

## Storm Data and Unusual Weather Phenomena - July 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>OKLAHOMA, Panhandle</b>				
<b>TEXAS COUNTY --- 10.6 NE EVA [36.92, -101.78]</b>				
	07/02/16 15:15 CST	0		Thunderstorm Wind (MG 56 kt)
	07/02/16 15:15 CST	0		Source: Mesonet
<b>BEAVER COUNTY --- 1.5 SSW BEAVER [36.80, -100.53]</b>				
	07/02/16 18:25 CST	0		Thunderstorm Wind (MG 55 kt)
	07/02/16 18:25 CST	0		Source: Mesonet
<b>BEAVER COUNTY --- 3.9 WSW FORGAN [36.87, -100.59]</b>				
	07/02/16 18:45 CST	0		Thunderstorm Wind (EG 50 kt)
	07/02/16 18:45 CST	0		Source: Emergency Manager
Barn destroyed and an outbuilding overturned. Four power poles knocked over. Six inch diameter tree limb peeled off. Windows broken in cars and home.				
An upper level trough moving east across southeastern Colorado helped to develop storms south of the stationary front across southern Kansas. With CAPE values between 1500-200 J/Kg and weak effective bulk shear around 30 kts, individual storms congealed into a line and moved east-southeast across the eastern Panhandles. Damaging winds was the main severe weather impact.				
<b>CIMARRON COUNTY --- 3.0 SSE BOISE CITY [36.69, -102.50]</b>				
	07/03/16 18:05 CST	0		Thunderstorm Wind (MG 61 kt)
	07/03/16 18:05 CST	0		Source: Mesonet
<b>CIMARRON COUNTY --- 0.6 E BOISE CITY [36.73, -102.51]</b>				
	07/03/16 18:08 CST	0		Hail (0.75 in)
	07/03/16 18:08 CST	0		Source: Law Enforcement
<b>CIMARRON COUNTY --- 1.0 WSW FELT [36.56, -102.80]</b>				
	07/03/16 19:27 CST	0		Thunderstorm Wind (MG 52 kt)
	07/03/16 19:27 CST	0		Source: Trained Spotter
An upper level shortwave trough embedded in mean flow moving east-southeast across SE Colorado coupled with daytime heating and instability generated a multi-cell thunderstorm complex. With CAPE values around 2000 J/kg and 0-6 km bulk shear 30-40 kts, storms produced penny to nickel size hail. Main severe weather impacts were severe wind gusts.				
<b>CIMARRON COUNTY --- 1.8 NW STURGIS [36.90, -102.07]</b>				
	07/15/16 15:49 CST	0		Thunderstorm Wind (EG 52 kt)
	07/15/16 15:49 CST	0		Source: Public
Late report...tree branches up to four inch in diameter were snapped.				
<b>BEAVER COUNTY --- 0.7 S BEAVER [36.81, -100.52]</b>				
	07/15/16 18:20 CST	0		Thunderstorm Wind (MG 65 kt)
	07/15/16 18:20 CST	0		Source: Emergency Manager
<b>BEAVER COUNTY --- 1.5 SSW BEAVER [36.80, -100.53]</b>				
	07/15/16 18:20 CST	0		Thunderstorm Wind (MG 53 kt)
	07/15/16 18:20 CST	0		Source: Mesonet
<b>BEAVER COUNTY --- 2.2 E BRYANS CORNER [36.62, -100.78]</b>				
	07/15/16 18:26 CST	0		Thunderstorm Wind (EG 52 kt)
	07/15/16 18:26 CST	0		Source: Emergency Manager
Semi truck blown over on Highway 412 west of Route 23.				
<b>BEAVER COUNTY --- 3.0 NW LOGAN [36.60, -100.26]</b>				
	07/15/16 18:50 CST	0		Thunderstorm Wind (MG 52 kt)
	07/15/16 18:50 CST	0		Source: Mesonet

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<b>BEAVER COUNTY --- 3.0 NW LOGAN [36.60, -100.26]</b>				
	07/15/16 18:53 CST		0	Thunderstorm Wind (MG 56 kt)
	07/15/16 18:53 CST		0	Source: Mesonet

A weak upper level trough with embedded vort max and surface boundary moved southeast from NM/CO across the Panhandles. In this low CAPE, high shear environment, storms that formed along the surface boundary moved southeast across the Panhandles formed into a line. These storms main weather impact was severe wind gusts with a few damage reports.

<b>TEXAS COUNTY --- 0.9 NW (GUY)GUYMON MUNI ARP [36.69, -101.51]</b>				
	07/24/16 21:00 CST		0	Thunderstorm Wind (MG 51 kt)
	07/24/16 21:00 CST		0	Source: ASOS

Convection developed in the evening along a stationary boundary from northwest Oklahoma into SW KS and SE CO. Out ahead of the front where weak wind shear around 20 kts and limited CAPE between 500-1000 J/Kg did manage to produce a complex of thunderstorms. One storm on the onset of the thunderstorm development moving SE did produce a severe wind gust at the Guymon, OK ASOS station.

### TEXAS, North Panhandle

<b>LIPSCOMB COUNTY --- 0.6 W BOOKER [36.45, -100.54]</b>				
	07/02/16 20:12 CST		0	Thunderstorm Wind (MG 52 kt)
	07/02/16 20:12 CST		0	Source: Broadcast Media

An upper level trough moving east across southeastern Colorado helped to develop storms south of the stationary front across southern Kansas. With CAPE values between 1500-200 J/Kg and weak effective bulk shear around 30 kts, individual storms congealed into a line and moved east-southeast across the eastern Panhandles. Damaging winds was the main severe weather impact.

<b>DEAF SMITH COUNTY --- 2.4 SSW DAWN [34.89, -102.22]</b>				
	07/03/16 19:58 CST		0	Hail (0.88 in)
	07/03/16 19:58 CST		0	Source: Law Enforcement

An upper level shortwave trough embedded in mean flow moving east-southeast across SE Colorado coupled with daytime heating and instability generated a multi-cell thunderstorm complex. With CAPE values around 2000 J/kg and 0-6 km bulk shear 30-40 kts, storms produced penny to nickel size hail. Main severe weather impacts were severe wind gusts.

<b>ROBERTS COUNTY --- 26.0 NW MIAMI [35.97, -100.96]</b>				
	07/05/16 00:55 CST		0	Thunderstorm Wind (MG 53 kt)
	07/05/16 00:55 CST		0	Source: AWOS

An upper level shortwave trough over northeastern NM helped to generate storms in NM and move into the TX panhandle late on 7/4. As the convection reached parts of the north central TX Panhandle by early AM on 7/5, sufficient low level SE flow with moisture axis that was set up just east of a dryline boundary. With SBCAPE gradient between 1000-2000 J/kg, a storm over Roberts County did produce a severe wind gust in this high CAPE, low-moderate shear environment.

<b>(TX-Z017) RANDALL</b>				
	07/05/16 16:40 CST	1	0	Heat
	07/05/16 16:40 CST		0	

Direct Fatalities: F53OU

From Amarillo Global News, at 4:40 PM, park police responded to a call at the canyon's Lighthouse Trail, where an unidentified 53-year-old woman was transported to the Mack Dick Group Pavilion with the assistance of Canyon and Randall County firefighters and Baptist St. Anthony's paramedics. From there, she was airlifted to Northwest Texas Hospital where she later died.

<b>OCHILTREE COUNTY --- 0.7 N PERRYTON MUNI ARPT [36.41, -100.75]</b>				
	07/07/16 22:55 CST		0	Thunderstorm Wind (MG 56 kt)
	07/07/16 22:55 CST		0	Source: AWOS

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>LIPSCOMB COUNTY --- 5.1 W LIPSCOMB [36.24, -100.36]</b>				
	07/07/16 23:10 CST		0	Thunderstorm Wind (MG 51 kt)
	07/07/16 23:10 CST		0	Source: Broadcast Media
<p>An upper level ridge shifting east from Colorado into the Panhandles along with a weak surface cold front helped to generate some thunderstorms. With CAPE between 1000-1500 J/kg and weak shear, storms produced severe wind gusts as they moved east along the surface boundary in the NE TX Panhandle.</p>				
<b>(TX-Z009) ROBERTS</b>				
	07/11/16 12:30 CST		0	Wildfire
	07/12/16 08:00 CST		0	
<p>The Chisum Ranch wildfire began around 1230CST about seventeen miles north northwest of Codman Texas in Roberts county. The wildfire started west of State Highway 70 and southwest of Ledrick Road and consumed approximately eleven thousand two hundred and fifty acres. The wildfire was caused by a vehicle or vehicles either dragging metal which caused sparks or the faulty muffler or hot catalytic converter of a vehicle or vehicles. There was a report that three homes were threatened but were saved, however no homes or other structures were destroyed. There were no reports of injuries or fatalities. The wildfire was contained around 0800CST on July 12. There were approximately twelve fire departments or other fire agencies that responded to the wildfire including the Texas A&amp;M Forest Service, the Miami-Roberts County Volunteer Fire Department, and also the fire departments from Pampa, Perryton, Borger, Stinnett and Shamrock. The volunteer fire departments from Mobeetie, Skellytown, Lefors, Briscoe County and Kelton also responded to the wildfire.</p>				
<b>ARMSTRONG COUNTY --- 5.7 E CLAUDE [35.11, -101.27]</b>				
	07/12/16 19:20 CST		0	Hail (1.25 in)
	07/12/16 19:20 CST		0	Source: Broadcast Media
<p>On US Highway 287 east of Claude.</p>				
<b>DONLEY COUNTY --- 4.6 W JERICHO [35.18, -101.00]</b>				
	07/12/16 19:57 CST		0	Hail (1.50 in)
	07/12/16 19:57 CST		0	Source: Broadcast Media
<p>Reported between Groom and Highway 70 going north. Quarter size increased to ping pong ball size.</p>				
<b>GRAY COUNTY --- 13.7 W ALANREED [35.19, -100.97]</b>				
	07/12/16 20:07 CST		0	Thunderstorm Wind (MG 56 kt)
	07/12/16 20:07 CST		0	Source: Broadcast Media
<b>GRAY COUNTY --- 2.8 NNW MC LEAN [35.27, -100.61]</b>				
	07/12/16 20:43 CST		0	Hail (2.75 in)
	07/12/16 20:43 CST		0	Source: Law Enforcement
<b>GRAY COUNTY --- 2.1 N MC LEAN [35.26, -100.60]</b>				
	07/12/16 20:47 CST		0	Hail (1.50 in)
	07/12/16 20:47 CST		0	Source: Broadcast Media
<b>GRAY COUNTY --- 2.1 N MC LEAN [35.26, -100.60]</b>				
	07/12/16 20:53 CST		0	Hail (0.88 in)
	07/12/16 20:53 CST		0	Source: Broadcast Media
<p>A surface trough was set up across the north central TX Panhandles with moist southeasterly downstream of the trough axis across the eastern Panhandle. With a weak-moderate shear and high CAPE environment, a supercell did develop in covering meso-boundaries near the trough axis. This storm moved east and produced several reports of large hail.</p>				
<b>CARSON COUNTY --- SKELLYTOWN [35.57, -101.18]</b>				
	07/14/16 17:50 CST		0	Hail (1.75 in)
	07/14/16 17:50 CST		0	Source: Fire Department/Rescue
<b>ARMSTRONG COUNTY --- 3.9 NNE WAYSIDE [34.83, -101.52]</b>				

## Storm Data and Unusual Weather Phenomena - July 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/14/16 18:24 CST		0	Hail (1.75 in)
	07/14/16 18:24 CST		0	Source: Broadcast Media
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<b>CARSON COUNTY --- 1.1 W GROOM [35.20, -101.12]</b>				
	07/14/16 18:25 CST		0	Hail (1.75 in)
	07/14/16 18:25 CST		0	Source: Public
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<b>CARSON COUNTY --- 4.5 W GROOM [35.20, -101.18]</b>				
	07/14/16 18:29 CST		0	Thunderstorm Wind (MG 52 kt)
	07/14/16 18:29 CST		0	Source: Broadcast Media
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<b>CARSON COUNTY --- 1.1 W GROOM [35.20, -101.12]</b>				
	07/14/16 18:31 CST		0	Hail (1.00 in)
	07/14/16 18:31 CST		0	Source: Storm Chaser
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<b>CARSON COUNTY --- 7.4 E CONWAY [35.21, -101.25]</b>				
	07/14/16 18:35 CST		0	Hail (1.00 in)
	07/14/16 18:35 CST		0	Source: Trained Spotter
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<b>CARSON COUNTY --- 7.4 E CONWAY [35.21, -101.25]</b>				
	07/14/16 18:35 CST		0	Thunderstorm Wind (MG 52 kt)
	07/14/16 18:35 CST		0	Source: Trained Spotter
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<b>ARMSTRONG COUNTY --- 3.9 NNE WAYSIDE [34.83, -101.52]</b>				
	07/14/16 18:43 CST		0	Hail (1.75 in)
	07/14/16 18:43 CST		0	Source: Broadcast Media
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<b>ARMSTRONG COUNTY --- 0.6 E GOODNIGHT [35.03, -101.19]</b>				
	07/14/16 19:00 CST		0	Hail (1.00 in)
	07/14/16 19:00 CST		0	Source: Broadcast Media
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<b>RANDALL COUNTY --- 0.9 NW LAKE TANGLEWOOD [35.07, -101.79]</b>				
	07/14/16 19:36 CST		0	Hail (1.25 in)
	07/14/16 19:36 CST		0	Source: NWS Employee
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<p><b>A quasi-stationary front was draped across the central TX Panhandle. In a moderate-high CAPE, high shear environment, areas along and south of the quasi-stationary front developed convection. Numerous outflow boundaries were generated which allowed the storms to move in multiple directions. Large hail was the main outcome of these storms.</b></p>				
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<b>DEAF SMITH COUNTY --- 9.5 WSW WALCOTT [34.89, -102.99]</b>				
	07/15/16 18:00 CST		0	Thunderstorm Wind (MG 52 kt)
	07/15/16 18:00 CST		0	Source: Mesonet
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<b>DEAF SMITH COUNTY --- 9.5 WSW WALCOTT [34.89, -102.99]</b>				
	07/15/16 18:07 CST		0	Thunderstorm Wind (MG 53 kt)
	07/15/16 18:07 CST		0	Source: Mesonet
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<b>OCHILTREE COUNTY --- 0.7 N PERRYTON MUNI ARPT [36.41, -100.75]</b>				
	07/15/16 18:15 CST		0	Thunderstorm Wind (MG 61 kt)
	07/15/16 18:15 CST		0	Source: AWOS
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<b>POTTER COUNTY --- 7.6 ENE VALLE DE ORO [35.50, -101.99]</b>				
	07/15/16 18:24 CST		0	Thunderstorm Wind (MG 51 kt)
	07/15/16 18:24 CST		0	Source: Broadcast Media
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<b>HUTCHINSON COUNTY --- 2.4 SSW BORGER [35.64, -101.40]</b>				
	07/15/16 19:07 CST		0	Thunderstorm Wind (MG 54 kt)
	07/15/16 19:07 CST		0	Source: Trained Spotter

## Storm Data and Unusual Weather Phenomena - July 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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<b>RANDALL COUNTY --- 2.2 NE LAKE TANGLEWOOD [35.08, -101.75]</b>	07/15/16 19:34 CST		0	Thunderstorm Wind (MG 56 kt)
	07/15/16 19:34 CST		0	Source: Broadcast Media
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<b>HEMPHILL COUNTY --- 9.7 NNW GAGEBY [35.74, -100.42]</b>	07/15/16 19:39 CST		0	Thunderstorm Wind (MG 57 kt)
	07/15/16 19:39 CST		0	Source: Broadcast Media
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<b>CARSON COUNTY --- 0.6 E WHITE DEER [35.43, -101.17]</b>	07/15/16 19:45 CST		0	Thunderstorm Wind (EG 52 kt)
	07/15/16 19:45 CST		0	Source: Public
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Four inch diameter tree branch snapped.				
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<b>RANDALL COUNTY --- 2.4 WNW PALO DURO CANYON STATE PARK [34.96, -101.71]</b>	07/15/16 19:54 CST		0	Thunderstorm Wind (EG 52 kt)
	07/15/16 19:54 CST		0	Source: Trained Spotter
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Late report...visibility reduced to less than a mile in sideways blowing rain. Time estimated from Doppler radar.				
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<b>DONLEY COUNTY --- 5.7 E HOWARDWICK [35.08, -100.82]</b>	07/15/16 20:29 CST		0	Thunderstorm Wind (MG 59 kt)
	07/15/16 20:29 CST		0	Source: Broadcast Media
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Late report...68 mph thunderstorm wind gust received from broadcast media.				
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<b>DONLEY COUNTY --- CLARENDON [34.93, -100.90]</b>	07/15/16 20:59 CST		0	Thunderstorm Wind (MG 52 kt)
	07/15/16 20:59 CST		0	Source: Public
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A weak upper level trough with embedded vort max and surface boundary moved southeast from NM/CO across the Panhandles. In this low CAPE, high shear environment, storms that formed along the surface boundary moved southeast across the Panhandles formed into a line. These storms main weather impact was severe wind gusts with a few damage reports.				
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<b>(TX-Z011) OLDHAM</b>	07/15/16 19:00 CST		0	Wildfire
	07/16/16 01:00 CST		0	
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The Scarbauer 1 wildfire began around 1900CST about five miles north northeast of Adrian Texas in Oldham county. The wildfire consumed approximately fifteen hundred acres and was caused by lightning. There were no homes or other structures which were threatened or lost and there were no reports of any injuries or fatalities. The wildfire was contained around 0100CST on July 16. There were two fire departments or other fire agencies that responded to the wildfire including Vega Fire Rescue and the Adrian Volunteer Fire Department.				
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<b>(TX-Z011) OLDHAM</b>	07/17/16 02:02 CST		0	Wildfire
	07/17/16 06:00 CST		0	
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The Scarbauer 2 wildfire began around 0202CST about five miles north northeast of Adrian Texas in Oldham county. The wildfire consumed approximately five hundred acres and was caused by burning pasture and field debris. There were two homes that were threatened but saved and no homes or other structures were destroyed. There were no reports of injuries or fatalities. The wildfire was contained around 0600CST and there were approximately two fire departments or other fire agencies that responded to the wildfire.				
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<b>HARTLEY COUNTY --- 0.7 N (DHT)DALHART MUNI AR [36.03, -102.55]</b>	07/17/16 22:43 CST		0	Thunderstorm Wind (MG 55 kt)
	07/17/16 22:43 CST		0	Source: ASOS
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A mid level trough moving east toward the NM/TX border in-conjunction with a 850-700 mb Td advection east of the trough axis in the mean southerly flow helped to produce some thunderstorms. One storm produced a severe wind gust at the Dalhart ASOS site.				

## Storm Data and Unusual Weather Phenomena - July 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>(TX-Z003) HANSFORD</b>				
	07/20/16 19:09 CST		0	Wildfire
	07/20/16 22:45 CST		0	
<p>The Power Line wildfire began around 1909CST about six miles northwest of Morse Texas in Hansford county. The wildfire consumed approximately five hundred acres and was caused by downed power lines. There were no reports of homes or other structures threatened or lost by the wildfire and there were no reports of any injuries or fatalities. The wildfire was contained between 2230CST to 2300CST. There were a total of six fire departments or other fire agencies that responded to the wildfire.</p>				
<b>ROBERTS COUNTY --- 0.9 SW MIAMI [35.69, -100.64]</b>				
	07/27/16 18:12 CST		0	Thunderstorm Wind (MG 51 kt)
	07/27/16 18:12 CST		0	Source: Broadcast Media
<b>GRAY COUNTY --- 0.7 S PAMPA LEFORS ARPT [35.61, -101.00]</b>				
	07/27/16 18:35 CST		0	Thunderstorm Wind (MG 51 kt)
	07/27/16 18:35 CST		0	Source: AWOS
<p>A weak amplified upper level ridge centered near the CO/NM border established a northwesterly flow into the TX and OK Panhandles. Storms developed in the mid afternoon hours in the OK Panhandle and SW Kansas. With weak shear and SBCAPE between 1000-2000 J/kg, storms did develop and produced a few severe wind gust reports in the NE TX Panhandle as they moved southeast as part of these "ridge rolling" storms complex.</p>				
<b>DALLAM COUNTY --- 13.1 SW PERICO [36.14, -103.02]</b>				
	07/29/16 18:00 CST		0	Thunderstorm Wind (EG 52 kt)
	07/29/16 18:00 CST		0	Source: Trained Spotter
<p>Tree branches 4-6 inch diameter downed by strong wind gusts.</p>				
<b>DALLAM COUNTY --- 0.7 S DALHART [36.06, -102.52]</b>				
	07/29/16 19:05 CST		0	Thunderstorm Wind (MG 51 kt)
	07/29/16 19:05 CST		0	Source: Broadcast Media
<p>Precipitation was associated with an upper level trough along the central TX/OK Panhandle border along with a second trough out to the west across NM with upslope flow with a residual outflow boundary. With the mean upper level steering flow out of the northwest, storms moved from NE NM in far NW TX Panhandle. These individual cell congealed into a line as they moved into a weak CAPE and weak bulk shear environment. These line of storms produced severe wind gusts and some wind damage to tree branches in the NW TX Panhandle.</p>				