

## Storm Data and Unusual Weather Phenomena - September 2008

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

### ILLINOIS, South

#### WABASH COUNTY --- 1.3 E MT CARMEL [38.42, -87.75], 1.0 SSE MT CARMEL [38.41, -87.76]

|                    |   |                         |
|--------------------|---|-------------------------|
| 09/03/08 14:40 CST | 0 | Heavy Rain              |
| 09/03/08 15:40 CST | 0 | Source: Trained Spotter |

Ponding of water was reported on most roads in Mount Carmel. A few low water crossings were underwater by about two inches. Water was up to the bottoms of cars in some places, especially on the east side of town.

Locally heavy rain occurred near a slow-moving cold front that extended from northeast to southwest across western Kentucky.

#### (IL-Z077) EDWARDS, (IL-Z078) WABASH, (IL-Z080) PERRY, (IL-Z081) FRANKLIN, (IL-Z083) WHITE, (IL-Z084) JACKSON, (IL-Z085) WILLIAMSON, (IL-Z086) SALINE, (IL-Z087) GALLATIN, (IL-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC

|                    |        |                       |
|--------------------|--------|-----------------------|
| 09/14/08 07:00 CST | 23.50M | High Wind (MAX 58 kt) |
| 09/14/08 11:00 CST | 17.50M |                       |

Frequent wind gusts from 60 to nearly 70 mph caused considerable damage in southern Illinois. The low pressure center that was the remnant of Hurricane Ike raced northeast at 40 to 50 mph across Missouri and Illinois. The center passed between Carbondale and St. Louis on its way toward the northeastern states. The rapid speed of the low pressure system contributed to this high wind event.

Considerable tree damage occurred. Trees were uprooted, and very large limbs were broken. Some trees fell on homes, outbuildings, and vehicles. Fewer than a dozen homes in each county were damaged by falling trees. Others fell on commercial and public buildings. Numerous trees or limbs fell on roads and blocked them. Road closures were mostly south and east of Franklin County. All roads were cleared of debris within 12 hours in most counties. Minor roof damage was reported on some structures, mostly shingles blown off. A few structures lost entire sections of roof, including the old fire station in Rosiclare (Hardin County). The worst roof damage was mainly in the counties bordering the Ohio River. Numerous power outages occurred as utility lines and even some power poles were brought down. About 36 percent of Jackson County (including Carbondale) and 20 percent of Saline County lost power. The most extensive utility damage was along and south of a Carbondale to Harrisburg line. Schools were cancelled due to power outages in isolated areas. Nearly all power was restored within 48 hours. Electrical problems resulted in a major house fire in West Frankfort. A barn under construction was destroyed 8 miles east of Benton. The walls of a 50-year-old storage building in Metropolis collapsed after the roof was blown off. Near Round Knob in Massac County, a barn was destroyed. A lumber shed near Glendale in Pope County collapsed. Chimney tops were blown off buildings in Pinckneyville. Large signs were blown down. The Wabash River bridge between Mt. Vernon, IN and New Haven, IL was closed due to huge tarps blown onto the roadway. The tarps were for protection of workers doing maintenance on the bridge. A peak wind gust of 67 mph was measured at Cairo, and a 61 mph gust was recorded at the Carbondale airport. Carmi measured a gust to 55 mph.

#### ALEXANDER COUNTY --- GALE [37.25, -89.45], 0.6 ENE THEBES [37.22, -89.46], 0.2 ENE THEBES [37.22, -89.47], 0.4 SW GALE [37.25, -89.46]

|                    |   |                           |
|--------------------|---|---------------------------|
| 09/17/08 12:00 CST | 0 | Flood (due to Heavy Rain) |
| 09/24/08 15:00 CST | 0 | Source: River/Stream Gage |

Moderate flooding of the Mississippi River occurred. At the Thebes river gage, the river crested at 38.56 feet on the 20th. Flood stage there is 33 feet. The flooding was the result of heavy rain due to the remnants of Hurricane Ike over much of Missouri and Illinois. Bottomland and low-lying fields near the river were flooded. Some low-lying sections near the communities of Gale and Thebes flooded, but no residences were affected.

#### JACKSON COUNTY --- 2.3 WSW MURPHYSBORO [37.76, -89.37], 2.4 WNW MT CARBON [37.76, -89.37], 1.5 W MT CARBON [37.75, -89.36], 1.7 WNW MT CARBON [37.76, -89.36]

|                    |   |                           |
|--------------------|---|---------------------------|
| 09/19/08 13:00 CST | 0 | Flood (due to Heavy Rain) |
| 09/22/08 18:00 CST | 0 | Source: River/Stream Gage |

Minor flooding of the Big Muddy River occurred. At the Murphysboro river gage, the river crested at 23.18 feet on the 21st. Flood stage there is 22 feet. The flooding was the result of backwater from the flooded Mississippi River. Bottomland and low-lying fields near the river were flooded.

### INDIANA, Southwest

#### POSEY COUNTY --- STEWARTSVILLE [38.18, -87.83]

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| Location | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details  |
|----------|--------------------|-------------------|---------------------|-------------------------|
|          | 09/08/08 22:52 CST |                   | 0                   | Hail (0.75 in)          |
|          | 09/08/08 22:52 CST |                   | 0                   | Source: Trained Spotter |

A strong surface cold front moved southeast across the Lower Ohio Valley, accompanied by scattered thunderstorms. An isolated occurrence of marginally severe hail occurred.

(IN-Z081) GIBSON, (IN-Z082) PIKE, (IN-Z085) POSEY, (IN-Z086) VANDERBURGH, (IN-Z087) WARRICK, (IN-Z088) SPENCER

|  |                    |   |     |                       |
|--|--------------------|---|-----|-----------------------|
|  | 09/14/08 09:00 CST |   | 32M | High Wind (MAX 61 kt) |
|  | 09/14/08 11:30 CST | 1 | 10M |                       |

Frequent wind gusts from 50 to 70 mph caused numerous problems in southwest Indiana. The low pressure center that was the remnant of Hurricane Ike raced northeast at 40 to 50 mph across Missouri and Illinois. The center passed between Carbondale, IL and St. Louis, MO on its way toward the northeastern states. The rapid speed of the low pressure system contributed to this high wind event. A peak wind gust of 64 mph was measured by the automated observing system at the Evansville airport. The highest sustained wind at the airport was 47 mph. An unofficial wind gust of 66 mph was measured at Newburgh.

Extensive tree damage occurred. Trees were uprooted and very large limbs were broken. Some trees fell on homes and vehicles, causing considerable damage. Other trees fell across roads, blocking them. Major roads were re-opened by nightfall, though smaller streets were blocked for up to two days. Blocked roads in Pike County included the major state roads, including Highways 61, 57, and 64. Roof and siding damage was reported on numerous structures. In Posey County, the north wall of the Mount Vernon water plant blew apart. Large signs were blown down. Numerous power poles and utility lines were down. Complete power restoration took several days. The Red Cross opened shelters in Evansville, Princeton, and Mount Vernon for those without power. In Winslow in Pike County, one person was trapped when a tree landed on a house. The person was rescued uninjured. In Evansville, a man was hospitalized after being trapped under a fallen tree for nearly an hour. Downed wires started a few field fires. A four-alarm field fire occurred near Newburgh in Warrick County. In Oakland City (Gibson County), an eight-square block area was evacuated for hours after a tree landed on a natural gas line. Railroad crossing gates were blown off in Chandler (Warrick County), and trees were cleared from railroad tracks. A sliding door was blown off a church near Evansville.

### KENTUCKY, Southwest

(KY-Z001) FULTON, (KY-Z002) HICKMAN, (KY-Z003) CARLISLE, (KY-Z004) BALLARD, (KY-Z005) MCCrackEN, (KY-Z006) GRAVES, (KY-Z007) LIVINGSTON, (KY-Z008) MARSHALL, (KY-Z009) CALLOWAY, (KY-Z010) CRITTENDEN, (KY-Z011) LYON, (KY-Z012) TRIGG, (KY-Z013) CALDWELL, (KY-Z014) UNION, (KY-Z015) WEBSTER, (KY-Z016) HOPKINS, (KY-Z017) CHRISTIAN, (KY-Z018) HENDERSON, (KY-Z019) DAVIESS, (KY-Z020) MCLEAN, (KY-Z021) MUHLENBERG, (KY-Z022) TODD

|  |                    |    |        |                       |
|--|--------------------|----|--------|-----------------------|
|  | 09/14/08 07:45 CST |    | 0.11B  | High Wind (MAX 68 kt) |
|  | 09/14/08 11:30 CST | 39 | 68.70M |                       |

(KY-Z020) MCLEAN

|  |                    |  |   |          |
|--|--------------------|--|---|----------|
|  | 09/14/08 09:45 CST |  | 0 | Wildfire |
|  | 09/14/08 13:00 CST |  | 0 |          |

Frequent wind gusts from 60 to nearly 80 mph caused widespread damage in western Kentucky. The low pressure center that was the remnant of Hurricane Ike raced northeast at 40 to 50 mph across Missouri and Illinois. The center passed between Carbondale and St. Louis on its way toward the northeastern states. The rapid speed of the low pressure system contributed to this high wind event.

Several counties reported hundreds of structures sustained roof and siding damage. Other counties reported dozens of damaged structures. The county of Crittenden alone estimated 1,500 homes sustained some degree of wind damage. Extensive tree damage occurred. Thousands of trees were uprooted and very large limbs were broken. Some trees fell on homes and vehicles, causing considerable damage. Hundreds of insurance claims were filed in each county for damaged vehicles and buildings. Dozens of roads in each county were blocked by downed trees and power lines. Well over a hundred roads were blocked in the most forested counties. About 280 roads and streets were blocked in Crittenden County. Large signs were blown down. Numerous fences were blown down. A number of awnings were damaged. Traffic lights were ripped off lines. The communications tower for the sheriff's department radio system was blown down in Marion (Crittenden County). Numerous power poles and utility lines were down, including power poles that were snapped. Over 30 power poles were snapped in Paducah alone. Approximately two-thirds of western Kentucky was without power at the peak of the outages. Complete power restoration took six days, though the vast majority of customers were back on line within 72 hours. Schools were closed in some counties until power was restored. Expenses of two utility companies in far western Kentucky were estimated at one million dollars per company. A utility company noted that the damage to its infrastructure could exceed that caused by the February ice storm. Most injuries were caused by trees or limbs falling on people clearing debris during the high winds. Seventeen of the injuries occurred in Hopkins County, and seventeen additional injuries requiring hospital treatment occurred in Daviess County. The only injury in Caldwell County was critical. A local hospital in the Madisonville area reported treating twelve people for minor storm-related injuries. In Graves County, one man was injured when a tree fell onto his house in Mayfield. The man sustained

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a cut under his right eye and a head injury when part of the roof hit him. He was treated and released from a local hospital. In Henderson County, one person was injured when a tree fell on a camper and trapped the victim. The Daviess County and Owensboro 911 dispatch centers received a combined total of 770 emergency calls related to the storm. A State of Emergency was declared in a number of counties, including Daviess, Lyon, Hickman, and Carlisle. The governor declared a statewide State of Emergency. Emergency shelters for those without power or shelter were established in a few counties such as Daviess, Carlisle, and Graves.

Peak wind gusts were measured to 78 mph at a barge-loading facility near Grand Rivers. An off-duty National Weather Service meteorologist measured a gust to 75 mph at Calvert City. Other measured wind gusts included 73 mph at the Owensboro courthouse, 67 mph at Madisonville, 66 mph in Muhlenberg County southwest of Greenville, and 64 mph in the northwest corner of Christian County. A wind speed of 62 mph was sustained for 15 minutes at a mesonet station in Bardwell in Carlisle County.

Daviess County reported 111 structures sustained major damage, 550 received minor damage, and nine were destroyed. Daviess County officials believed minor damage was significantly under reported, with perhaps another 1,000 structures receiving minor damage. The west wall on the second floor of an Owensboro business collapsed. A church steeple was heavily damaged in Owensboro. In Carlisle County alone, 20 homes and mobile homes were destroyed due to falling trees. Carlisle and Graves Counties reported hundreds of homes sustained varying degrees of wind damage, mainly to roofs. Only four houses were uninhabitable in Graves County. At least 250 structures were damaged in Fulton County. More than 100 homes and 30 to 40 barns in Ballard County received minor damage. In Mclean County, half the roof was blown off the Sacramento Elementary School. In Palma in Marshall County, a large front porch and roof was blown off a home. Roofs of several businesses in Benton (Marshall County) were severely damaged or partially blown off. The roof was blown off a factory in Earlington (Hopkins County). Numerous corn fields were flattened, and roofs were peeled off chicken houses in Fulton County. Five tobacco barns were knocked down in Graves County, and seven other tobacco barns caught fire in Calloway County. Numerous small fires were started as a result of damaged electrical lines. Some of the fires were grass and brush fires, and others involved homes and businesses. In Mclean County, one house in Sacramento was destroyed by a fire. Another fire burned 150 acres of farmland on Highway 136 in Calhoun. Windows were blown out of several buildings in McCracken and Graves Counties, as well as the towns of Eddyville, Providence, and Dawson Springs. Shingles were blown off the Paducah National Weather Service office at the airport, and the roof was blown off a nearby hangar under construction. A tractor-trailer rig was blown over on Interstate 24 near a Paducah exit, causing traffic to be detoured. In Webster County, a train struck a fallen tree on the tracks. There were no injuries or major damage. The Natcher Bridge over the Ohio River near Owensboro was closed when a crane barge broke free from its moorings and crashed into the piers. No major damage was reported to the bridge. On Kentucky Lake, the winds created high waves and raised water levels. The winds and waves sank barges, overturned docks, and washed dozens of boats onshore. Six barges loaded with coal sank near Grand Rivers.

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(KY-Z001) FULTON, (KY-Z002) HICKMAN, (KY-Z006) GRAVES, (KY-Z007) LIVINGSTON, (KY-Z008) MARSHALL, (KY-Z009) CALLOWAY, (KY-Z010) CRITTENDEN, (KY-Z011) LYON, (KY-Z012) TRIGG, (KY-Z013) CALDWELL, (KY-Z014) UNION, (KY-Z015) WEBSTER, (KY-Z016) HOPKINS, (KY-Z017) CHRISTIAN, (KY-Z018) HENDERSON, (KY-Z019) DAVIESS, (KY-Z020) MCLEAN, (KY-Z021) MUHLENBERG, (KY-Z022) TODD

|                    |   |         |
|--------------------|---|---------|
| 09/28/08 13:00 CST | 0 | Drought |
| 09/30/08 23:59 CST | 0 |         |

Parts of western Kentucky were classified as being in severe drought by the end of the month. September was dry for most of the region. Many Kentucky locations were two to three inches below normal for the month. Southern parts of western Kentucky reported less than 50 percent of normal rainfall during the preceding 90 days. The severe drought area was south of a line from Murray to Greenville. Much of the rest of western Kentucky was in moderate drought. Statewide, 77 percent of pastureland was rated poor or very poor. Bans on outdoor burning were imposed in all western Kentucky counties except Christian, Todd, and Livingston. Low water on the Ohio River caused some navigation concerns. Dredging operations on the Ohio River kept the channel open for all but a few days. The spots that required dredging were near Smithland Dam, Grand Chain dam, and the confluence with the Wabash River. Prolonged spring flooding deposited large amounts of silt that nearly clogged the channel once river levels dropped. Due to severe drought in the Tennessee Valley, the Cumberland and Tennessee Rivers were much lower than normal. The Cumberland River fell below the water intakes for the Crittenden-Livingston Water District. A high volume pump was positioned near the intakes to feed water back into the system. The governor requested federal aid for drought-stricken farmers. Though most corn was near the harvest stage, strong winds from the remnants of Ike flattened many stalks. Soybean losses were expected to be significant, but crop loss estimates were not available yet. At Paducah, only 1.03 inches fell in September. This was 2.75 inches below normal.

### MISSOURI, Southeast

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(MO-Z076) PERRY, (MO-Z086) BOLLINGER, (MO-Z087) CAPE GIRARDEAU, (MO-Z100) WAYNE, (MO-Z107) CARTER, (MO-Z108) RIPLEY, (MO-Z109) BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID

|                    |        |                       |
|--------------------|--------|-----------------------|
| 09/14/08 05:45 CST | 47.90M | High Wind (MAX 65 kt) |
| 09/14/08 09:00 CST | 1      | 27M                   |

Frequent wind gusts from 60 to 75 mph caused widespread damage in parts of southeast Missouri. The low pressure center that was the remnant of Hurricane Ike raced northeast at 40 to 50 mph across Missouri and Illinois. The center passed between Carbondale and St. Louis on its way toward the northeastern states. The rapid speed of the low pressure system contributed to this high wind event.

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Extensive tree damage occurred. A very large number of trees were uprooted, and large limbs were broken. Some trees fell on homes, businesses, and public buildings. Downed trees and limbs landed on many vehicles. Numerous streets and highways were blocked. More than half the streets in some cities were blocked by downed trees and power lines. The Butler County highway superintendent estimated 60 trees were down across roads. In Mississippi County, Charleston city public works crews hauled 321 truckloads of tree debris to a compost site within 10 days after the storm. Cape Girardeau firefighters responded to nearly 80 calls, up from the usual 8 to 10 per day. Roof and siding damage was reported on numerous structures. Two walls of a public civic center under construction were brought down in Dexter. Sections of roof were blown off a number of buildings, including a hotel in Piedmont (in Wayne Co.) and an apartment building and utility building in New Madrid. Some windows were broken out of homes and businesses, especially in New Madrid and Mississippi Counties. A dugout was destroyed in East Prairie. A small shed was blown over near Friedheim in Cape Girardeau County, and two roofs were blown off metal trailers at Fruitland. The communications tower for the Dexter Police Department was blown down. A church building in Matthews (New Madrid Co.) lost its steeple. One man was injured near Broseley in Butler County when a huge oak tree crashed into his bedroom while he was sleeping. The man was hit in the head by a 2-by-4 and inhaled some insulation. He was treated and released by a local hospital. His house sustained cracks in the walls and foundation, among other major structural damage. Near Poplar Bluff, a man and woman were extricated from their mobile home after a tree crashed into it. Both were pinned in their bed for about 30 minutes. Damage to utility poles and lines was comparable to the February ice storm disaster. A spokesman for a utility company serving the Ozark foothills (including Poplar Bluff) initially estimated 75 percent of its customers lost power. Power was restored to most places within a few days. Some of the hardest hit areas were in Mississippi County, including Charleston and East Prairie. Because pumps were disabled by the power outage, East Prairie water supplies ran very low. Two water towers became empty, and the third was down to a foot of water. Schools were cancelled for two to three days due to power outages in some cities, such as Charleston. Large signs were blown down across the region, including at least one on Interstate 55. A wind gust to 75 mph was measured at Doniphan in Ripley County by the emergency management director. The 75 mph gust occurred shortly after a wind shift to the north. Prior to the wind shift, gusts to 58 mph occurred from the south. The peak wind gust measured at the Poplar Bluff airport was 66 mph. A wind gust to 60 mph was measured at the Sikeston Power Plant. The peak gust measured at the Cape Girardeau airport was 56 mph before a power failure occurred. A tow boat captain on the Mississippi River reportedly measured a gust to 87 mph, but the details of the time and location could not be confirmed. Some crops were damaged. Lots of pecans and walnuts were blown off trees. Corn and cotton crops were flattened in some places. Preliminary estimates of lost corn yield ranged from 20 to 30 bushels per acre. A few minor fires were sparked by damaged electrical lines.

**SCOTT COUNTY --- 1.1 WSW COMMERCE [37.15, -89.47], 0.4 NW COMMERCE [37.15, -89.45], 0.2 W COMMERCE [37.15, -89.45], 0.7 WSW COMMERCE [37.15, -89.46]**

|                    |   |                           |
|--------------------|---|---------------------------|
| 09/16/08 12:00 CST | 0 | Flood (due to Heavy Rain) |
| 09/24/08 19:00 CST | 0 | Source: Newspaper         |

**CAPE GIRARDEAU COUNTY --- 1.1 ESE GULF JCT [37.27, -89.53], 1.4 E GULF JCT [37.27, -89.53], 0.9 SE CAPE GIRARDEAU [37.29, -89.52], 0.7 SE CAPE GIRARDEAU [37.29, -89.52]**

|                    |   |                           |
|--------------------|---|---------------------------|
| 09/16/08 12:15 CST | 0 | Flood (due to Heavy Rain) |
| 09/24/08 22:00 CST | 0 | Source: River/Stream Gage |

Moderate flooding of the Mississippi River occurred. At the Cape Girardeau gage, the river crested at 40.06 feet on the 21st. Flood stage there is 32 feet. The flooding was the result of heavy rain due to the remnants of Hurricane Ike over much of Missouri and Illinois. Two flood gates were closed in the Cape Girardeau floodwall. Floodwater crept over some roads, closing sections of roads near the downtown area of Cape Girardeau. City public works officials shut down traffic in ten locations. The river backed into several creeks, causing them to overflow. Bottomland and low-lying fields near the river were flooded. In Scott County, the only reported flooding was on Route E between Route N and Water Street in Scott City.

**CAPE GIRARDEAU COUNTY --- 1.2 NE CAPE GIRARDEAU [37.31, -89.51], 1.1 NNE CAPE GIRARDEAU [37.31, -89.52], 1.4 NNE CAPE GIRARDEAU [37.32, -89.52], 1.4 NE CAPE GIRARDEAU [37.32, -89.51]**

|                    |   |                                 |
|--------------------|---|---------------------------------|
| 09/19/08 17:15 CST | 0 | Flash Flood (due to Heavy Rain) |
| 09/19/08 18:15 CST | 0 | Source: Law Enforcement         |

The intersection of Highway 177 and North End Boulevard was closed due to standing water. A trained spotter in the area reported 1.4 inches of rain in 20 minutes.

**CAPE GIRARDEAU COUNTY --- 1.0 NE CAPE GIRARDEAU [37.31, -89.52]**

|                    |   |                         |
|--------------------|---|-------------------------|
| 09/19/08 17:19 CST | 0 | Hail (0.88 in)          |
| 09/19/08 17:19 CST | 0 | Source: Trained Spotter |

Nickel-size hail was reported, along with winds estimated around 40 mph.

An isolated severe storm occurred near a weak stationary front that extended from central Arkansas northeast along the Lower Ohio Valley.