

## Storm Data and Unusual Weather Phenomena - August 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>ILLINOIS, South</b>				
<b>(IL-Z075) JEFFERSON, (IL-Z076) WAYNE, (IL-Z080) PERRY, (IL-Z081) FRANKLIN, (IL-Z082) HAMILTON, (IL-Z084) JACKSON, (IL-Z085) WILLIAMSON, (IL-Z086) SALINE, (IL-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC</b>				
	08/02/09 02:00 CST		0	Dense Fog
	08/02/09 06:00 CST		0	
Widespread dense fog developed in response to clear skies, light winds, and moist ground from recent rain. The dense fog covered most of southern Illinois except for the Wabash Valley counties. High pressure was centered over the southern Plains, with a ridge extending northeast to the upper Mississippi Valley.				
<b>JACKSON COUNTY --- (MDH)CRBNDL/MRFYSBRO [37.78, -89.25]</b>				
	08/04/09 15:29 CST		0	Thunderstorm Wind (MG 61 kt)
	08/04/09 15:29 CST		0	Source: ASOS
The automated observing system at the Southern Illinois Airport just north of Carbondale measured a wind gust to 70 mph.				
<b>WILLIAMSON COUNTY --- CRAB ORCHARD [37.73, -88.80]</b>				
	08/04/09 15:50 CST		15K	Thunderstorm Wind (EG 52 kt)
	08/04/09 15:50 CST		0	Source: Law Enforcement
A tree was blown down on a car.				
<b>SALINE COUNTY --- HARRISBURG [37.73, -88.55], CARRIERS MILLS [37.68, -88.65]</b>				
	08/04/09 15:55 CST		0	Heavy Rain
	08/04/09 16:25 CST		0	Source: Law Enforcement
Street flooding was reported in the cities of Harrisburg and Carrier Mills. A firefighter in Harrisburg measured 1.75 inches of rain. Water was briefly over a road near Ledford.				
<b>UNION COUNTY --- COBDEN [37.53, -89.25], ANNA [37.47, -89.25]</b>				
	08/04/09 15:55 CST		50K	Thunderstorm Wind (EG 61 kt)
	08/04/09 16:10 CST		0	Source: Emergency Manager
Numerous trees and power lines were down in northern and central Union County, including the communities of Anna, Jonesboro, and Cobden. Winds were estimated up to 70 mph in Cobden.				
<b>SALINE COUNTY --- CARRIERS MILLS [37.68, -88.65], HARRISBURG [37.73, -88.55]</b>				
	08/04/09 15:57 CST		40K	Thunderstorm Wind (EG 52 kt)
	08/04/09 16:06 CST		0	Source: Law Enforcement
The roof was peeled off a mobile home in Carrier Mills. Several trees and power lines were blown down in Harrisburg. One large oak tree landed across a street and power lines, closing the street for a few hours.				
<b>POPE COUNTY --- 3.0 W DELWOOD [37.58, -88.62]</b>				
	08/04/09 16:05 CST		0	Funnel Cloud
	08/04/09 16:05 CST		0	Source: Airplane Pilot
Two pilots reported a funnel cloud.				
<b>JOHNSON COUNTY --- WEST VIENNA [37.43, -88.97]</b>				
	08/04/09 16:15 CST		3K	Thunderstorm Wind (EG 52 kt)
	08/04/09 16:15 CST		0	Source: Law Enforcement
Trees were blown down at the intersection of Highways 37 and 146.				
<b>ALEXANDER COUNTY --- TAMMS [37.23, -89.27], MILLER CITY [37.12, -89.37]</b>				
	08/04/09 16:50 CST		20K	Thunderstorm Wind (EG 52 kt)
	08/04/09 17:05 CST		0	Source: Emergency Manager

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Trees were blown down countywide, primarily in the communities of Tamms, Olive Branch, and Miller City.

**An organized complex of thunderstorms developed ahead of a cold front as it approached southern Illinois and southeast Missouri during the hottest and most unstable time of day. Very strong instability, coupled with moderately strong mid-level winds, resulted in numerous damaging wind events. Most of the damaging winds were associated with small-scale bows that raced southeast ahead of the main storm complex.**

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### WILLIAMSON COUNTY --- (MWA)MARION WLLMSON [37.75, -89.02]

08/10/09 17:38 CST		0		Thunderstorm Wind (MG 60 kt)
08/10/09 17:38 CST		0		Source: AWOS

A wind gust to 69 mph was measured by the Williamson County Regional Airport's automated observing system.

**A large cluster of thunderstorms sagged southeast into a region of relatively steep low level lapse rates where strong solar heating occurred. Moderately strong instability and ample low level moisture contributed to storm maintenance. A few of the stronger storms produced strong damaging outflow winds.**

## INDIANA, Southwest

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### PIKE COUNTY --- 0.8 NW ASHBY [38.49, -87.29]

08/04/09 11:48 EST		5K		Thunderstorm Wind (EG 52 kt)
08/04/09 11:48 EST		0		Source: Law Enforcement

Trees were down along Highway 56 on the west side of Petersburg.

**A couple of storms became severe as they intensified during the heat of the day. The storms occurred in the zone of strongest southerly low-level winds ahead of a cold front over western Illinois.**

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### GIBSON COUNTY --- FT BRANCH [38.25, -87.58]

08/10/09 15:15 CST		0		Heavy Rain
08/10/09 16:30 CST		0		Source: Trained Spotter

A skywarn spotter reported 1.20 inches of rain in 30 minutes. This caused minor street flooding, and small streams topped their banks.

**A large cluster of thunderstorms sagged southeast into a region of relatively steep low level lapse rates where strong solar heating occurred. Moderately strong instability and ample low level moisture contributed to storm maintenance. A few of the stronger storms produced strong outflow winds. Heavy rain occurred due to the size and speed of the complex.**

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### PIKE COUNTY --- 1.0 NNW PETERSBURG [38.51, -87.28], 1.9 NNE PETERSBURG [38.52, -87.26], 1.5 NE PETERSBURG [38.52, -87.26], 0.7 NNW PETERSBURG [38.51, -87.28]

08/12/09 22:00 EST		0		Flood (due to Heavy Rain)
08/14/09 04:00 EST		10K		Source: River/Stream Gage

At the Petersburg river gage, the White River crested at 16.19 feet. This is just above the flood stage of 16 feet. There was minor flooding of low-lying fields near the river, including some cropland.

**Minor flooding occurred on parts of the White River. River flooding in August is very rare here. This was the first river flooding in August at Petersburg since 1979. The flood occurred because much of southeast Indiana was on the wet side following rainfall of 1 to 4 inches at the end of July. The same area and more were struck on August 4th. Without the rains at the end of July, the river flooding would not have occurred. Much of southeast Indiana received 2 to more than 12 inches of rain from the afternoon of July 29th through August 4th.**

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### WARRICK COUNTY --- 1.3 WNW PARADISE [37.99, -87.40], 0.6 NNE PARADISE [37.99, -87.38], 1.6 ENE NEWBURGH [37.96, -87.39], 1.1 NE NEWBURGH [37.96, -87.41]

08/18/09 19:03 CST		30K		Flash Flood (due to Heavy Rain)
08/18/09 21:30 CST		0		Source: Law Enforcement

Flash flooding was reported along a few roads, including Highways 66 and 261. Water was up to vehicle doors on Highway 66. Three vehicles were stranded in high water on Highway 261 just outside Newburgh. One vehicle was stranded at the intersection of Highways 66 and 261. The main flooded area was on Highway 261 from Highway 66 southward toward Newburgh. There was an unconfirmed report of four inches of rain in Newburgh. A trained spotter in Newburgh measured 1.99 inches in an hour.

**Thunderstorms developed ahead of a cold front as it approached southern Illinois and southeast Missouri from the northwest. Some of these storms produced torrential rain.**

## Storm Data and Unusual Weather Phenomena - August 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>KENTUCKY, Southwest</b>				
<b>HENDERSON COUNTY --- HENDERSON [37.83, -87.58], BASKETT [37.87, -87.47]</b>				
	08/01/09 19:58 CST		0	Heavy Rain
	08/01/09 20:45 CST		0	Source: Trained Spotter
Urban street flooding occurred in downtown Henderson. Several inches of water covered 8th Street. Two to three inches of water was over U.S. Highway 60 between Baskett and Henderson.				
Thunderstorms produced locally heavy rain and minor flooding. The storms occurred ahead of a cold front over southern Illinois and an upper level trough over Missouri.				
<b>(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</b>				
	08/02/09 02:00 CST		0	Dense Fog
	08/02/09 06:00 CST		0	
Widespread dense fog developed in response to clear skies, light winds, and moist ground from recent rain. The dense fog covered far western Kentucky along and west of a Marion to Princeton to Cadiz line. High pressure was centered over the southern Plains, with a ridge extending northeast to the upper Mississippi Valley.				
<b>MUHLENBERG COUNTY --- ROSEWOOD [37.08, -87.08]</b>				
	08/04/09 14:15 CST		0	Hail (0.88 in)
	08/04/09 14:15 CST		0	Source: Broadcast Media
<b>LIVINGSTON COUNTY --- CARRSVILLE [37.40, -88.38]</b>				
	08/04/09 16:30 CST		4K	Thunderstorm Wind (EG 52 kt)
	08/04/09 16:30 CST		0	Source: Emergency Manager
Shingles were blown off the roof of a house.				
<b>CRITTENDEN COUNTY --- MARION [37.33, -88.08]</b>				
	08/04/09 17:00 CST		45K	Thunderstorm Wind (EG 56 kt)
	08/04/09 17:00 CST		10K	Source: Emergency Manager
Numerous trees and power lines were blown down. One home was damaged when power lines were pulled from the side of it. Carports were blown down. A barn was blown down.				
<b>CRITTENDEN COUNTY --- MARION [37.33, -88.08], 1.5 E MEXICO [37.23, -88.07]</b>				
	08/04/09 17:00 CST		0.25M	Hail (1.75 in)
	08/04/09 17:07 CST		30K	Source: Emergency Manager
A swath of large hail affected much of the county. Quarter-size hail fell in Marion. Golf-ball size hail fell in Crayne. Significant hail damage occurred in Crayne, where mobile homes were riddled with holes. Windows were broken, and vehicles were damaged. Roofs and siding of houses were heavily damaged. A dozen or more homes suffered damage. Corn and soybean fields were badly damaged.				
<b>BALLARD COUNTY --- BARLOW [37.05, -89.05], 1.4 SW MONKEYS EYEBROW [37.17, -89.00]</b>				
	08/04/09 17:10 CST		30K	Thunderstorm Wind (EG 52 kt)
	08/04/09 17:25 CST		0	Source: Emergency Manager
Several roads and intersections were blocked by downed trees and power lines. Damage was reported at several locations around the county, including Barlow. Downed power lines started small fires.				
<b>CALDWELL COUNTY --- 1.6 NNE FREDONIA [37.22, -88.06], 2.0 SE PRINCETON [37.10, -87.84]</b>				
	08/04/09 17:10 CST		25K	Thunderstorm Wind (MG 58 kt)
	08/04/09 17:30 CST		0	Source: Mesonet
Widespread damaging wind gusts from 60 to 70 mph raked parts of Caldwell County. The mesonet site two miles southeast of Princeton measured a wind gust to 67 mph. A trained spotter in Princeton estimated gusts to 65 mph. Near Fredonia, two barn roofs were blown off, blocking County Road 902 East. On Highway 293 north of Princeton, a carport was blown down, and windows were blown out of a building.				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>MARSHALL COUNTY --- CALVERT CITY [37.03, -88.35]</b>				
	08/04/09 17:12 CST		0	Thunderstorm Wind (EG 56 kt)
	08/04/09 17:12 CST		0	Source: Trained Spotter
Trees were bowing due to wind gusts estimated up to 65 mph by a spotter.				
<b>MCCRACKEN COUNTY --- 2.4 N KREBS [37.01, -88.63]</b>				
	08/04/09 17:15 CST		8K	Thunderstorm Wind (EG 52 kt)
	08/04/09 17:15 CST		0	Source: Emergency Manager
About 30 feet of the roof of a mobile home was peeled back. Minor damage occurred at neighboring residences, and a road was blocked by downed limbs.				
<b>CRITTENDEN COUNTY --- MARION [37.33, -88.08]</b>				
	08/04/09 17:30 CST		10K	Heavy Rain
	08/04/09 19:00 CST		0	Source: Emergency Manager
A culvert along U.S. Highway 641 was washed out, causing minor damage to the road.				
<b>CHRISTIAN COUNTY --- 1.7 WSW PLEASANT GREEN HILL [36.92, -87.55], 1.0 W PEMBROKE [36.78, -87.37]</b>				
	08/04/09 17:55 CST		0.15M	Thunderstorm Wind (EG 61 kt)
	08/04/09 18:10 CST		0	Source: Trained Spotter
Trees, power lines, and power poles were blown down. Trees fell on at least several vehicles. Tree limbs were down on roads, blocking several of them. The roof over an indoor pool at an apartment complex on the southwest side of Hopkinsville was ripped off. Large trees at the complex were snapped or uprooted. Vehicles in the parking lot of the complex were damaged by falling trees. A window was broken, and shingles were blown off apartment building roofs. Northwest of the city, a pole barn was destroyed and the roof of a home was damaged. About 4,000 utility customers lost power.				
<b>CHRISTIAN COUNTY --- 2.1 NNW GAINSVILLE [36.90, -87.48], 1.6 N GAINSVILLE [36.89, -87.47]</b>				
	08/04/09 17:55 CST		35K	Tornado (EF0, L: 1.03 mi , W: 40 yd)
	08/04/09 17:57 CST	1	0	Source: NWS Storm Survey
This tornado briefly touched down twice within an area of downburst winds. The first brief touchdown, which was eyewitnessed by a trained spotter, began at the intersection of U.S. Highway 41 and the bypass (Kentucky 1682). This tornado travelled just north of the bypass for about one-half mile. Damage included two fiberglass light poles snapped at the base, several trees snapped, and large limbs broken. An additional brief touchdown occurred just east of the Pennyrile Parkway on the south side of the bypass. Damage included a roof torn off a metal storage building, which was blown north back across the highway. One trained spotter was struck by a flying piece of wood and received a badly bruised shoulder which required hospital treatment. Peak winds were estimated near 80 mph.				
<b>TRIGG COUNTY --- ROCKCASTLE [36.90, -87.97], 0.3 NNE CALEDONIA [36.82, -87.68]</b>				
	08/04/09 17:55 CST		35K	Thunderstorm Wind (MG 61 kt)
	08/04/09 18:10 CST		0	Source: Trained Spotter
A wind gust to 70 mph was measured on the Trigg/Christian County line along Highway 272. Numerous tree limbs and power lines were blown down countywide, along with an occasional tree. One road was blocked by a downed tree. A few other roads were partially blocked. In Cadiz, most of the damage occurred on the south side of town in the form of downed trees and limbs.				
<b>CALDWELL COUNTY --- PRINCETON [37.12, -87.87]</b>				
	08/04/09 18:00 CST		0	Heavy Rain
	08/04/09 19:00 CST		0	Source: Emergency Manager
Several roads were impassable due to water over them.				
<b>HICKMAN COUNTY --- 2.4 NE NEW CYPRESS [36.76, -88.89], CLINTON [36.67, -88.98]</b>				
	08/04/09 18:00 CST		25K	Thunderstorm Wind (EG 52 kt)
	08/04/09 18:15 CST		0	Source: Emergency Manager
Trees were down countywide, including one that landed on Highway 307. Large limbs were down on other sections of Highway 307. A television antenna tower was toppled. The tower landed on an above-ground pool, destroying it.				
<b>CALLOWAY COUNTY --- 2.9 WSW ALMO [36.68, -88.32], 0.6 N MIDWAY [36.56, -88.32]</b>				
	08/04/09 18:10 CST		30K	Thunderstorm Wind (EG 52 kt)
	08/04/09 18:20 CST		0	Source: Emergency Manager

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Countywide, several roads were blocked due to downed trees and power lines. There were scattered power outages.

**CHRISTIAN COUNTY --- HERNDON [36.73, -87.57]**

	08/04/09 18:14 CST		0	Funnel Cloud
	08/04/09 18:18 CST		0	Source: COOP Observer

A funnel cloud was observed for several minutes. The funnel was associated with a gust front.

**CHRISTIAN COUNTY --- HERNDON [36.73, -87.57]**

	08/04/09 18:18 CST		18K	Lightning
	08/04/09 18:18 CST		0	Source: COOP Observer

Lightning struck a barn, which burned to the ground.

**MUHLENBERG COUNTY --- 0.8 NNE BANCROFT [37.18, -87.24]**

	08/04/09 18:18 CST		30K	Thunderstorm Wind (EG 61 kt)
	08/04/09 18:18 CST		0	Source: Emergency Manager

A 16-by-80 foot mobile home was blown over. A woman and her young son were at home at the time. Both people received only minor cuts. The mobile home was a total loss.

**TODD COUNTY --- ELKTON [36.82, -87.15]**

	08/04/09 18:34 CST		6K	Thunderstorm Wind (EG 52 kt)
	08/04/09 18:34 CST		0	Source: Trained Spotter

Two large trees and a few power lines were blown down. One tree blocked Highway 181. A trained spotter estimated wind gusts near 60 mph.

**BALLARD COUNTY --- KEVIL [37.08, -88.90]**

	08/04/09 19:15 CST		0	Heavy Rain
	08/04/09 19:34 CST		0	Source: Emergency Manager

Rainfall of 0.70 inch was measured in 15 minutes.

**MCCRACKEN COUNTY --- PADUCAH [37.08, -88.63], 1.6 ENE PADUCAH [37.09, -88.60], 1.3 ESE ROWLANDTOWN [37.09, -88.61], 0.4 N PADUCAH [37.09, -88.63]**

	08/04/09 20:00 CST		0	Flash Flood (due to Heavy Rain)
	08/04/09 21:00 CST		0	Source: Emergency Manager

Water was over streets on the north side of downtown.

**An organized complex of thunderstorms developed ahead of a cold front as it approached southern Illinois and southeast Missouri during the hottest and most unstable time of day. Very strong instability, coupled with moderately strong mid-level winds, resulted in numerous damaging wind events. Most of the damaging winds were associated with small-scale bows that raced southeast ahead of the main storm complex.**

**(KY-Z015) WEBSTER, (KY-Z016) HOPKINS, (KY-Z017) CHRISTIAN, (KY-Z018) HENDERSON, (KY-Z019) DAVIESS, (KY-Z020) MCLEAN, (KY-Z021) MUHLENBERG, (KY-Z022) TODD**

	08/06/09 01:00 CST		0	Dense Fog
	08/06/09 07:00 CST		0	

Widespread dense fog developed over the Pennyriple region of western Kentucky. Visibility was one-quarter mile or less for several hours. Moist ground from recent heavy rain, along with light winds and mostly clear skies, contributed to the fog. High pressure was centered over the upper Mississippi Valley.

**MUHLENBERG COUNTY --- GREENVILLE [37.20, -87.18]**

	08/10/09 20:15 CST		0	Heavy Rain
	08/10/09 21:00 CST		0	Source: Emergency Manager

Heavy rainfall of 1.28 inches fell in 45 minutes.

**A large cluster of thunderstorms sagged southeast into a region of relatively steep low level lapse rates where strong solar heating occurred. Moderately strong instability and ample low level moisture contributed to storm maintenance. A few of the stronger storms produced strong outflow winds. Heavy rain occurred due to the size and speed of the complex.**

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<b>HOPKINS COUNTY --- 0.7 N MADISONVILLE [37.34, -87.50], 0.8 S BARNESLEY [37.24, -87.50]</b>				
	08/18/09 20:35 CST		0	Heavy Rain
	08/18/09 21:30 CST		0	Source: Law Enforcement

Up to a foot of water was over U.S. Highway 41 in several places, including spots in Madisonville and near Earlington. Water was over Highway 70 six miles west of Madisonville.

**Thunderstorms developed ahead of a cold front as it approached southern Illinois and southeast Missouri from the northwest. Some of these storms produced torrential rain.**

### MISSOURI, Southeast

<b>(MO-Z076) PERRY, (MO-Z087) CAPE GIRARDEAU, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID</b>				
	08/02/09 02:00 CST		0	Dense Fog
	08/02/09 06:00 CST		0	

Widespread dense fog developed in response to clear skies, light winds, and moist ground from recent rain. The dense fog covered the counties bordering the Mississippi River in far southeast Missouri. High pressure was centered over the southern Plains, with a ridge extending northeast to the upper Mississippi Valley.

<b>CAPE GIRARDEAU COUNTY --- 1.8 NW CAPE GIRARDEAU [37.32, -89.55]</b>				
	08/04/09 16:40 CST		0	Heavy Rain
	08/04/09 16:58 CST		0	Source: Trained Spotter

Rainfall of 1.20 inches was measured in 15 minutes. Several street intersections had standing water.

<b>CAPE GIRARDEAU COUNTY --- 1.0 N CAPE GIRARDEAU [37.31, -89.53], CAPE GIRARDEAU [37.30, -89.53]</b>				
	08/04/09 16:50 CST		60K	Thunderstorm Wind (EG 52 kt)
	08/04/09 16:50 CST		0	Source: Trained Spotter

Numerous trees and power lines were blown down, blocking roads and damaging houses. A trained spotter estimated gusts around 60 mph. Power outages affected more than 5,000 customers in the county.

<b>STODDARD COUNTY --- ADVANCE [37.10, -89.92]</b>				
	08/04/09 16:50 CST		50K	Thunderstorm Wind (EG 56 kt)
	08/04/09 16:50 CST		0	Source: Trained Spotter

A tractor-trailer rig loaded with freight was blown over. A 16-inch diameter tree was blown down on a mobile home. An 8-inch diameter tree was blown down on a pickup truck. Numerous tree limbs were blown down, along with small trees. Shingles were blown off roofs.

<b>CAPE GIRARDEAU COUNTY --- 2.5 NW CAPE GIRARDEAU [37.33, -89.56], 2.0 NE CAPE GIRARDEAU [37.32, -89.51], 0.9 S CAPE GIRARDEAU [37.29, -89.53], 1.4 NNE MARQUETTE [37.29, -89.56]</b>				
	08/04/09 18:50 CST		0	Flash Flood (due to Heavy Rain)
	08/04/09 21:30 CST		0	Source: Broadcast Media

The southern half of the city experienced serious flooding. County officials activated swift water rescue teams. Authorities assisted a handful of people whose vehicles were stranded in high water. Various degrees of flooding were reported throughout Cape Girardeau. Numerous main and secondary roads throughout the downtown area were covered with standing water. A section of a main street was closed in the city.

<b>SCOTT COUNTY --- SCOTT CITY [37.25, -89.52], 1.2 WSW ILLMO [37.21, -89.52]</b>				
	08/04/09 18:50 CST		5K	Thunderstorm Wind (EG 50 kt)
	08/04/09 18:50 CST		0	Source: Newspaper

A few trees were blown down, along with some tree limbs and power lines.

<b>SCOTT COUNTY --- SCOTT CITY [37.25, -89.52], BENTON [37.10, -89.57]</b>				
	08/04/09 19:00 CST		10K	Heavy Rain
	08/04/09 21:00 CST		0	Source: Newspaper

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A section of County Road 219 was impassable because of erosion from the rainfall. The road reopened the following day. A section of the main street in Scott City was flooded and impassable for about an hour.				

**MISSISSIPPI COUNTY --- CHARLESTON [36.92, -89.33]**

08/04/09 19:30 CST	0	Heavy Rain
08/04/09 21:00 CST	0	Source: Law Enforcement

Water was over several roadways throughout the community.

**WAYNE COUNTY --- GREENVILLE [37.13, -90.47], SHOOK [37.05, -90.32]**

08/04/09 19:52 CST	0	Hail (1.75 in)
08/04/09 20:05 CST	0	Source: Law Enforcement

A multi-cell cluster of thunderstorms produced large hail over parts of central and eastern Wayne County. Golf-ball size hail was reported in Greenville. Quarter-size hail fell in Shook.

**WAYNE COUNTY --- 1.2 WSW LAKE WAPPAPELLO [36.94, -90.34]**

08/04/09 20:58 CST	0	Hail (1.00 in)
08/04/09 20:58 CST	0	Source: Law Enforcement

The one-inch hail fell over Lake Wappapello State Park.

**CARTER COUNTY --- ELLSINORE [36.93, -90.75]**

08/04/09 21:40 CST	0	Hail (0.75 in)
08/04/09 21:40 CST	0	Source: Trained Spotter

**BUTLER COUNTY --- 7.0 NW POPLAR BLUFF [36.82, -90.49]**

08/04/09 21:41 CST	0	Thunderstorm Wind (MG 50 kt)
08/04/09 21:41 CST	0	Source: Trained Spotter

A wind gust to 58 mph was measured by a spotter.

**BUTLER COUNTY --- POPLAR BLUFF [36.75, -90.40]**

08/04/09 22:00 CST	10K	Lightning
08/04/09 22:00 CST	0	Source: Newspaper

Lightning hit an electrical substation, knocking out power to 1,100 customers in downtown Poplar Bluff.

**RIPLEY COUNTY --- 6.0 E DONIPHAN [36.62, -90.71]**

08/04/09 22:28 CST	0	Hail (1.00 in)
08/04/09 22:28 CST	0	Source: Trained Spotter

An organized complex of thunderstorms developed ahead of a cold front as it approached southern Illinois and southeast Missouri during the hottest and most unstable time of day. Very strong instability, coupled with moderately strong mid-level winds, resulted in a few damaging wind events with the initial complex that affected places east of a Dexter to Marble Hill line. In the wake of the initial complex, multi-cell clusters rapidly developed on the upshear side of the cold pool left by the first complex. These clusters produced several large hail events, along with isolated damaging wind.