

## Storm Data and Unusual Weather Phenomena - September 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>NEW MEXICO, Southeast</b>				
<b>EDDY COUNTY --- 1.6 WNW HOPE [32.81, -104.75]</b>				
	09/15/16 15:00 MST		0	Funnel Cloud
	09/15/16 15:05 MST		0	Source: Trained Spotter
A storm moved across Eddy County and produced a funnel cloud one mile west of Hope . The funnel cloud was not reaching the ground but it became closer as they reported it on the phone.				
<b>EDDY COUNTY --- 1.0 W HOPE [32.80, -104.75], 5.0 W HOPE [32.80, -104.82]</b>				
	09/15/16 15:06 MST		0	Tornado (EF0, L: 4.00 mi , W: 300 yd)
	09/15/16 15:26 MST		0	Source: Emergency Manager
A thunderstorm moved across Eddy County and produced a tornado near Hope . No damage survey was done but it is estimated that the tornado began around one mile west of Hope and ended around five miles west of Hope. This tornado was spotted by several Skywarn spotters in Eddy County. No damage was reported with this tornado and the path length and width were estimated.				
<b>EDDY COUNTY --- 2.0 S ARTESIA [32.80, -104.40]</b>				
	09/15/16 16:30 MST		3K	Hail (2.75 in)
	09/15/16 16:40 MST		0	Source: Public
A storm moved across Eddy County and produced baseball sized hail two miles south of Artesia . The hail punctured holes in the walls of a home. The cost of damage is a very rough estimate.				
<b>EDDY COUNTY --- ATOKA [32.77, -104.40]</b>				
	09/15/16 16:40 MST		4K	Hail (1.50 in)
	09/15/16 16:55 MST		0	Source: Public
A storm moved across Eddy County and produced ping pong ball sized hail in Atoka . The hail broke skylights and side mirrors on vehicles and also did damage to an RV. The cost of damage is a very rough estimate.				
<b>EDDY COUNTY --- 5.0 S ARTESIA [32.76, -104.40]</b>				
	09/15/16 16:49 MST		0	Hail (1.00 in)
	09/15/16 16:55 MST		0	Source: Public
<b>EDDY COUNTY --- 4.0 S ARTESIA [32.77, -104.40]</b>				
	09/15/16 16:50 MST		0	Hail (1.75 in)
	09/15/16 16:55 MST		0	Source: Public
<b>EDDY COUNTY --- 2.4 SW DAYTON [32.73, -104.38]</b>				
	09/15/16 17:00 MST		0	Hail (1.75 in)
	09/15/16 17:05 MST		0	Source: Public
<b>EDDY COUNTY --- LAKEWOOD [32.63, -104.37]</b>				
	09/15/16 20:35 MST		0	Hail (1.75 in)
	09/15/16 20:40 MST		0	Source: Trained Spotter
<b>EDDY COUNTY --- 3.8 SW LAKEWOOD [32.59, -104.42]</b>				
	09/15/16 21:18 MST		3K	Hail (4.00 in)
	09/15/16 21:25 MST		0	Source: Public
A thunderstorm moved across Eddy County and produced three to four inch hail in Seven Rivers . The hail beat a vehicle and broke the windshield. The cost of damage is a very rough estimate.				
<b>LEA COUNTY --- 0.4 NW EUNICE [32.43, -103.15]</b>				
	09/16/16 02:50 MST		0	Hail (1.00 in)
	09/16/16 02:55 MST		0	Source: Public

An upper level trough was over the western half of the country with an upper ridge over the eastern half of the country which resulted in west to southwest winds over the region. An upper level disturbance moved over southeast New Mexico where there was a good

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supply of moisture and good surface heating. A boundary was lingering across the area, and an area of strong winds aloft was approaching which enhanced lift. These conditions, along with good wind shear values, resulted in severe thunderstorms developing. The storms produced large hail and a tornado in southeast New Mexico.

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Property &  
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*Ping pong ball sized hail fell in Atoka. The hail did some damage to an RV as well as broke skylights and side mirrors on vehicles. Photo courtesy of Stayce Smith.*

**EDDY COUNTY --- 4.0 WNW ARTESIA [32.85, -104.46]**

09/17/16 15:00 MST			0	Hail (2.75 in)
09/17/16 15:10 MST		2	0	Source: Trained Spotter

A thunderstorm moved across Eddy County and produced baseball sized hail from the Artesia Airport to two miles south of Artesia . There were two head injuries reported due to the hail between 4 and 4:30 pm MDT.

**EDDY COUNTY --- 1.3 ESE ARTESIA ARPT [32.84, -104.45]**

09/17/16 15:15 MST			0	Hail (1.75 in)
09/17/16 15:20 MST			0	Source: Public

**EDDY COUNTY --- 3.0 N ARTESIA [32.87, -104.40]**

09/17/16 15:15 MST			0	Hail (1.75 in)
09/17/16 15:20 MST			0	Source: Trained Spotter

**EDDY COUNTY --- 0.8 NW ARTESIA [32.84, -104.41]**

09/17/16 15:17 MST			1M	Hail (2.75 in)
09/17/16 15:22 MST			0	Source: Public

A thunderstorm moved across Eddy County and produced baseball sized hail in Artesia . The Artesia Airport Manager reported extensive damage to vehicles and hangars. There was also widespread damage to cars and homes in Artesia . The cost of damage is a very rough estimate.

**EDDY COUNTY --- 1.8 ESE ARTESIA ARPT [32.84, -104.44]**

09/17/16 15:17 MST			0	Hail (1.75 in)
09/17/16 15:22 MST			0	Source: Trained Spotter

**EDDY COUNTY --- 2.0 N ARTESIA [32.86, -104.40]**

09/17/16 15:17 MST			0	Hail (2.50 in)
09/17/16 15:22 MST			0	Source: Trained Spotter

**EDDY COUNTY --- 1.5 WSW ILLINOIS CAMP [32.84, -104.42]**

09/17/16 15:21 MST			1K	Hail (2.75 in)
09/17/16 15:26 MST			0	Source: Public

A thunderstorm moved across Eddy County and produced baseball sized hail about one mile west of Artesia . There was a broken windshield on a car and a broken window in a house. The cost of damage is a very rough estimate.

**EDDY COUNTY --- 1.3 W ARTESIA [32.83, -104.42]**

09/17/16 15:30 MST			1.50K	Hail (2.50 in)
09/17/16 15:35 MST			0	Source: Trained Spotter

A thunderstorm moved across Eddy County and produced tennis ball sized hail in Artesia . The hail dented a car and damaged some trees. The cost of damage is a very rough estimate.

**EDDY COUNTY --- 17.0 NNE CARLSBAD [32.65, -104.12], 11.7 NE AVALON [32.64, -104.11]**

09/17/16 15:50 MST			0	Tornado (EF0, L: 0.92 mi , W: 200 yd)
09/17/16 15:53 MST			0	Source: Trained Spotter

A supercell thunderstorm moved southeast across Eddy County and produced a weak tornado approximately 17 miles north northeast of Carlsbad, NM. Eyewitness reports from a storm spotter in the area indicate the tornado began around 5:50 pm CDT and lasted only a few minutes. This tornado, rated an EF0, touched down in open fields and no damage was reported.

**LEA COUNTY --- 0.5 SW TEAGUE [32.26, -103.19]**

09/17/16 18:45 MST			0.50K	Hail (1.75 in)
09/17/16 18:50 MST			0	Source: Public



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A thunderstorm moved across Lea County and produced golf ball sized hail ten miles north of Jal . A motorist reported that hail broke the windshield on a car. The cost of damage is a very rough estimate.

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**LEA COUNTY --- JAL [32.12, -103.18]**

09/17/16 18:45 MST		3.50M	Hail (2.50 in)
09/17/16 18:50 MST		0	Source: Public

A thunderstorm moved across Lea County and produced tennis ball sized hail in Jal . The hail caused widespread damage to homes and vehicles. The cost of damage is a rough estimate.

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**LEA COUNTY --- JAL [32.12, -103.18]**

09/17/16 18:45 MST		4K	Hail (1.75 in)
09/17/16 18:50 MST		0	Source: Trained Spotter

A thunderstorm moved across Lea County and produced golf ball sized hail in Jal . The hail broke windows in buildings in Jal. The cost of damage is a very rough estimate.

An upper level disturbance moved over the area, and a lingering frontal boundary was across parts of southeast New Mexico and the Permian Basin. Upper level lift associated with an area of intense winds aloft moved over the region. There was good wind shear, moisture, and instability across West Texas and southeast New Mexico. Two other boundaries were moving toward the area and possibly collided with the initial boundary. These conditions combined to create good lift in the atmosphere which resulted in widespread thunderstorms with large hail across southeast New Mexico and the Permian Basin. The wind shear created spin in the atmosphere which allowed for tornadoes to develop in the Permian Basin and southeast New Mexico.



*A thunderstorm moved across Lea County and produced widespread hail damage to vehicles and homes in Jal. Photo is courtesy of Corey Cruse.*

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**TEXAS, West**

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**ANDREWS COUNTY --- ANDREWS [32.32, -102.55]**

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	09/07/16 18:15 CST		0	Thunderstorm Wind (MG 54 kt)
	09/07/16 18:15 CST		0	Source: AWOS

A thunderstorm moved across Andrews County and produced a 62 mph wind gust at the City of Andrews AWOS site.

There was an upper low centered over southeastern Arizona. Tropical Storm Newton was providing a plentiful supply of moisture across West Texas. These conditions resulted in thunderstorms with strong winds that developed across the Permian Basin.

### (TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY

09/10/16 06:51 MST	0	High Wind (MAX 43 kt)
09/10/16 10:03 MST	0	

Northeast winds behind an early season cold front resulted in strong, gap winds through Guadalupe Pass.

### TERRELL COUNTY --- DRYDEN [30.05, -102.12]

09/12/16 17:58 CST	0	Thunderstorm Wind (MG 51 kt)
09/12/16 17:58 CST	0	Source: AWOS

A thunderstorm moved across Terrell County and produced a 59 mph wind gust at the Dryden AWOS site.

There was an upper ridge which extended from Texas eastward into the Atlantic and an upper trough along the west coast. An upper level disturbance moved over West Texas which created lift. There was good surface heating and moisture across the area. These conditions resulted in thunderstorms with strong winds across West Texas.

### CULBERSON COUNTY --- 2.9 E PLATEAU [31.06, -104.50]

09/15/16 18:00 CST	0	Hail (1.00 in)
09/15/16 18:30 CST	0	Source: Public

An upper level trough was over the western half of the country with an upper ridge over the eastern half of the country which resulted in west to southwest winds over the region. An upper level disturbance moved over southeast New Mexico and West Texas where there was a good supply of moisture and good surface heating. A boundary was lingering across the area, and an area of strong winds aloft was approaching which enhanced lift. These conditions, along with good wind shear values, resulted in severe thunderstorms developing. The storms produced large hail in West Texas.

### SCURRY COUNTY --- 0.4 NE SNYDER WINSTON ARPT [32.70, -100.94]

09/16/16 15:55 CST	0	Thunderstorm Wind (MG 53 kt)
09/16/16 15:55 CST	0	Source: AWOS

A thunderstorm moved across Scurry County and produced a 61 mph wind gust at the Snyder AWOS site.

### SCURRY COUNTY --- 1.5 NW WINSTON [32.72, -100.93]

09/16/16 15:55 CST	0	Hail (1.00 in)
09/16/16 16:00 CST	0	Source: Public

### SCURRY COUNTY --- 0.7 W SNYDER [32.72, -100.91]

09/16/16 16:00 CST	0	Hail (1.75 in)
09/16/16 16:05 CST	0	Source: Trained Spotter

A thunderstorm moved across Scurry County and produced half dollar to ping pong ball size hail in Snyder.

### SCURRY COUNTY --- 0.9 NNE WINSTON [32.71, -100.92]

09/16/16 16:00 CST	70K	Thunderstorm Wind (EG 70 kt)
09/16/16 16:02 CST	0	Source: Public

A thunderstorm moved across Scurry County and produced wind damage in Snyder. A storm survey was conducted and it was determined that the winds were 75 to 85 mph. There was heavy roof and carport damage in Snyder. There was a roof blown off of a business, and a store was filled with insulation and rain water. The cost of damage is a very rough estimate.

### SCURRY COUNTY --- 1.1 NW WINSTON [32.71, -100.93]

09/16/16 16:00 CST	20K	Thunderstorm Wind (EG 65 kt)
09/16/16 16:01 CST	0	Source: Emergency Manager

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A thunderstorm moved across Scurry County and produced wind damage in Snyder . A damage survey was conducted and it was determined that the wind speed ranged from 60 to 85 mph. There was damage to power lines, telephone poles, and trees. The cost of damage is a very rough estimate.				
<b>SCURRY COUNTY --- 2.3 SSW WINSTON [32.67, -100.93]</b>				
	09/16/16 16:01 CST		0	Thunderstorm Wind (MG 70 kt)
	09/16/16 16:01 CST		0	Source: Mesonet
A thunderstorm moved across Scurry County and produced a 81 mph wind gust at the Snyder Mesonet site.				
<b>SCURRY COUNTY --- 2.4 NNE CEMETARY [32.71, -100.86]</b>				
	09/16/16 16:05 CST		0	Thunderstorm Wind (MG 60 kt)
	09/16/16 16:05 CST		0	Source: Mesonet
A thunderstorm moved across Scurry County and produced a 69 mph wind gust at the Snyder Mesonet site.				
<b>WARD COUNTY --- 1.1 NE GRANDFALLS [31.34, -102.86]</b>				
	09/16/16 16:40 CST		0	Hail (1.00 in)
	09/16/16 16:45 CST		0	Source: Public
<b>ECTOR COUNTY --- 1.4 SSE GREENFIELD ACRES [31.85, -102.39]</b>				
	09/16/16 17:52 CST		0	Hail (1.00 in)
	09/16/16 17:57 CST		0	Source: Amateur Radio
<b>ECTOR COUNTY --- 3.6 W ODESSA ECTOR CO ARPT [31.93, -102.44], 3.6 WNW ODESSA ECTOR CO ARPT [31.93, -102.44]</b>				
	09/16/16 17:53 CST		0	Tornado (EF0, L: 0.35 mi , W: 200 yd)
	09/16/16 17:55 CST		0	Source: Broadcast Media
A thunderstorm moved across Ector County and produced a brief tornado near Odessa in an open field . A local TV meteorologist sent a video and a photo of the tornado. No damage was reported with this tornado so there was not a damage survey and it was rated as an EF-O. The path length and width were estimated.				
<b>MITCHELL COUNTY --- 0.4 ENE COLORADO CITY [32.40, -100.84], 0.6 ENE COLORADO CITY [32.40, -100.84], 6.3 SSE COLORADO CITY [32.31, -100.82], 6.4 SSE COLORADO CITY [32.31, -100.82]</b>				
	09/16/16 18:08 CST		0.50K	Flash Flood (due to Heavy Rain)
	09/16/16 20:00 CST		0	Source: Law Enforcement
Heavy rain fell across Mitchell County and produced flash flooding in and south of Colorado City. Cones were put out for a section of highway South 208 at the Lake Champion turnoff. Rapid water is flowing over the road. The cost of damage is a very rough estimate.				
<b>DAWSON COUNTY --- LAMESA [32.73, -101.95]</b>				
	09/16/16 20:10 CST		0	Hail (1.75 in)
	09/16/16 20:15 CST		0	Source: Broadcast Media
<p>There was an upper level trough over much of the northern and western half of the nation which resulted in west to southwest winds aloft over West Texas. An upper level disturbance moved over the region where there was abundant moisture and instability in place. There was a cold front that moved southward toward West Texas from the Texas panhandle. A surface boundary was also in place across the Permian Basin. An area of intense winds aloft moved over the area and aided in lift. These conditions allowed for thunderstorms to develop across West Texas, and there was good wind shear present which contributed to these storms becoming severe with large hail, damaging winds, and a brief tornado. The abundant moisture combined with recent rainfall also resulted in flash flooding across the Western Low Rolling Plains.</p>				



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<i>Hail up to the size of golf balls fell in Lamesa. Photo courtesy of Tessy Ruvalcaba.</i>				
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<b>MIDLAND COUNTY --- 2.8 SW WARFIELD [31.90, -102.27]</b>	09/17/16 16:59 CST	0		Thunderstorm Wind (EG 52 kt)
	09/17/16 16:59 CST	0		Source: NWS Employee
A thunderstorm moved across Midland County and produced a 60 mph wind gust about thirteen miles southwest of Midland.				
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<b>MIDLAND COUNTY --- 2.8 WSW WARFIELD [31.90, -102.27]</b>	09/17/16 16:59 CST	0		Hail (1.00 in)
	09/17/16 17:04 CST	0		Source: NWS Employee
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<b>MIDLAND COUNTY --- 3.0 SW WARFIELD [31.90, -102.27]</b>	09/17/16 17:00 CST	0		Thunderstorm Wind (EG 65 kt)
	09/17/16 17:00 CST	0		Source: NWS Employee
A thunderstorm moved across Midland County and produced a 70 to 80 mph wind gust about 13 miles southwest of the City of Midland.				
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<b>MIDLAND COUNTY --- 3.0 SW WARFIELD [31.90, -102.27]</b>	09/17/16 17:00 CST	0		Hail (1.00 in)
	09/17/16 17:05 CST	0		Source: NWS Employee
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<b>MIDLAND COUNTY --- 5.0 W MIDLAND [32.00, -102.17]</b>	09/17/16 17:00 CST	0		Hail (1.00 in)
	09/17/16 17:05 CST	0		Source: NWS Employee
A thunderstorm moved across Midland County and produced quarter sized hail and 60 mph wind gusts about five miles west of the City of Midland.				
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<b>ECTOR COUNTY --- ODESSA [31.85, -102.37]</b>	09/17/16 17:05 CST	0.10M		Thunderstorm Wind (EG 61 kt)
	09/17/16 17:06 CST	0		Source: Broadcast Media
A thunderstorm moved across Ector County and produced strong winds around 70 mph or higher in Odessa. An 18 wheel big rig flipped over on its side on eastbound Interstate 20 and there was a blackout affecting 6,000 homes and businesses. The cost of damage is a very rough estimate.				
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<b>GLASSCOCK COUNTY --- LEES [32.08, -101.48]</b>	09/17/16 17:23 CST	0		Hail (1.25 in)
	09/17/16 17:33 CST	0		Source: Public
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<b>HOWARD COUNTY --- 0.5 ESE SOUTH HAVEN [32.18, -101.47]</b>	09/17/16 17:42 CST	0		Hail (1.75 in)
	09/17/16 17:47 CST	0		Source: Trained Spotter
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<b>HOWARD COUNTY --- BIG SPRING [32.25, -101.47]</b>	09/17/16 17:55 CST	0		Hail (1.00 in)
	09/17/16 18:00 CST	0		Source: Social Media
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<b>ECTOR COUNTY --- 12.5 NNW NOTREES [32.09, -102.81], 7.3 N NOTREES [32.03, -102.75]</b>	09/17/16 18:13 CST	30K		Tornado (EF1, L: 5.87 mi , W: 400 yd)
	09/17/16 18:35 CST	0		Source: Trained Spotter

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A supercell thunderstorm developed over Andrews County during the evening hours of September 17th. This storm encountered a stationary boundary and began moving southeast. The storm began to form a hook echo at 6:30 pm CDT as it moved toward Highway 115 in southwest Andrews County. Eyewitness reports from storm chasers and spotters in the area indicate that the initial tornado began at 7:13 pm CDT near the intersection of Andrews, Winkler and Ector Counties. Videos taken of the tornado show it touching down and lifting several times before eventually staying on the ground for several minutes over far northwest portions of Ector County. The tornado moved south southeastward across open fields of rural Ector County just west of FM 181. The damage assessment team looked at several different indicators to determine tornado intensity. The tornado snapped several electrical power poles and overturned a tank battery along its path. These damage indicators suggest EF1 intensity with wind speeds estimated at 90 to 105 mph. Near the end of the life cycle of the EF1 tornado, a weak anticyclonic circulation developed on the forward flank of the supercell around 7:25 pm CDT. This circulation moved southwest to the west of FM 181 and dissipated around 7:35 pm CDT. Storm chasers and spotters identified this funnel looking north from Goldsmith around 7:30 pm CDT. There was no evidence of damage or reports of the funnel cloud touching down. The tornado path width was estimated and the cost of damage is a very rough estimate.

**ECTOR COUNTY --- 2.0 E GOLDSMITH [31.98, -102.59]**

09/17/16 18:50 CST			0.10M	Hail (2.75 in)
09/17/16 18:55 CST			0	Source: Public

A thunderstorm moved across Ector County and produced baseball sized hail two miles east of Goldsmith. The hail severely damaged numerous homes and cars. The cost of damage is a very rough estimate.

**ECTOR COUNTY --- 1.4 NNW WEST ODESSA [31.85, -102.51]**

09/17/16 19:25 CST			0	Hail (1.00 in)
09/17/16 19:30 CST			0	Source: Trained Spotter

**ECTOR COUNTY --- 2.0 NW ODESSA [31.87, -102.39]**

09/17/16 19:30 CST			0	Hail (1.50 in)
09/17/16 19:35 CST			0	Source: Public

**ECTOR COUNTY --- 1.7 NE ODESSA [31.86, -102.35]**

09/17/16 19:34 CST			0	Hail (1.00 in)
09/17/16 19:40 CST			0	Source: Public

**ECTOR COUNTY --- 2.1 SE ODESSA [31.83, -102.34]**

09/17/16 19:39 CST			0	Hail (1.00 in)
09/17/16 19:45 CST			0	Source: Trained Spotter

**ECTOR COUNTY --- 1.7 ESE ODESSA ECTOR CO ARPT [31.91, -102.35], 2.0 E ODESSA [31.85, -102.34], 1.2 ESE DOURO [31.76, -102.50], 4.0 NNW WEST ODESSA [31.88, -102.53]**

09/17/16 20:00 CST			5K	Flash Flood (due to Heavy Rain)
09/17/16 20:30 CST			0	Source: Broadcast Media

Heavy rain fell across Ector County and produced flash flooding in Odessa. There were three high water rescues in Odessa between 9 and 9:30 pm CDT. The cost of damage is a very rough estimate.

**ECTOR COUNTY --- 1.8 NE GREENFIELD ACRES [31.89, -102.37], 1.8 ENE GREENFIELD ACRES [31.88, -102.37], 1.9 ENE GREENFIELD ACRES [31.88, -102.37], 1.9 NE GREENFIELD ACRES [31.89, -102.37]**

09/17/16 21:30 CST			0.50K	Flash Flood (due to Heavy Rain)
09/17/16 22:10 CST			0	Source: Broadcast Media

Heavy rain fell across Ector County and produced flash flooding in Odessa. The media reported two feet of water at the intersection of 42nd and Dixie Boulevard in Odessa. The cost of damage is a very rough estimate.

**An upper level disturbance moved over the area, and a lingering frontal boundary was across the Permian Basin. Upper level lift associated with an area of intense winds aloft moved over the region. There was good wind shear, moisture, and instability across West Texas and southeast New Mexico. Two other boundaries were moving toward the area and possibly collided with the initial boundary. These conditions combined to create good lift in the atmosphere which resulted in widespread thunderstorms with large hail across southeast New Mexico and the Permian Basin. The wind shear created spin in the atmosphere which allowed for tornadoes to develop in the Permian Basin and southeast New Mexico. Deep moisture across the area resulted in flash flooding that developed in the Permian Basin.**

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*A thunderstorm produced a tornado near Goldsmith. The tornado snapped several electrical power poles and overturned a tank battery along its path. Photo is courtesy of CBS 7.*

MITCHELL COUNTY --- 2.3 S BUFORD [32.44, -100.86], 2.0 NW COLORADO CITY ARPT [32.44, -100.85], 5.5 SSE COLORADO CITY [32.33, -100.81], 5.3 SSE COLORADO CITY [32.33, -100.83]

09/17/16 18:30 CST	0	Flash Flood (due to Heavy Rain)
09/17/16 20:30 CST	0	Source: Law Enforcement

Heavy rain fell across Mitchell County and produced flash flooding along Highway 208 and Highway 139.

Moisture was moving over the region ahead of an upper trough that transitioned into a closed low and moved over the Northern Plains. An area of increased upper level winds as well as an upper level disturbance was over the area as a result of this upper pattern, and a surface trough was across West Texas. This good lift and moisture combined with good instability to produce thunderstorms with heavy rain across the area. The heavy rain lead to flash flooding across the Western Low Rolling Plains.

(TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY

09/26/16 00:51 MST	0	High Wind (MAX 57 kt)
09/26/16 13:51 MST	0	

A strong cold front resulted in strong, northeast, gap winds through Guadalupe Pass.