1.1 NW PANHANDLE [35.36, -101.39], 0.8 NNE PANHANDLE [35.36, -101.37], 0.5 SE PANHANDLE [35.34, -101.37], 0.8 WSW PANHANDLE [35.34, -101.39]

07/01/21 21:50 CST	0	Flash Flood (due to Heavy Rain)
07/01/21 22:50 CST	0	Source: Law Enforcement

Carson County also reported that a car was swept off the road and stranded in the ditch on Highway 207 1 mile north of Panhandle.

POTTER COUNTY --- 5.6 ENE BUSHLAND [35.20, -101.98], 6.2 W AMARILLO [35.20, -101.93], 6.6 WSW AMARILLO [35.17, -101.93], 5.4 E BUSHLAND [35.17, -101.97]

07/01/21 23:46 CST	0	Flood (due to Heavy Rain)
07/01/21 23:46 CST	0	Source: Public

Received a report of around 8 inches of water ponding on road along I-40 west bound near Helium Rd.

A weak upper level disturbance and slow moving frontal boundary interacted with copious moisture that was in place to produce thunderstorms with heavy rainfall across the Panhandles beginning Thursday afternoon June 1 and continuing through the early morning hours on June 2. The storms initially developed across the Oklahoma Panhandle as the boundary sagged into the area in the afternoon. Scattered higher rainfall totals of 1 to 2 inches occurred with these storms. As the broken line of thunderstorms drifted south and entered the central and southern Texas Panhandle in the evening hours, they merged into multiple larger thunderstorm complexes that produced more widespread heavy rainfall. Most areas received 1 to 3 inches of rain but isolated 4 to 6 inch amounts had also occurred. This led to widespread nuisance road flooding across the region, but localized flash flooding impacts occurred as well in a few areas from near Amarillo to Panhandle.

DALLAM COUNTY --- 0.6 S DALHART [36.06, -102.52], 0.8 SE DALHART [36.06, -102.51], 1.4 SSE DALHART [36.05, -102.51], 1.2 S DALHART [36.05, -102.52]

07/04/21 15:38 CST	0	Flood (due to Heavy Rain)
07/04/21 16:38 CST	0	Source: Storm Chaser

Street flooding was reported in and around the city of Dalhart. Roads did remain passible.

MOORE COUNTY --- 1.1 E DUMAS [35.85, -101.95]

07/04/21 15:46 CST	0	Hail (1.25 in)
07/04/21 15:46 CST	0	Source: Public

DALLAM COUNTY --- 0.9 NE DALHART [36.08, -102.51]

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	07/04/21 15:55 CST		0	Hail (2.00 in)
	07/04/21 15:55 CST		0	Source: Storm Chaser

Storm chaser reported 1-2 inch diameter hail in and around Dalhart to around 5 miles north of town. Some minor accumulating hail was reported on highway 385, about 4 miles north of the city as well.

DALLAM COUNTY --- 4.5 E DALHART [36.06, -102.44]

07/04/21 16:43 CST	0	Hail (1.50 in)
07/04/21 16:45 CST	0	Source: Public

Report received of 1 to 1.5 inch hail falling for around 2 minutes.

HARTLEY COUNTY --- 3.5 SW (DHT)DALHART MUNI AR [35.99, -102.60]

07/04/21 16:50 CST	0	Hail (1.75 in)
07/04/21 16:50 CST	0	Source: Trained Spotter

HARTLEY COUNTY --- 8.7 SW (DHT)DALHART MUNI AR [35.94, -102.67]

07/04/21 17:23 CST	1K	Hail (2.00 in)
07/04/21 17:23 CST	0	Source: Storm Chaser

Hail up to 2 inches broke storm chaser's windshield.

OLDHAM COUNTY --- 26.0 NW ADRIAN [35.57, -102.96]

07/04/21 18:09 CST	0	Thunderstorm Wind (MG 60 kt)
07/04/21 18:30 CST	0	Source: Mesonet

Multiple gusts in excess of 58 mph were measured by a mesonet. Maximum wind gust of 69 mph occurred at 1928 CDT.

OLDHAM COUNTY --- 4.7 WSW ADRIAN [35.25, -102.76]

07/04/21 18:56 CST	0	Thunderstorm Wind (MG 54 kt)
07/04/21 18:56 CST	0	Source: Mesonet

OLDHAM COUNTY --- ADRIAN [35.27, -102.68]

07/04/21 19:10 CST	0	Hail (1.25 in)
07/04/21 19:10 CST	0	Source: Storm Chaser

DEAF SMITH COUNTY --- 9.5 WSW WALCOTT [34.89, -102.99]

07/04/21 23:19 CST	0	Thunderstorm Wind (MG 59 kt)
07/04/21 23:19 CST	0	Source: Mesonet

ARMSTRONG COUNTY --- 2.4 ESE WASHBURN [35.17, -101.54]

07/05/21 00:32 CST	5K	Thunderstorm Wind (EG 52 kt)
07/05/21 00:32 CST	0	Source: Public

A roof was taken off of a front porch. Also a heavy duty swing-set was blown over and several tree limbs were blown down.

RANDALL COUNTY --- 3.6 NNW LAKE TANGLEWOOD [35.11, -101.80]

07/05/21 01:22 CST	0	Thunderstorm Wind (MG 56 kt)
07/05/21 01:22 CST	0	Source: Mesonet

A plume of monsoon moisture extended across the region and thunderstorms were ongoing in the morning of the 4th due to an Mesoscale Convective Vortex (MCV) moving southeast from the northeast Texas Panhandle into western Oklahoma. An upper level short wave moving south through western Kansas along with a surface trough across northeast New Mexico into the western Oklahoma Panhandle helped to spark additional showers and thunderstorms in the northwest during the afternoon hours. Thunderstorms, some severe, and some with excessive rainfall developed across the western Oklahoma Panhandle and the northwest Texas Panhandle during the mid afternoon given moderate instability in the area. These thunderstorms moved south-southwest across the western Panhandles. Hail up to 2 inches in diameter and flooding was reported near Dalhart. Winds up to 78 mph were reported at the Boise City mesonet station and severe wind gusts were also reported at several other ASOS ad mesonet stations across the area. Additional thunderstorms with damaging winds developed after midnight across the south central and southwest Texas Panhandle and moved southwest.

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POTTER COUNTY --- 5.4 W AMARILLO [35.20, -101.92], 2.7 W AMARILLO [35.20, -101.87], 3.6 SW AMARILLO [35.17, -101.87], 5.9 WSW AMARILLO [35.17, -101.92]				
	07/07/21 06:14 CST		0	Flood (due to Heavy Rain)
	07/07/21 07:14 CST		0	Source: NWS Employee
Reported flooding of I-40 under the overpass at Bell St.				
RANDALL COUNTY --- 6.3 WNW AMARILLO [35.23, -101.93], 3.1 NW AMARILLO [35.23, -101.86], 5.1 SSW AMARILLO [35.14, -101.86], 7.5 SW AMARILLO [35.14, -101.93]				
	07/07/21 07:19 CST		0	Flood (due to Heavy Rain)
	07/07/21 08:19 CST		0	Source: Emergency Manager
Multiple flooded roadways around Amarillo including Soncy Road, Coulter Road, Hollywood Road, Western Street, and Teckla Boulevard.				
The combination of frontal boundaries and a very moist and unstable atmosphere had led to thunderstorms across the Texas Panhandle with heavy rainfall. Weak winds aloft led to slow movement of these storms with isolated flooding impacts especially in urban areas with poor drainage.				
OLDHAM COUNTY --- 26.0 NW ADRIAN [35.57, -102.96]				
	07/16/21 21:32 CST		0	Thunderstorm Wind (MG 53 kt)
	07/16/21 21:32 CST		0	Source: Mesonet
Thunderstorm collapsed right on top of the mesonet.				
While the atmosphere was not conducive for organized severe storms, a collapsing storm did produce an isolated severe wind gusts near near Romero, TX.				
ARMSTRONG COUNTY --- 2.6 WSW CLAUDE [35.10, -101.41]				
	07/17/21 16:14 CST		0	Hail (1.75 in)
	07/17/21 16:14 CST		0	Source: Public
Reported mostly quarter size hail with a few stones as large as golf balls. It was also said that a cotton field two miles to the west was completely destroyed.				
DONLEY COUNTY --- 3.2 SSE HOWARDWICK [35.03, -100.89]				
	07/17/21 16:51 CST		0	Thunderstorm Wind (EG 61 kt)
	07/17/21 16:51 CST		0	Source: Trained Spotter
A few trees were blown down near the Howardwick entrance off of Highway 70. One mile north of the entrance on Highway 70 there was also a carport roof that was also blown off.				
DONLEY COUNTY --- 3.9 SSE HOWARDWICK [35.02, -100.89]				
	07/17/21 17:02 CST		0	Hail (1.00 in)
	07/17/21 17:04 CST		0	Source: Public
Reported that hail was making a lot of noises banging on everything. Person estimates the largest hail stones to be at least the size of quarters. Hail had lasted for about 2 minutes.				
POTTER COUNTY --- AMARILLO [35.20, -101.82]				
	07/17/21 17:55 CST		0	Thunderstorm Wind (MG 54 kt)
	07/17/21 17:55 CST		0	Source: Mesonet
POTTER COUNTY --- AMARILLO [35.20, -101.82]				
	07/17/21 18:04 CST		0	Thunderstorm Wind (MG 54 kt)
	07/17/21 18:04 CST		0	Source: Mesonet
RANDALL COUNTY --- 3.0 NNE UMBARGER [34.99, -102.08]				
	07/17/21 18:25 CST		0	Thunderstorm Wind (MG 50 kt)
	07/17/21 18:25 CST		0	Source: Mesonet
DEAF SMITH COUNTY --- 1.7 NW HEREFORD [34.83, -102.42], 1.5 NE HEREFORD [34.83, -102.38], 1.3 ESE HEREFORD [34.81, -102.38], 1.5 WSW HEREFORD [34.81, -102.42]				

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	07/17/21 19:07 CST		0	Flood (due to Heavy Rain)
	07/17/21 20:07 CST		0	Source: Public
Water over HWY 385 causing nuisance flooding was reported.				
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DEAF SMITH COUNTY --- 1.8 NW HEREFORD [34.84, -102.42]				
	07/17/21 19:10 CST		0	Thunderstorm Wind (MG 57 kt)
	07/17/21 19:10 CST		0	Source: Mesonet
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DEAF SMITH COUNTY --- HEREFORD [34.82, -102.40]				
	07/17/21 19:11 CST		0	Thunderstorm Wind (EG 61 kt)
	07/17/21 19:11 CST		0	Source: Emergency Manager
Tree limbs upwards of 3 inches and diameter were snapped.				
<p>On the evening of the 17th of July 2021, thunderstorms formed over higher terrain in northeast New Mexico and southeast Colorado. These storms moved southeast into the combined Oklahoma and Texas Panhandles. The atmospheric instability was sufficient to support a few severe storms with large hail and damaging winds in addition to locally heavy rainfall.</p>				
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COLLINGSWORTH COUNTY --- 0.6 E WELLINGTON [34.85, -100.21]				
	07/18/21 19:20 CST		0	Thunderstorm Wind (MG 50 kt)
	07/18/21 19:20 CST		0	Source: Mesonet
<p>During the afternoon of July 18th, monsoonal related storms moved into the combined Oklahoma and Texas Panhandles as an upper-level disturbance moved south into the Oklahoma Panhandle during the early afternoon hours. Though widespread severe weather did not occur on this day, a couple of isolated storms produced destructive winds. The storms continued to move south over the eastern Texas Panhandle gradually weakening however one final severe wind gust did occur near Wellington, TX.</p>				
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GRAY COUNTY --- 9.7 W ALANREED [35.24, -100.90]				
	07/25/21 15:09 CST		0	Thunderstorm Wind (MG 51 kt)
	07/25/21 15:09 CST		0	Source: Mesonet
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DONLEY COUNTY --- 3.0 NNE HOWARDWICK [35.11, -100.90]				
	07/25/21 15:13 CST		0	Hail (2.00 in)
	07/25/21 15:13 CST		0	Source: Law Enforcement
Law Enforcement reported golf ball size upwards of 2 inch diameter hail, with damage to windshield of vehicle.				
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DONLEY COUNTY --- 2.4 WNW JERICHO [35.18, -100.96]				
	07/25/21 15:23 CST		0	Hail (0.88 in)
	07/25/21 15:23 CST		0	Source: Emergency Manager
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GRAY COUNTY --- 1.1 E MC LEAN [35.23, -100.58]				
	07/25/21 16:21 CST		0	Hail (0.88 in)
	07/25/21 16:21 CST		0	Source: Emergency Manager
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ROBERTS COUNTY --- 5.8 NNW MIAMI [35.78, -100.66]				
	07/25/21 16:28 CST		0	Hail (0.88 in)
	07/25/21 16:28 CST		0	Source: Trained Spotter
<p>Monsoonal moisture and daytime heating led to moderate instability and scattered thunderstorms across the Panhandles during the later afternoon and evening hours. A few of these disorganized storms became strong to severe despite somewhat weak wind shear with the aid of outflow boundary collisions. Most hail that was reported remained less than 1 inch in diameter, but one severe storm did manage to produce 2 inch hail.</p>				
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HUTCHINSON COUNTY --- HUTCHINSON CO ARPT [35.70, -101.40]				
	07/31/21 17:05 CST		0	Thunderstorm Wind (MG 52 kt)
	07/31/21 17:05 CST		0	Source: ASOS
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GRAY COUNTY --- 1.8 NE PAMPA [35.55, -100.95]				

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	07/31/21 21:00 CST		2K	Thunderstorm Wind (EG 61 kt)
	07/31/21 21:00 CST		0	Source: Public
Thunderstorm wind gust got in under a persons carport ripping it up and demolishing it.				
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GRAY COUNTY --- 2.6 ENE PAMPA [35.55, -100.93]	07/31/21 21:05 CST		0	Thunderstorm Wind (MG 62 kt)
	07/31/21 21:05 CST		0	Source: Mesonet
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GRAY COUNTY --- 3.0 NNE PAMPA [35.57, -100.95]	07/31/21 21:05 CST		0	Thunderstorm Wind (EG 61 kt)
	07/31/21 21:05 CST		0	Source: Public
Photos were received of damage to a house and fence of the residence. Fence was blown over and newly constructed door fell out of house frame.				
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HANSFORD COUNTY --- 11.1 N SPEARMAN [36.36, -101.18]	07/31/21 21:05 CST		0	Thunderstorm Wind (MG 63 kt)
	07/31/21 21:05 CST		0	Source: Mesonet
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GRAY COUNTY --- 1.4 S PAMPA LEFORS ARPT [35.60, -101.00]	07/31/21 21:15 CST		0	Thunderstorm Wind (MG 51 kt)
	07/31/21 21:15 CST		0	Source: AWOS

During the late afternoon of the 31st of July, several small thunderstorms developed with daytime heating as the summer monsoon moisture plume extended across the area. By evening, the initial storms sent out several outflow boundaries which collided with one another and created larger and stronger thunderstorms. While lack of wind shear (stronger winds aloft) caused these storms to collapse on themselves, the environment was favorable for collapsing storms to produce damaging wind gusts across the Texas Panhandle. Though no damage was reported several automated weather stations recorded wind gusts in excess of 60 mph.