

Storm Data and Unusual Weather Phenomena - March 2019

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

03/07/19 16:00 MST	0	High Wind (MAX 52 kt)
03/07/19 21:00 MST	0	

Stronger winds aloft from an upper trough mixed down to the surface resulting in high winds in the Guadalupe Mountains.

(NM-Z027) GUADALUPE MOUNTAINS OF EDDY COUNTY, (NM-Z028) EDDY COUNTY PLAINS

03/08/19 18:15 MST	0	High Wind (MAX 58 kt)
03/09/19 04:00 MST	0	

Strong winds developed in the Guadalupe Mountains with the passage of an upper level storm system.

EDDY COUNTY --- 30.0 SW CARLSBAD [32.11, -104.59]

03/12/19 16:45 MST	0	Hail (1.75 in)
03/12/19 16:50 MST	0	Source: Park/Forest Service

EDDY COUNTY --- 1.6 NE (CNM)CARLSBAD ARPT [32.35, -104.25]

03/12/19 17:01 MST	3K	Thunderstorm Wind (EG 65 kt)
03/12/19 17:02 MST	0	Source: Trained Spotter

A thunderstorm moved across Eddy County and produced wind damage near Carlsbad. Power lines were knocked down on Sierra Vista Drive next to Carlsbad Airport. The cost of damage is a very rough estimate.

EDDY COUNTY --- CARLSBAD [32.42, -104.23]

03/12/19 17:01 MST	0	Thunderstorm Wind (MG 66 kt)
03/12/19 17:01 MST	0	Source: ASOS

A thunderstorm moved across Eddy County and produced a 76 mph wind gust in Carlsbad.

EDDY COUNTY --- CARLSBAD [32.42, -104.23]

03/12/19 17:03 MST	0	Hail (1.00 in)
03/12/19 17:10 MST	0	Source: COOP Observer

EDDY COUNTY --- 3.1 S MALAGA [32.18, -104.08], 11.6 ENE LOVING [32.34, -103.91]

03/12/19 17:08 MST	20K	Tornado (EF2, L: 14.70 mi , W: 880 yd)
03/12/19 17:30 MST	0	Source: NWS Storm Survey

A thunderstorm moved across Eddy County and produced a tornado south of Malaga. Based on radar imagery, the tornado appeared to develop just west of U.S. Highway 285, approximately two to three miles south of Malaga and progressed northeast. The exact path could not be determined during a survey due to the tornado's containment within private lands, without roads to access the potential path. With insufficient ground information, the wooden electric power poles along Highway 285 were the only damage indicators available to assess tornado intensity. Based on radar information, it appears the Malaga tornado formed at approximately 6:08 pm MDT, just southwest of the power poles on Highway 285 and lifted around 6:30 pm MDT (nearly crossing NM Highway 128, 3 miles east of junction with NM Highway 31) covering a distance of 15 miles. Damaged power poles along Highway 285 were located slightly further south than was indicated on radar, 3.75 miles to 4.05 miles south of Malaga. This was used as a starting point. With the tornado crossing the power poles at approximately a 45-degree angle, the width of the tornado was estimated at a half mile. Approximately ten power poles that were damaged to some degree as the tornado crossed Highway 285. The observed damage is consistent with damage of an EF2 tornado, with winds estimated at approximately 112 mph. The cost of damage is a very rough estimate.

EDDY COUNTY --- LOVING [32.28, -104.10]

03/12/19 17:11 MST	1K	Hail (1.75 in)
03/12/19 17:18 MST	0	Source: Emergency Manager

A thunderstorm moved across Eddy County and produced golfball sized hail in Loving. The hail cracked a windshield and dented a vehicle. The cost of damage is a very rough estimate.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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LEA COUNTY --- 8.1 SE BUCKEYE [32.69, -103.38]	03/12/19 18:16 MST		0	Hail (1.00 in)
	03/12/19 18:21 MST		0	Source: Amateur Radio

A strong upper low was over Arizona with the associated upper trough beginning to move over West Texas and southeast New Mexico providing lift. Plentiful moisture was across the area as well as good wind shear. Instability was kept lower across most of the area for much of the day due to persistent cloud cover, but the cloud cover cleared out across western portions of the area later in the day which increased instability. Low cloud bases were present and there was rotational spin in the atmosphere. These conditions resulted in severe thunderstorms with large hail, strong winds, and tornadoes.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
 A photograph showing a flooded area with debris in the foreground and utility poles in the background. The water is dark and turbulent, with a large amount of brown, fibrous debris floating on the surface. In the background, there are several utility poles with power lines, some of which appear to be leaning or damaged. There are also some buildings, including a large white one with a red roof on the left and a yellow one on the right. The sky is overcast and grey.				

Storm Data and Unusual Weather Phenomena - March 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
				

A thunderstorm moved across Eddy County and produced wind damage near Carlsbad. Power lines were knocked down on Sierra Vista Drive next to Carlsbad Airport. Photo is courtesy of Wendell Malone.

(NM-Z027) GUADALUPE MOUNTAINS OF EDDY COUNTY, (NM-Z028) EDDY COUNTY PLAINS, (NM-Z029) NORTHERN LEA COUNTY, (NM-Z033) CENTRAL LEA COUNTY

03/12/19 18:00 MST	0		High Wind (MAX 66 kt)
03/13/19 23:00 MST	0		

A powerful storm system moved through the area resulting in strong, damaging winds. This was one of the strongest, widespread wind events in years for West Texas and Southeast New Mexico.

TEXAS, West

(TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY

03/07/19 15:50 MST	0		High Wind (MAX 57 kt)
03/07/19 20:00 MST	0		

Stronger winds aloft from an upper trough mixed down to the surface resulting in high winds in the Guadalupe Mountains.

(TX-Z074) DAVIS / APACHE MOUNTAINS AREA, (TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY

03/08/19 14:00 MST	0		High Wind (MAX 71 kt)
03/09/19 07:30 MST	0		

(TX-Z074) DAVIS / APACHE MOUNTAINS AREA, (TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY

03/09/19 01:00 CST	0		High Wind (MAX 71 kt)
03/09/19 06:50 CST	0		

Strong winds developed in the Guadalupe Mountains with the passage of an upper level storm system.

(TX-Z045) GAINES, (TX-Z046) DAWSON, (TX-Z047) BORDEN, (TX-Z048) SCURRY, (TX-Z050) ANDREWS, (TX-Z051) MARTIN, (TX-Z052) HOWARD, (TX-Z053) MITCHELL, (TX-Z057) VAN HORN & HWY 54 CORRIDOR, (TX-Z058) REEVES COUNTY AND UPPER TRANS PECOS, (TX-Z059) LOVING, (TX-Z060) WINKLER, (TX-Z061) ECTOR, (TX-Z062) MIDLAND, (TX-Z063) GLASSCOCK, (TX-Z067) WARD, (TX-Z068) CRANE, (TX-Z074) DAVIS / APACHE MOUNTAINS AREA, (TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY

03/12/19 17:30 MST	0		High Wind (MAX 90 kt)
03/14/19 11:00 MST	0		

(TX-Z045) GAINES, (TX-Z046) DAWSON, (TX-Z047) BORDEN, (TX-Z048) SCURRY, (TX-Z050) ANDREWS, (TX-Z051) MARTIN, (TX-Z052) HOWARD, (TX-Z053) MITCHELL, (TX-Z057) VAN HORN & HWY 54 CORRIDOR, (TX-Z058) REEVES COUNTY AND UPPER TRANS PECOS, (TX-Z059) LOVING, (TX-Z060) WINKLER, (TX-Z061) ECTOR, (TX-Z062) MIDLAND, (TX-Z063) GLASSCOCK, (TX-Z067) WARD, (TX-Z068) CRANE, (TX-Z074) DAVIS / APACHE MOUNTAINS AREA, (TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY

03/12/19 22:00 CST	0		High Wind (MAX 90 kt)
03/14/19 03:00 CST	0		

A powerful storm system moved through the area resulting in strong, damaging winds. This was one of the strongest, widespread wind events in years for West Texas and Southeast New Mexico.

CULBERSON COUNTY --- 3.0 ENE VAN HORN [31.07, -104.77]

03/12/19 18:34 CST	0		Thunderstorm Wind (MG 51 kt)
03/12/19 18:34 CST	0		Source: Mesonet

A thunderstorm moved across Culberson County and produced a 59 mph wind gust near Van Horn.

REEVES COUNTY --- 23.0 SSE ORLA [31.51, -103.75]

03/12/19 18:38 CST	0		Hail (1.00 in)
03/12/19 18:43 CST	0		Source: Trained Spotter

Storm Data and Unusual Weather Phenomena - March 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
REEVES COUNTY --- 14.0 SSW ORLA [31.63, -103.99]				
	03/12/19 18:45 CST		0	Hail (1.00 in)
	03/12/19 18:50 CST		0	Source: Trained Spotter
PRESIDIO COUNTY --- 1.0 WNW RYAN [30.43, -104.30]				
	03/12/19 19:01 CST		0	Hail (1.00 in)
	03/12/19 19:06 CST		0	Source: Other Federal Agency
A thunderstorm moved across Presidio County and produced one inch hail near Ryan at the Aerostat site northwest of Marfa.				
REEVES COUNTY --- 1.0 W PECOS [31.42, -103.50]				
	03/12/19 19:01 CST		3K	Thunderstorm Wind (EG 65 kt)
	03/12/19 19:02 CST		0	Source: Amateur Radio
A thunderstorm moved across Reeves County and produced damage near Pecos. Roof and structural damage was reported approximately one half mile west of the Pecos Airport. The time was estimated from radar and the wind speed was estimated. The cost of damage is a very rough estimate.				
WARD COUNTY --- 21.0 W PYOTE [31.53, -103.49]				
	03/12/19 19:15 CST		3K	Hail (2.75 in)
	03/12/19 19:20 CST		0	Source: Trained Spotter
A thunderstorm moved across Ward County and produced baseball sized hail seven miles north of Pecos. Baseball sized hail was observed along County Road 200 north of Pecos. The hail severely damaged a vehicle. The cost of damage is a very rough estimate.				
REEVES COUNTY --- 2.0 N PECOS [31.45, -103.48]				
	03/12/19 19:16 CST		0	Funnel Cloud
	03/12/19 19:18 CST		0	Source: Public
Two funnel clouds were spotted north of Pecos.				
WARD COUNTY --- 6.0 NW BARSTOW [31.51, -103.47]				
	03/12/19 19:16 CST		4K	Hail (2.75 in)
	03/12/19 19:21 CST		0	Source: Trained Spotter
A thunderstorm moved across Ward County and produced baseball sized hail six miles north of Pecos. The hail destroyed a vehicle. The cost of damage is a very rough estimate.				
REEVES COUNTY --- 23.0 SSE ORLA [31.51, -103.75]				
	03/12/19 19:18 CST		0	Hail (1.00 in)
	03/12/19 19:23 CST		0	Source: Trained Spotter
JEFF DAVIS COUNTY --- 11.1 NW FT DAVIS [30.68, -104.03]				
	03/12/19 19:30 CST		0	Thunderstorm Wind (MG 69 kt)
	03/12/19 19:30 CST		0	Source: COOP Observer
A thunderstorm moved across Jeff Davis County and produced a 79 mph wind gust at the McDonald Observatory.				
PRESIDIO COUNTY --- MARFA [30.32, -104.02]				
	03/12/19 19:33 CST		0	Thunderstorm Wind (MG 52 kt)
	03/12/19 19:33 CST		0	Source: ASOS
A thunderstorm moved across Presidio County and produced a 60 mph wind gust in Marfa.				
PRESIDIO COUNTY --- 1.0 ESE MARFA [30.31, -104.00]				
	03/12/19 19:35 CST		0	Thunderstorm Wind (MG 63 kt)
	03/12/19 19:35 CST		0	Source: Public
A thunderstorm moved across Presidio County and produced a 73 mph wind gust one mile east southeast of Marfa.				
REEVES COUNTY --- 2.0 W PECOS [31.42, -103.51]				

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	03/12/19 19:35 CST		0	Thunderstorm Wind (MG 51 kt)
	03/12/19 19:35 CST		0	Source: ASOS

A thunderstorm moved across Reeves County and produced a 59 mph wind gust in Pecos.

CRANE COUNTY --- 1.0 NNW CRANE [31.41, -102.36]

	03/12/19 19:38 CST		0	Thunderstorm Wind (MG 54 kt)
	03/12/19 19:38 CST		0	Source: Mesonet

A thunderstorm moved across Crane County and produced a 62 mph wind gust one mile north northwest of Crane.

LOVING COUNTY --- 11.1 ENE MENTONE [31.77, -103.43]

	03/12/19 19:40 CST		0	Hail (1.25 in)
	03/12/19 19:45 CST		0	Source: Trained Spotter

ANDREWS COUNTY --- 2.5 ESE ANDREWS CO ARPT [32.32, -102.49], 3.0 E ANDREWS CO ARPT [32.33, -102.48]

	03/12/19 20:55 CST		0.40M	Tornado (EF1, L: 0.81 mi , W: 880 yd)
	03/12/19 21:01 CST		0	Source: NWS Storm Survey

A line of thunderstorms moved across Andrews County with small circulations called meso-vortices along this line. By 9:51 pm CDT, as the storm crossed Highway 385 south of Andrews, the presence of a hook echo was noted on radar. The survey team noted that damage extended from along County Road 2601 from SE 650 Road to SE 1000 Road, and then northeastward to just north of Hamrick Loop. The survey team also noted the majority of the damage coincided with the radar location of the meso-circulation and hook echo. The survey team determined that the damage was the result of a tornado. Damage to outbuildings, residential structures, power poles, and to a 300-foot transmission tower suggest that the most significant damage is indicative of a moderate to high end EF-1 tornado, with wind speeds estimated at 80-100 mph. The tornado was estimated to be 1/5 mile wide. Based on radar and damage information, it is believed that the tornado had a life span of 6 minutes, from approximately 9:55 pm to 10:01 pm. The cost of damage is a very rough estimate.

CULBERSON COUNTY --- 52.0 N KENT [31.82, -104.22]

	03/12/19 21:25 CST		0	Thunderstorm Wind (MG 56 kt)
	03/12/19 21:25 CST		0	Source: Public

A thunderstorm moved across Culberson County and produced a 64 mph wind gust nineteen miles west southwest of Red Bluff.

JEFF DAVIS COUNTY --- 10.6 NW FT DAVIS [30.67, -104.02]

	03/12/19 21:25 CST		0	Thunderstorm Wind (MG 69 kt)
	03/12/19 21:25 CST		0	Source: COOP Observer

A thunderstorm moved across Jeff Davis County and produced a 79 mph wind gust at McDonald Observatory.

PECOS COUNTY --- FT STOCKTON [30.88, -102.87]

	03/12/19 21:32 CST		0	Thunderstorm Wind (MG 56 kt)
	03/12/19 21:32 CST		0	Source: ASOS

A thunderstorm moved across Pecos County and produced a 64 mph wind gust in Fort Stockton.

DAWSON COUNTY --- 3.1 WNW LAMESA JOHNSON ARPT [32.79, -102.00]

	03/12/19 21:39 CST		20K	Thunderstorm Wind (EG 65 kt)
	03/12/19 21:40 CST		0	Source: Trained Spotter

A thunderstorm moved across Dawson County and produced wind damage five miles north northwest of Lamesa. There were multiple power poles snapped at the base and leaning over the road. The time was estimated from radar and the wind speed was estimated. The cost of damage is a very rough estimate.

DAWSON COUNTY --- 2.0 SE LAMESA [32.71, -101.93]

	03/12/19 21:45 CST		0	Thunderstorm Wind (MG 68 kt)
	03/12/19 21:45 CST		0	Source: Mesonet

A thunderstorm moved across Dawson County and produced a 78 mph wind gust two miles southeast of Lamesa.

DAWSON COUNTY --- 3.0 NE LAMESA [32.76, -101.91]

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	03/12/19 21:55 CST		0	Thunderstorm Wind (MG 50 kt)
	03/12/19 21:55 CST		0	Source: AWOS

A thunderstorm moved across Dawson County and produced a 58 mph wind gust three miles northeast of Lamesa.

HOWARD COUNTY --- BIG SPRING [32.25, -101.47]

	03/12/19 22:25 CST		0	Thunderstorm Wind (MG 56 kt)
	03/12/19 22:25 CST		0	Source: Amateur Radio

A thunderstorm moved across Howard County and produced a 64 mph wind gust in Big Spring.

MIDLAND COUNTY --- 0.7 E MIDLAND [32.00, -102.07]

	03/12/19 22:27 CST		2K	Thunderstorm Wind (EG 61 kt)
	03/12/19 22:28 CST		0	Source: Amateur Radio

A thunderstorm moved across Midland County and produced wind damage in the City of Midland. A power pole snapped at East Front Street and Terrell Street in Midland. The cost of damage is a rough estimate.

BORDEN COUNTY --- 2.0 ESE GAIL [32.76, -101.40]

	03/12/19 22:30 CST		0	Thunderstorm Wind (MG 50 kt)
	03/12/19 22:30 CST		0	Source: Mesonet

A thunderstorm moved across Borden County and produced a 58 mph wind gust two miles east southeast of Gail.

HOWARD COUNTY --- 4.0 SW BIG SPRING [32.21, -101.52]

	03/12/19 22:35 CST		0	Thunderstorm Wind (MG 50 kt)
	03/12/19 22:35 CST		0	Source: AWOS

A thunderstorm moved across Howard County and produced a 58 mph wind gust four miles southwest of Big Spring.

REAGAN COUNTY --- 28.0 N BEST [31.64, -101.63]

	03/12/19 22:35 CST		0	Thunderstorm Wind (MG 55 kt)
	03/12/19 22:35 CST		0	Source: Mesonet

A thunderstorm moved across Reagan County and produced a 63 mph wind gust five miles southwest of St. Lawrence.

SCURRY COUNTY --- 3.2 S UNION [32.68, -101.01], 2.8 N SNYDER [32.76, -100.90]

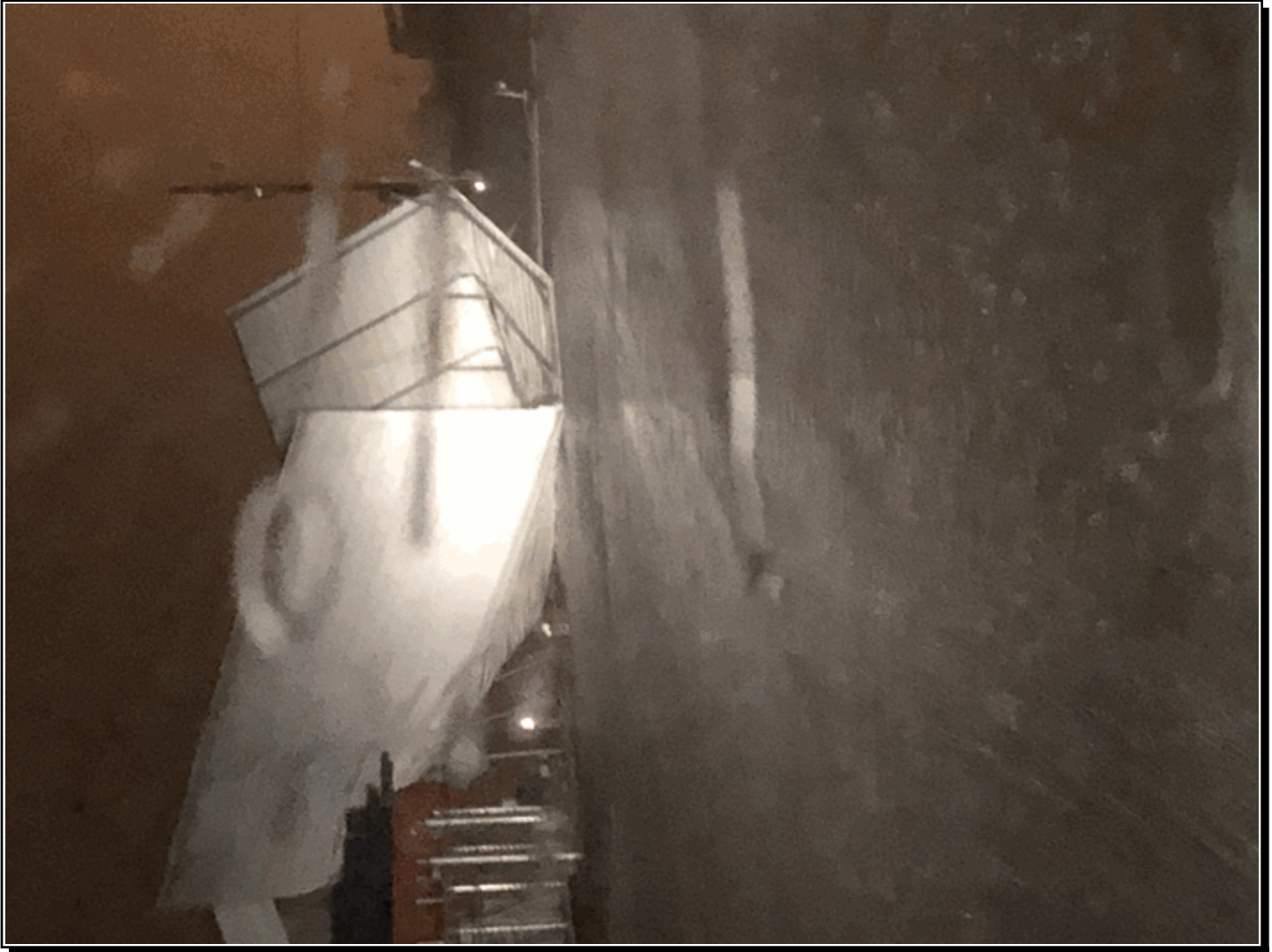
	03/12/19 23:00 CST		0.10M	Thunderstorm Wind (EG 83 kt)
	03/12/19 23:07 CST		0	Source: NWS Storm Survey

A thunderstorm moved across Scurry County and produced wind damage near Snyder. A storm survey was done and the first indications of damage were southwest of Snyder, just west of Highway 351 and approximately 2 miles south of Highway 180. From this location, the swath of damage extended northeastward across the city of Snyder for nearly 4 miles. The NWS survey team found the damage to residential and business structures indicative of that produced by winds of 85 to 100 mph. With no circulations evident, the event has been determined to be a straight-line wind event. Multiple power lines were broken and RVs were toppled over. The time of the event was estimated from radar. The cost of damage is a very rough estimate.

A strong upper low was over Arizona with the associated upper trough beginning to move over West Texas and southeast New Mexico providing lift. Plentiful moisture was across the area as well as good wind shear. Instability was kept lower across most of the area for much of the day due to persistent cloud cover, but the cloud cover cleared out across western portions of the area later in the day which increased instability. Low cloud bases were present and there was rotational spin in the atmosphere. These conditions resulted in severe thunderstorms with large hail, strong winds, and tornadoes.

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A thunderstorm moved across Reeves County and produced damage near Pecos. Photo credit is unknown.

WARD COUNTY --- 3.0 SSE GRANDFALLS [31.29, -102.85]

03/28/19 19:00 CST	0		Hail (1.75 in)
03/28/19 19:05 CST	0		Source: Trained Spotter

An upper level trough with an associated dryline moved across New Mexico. The dryline sharpened up and warmer temperatures provided lift for storms across the Lower Trans-Pecos. Plenty of moisture was in place, and a few storms broke the cap, producing large hail and strong winds.

(TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY

03/31/19 11:50 MST	0		High Wind (MAX 39 kt)
03/31/19 15:30 MST	0		

A strong cold front blew into West Texas resulting in strong northeast winds through the Guadalupe Pass.