

Storm Data and Unusual Weather Phenomena - February 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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ILLINOIS, South

(IL-Z080) PERRY, (IL-Z084) JACKSON, (IL-Z088) UNION, (IL-Z092) ALEXANDER

02/09/09 12:00 CST	4K	Strong Wind (MAX 40 kt)
02/09/09 16:00 CST	0	

South to southwest winds increased ahead of a strong cold front. Strong wind gusts to around 45 mph occurred from Perry County south across the Mississippi River counties. Winds gusted to 46 mph at the Carbondale airport.

(IL-Z076) WAYNE, (IL-Z077) EDWARDS, (IL-Z078) WABASH, (IL-Z081) FRANKLIN, (IL-Z082) HAMILTON, (IL-Z083) WHITE, (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

02/11/09 11:00 CST	0.17M	High Wind (MAX 56 kt)
02/11/09 16:00 CST	0	

A powerful low pressure system moved northeast across central Illinois. Damaging southwest winds occurred during the day as solar heating warmed the lower atmosphere. The peak wind gust was measured at 65 mph at the automated observing station at the Carmi airport in White County. Where the January 27 ice storm left weakened and hanging tree limbs, the wind caused another round of power outages. Ice storm power restoration efforts were set back about 12 hours. Large tree limbs were down. In Massac County, a window was blown out of the second story of a house about ten miles north of Metropolis. In Wayne County, the village of Sims was without power after a television antenna toppled onto a power line.

WABASH COUNTY --- 1.3 E MT CARMEL [38.42, -87.75], 1.4 SE MT CARMEL [38.41, -87.75], 1.6 ESE MT CARMEL [38.41, -87.75], 1.5 E MT CARMEL [38.42, -87.74]

02/13/09 21:00 CST	0	Flood (due to Heavy Rain)
02/23/09 21:00 CST	0	Source: River/Stream Gage

Minor flooding occurred on the Wabash River. At the Mount Carmel gage, the river crested at 24.86 feet on the 19th. Flood stage there is 19 feet. Extensive lowland flooding threatened some mobile homes. Installation of flood gate A at Mount Carmel was necessary. Access to local camp sites was blocked, but there was minimal impact to commercial activities because of gate closure. Several local roads were impassable. Water flowed over River Road just north of Fifth Street in the Mount Carmel area. All oil field production ceased with the exception of pumping units on substructures. Access to these was by boat only. Farmers moved livestock to higher ground.

WHITE COUNTY -- MAUNIE [38.03, -88.05], 0.9 E MAUNIE [38.03, -88.03], 1.8 NNE RISING SUN [38.02, -88.02], 0.7 ESE MAUNIE [38.02, -88.04]

02/14/09 22:00 CST	0	Flood (due to Heavy Rain)
02/24/09 03:00 CST	0	Source: River/Stream Gage

Minor flooding of the Wabash River occurred. At the New Harmony, IN gage, the river crested at 17.56 feet on the 21st. Flood stage there is 15 feet. Low-lying bottomlands along the river were flooded.

GALLATIN COUNTY --- SHAWNEETOWN [37.70, -88.13], 1.4 SW SHAWNEETOWN [37.68, -88.14], 1.5 SW SHAWNEETOWN [37.68, -88.15], 0.2 WNW SHAWNEETOWN [37.70, -88.13]

02/16/09 20:00 CST	0	Flood (due to Heavy Rain)
02/20/09 14:00 CST	0	Source: River/Stream Gage

Minor flooding occurred on the Ohio River, affecting low-lying bottomlands. At the Shawneetown gage, the river crested at 34.1 feet on the 18th. Flood stage there is 33 feet.

WAYNE COUNTY --- 3.4 S MT ERIE [38.47, -88.24], 3.6 S MT ERIE [38.47, -88.22], 4.5 S MT ERIE [38.46, -88.22], 4.3 S MT ERIE [38.46, -88.24]

02/17/09 22:00 CST	0	Flood (due to Heavy Rain)
02/22/09 12:00 CST	0	Source: River/Stream Gage

Minor flooding occurred on the Little Wabash River, affecting low-lying bottomlands. The Golden Gate/Mount Erie road was closed.

WHITE COUNTY --- CARMi [38.08, -88.17], 2.0 SE CARMi [38.06, -88.14], 3.7 S CARMi [38.03, -88.18], 2.5 E BROWNSVILLE [38.03, -88.20]

02/17/09 22:00 CST	0	Flood (due to Heavy Rain)
02/22/09 12:00 CST	0	Source: River/Stream Gage

Minor flooding occurred on the Little Wabash River, affecting low-lying bottomlands. At the Carmi river gage, the river crested at 28.02 feet on the 21st. Flood stage there is 27 feet.

A frontal boundary wavered across the area between the 6th and 11th, bringing scattered showers and storms each day. Total rainfall

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was generally 1 to 1.5 inches. Because the ground was still so wet from heavy precipitation in late January, there was some minor flooding along rivers.

INDIANA, Southwest

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

02/11/09 11:00 CST	0.23M	High Wind (MAX 52 kt)
02/11/09 16:00 CST	0	

A powerful low pressure system moved northeast across central Illinois. Damaging southwest winds occurred during the day as solar heating warmed the lower atmosphere. The peak measured wind gust in southwest Indiana was 63 mph at an unofficial observing site near Mount Vernon in Posey County. At the Evansville airport, the official peak gust was 59 mph. Where the January 27 ice storm left weakened and hanging tree limbs, the wind caused another round of power outages. Power lines and tree limbs were down at several locations in Gibson County. A few whole trees were down.

PIKE COUNTY --- PETERSBURG [38.50, -87.28], 3.5 NE PETERSBURG [38.54, -87.23], 3.3 NNE PETERSBURG [38.54, -87.25], 1.0 NNW PETERSBURG [38.51, -87.28]

02/11/09 22:00 EST	0	Flood (due to Heavy Rain)
02/21/09 10:00 EST	0	Source: River/Stream Gage

Minor flooding of the White River occurred. At the Petersburg gage, the river crested at 21.95 feet on the 18th. Flood stage there is 16 feet. State Road 257 south of Washington began to flood. Flooding affected higher bottomlands and may have affected any residents in an area known as Dodge City. Local roads leading to the Dodge City area were flooded. A few county roads flooded.

GIBSON COUNTY --- 1.3 NNW HAZLETON [38.50, -87.54], 1.6 WSW GIRO [38.49, -87.50], 1.2 SW GIRO [38.49, -87.49], 0.9 NNW HAZLETON [38.49, -87.54]

02/12/09 17:45 CST	0	Flood (due to Heavy Rain)
02/22/09 21:00 CST	0	Source: River/Stream Gage

Minor flooding of the White River occurred. At the Hazleton gage, the river crested at 21.70 feet on the 19th. Flood stage there is 16 feet. Most of the low bottomlands flooded, and flooding began in higher bottomlands. High water affected any residents still in river cabins. A few local roads were flooded. Oil stripped fields flooded. Flood gates were installed at Hazleton. Flood waters covered the Hazleton softball field.

GIBSON COUNTY --- EAST MT CARMEL [38.40, -87.73], 1.5 WSW EAST MT CARMEL [38.39, -87.76], 1.2 NNW EAST MT CARMEL [38.41, -87.74], 1.0 NNE EAST MT CARMEL [38.41, -87.72]

02/13/09 17:00 CST	0	Flood (due to Heavy Rain)
02/23/09 17:00 CST	0	Source: River/Stream Gage

Minor flooding occurred on the Wabash River. At the Mount Carmel, IL gage, the river crested at 24.86 feet on the 19th. Flood stage there is 19 feet. Extensive lowland flooding occurred. Access to local camp sites was blocked, but there was minimal impact to commercial activities. Several local roads were impassable. All oil field production ceased with the exception of pumping units on substructures. Access to these was by boat only. Farmers moved livestock to higher ground.

POSEY COUNTY --- NEW HARMONY [38.13, -87.93], 0.6 WNW NEW HARMONY [38.13, -87.94], 0.8 NNE NEW HARMONY [38.14, -87.93], 0.9 NE NEW HARMONY [38.14, -87.92]

02/14/09 20:00 CST	0	Flood (due to Heavy Rain)
02/24/09 20:00 CST	0	Source: River/Stream Gage

Minor flooding of the Wabash River occurred. At the New Harmony gage, the river crested at 17.56 feet on the 21st. Flood stage there is 15 feet. Low-lying bottomlands along the river were flooded.

A frontal boundary wavered across the area between the 6th and 11th, bringing scattered showers and storms each day. Total rainfall was generally 1 to 1.5 inches. Because the ground was still so wet from heavy precipitation in late January, there was some minor flooding along rivers.

KENTUCKY, Southwest

MUHENBERG COUNTY --- PARADISE [37.27, -86.98], 1.4 SE PARADISE [37.25, -86.96], 1.3 S PARADISE [37.25, -86.98], 0.5 WSW PARADISE [37.27, -86.99]

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	02/01/09 00:00 CST		0	Flood (due to Heavy Rain)
	02/05/09 17:00 CST		0	Source: River/Stream Gage

Flooding of the Green River continued from late January. At the Paradise gage, the river crested at 387.40 feet on the 2nd. Flood stage there is 380 feet. Minor flooding of low-lying fields and wooded areas occurred near the river.

Temperatures during the January 27 ice storm were warm enough over the Green River basin to allow for rapid runoff. The Green River rose above flood stage at Paradise on January 29 and continued rising into early February.

BALLARD COUNTY --- BANDANA [37.15, -88.95], 1.7 W MONKEYS EYEBROW [37.18, -89.01]

02/11/09 07:45 CST	0	Heavy Rain
02/11/09 09:45 CST	0	Source: Unknown

Standing water was over some roads. Ditches and small streams were full.

As low pressure deepened over the Ozarks of Missouri, a strong southwest wind flow of moist air contributed to numerous showers and thunderstorms. Some of these produced heavy rain.

CHRISTIAN COUNTY --- HOPKINSVILLE [36.85, -87.48], 2.1 SSW HONEY GROVE [36.85, -87.31]

02/11/09 11:00 CST	1K	Thunderstorm Wind (EG 52 kt)
02/11/09 11:00 CST	0	Source: Emergency Manager

A trained spotter estimated wind gusts to 60 mph in Hopkinsville. Sections of tin roof were blown off a barn east of the city near the Todd County line.

HOPKINS COUNTY --- DAWSON SPGS [37.17, -87.70]

02/11/09 11:00 CST	0	Thunderstorm Wind (EG 52 kt)
02/11/09 11:00 CST	0	Source: Trained Spotter

A narrow squall line developed over western Kentucky as daytime heating destabilized the atmosphere ahead of a vigorous upper level disturbance. This line produced isolated reported of wind damage.

(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

02/11/09 11:00 CST	1.41M	High Wind (MAX 63 kt)
02/11/09 16:00 CST	0	

A powerful low pressure system moved northeast across central Illinois. Damaging southwest winds occurred during the day as solar heating warmed the lower atmosphere. The highest reported measured wind gust in western Kentucky was 73 mph at the Owensboro airport. Other peak wind gusts included 63 mph at the Paducah airport, 63 mph at a mesonet site near Madisonville, 62 mph at a mesonet site north of Hopkinsville in Christian County, 61 mph at Fort Campbell, and 58 mph at a mesonet site near Princeton. An unofficial observing site at Murray State University measured a 65 mph gust. Where the January 27 ice storm left weakened and hanging tree limbs, the wind caused another round of power outages. Power was restored to most of those who lost power in the high winds within several hours. Trees and limbs were blown down, and a few trees were even uprooted. Several roads in each county were obstructed by fallen tree limbs or roadside brush blowing into the roadway. A number of roofs were damaged across western Kentucky, and a few were blown off. Signs were damaged or blown over. A future lawn and garden center under construction was blown down in Paducah. A grocery store in Reidland (just east of Paducah) lost part of its roof. A few power poles were broken in Murray. In Calloway County, winds took off the metal roof of a shop building just outside Murray on Ky 121, blew over a shed on Crossland Road, blew a large tree onto a house in Murray, and caused some damage to the roof of a large manufacturing building. A Calloway County road was blocked by live power lines. At Fort Campbell near Hopkinsville, wind caused an estimated 200,000 dollars damage to residential structures. An estimated 2,500 homes sustained at least minor damage, such as stripped shingles. Sheds were damaged or blown over. In Hopkins County, numerous trees and power lines were down. A mobile home was blown over at Princeton. A farm supply store in Crittenden County lost part of its roof. Two brick buildings in downtown Morganfield (Union County) partially collapsed. A total of six vehicles parked in front of the collapsed buildings were damaged by falling debris. Three tractor-trailer rigs were overturned in Henderson County, including two on the Pennyrile Parkway and one on the Audubon Parkway. In Muhlenberg County, widespread power outages were reported, and the roof of a school in Bremen was partially peeled off. Sections of metal siding were blown off the Pennyrile Mall in Hopkinsville. In Cadiz (Trigg County), a few buildings were unroofed. Portions of a large shed roof were damaged in northern Graves County.

CHRISTIAN COUNTY --- (HOP)FT CAMPBELL AAF [36.67, -87.50]

02/11/09 11:07 CST	0	Thunderstorm Wind (MG 53 kt)
02/11/09 11:07 CST	0	Source: ASOS

A wind gust to 61 mph was measured at the Fort Campbell military base near the Tennessee border.

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TODD COUNTY --- GUTHRIE [36.65, -87.17]

	02/18/09 00:45 CST		0	Hail (0.88 in)
	02/18/09 00:45 CST		0	Source: Trained Spotter

CHRISTIAN COUNTY --- OAK GROVE [36.67, -87.43]

	02/18/09 09:30 CST		0	Hail (0.75 in)
	02/18/09 09:30 CST		0	Source: Trained Spotter

Penny size hail was reported along Interstate 24.

A surface low pressure center tracked from northwest Missouri to northern Indiana. Thunderstorms developed as warm and moist air spread northward in advance of an eastward-moving cold front. These thunderstorms produced a couple of dime to nickel size hail events.

HOPKINS COUNTY --- 1.9 NE ANTON [37.37, -87.35], 1.6 ENE ANTON [37.36, -87.35]

	02/27/09 01:40 CST		80K	Thunderstorm Wind (EG 70 kt)
	02/27/09 01:40 CST	2	0	Source: NWS Storm Survey

A mobile home was overturned and demolished. The occupants of the mobile home were slightly injured, receiving only scratches and bruises. The mobile home was not tied down. The outer wall of a nearby cinder block garage was pushed in. Shingles were torn off a neighbor's house, causing water to leak in.

MCLEAN COUNTY --- 2.2 SSE SACRAMENTO [37.39, -87.25], 2.2 SE SACRAMENTO [37.40, -87.24]

	02/27/09 01:50 CST		0.15M	Thunderstorm Wind (EG 70 kt)
	02/27/09 01:50 CST		0	Source: NWS Storm Survey

A small storage barn was unroofed. Another larger storage structure collapsed. An airplane was flipped over at a small airstrip. Two carports were damaged.

MUHLENBERG COUNTY --- 2.1 WNW MOORMAN [37.39, -87.18]

	02/27/09 01:53 CST		70K	Thunderstorm Wind (EG 78 kt)
	02/27/09 01:53 CST		0	Source: NWS Storm Survey

The roof was blown off a large shed. Moderate damage occurred to grain bins. A steel beam shed was blown off its foundation. A power pole was down. The damage area was about 300 yards wide and one-quarter mile long.

An isolated thunderstorm acquired supercellular characteristics as it moved east of Madisonville and then along the Mclean/Muhlenberg County border. The storm occurred as a cold front moved southeast across the Lower Ohio Valley.

(KY-Z001) FULTON

	02/28/09 13:00 CST		0	Heavy Snow
	02/28/09 21:00 CST		0	

A compact but intense upper level low moved southeast from the central Plains to the Lower Mississippi Valley. This system produced a swath of heavy snowfall across the extreme southwest corner of Kentucky, around Fulton County. Snowfall was about 4 inches, which fell in just six hours. Numerous accidents occurred on slick and snow-covered roads.

MISSOURI, Southeast

(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

	02/09/09 12:00 CST		9K	Strong Wind (MAX 39 kt)
	02/09/09 15:00 CST		0	

South to southwest winds increased ahead of a strong cold front. Strong wind gusts to around 45 mph occurred over most counties except the two Kentucky border counties. Winds gusted to 44 mph at the Cape Girardeau airport.

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WAYNE COUNTY --- PIEDMONT [37.17, -90.72], 1.4 S MILL SPG [37.05, -90.70], 1.9 SE MILL SPG [37.05, -90.67], 0.7 NW HIRAM [37.19, -90.33], 1.1 SE CLUBB [37.21, -90.33]				
	02/11/09 04:00 CST		0	Flash Flood (due to Heavy Rain)
	02/11/09 07:00 CST		0	Source: Law Enforcement

From Piedmont south to Mill Spring, flash flooding occurred as creeks and streams overflowed. Route C was closed from Highway 34 to Route E.

BOLLINGER COUNTY --- MARBLE HILL [37.30, -89.97], 1.0 N LUTESVILLE [37.31, -89.98], 0.9 NW LUTESVILLE [37.31, -89.99], 0.1 ESE LUTESVILLE [37.30, -89.98]				
	02/11/09 09:00 CST		5K	Flood (due to Heavy Rain)
	02/11/09 16:00 CST		0	Source: Newspaper

Crooked Creek rose out of its banks. In Marble Hill, the city park and several side streets were flooded. A laundry facility was flooded, prompting an evacuation of the business. The flooding occurred mostly in an area designated as a flood buyout area that may be used as a park.

As low pressure deepened over the Ozarks of Missouri, a strong southwest wind flow of moist air contributed to numerous showers and thunderstorms. Some of these produced heavy rain.

(MO-Z087) CAPE GIRARDEAU, (MO-Z110) STODDARD, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID				
	02/11/09 11:00 CST		90K	High Wind (MAX 50 kt)
	02/11/09 16:00 CST		0	

A powerful low pressure system moved northeast across central Illinois. Damaging southwest winds occurred during the day as solar heating warmed the lower atmosphere. A peak wind gust of 58 mph was measured at a television station in Cape Girardeau. Where the January 27 ice storm left weakened and hanging tree limbs, the wind caused another round of power outages. Ice storm power restoration efforts were set back slightly. Additional tree limbs and power lines were brought down. In Scott County, a 12,000-volt power line came down across Interstate 55 at Highway 77 near Benton. Power poles were down in Mississippi County. Most of Sikeston lost power when a 69,000-volt line went down. The vast majority of customers had power restored by the end of the day.

WAYNE COUNTY --- 1.9 ENE SILVA [37.18, -90.49], 2.8 NNE SILVA [37.21, -90.50], 2.5 N SILVA [37.21, -90.52], 1.4 NE SILVA [37.18, -90.50]				
	02/11/09 23:00 CST		0	Flood (due to Heavy Rain)
	02/12/09 12:00 CST		0	Source: River/Stream Gage

Minor flooding of the St. Francis River occurred. At the Patterson gage, the river crested at 19.04 feet on the 12th. Flood stage there is 16 feet. Mainly bottomland and surrounding low-lying fields were affected. Route FF was closed near U.S. Highway 67.

BUTLER COUNTY --- POPLAR BLUFF [36.75, -90.40], 0.6 ESE POPLAR BLUFF [36.75, -90.39], 0.6 ENE POPLAR BLUFF [36.75, -90.39], 0.3 NE POPLAR BLUFF [36.75, -90.40]				
	02/12/09 07:00 CST		0	Flood (due to Heavy Rain)
	02/13/09 08:00 CST		0	Source: River/Stream Gage

Minor flooding of the Black River occurred at Poplar Bluff. The river crested at 16.61 feet on the 12th. Flood stage there is 16 feet. Mainly bottomland and surrounding low-lying areas were affected.

A frontal boundary wavered across the area between the 6th and 11th, bringing scattered showers and storms each day. Total rainfall was generally 1 to 1.5 inches. Because the ground was still so wet from heavy precipitation in late January, there was some minor flooding along rivers.

(MO-Z107) CARTER, (MO-Z108) RIPLEY, (MO-Z109) BUTLER, (MO-Z110) STODDARD, (MO-Z114) NEW MADRID				
	02/28/09 11:00 CST		0	Heavy Snow
	02/28/09 20:00 CST		0	

A compact but intense upper level low moved southeast from the central Plains to the Lower Mississippi Valley. This system produced a swath of heavy snowfall across portions of southeast Missouri, along and south of a line from Van Buren to Poplar Bluff to New Madrid. Six inches of snow fell at Ellsinore (Carter County) and Neelyville (Butler County), five inches fell near Poplar Bluff, and four inches fell at Dudley (Stoddard County). Law enforcement officials estimated four to five inches at New Madrid. Snow fell at the rate of 1 inch per hour, covering roads faster than maintenance crews could clear it. At Poplar Bluff, visibility was one-quarter mile for about 30 minutes and one mile or less for seven hours. Roads were snow-covered and slippery. A number of vehicles slid off roads.