

Storm Data and Unusual Weather Phenomena - October 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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IOWA, East Central and Southeast

KEOKUK COUNTY --- 1.8 NE DELTA [41.35, -92.31], 2.8 NE DELTA [41.36, -92.29]

10/02/07 17:35 CST	75K	Tornado (EF1, L: 1.00 mi , W: 100 yd)
10/02/07 17:37 CST	0	Source: NWS Storm Survey

This EF1 tornado, with an estimated wind speed of 100 mph, touched down at 635 pm CDT 1.8 miles northeast of Delta, near Highway 92. The tornado moved northeast at 45 mph for a distance of 1 mile, and had a maximum width of 100 yards. A cattle barn and machine shed were destroyed. One house sustained moderate structural damage, while another house received minor damage. A 3-ton horse trailer was lofted and then rolled 200 feet. Numerous trees were snapped off, and there was damage to corn and soybean crops. No injuries or fatalities were reported.

JOHNSON COUNTY --- 0.9 NE SOLON [41.81, -91.49]

10/02/07 18:20 CST	0	Hail (0.88 in)
10/02/07 18:20 CST	0	Source: Public

The public reported nickel size hail in Solon. Report relayed by KCRG-TV in Cedar Rapids.

JOHNSON COUNTY --- 0.9 NE SOLON [41.81, -91.49]

10/02/07 18:20 CST	0	Thunderstorm Wind (EG 50 kt)
10/02/07 18:20 CST	0	Source: Public

The public reported tree limbs of unknown diameter blown down in Solon. Report relayed by KCRG-TV in Cedar Rapids.

LINN COUNTY --- 0.5 W SPRINGVILLE [42.07, -91.46]

10/02/07 18:30 CST	0	Thunderstorm Wind (EG 56 kt)
10/02/07 18:30 CST	0	Source: Public

Public reported a 1 foot diameter pine tree snapped off and fell onto a house in Springville. Other large trees were uprooted and damage to crops occurred nearby.

CEDAR COUNTY --- BUCHANAN [41.77, -91.25]

10/02/07 19:00 CST	0	Thunderstorm Wind (EG 52 kt)
10/02/07 19:00 CST	0	Source: Trained Spotter

Trained spotter reported a shed blown down 6 W Tipton.

On October 2, 2007, low pressure in northern Minnesota and a strong cold front moving across eastern Iowa and northeast Missouri, triggered several lines of thunderstorms. A vigorous upper level disturbance spread large-scale ascent into the area, which developed a few severe thunderstorms during the late afternoon and early evening hours. Strong wind shear in the low levels, helped to spawn two tornadoes, one in southeast Iowa and the other in extreme northeast Missouri. The storms weakened considerably later in the evening, as they moved into western Illinois.

DELAWARE COUNTY --- 5.0 N MANCHESTER [42.55, -91.45], 5.0 E MANCHESTER [42.48, -91.35], 5.0 S MANCHESTER [42.41, -91.45], 5.0 W MANCHESTER [42.48, -91.55]

10/07/07 16:00 CST	0.50M	Flash Flood (due to Heavy Rain)
10/07/07 23:00 CST	0	Source: Emergency Manager

There were several reports of rainfall of 6 inches in the city of Manchester, with a trained spotter measuring 3 inches in one hour. Considerable basement and street flooding occurred, and there was some damage to gravel roads in the surrounding rural areas. Water was knee deep in some parts of the city, and many streets were closed. About 150 homes in the area had basement flooding or damage to foundations. The administration building at Manchester's school bus garage was flooded with two feet of water on the main floor. In only about 3 hours, the city received twice as much rain as it usually gets in the entire month of October.

On October 7, 2007 thunderstorms developed ahead of a cold front and trained across Delaware county in northeast Iowa. Rainfall of 6 inches fell in only about 3 hours in the late afternoon, causing considerable flash flooding in the city of Manchester, and surrounding rural areas. Many streets and basements were flooded, with some cars under water in Manchester. In the rural areas, ditches overflowed damaging gravel roads. No deaths or injuries were reported.

CEDAR COUNTY --- 0.9 NE LOWDEN [41.86, -90.92]

10/17/07 20:15 CST	7K	Thunderstorm Wind (MG 54 kt)
10/17/07 20:18 CST	0	Source: COOP Observer

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<p>The fire station in Lowden measured a peak gust of 62 mph during a thunderstorm, while a coop observer measured a 58 mph wind gust. Several trees were blown down in the Lowden area, and several cornfields were flattened. A machine shed was also damaged south of Lowden.</p>				

On October 17, 2007 a cold front moving into eastern Iowa triggered an area of rain and scattered thunderstorms. A localized microburst struck Lowden in Cedar county with a 62 mph wind gust. In Lowden, this storm downed a few trees, flattened some cornfields nearby and caused minor damage to the gutters of a house. South of town, there was damage to a machine shed.

MISSOURI, Northeast

SCOTLAND COUNTY --- 1.5 SW MEMPHIS [40.45, -92.19]

10/02/07 15:24 CST	10K	Thunderstorm Wind (EG 61 kt)
10/02/07 15:24 CST	0	Source: Newspaper

According to the Memphis Democrat newspaper, and NWS storm survey, a downburst hit the Lake Show-Me campgrounds about 1.5 miles southwest of Memphis. Winds were estimated at 70 mph, which hurled a camper several yards, which was destroyed. A sleeping occupant in the camper escaped unharmed. The storm also tore a bass boat off a trailer parked near the camper, and threw it into the wreckage. Another camper was rolled and came to rest on its roof against a nearby power pole. The parent thunderstorm then spawned a tornado nearby at the Scotland County Fairgrounds about a minute later.

SCOTLAND COUNTY --- 1.7 NE SHOW ME LAKE [40.45, -92.20], 1.6 SW MEMPHIS [40.46, -92.19]

10/02/07 15:25 CST	11K	Tornado (EF1, L: 0.82 mi , W: 210 yd)
10/02/07 15:26 CST	0	Source: NWS Storm Survey

An NWS storm survey indicated a EF1 tornado, with an estimated wind speed of 92 mph, touched down at 425 pm CDT about 1 mile southwest of Memphis, at the Scotland County Fairgrounds. The tornado moved northeast at 45 mph, and was on the ground for less than a mile, with a maximum width of 210 yards. Several barns at the fairgrounds had metal roofs peeled off, and doors blown in on several quonset huts. The entry gate building from the race track pits area was totally destroyed and strewn across the grounds. A billboard was damaged, and there was also damage to fences. Several trees and power poles were snapped and numerous branches were broken off trees. No injuries or fatalities were reported.

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