

Storm Data and Unusual Weather Phenomena - July 2017

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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NEW MEXICO, Southeast

LEA COUNTY --- 2.0 SW TATUM [33.23, -103.34]

	07/01/17 22:05 MST	0		Thunderstorm Wind (MG 60 kt)
	07/01/17 22:05 MST	0		Source: Mesonet

A thunderstorm moved across Lea County and produced a 69 mph wind gust near Tatum.

A weakened upper ridge was over the region. There was a cold front/outflow boundary across the area along with a couple of other outflow boundaries which provided a focus for thunderstorm development. Southeast winds resulted in upslope flow along the higher terrain in West Texas and southeast New Mexico. These southeast winds also resulted in moisture being transported into the area, and daytime heating aiding in lift which created an unstable atmosphere. There was also an area of intense low-level winds, known as a low-level jet, which helped storms continue into the overnight hours. The storms produced severe wind gusts across West Texas and southeast New Mexico.

LEA COUNTY --- 2.0 SW TATUM [33.23, -103.34]

	07/26/17 14:20 MST	0		Thunderstorm Wind (MG 57 kt)
	07/26/17 14:20 MST	0		Source: Mesonet

A thunderstorm moved across Lea County and produced a 66 mph wind gust near Tatum.

There was an upper level ridge over the region with temperatures slightly above normal. A weak surface trough was across southeast New Mexico which provided lift across the area. These conditions allowed for storms to develop with strong and gusty winds.

EDDY COUNTY --- 4.0 SW CARLSBAD [32.38, -104.28]

	07/29/17 20:18 MST	0		Thunderstorm Wind (MG 59 kt)
	07/29/17 20:18 MST	0		Source: ASOS

A thunderstorm moved across Eddy County and produced a 68 mph wind gust near Carlsbad.

There was an upper level ridge over the region. Hot and moist conditions were across the area and aided to produce thunderstorms with strong and gusty winds.

TEXAS, West

JEFF DAVIS COUNTY --- 8.0 N FT DAVIS [30.70, -103.88]

	07/01/17 17:35 CST	0		Thunderstorm Wind (MG 56 kt)
	07/01/17 17:35 CST	0		Source: Mesonet

A thunderstorm moved across Jeff Davis County and produced a 65 mph wind gust at McDonald Observatory.

A weakened upper ridge was over the region. There was a cold front/outflow boundary across the area along with a couple of other outflow boundaries which provided a focus for thunderstorm development. Southeast winds resulted in upslope flow along the higher terrain in West Texas and southeast New Mexico. These southeast winds also resulted in moisture being transported into the area, and daytime heating aiding in lift which created an unstable atmosphere. There was also an area of intense low-level winds, known as a low-level jet, which helped storms continue into the overnight hours. The storms produced severe wind gusts across West Texas and southeast New Mexico.

MIDLAND COUNTY --- 1.8 NNE MIDLAND [32.02, -102.07]

	07/03/17 17:00 CST	1	0	Lightning
	07/03/17 17:00 CST	0		Source: Law Enforcement

A thunderstorm with frequent lightning developed across Midland County and moved across the City of Midland . A 43 year old man was struck by lightning at the 300 block of Maple Avenue and was later declared dead at the hospital .

Direct Fatalities: M43OU

There was an upper disturbance over the Central Plains which weakened an upper ridge over New Mexico/Arizona. Abundant moisture and above normal temperatures were in place across West Texas which created an unstable atmosphere. There was an outflow boundary over the northern Permian Basin which provided a focus for thunderstorm development. These conditions resulted in thunderstorms with frequent lightning across the Permian Basin.

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HOWARD COUNTY --- COAHOMA [32.30, -101.30]				
	07/04/17 15:30 CST		0	Hail (1.00 in)
	07/04/17 15:35 CST		0	Source: Public
HOWARD COUNTY --- 1.0 SE BIG SPRING [32.24, -101.46]				
	07/04/17 16:05 CST		0	Hail (1.00 in)
	07/04/17 16:10 CST		0	Source: Public
UPTON COUNTY --- 1.0 SSW MC CAMEY [31.12, -102.24]				
	07/04/17 19:52 CST		0	Thunderstorm Wind (MG 51 kt)
	07/04/17 19:52 CST		0	Source: Mesonet
A thunderstorm moved across Upton County and produced a 59 mph wind gust near McCamey.				
DAWSON COUNTY --- WELCH [32.92, -102.13]				
	07/04/17 21:02 CST		0	Thunderstorm Wind (MG 50 kt)
	07/04/17 21:02 CST		0	Source: Mesonet
A thunderstorm moved across Dawson County and produced a 58 mph wind gust in Welch.				
GAINES COUNTY --- 2.0 NNE SEMINOLE [32.75, -102.64]				
	07/04/17 21:05 CST		0	Thunderstorm Wind (MG 53 kt)
	07/04/17 21:05 CST		0	Source: Mesonet
A thunderstorm moved across Gaines County and produced a 61 mph wind gust near Seminole.				
WINKLER COUNTY --- 3.0 NW WINK [31.78, -103.19]				
	07/04/17 22:07 CST		0	Thunderstorm Wind (MG 54 kt)
	07/04/17 22:07 CST		0	Source: ASOS
A thunderstorm moved across Winkler County and produced a 62 mph wind gust near Wink.				
SCURRY COUNTY --- 3.0 E SNYDER [32.72, -100.85]				
	07/04/17 22:30 CST		0	Thunderstorm Wind (MG 58 kt)
	07/04/17 22:30 CST		0	Source: Mesonet
A thunderstorm moved across Scurry County and produced a 67 mph wind gust near Snyder.				
<p>An upper ridge was over the southwest part of the country with an upper low over northeast Oklahoma/southwest Missouri. Good moisture, instability, upper lift, and remaining outflow boundaries were across West Texas. These conditions resulted in thunderstorms with large hail and strong winds developing across West Texas.</p>				
PECOS COUNTY --- 2.0 N COYANOSA [31.20, -103.00]				
	07/16/17 17:03 CST		0	Thunderstorm Wind (MG 53 kt)
	07/16/17 17:03 CST		0	Source: Mesonet
A thunderstorm moved across Pecos County and produced a 61 mph wind gust near Coyanosa.				
<p>There was an upper ridge over the southwest part of the country and the Central Plains. Plentiful moisture, daytime heating, and numerous outflow boundaries were across West Texas. These conditions resulted in thunderstorms with strong winds across the area.</p>				
GAINES COUNTY --- 6.9 SW SEAGRAVES [32.86, -102.64], 6.7 SW SEAGRAVES [32.87, -102.64], 6.7 SW SEAGRAVES [32.87, -102.64], 7.0 SW SEAGRAVES [32.86, -102.64]				
	07/21/17 17:52 CST		2K	Flash Flood (due to Heavy Rain)
	07/21/17 20:00 CST		0	Source: Law Enforcement
Heavy rain moved across Gaines County and produced flash flooding about ten miles north of Seminole. There was water over Highway 385/62 near McAdoo Curve. A couple of stalled vehicles were reported. The cost of damage is a very rough estimate.				
GAINES COUNTY --- 5.5 S SEMINOLE ARPT [32.64, -102.74], 5.6 S SEMINOLE ARPT [32.64, -102.74], 5.4 S SEMINOLE ARPT [32.64, -102.74], 5.3 S SEMINOLE ARPT [32.64, -102.74]				

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	07/21/17 18:04 CST		0	Flash Flood (due to Heavy Rain)
	07/21/17 20:00 CST		0	Source: Law Enforcement

Heavy rain moved across Gaines County and produced flash flooding about eight miles southwest of Seminole. There was water over the roadways near Highway 181 and Ranch Road 2885.

An upper ridge was over the southern half of the country. There was good moisture across West Texas. The moisture and hot temperatures allowed for thunderstorms with heavy rainfall and flash flooding to develop across the area.

MIDLAND COUNTY --- 0.7 N (MAF) MIDLAND INTL [31.94, -102.20]				
	07/22/17 16:18 CST		0	Thunderstorm Wind (MG 57 kt)
	07/22/17 16:18 CST		0	Source: ASOS

A thunderstorm moved across Midland County and produced a 66 mph wind gust at Midland International Air and Space Port.

MIDLAND COUNTY --- 2.2 SE MIDLAND [31.97, -102.06], 2.2 SE MIDLAND [31.98, -102.06], 2.0 SE MIDLAND [31.98, -102.06], 1.9 SE MIDLAND [31.98, -102.06]				
	07/22/17 16:18 CST		1K	Flash Flood (due to Heavy Rain)
	07/22/17 17:30 CST		0	Source: Public

Heavy rain fell across Midland County and produced flash flooding two miles south of Midland. There was a stalled vehicle on Lamesa Road off of I-20. The cost of damage is a very rough estimate.

MIDLAND COUNTY --- 3.8 WNW MIDLAND [32.02, -102.14], 2.7 N MIDLAND [32.04, -102.07], 1.5 ESE MIDLAND [32.00, -102.05], 3.0 WSW MIDLAND [31.98, -102.12]				
	07/22/17 16:30 CST		20K	Flash Flood (due to Heavy Rain)
	07/22/17 17:40 CST		0	Source: Law Enforcement

Heavy rain fell across Midland County and produced flash flooding across the City of Midland. There were at least 14 high water rescues reported by law enforcement and emergency management. The cost of damage is a very rough estimate.

CRANE COUNTY --- 0.5 SW CRANE [31.40, -102.36]				
	07/22/17 17:25 CST		7K	Thunderstorm Wind (EG 56 kt)
	07/22/17 17:26 CST		0	Source: Law Enforcement

A thunderstorm moved across Crane County and produced wind damage in the City of Crane . There were downed powerlines at W. 6th Street and Katherine Street. The cost of damage is a very rough estimate.

CRANE COUNTY --- 7.3 N CRANE CO ARPT [31.52, -102.36], 7.3 N CRANE CO ARPT [31.52, -102.35], 12.3 NNE CRANE CO ARPT [31.59, -102.32], 12.1 ENE CRANE J BAR ARPT [31.59, -102.34]				
	07/22/17 18:15 CST		0	Flash Flood (due to Heavy Rain)
	07/22/17 20:15 CST		0	Source: Law Enforcement

Heavy rain produced flash flooding about twelve miles north of Crane. Water was over US Highway 385 between Ranch Road 1233 and Caprock Road roughly ten to fourteen miles north of Crane.

There was a weak upper low over east-central New Mexico and a wind shear axis over the western Permian Basin. This shear axis aided in drawing moisture across the area and helped to produce thunderstorms with strong winds. There were weak upper level winds over the area which contributed to slow storm movement and flash flooding.