

Storm Data and Unusual Weather Phenomena - July 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ILLINOIS, South				
WABASH COUNTY --- MT CARMEL [38.42, -87.77]				
	07/08/09 17:05 CST		0	Heavy Rain
	07/08/09 18:05 CST		0	Source: Trained Spotter
A total of 1.74 inches of rain fell in less than an hour. Ditches were full. Roads on the west side of town were covered by water.				
Slow-moving thunderstorms developed in a weak wind flow regime. These storms produced locally heavy rain.				
UNION COUNTY --- ANNA [37.47, -89.25]				
	07/11/09 06:00 CST		0	Heavy Rain
	07/11/09 08:02 CST		0	Source: COOP Observer
Total rainfall of 2.41 inches was reported by a co-operative observer.				
WILLIAMSON COUNTY --- HURST [37.83, -89.15], 2.0 E MARION [37.73, -88.89]				
	07/11/09 06:00 CST		0	Heavy Rain
	07/11/09 12:00 CST		0	Source: Emergency Manager
Heavy rainfall of 2.60 inches was reported in about five hours at Hurst. Elsewhere in the county, there was street flooding and even some road closures.				
JACKSON COUNTY --- 0.9 ENE CARBONDALE [37.73, -89.21], 0.9 NE CARBONDALE [37.73, -89.21], 0.6 E CARBONDALE [37.72, -89.21], 0.5 W CARBONDALE [37.72, -89.23], 1.1 NNW CARBONDALE [37.73, -89.23], 1.4 WNW DE SOTO [37.83, -89.25], 1.4 NE DE SOTO [37.83, -89.21]				
	07/11/09 08:18 CST		0	Flash Flood (due to Heavy Rain)
	07/11/09 12:15 CST		0	Source: Trained Spotter
Route 13, the main east to west thoroughfare through Carbondale, was under several feet of water at a downtown intersection. A co-operative observer reported 4.5 inches of rain over a three-hour period. Ditches were overflowing between 2.5 and 3 feet deep onto sidewalks. In DeSoto, a spotter measured 3.95 inches of rain during the morning.				
JEFFERSON COUNTY --- WALTONVILLE [38.22, -89.05], WOODLAWN [38.33, -89.03], 0.9 SSE DRIVERS [38.32, -88.99], 1.9 ESE WALTONVILLE [38.21, -89.02]				
	07/11/09 08:20 CST		0	Flash Flood (due to Heavy Rain)
	07/11/09 11:00 CST		0	Source: Law Enforcement
Highway flooding was reported along Highway 148 near Waltonville and along Highway 15 near Woodlawn.				
PERRY COUNTY --- 1.9 SE DU QUOIN [38.00, -89.21], 2.0 SW DU QUOIN [38.00, -89.26], 0.5 W ST JOHNS [38.03, -89.26], 0.7 ENE DU QUOIN [38.03, -89.22]				
	07/11/09 11:44 CST		10K	Flash Flood (due to Heavy Rain)
	07/11/09 13:00 CST		0	Source: Trained Spotter
Significant street flooding was reported throughout the community. Water was knee-deep in the parking lot of a shopping center. Water was up to the front door of a home in a traditionally dry subdivision. Water got into some basements on a city street. The water plant in DuQuoin measured a total of 3.8 inches. Water was shooting up through some manhole covers. The DuQuoin city pool was closed after heavy rain flooded the pool's pumphouse. A pump motor was damaged.				
PERRY COUNTY --- PINCKNEYVILLE [38.08, -89.38], 0.5 W PINCKNEYVILLE [38.08, -89.39], 0.6 WSW PINCKNEYVILLE [38.08, -89.39], 0.3 S PINCKNEYVILLE [38.08, -89.38]				
	07/11/09 19:55 CST		0	Flash Flood (due to Heavy Rain)
	07/11/09 21:00 CST		0	Source: Law Enforcement
An intersection along Highway 154 was impassable due to flash flooding.				
A large and slow-moving complex of thunderstorms developed in a southerly flow of moist and unstable air ahead of a cold front over central Missouri and central Illinois. The storms produced torrential rain.				
FRANKLIN COUNTY --- 0.7 N WHITTINGTON [38.09, -88.90]				
	07/12/09 14:00 CST		0	Heavy Rain
	07/12/09 14:13 CST		0	Source: Trained Spotter

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A spotter reported 0.74 inches of rainfall were received in ten minutes. Water was ponding on Route 37.				
WILLIAMSON COUNTY --- MARION [37.73, -88.93]				
	07/12/09 14:23 CST		10K	Thunderstorm Wind (EG 50 kt)
	07/12/09 14:23 CST		0	Source: Trained Spotter
Trees were blown down on the Veterans Administration Hospital campus and elsewhere in the city.				
Moderate to strong instability developed near a stalled front across the Lower Ohio Valley. Despite seasonably weak winds aloft, isolated occurrences of wind damage and heavy rain were reported.				
JACKSON COUNTY --- 1.8 WNW MT CARBON [37.76, -89.36], 2.7 W MURPHYSBORO [37.77, -89.38], 2.8 W MURPHYSBORO [37.76, -89.38], 2.0 WNW MT CARBON [37.76, -89.37]				
	07/15/09 06:00 CST		0	Flood (due to Heavy Rain)
	07/20/09 18:00 CST		0	Source: River/Stream Gage
Minor flooding occurred on the Big Muddy River. At the Murphysboro gage, the river crested at 24.63 feet on the 17th. Flood stage is 22 feet. Some low-lying fields and parklands in the flood plain were flooded.				
Two slow-moving cold fronts affected southern Illinois. The first front on the 11th and 12th caused torrential downpours and training storms. The other slow-moving front brought scattered thunderstorms from the 15th to the 17th. The heavy rainfall sent the Big Muddy River above flood stage.				
UNION COUNTY --- COBDEN [37.53, -89.25]				
	07/15/09 17:15 CST		0	Heavy Rain
	07/15/09 18:00 CST		0	Source: Newspaper
Lots of standing water was observed in town. Water was flowing over the intersection of old U.S. Route 51 and a side street. Flooding of this intersection was seen as a rare occurrence by longtime residents of the community. A co-operative observer measured 3.28 inches of rain over a two-day period, ending with the storms.				
UNION COUNTY --- ANNA [37.47, -89.25]				
	07/15/09 17:20 CST		10K	Thunderstorm Wind (EG 50 kt)
	07/15/09 17:20 CST		0	Source: Newspaper
A new barn that was under construction in Anna City Park was blown down. The new barn was to replace a structure which sustained major damage in the January winter storm.				
UNION COUNTY --- COBDEN [37.53, -89.25]				
	07/15/09 17:30 CST		1K	Lightning
	07/15/09 17:30 CST		0	Source: Newspaper
Lightning struck a tall white oak tree and may have started a fire at a telephone company switching building.				
Multicell clusters of thunderstorms intensified while spreading east-southeast in advance of a remnant upper level disturbance. A belt of 30 to 40 knot mid-level winds and strong instability supported the storms.				
WAYNE COUNTY --- FAIRFIELD [38.38, -88.37]				
	07/16/09 22:30 CST		8K	Thunderstorm Wind (EG 52 kt)
	07/16/09 22:30 CST		0	Source: Emergency Manager
Several trees were blown down. A few of the trees were uprooted.				
A lone supercell tracked southeast from south central Illinois across southeast Illinois. This storm thrived along a west-northwest to east-southeast oriented weak warm front. An approaching mid-level trough axis provided support for the storm.				
POPE COUNTY --- BAY CITY [37.25, -88.50], 0.7 SSW BAY CITY [37.24, -88.51], 0.7 SE BAY CITY [37.24, -88.49], 0.4 E BAY CITY [37.25, -88.49]				
	07/28/09 10:25 CST		2K	Flash Flood (due to Heavy Rain)
	07/28/09 11:45 CST		0	Source: Public
A driveway was washed out. Extensive flooding of low-lying areas was reported.				
PERRY COUNTY --- PINCKNEYVILLE [38.08, -89.38]				

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	07/28/09 13:00 CST		0	Heavy Rain
	07/28/09 14:10 CST		0	Source: Trained Spotter

Standing water was on many streets in the community. Ditches were overflowing. A spotter measured 2.72 inches of rain in just one hour.

A warm front returned north across the region, causing thunderstorms with torrential downpours.

WABASH COUNTY --- MT CARMEL [38.42, -87.77]

	07/30/09 11:00 CST		0	Heavy Rain
	07/30/09 12:00 CST		0	Source: Trained Spotter

Flooding of side streets was reported.

JEFFERSON COUNTY --- MT VERNON [38.32, -88.90]

	07/30/09 12:50 CST		0	Heavy Rain
	07/30/09 13:50 CST		0	Source: Trained Spotter

Street flooding was reported in areas that frequently flood in heavy rain.

SALINE COUNTY --- ELDORADO [37.82, -88.43]

	07/30/09 19:00 CST		0	Heavy Rain
	07/30/09 20:00 CST		0	Source: Emergency Manager

Water was over two main roads, including Highway 142.

Thunderstorms with torrential rain trained along a stationary front over the Lower Ohio Valley. A shortwave trough tracked eastward from Arkansas and phased with a second shortwave that tracked east from the upper Mississippi River Valley. These shortwaves provided uplift for sustained intense convection.

INDIANA, Southwest

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

	07/16/09 23:15 CST		0	Heavy Rain
	07/17/09 00:15 CST		0	Source: Trained Spotter

Street flooding occurred as 1.40 inches of rain fell in less than an hour.

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

	07/16/09 23:25 CST		10K	Thunderstorm Wind (EG 50 kt)
	07/16/09 23:25 CST		0	Source: Trained Spotter

Several large tree limbs and a few small trees were blown down.

A complex of thunderstorms evolved from a lone supercell that tracked southeast into southeast Illinois. The complex of storms thrived along a west-northwest to east-southeast oriented weak warm front over southwest Indiana and southeast Illinois. An approaching mid-level trough axis provided support for the storms.

SPENCER COUNTY --- 1.6 W SANTA CLAUS [38.12, -86.93], 3.2 WNW DALE [38.19, -87.04], 2.1 NNW ST MEINRAD [38.20, -86.83], 2.0 NW FULDA [38.14, -86.86], 0.9 SE SANTA CLAUS [38.11, -86.89]

	07/30/09 20:00 CST		0	Flash Flood (due to Heavy Rain)
	07/30/09 23:30 CST		0	Source: Emergency Manager

Numerous roads were underwater in the north half of the county, including Dale, St. Meinrad, and Santa Claus. Two water rescues were conducted. Spotters reported nearly three inches of rain had fallen before flash flooding even began.

WARRICK COUNTY --- FOLSOMVILLE [38.13, -87.17], 0.9 SE TENNYSON [38.07, -87.11], 0.8 NNE SELVIN [38.21, -87.09], 1.7 SE SCALESVILLE [38.20, -87.18]

	07/30/09 21:50 CST		0	Flash Flood (due to Heavy Rain)
	07/30/09 23:30 CST		0	Source: Emergency Manager

Some roads were flooded and impassable in northeast parts of the county.

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Thunderstorms with torrential rain trained along a stationary front over the Lower Ohio Valley. A shortwave trough tracked eastward from Arkansas and phased with a second shortwave that tracked east from the upper Mississippi River Valley. These shortwaves provided uplift for sustained intense convection.

KENTUCKY, Southwest

CARLISLE COUNTY --- 1.0 SSE BERKELEY [36.79, -89.09], 2.0 NE BERKELEY [36.82, -89.07]

07/04/09 16:20 CST	20K	Thunderstorm Wind (MG 61 kt)
07/04/09 16:35 CST	0	Source: NWS Storm Survey

A camper was blown over, and a carport was blown into the street. A parked car was damaged by the wind-blown carport. Wind gusts were measured up to 70 mph. Kentucky Highway 123 was closed near the 4 mile marker due to downed power lines and debris on the road. Several power poles were down.

MARSHALL COUNTY --- BENTON [36.87, -88.35]

07/04/09 16:30 CST	0	Heavy Rain
07/04/09 17:30 CST	0	Source: Emergency Manager

Rainfall of 1.10 inches was measured in 40 minutes.

GRAVES COUNTY --- MAYFIELD [36.73, -88.63], SEDALIA [36.65, -88.60]

07/04/09 16:55 CST	60K	Thunderstorm Wind (EG 61 kt)
07/04/09 17:10 CST	0	Source: Newspaper

Damaging winds struck the community of Sedalia, where the post office was damaged. Windows were broken, and there was damage to the door and ceiling tiles. Electrical lines were blown down in Mayfield. Numerous trees were blown down, including some that landed on houses.

MCCRACKEN COUNTY --- 0.2 NE TYLER [37.05, -88.58], 2.9 ENE CAMELIA [37.04, -88.73]

07/04/09 17:02 CST	0	Heavy Rain
07/04/09 17:32 CST	0	Source: Emergency Manager

Street flooding was reported on the south side of Paducah and near U.S. Highway 62 west of town.

CALLOWAY COUNTY --- 1.4 SW STELLA [36.64, -88.40], MURRAY [36.62, -88.32]

07/04/09 17:20 CST	70K	Thunderstorm Wind (MG 61 kt)
07/04/09 17:27 CST	0	Source: Emergency Manager

A swath of downed tree limbs extended from about 5 miles west of Murray into the city of Murray. Many large limbs were down on Highway 783 just south of Stella, and aluminum trim was blown off a house. Six-inch diameter tree limbs were down a mile west of Murray, and a large tree was down across power lines. Wind gusts were measured up to 70 mph in Murray, where a roof was blown off a building. A number of trees were down in Murray. There were over 30 reports of trees landing across roads in Calloway County.

CALLOWAY COUNTY --- DEXTER [36.75, -88.28], 1.0 ESE DEXTER [36.74, -88.26]

07/04/09 17:20 CST	15K	Thunderstorm Wind (EG 52 kt)
07/04/09 17:20 CST	0	Source: Public

Numerous trees and power lines were blown down in the Dexter area.

CALLOWAY COUNTY --- MURRAY [36.62, -88.32]

07/04/09 17:20 CST	0	Heavy Rain
07/04/09 17:35 CST	0	Source: Mesonet

A total of 1.07 inches of rain was measured in 15 minutes at a mesonet site.

CALLOWAY COUNTY --- 3.0 NE ALMO [36.73, -88.23], HICO [36.72, -88.22]

07/04/09 17:29 CST	3K	Tornado (EF0, L: 0.98 mi , W: 50 yd)
07/04/09 17:31 CST	10K	Source: NWS Storm Survey

This weak tornado occurred in rural farm country and caused little damage. Several tree limbs and tree tops were blown down. Some field corn was blown over. Peak winds were estimated near 75 mph.

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TRIGG COUNTY --- 4.0 SW GOLDEN POND [36.74, -88.07], 3.5 SW GOLDEN POND [36.74, -88.06]				
	07/04/09 17:39 CST		3K	Tornado (EF0, L: 0.50 mi , W: 50 yd)
	07/04/09 17:40 CST		0	Source: NWS Storm Survey
This brief, weak tornado touched down in the Land Between The Lakes National Recreation Area. Several tree limbs and tree tops were downed. The peak wind was estimated near 70 mph.				
TRIGG COUNTY --- 1.9 NW LAUREL FURNACE [36.72, -88.00], 1.4 SSW MAPLE GROVE [36.75, -87.89]				
	07/04/09 17:45 CST		0	Thunderstorm Wind (EG 52 kt)
	07/04/09 17:50 CST		0	Source: NWS Storm Survey
Tree limbs were downed around Cumberland Shores on the east shore of Kentucky Lake, in Wranglers Campground in the Land Between The Lakes National Recreation Area, and along Highway 807 two miles east of Donaldson.				
TRIGG COUNTY --- 8.0 W CADIZ [36.87, -87.96]				
	07/04/09 17:45 CST		0	Funnel Cloud
	07/04/09 17:45 CST		0	Source: Trained Spotter
TRIGG COUNTY --- 1.5 WSW MAGGIE [36.72, -87.77]				
	07/04/09 18:08 CST		10K	Thunderstorm Wind (EG 52 kt)
	07/04/09 18:08 CST		0	Source: Trained Spotter
Trees and power lines were blown down on Highway 164 on the northwest edge of the Fort Campbell military reservation.				
CHRISTIAN COUNTY --- 4.0 W HERNDON [36.73, -87.64], HERNDON [36.73, -87.57]				
	07/04/09 18:10 CST		10K	Thunderstorm Wind (EG 52 kt)
	07/04/09 18:12 CST		10K	Source: NWS Employee
A metal storage building was blown across a road about four miles west of Herndon. An off-duty meteorologist estimated 60 mph wind gusts in Herndon. Northeast of Lafayette along Highway 107, about a mile stretch of corn on either side of the road was nearly flattened.				
CHRISTIAN COUNTY --- 1.3 SE HERNDON [36.72, -87.55], 1.8 SE HERNDON [36.71, -87.55]				
	07/04/09 18:13 CST		10K	Tornado (EF1, L: 0.50 mi , W: 110 yd)
	07/04/09 18:14 CST		0	Source: NWS Storm Survey
A few dozen trees were uprooted, and numerous large limbs were broken. Minor shingle damage was noted on one home. A small area of corn was flattened. Peak winds were estimated at 95 mph.				
Western Kentucky was located in the destabilizing warm sector of a surface low across northern Missouri. Mixed layer CAPE values at or above 1000 j/kg aided thunderstorm intensification as large scale lift was maintained ahead of the surface low. Deep-layer wind shear on the order of 40 to 50 knots contributed to persistent rotating updrafts. A few tornadoes occurred with rotating storms that crossed a warm front draped across southern parts of western Kentucky.				
MCCRACKEN COUNTY --- (PAH)BARKLEY ARPT PA [37.07, -88.77]				
	07/11/09 09:00 CST		10K	Lightning
	07/11/09 09:00 CST		0	Source: Other Federal Agency
A lightning strike damaged the taxiway at Barkley Regional Airport. The lightning left a small pit or pock mark in the pavement, and pieces of asphalt were scattered around.				
Thunderstorms with intense lightning and torrential rain developed in a southerly flow of moist and unstable air ahead of a cold front over central Missouri and central Illinois.				
DAVIESS COUNTY --- OWENSBORO [37.77, -87.12]				
	07/12/09 16:19 CST		20K	Thunderstorm Wind (EG 52 kt)
	07/12/09 16:19 CST		0	Source: Trained Spotter
Part of a warehouse roof was blown off.				
CHRISTIAN COUNTY --- HOPKINSVILLE [36.85, -87.48]				
	07/12/09 17:20 CST		0	Heavy Rain
	07/12/09 18:20 CST		0	Source: Law Enforcement

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Street flooding was reported.

Moderate to strong instability developed near a stalled front across the Lower Ohio Valley. Despite seasonably weak winds aloft, isolated occurrences of wind damage and heavy rain were reported.

FULTON COUNTY --- HICKMAN [36.57, -89.18], CAYCE [36.55, -89.03]

07/15/09 17:38 CST	80K	Thunderstorm Wind (EG 70 kt)
07/15/09 17:46 CST	10K	Source: NWS Storm Survey

A microburst struck the town of Hickman, where the roof was blown off a restaurant. Rainfall then caused extensive damage to parts of the restaurant. Two customers were injured while rushing to escape (indirect injuries). Debris from the restaurant damaged a second home immediately east of the business. A block to the west, a carport roof was blown off. The wall of a small garage was blown inward a couple of feet. Numerous tree limbs were broken off. This microburst contained estimated peak winds of 80 mph. The damage area was about one-quarter mile long and 50 yards wide. Elsewhere in the county, three steel buildings were damaged. There was significant wall damage on one building. Another building had significant damage to the doors. Numerous large limbs were down across the county. There was minor crop damage to area corn fields.

HOPKINS COUNTY --- 1.1 W EAST DIAMOND [37.33, -87.47], 1.4 WSW EAST DIAMOND [37.32, -87.47], 1.0 SE MADISONVILLE [37.32, -87.48], 0.9 E MADISONVILLE [37.33, -87.48]

07/15/09 19:00 CST	0	Flash Flood (due to Heavy Rain)
07/15/09 19:45 CST	0	Source: Law Enforcement

At least six roads were flooded in town, including main streets around the mall area.

CHRISTIAN COUNTY --- HOPKINSVILLE [36.85, -87.48]

07/15/09 20:00 CST	10K	Thunderstorm Wind (EG 52 kt)
07/15/09 20:00 CST	0	Source: Emergency Manager

Several trees and power lines were down in the city.

Multicell clusters of thunderstorms intensified while spreading east-southeast in advance of a remnant upper level disturbance. A belt of 30 to 40 knot mid-level winds and strong instability supported the evolution of a bow echo that produced isolated wind damage.

HENDERSON COUNTY --- 0.9 WNW HENDERSON [37.84, -87.59], 1.1 NNE OHIORIVER ORDINANCE [37.82, -87.61], 1.2 SSE ZION [37.80, -87.47], 1.9 WSW BASKETT [37.86, -87.50]

07/30/09 19:29 CST	0	Flash Flood (due to Heavy Rain)
07/30/09 21:30 CST	0	Source: Trained Spotter

Significant street flooding occurred in downtown Henderson. Approximately a foot of water was over U.S. Highway 41 / 60. County roads near Graham Hill and Zion were flooded. Additional flooding occurred at an intersection on U.S. Highway 60 East between Henderson and Baskett.

Thunderstorms with torrential rain trained along a stationary front over the Lower Ohio Valley. A shortwave trough tracked eastward from Arkansas and phased with a second shortwave that tracked east from the upper Mississippi River Valley. These shortwaves provided uplift for sustained intense convection.

MISSOURI, Southeast

STODDARD COUNTY --- DEXTER [36.80, -89.95]

07/04/09 15:35 CST	70K	Thunderstorm Wind (EG 56 kt)
07/04/09 15:36 CST	0	Source: NWS Storm Survey

Just north of Highway 60 in the northwest part of town, a fence was damaged, and shingles were blown off the roof of a nearby business. Numerous tree limbs were down across town. About a half dozen utility poles were broken. Several tree limbs up to six inches in diameter were broken across the county.

MISSISSIPPI COUNTY --- CHARLESTON [36.92, -89.33], SAMOS [36.87, -89.27]

07/04/09 16:08 CST	0.10M	Thunderstorm Wind (EG 65 kt)
07/04/09 16:15 CST	0	Source: NWS Storm Survey

In Charleston, numerous tree limbs were down, especially north of Highway 62. The historical society building suffered roof damage and a broken chimney. A few houses had minor roof damage. Trees were blown down. Power outages occurred. A bowling alley just south of Charleston on Highway 105 suffered window damage. A nearby church steeple was toppled. In Samos, a large pole barn was partially destroyed along Highway J.

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Southeast Missouri was located in the destabilizing warm sector of a surface low across northern Missouri. Mixed layer CAPE values at or above 1000 j/kg aided thunderstorm intensification as large scale lift was maintained ahead of the surface low. Deep-layer wind shear on the order of 40 to 50 knots contributed to persistent rotating updrafts.

CAPE GIRARDEAU COUNTY --- 1.6 NW CAPE GIRARDEAU [37.32, -89.55]

07/11/09 20:17 CST	10K	Lightning
07/11/09 20:17 CST	0	Source: Newspaper

Lightning struck the building that houses control equipment at an electrical substation. Power was interrupted for about 3,600 customers for two to three hours.

Thunderstorms developed in a southerly flow of moist and unstable air in advance of a cold front over south central Missouri.

CAPE GIRARDEAU COUNTY --- JACKSON [37.38, -89.67]

07/15/09 16:45 CST	10K	Thunderstorm Wind (EG 52 kt)
07/15/09 16:45 CST	0	Source: Newspaper

Several trees were blown down, including a very large tree that took out a utility pole. Power was disrupted to 620 electric customers.

NEW MADRID COUNTY --- 0.6 ENE RISTINE [36.65, -89.54], NEW MADRID [36.60, -89.53]

07/15/09 17:45 CST	75K	Thunderstorm Wind (EG 61 kt)
07/15/09 17:45 CST	0	Source: Broadcast Media

In New Madrid, extensive damage occurred at the historical museum. The original part of the museum lost most of the roof, though the wood decking did not appear to be damaged. Part of the upper part of the building's south wall was damaged. Water leaked into the building, collapsing the suspended ceiling panels and damaging light fixtures and insulation. Inside, water damaged the carpet, exhibit boards, brochures, chairs, and cedar boards. A couple miles north of New Madrid, a semi was overturned on Interstate 55 at mile-marker 50. Several road signs were blown over.

Multicell clusters of thunderstorms intensified while spreading east-southeast in advance of a remnant upper level disturbance. A belt of 30 to 40 knot mid-level winds and strong instability supported the evolution of these clusters into a bow echo that produced isolated wind damage.

BUTLER COUNTY --- 6.0 SW FISK [36.72, -90.30]

07/30/09 18:00 CST	0	Funnel Cloud
07/30/09 18:20 CST	0	Source: Trained Spotter

A trained spotter observed and photographed a funnel cloud extending from a small wall cloud of a shower. The spotter watched it dissipate and reform over a 20-minute period. At times, several small vortices could be seen circling the main funnel.

An area of showers occurring northwest of a surface low pressure center over Tennessee produced a funnel cloud. The funnel cloud was unusual in that it was not associated with a thunderstorm.

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 A photograph showing a funnel cloud, a narrow column of air extending from a dark, stormy cloud base down towards the ground. The funnel is centered in the upper half of the frame. Below the funnel, a dense line of trees is visible on the horizon. The foreground is a lush green field, likely a cornfield. Several power lines run diagonally across the top portion of the image. The sky is overcast and grey.				

Photo of a funnel cloud taken by Bryan Schmid. The funnel persisted for about 20 minutes and exhibited weak rotation.