

Storm Data and Unusual Weather Phenomena - June 2008

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

PERRY COUNTY --- 3.5 S RICE [38.15, -89.38]

06/04/08 03:10 CST	0	Hail (0.75 in)
06/04/08 03:10 CST	0	Source: Trained Spotter

The hail was observed at Route 127 and Finch Road.

PERRY COUNTY --- DU QUOIN [38.02, -89.23]

06/04/08 03:30 CST	25K	Thunderstorm Wind (EG 50 kt)
06/04/08 03:30 CST	0	Source: Newspaper

Many trees and limbs were blown down, including some that landed on roads.

Isolated severe thunderstorms were reported. The severe storms formed in a strong low level southwest wind flow of warm and unstable air.

WAYNE COUNTY --- 1.0 E WAYNE CITY [38.35, -88.56]

06/09/08 12:33 CST	0	Hail (0.75 in)
06/09/08 12:33 CST	0	Source: Trained Spotter

Penny size hail was reported between Wayne City and Sims.

JEFFERSON COUNTY --- OPDYKE [38.25, -88.78], BELLE RIVE [38.23, -88.73]

06/09/08 12:50 CST	0	Hail (1.75 in)
06/09/08 13:00 CST	10K	Source: Broadcast Media

Reports from the SHAVE (Severe Hazards Analysis and Verification Experiment) project and a local television station indicated hail up to golf ball size occurred. The hail damaged wheat crops.

WAYNE COUNTY --- KEENES [38.33, -88.63], SIMS [38.37, -88.53]

06/09/08 13:05 CST	0	Hail (1.00 in)
06/09/08 13:15 CST	0	Source: Trained Spotter

Penny to quarter size hail was reported from Keenes, through the Wayne City area, to Sims. The largest hail, which was quarter size, occurred in Wayne City.

JEFFERSON COUNTY --- OPDYKE [38.25, -88.78]

06/09/08 13:15 CST	0	Hail (0.88 in)
06/09/08 13:25 CST	0	Source: Public

The second of three waves of hail in the Opdyke area produced nickel size hail.

JEFFERSON COUNTY --- BLUFORD [38.33, -88.75], BELLE RIVE [38.23, -88.73]

06/09/08 13:46 CST	0	Hail (1.00 in)
06/09/08 13:52 CST	0	Source: Public

The third of three hailstorms in this local area produced hailstones up to quarter size. All three events occurred within an hour. Multiple reports of this hail were obtained by the Severe Hazards Analysis and Verification Experiment (SHAVE).

WILLIAMSON COUNTY --- CARTERVILLE [37.75, -89.08]

06/09/08 14:22 CST	6K	Thunderstorm Wind (EG 50 kt)
06/09/08 14:22 CST	0	Source: Emergency Manager

An electrical pole was down across an auto dealership. A one-foot diameter tree was blown down.

FRANKLIN COUNTY --- WEST FRANKFORT [37.90, -88.92], 3.0 E WEST FRANKFORT [37.90, -88.86]

06/09/08 14:39 CST	0	Hail (1.25 in)
06/09/08 14:48 CST	0	Source: Emergency Manager

Quarter to half dollar size hail was reported in West Frankfort. Penny size hail occurred a few miles east of town.

Storm Data and Unusual Weather Phenomena - June 2008

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
FRANKLIN COUNTY --- 5.0 E WEST FRANKFORT [37.90, -88.83], THOMPSONVILLE [37.92, -88.77]				
	06/09/08 15:10 CST		0	Hail (1.00 in)
	06/09/08 15:12 CST		0	Source: Emergency Manager
Nickel to quarter size hail was reported several miles east of West Frankfort and at Thompsonville.				
HAMILTON COUNTY --- MC LEANSBORO [38.10, -88.53]				
	06/09/08 15:22 CST		0	Hail (0.75 in)
	06/09/08 15:22 CST		0	Source: Broadcast Media
SALINE COUNTY --- CARRIERS MILLS [37.68, -88.65]				
	06/09/08 15:55 CST		20K	Thunderstorm Wind (EG 52 kt)
	06/09/08 15:55 CST		0	Source: Trained Spotter
Trees and power lines were down throughout the community.				
JOHNSON COUNTY --- VIENNA [37.42, -88.90]				
	06/09/08 16:15 CST		10K	Thunderstorm Wind (EG 50 kt)
	06/09/08 16:15 CST		0	Source: Broadcast Media
Small trees were uprooted. Branches on top of some trees were snapped. The tree damage occurred throughout the rural Vienna area.				
HAMILTON COUNTY --- 2.3 WNW BROUGHTON [37.94, -88.49]				
	06/09/08 17:51 CST		2K	Thunderstorm Wind (EG 50 kt)
	06/09/08 17:51 CST		0	Source: Law Enforcement
A couple of trees were blown down.				
FRANKLIN COUNTY --- 2.8 N BENTON [38.04, -88.92]				
	06/09/08 18:36 CST		0	Funnel Cloud
	06/09/08 18:36 CST		0	Source: Emergency Manager
A brief occurrence of a funnel cloud was reported. The funnel was seen at a rest stop along Interstate 57.				
HAMILTON COUNTY --- 0.9 SW DALE [37.99, -88.49]				
	06/09/08 19:46 CST		0	Funnel Cloud
	06/09/08 19:46 CST		0	Source: Emergency Manager
The funnel cloud was reported along State Route 142.				
SALINE COUNTY --- 2.1 S HARRISBURG ARPT [37.79, -88.55]				
	06/09/08 19:58 CST		0	Hail (0.75 in)
	06/09/08 19:58 CST		0	Source: Trained Spotter
<p>A weak cold front moved southeast into the Lower Ohio Valley during the night. This front, combined with an approaching upper level disturbance over the Plains, triggered numerous thunderstorms during the afternoon and evening hours. Thunderstorms began developing during the early afternoon as temperatures climbed into the lower 90's and the atmosphere became quite unstable. The initial storms that developed along a pre-frontal boundary over southern Illinois exhibited strong rotation, particularly a storm northwest of Carbondale and another storm southeast of Mount Vernon. No tornadoes were reported. The initial storms produced large amounts of hail, ranging from dime to quarter size. There was an isolated report of golf ball size hail. As the severe weather event unfolded, reports of strong winds outnumbered hail reports during the evening hours. The storms decreased in intensity as the atmosphere cooled later in the evening.</p>				
JEFFERSON COUNTY --- 2.0 W MT VERNON [38.32, -88.94]				
	06/15/08 17:25 CST		0	Hail (0.88 in)
	06/15/08 17:25 CST		0	Source: Trained Spotter
FRANKLIN COUNTY --- WEST FRANKFORT [37.90, -88.92]				
	06/15/08 18:37 CST		0	Hail (0.75 in)
	06/15/08 18:37 CST		0	Source: Trained Spotter

Storm Data and Unusual Weather Phenomena - June 2008

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The trailing end of a north-south line of thunderstorms over Illinois brought a couple of marginally severe hail events to the Interstate 64 corridor. The line of storms was supported by an upper level trough digging through the upper Mississippi Valley and Great Lakes region.

WILLIAMSON COUNTY --- HERRIN [37.80, -89.03]

	06/23/08 01:06 CST	0	0	Hail (0.75 in)
	06/23/08 01:06 CST	0	0	Source: Trained Spotter

An isolated severe storm occurred near Marion. The storm occurred along a weak surface trough that extended from central Indiana southwest across the Lower Ohio Valley.

WHITE COUNTY --- 2.0 W NEW HAVEN [37.90, -88.17]

	06/26/08 18:15 CST	5K	0	Thunderstorm Wind (EG 50 kt)
	06/26/08 18:15 CST	0	0	Source: Newspaper

Trees were blown down on Route 141. Police and highway workers rerouted traffic around the area.

WHITE COUNTY --- 2.0 W NEW HAVEN [37.90, -88.17]

	06/26/08 18:20 CST	0	0	Heavy Rain
	06/26/08 20:00 CST	0	0	Source: Newspaper

A portion of Highway 141 was flooded. Traffic was detoured around the flooded section.

JEFFERSON COUNTY --- 2.0 NW MT VERNON [38.34, -88.93], 4.0 ESE MT VERNON [38.30, -88.83]

	06/27/08 16:35 CST	0	0	Funnel Cloud
	06/27/08 16:45 CST	0	0	Source: Trained Spotter

A supercell thunderstorm produced a funnel cloud that passed over the city of Mount Vernon from northwest to southeast. The funnel cloud was photographed at several points during its lifespan. Witnesses reported pronounced rotation. Shortly before the funnel briefly touched down, it was observed by a spotter from the junction of Interstates 64 and 57 looking east.

JEFFERSON COUNTY --- 2.0 N MT VERNON [38.35, -88.90]

	06/27/08 16:59 CST	0	0	Hail (0.88 in)
	06/27/08 16:59 CST	0	0	Source: Broadcast Media

JEFFERSON COUNTY --- 5.0 E MT VERNON [38.32, -88.81], 5.2 E MT VERNON [38.32, -88.80]

	06/27/08 16:59 CST	5K	0	Tornado (EF0, L: 0.20 mi , W: 30 yd)
	06/27/08 17:00 CST	0	0	Source: Broadcast Media

The funnel cloud which was observed over Mount Vernon briefly touched down several miles east of town. Trained witnesses reported very pronounced rotation with the funnel cloud. The funnel was photographed at or very close to the ground, but trees obscured the possible touchdown point. There was minimal damage, with the exception of a downed power pole and a tree. Maximum wind speeds were estimated around 70 mph.

PERRY COUNTY --- 1.0 N DU QUOIN [38.03, -89.23], 1.0 E DU QUOIN [38.02, -89.21]

	06/27/08 17:00 CST	30K	0	Thunderstorm Wind (EG 61 kt)
	06/27/08 17:00 CST	0	0	Source: Emergency Manager

On the north edge of Du Quoin, a state trooper reported trees were blown down by winds of at least 70 mph. Just east of town, a metal barn was destroyed. Debris from the 120 by 80 foot barn was spread one-half to one mile across a field.

PERRY COUNTY --- 3.0 NE DU QUOIN [38.05, -89.19]

	06/27/08 17:05 CST	30K	0	Thunderstorm Wind (EG 61 kt)
	06/27/08 17:05 CST	0	0	Source: Emergency Manager

Numerous trees and power lines were down. A large barn was moved off its foundation. There was shingle damage to a residence.

PERRY COUNTY --- DU QUOIN [38.02, -89.23]

	06/27/08 17:05 CST	0	0	Hail (1.00 in)
	06/27/08 17:05 CST	0	0	Source: Broadcast Media

JEFFERSON COUNTY --- INA [38.15, -88.90]

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	06/27/08 17:10 CST		10K	Thunderstorm Wind (EG 61 kt)
	06/27/08 17:10 CST		0	Source: NWS Employee

A greenhouse was blown into a cornfield near Rend Lake College.

JACKSON COUNTY --- 1.4 S CARBONDALE [37.70, -89.22], 4.0 S CARBONDALE [37.66, -89.22]

	06/27/08 17:15 CST		30K	Thunderstorm Wind (EG 52 kt)
	06/27/08 17:25 CST		0	Source: Emergency Manager

Trees were blown down, mostly south of downtown Carbondale. Several small trees were down on the Southern Illinois University campus. A couple of roads were blocked two to four miles south of Carbondale, including Old U.S. 51. Elsewhere in the area, a roof was damaged, a tree was down, and canoes were thrown 100 feet.

FRANKLIN COUNTY --- 1.4 N BENTON [38.02, -88.92]

	06/27/08 17:20 CST		10K	Thunderstorm Wind (EG 52 kt)
	06/27/08 17:30 CST		0	Source: NWS Employee

An off-duty NWS meteorologist reported several large trees were down, blocking Route 37.

WAYNE COUNTY --- 5.0 S FAIRFIELD [38.31, -88.37]

	06/27/08 17:35 CST		6K	Thunderstorm Wind (EG 50 kt)
	06/27/08 17:35 CST		0	Source: Law Enforcement

Two trees were down across U.S. Highway 45.

WABASH COUNTY --- 7.0 W MT CARMEL [38.42, -87.90]

	06/27/08 18:03 CST		0	Thunderstorm Wind (EG 61 kt)
	06/27/08 18:03 CST		0	Source: Trained Spotter

The 70 mph wind gust was estimated by spotters and relayed through emergency management.

WHITE COUNTY --- 2.0 W GRAYVILLE [38.27, -88.04]

	06/27/08 18:04 CST		5K	Thunderstorm Wind (EG 50 kt)
	06/27/08 18:04 CST		0	Source: Newspaper

Trees were damaged at the homes of at least three residences.

SALINE COUNTY --- HARRISBURG [37.73, -88.55]

	06/27/08 18:05 CST		10K	Thunderstorm Wind (EG 50 kt)
	06/27/08 18:05 CST		0	Source: Law Enforcement

A few trees and power lines were down.

A squall line containing several embedded bow echo structures moved eastward across southern Illinois. These bow echoes moved east-northeast around 45 mph, producing swaths of wind damage and isolated large hail. These storms were associated with a 500 mb short wave trough moving east across the mid Mississippi Valley. Sufficient moisture and instability ahead of the line, coupled with strengthening winds aloft, supported forward propagation of the line into Indiana. On the evening prior to this outbreak, an isolated severe storm occurred over White County.

ALEXANDER COUNTY --- 2.2 ESE CAIRO [36.98, -89.15], 2.6 ESE CAIRO [36.99, -89.14], 1.0 ENE CAIRO [37.01, -89.16], 0.7 ENE CAIRO [37.00, -89.17]

	06/10/08 21:00 CST		0	Flood (due to Heavy Rain)
	06/24/08 13:00 CST		10K	Source: Other Federal Agency

Minor flooding of the Ohio River occurred near Cairo. The river crested there at 41.51 feet on the 20th. Flood stage is 40 feet. Some bottomland fields were underwater.

Showers and thunderstorms ahead of an impressive cold front on the 9th produced locally heavy rain. Isolated rainfall totals were up to two inches. Another cold front on the 13th caused isolated thunderstorms that dropped between one and two inches. The runoff from these storms, combined with backwater from the flooded Mississippi River, sent the Ohio River above flood stage at Cairo.

ALEXANDER COUNTY --- THEBES [37.22, -89.47], 0.7 WNW THEBES JCT [37.20, -89.46], 0.5 WNW THEBES JCT [37.20, -89.46], 0.5 E THEBES [37.22, -89.46]

Storm Data and Unusual Weather Phenomena - June 2008

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/08/08 04:00 CST		0	Flood (due to Heavy Rain)
	06/30/08 23:59 CST		0.10M	Source: Other Federal Agency

Moderate flooding of the Mississippi River occurred. At Thebes, the river crested at 40.12 feet on the 25th. Flood stage there is 33 feet. Extensive flooding of lowland fields occurred. The river began to climb again before the end of the month, reaching a higher crest in July.

Heavy rainfall across the upper Midwest caused major rises along the Mississippi River. Record or near record flooding occurred in parts of Iowa and northern Missouri. The flood crest along the Mississippi River gradually flattened out as it moved south, but flooding still reached the moderate category at Cape Girardeau.

JACKSON COUNTY --- 1.0 NNE GRIMSBY [37.76, -89.44], 1.0 ENE GRIMSBY [37.75, -89.43], 1.3 W MT CARBON [37.75, -89.35], 1.8 WSW MURPHYSBORO [37.76, -89.36], 3.2 ENE GRIMSBY [37.77, -89.40]

06/18/08 05:00 CST	0	Flood (due to Heavy Rain)
06/30/08 23:59 CST	30K	Source: Other Federal Agency

Minor flooding of the Big Muddy River occurred. At the Murphysboro gage, the river crested at 24.39 feet on the 25th. Flood stage there is 22 feet. Some minor flooding affected houses just downstream of Bridge Street in Murphysboro. Lowland fields were inundated. A 28-year-old woman died when she lost control of her vehicle and plunged into the flooding river (indirect fatality).

Heavy rainfall across the upper Midwest caused major rises along the Mississippi River. This caused backwater flooding on the Big Muddy River.

WAYNE COUNTY --- 0.6 NE WAYNE CITY [38.36, -88.57], 0.8 NNW WAYNE CITY [38.36, -88.59], 0.6 NW WAYNE CITY [38.36, -88.59], 0.5 NE WAYNE CITY [38.36, -88.57]

06/09/08 16:00 CST	0	Flood (due to Heavy Rain)
06/11/08 18:00 CST	50K	Source: Other Federal Agency

Moderate flooding of the Skillet Fork River occurred. At the Wayne City gage, the river crested at 19.12 feet on the 10th. Flood stage there is 15 feet. Bottomland and surrounding low-lying areas were flooded.

Showers and thunderstorms ahead of an impressive cold front on the 9th produced locally heavy rain. Isolated rainfall totals were up to two inches. This resulted in minor flooding on the Skillet Fork River.

WABASH COUNTY --- 1.8 SSW PATTON [38.46, -87.76], 1.8 S PATTON [38.45, -87.75], 2.6 NE MT CARMEL [38.44, -87.73], 1.4 ESE MT CARMEL [38.42, -87.74]

06/08/08 11:00 CST	50K	Flood (due to Heavy Rain)
06/22/08 06:00 CST	0.10M	Source: Other Federal Agency

Major flooding of the Wabash River occurred. At Mount Carmel, the river crested at 33.24 feet on the 14th. Flood stage there is 19 feet. This crest was almost one foot below the record flood crest that occurred in January of 2005. Sandbagging operations were conducted at the public utility company's substation. Debris floating in the river snapped a utility pole, causing a power outage over two hours long that affected the whole city of Mount Carmel. All unprotected flood plain areas were flooded, including the northern outskirts of Mount Carmel and eastern Wabash County. Three streets were impacted by backwater flooding of Greathouse Creek. Numerous local roads were impassable. A few evacuations were necessary. Agricultural losses were near 100 percent in areas that were not protected by levees.

WHITE COUNTY --- 2.6 NE MAUNIE [38.05, -88.01], 4.2 ENE MAUNIE [38.06, -87.98], 5.0 SE PHILLIPSTOWN [38.10, -87.96], 3.5 SE GARNERVILLE [38.08, -88.01]

06/09/08 06:00 CST	0	Flood (due to Heavy Rain)
06/24/08 12:00 CST	0.10M	Source: Other Federal Agency

Moderate flooding of the Wabash River occurred. At New Harmony, IN, the river crested at 22.45 feet on the 15th. Flood stage there is 15 feet. The river was three miles wide at I-64. Extensive flooding of low-lying fields occurred.

Excessive rainfall in the upper Midwest caused major flooding on the Wabash River. The ground was already saturated over central Indiana and eastern Illinois when a deluge occurred on the 6th. Storms on the evening of the 6th produced a boundary in southern Illinois and southern Indiana. A moist southerly low level jet rode over this boundary for more than 12 hours, continually generating showers and thunderstorms. Tremendous rainfall amounts from 2 to nearly 11 inches were observed across central Indiana and eastern Illinois. Runoff sent the Wabash River well above flood stage all the way to the Ohio River. The river was above flood stage for a majority of June. The duration and strength of the flow was so great coming out of the Wabash River into the Ohio River as to cause shoaling. The Ohio River was closed along a mile-and-a-half stretch for a little over a week to conduct dredging operations.

(IL-Z075) JEFFERSON, (IL-Z076) WAYNE, (IL-Z077) EDWARDS, (IL-Z078) WABASH, (IL-Z080) PERRY, (IL-Z081) FRANKLIN, (IL-Z082) HAMILTON, (IL-Z083) WHITE, (IL-Z084) JACKSON, (IL-Z085) WILLIAMSON, (IL-Z086) SALINE, (IL-Z087) GALLATIN, (IL-Z089) JOHNSON, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI

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	06/21/08 01:00 CST		0	Dense Fog
	06/21/08 07:00 CST		0	

Widespread dense fog occurred as a result of clear skies and light winds. Visibility dropped to one quarter mile or less over most of southern Illinois.

INDIANA, Southwest

GIBSON COUNTY --- 5.0 W PRINCETON [38.35, -87.66]

06/09/08 16:00 CST	0	Hail (0.75 in)
06/09/08 16:00 CST	0	Source: Trained Spotter

GIBSON COUNTY --- 5.0 W PRINCETON [38.35, -87.66]

06/09/08 16:00 CST	10K	Thunderstorm Wind (EG 52 kt)
06/09/08 16:00 CST	0	Source: Trained Spotter

Large branches were blown down, and several saplings were blown over. A parked car was struck by a flying shelf. The damage occurred along State Route 64.

A weak cold front moved southeast into the Lower Ohio Valley during the night. This front, combined with an approaching upper level disturbance over the Plains, triggered numerous thunderstorms during the afternoon and evening hours. An isolated report of wind damage was received near Princeton.

SPENCER COUNTY --- GRANDVIEW [37.93, -86.98]

06/13/08 14:30 CST	0	Heavy Rain
06/13/08 16:30 CST	0	Source: Trained Spotter

A total of 2.37 inches of rain fell in two hours.

WARRICK COUNTY --- NEWBURGH [37.95, -87.42]

06/13/08 14:30 CST	0	Heavy Rain
06/13/08 15:00 CST	0	Source: Trained Spotter

A thunderstorm produced 1.38 inches of rain in 30 minutes.

SPENCER COUNTY --- 1.5 ESE PATRONVILLE [37.84, -87.09]

06/13/08 15:40 CST	0	Hail (1.00 in)
06/13/08 15:40 CST	0	Source: Trained Spotter

Thunderstorms quickly intensified in the hot, humid, and unstable atmosphere during the afternoon. As a cold front approached from the northwest, the storms continued into the early evening.

POSEY COUNTY --- ST PHILIP [37.98, -87.72]

06/15/08 19:55 CST	0	Hail (0.75 in)
06/15/08 19:55 CST	0	Source: Trained Spotter

The trailing end of a north-south line of thunderstorms over Indiana brought a marginally severe hail event along the Interstate 64 corridor. The line of storms was supported by an upper level trough digging through the upper Mississippi Valley and Great Lakes region.

POSEY COUNTY --- 3.0 W POSEYVILLE [38.17, -87.84]

06/27/08 18:20 CST	0	Thunderstorm Wind (EG 52 kt)
06/27/08 18:20 CST	0	Source: Trained Spotter

Wind gusts estimated to 60 mph were reported by a spotter.

POSEY COUNTY --- ST PHILIP [37.98, -87.72]

06/27/08 18:49 CST	0	Funnel Cloud
06/27/08 18:49 CST	0	Source: Trained Spotter

Storm Data and Unusual Weather Phenomena - June 2008

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VANDERBURGH COUNTY --- EVANSVILLE [37.98, -87.55]				
	06/27/08 18:50 CST		0	Thunderstorm Wind (EG 52 kt)
	06/27/08 19:00 CST		0	Source: Trained Spotter
At least two spotters in Evansville estimated wind gusts to 60 mph. The peak wind gust measured at the Evansville airport was 54 mph. The winds were accompanied by a rolling shelf cloud.				
VANDERBURGH COUNTY --- EVANSVILLE [37.98, -87.55]				
	06/27/08 19:00 CST		0	Heavy Rain
	06/27/08 19:50 CST		0	Source: Trained Spotter
Four to five inches of water covered Route 62 at the intersection with U.S. Highway 41.				
WARRICK COUNTY --- BOONVILLE [38.05, -87.27]				
	06/27/08 19:00 CST		0	Thunderstorm Wind (EG 52 kt)
	06/27/08 19:00 CST		0	Source: Trained Spotter
A spotter estimated wind gusts to 60 mph. No damage was reported.				
PIKE COUNTY --- 1.0 E PETERSBURG [38.50, -87.26]				
	06/27/08 19:53 EST		0	Funnel Cloud
	06/27/08 19:53 EST		0	Source: Trained Spotter
A squall line containing several embedded bow echo structures moved eastward from southern Illinois. These bow echoes moved east-northeast around 45 mph, producing swaths of wind damage. These storms were associated with a 500 mb short wave trough moving east across the mid Mississippi Valley. Sufficient moisture and instability ahead of the line, coupled with strengthening winds aloft, supported forward propagation of the line across southwest Indiana.				
GIBSON COUNTY --- EAST MT CARMEL [38.40, -87.73], 2.0 WSW CAROL [38.32, -87.81], 3.1 N CRAWLEYVILLE [38.33, -87.83], 2.0 NNW EAST MT CARMEL [38.43, -87.74]				
	06/08/08 11:00 CST		50K	Flood (due to Heavy Rain)
	06/22/08 14:00 CST		0.10M	Source: Other Federal Agency
Major flooding of the Wabash River occurred. At Mount Carmel, IL, the river crested at 33.24 feet on the 14th. Flood stage there is 19 feet. This crest was almost one foot below the record flood crest that occurred in January of 2005. All unprotected flood plain areas were flooded, including much of western Gibson County. Numerous local roads were impassable, with at least three feet of water over them. Some evacuations were necessary. Black Hawk River Camp, about 1 1/2 miles south of Griffin, flooded extensively. The river was 3 miles wide at I-64. Extensive flooding occurred in East Mt. Carmel, Indiana. The road through East Mount Carmel was impassable. Most structures in East Mt. Carmel were right at the elevation of the flood crest. Vehicles were moved to higher ground.				
POSEY COUNTY --- 3.9 SSW NEW HARMONY [38.08, -87.95], 3.8 SSW NEW HARMONY [38.08, -87.96], 0.6 NW NEW HARMONY [38.14, -87.94], 0.7 SW NEW HARMONY [38.12, -87.94]				
	06/09/08 05:00 CST		0	Flood (due to Heavy Rain)
	06/24/08 15:00 CST		0.10M	Source: Other Federal Agency
Moderate flooding of the Wabash River occurred. At New Harmony, the river crested at 22.45 feet on the 15th. Flood stage there is 15 feet. The river was three miles wide at I-64. Flooding began on the northern outskirts of New Harmony, and sandbagging became necessary in town. However, floodwater did not enter city streets of New Harmony. Surrounding bottomland was flooded. Harmonie State Park was closed.				
Excessive rainfall in the upper Midwest caused major flooding on the Wabash River. The ground was already saturated over central Indiana and eastern Illinois when a deluge occurred on the 6th. Storms on the evening of the 6th produced a boundary in southern Illinois and southern Indiana. A moist southerly low level jet rode over this boundary for more than 12 hours, continually generating showers and thunderstorms. Tremendous rainfall amounts from 2 to nearly 11 inches were observed across central Indiana and eastern Illinois. Runoff sent the Wabash River well above flood stage all the way to the Ohio River. The river was above flood stage for a majority of June. The duration and strength of the flow was so great coming out of the Wabash River into the Ohio River as to cause shoaling. The Ohio River was closed along a mile-and-a-half stretch for a little over a week to conduct dredging operations.				
PIKE COUNTY --- PETERSBURG [38.50, -87.28], 4.2 NNE ALFORD [38.53, -87.21], 4.4 NE PETERSBURG [38.54, -87.22], 3.0 NNE PETERSBURG [38.54, -87.25], 1.0 NNW PETERSBURG [38.51, -87.28]				
	06/07/08 07:00 EST		0.10M	Flood (due to Heavy Rain)
	06/21/08 14:00 EST		0.10M	Source: Other Federal Agency

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Major flooding occurred on the White River. At Petersburg, the river crested at 26.96 feet on the 12th. Flood stage is 16 feet. This flood crest was slightly lower than the crest of January, 2005. Flood waters were at the edge of State Route 56 near Bowman. Some evacuations were necessary. River cabins were under water. Damage occurred to the rural county road system. The Dodge City area flooded extensively.

GIBSON COUNTY --- 0.9 NE GIRO [38.51, -87.46], 0.9 N GIRO [38.51, -87.47], 1.1 N HAZLETON [38.50, -87.53], 1.3 WNW HAZLETON [38.49, -87.55]

	06/08/08 07:00 CST		0.10M	Flood (due to Heavy Rain)
	06/23/08 17:00 CST		0.10M	Source: Other Federal Agency

Major flooding of the White River occurred. At Hazleton, the river crested at 29.70 feet on the 12th. Flood stage there is 16 feet. This flood crest was almost two feet lower than the crest of January, 2005. Local levees were at critical levels. Flood fighting and some evacuations were in progress. Oil fields and residential areas on the river side of the levees flooded extensively. Sandbagging began in Hazleton. Water was more than two feet deep in the west end of Hazleton at West 2nd and Brown Streets. Most people in residential cabins on the riverward side of the levee were relocated. Many local roads were completely impassable. Oil fields were inaccessible. Water pumps were installed on the west end of Hazleton. A six-inch water pump was installed at 2nd and Brown Street to keep water off the streets.

Excessive rainfall in the upper Midwest caused major flooding on the White River. The ground was already saturated over central Indiana and eastern Illinois when a deluge occurred on the 6th. Storms on the evening of the 6th produced a boundary in southern Illinois and southern Indiana. A moist southerly low level jet rode over this boundary for more than 12 hours, continually generating showers and thunderstorms. Tremendous rainfall amounts from 2 to nearly 11 inches were observed across central Indiana and eastern Illinois. Runoff sent the White River well above flood stage all the way across southern Indiana.

KENTUCKY, Southwest

MUHLENBERG COUNTY --- 3.0 NE DRAKESBORO [37.25, -87.01]

	06/12/08 13:34 CST		10K	Thunderstorm Wind (EG 52 kt)
	06/12/08 13:34 CST		0	Source: Law Enforcement

Power poles were leaning over a state road.

An isolated severe thunderstorm occurred in a south wind flow of very warm and unstable air. The storm only briefly pulsed above severe levels.

DAVIESS COUNTY --- OWENSBORO [37.77, -87.12]

	06/13/08 15:50 CST		5K	Thunderstorm Wind (EG 50 kt)
	06/13/08 15:50 CST		0	Source: Trained Spotter

Large tree limbs were damaged. Backyard furniture was damaged at a house in Owensboro.

DAVIESS COUNTY --- OWENSBORO [37.77, -87.12]

	06/13/08 15:53 CST		0	Hail (0.88 in)
	06/13/08 15:53 CST		0	Source: Trained Spotter

MCCRACKEN COUNTY --- 0.8 NNW TYLER [37.06, -88.58]

	06/13/08 15:53 CST		50K	Thunderstorm Wind (EG 56 kt)
	06/13/08 15:53 CST		0	Source: Newspaper

A dozen trees were down on the south side of Paducah. One house was destroyed and another was heavily damaged when a 4-foot diameter hackberry tree was uprooted.

MCCRACKEN COUNTY --- 1.0 SE PADUCAH [37.07, -88.62]

	06/13/08 15:55 CST		0	Heavy Rain
	06/13/08 16:55 CST		0	Source: Newspaper

Water was over several streets. At least one street was impassable to small vehicles.

HICKMAN COUNTY --- SPRING HILL [36.73, -88.97]

	06/13/08 16:40 CST		0	Hail (1.00 in)
	06/13/08 16:40 CST		0	Source: Emergency Manager

The hail persisted for several minutes and was accompanied by strong wind gusts up to 50 mph.

Storm Data and Unusual Weather Phenomena - June 2008

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
CALLOWAY COUNTY --- 1.1 SW WADESBORO [36.74, -88.34]				
	06/13/08 18:05 CST		3K	Thunderstorm Wind (EG 50 kt)
	06/13/08 18:05 CST		0	Source: Emergency Manager
Power lines were down along Oak Grove Road.				
CALLOWAY COUNTY --- 2.0 N HAZEL [36.53, -88.32]				
	06/13/08 18:35 CST		0	Hail (0.88 in)
	06/13/08 18:35 CST		0	Source: Trained Spotter
GRAVES COUNTY --- 1.1 SSW WINGO [36.64, -88.74], 1.7 W HICKSVILLE [36.80, -88.53]				
	06/13/08 19:00 CST		25K	Thunderstorm Wind (EG 50 kt)
	06/13/08 19:15 CST		0	Source: Law Enforcement
Several trees were blown down over an area from Pryorsburg to Wingo to Mayfield, then along the Purchase Parkway to the Marshall County line. A healthy large tree fell on a house in Mayfield, causing significant roof damage. A nearby SUV was damaged by one of the limbs.				
MCCRACKEN COUNTY --- PADUCAH [37.08, -88.63]				
	06/13/08 19:05 CST		2K	Thunderstorm Wind (EG 52 kt)
	06/13/08 19:09 CST		0	Source: NWS Employee
Several trees were blown down by winds estimated up to 60 mph.				
CHRISTIAN COUNTY --- 0.9 SW PEMBROKE [36.77, -87.36]				
	06/13/08 19:10 CST		10K	Thunderstorm Wind (EG 50 kt)
	06/13/08 19:10 CST		0	Source: Emergency Manager
A few trees and power lines were down.				
CALLOWAY COUNTY --- NEW CONCORD [36.55, -88.15]				
	06/13/08 19:15 CST		0	Hail (1.00 in)
	06/13/08 19:15 CST		0	Source: Trained Spotter
CALLOWAY COUNTY --- NEW CONCORD [36.55, -88.15]				
	06/13/08 19:15 CST		3K	Thunderstorm Wind (EG 50 kt)
	06/13/08 19:15 CST		0	Source: Emergency Manager
A few large limbs were blown down.				
CHRISTIAN COUNTY --- 3.0 SE HOPKINSVILLE [36.82, -87.44]				
	06/13/08 19:15 CST		5K	Thunderstorm Wind (EG 50 kt)
	06/13/08 19:15 CST		0	Source: Trained Spotter
A few trees were down.				
MARSHALL COUNTY --- DRAFFENVILLE [36.92, -88.33], 0.5 WSW BRIENSBURG [36.90, -88.33]				
	06/13/08 19:20 CST		20K	Thunderstorm Wind (EG 56 kt)
	06/13/08 19:35 CST		0	Source: Trained Spotter
Numerous large trees were down, mainly in the central part of the county near Briensburg. A concentration of downed trees was reported in areas along Highway 58, especially from U.S. Highway 641 to U.S. Highway 68 in the Briensburg area.				
LIVINGSTON COUNTY --- 2.6 WNW NEWBERN [37.09, -88.37], 2.6 SSW VICKSBURG [37.14, -88.35]				
	06/13/08 19:30 CST		5K	Thunderstorm Wind (EG 50 kt)
	06/13/08 19:40 CST		0	Source: Trained Spotter
Trees were down, including two that blocked roads. State Routes 70 and 453 were each blocked.				

Storms intensified and increased in coverage late in the afternoon and evening as they developed southward across western Kentucky and southeast Missouri. The storms quickly intensified in the hot, humid, and unstable atmosphere. As a cold front approached from the northwest, some storms maintained severe levels well into the evening.

Storm Data and Unusual Weather Phenomena - June 2008

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
DAVIESS COUNTY --- 1.5 SW OWENSBORO [37.75, -87.14]				
	06/27/08 19:54 CST		3K	Thunderstorm Wind (EG 50 kt)
	06/27/08 19:54 CST		0	Source: Emergency Manager

A large billboard was blown down along Highway 81.

A squall line moved eastward across southwest Indiana, clipping northwest Kentucky with strong winds and heavy rain. These storms were associated with a 500 mb short wave trough moving east across the mid Mississippi Valley. Sufficient moisture and instability ahead of the line, coupled with strengthening winds aloft, supported forward propagation of the line across the Lower Ohio Valley.

(KY-Z010) CRITTENDEN, (KY-Z012) TRIGG, (KY-Z013) CALDWELL, (KY-Z017) CHRISTIAN, (KY-Z022) TODD				
	06/15/08 03:00 CST		0	Dense Fog
	06/15/08 07:00 CST		0	

Clear skies and light winds set the stage for dense fog. Visibility dropped to one-quarter mile or less from the Hopkinsville area to around Princeton and Marion.

(KY-Z001) FULTON, (KY-Z002) HICKMAN, (KY-Z003) CARLISLE, (KY-Z006) GRAVES, (KY-Z008) MARSHALL, (KY-Z009) CALLOWAY				
	06/21/08 01:00 CST		0	Dense Fog
	06/21/08 07:00 CST		0	

Widespread dense fog formed over extreme southwest Kentucky as a result of clear skies and light winds. Visibility dropped to one quarter mile or less from Murray and Benton west to Fulton and Bardwell.

MISSOURI, Southeast

STODDARD COUNTY --- PAXICO [36.95, -90.17]				
	06/09/08 17:10 CST		0	Hail (1.00 in)
	06/09/08 17:10 CST		0	Source: Emergency Manager

Quarter size hail was reported in Puxico.

SCOTT COUNTY --- SIKESTON [36.88, -89.58]				
	06/09/08 18:34 CST		0	Thunderstorm Wind (EG 52 kt)
	06/09/08 18:34 CST		0	Source: Law Enforcement

A couple of isolated marginally severe wind and hail events occurred. A weak cold front moved southeast into the Lower Ohio Valley during the night. This front, combined with an approaching upper level disturbance over the Plains, triggered numerous thunderstorms during the afternoon and evening hours. Thunderstorms began developing during the early afternoon as temperatures climbed into the lower 90's and the atmosphere became quite unstable. The storms decreased in intensity as the atmosphere cooled later in the evening.

CARTER COUNTY --- 0.9 E GRANDIN [36.83, -90.81], 1.5 E GRANDIN [36.83, -90.80]				
	06/13/08 14:55 CST		50K	Tornado (EF1, L: 0.62 mi , W: 125 yd)
	06/13/08 14:58 CST		0	Source: NWS Storm Survey

The tornado touched down near the Grandin City Park on the east side of Grandin. A few trees were blown down at the ball fields. The tornado continued east, affecting two residences along County Road 247 just east of town. One house sustained moderate shingle damage. A second house sustained major roof damage. A large barn was heavily damaged, with one wall and door blown off. Large sections of roof were missing. Numerous large trees were snapped or uprooted. Trees on the south side of the track were laying in a northwest direction. South to north striations were easily visible in tall field grass. Several eyewitnesses clearly indicated a funnel cloud touched down. The track end point was estimated due to the fact the damage path continued into woods and fields that were inaccessible by vehicle. Peak wind speeds were estimated at 90 mph. The average path width was 75 yards.

An isolated tornado occurred in southern Carter County. The tornado was spawned by a supercell thunderstorm that formed late in the afternoon in a hot, humid, and very unstable atmosphere. A cold front approaching from the northwest helped initiate the afternoon and evening storms.

BUTLER COUNTY --- 1.0 S POPLAR BLUFF [36.74, -90.40], 1.0 N POPLAR BLUFF [36.76, -90.40]				
	06/20/08 15:02 CST		3K	Hail (1.25 in)
	06/20/08 15:02 CST		0	Source: Emergency Manager

Storm Data and Unusual Weather Phenomena - June 2008

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Quarter to half-dollar size hail occurred throughout most of Poplar Bluff. The hail damaged plants on the north side of the city and broke at least one window.

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

	06/20/08 15:15 CST		50K	Thunderstorm Wind (EG 56 kt)
	06/20/08 15:15 CST		0	Source: Newspaper

Numerous trees were blown down in a narrow path across the north side of Poplar Bluff. The city street department reported 26 trees across streets and six others down in cemeteries. Many others were down in yards. The trees were as large as three feet in diameter. Windows were blown out at a junior high school. At the high school baseball field, a chain-link fence was blown down. Advertising signs were damaged, and one sign was blown away. The roof was blown off the skybox seats at the football field. A window was blown out of a store in a shopping center. A fireworks display tent collapsed.

BUTLER COUNTY --- 4.0 NW POPLAR BLUFF [36.79, -90.45], POPLAR BLUFF [36.75, -90.40], 1.3 ENE POPLAR BLUFF [36.76, -90.38], 1.9 SSW HILLARD [36.80, -90.43]

	06/20/08 16:00 CST		20K	Flash Flood (due to Heavy Rain)
	06/20/08 17:00 CST		0	Source: Newspaper

Residents reported 2.5 to 3.5 inches of rain in less than an hour. At least three streets were closed due to flash flooding. A substantial leak occurred at a school, causing ceiling tile to drop and some flooding. Significant slowdowns or stoppage of traffic occurred. Water was over the road at the intersection of U.S. Routes 60 and 67. Water was flowing out of ditches along Highway 142.

An isolated severe storm with heavy rain occurred in Poplar Bluff. The storm developed along a surface trough that extended from eastern Missouri into Arkansas. At 500 mb, a weak shortwave embedded in northwest flow contributed to the storm.

CAPE GIRARDEAU COUNTY --- 3.9 NE CAPE GIRARDEAU [37.34, -89.48], 3.7 NE CAPE GIRARDEAU [37.34, -89.48], 0.8 E CAPE GIRARDEAU [37.30, -89.52], 1.3 NE CAPE GIRARDEAU [37.31, -89.52]

	06/06/08 05:00 CST		0	Flood (due to Heavy Rain)
	06/30/08 23:59 CST		0.10M	Source: Other Federal Agency

Moderate flooding of the Mississippi River occurred. At Cape Girardeau, the river crested at 41.37 feet on the 24th. Flood stage there is 32 feet. Extensive flooding of lowland fields occurred. A couple of flood gates were closed in the Cape Girardeau floodwall. Rail traffic was stopped through Cape Girardeau. Water was over Main Street just north of Sloan Creek in Cape Girardeau. Highway 177 was covered with water at the northern city limits, but the road was not closed. Some motorists drove through the few inches of water on the road. A temporary makeshift levee was built outside of Dutchtown to prevent backwater flooding. Cape Girardeau County was declared a disaster area for the third time in 2008. Accurate cropland flood damage estimates were not available since the river rose even higher in July.

Heavy rainfall across the upper Midwest caused major rises along the Mississippi River. Record or near record flooding occurred in parts of Iowa and northern Missouri. The flood crest along the Mississippi River gradually flattened out as it moved south, but flooding still reached the moderate category at Cape Girardeau.

CAPE GIRARDEAU COUNTY --- CAPE GIRARDEAU [37.30, -89.53], 0.7 S CAPE GIRARDEAU [37.29, -89.53]

	06/26/08 18:00 CST		20K	Heavy Rain
	06/26/08 20:00 CST		0	Source: Newspaper

Several blocks of downtown Cape Girardeau flooded with up to four feet of water after a lightning strike knocked out power to storm water pumps. Water was up to two feet deep in a historic restaurant. The pumps are used to keep the downtown commercial district dry when the Mississippi River is above flood stage. Storm water does not freely drain into the river when it is above flood stage.

BOLLINGER COUNTY --- MARBLE HILL [37.30, -89.97], 0.6 SW LUTESVILLE [37.29, -89.99]

	06/26/08 19:00 CST		0	Heavy Rain
	06/26/08 20:50 CST		0	Source: Emergency Manager

A co-operative observer measured 4.30 inches of rain in Marble Hill. An unofficial observation from a nearby location showed 4.65 inches. The emergency management director reported four inches fell in one hour. No major problems were reported.

Numerous showers and thunderstorms produced very heavy rain. The storms occurred in a southwest wind flow of warm and moist air. At 500 mb, a persistent northwest flow containing embedded shortwaves enhanced the storms.

(MO-Z087) CAPE GIRARDEAU, (MO-Z110) STODDARD, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID

	06/21/08 01:00 CST		0	Dense Fog
	06/21/08 07:00 CST		0	

Widespread dense fog formed over extreme southeast Missouri as a result of clear skies and light winds. Visibility dropped to one quarter mile or less from Cape Girardeau and Dexter southeast to New Madrid and Sikeston.

Storm Data and Unusual Weather Phenomena - June 2008

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Storm Data and Unusual Weather Phenomena - July 2008

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

ALEXANDER COUNTY --- THEBES [37.22, -89.47], 0.6 W THEBES JCT [37.20, -89.46], 0.4 WNW THEBES JCT [37.20, -89.46], 0.5 E THEBES [37.22, -89.46]	07/01/08 00:00 CST		0	Flood (due to Heavy Rain)
	07/14/08 04:00 CST		0.10M	Source: River/Stream Gage

Moderate flooding of the Mississippi River occurred. At Thebes, the river crested at 40.95 feet on the 3rd. Flood stage there is 33 feet. Extensive flooding of lowland fields occurred.

The Mississippi River remained above flood stage well into July as a result of record-setting rainfall in the upper and middle parts of the Mississippi Valley in June.

JACKSON COUNTY --- 2.4 W MURPHYSBORO [37.77, -89.37], 2.8 W MURPHYSBORO [37.76, -89.38], 0.5 WSW MT CARBON [37.75, -89.34], 0.7 WNW MT CARBON [37.75, -89.34]	07/01/08 00:00 CST		0	Flood (due to Heavy Rain)
	07/10/08 15:00 CST		50K	Source: River/Stream Gage

Minor flooding of the Big Muddy River occurred. At the Murphysboro gage, the river crested at 25.46 feet on the 3rd. Flood stage there is 22 feet. Some minor flooding affected houses just downstream of Bridge Street in Murphysboro. Lowland fields were inundated.

Backwater flooding continued into early July on the Big Muddy River. Heavy rainfall across the upper Midwest in June caused major rises along the Mississippi River, which affected the Big Muddy.

MISSOURI, Southeast

CAPE GIRARDEAU COUNTY --- 2.5 NE CAPE GIRARDEAU [37.33, -89.50], 2.6 NE CAPE GIRARDEAU [37.33, -89.49], 0.7 ENE CAPE GIRARDEAU [37.30, -89.52], 1.0 NE CAPE GIRARDEAU [37.31, -89.52]	07/01/08 00:00 CST		0	Flood (due to Heavy Rain)
	07/16/08 18:00 CST		0.10M	Source: River/Stream Gage

Major flooding of the Mississippi River occurred. At Cape Girardeau, the river crested at 42.35 feet on the 3rd. Flood stage is 32 feet, and major flooding begins at 42 feet. Over 100,000 acres were flooded. A couple of flood gates were closed in the Cape Girardeau floodwall. Rail traffic was stopped through Cape Girardeau. Highway 177 was closed at the northern city limits of Cape Girardeau. A temporary makeshift levee was built outside of Dutchtown to prevent backwater flooding. Cape Girardeau County was declared a disaster area.

The Mississippi River remained above flood stage well into July as a result of record-setting rainfall in the upper and middle parts of the Mississippi Valley in June.