

Storm Data and Unusual Weather Phenomena - July 2008

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ILLINOIS, South				
PULASKI COUNTY --- 0.7 S MOUNDS [37.11, -89.20]				
	07/08/08 14:51 CST		2K	Thunderstorm Wind (EG 50 kt)
	07/08/08 14:51 CST		0	Source: Law Enforcement
Power lines were blown down in the south area of Mounds.				
JEFFERSON COUNTY --- MT VERNON [38.32, -88.90]				
	07/08/08 15:20 CST		30K	Thunderstorm Wind (EG 52 kt)
	07/08/08 15:25 CST		0	Source: Newspaper
Numerous large tree limbs were blown down. Tree limbs fell across several city streets. Two vehicles were damaged by falling limbs. Power lines were damaged by broken tree limbs.				
A couple isolated occurrences of wind damage occurred with storms along and ahead of a weak surface cold front that moved southeast from Missouri to the Lower Ohio Valley. The storms formed during the heat and humidity of the afternoon, organizing into bow-shaped structures that produced strong winds.				
PERRY COUNTY --- PINCKNEYVILLE [38.08, -89.38], TAMAROA [38.13, -89.23]				
	07/11/08 16:34 CST		75K	Thunderstorm Wind (EG 61 kt)
	07/11/08 16:49 CST	1	0	Source: Law Enforcement
About a mile northwest of Pinckneyville, a very large tree fell on a mobile home and destroyed it. One person was injured. Elsewhere around Pinckneyville, numerous trees were uprooted and a barn was destroyed. One tree fell across railroad tracks, stopping train traffic. Other trees fell on power lines. Several trees were down in Tamaroa.				
JEFFERSON COUNTY --- 2.0 N INA [38.18, -88.90]				
	07/11/08 17:28 CST		0	Hail (0.75 in)
	07/11/08 17:28 CST		0	Source: Trained Spotter
Thunderstorms formed during the heat of the afternoon in a hot and humid southerly wind flow. A weak surface trough or warm front aided the storms.				
UNION COUNTY --- ANNA [37.47, -89.25]				
	07/12/08 15:05 CST		60K	Thunderstorm Wind (EG 50 kt)
	07/12/08 15:05 CST		0	Source: Law Enforcement
Numerous large tree limbs were blown down, including some that landed on houses and vehicles. One of the largest tree limbs knocked a chimney off a roof. The chimney smashed through the windshield of a parked car. Power lines were down.				
JEFFERSON COUNTY --- MT VERNON [38.32, -88.90], 0.9 WNW MT VERNON [38.32, -88.92], 1.8 SW MT VERNON [38.30, -88.93], 1.3 SSE MT VERNON [38.30, -88.89]				
	07/12/08 17:29 CST		0	Flash Flood (due to Heavy Rain)
	07/12/08 19:00 CST		0	Source: Public
Eight to ten inches of water covered roadways in Mount Vernon.				
A severe storm formed along a cold front that moved southeast into the Lower Ohio Valley. Other storms along the front produced copious rainfall.				
JACKSON COUNTY --- CARBONDALE ARPT [37.78, -89.25], CARBONDALE [37.72, -89.22]				
	07/30/08 18:00 CST		0	Heavy Rain
	07/30/08 18:45 CST		0	Source: ASOS
Three inches of rain fell in 45 minutes at the Carbondale airport. A spotter reported very similar rainfall rates in the city of Carbondale, where street flooding was common.				
JACKSON COUNTY --- CARBONDALE [37.72, -89.22]				
	07/30/08 18:20 CST		8K	Thunderstorm Wind (EG 50 kt)
	07/30/08 18:20 CST		0	Source: Law Enforcement
Several trees and power lines were down around Carbondale, especially on the north side.				

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Scattered thunderstorms formed during the heat of the afternoon, aided by a weak surface trough that extended from northern Arkansas northeast across the Lower Ohio Valley. Tropical moisture combined with the slow movement of the storms resulted in locally very heavy rain.

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.

WABASH COUNTY --- MT CARMEL [38.42, -87.77], 1.4 SSE MT CARMEL [38.40, -87.76]

	07/07/08 08:15 CST	0	Heavy Rain
	07/07/08 09:15 CST	0	Source: Trained Spotter

Low-lying roadways were flooded. Ponding of water occurred on most roads.

Thunderstorms with heavy rain were fed by a brisk southwest wind flow of moist and unstable air.

(IL-Z075) JEFFERSON, (IL-Z083) WHITE

	07/21/08 12:00 CST	0	Heat
	07/21/08 17:00 CST	0	

Hot and humid conditions prevailed as a large upper-level ridge of high pressure covered the south central United States. The heat index peaked between 105 and 109 degrees for a few hours at Mount Vernon and Carmi.

(IL-Z075) JEFFERSON, (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-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC

	07/05/08 00:00 CST	0	Dense Fog
	07/05/08 06:00 CST	0	

Widespread dense fog formed over much of southern Illinois as a result of clear skies, light winds, and abundant moisture near the surface. The widespread dense fog was west of a line from Fairfield to Carmi to Elizabethtown. Visibility was below one-quarter mile at many locations.

INDIANA, Southwest

POSEY COUNTY --- 5.0 E MT VERNON [37.93, -87.81]

	07/08/08 17:35 CST	0	Thunderstorm Wind (EG 52 kt)
	07/08/08 17:35 CST	0	Source: Trained Spotter

A few tree limbs were blown down. Wind speeds were estimated near 60 mph.

SPENCER COUNTY --- 2.0 N DALE [38.20, -86.98]

	07/08/08 18:42 CST	0	Thunderstorm Wind (MG 56 kt)
	07/08/08 18:42 CST	0	Source: Trained Spotter

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A mobile spotter measured a gust to 64 mph.

Isolated severe wind gusts occurred with storms along and ahead of a weak surface cold front that moved southeast from Missouri to the Lower Ohio Valley. The storms formed during the heat and humidity of the afternoon, organizing into a bow-shaped structure that produced strong winds.

(IN-Z086) VANDERBURGH

07/21/08 14:00 CST	0	Heat
07/21/08 17:00 CST	0	

Hot and humid conditions prevailed as a large upper-level ridge of high pressure covered the south central United States. The heat index peaked around 105 degrees for a few hours at Evansville.

GIBSON COUNTY --- PATOKA [38.42, -87.58], PRINCETON [38.35, -87.57]

07/30/08 21:00 CST	10K	Thunderstorm Wind (EG 50 kt)
07/30/08 21:10 CST	0	Source: Newspaper

Several trees were blown down. A tree was blown down in Patoka. A tree and a utility line were blown down in Princeton. Another tree was down on Indiana 64, and one more tree was down on County Road 475.

GIBSON COUNTY --- OWENSVILLE [38.27, -87.68]

07/30/08 21:15 CST	5K	Lightning
07/30/08 21:15 CST	0	Source: Newspaper

Lightning struck an oil field tank battery, causing a fire.

Scattered thunderstorms formed during the heat of the afternoon, aided by a weak surface trough that extended from northern Arkansas northeast across the Lower Ohio Valley. The scattered storms evolved into a large complex that moved across southwest Indiana during the evening, producing isolated wind damage.

KENTUCKY, Southwest

MCCRACKEN COUNTY --- 0.6 W ROSSINGTON [37.15, -88.84], PADUCAH [37.08, -88.63]

07/08/08 15:35 CST	2K	Thunderstorm Wind (EG 52 kt)
07/08/08 15:45 CST	0	Source: Trained Spotter

Wind gusts were estimated up to 60 mph in Grahamville. Some debris was on roads in the west part of the county, including small tree limbs. A couple of trees were down across roads in Paducah and Lone Oak. An off-duty meteorologist estimated winds to around 60 mph in Paducah.

GRAVES COUNTY --- MAYFIELD [36.73, -88.63]

07/08/08 16:00 CST	10K	Thunderstorm Wind (EG 52 kt)
07/08/08 16:00 CST	0	Source: Broadcast Media

A few trees and power lines were blown down.

Isolated wind damage occurred with storms along and ahead of a weak surface cold front that moved southeast from Missouri to the Lower Ohio Valley. The storms formed during the heat and humidity of the afternoon, organizing into a bow-shaped structure that produced strong winds.

HOPKINS COUNTY --- MADISONVILLE [37.33, -87.50]

07/30/08 13:50 CST	10K	Thunderstorm Wind (MG 52 kt)
07/30/08 13:50 CST	0	Source: Emergency Manager

A wind gust to 60 mph was measured in the southern part of Madisonville. Large tree limbs were down, blocking a few roads and damaging a fence. A small porch on a restaurant was damaged, along with a gazebo.

MUHLENBERG COUNTY --- BEECH CREEK [37.18, -87.07]

07/30/08 14:30 CST	50K	Lightning
07/30/08 14:30 CST	0	Source: Trained Spotter

A lightning strike and the resulting fire totalled a house.

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Scattered thunderstorms formed during the heat of the afternoon, aided by a weak surface trough that extended from northern Arkansas northeast across the Lower Ohio Valley. Tropical moisture combined with the slow movement of the storms resulted in locally very heavy rain.

(KY-Z018) HENDERSON, (KY-Z019) DAVIESS

07/20/08 11:00 CST	0	Heat
07/21/08 17:00 CST	0	

Hot and humid conditions prevailed as a large upper-level ridge of high pressure covered the south central United States. On the 21st, the heat index peaked between 105 and 110 degrees for a few hours at Henderson and Owensboro. Heat indirectly contributed to the death of a 49-year-old man working in his garden. Numerous pre-existing medical problems were the primary cause of his death.

MISSOURI, Southeast

PERRY COUNTY --- BREWER [37.78, -89.92], LITHIUM [37.83, -89.88]

07/08/08 13:35 CST	6K	Thunderstorm Wind (EG 52 kt)
07/08/08 13:35 CST	0	Source: Newspaper

Numerous trees were blown down on Highway M between Brewer and Lithium. Some branches landed across the road. The tops of four cedar trees were broken at one residence.

STODDARD COUNTY --- BLOOMFIELD [36.90, -89.92]

07/08/08 14:00 CST	4K	Thunderstorm Wind (EG 52 kt)
07/08/08 14:00 CST	0	Source: Law Enforcement

A few trees were uprooted.

SCOTT COUNTY --- BLODGETT [37.00, -89.53]

07/08/08 14:45 CST	3K	Thunderstorm Wind (EG 50 kt)
07/08/08 14:45 CST	0	Source: Law Enforcement

Three trees were down on H Highway.

Isolated wind damage occurred with storms along and ahead of a weak surface cold front that moved southeast from Missouri to the Lower Ohio Valley. The storms formed during the heat and humidity of the afternoon, organizing into bow-shaped structures that produced strong winds.

BUTLER COUNTY --- 3.0 SW LONE HILL [36.67, -90.57]

07/29/08 14:45 CST	10K	Thunderstorm Wind (EG 50 kt)
07/29/08 14:45 CST	0	Source: Newspaper

Part of a 100-year-old oak tree fell on a pickup truck. A nearby peach tree was also damaged.

BOLLINGER COUNTY --- 2.0 E PATTON [37.50, -89.98]

07/29/08 15:55 CST	10K	Thunderstorm Wind (EG 56 kt)
07/29/08 15:55 CST	0	Source: Public

Two large trees were uprooted. Other large trees were damaged, with tops blown off and large limbs down. A 20-by-30 foot shed had one wall blown out. A 10-by-10 foot feed shack was destroyed. A piece of metal roofing was peeled off a residence.

A nearly stationary front extended from Arkansas northeast to southern Illinois. A couple of storms near this boundary produced microbursts.

CAPE GIRARDEAU COUNTY --- OAK RIDGE [37.50, -89.73]

07/30/08 19:00 CST	0	Heavy Rain
07/30/08 20:30 CST	0	Source: Trained Spotter

A total of three inches of rain fell in a thunderstorm. Two inches of that rain fell within an hour. Strong winds gusted from 40 to 50 mph.

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

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	07/30/08 19:25 CST		5K	Lightning
	07/30/08 19:25 CST		0	Source: Emergency Manager

Multiple houses were struck by lightning. About one third of the residents in the city were without power due to lightning strikes.

Scattered thunderstorms formed during the heat of the afternoon, aided by a weak surface trough that extended from northern Arkansas northeast across the Lower Ohio Valley. Tropical moisture combined with the slow movement of the storms resulted in locally very heavy rain. Some of the moisture was from the remnants of Hurricane Dolly.

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.

CAPE GIRARDEAU COUNTY --- 3.1 S EGYPT MILLS [37.35, -89.46], 4.0 SSE EGYPT MILLS [37.35, -89.44], 2.7 NE CAPE GIRARDEAU [37.33, -89.50], 3.2 NNE CAPE GIRARDEAU [37.34, -89.50]

07/30/08 04:00 CST	0	Flood (due to Heavy Rain)
07/31/08 23:59 CST	0	Source: River/Stream Gage

At the Cape Girardeau river gage, the Mississippi River rose just above flood stage. Minor flooding of low-lying fields occurred. The river continued to rise after month's end, cresting in August.

More heavy rain in the upper part of the Mississippi River Valley caused the river to rise above flood stage again.

(MO-Z109) BUTLER

07/21/08 12:00 CST	0	Heat
07/21/08 15:00 CST	0	

Hot and humid conditions prevailed as a large upper-level ridge of high pressure covered the south central United States. The heat index peaked around 105 degrees for a few hours at Poplar Bluff.

(MO-Z076) PERRY, (MO-Z086) BOLLINGER, (MO-Z087) CAPE GIRARDEAU, (MO-Z111) SCOTT

07/05/08 00:00 CST	0	Dense Fog
07/05/08 06:00 CST	0	

Widespread dense fog formed over parts of southeast Missouri as a result of clear skies, light winds, and abundant moisture near the surface. The widespread dense fog was north of a line from Greenville to Dexter to Sikeston. Visibility was below one-quarter mile at many locations.

STODDARD COUNTY --- DUDLEY [36.78, -90.10]

07/19/08 13:30 CST	80K	Thunderstorm Wind (EG 61 kt)
07/19/08 13:30 CST	0	Source: Newspaper

At a farm just off U.S. Highway 60 near Dudley, several outbuildings and grain bins sustained extensive damage. An empty grain bin was blown a short distance. Other grain bins were unroofed. The metal roof on a large equipment shed was blown apart. Debris was strewn across several acres on the south side of the damage area. Trucks and other farm equipment were damaged by falling debris.

An isolated severe storm occurred during the heat of the afternoon. A southwest wind flow of very warm and humid air fed the storm.