

Storm Data and Unusual Weather Phenomena - March 2020

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

(NM-Z027) GUADALUPE MOUNTAINS OF EDDY COUNTY

	03/27/20 11:00 MST		0	High Wind (MAX 61 kt)
	03/28/20 00:00 MST		0	

A deep upper level trough digging into the Four Corners Region brought strong winds to the Guadalupe Mountains.

TEXAS, West

MIDLAND COUNTY --- 0.6 ENE WARFIELD [31.92, -102.22], 0.6 E WARFIELD [31.92, -102.22], 0.8 E WARFIELD [31.92, -102.22], 0.7 ENE WARFIELD [31.92, -102.22]

	03/04/20 09:16 CST		0.50K	Flash Flood (due to Heavy Rain)
	03/04/20 12:00 CST		0	Source: Department of Highways

Heavy rain fell across Midland County and produced flash flooding. There was a road closure at the 349 and Business 20 underpass. The cost of damage is a very rough estimate.

MARTIN COUNTY --- 11.9 WSW TARZAN [32.22, -102.15], 12.6 SW TARZAN [32.18, -102.14], 11.4 SW TARZAN [32.19, -102.12], 10.6 WSW TARZAN [32.22, -102.13]

	03/04/20 10:33 CST		0.50K	Flash Flood (due to Heavy Rain)
	03/04/20 13:00 CST		0	Source: Department of Highways

Heavy rain fell across Martin County and produced flash flooding. There was a lane closure on SH 349 due to high water in the passing lane. The cost of damage is a very rough estimate.

MIDLAND COUNTY --- 3.5 E MIDLAND [32.00, -102.02], 3.6 E MIDLAND [32.00, -102.02], 3.7 E MIDLAND [32.00, -102.02], 3.6 E MIDLAND [32.00, -102.02]

	03/04/20 12:03 CST		0.50K	Flash Flood (due to Heavy Rain)
	03/04/20 14:00 CST		0	Source: Department of Highways

Heavy rain fell across Midland County and produced flash flooding. FM 307 was closed at Interstate 20. The cost of damage is a very rough estimate.

There was an upper level low over far West Texas which provided atmospheric lift. An abundance of moisture was across the area. The lift and moisture combined to produce rain which resulted in flash flooding across the Permian Basin.

REEVES COUNTY --- 5.8 W ARNO [31.66, -103.73]

	03/13/20 18:50 CST		0.50M	Thunderstorm Wind (EG 113 kt)
	03/13/20 18:53 CST	1	0	Source: NWS Storm Survey

A thunderstorm developed over eastern Culberson County and moved east northeast into northern Reeves County. This storm strengthened as it moved into Reeves County and produced significant damage to the Highway 285 RV Park about 15 miles southeast of Orla. It was determined by a National Weather Service survey team that damage to the RV park was the result of rear-flank downdraft winds which was a straight-line wind event. The survey team estimated the wind speeds to be 100-130 miles per hour based on damage to the RV park. This was based on damage to trailers, outbuildings, vehicles, and other structures. It was determined that the swath of damaging winds was around 300 yards wide and 0.75 miles in length. There was one major injury related to this event. The cost of damage is a very rough estimate.

REEVES COUNTY --- 49.0 N BALMORHEA [31.69, -103.73], 4.5 NNW ARNO [31.71, -103.66]

	03/13/20 18:53 CST		0	Tornado (EFU, L: 4.48 mi , W: 300 yd)
	03/13/20 18:57 CST		0	Source: NWS Storm Survey

A thunderstorm in Reeves County produced a tornado about eight miles west of Mentone. A National Weather Service survey team was unable to locate damage directly caused by the tornado due to poor road networks. Photos provided by the public and emergency management suggested that the tornado was significant, however due to a lack of damage indicators, the survey team was unable to determine a path and intensity. Thus, the tornado was rated an EF-U. It was estimated that the tornado traveled roughly 12 miles before lifting from storm spotter reports and radar signatures. The tornado started in Reeves County and moved east into Loving County. It lifted before reaching Highway 302 and moved just north of Mentone.

LOVING COUNTY --- 3.5 WNW MENTONE [31.71, -103.66], 2.0 NNE MENTONE [31.72, -103.58]

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	03/13/20 18:57 CST		0	Tornado (EFU, L: 4.49 mi , W: 300 yd)
	03/13/20 19:02 CST		0	Source: NWS Storm Survey

A thunderstorm in Reeves County produced a tornado about eight miles west of Mentone. A National Weather Service survey team was unable to locate damage directly caused by the tornado due to poor road networks. Photos provided by the public and emergency management suggested that the tornado was significant, however due to a lack of damage indicators, the survey team was unable to determine a path and intensity. Thus, the tornado was rated an EF-U. It was estimated that the tornado traveled roughly 12 miles before lifting from storm spotter reports and radar signatures. The tornado started in Reeves County and moved east into Loving County. It lifted before reaching Highway 302 and moved just north of Mentone.

WARD COUNTY --- 1.9 NNW BARSTOW [31.47, -103.41], 2.3 NNW BARSTOW [31.48, -103.41]

03/13/20 19:13 CST	50K	Tornado (EF1, L: 0.47 mi , W: 20 yd)
03/13/20 19:14 CST	0	Source: NWS Storm Survey

A thunderstorm developed over western Reeves County and moved northeast into Ward County. It produced a bowl-shaped tornado just north of Barstow. The tornado developed about a mile northwest of Barstow at the intersection of County Road 140 and 145 and only lasted for about a minute. Power flashes were reported along with damage to northern portions of Barstow. The tornado snapped a utility pole before moving and hitting an RV park. Damage at the park included flipping a trailer on its side, damaging a pickup truck, and causing light damage to three other trailers. Wind speeds were estimated at 100 mph from the damage observed by the NWS survey team which helped classify the tornado as an EF-1. In addition to the damage observed by the survey team, spotters and the public provided visual evidence that a tornado occurred. The path length of the tornado was 0.47 miles and the path width was 20 yards. The cost of damage is a very rough estimate.

An upper level low over southern California moved east and developed into an upper trough over Arizona and New Mexico. An upper level jet stream moved over West Texas and produced more lift in the atmosphere. A cold front moved south into the area and stalled near the Pecos River. There was moderate instability and high moisture and wind shear across the area. These conditions resulted in thunderstorms that produced tornadoes and wind damage near the Pecos River.



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<i>A thunderstorm produced wind damage at an RV park near Orla. There was damage to trailers, outbuildings, vehicles, and other structures. Wind speeds were estimated to be 100-130 mph based on the damage. Photo is courtesy of the local Sheriff's office.</i>				
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PECOS COUNTY --- 1.9 SE FT STOCKTON ARPT FST [30.90, -102.90], 1.6 W FT STOCKTON [30.88, -102.90], 0.3 NW FT STOCKTON [30.88, -102.87], 1.5 N FT STOCKTON [30.90, -102.87]	03/15/20 15:06 CST		0.50K	Flash Flood (due to Heavy Rain)
	03/15/20 17:30 CST		0	Source: Emergency Manager
Heavy rain produced flash flooding in Fort Stockton. The roadways in Fort Stockton were flooded, especially the low water crossings. The cost of damage is a very rough estimate.				
An upper level low was over the northern California coast and an upper level disturbance was nearing West Texas. There was also abundant low-level moisture, an east upslope wind, high instability, and strong wind shear across West Texas. These conditions contributed to heavy rain and flash flooding in Fort Stockton. There was flooding on the roadways in Fort Stockton, especially in the low water crossings.				
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HOWARD COUNTY --- 3.0 SSW BIG SPRING [32.21, -101.49]	03/18/20 16:55 CST		0	Thunderstorm Wind (MG 50 kt)
	03/18/20 16:55 CST		0	Source: AWOS
A thunderstorm moved across Howard County and produced a 58 mph wind gust three miles south southwest of Big Spring at the AWOS site.				
An upper level trough was over the west coast with upper lift and upper disturbances from this trough extending over West Texas. There was high wind shear across the area as well as a dryline across the Permian Basin which provided a focus for thunderstorm development. These conditions resulted in a thunderstorm that produced a severe wind gust in the Permian Basin.				
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(TX-Z270) GUADALUPE MOUNTAINS ABOVE 7000 FEET, (TX-Z271) GUADALUPE AND DELAWARE MOUNTAINS	03/19/20 00:38 CST		0	High Wind (MAX 56 kt)
	03/19/20 05:38 CST		0	
A deep upper low over the western U.S. brought strong west winds to the Guadalupe Mountains.				
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(TX-Z271) GUADALUPE AND DELAWARE MOUNTAINS	03/20/20 07:51 CST		0	High Wind (MAX 35 kt)
	03/20/20 10:51 CST		0	
Cold air building behind a strong cold front brought gusty northeast winds to Guadalupe Pass.				
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(TX-Z270) GUADALUPE MOUNTAINS ABOVE 7000 FEET, (TX-Z271) GUADALUPE AND DELAWARE MOUNTAINS	03/23/20 15:51 CST		0	High Wind (MAX 58 kt)
	03/23/20 21:51 CST		0	
Westerly winds from the upper level jet stream mixed down into the Guadalupe Mountains causing strong winds in the higher elevations.				
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(TX-Z270) GUADALUPE MOUNTAINS ABOVE 7000 FEET, (TX-Z271) GUADALUPE AND DELAWARE MOUNTAINS	03/24/20 03:38 CST		0	High Wind (MAX 58 kt)
	03/24/20 15:51 CST		0	
An upper jet stream remained in the area for a second day causing strong winds to redevelop in the Guadalupe Mountains.				
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(TX-Z270) GUADALUPE MOUNTAINS ABOVE 7000 FEET, (TX-Z271) GUADALUPE AND DELAWARE MOUNTAINS	03/27/20 07:51 CST		0	High Wind (MAX 73 kt)
	03/28/20 01:38 CST		0	
A deep upper level trough digging into the Four Corners Region brought strong winds to the Guadalupe Mountains.				
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(TX-Z270) GUADALUPE MOUNTAINS ABOVE 7000 FEET, (TX-Z271) GUADALUPE AND DELAWARE MOUNTAINS	03/30/20 11:38 CST		0	High Wind (MAX 56 kt)
	03/30/20 14:51 CST		0	

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A fast moving upper trough moved across the southwestern U.S. and into the southern plains causing strong winds in the Guadalupe Mountains.