

Storm Data and Unusual Weather Phenomena - August 2008

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ILLINOIS, South				
ALEXANDER COUNTY --- THEBES [37.22, -89.47], 0.6 W THEBES JCT [37.20, -89.46], 0.2 W THEBES JCT [37.20, -89.45], 0.5 ESE THEBES [37.22, -89.46]				
	08/02/08 03:00 CST		0	Flood (due to Heavy Rain)
	08/05/08 14:00 CST		0	Source: River/Stream Gage
<p>Minor flooding of the Mississippi River occurred at Thebes. The river crested at 33.88 feet on the 4th. Flood stage there is 33 feet. Low-lying fields and woodlands near the river were flooded.</p> <p>Heavy rain in the upper part of the basin caused the Mississippi River to rise above flood stage.</p>				
(IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC				
	08/02/08 11:00 CST		0	Heat
	08/02/08 17:00 CST		0	
<p>Heat indices peaked near 105 degrees during the afternoon over the southern tip of Illinois. Actual air temperatures reached the mid 90's. A large and strong upper level high was building east from the Plains into the Mississippi Valley, contributing to the heat.</p>				
(IL-Z075) JEFFERSON, (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-Z092) ALEXANDER, (IL-Z093) PULASKI				
	08/05/08 13:00 CST		0	Heat
	08/05/08 16:00 CST		0	
<p>A large and strong high in the upper levels of the atmosphere stretched from the Tennessee Valley to the Plains. This feature contributed to hot and humid weather. Afternoon heat indices peaked near 105 degrees over parts of southern Illinois.</p>				
WHITE COUNTY --- MILL SHOALS [38.25, -88.35]				
	08/05/08 14:34 CST		0	Hail (1.75 in)
	08/05/08 14:34 CST		0	Source: Post Office
<p>Ping pong to golf ball size hail fell from a severe thunderstorm.</p>				
WHITE COUNTY --- CARMi [38.08, -88.17]				
	08/05/08 15:15 CST		0	Hail (1.50 in)
	08/05/08 15:22 CST		0	Source: Trained Spotter
<p>Hail ranged from the size of marbles to ping-pong balls. The large hail persisted for 5 to 10 minutes and covered the ground.</p> <p>A severe thunderstorm with very large hail formed during the heat of the afternoon. This storm moved southeast across White County. The storm formed in a very unstable atmosphere.</p>				
WAYNE COUNTY --- FAIRFIELD [38.38, -88.37]				
	08/05/08 19:30 CST		10K	Thunderstorm Wind (EG 50 kt)
	08/05/08 19:30 CST		0	Source: Newspaper
<p>A large tree fell on a bridge under construction, but the bridge was not damaged. A large tree limb fell on a mobile home, causing minor damage.</p>				
JEFFERSON COUNTY --- WOODLAWN [38.33, -89.03]				
	08/05/08 19:39 CST		0	Hail (0.75 in)
	08/05/08 19:39 CST		0	Source: Trained Spotter
WHITE COUNTY --- GRAYVILLE [38.27, -88.00]				
	08/05/08 19:55 CST		20K	Thunderstorm Wind (MG 77 kt)
	08/05/08 19:55 CST		0	Source: Trained Spotter
<p>A wind gust to 89 mph was measured by a co-operative observer. Large trees and a 300-foot radio communications tower were blown down. A car was damaged by a falling tree limb. Several utility lines were down.</p> <p>A complex of thunderstorms moved east-southeast from the St. Louis area across the Lower Wabash Valley. Locally strong winds occurred along the leading edge of the storms. The storms occurred in response to a cold front that moved southeast into a very</p>				

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unstable air mass. Northwesterly mid level winds increased to between 30 and 40 knots as a jet streak moved across northern Illinois. These mid level winds enhanced storm organization and intensity.

(IL-Z080) PERRY, (IL-Z084) JACKSON, (IL-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI

08/22/08 21:00 CST	0	Dense Fog
08/23/08 07:00 CST	0	

Widespread dense fog reduced visibility to one quarter mile or less. The dense fog was mostly west of Interstate 57. The dense fog formed over ground that was saturated from heavy rainfall the previous day.

INDIANA, Southwest

(IN-Z085) POSEY, (IN-Z086) VANDERBURGH, (IN-Z087) WARRICK, (IN-Z088) SPENCER

08/05/08 13:00 CST	0	Heat
08/05/08 16:00 CST	0	

A large and strong high in the upper levels of the atmosphere stretched from the Tennessee Valley to the Plains. This feature contributed to hot and humid weather. Afternoon heat indices peaked near 105 degrees over parts of southwest Indiana, mainly south of Interstate 64.

GIBSON COUNTY --- PRINCETON [38.35, -87.57]

08/05/08 20:30 CST	2K	Lightning
08/05/08 20:30 CST	0	Source: Newspaper

Lightning struck a house and started a small fire.

VANDERBURGH COUNTY --- EVANSVILLE [37.98, -87.55]

08/05/08 20:40 CST	50K	Thunderstorm Wind (MG 52 kt)
08/05/08 20:47 CST	0	Source: Trained Spotter

Numerous trees and power lines were down throughout Evansville. A spotter measured a wind gust to 60 mph. The highest wind gust at the Evansville airport was 51 mph. The strongest winds occurred just ahead of the leading edge of rain.

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

08/05/08 21:22 CST	0	Thunderstorm Wind (MG 51 kt)
08/05/08 21:22 CST	0	Source: Trained Spotter

A complex of thunderstorms moved east-southeast from the St. Louis area, passing across the Lower Wabash Valley and southwest Indiana. Locally strong winds occurred along the leading edge of the storms. The storms occurred in response to a cold front that moved southeast into a very unstable air mass. Northwesterly mid level winds increased to between 30 and 40 knots as a jet streak moved across northern Illinois. These mid level winds enhanced storm organization and intensity.

KENTUCKY, Southwest

(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

08/02/08 11:00 CST	0	Heat
08/02/08 17:00 CST	0	

Heat indices peaked near 105 degrees during the afternoon west of Kentucky Lake. Actual air temperatures reached the mid 90's. A large and strong upper level high was building east from the Plains into the Mississippi Valley, contributing to the heat.

(KY-Z001) FULTON, (KY-Z002) HICKMAN, (KY-Z003) CARLISLE, (KY-Z004) BALLARD, (KY-Z010) CRITTENDEN, (KY-Z011) LYON, (KY-Z012) TRIGG, (KY-Z013) CALDWELL, (KY-Z014) UNION, (KY-Z015) WEBSTER, (KY-Z016) HOPKINS, (KY-Z017) CHRISTIAN, (KY-Z018) HENDERSON, (KY-Z019) DAVIESS, (KY-Z020) MCLEAN, (KY-Z021) MUHLENBERG, (KY-Z022) TODD

08/05/08 13:00 CST	0	Heat
08/05/08 16:00 CST	0	

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A large and strong high in the upper levels of the atmosphere stretched from the Tennessee Valley to the Plains. This feature contributed to hot and humid weather. Afternoon heat indices peaked near 105 degrees over parts of western Kentucky.

MISSOURI, Southeast

CAPE GIRARDEAU COUNTY --- 1.2 ESE GULF JCT [37.26, -89.53], 1.5 ENE GULF JCT [37.27, -89.52], 1.0 SE CAPE GIRARDEAU [37.29, -89.52], 0.7 SSE CAPE GIRARDEAU [37.29, -89.52]

08/01/08 00:00 CST	0	Flood (due to Heavy Rain)
08/06/08 18:00 CST	0	Source: River/Stream Gage

Minor flooding of the Mississippi River occurred. At the Cape Girardeau gage, the river crested at 35.08 feet on the 4th. Flood stage there is 32 feet. Minor flooding of low-lying fields and woodlands occurred.

Heavy rain in the upper part of the basin caused the Mississippi River to rise above flood stage.

(MO-Z086) BOLLINGER, (MO-Z087) CAPE GIRARDEAU, (MO-Z100) WAYNE, (MO-Z107) CARTER, (MO-Z108) RIPLEY, (MO-Z109) BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID

08/02/08 11:00 CST	0	Heat
08/02/08 17:00 CST	0	

Heat indices peaked near 105 degrees during the afternoon over most of southeast Missouri. Actual air temperatures reached the mid 90's. A large and strong upper level high was building east from the Plains into the Mississippi Valley, contributing to the heat.

(MO-Z076) PERRY, (MO-Z086) BOLLINGER, (MO-Z100) WAYNE, (MO-Z107) CARTER, (MO-Z108) RIPLEY, (MO-Z109) BUTLER, (MO-Z110) STODDARD, (MO-Z114) NEW MADRID

08/04/08 13:00 CST	0	Heat
08/04/08 16:00 CST	0	

A large and strong high in the upper levels of the atmosphere was centered over the southern Plains. This feature brought hot and humid weather. Afternoon heat indices peaked near 105 degrees, and actual air temperatures reached the mid 90's.

(MO-Z076) PERRY, (MO-Z086) BOLLINGER, (MO-Z087) CAPE GIRARDEAU, (MO-Z108) RIPLEY, (MO-Z109) BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID

08/05/08 13:00 CST	0	Heat
08/05/08 16:00 CST	0	

A large and strong high in the upper levels of the atmosphere stretched from the Tennessee Valley to the Plains. This feature contributed to hot and humid weather. Afternoon heat indices peaked near 105 degrees over most of southeast Missouri.

SCOTT COUNTY --- BENTON [37.10, -89.57]

08/21/08 14:30 CST	50K	Lightning
08/21/08 14:30 CST	0	Source: Newspaper

Lightning struck the 911 communications center, damaging radio and telephone equipment.

Thunderstorms developed in a deep southerly wind flow of very warm and humid air.

CAPE GIRARDEAU COUNTY --- JACKSON [37.38, -89.67], CAPE GIRARDEAU [37.30, -89.53]

08/22/08 05:00 CST	0	Heavy Rain
08/22/08 11:00 CST	0	Source: Trained Spotter

Water was over the intersection of K Highway and U.S. Route 61. Other traffic problems were reported on some Cape Girardeau streets. A side street was covered with about 10 inches of water, but the street remained passable. In Cape Girardeau, a spotter measured 5.75 inches of rain in about 15 hours. Near Jackson, 2.82 inches of rain fell in six hours. The heavy rainfall was the result of showers and thunderstorms that trained over the county for several hours.

Thunderstorms developed in a southerly flow of very warm and unstable air. Weak upper level disturbances contributed to the heavy rainfall.

(MO-Z076) PERRY, (MO-Z086) BOLLINGER, (MO-Z087) CAPE GIRARDEAU, (MO-Z100) WAYNE, (MO-Z107) CARTER, (MO-Z108) RIPLEY, (MO-Z109)

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BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID	08/22/08 22:00 CST		0	Dense Fog
	08/23/08 08:00 CST		0	

Widespread dense fog reduced visibility to one quarter mile or less. The dense fog formed over ground that was saturated from heavy rainfall the previous day.