

Storm Data and Unusual Weather Phenomena - November 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ILLINOIS, Northwest				
HENRY COUNTY --- 0.7 N KEWANEE [41.24, -89.93]				
	11/22/10 02:20 CST	0		Thunderstorm Wind (EG 80 kt)
	11/22/10 02:20 CST	0		Source: Law Enforcement
Law enforcement reported 40 to 50 evergreen trees, 35 to 60 feet tall, broken off at the 20 foot level near Kewanee. Winds were estimated at over 90 mph.				
HANCOCK COUNTY --- 0.5 E DALLAS CITY [40.63, -91.16]				
	11/22/10 12:06 CST	0		Hail (1.25 in)
	11/22/10 12:06 CST	0		Source: Law Enforcement
Law enforcement estimated hail to half dollar size in Dallas City.				
HANCOCK COUNTY --- 0.5 E DALLAS CITY [40.63, -91.16]				
	11/22/10 12:10 CST	0		Hail (0.75 in)
	11/22/10 12:10 CST	0		Source: Trained Spotter
A trained spotter measured hail to penny size in Dallas City.				
HENDERSON COUNTY --- 1.3 WSW LOMAX [40.67, -91.09]				
	11/22/10 12:15 CST	0		Hail (2.00 in)
	11/22/10 12:15 CST	0		Source: Trained Spotter
A trained spotter estimated hail the size of hen eggs 4 miles southwest of Carman.				
HENDERSON COUNTY --- 2.6 E BIGGSVILLE [40.85, -90.82]				
	11/22/10 12:45 CST	0		Hail (1.00 in)
	11/22/10 12:45 CST	0		Source: Fire Department/Rescue
Fire department estimated hail to quarter size 2 miles east of Biggsville.				
WARREN COUNTY --- 0.7 S MONMOUTH [40.91, -90.63]				
	11/22/10 12:51 CST	0		Hail (0.75 in)
	11/22/10 12:51 CST	0		Source: Trained Spotter
A trained spotter measured hail to penny size near Monmouth.				
HENDERSON COUNTY --- 0.7 N RARITAN [40.71, -90.82]				
	11/22/10 13:50 CST	0		Hail (0.75 in)
	11/22/10 13:50 CST	0		Source: Trained Spotter
A trained spotter estimated hail to penny size and 50 mph winds 1 mile north of Raritan.				
BUREAU COUNTY --- 0.9 NW SHEFFIELD [41.36, -89.74]				
	11/22/10 14:00 CST	0		Hail (1.75 in)
	11/22/10 14:00 CST	0		Source: Public
The public reported golf ball size hail in Sheffield.				
HENRY COUNTY --- 1.0 S GALVA [41.16, -90.05], 3.0 ESE KEWANEE [41.21, -89.88]				
	11/22/10 14:00 CST	50K		Thunderstorm Wind (EG 87 kt)
	11/22/10 14:20 CST	0		Source: NWS Storm Survey

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A supercell tracked across portions of Henry county producing a swath of straight-line downburst winds as the thunderstorm moved rapidly to the northeast at 60 mph.				
Tree damage was first noted at the Galva cemetery near the county line, where roughly 10 pine trees were either snapped at the base or uprooted. The largest of which was 2 feet in diameter and tossed 25 yards to the east. About a dozen of the taller headstones were toppled from their bases. Farther to the northeast, sheet metal was torn from the roof of a Tyson building, and scattered into the surrounding fields a quarter mile to the east. Off of Route 78 southeast of Kewanee, a half dozen pine trees were snapped at the trunk with surrounding tall grass matted down to the east. Farther down the road to the east a corn crib was destroyed when it shifted off it's foundation. Continuing to the east, there were roughly 40 trees in a 35 year old wind break that were snapped at the trunks. There was also hail damage noted with chipped paint on west facing walls and scarred tree trunks. Ending 3 miles east southeast of Kewanee a barn roof was mostly ripped off, scattering debris a couple hundred yards to the east. Based on the damage, winds were estimated to be between 80 to 100 mph. At some locations the damage swath was one-half mile wide in southeast Henry county, Illinois.				

BUREAU COUNTY --- 0.9 NW SHEFFIELD [41.36, -89.74]

11/22/10 14:05 CST	0	Hail (1.00 in)
11/22/10 14:05 CST	0	Source: Emergency Manager

The emergency manager reported hail to quarter size in Sheffield.

HENRY COUNTY --- 0.5 E GALVA [41.17, -90.04]

11/22/10 14:08 CST	0	Hail (0.75 in)
11/22/10 14:08 CST	0	Source: Trained Spotter

A trained spotter estimated hail to penny size in Galva.

HENRY COUNTY --- 0.5 E GALVA [41.17, -90.04]

11/22/10 14:09 CST	0	Thunderstorm Wind (EG 80 kt)
11/22/10 14:09 CST	0	Source: Trained Spotter

A trained spotter reported several trees and power poles damaged, as well as some structural damage mainly south and southeast of Galva. Some semi-trucks were also overturned. Winds were estimated at 90 mph.

HENRY COUNTY --- 0.5 E GALVA [41.17, -90.04]

11/22/10 14:11 CST	0	Hail (1.75 in)
11/22/10 14:11 CST	0	Source: Emergency Manager

The emergency manager reported golf ball size hail in Galva.

HENRY COUNTY --- 1.7 SE KEWANEE MUNI ARPT [41.20, -89.93]

11/22/10 14:14 CST	0	Hail (1.00 in)
11/22/10 14:14 CST	0	Source: Trained Spotter

A trained spotter estimated quarter size hail 3 miles south of Kewanee.

HENRY COUNTY --- 1.7 SE KEWANEE MUNI ARPT [41.20, -89.93]

11/22/10 14:14 CST	0	Thunderstorm Wind (EG 61 kt)
11/22/10 14:14 CST	0	Source: Trained Spotter

A trained spotter estimated wind gusts to 70 mph 5 miles south of Kewanee.

HENRY COUNTY --- 3.6 SSE KEWANEE MUNI ARPT [41.17, -89.93]

11/22/10 14:15 CST	0	Hail (1.50 in)
11/22/10 14:15 CST	0	Source: Broadcast Media

WGEM-TV reported ping pong ball size hail 5 miles south of Kewanee near Routes 91 and 17.

HENRY COUNTY --- 3.6 SSE KEWANEE MUNI ARPT [41.17, -89.93]

11/22/10 14:15 CST	0	Thunderstorm Wind (EG 61 kt)
11/22/10 14:15 CST	0	Source: Broadcast Media

WGEM-TV reported winds estimated at 70 mph blew a 2 foot diameter tree down 5 miles south of Kewanee.

MCDONOUGH COUNTY --- 1.7 WSW NEW PHILADELPHIA [40.47, -90.50]

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	11/22/10 14:20 CST		0	Thunderstorm Wind (EG 65 kt)
	11/22/10 14:20 CST		0	Source: Law Enforcement

Law enforcement reported trees and power lines down 2 miles southwest of New Philadelphia. Winds were estimated at over 70 mph.

WHITESIDE COUNTY --- 0.5 E ROCK FALLS [41.77, -89.69]

	11/22/10 14:28 CST		0	Thunderstorm Wind (EG 65 kt)
	11/22/10 14:28 CST		0	Source: Law Enforcement

Law enforcement reported trees and power lines down on Rock Island Road near Rock Falls. Winds were estimated at over 70 mph.

Strong low pressure in southeast Colorado moved to eastern Iowa during the early afternoon of November 22, 2010. The deepening cyclone then moved to northern Lake Michigan by evening. There was a tremendous thermal gradient with temperatures below zero in the northern Plains, with 60s and 70s from the southern Plains to Lower Michigan. A squall line formed in advance of the intense cold front impacting extreme eastern Iowa and western Illinois. Impressive deep layer shear and very strong wind fields triggered several intense supercells, especially in Illinois. Hail up to the size of hen eggs and winds in excess of 70 mph were reported in western Illinois during the afternoon. An intense supercell moved rapidly northeast at 60 mph across portions of southeast Henry county in western Illinois. This storm produced a swath of significant downburst wind damage from 1 mile south of Galva to 3 miles southeast of Kewanee. Trees were snapped or uprooted and several outbuildings damaged or destroyed. A NWS survey showed the damage swath was one-half mile wide in some areas. Wind speeds were estimated at 80 to 100 mph.

IOWA, East Central and Southeast

LOUISA COUNTY --- 0.5 E WAPELLO [41.18, -91.19]

	11/22/10 12:43 CST		0	Hail (0.88 in)
	11/22/10 12:43 CST		0	Source: Trained Spotter

A trained spotter estimated hail to nickel size along with wind gusts in excess of 50 mph in Wapello.

Strong low pressure in southeast Colorado moved to eastern Iowa during the early afternoon of November 22, 2010. The deepening cyclone then moved to northern Lake Michigan by evening. There was a tremendous thermal gradient with temperatures below zero in the northern Plains, with 60s and 70s from the southern Plains to Lower Michigan. A squall line formed in advance of the intense cold front impacting extreme eastern Iowa and western Illinois. Impressive deep layer shear and very strong wind fields triggered several intense supercells, especially in Illinois. Hail the size of nickels were reported at Wapello, Iowa in Louisa county during the early afternoon.

(IA-Z040) BUCHANAN, (IA-Z041) DELAWARE, (IA-Z042) DUBUQUE, (IA-Z051) BENTON, (IA-Z052) LINN, (IA-Z053) JONES, (IA-Z063) IOWA

	11/24/10 12:00 CST		0	Winter Weather
	11/24/10 18:00 CST		0	

A short wave rippling along a 40 to 50 knot southwesterly low level jet and steep lapse rates produced a band of thunderstorms across northeast Iowa on November 24, 2010. Low pressure was over northeast Kansas with a warm front across central Missouri. Springlike gulf moisture existed to the south of the front with surface temperatures at or below freezing in eastern Iowa. These thunderstorms produced freezing rain and some sleet for several hours during the afternoon. However, ice accumulations were less than one-quarter inch with many areas only seeing a tenth of an inch of ice accretion, mainly on elevated surfaces.

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This photo is from Independence, Iowa where between 0.13" and 0.20" of ice accumulated on elevated surfaces. Photo courtesy of Danny Murphy, NWS cooperative observer.