

Storm Data and Unusual Weather Phenomena - August 2016

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

EDDY COUNTY --- 3.0 N LAKEWOOD [32.67, -104.37], 3.0 N LAKEWOOD [32.67, -104.37], 1.1 N LAKEWOOD [32.65, -104.37], 1.1 N LAKEWOOD [32.65, -104.37]

08/21/16 09:30 MST	0	Flash Flood (due to Heavy Rain)
08/21/16 10:30 MST	0	Source: Trained Spotter

Heavy rain fell across Eddy County and produced flash flooding about 20 miles north of Carlsbad. There was six inches of water running across County Road 34. No damage was reported.

EDDY COUNTY --- 0.7 ESE HAPPY VLY [32.42, -104.26], 0.8 SE HAPPY VLY [32.41, -104.26], 0.5 S CARLSBAD [32.41, -104.23], 0.3 S CARLSBAD [32.42, -104.23]

08/21/16 10:38 MST	0.50K	Flash Flood (due to Heavy Rain)
08/21/16 12:30 MST	0	Source: Trained Spotter

Heavy rain fell across Eddy County and produced flash flooding in Carlsbad. There was significant ongoing street flooding. Lea Street in Carlsbad was flooded curb to curb six to twelve inches deep at some intersections. The cost of damage is a very rough estimate.

EDDY COUNTY --- 1.6 NNE (CNM)CARLSBAD ARPT [32.35, -104.26], 1.9 ENE (CNM)CARLSBAD ARPT [32.34, -104.24], 2.0 SE CARLSBAD [32.40, -104.21], 1.6 SSE CARLSBAD [32.40, -104.22]

08/21/16 11:08 MST	0.50K	Flash Flood (due to Heavy Rain)
08/21/16 12:40 MST	0	Source: Trained Spotter

Heavy rain fell across Eddy County and produced flash flooding near and on the south side of Carlsbad. There was major flooding of US Highway 62/180 from the Carlsbad Airport north to Walmart in South Carlsbad at the junction of Center Street. The highway was flooded curb to curb six inches to a foot deep. The cost of damage is a very rough estimate.

EDDY COUNTY --- 14.0 WSW CARLSBAD [32.34, -104.45], 10.5 W (CNM)CARLSBAD ARPT [32.33, -104.45], 10.2 W (CNM)CARLSBAD ARPT [32.33, -104.45], 10.4 W (CNM)CARLSBAD ARPT [32.34, -104.45]

08/21/16 12:35 MST	0.50K	Flash Flood (due to Heavy Rain)
08/21/16 15:00 MST	0	Source: COOP Observer

Heavy rain fell across Eddy County and produced flash flooding. A cooperative observer reported one to two feet of water from Last Chance Creek running over the road about twelve miles west of the Cavern City Air Terminal. The cost of damage is a very rough estimate.

EDDY COUNTY --- 2.3 N (CNM)CARLSBAD ARPT [32.36, -104.27], 3.3 NE (CNM)CARLSBAD ARPT [32.37, -104.24], 3.0 S CARLSBAD [32.38, -104.24], 3.0 N (CNM)CARLSBAD ARPT [32.37, -104.27]

08/21/16 19:39 MST	1K	Flash Flood (due to Heavy Rain)
08/21/16 20:40 MST	0	Source: Fire Department/Rescue

Heavy rain fell across Eddy County and produced flash flooding in Carlsbad. County Road 672 in Carlsbad had four to five feet of flowing water across low water crossings. The cost of damage is a very rough estimate.

EDDY COUNTY --- 6.5 WSW (CNM)CARLSBAD ARPT [32.29, -104.37], 6.2 WSW (CNM)CARLSBAD ARPT [32.28, -104.36], 3.9 SW (CNM)CARLSBAD ARPT [32.29, -104.32], 3.7 WSW (CNM)CARLSBAD ARPT [32.30, -104.32]

08/21/16 19:39 MST	1K	Flash Flood (due to Heavy Rain)
08/21/16 23:40 MST	0	Source: Fire Department/Rescue

Heavy rain fell across Eddy County and produced flash flooding southwest of Carlsbad. County Road 408 intersecting with County Road 672 was flooded. The cost of damage is a very rough estimate.

There was an upper trough over the Great Lakes region, and another strengthening upper trough over the southwestern U.S. A cold front had moved through southeast New Mexico the previous day. The upper trough over the southwestern U.S. increased lift over the region, and there was plentiful moisture across the area. These conditions allowed for flash flooding to occur in southeast New Mexico.

EDDY COUNTY --- 3.6 N WHITES CITY [32.22, -104.37], 7.6 WNW WHITES CITY [32.23, -104.48], 11.4 NW WHITES CITY [32.31, -104.48], 6.0 WSW (CNM)CARLSBAD ARPT [32.31, -104.37]

08/23/16 15:10 MST	0	Flash Flood (due to Heavy Rain)
08/23/16 18:30 MST	0	Source: Fire Department/Rescue

Rancher reported a six to seven foot wall of water down Dark Canyon Draw at County Road 408.

Storm Data and Unusual Weather Phenomena - August 2016

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EDDY COUNTY --- 6.8 WNW WHITES CITY [32.22, -104.47], 3.4 N WHITES CITY [32.22, -104.37], 5.3 W (CNM)CARLSBAD ARPT [32.32, -104.36], 13.6 W (CNM)CARLSBAD ARPT [32.34, -104.50]				
	08/23/16 16:30 MST		0	Flash Flood (due to Heavy Rain)
	08/23/16 18:30 MST		0	Source: Emergency Manager
Dark Canyon Road/County Road 408 was closed due to flooding caused by heavy rainfall in the area.				
A rich plume of mid to upper level moisture was across West Texas and southeast New Mexico along with an approaching upper level disturbance. This disturbance increased lift over the region, and plentiful moisture aided in the development of storms with heavy rainfall. These conditions allowed for flash flooding to occur in southeast New Mexico.				
LEA COUNTY --- 0.8 NNW LOVINGTON [32.94, -103.35]				
	08/25/16 15:09 MST		0	Hail (1.00 in)
	08/25/16 15:14 MST		0	Source: Public
There was a subtropical ridge over the southeastern part of the country that was moving westward. Deeper moisture and mid-level disturbances moved across southeast New Mexico along the western periphery of the ridge. A weak frontal boundary was across southeast New Mexico, and it provided a focus for thunderstorm development. Instability across the area allowed for some of these storms to produce large hail.				
LEA COUNTY --- 1.8 NNW HOBBS [32.73, -103.14]				
	08/28/16 20:00 MST		0	Heavy Rain
	08/28/16 20:56 MST		0	Source: Trained Spotter
Heavy rain fell in Hobbs and 4.19 inches was recorded.				
LEA COUNTY --- 1.5 NNW MONUMENT [32.64, -103.28], 2.2 NE MONUMENT [32.64, -103.24], 0.7 NE OIL CENTER [32.51, -103.24], 1.8 WNW OIL CENTER [32.51, -103.28]				
	08/28/16 20:15 MST		1K	Flash Flood (due to Heavy Rain)
	08/28/16 23:30 MST		0	Source: Law Enforcement
Heavy rain fell across Lea County and produced flash flooding. Highway 8 between Hobbs and Eunice has been closed due to high water. The cost of damage is a very rough estimate.				
LEA COUNTY --- 3.1 SE HOBBS IND ARPT [32.74, -103.16], 2.8 NNW HOBBS [32.74, -103.15], 3.0 NNW HOBBS [32.74, -103.15], 2.9 SE HOBBS IND ARPT [32.74, -103.16]				
	08/28/16 20:47 MST		1K	Flash Flood (due to Heavy Rain)
	08/28/16 22:50 MST		0	Source: Law Enforcement
Heavy rain fell across Lea County and produced flash flooding in Hobbs. Joe Harvey Boulevard on the north side of Hobbs was flooded with six to twelve inches of water over the road. The cost of damage is a very rough estimate.				
LEA COUNTY --- 2.5 NNW HOBBS [32.73, -103.15], 2.5 NNW HOBBS [32.73, -103.14], 2.5 NNW HOBBS [32.73, -103.14], 2.5 NNW HOBBS [32.73, -103.15]				
	08/28/16 21:31 MST		0.50K	Flash Flood (due to Heavy Rain)
	08/29/16 00:00 MST		0	Source: Trained Spotter
Heavy rain fell across Lea County and produced flash flooding in Hobbs. There was knee deep water over the road at the intersection of Copper and Grimes in Hobbs. The cost of damage is a very rough estimate.				
LEA COUNTY --- 0.9 WSW JAL [32.12, -103.19], 0.9 WSW JAL [32.12, -103.19], 0.8 WSW JAL [32.12, -103.19], 0.8 WSW JAL [32.12, -103.19]				
	08/28/16 22:15 MST		1K	Flash Flood (due to Heavy Rain)
	08/29/16 00:15 MST		0	Source: Law Enforcement
Heavy rain fell across Lea County and produced flash flooding in Jal. The intersection of Montana and Third Street in Jal had been closed due to high water. The cost of damage is a very rough estimate.				
An upper low over Arizona with southwest winds brought in moisture across West Texas and southeast New Mexico. An upper level jet associated with the upper low helped to provide lift in the atmosphere. A surface trough was over southeast New Mexico, and there were boundaries across the area from thunderstorms the previous evening and night. The trough and boundaries provided a focus for showers and thunderstorms. These conditions resulted in heavy rain and flash flooding that continued into the overnight hours.				
LEA COUNTY --- 3.0 N HOBBS [32.74, -103.13]				

Storm Data and Unusual Weather Phenomena - August 2016

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	08/29/16 06:00 MST		0	Heavy Rain
	08/29/16 08:00 MST		0	Source: Trained Spotter

Heavy rain fell in Hobbs. 4.27 inches of rain was reported three miles north of Bender Boulevard in Hobbs.

An upper low was moving east over New Mexico and deep moisture was moving across southeast New Mexico and West Texas. Lift generated from the upper low combined with surface heating to generate showers and thunderstorms. The plentiful moisture across the area and weak winds aloft contributed to heavy rain.

LEA COUNTY --- 1.6 NNE MALJAMAR [32.87, -103.74], 1.4 NNE MALJAMAR [32.87, -103.74], 1.0 W MALJAMAR [32.85, -103.77], 1.1 WNW MALJAMAR [32.86, -103.77]

08/30/16 07:15 MST	0.50K	Flash Flood (due to Heavy Rain)
08/30/16 11:10 MST	0	Source: Law Enforcement

Heavy rain fell across Lea County and produced flash flooding near Maljamar. Highway 82 was closed between mile markers 115 and 153 in Lea County. The cost of damage is a very rough estimate.

EDDY COUNTY --- 5.8 ENE QUEEN [32.23, -104.64], 6.6 ENE QUEEN [32.23, -104.62], 10.9 NE QUEEN [32.30, -104.59], 10.3 NE QUEEN [32.31, -104.61]

08/30/16 14:14 MST	0.50K	Flash Flood (due to Heavy Rain)
08/30/16 17:00 MST	0	Source: Public

Heavy rain fell across Eddy County and produced flash flooding southwest of Carlsbad. Last Chance Arroyo was flooded resulting in Highway 137 to be impassible. The cost of damage is a very rough estimate.

EDDY COUNTY --- 10.9 NW WHITES CITY [32.27, -104.51], 12.2 NW WHITES CITY [32.28, -104.53], 12.1 NW WHITES CITY [32.31, -104.49], 10.8 NNW WHITES CITY [32.30, -104.47]

08/30/16 14:15 MST	0.50K	Flash Flood (due to Heavy Rain)
08/30/16 17:00 MST	0	Source: Public

Heavy rain fell across Eddy County and produced flash flooding southwest of Carlsbad. Dark Canyon Arroyo was flooded with 20 to 25 foot deep water. The cost of damage is a very rough estimate.

The air mass across the region was very moist and this moisture was being pushed up the higher terrain of southeast New Mexico and West Texas. The atmosphere was very unstable with a deep warm layer. These conditions lead to efficient heavy rain producing storms over areas that had already received good rainfall which resulted in flash flooding across southeast New Mexico.

EDDY COUNTY --- 1.4 WNW ARTESIA [32.83, -104.42]

08/31/16 07:22 MST	0	Heavy Rain
08/31/16 10:45 MST	0	Source: Trained Spotter

Heavy rain fell in Artesia and 1.83 inches of rain was reported on West Ray Avenue. The streets were flooded curb to curb with between three to six inches of water.

EDDY COUNTY --- 2.0 WSW ARTESIA [32.82, -104.43], 2.1 ENE ARTESIA ARPT [32.86, -104.44], 1.6 ENE ILLINOIS CAMP [32.86, -104.37], 1.4 E ARTESIA [32.83, -104.38]

08/31/16 10:01 MST	0.50K	Flash Flood (due to Heavy Rain)
08/31/16 10:45 MST	0	Source: Law Enforcement

Several streets were barricaded in Artesia due to high water from heavy rainfall in the area. The cost of damage is a very rough estimate.

An upper low to the west of the region combined with west winds brought in moisture across West Texas and southeast New Mexico. Easterly upslope winds continued allowing for abundant moisture and rainfall chances across southeast New Mexico. Rainfall over the past several days had also lead to saturated soils and left some areas vulnerable to flash flooding. Thunderstorms developed in the higher terrain with upper level support for organized storms to produce heavy rain and flash flooding that continued into the night.

TEXAS, West

BREWSTER COUNTY --- 2.0 NNW ALPINE [30.40, -103.68]

08/01/16 15:35 CST	0	Thunderstorm Wind (MG 54 kt)
08/01/16 15:36 CST	0	Source: AWOS

A thunderstorm moved across Brewster County and produced a 62 mph wind gust near Alpine.

Storm Data and Unusual Weather Phenomena - August 2016

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There was an upper level ridge centered over the Texas Gulf Coast. Intense surface heating took place across the higher terrain of West Texas which created lift. This instability across the mountains resulted in thunderstorms with strong wind gusts.

BREWSTER COUNTY --- 8.0 S ALPINE [30.25, -103.67]

08/12/16 13:00 CST		0	Heavy Rain
08/12/16 14:00 CST		0	Source: Trained Spotter

Heavy rain fell south of Alpine for around an hour. There was a total of 1.35 inches of rain.

MIDLAND COUNTY --- 1.0 NE (MAF) MIDLAND INTL [31.94, -102.19], 1.0 NE (MAF) MIDLAND INTL [31.94, -102.19], 1.4 NE (MAF) MIDLAND INTL [31.94, -102.18], 1.4 NE (MAF) MIDLAND INTL [31.94, -102.18]

08/12/16 13:31 CST		0	Flash Flood (due to Heavy Rain)
08/12/16 14:30 CST		0	Source: NWS Employee

Heavy rain fell across Midland County and produced flash flooding about eight miles southwest of the City of Midland. There was six inches of water running over the Business 20 service road. No damage was reported.

MIDLAND COUNTY --- 1.9 S MIDLAND [31.97, -102.08], 2.0 S MIDLAND [31.97, -102.08], 1.9 SSE MIDLAND [31.97, -102.07], 1.9 SSE MIDLAND [31.97, -102.07]

08/12/16 14:11 CST		0	Flash Flood (due to Heavy Rain)
08/12/16 15:10 CST		0	Source: Public

Heavy rain fell across Midland County and produced flash flooding in the City of Midland. There was six inches of water running over the intersection of the Interstate 20 service road and Rankin Highway. No damage was reported.

GAINES COUNTY --- 0.4 E SEMINOLE [32.72, -102.64], 1.1 E SEMINOLE [32.72, -102.63], 1.4 ESE SEMINOLE [32.71, -102.63], 0.8 SSE SEMINOLE [32.71, -102.64]

08/12/16 18:00 CST		1.50K	Flash Flood (due to Heavy Rain)
08/12/16 20:00 CST		0	Source: Emergency Manager

Heavy rain fell across Gaines County and produced flash flooding in Seminole. There was a high water rescue on the east side of Seminole. U.S. Highway 180 was closed due to high water. The cost of damage is a very rough estimate.

An upper level trough was over the Rocky Mountains, and an upper ridge was over the southern half of the country. A frontal boundary moved through the Permian Basin during the afternoon hours. There was good moisture across the area, and winds were increasing in the upper atmosphere leading to more lift. These conditions contributed to flash flooding developing across the Permian Basin.

PECOS COUNTY --- 5.0 NNW IMPERIAL RES [31.33, -102.92], 4.0 ENE IMPERIAL RES [31.30, -102.81], 11.7 ESE COYANOSA [31.09, -102.82], 8.1 SSE COYANOSA [31.06, -102.95]

08/23/16 21:00 CST		1.50K	Flash Flood (due to Heavy Rain)
08/24/16 00:00 CST		0	Source: Emergency Manager

State Highway 18 was covered with two to three feet of water from 15 miles north of Fort Stockton to the Pecos River from heavy rainfall. Water rescues were also being performed during this time. Damage costs are a rough estimate.

WINKLER COUNTY --- KERMIT [31.85, -103.08]

08/23/16 21:00 CST		7K	Thunderstorm Wind (EG 61 kt)
08/23/16 21:01 CST		0	Source: Public

A thunderstorm moved across Winkler County and produced wind damage in Kermit. A roof was blown off of a building. The cost of damage is a very rough estimate.

REEVES COUNTY --- PECOS MUNI ARPT [31.38, -103.50]

08/24/16 01:33 CST		0	Thunderstorm Wind (MG 50 kt)
08/24/16 01:33 CST		0	Source: AWOS

A thunderstorm moved across Reeves County and produced a 58 mph wind gust at the Pecos Municipal Airport.

A rich plume of mid to upper level moisture was across West Texas and southeast New Mexico along with an approaching upper level disturbance. This disturbance increased lift over the region, and plentiful moisture aided in the development of storms with heavy rainfall. These conditions allowed for flash flooding and strong winds to occur in West Texas.

GAINES COUNTY --- 7.2 SW SEAGRAVES [32.86, -102.64], 6.8 SW SEAGRAVES [32.86, -102.64], 5.8 SW SEAGRAVES [32.88, -102.63], 6.2 WSW SEAGRAVES [32.88, -102.64]

Storm Data and Unusual Weather Phenomena - August 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	08/28/16 20:30 CST		5K	Flash Flood (due to Heavy Rain)
	08/28/16 22:30 CST		0	Source: Public

Heavy rain fell across Gaines County and produced flash flooding north of Seminole. Six to twelve inches of water was running over Highway 62/385 ten to twelve miles north of Seminole. Motorists were stuck in high water. The cost of damage is a very rough estimate.

GAINES COUNTY --- 23.0 W SEMINOLE [32.72, -103.05], 12.3 SSW HIGGINBOTHAM [32.73, -103.05], 12.7 SSW HIGGINBOTHAM [32.73, -103.06], 13.3 SSW HIGGINBOTHAM [32.72, -103.06]

08/28/16 21:00 CST	5K	Flash Flood (due to Heavy Rain)
08/28/16 23:00 CST	0	Source: Law Enforcement

Heavy rain fell across Gaines County and produced flash flooding east of Seminole. Motorists were stuck in high water on Highway 62/180 about 23 to 24 miles west of Seminole. The cost of damage is a very rough estimate.

GAINES COUNTY --- 0.1 E SEMINOLE [32.72, -102.65], 0.9 E SEMINOLE [32.72, -102.64], 0.9 ESE SEMINOLE [32.71, -102.64], 0.2 SE SEMINOLE [32.72, -102.65]

08/28/16 21:09 CST	1K	Flash Flood (due to Heavy Rain)
08/28/16 23:10 CST	0	Source: Law Enforcement

Heavy rain fell across Gaines County and produced flash flooding in Seminole. Highway 180 on the east side of Seminole was flooded with six to twelve inches of water flowing over the road. The cost of damage is a very rough estimate.

GAINES COUNTY --- 0.3 E SEMINOLE [32.72, -102.64], 0.8 E SEMINOLE [32.72, -102.64], 0.9 ESE SEMINOLE [32.71, -102.64], 0.3 ESE SEMINOLE [32.72, -102.64]

08/28/16 23:21 CST	1K	Flash Flood (due to Heavy Rain)
08/29/16 02:30 CST	0	Source: Law Enforcement

Heavy rain fell across Gaines County and produced flash flooding in Seminole. Highway 180 on the east side of Seminole was completely flooded and was closed. The cost of damage is a very rough estimate.

ANDREWS COUNTY --- 10.0 NE ANDREWS [32.42, -102.43], 7.4 ENE FLOREY [32.50, -102.47], 5.4 NE FLOREY [32.49, -102.50], 8.3 NE ANDREWS CO ARPT [32.42, -102.44]

08/29/16 01:00 CST	1K	Flash Flood (due to Heavy Rain)
08/29/16 03:30 CST	0	Source: Law Enforcement

Heavy rain fell across Andrews County and produced flash flooding northeast of the City of Andrews. The Andrews County Sheriff's Office reported two feet of water running over the intersection of Ranch Road 1788 and 7100, about ten to eleven miles northeast of the City of Andrews. The cost of damage is a very rough estimate.

An upper low over Arizona with southwest winds brought in moisture across West Texas and southeast New Mexico. An upper level jet associated with the upper low helped to provide lift in the atmosphere. A surface trough was over southeast New Mexico, and there were boundaries across the area from thunderstorms the previous evening and night. The trough and boundaries provided a focus for showers and thunderstorms. These conditions resulted in heavy rain and flash flooding that continued into the overnight hours.

GAINES COUNTY --- 2.0 S SEMINOLE [32.69, -102.65], 2.1 SSE SEMINOLE [32.69, -102.64], 0.5 ESE SEMINOLE [32.72, -102.64], 0.2 SE SEMINOLE [32.72, -102.65]

08/29/16 13:41 CST	0.50K	Flash Flood (due to Heavy Rain)
08/29/16 16:00 CST	0	Source: Trained Spotter

Heavy rain fell across Gaines County and produced flash flooding in and near Seminole. A spotter reported Highway 385 near Seminole impassable due to flooding. The cost of damage is a very rough estimate.

ANDREWS COUNTY --- 5.2 WSW ANDREWS [32.28, -102.63], 7.1 E ANDREWS CO ARPT [32.31, -102.41], 9.7 SE ANDREWS CO ARPT [32.25, -102.40], 11.4 SW ANDREWS [32.22, -102.70]

08/29/16 14:30 CST	1K	Flash Flood (due to Heavy Rain)
08/29/16 16:30 CST	0	Source: Law Enforcement

Heavy rain fell across Andrews County and produced flash flooding near the City of Andrews. The Andrews Police Department reported Road SE 3000 on the southeast side of Andrews to be closed due to high water. Parts of US 385 and 115 also were closed. The cost of damage is a very rough estimate.

An upper low was moving east over New Mexico and deep moisture was moving across southeast New Mexico and West Texas. Lift generated from the upper low combined with surface heating to generate showers and thunderstorms. The plentiful moisture across the area and weak winds aloft contributed to heavy rain and flash flooding.