

Storm Data and Unusual Weather Phenomena - July 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
NEW MEXICO, Southeast				
LEA COUNTY --- 0.7 N TATUM [33.26, -103.32]				
	07/17/09 19:15 MST		0	Thunderstorm Wind (MG 54 kt)
	07/17/09 19:20 MST		0	Source: Mesonet
LEA COUNTY --- 2.7 NW HOBBS [32.73, -103.16]				
	07/17/09 19:44 MST		0	Thunderstorm Wind (EG 52 kt)
	07/17/09 19:49 MST		0	Source: Public
There was no significant damage reported with this estimated gust.				
LEA COUNTY --- 1.8 SW TATUM [33.23, -103.34]				
	07/18/09 20:20 MST		0	Thunderstorm Wind (MG 51 kt)
	07/18/09 20:25 MST		0	Source: Mesonet
A complex of severe storms first developed over eastern NM on this day, and then moved south into southeast NM. This complex of storms formed on the eastern periphery of an upper level ridge west of the region, with support from a mid level shortwave trough. A similar scenario was also observed the following day.				
EDDY COUNTY --- 0.9 NW WHITES CITY [32.18, -104.38]				
	07/29/09 17:00 MST		0	Hail (0.88 in)
	07/29/09 17:05 MST		0	Source: Public
A shortwave trough embedded within northwesterly flow aloft provided sufficient lift and instability for scattered thunderstorms to develop.				
EDDY COUNTY --- LOCO HILLS [32.82, -103.98]				
	07/30/09 19:45 MST		0	Thunderstorm Wind (EG 61 kt)
	07/30/09 20:50 MST		0	Source: Post Office
The post office in Loco Hills, NM estimated winds to be near 70 mph or greater, although no damage was officially reported.				
EDDY COUNTY --- ARTESIA [32.83, -104.40]				
	07/30/09 19:48 MST		0	Thunderstorm Wind (EG 52 kt)
	07/30/09 19:49 MST		0	Source: Trained Spotter
A trained spotter reported numerous tree limbs, up to 4 inches in diameter, were blow down in Artesia, NM.				
EDDY COUNTY --- LOCO HILLS [32.82, -103.98]				
	07/30/09 20:02 MST		2K	Hail (1.75 in)
	07/30/09 20:07 MST		0	Source: Trained Spotter
The spotter's car windshield was broken and the hail also dented the vehicle.				
EDDY COUNTY --- CARLSBAD [32.42, -104.23]				
	07/30/09 21:30 MST		8K	Thunderstorm Wind (EG 61 kt)
	07/30/09 21:35 MST		0	Source: Law Enforcement
Multiple power poles were knocked down in Carlsbad, NM.				
EDDY COUNTY --- 0.9 SE BLACK RIVER [32.19, -104.24]				
	07/30/09 21:38 MST		25K	Thunderstorm Wind (EG 87 kt)
	07/30/09 21:39 MST		0	Source: Law Enforcement
A roof was blown off of a home approximately 15 miles south of Carlsbad, NM.				
EDDY COUNTY --- 1.5 SSW CARLSBAD [32.40, -104.24], 1.2 NE HAPPY VLY [32.43, -104.26], 0.8 S LA HUERTA [32.44, -104.22], 0.7 SE CARLSBAD [32.41, -104.22]				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/30/09 22:05 MST		0	Flash Flood (due to Heavy Rain)
	07/30/09 23:31 MST		0	Source: Law Enforcement

LEA COUNTY --- 1.1 W JAL [32.12, -103.20], 0.7 W JAL [32.12, -103.19], 1.3 SSW JAL [32.10, -103.19], 1.7 SW JAL [32.10, -103.20]

	07/31/09 00:24 MST		0	Flash Flood (due to Heavy Rain)
	07/31/09 02:24 MST		0	Source: Law Enforcement

One intersection in Jal, NM had 2 to 3 feet of flowing water over the roadway.

A cold front located near the Pecos River and surface based instability along the front resulted in thunderstorm development across southwest Texas. In addition, abnormally high amounts of atmospheric moisture lead to heavy rainfall for some locations.

TEXAS, West

SCURRY COUNTY --- 2.4 NNE CEMETARY [32.71, -100.86]

	07/01/09 15:45 CST		0	Thunderstorm Wind (MG 54 kt)
	07/01/09 15:47 CST		0	Source: Mesonet

A couple of strong storms developed during the late afternoon hours, as a weak upper level disturbance entered the region from the north.

MIDLAND COUNTY --- MIDLAND [32.00, -102.08]

	07/04/09 16:50 CST		0	Hail (1.00 in)
	07/04/09 16:55 CST		0	Source: Public

MIDLAND COUNTY --- 1.4 NNW MIDLAND [32.02, -102.09], 1.4 NNW MIDLAND [32.02, -102.09], 1.3 NNW MIDLAND [32.02, -102.09], 1.3 NNW MIDLAND [32.02, -102.09]

	07/04/09 18:00 CST		0	Flood (due to Heavy Rain)
	07/04/09 19:00 CST		0	Source: NWS Employee

Eight inches of flowing water was observed near the intersection of Scarborough and A Street.

Slow moving scattered showers and thunderstorms combined with high atmospheric moisture content, resulting in urbanized flash flooding. In addition, there was enough instability and deep layer shear present for one storm to produce severe hail.

CULBERSON COUNTY --- 2.1 NNW (GDP)GUADALUPE PASS [31.83, -104.81]

	07/06/09 18:39 CST		0	Thunderstorm Wind (MG 58 kt)
	07/06/09 18:44 CST		0	Source: ASOS

A rather moist and unstable atmosphere combined with a weak mid level disturbance, moving south over NM within the northerly flow aloft, to produce isolated severe storms.

GAINES COUNTY --- 1.4 WNW SEAGRAVES [32.94, -102.57]

	07/17/09 20:40 CST		0	Thunderstorm Wind (MG 57 kt)
	07/17/09 20:45 CST		0	Source: Mesonet

GAINES COUNTY --- 1.5 NNE SEMINOLE [32.74, -102.64]

	07/17/09 20:55 CST		25K	Thunderstorm Wind (MG 56 kt)
	07/17/09 21:00 CST		0	Source: Mesonet

In addition to the measured wind gust at the mesonet, a trampoline was blown through a residence's roof. The time of occurrence was not available, but it can be assumed that it happened near the same time of the wind observation.

GAINES COUNTY --- SEMINOLE [32.72, -102.65]

	07/17/09 21:50 CST		0	Thunderstorm Wind (MG 56 kt)
	07/17/09 21:55 CST		0	Source: Mesonet

MIDLAND COUNTY --- 5.0 WSW MIDLAND [31.97, -102.16]

	07/17/09 22:54 CST		1K	Thunderstorm Wind (EG 56 kt)
	07/17/09 23:00 CST		0	Source: Public

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Several 16 foot by 3 inch diameter tree branches were snapped off pecan trees.				
MIDLAND COUNTY --- 6.0 WNW MIDLAND [32.02, -102.18], 3.6 NW MIDLAND [32.03, -102.13], 2.1 WSW MIDLAND [31.99, -102.11], 4.4 NNE (MAF) MIDLAND INTL [31.99, -102.16]				
	07/17/09 23:38 CST		20K	Flash Flood (due to Heavy Rain)
	07/18/09 00:30 CST		0	Source: Trained Spotter

There were multiple reports of flash flooding, mainly across western Midland County. Flash flooding was first reported on Loop 250 and the adjacent access roads between Tremont and Holiday Hill Roads at 1138 PM CST, where there was 6 inches of flowing water present. The next location of flooding was reported at the intersection of Andrews Highway and Midland Drive at 1141 PM CST. Cars were also stranded at the intersection of Andrews Highway and Idlewild Road at 1146 PM CST. Finally, substantial flooding was reported by TEXDOT at 1152 PM CST and likely continued for another 30 minutes before the storm weakened.

ECTOR COUNTY --- 1.7 SW ODESSA [31.83, -102.39], 2.2 SE ODESSA ECTOR CO ARPT [31.90, -102.35], 3.1 SE ODESSA ECTOR CO ARPT [31.89, -102.34], 1.6 E ODESSA [31.85, -102.34]				
	07/17/09 23:48 CST		20K	Flash Flood (due to Heavy Rain)
	07/18/09 00:48 CST		0	Source: Law Enforcement

Law enforcement reported multiple high water rescues do to flash flooding near the intersections of 2nd Street and West County Road, and Wendover and Penbooke Roads at 1148 CST.

GLASSCOCK COUNTY --- ST LAWRENCE [31.67, -101.50]				
	07/18/09 00:25 CST		0	Thunderstorm Wind (MG 56 kt)
	07/18/09 00:30 CST		0	Source: ASOS

A complex of severe storms first developed over eastern NM during the late evening hours on this day, and then moved south into the Permian Basin of West Texas. This complex of storms formed on the eastern periphery of an upper level ridge west of the region, with support from a mid level shortwave trough. A similar scenario was also observed the following day.

MIDLAND COUNTY --- 6.4 WNW MIDLAND [32.04, -102.18], 3.3 ENE (MAF) MIDLAND INTL [31.95, -102.15], 4.7 E MIDLAND [32.00, -102.00], 4.5 N MIDLAND [32.07, -102.07]				
	07/23/09 05:16 CST		25K	Flash Flood (due to Heavy Rain)
	07/23/09 09:01 CST		0	Source: Broadcast Media

There were numerous reports of flooding from multiple sources, but most were confirmed by the media. At 515 AM CST, the Midland Police Department reported a few stalled vehicles across the city limits. Three minutes later, a high water rescue was reported at the intersection of Lee and Maple. At 635 AM CST, the media reported flash flooding along the Scharbauer Draw in residential areas. The police department then reported two more cars were submerged in the city of Midland, at 717 AM CST. One foot of flowing water was present near the intersection of Golf Course and Garfield. Finally, at 1001 AM CST, the media still continued to report areas of high water across Midland.

ECTOR COUNTY --- 2.2 SW ODESSA [31.83, -102.40], 2.5 ESE ODESSA [31.83, -102.33], 2.5 SE ODESSA ECTOR CO ARPT [31.89, -102.35], 1.8 WNW GREENFIELD ACRES [31.88, -102.43]				
	07/23/09 07:10 CST		0	Flash Flood (due to Heavy Rain)
	07/23/09 09:01 CST		0	Source: Law Enforcement

The first flash flood report received for this event was from the Odessa Police Department. At 710 AM CST, several roads were covered in water throughout the city limits. The media reported the water depth was estimated to be 15 to 20 inches deep near the intersection of 36th and Dixie. Finally, at 901 AM CST, another media crew reported many areas across Odessa were flooded with high water.

A slow moving upper level disturbance, upslope flow and an extremely moist atmosphere resulted in moderate to heavy rainfall over the cities of Midland and Odessa during the early morning hours.

DAWSON COUNTY --- 15.0 NNE LAMESA [32.93, -101.85]				
	07/27/09 17:26 CST		0	Hail (1.75 in)
	07/27/09 17:30 CST		0	Source: Law Enforcement

CULBERSON COUNTY --- 4.0 NE PINE SPGS [31.92, -104.75]				
	07/28/09 17:53 CST		0	Hail (1.25 in)
	07/28/09 17:57 CST		0	Source: Law Enforcement

WINKLER COUNTY --- 22.0 NE KERMIT [32.08, -102.81]				
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	07/29/09 00:14 CST		7K	Thunderstorm Wind (EG 65 kt)
	07/29/09 00:19 CST		0	Source: Public
Three power poles were knocked down by severe wind gusts. In addition, 6-8 inch diameter tree limbs were snapped.				
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SCURRY COUNTY --- 2.4 NNE CEMETARY [32.71, -100.86]				
	07/29/09 00:25 CST		0	Thunderstorm Wind (MG 53 kt)
	07/29/09 00:28 CST		0	Source: Mesonet
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ECTOR COUNTY --- ODESSA [31.85, -102.37]				
	07/29/09 00:37 CST		0	Thunderstorm Wind (MG 53 kt)
	07/29/09 00:42 CST		0	Source: ASOS
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ECTOR COUNTY --- ODESSA [31.85, -102.37]				
	07/29/09 00:43 CST		0	Thunderstorm Wind (MG 58 kt)
	07/29/09 00:47 CST		0	Source: ASOS
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ECTOR COUNTY --- ODESSA [31.85, -102.37]				
	07/29/09 00:57 CST		0	Thunderstorm Wind (MG 61 kt)
	07/29/09 01:00 CST		0	Source: ASOS
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MIDLAND COUNTY --- 0.9 NE (MAF) MIDLAND INTL [31.94, -102.19]				
	07/29/09 00:57 CST		0	Thunderstorm Wind (MG 63 kt)
	07/29/09 00:59 CST		0	Source: ASOS
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ECTOR COUNTY --- ODESSA [31.85, -102.37]				
	07/29/09 01:00 CST		0	Thunderstorm Wind (EG 56 kt)
	07/29/09 01:05 CST		0	Source: Public
The top of a gazebo was blown off at a local residence.				
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ECTOR COUNTY --- 2.8 SE ODESSA ECTOR CO ARPT [31.90, -102.34], 2.1 ENE ODESSA [31.86, -102.34], 1.4 WSW ODESSA [31.84, -102.39], 1.6 N GREENFIELD ACRES [31.89, -102.40]				
	07/29/09 01:35 CST		0	Flash Flood (due to Heavy Rain)
	07/29/09 02:35 CST		0	Source: Fire Department/Rescue
Some roads were impassable due to high water. The duration of this event was estimated due to limited reports.				
Several upper level disturbances moving over the northern and central portions of the forecast area produced scattered thunderstorms along a frontal boundary draped across the region.				
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BORDEN COUNTY --- GAIL [32.77, -101.43]				
	07/29/09 23:50 CST		0	Thunderstorm Wind (MG 52 kt)
	07/29/09 23:55 CST		0	Source: Mesonet
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SCURRY COUNTY --- SNYDER WINSTON ARPT [32.70, -100.95]				
	07/30/09 00:05 CST		0	Thunderstorm Wind (MG 52 kt)
	07/30/09 00:15 CST		0	Source: Mesonet
A shortwave trough embedded within northwesterly flow aloft provided sufficient lift and instability for scattered thunderstorms to develop.				
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LOVING COUNTY --- 9.0 NE MENTONE [31.79, -103.49], 12.8 NNE MENTONE [31.88, -103.54], 17.9 NNE MENTONE [31.93, -103.46], 15.2 NE MENTONE [31.84, -103.40]				
	07/30/09 12:30 CST		0	Flash Flood (due to Heavy Rain)
	07/31/09 03:00 CST		0	Source: Trained Spotter
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BREWSTER COUNTY --- 4.5 NNW ALPINE TERLINGUA ARP [29.51, -103.43]				
	07/30/09 16:03 CST		0	Hail (0.88 in)
	07/30/09 16:20 CST		0	Source: COOP Observer

Storm Data and Unusual Weather Phenomena - July 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
BREWSTER COUNTY --- 9.1 NW ALPINE TERLINGUA ARP [29.53, -103.52]				
	07/30/09 16:10 CST		0	Thunderstorm Wind (MG 63 kt)
	07/30/09 16:12 CST		0	Source: COOP Observer
BREWSTER COUNTY --- 4.8 NE CASTOLON [29.18, -103.46], 6.3 WSW PANTHER JUNCTION [29.26, -103.39], 4.9 SSW PANTHER JUNCTION [29.24, -103.34], 6.6 ENE CASTOLON [29.17, -103.42]				
	07/30/09 18:19 CST		0	Flash Flood (due to Heavy Rain)
	07/30/09 19:19 CST		0	Source: Law Enforcement
There were several impassible points along the Ross Maxwell Scenic Road due to high water.				
WINKLER COUNTY --- 12.6 WNW (INK)WINKLER CO ARPT [31.87, -103.39]				
	07/30/09 22:55 CST		2K	Thunderstorm Wind (EG 65 kt)
	07/30/09 22:56 CST		0	Source: Fire Department/Rescue
A powper pole was reported knocked down near the Winkler/Loving county line.				
ANDREWS COUNTY --- 1.3 WNW ANDREWS [32.33, -102.57], 1.1 NW ANDREWS CO ARPT [32.34, -102.54], 0.3 NW ANDREWS CO ARPT [32.33, -102.53], 0.6 E ANDREWS [32.32, -102.54], 0.9 WSW ANDREWS [32.32, -102.56]				
	07/31/09 02:10 CST		5K	Flash Flood (due to Heavy Rain)
	07/31/09 03:30 CST		0	Source: Law Enforcement
A vehicle was reported submerged within the city limits in Andrews. Roads on the northwest and northeast side of the city also had 1 foot of flowing water over them.				
ECTOR COUNTY --- 1.1 ESE GREENFIELD ACRES [31.86, -102.38], 1.2 NNW ODESSA [31.87, -102.38], 1.0 NNW ODESSA [31.86, -102.38], 1.1 NW ODESSA [31.86, -102.38]				
	07/31/09 02:59 CST		10K	Flash Flood (due to Heavy Rain)
	07/31/09 04:59 CST		0	Source: Broadcast Media
Multiple vehicles were submerged at the intersection of 23rd Street and Andrews Highway in Odessa. In addition, 12 to 16 inches of flowing water covered the same roadway.				
ECTOR COUNTY --- 2.6 SSW ODESSA [31.82, -102.39], 1.9 SE ODESSA [31.83, -102.34], 1.5 E ODESSA [31.85, -102.34], 1.3 SW ODESSA [31.83, -102.38]				
	07/31/09 06:55 CST		0	Flash Flood (due to Heavy Rain)
	07/31/09 07:30 CST		0	Source: Department of Highways

A cold front located near the Pecos River and surface based instability along the front resulted in thunderstorm development across southwest Texas. In addition, abnormally high amounts of atmospheric moisture lead to heavy rainfall for some locations.