

Storm Data and Unusual Weather Phenomena - March 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ILLINOIS, South				
SALINE COUNTY --- HARRISBURG [37.73, -88.55]				
	03/11/10 02:17 CST	0		Hail (0.88 in)
	03/11/10 02:17 CST	0		Source: Unknown
HAMILTON COUNTY --- MC LEANSBORO [38.10, -88.53]				
	03/11/10 02:37 CST	0		Hail (0.75 in)
	03/11/10 02:37 CST	0		Source: Unknown
<p>Low pressure was centered over northeast Kansas, with a cold front trailing south-southeast across the eastern Plains. Ahead of this front, a south-southeast low level jet up to 50 knots brought warmer and more moist air into the Mid Mississippi Valley. The resulting environment was favorable for strong storms that produced some hail.</p>				
ALEXANDER COUNTY --- 2.2 ESE CAIRO [36.99, -89.14], 2.3 ESE CAIRO [36.99, -89.14], 1.1 E CAIRO [37.00, -89.16], 1.1 E CAIRO [37.00, -89.16]				
	03/17/10 06:00 CST	0		Flood (due to Heavy Rain / Snow Melt)
	03/31/10 23:59 CST	0		Source: River/Stream Gage
<p>Minor flooding of the Ohio River occurred at Cairo. At the Cairo river gage, where flood stage is 40 feet, the river crested at 45.44 feet on the 31st. Low-lying fields and woodlands near the river were flooded. Some flooding of riverside parks and river access roads occurred.</p>				
ALEXANDER COUNTY --- 0.8 SSE THEBES [37.21, -89.46], 0.7 SE THEBES [37.21, -89.46], 0.4 ESE THEBES [37.22, -89.46], 0.3 E THEBES [37.22, -89.47]				
	03/17/10 08:00 CST	0		Flood (due to Heavy Rain / Snow Melt)
	03/31/10 23:59 CST	0		Source: River/Stream Gage
<p>Moderate flooding of the Mississippi River occurred at Thebes. At the Thebes river gage, where flood stage is 33 feet, the river crested at 38.09 feet on the 31st. Flooding of low-lying fields and woodlands near the river was considerable. Some flooding of river access roads occurred in and around Gale and Thebes.</p>				
GALLATIN COUNTY --- SHAWNEETOWN [37.70, -88.13], 1.6 ENE SHAWNEETOWN [37.71, -88.10], 1.5 NE SHAWNEETOWN [37.71, -88.11], 0.5 N SHAWNEETOWN [37.71, -88.13]				
	03/18/10 08:00 CST	0		Flood (due to Heavy Rain / Snow Melt)
	03/26/10 16:00 CST	0		Source: River/Stream Gage
<p>Minor flooding of the Ohio River occurred at Shawneetown. At the Shawneetown river gage, where flood stage is 33 feet, the river crested at 36.64 feet on the 22nd. Low-lying fields and woodlands near the river were flooded. Some flooding of river access roads and a boat ramp occurred.</p>				
PULASKI COUNTY --- 2.2 SSE NEW GRAND CHAIN [37.22, -89.01], 1.5 ENE OLMSTED [37.19, -89.06], 1.5 NE OLMSTED [37.20, -89.06], 2.1 S NEW GRAND CHAIN [37.22, -89.02]				
	03/18/10 16:00 CST	0		Flood (due to Heavy Rain / Snow Melt)
	03/31/10 23:59 CST	0		Source: River/Stream Gage
<p>Minor flooding of the Ohio River occurred at Grand Chain. At the Grand Chain river gage, where flood stage is 42 feet, the river crested at 45.20 feet on the 23rd. Low-lying fields and woodlands near the river were flooded. Some flooding of river access roads occurred. The river remained well above flood stage through the end of the month, cresting a second time at 44.90 feet on the 31st.</p>				
JACKSON COUNTY --- 0.4 NNE MT CARBON [37.76, -89.33], 1.1 WSW MT CARBON [37.75, -89.35], 0.9 W MT CARBON [37.75, -89.35], 0.5 N MT CARBON [37.76, -89.33]				
	03/21/10 08:00 CST	0		Flood (due to Heavy Rain)
	03/31/10 23:59 CST	0		Source: River/Stream Gage
<p>Minor flooding of the Big Muddy River occurred at Murphysboro. At the Murphysboro river gage, where flood stage is 22 feet, the river crested at 25.60 feet on the 30th. Minor flooding of low-lying fields and woodlands near the river occurred. There was some flooding of river access roads and a park. Some houses were affected just downstream of Bridge Street in Murphysboro.</p>				
MASSAC COUNTY --- 0.9 ESE BROOKPORT [37.12, -88.61], 0.8 ESE BROOKPORT [37.11, -88.62], BROOKPORT [37.12, -88.63], 0.2 NE BROOKPORT [37.12, -88.63]				
	03/21/10 12:00 CST	0		Flood (due to Heavy Rain / Snow Melt)
	03/25/10 13:00 CST	0		Source: River/Stream Gage
<p>Minor flooding of the Ohio River occurred at Brookport. At the Brookport river gage, where flood stage is 37 feet, the river crested at 37.70 feet on the 21st. Low-lying fields and woodlands near the river were flooded. Some flooding of river access roads and parks occurred.</p>				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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FRANKLIN COUNTY --- 1.3 SSE ZEIGLER [37.88, -89.04], 2.0 WSW PLUMFIELD [37.87, -89.04], 1.2 WNW PLUMFIELD [37.89, -89.02], 1.4 ESE ZEIGLER [37.89, -89.03]

03/21/10 14:00 CST	0	Flood (due to Heavy Rain)
03/30/10 15:00 CST	0	Source: River/Stream Gage

Minor flooding of the Big Muddy River occurred at Plumfield. At the Plumfield river gage, where flood stage is 20 feet, the river crested at 20.53 feet on the 28th. Minor flooding of low-lying fields and woodlands near the river occurred.

A combination of snowmelt in upper portions of the Ohio and Mississippi Valleys and a series of storm systems mid to late month eventually led to mostly minor river flooding. The first storm system lifted out of the southern Plains on the 9th and moved northeast toward the Mid Atlantic on the 10th. A series of storm systems later in March produced saturated ground conditions that led to a continuation of minor flooding of rivers. A storm system lifted northeast between the 21st and 22nd, and widespread showers produced between one and two inches of rain. Another storm system moved east across the area on the 25th, touching off showers that produced generally one-half to one and a half inches. A final storm system passing south of the region brought up to another inch of rain on the 27th and 28th.

(IL-Z075) JEFFERSON, (IL-Z076) WAYNE, (IL-Z077) EDWARDS, (IL-Z078) WABASH, (IL-Z081) FRANKLIN, (IL-Z082) HAMILTON, (IL-Z083) WHITE, (IL-Z084) JACKSON, (IL-Z085) WILLIAMSON, (IL-Z086) SALINE, (IL-Z087) GALLATIN, (IL-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC

03/23/10 00:00 CST	0	Dense Fog
03/23/10 08:00 CST	0	

Visibility was at or below one-quarter mile across most of southern Illinois. Clearing skies, light winds, and moist ground set the stage for widespread dense fog. These conditions were associated with a ridge axis extending northward across the Lower Ohio Valley from a high pressure center over the Deep South.

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

03/25/10 12:30 CST	0	Heavy Rain
03/25/10 18:00 CST	0	Source: Trained Spotter

Minor street flooding was reported. Standing water filled yards and fields. Ditches were full.

WILLIAMSON COUNTY --- CORINTH [37.82, -88.78], PITTSBURG [37.77, -88.85]

03/25/10 13:00 CST	0	Heavy Rain
03/25/10 17:30 CST	0	Source: Trained Spotter

Water was over the road in several places. Crab Orchard Creek flooded a road about one to two miles southwest of Corinth.

(IL-Z078) WABASH

03/25/10 15:00 CST	50K	Strong Wind (MAX 38 kt)
03/25/10 20:00 CST	0	

A low pressure system over the northeast corner of Arkansas moved northeast across western Kentucky. A large area of moderate to heavy rain over southern Illinois caused some minor flooding. One to two inches of rain fell in several hours. Several hours of gusty north winds occurred as the low passed by. The strongest winds were in the Wabash Valley. Gusts up to 44 mph were measured at the Mount Carmel airport, and sustained winds were as high as 31 mph. Due to saturated ground that loosened root systems, a number of trees were uprooted. Downed trees and limbs brought down a number of power lines in Wabash County. Most power outages were restored within six hours. One tree fell across a pair of pickup trucks parked in a driveway in the city of Mount Carmel.

INDIANA, Southwest

WARRICK COUNTY --- 0.6 SSW NEWBURGH [37.94, -87.42], 0.8 SW NEWBURGH [37.94, -87.43], 0.6 WSW NEWBURGH [37.95, -87.43], 0.3 SSW NEWBURGH [37.95, -87.42]

03/17/10 08:00 CST	0	Flood (due to Heavy Rain / Snow Melt)
03/23/10 18:00 CST	0	Source: River/Stream Gage

Minor flooding of the Ohio River occurred at Newburgh. At the Newburgh river gage, where flood stage is 38 feet, the river crested at 41.20 feet on the 20th. Minor flooding of low-lying fields and woodlands occurred.

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POSEY COUNTY --- 1.1 NNE HOVEY [37.91, -87.92], 1.0 NE HOVEY [37.91, -87.92], 0.3 SSE MT VERNON [37.93, -87.90], 0.6 SW MT VERNON [37.92, -87.91]	03/18/10 11:00 CST		0	Flood (due to Heavy Rain / Snow Melt)
	03/24/10 09:00 CST		0	Source: River/Stream Gage

Minor flooding of the Ohio River occurred at Mount Vernon. At the Mount Vernon river gage, where flood stage is 35 feet, the river crested at 37.90 feet on the 20th. Minor flooding of low-lying fields and woodlands occurred.

A combination of snowmelt in upper portions of the Ohio Valley and a storm system about mid-month eventually led to minor flooding of the Ohio River. The storm system lifted out of the southern Plains on the 9th and moved northeast toward the Mid Atlantic on the 10th.

(IN-Z081) GIBSON, (IN-Z082) PIKE, (IN-Z085) POSEY, (IN-Z086) VANDERBURGH, (IN-Z087) WARRICK, (IN-Z088) SPENCER	03/23/10 03:00 CST		0	Dense Fog
	03/23/10 08:00 CST		0	

Visibility was at or below one-quarter mile across southwest Indiana. Clearing skies, light winds, and moist ground set the stage for widespread dense fog. These conditions were associated with a ridge axis extending northward across the Lower Ohio Valley from a high pressure center over the Deep South.

PIKE COUNTY --- 0.7 NNW PETERSBURG [38.51, -87.28], 1.7 NNE PETERSBURG [38.52, -87.26], 1.7 NNE PETERSBURG [38.52, -87.27], 0.9 NNW PETERSBURG [38.51, -87.29]	03/27/10 12:00 EST		0	Flood (due to Heavy Rain)
	03/31/10 23:59 EST		0	Source: River/Stream Gage

Minor flooding occurred along the White River at Petersburg. At the Petersburg river gage, where flood stage is 16 feet, the river crested at 18.07 feet on the 30th. Floodwaters covered low-lying fields and woodlands. Flooding affected low oil fields and closed a few local roads.

GIBSON COUNTY --- 1.9 NNW HAZLETON [38.51, -87.54], 1.0 NNW HAZLETON [38.49, -87.54], 1.0 NW HAZLETON [38.49, -87.54], 2.0 NNW HAZLETON [38.51, -87.55]	03/27/10 16:00 CST		0	Flood (due to Heavy Rain)
	03/31/10 23:59 CST		0	Source: River/Stream Gage

Minor flooding occurred along the White River at Hazleton. At the Hazleton river gage, where flood stage is 16 feet, the river crested at 18.0 feet on the 31st. Floodwaters covered low-lying fields and woodlands. A few rural roads were flooded, along with some oil wells.

A series of storm systems during the middle to latter part of the month led to minor river flooding. The first storm system lifted out of the southern Plains on the 9th and moved northeast toward the Mid-Atlantic on the 10th. A series of storm systems later in March produced saturated ground conditions that led to minor flooding. A storm system lifted northeast between the 21st and 22nd, when widespread showers produced between one and two inches of rain. Another storm system moved east across the area on the 25th, touching off showers that produced generally one-half to one and a half inches. A final storm system passing south of the region brought up to another inch of rain on the 27th and 28th.

KENTUCKY, Southwest

MARSHALL COUNTY --- HARDIN [36.77, -88.30]	03/12/10 13:39 CST		0	Hail (0.75 in)
	03/12/10 13:39 CST		0	Source: Public

Very cold temperatures aloft favored the development of showers and isolated thunderstorms that produced hail up to the size of dimes. A very cold 500 mb low digging southeast across Missouri was responsible for the storms.

(KY-Z007) LIVINGSTON	03/19/10 12:30 CST		0	Wildfire
	03/19/10 16:00 CST		0	

Low humidity, strong winds, and dry conditions were blamed for a large field fire near the community of Hampton in Livingston County. The fire burned about 150 acres before dozers contained it.

UNION COUNTY --- 0.8 WNW UNIONTOWN [37.77, -87.94], 1.6 W UNIONTOWN [37.77, -87.96], 1.4 W UNIONTOWN [37.77, -87.96], 0.7 W UNIONTOWN [37.77, -87.94]				
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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/20/10 16:00 CST		0	Flood (due to Heavy Rain / Snow Melt)
	03/24/10 19:00 CST		0	Source: River/Stream Gage

Minor flooding occurred on the Ohio River at Uniontown. At the J.T. Myers Lock and Dam, where flood stage is 37 feet, the river crested at 38.21 feet on the 22nd. Minor flooding of low-lying fields and a few farm access roads occurred.

MARSHALL COUNTY --- 3.4 WNW SCALE [36.91, -88.41], 3.2 ESE ELVA [36.91, -88.42], 3.3 W SCALE [36.90, -88.41], 3.2 WNW SCALE [36.91, -88.41]

	03/22/10 09:00 CST		4K	Flood (due to Heavy Rain)
	03/24/10 12:00 CST		0	Source: Newspaper

Flooding of the Clarks River closed a section of rural road a few miles northwest of Benton. Although the road was blocked by a locked gate, a motorist managed to open the gate. The motorist proceeded to park on the side of the road to launch a kayak in the river. A second motorist drove past the open gate and stalled out in the river. The county rescue squad was called out with its swift water rescue boat, which turned out to not be needed. Three teenagers and a puppy were brought to shore with a four-wheel drive vehicle and safety ropes. Water was pouring into the passenger side of the car, which was about 50 yards from dry land. Dispatchers instructed the teenagers to remain in the vehicle until help arrived. The car was towed away with water damage.

A combination of snowmelt in upper portions of the Ohio Valley and a storm system about mid-month eventually led to minor flooding of the Ohio River. The storm system lifted out of the southern Plains on the 9th and moved northeast toward the Mid Atlantic on the 10th. A second storm system lifted northeast between the 21st and 22nd, bringing widespread showers that produced between one and two inches of rain. This second system caused flooding of the Clarks River.

(KY-Z001) FULTON, (KY-Z002) HICKMAN, (KY-Z003) CARLISLE, (KY-Z004) BALLARD, (KY-Z005) MCCRACKEN, (KY-Z006) GRAVES, (KY-Z007) LIVINGSTON, (KY-Z008) MARSHALL, (KY-Z009) CALLOWAY, (KY-Z010) CRITTENDEN, (KY-Z011) LYON, (KY-Z012) TRIGG, (KY-Z013) CALDWELL, (KY-Z014) UNION, (KY-Z015) WEBSTER, (KY-Z016) HOPKINS, (KY-Z018) HENDERSON, (KY-Z019) DAVIESS, (KY-Z020) MCLEAN, (KY-Z021) MUHLENBERG

	03/23/10 00:00 CST		0	Dense Fog
	03/23/10 08:00 CST		0	

Visibility was at or below one-quarter mile across most of western Kentucky except the Hopkinsville area. A spotter reported visibility as low as two car lengths on Interstate 24 at exit 11. Another spotter reported visibility less than 100 feet along the Pennyriple Parkway at Madisonville. Clearing skies, light winds, and moist ground set the stage for widespread dense fog. These conditions were associated with a ridge axis extending northward across the Lower Ohio Valley from a high pressure center over the Deep South.

MISSOURI, Southeast

(MO-Z108) RIPLEY

	03/03/10 13:00 CST		10K	Wildfire
	03/03/10 16:00 CST		0	

Low humidity, strong winds, and dry conditions were blamed for a rash of fires across the county. More than twenty fires were reported in about a weeklong period. The largest fire consumed about 200 acres of pasture off Highway 21 South. The fire threatened cattle and jumped the highway, causing hazardous driving conditions.

BUTLER COUNTY --- 5.0 NW LONE HILL [36.75, -90.59]

	03/10/10 21:29 CST		0.10M	Hail (1.50 in)
	03/10/10 21:29 CST		0	Source: Newspaper

Ping-pong ball size hail caused major damage to vehicles and roofs. A pickup truck received more than 100 dents in the hood. Shingles were damaged on houses. The hail covered the ground one inch deep, and some piles were three or four inches deep. Hail damage to one SUV was estimated at 4,200 dollars.

BUTLER COUNTY --- 3.0 SE HENDRICKSON [36.87, -90.44]

	03/10/10 21:52 CST		10K	Thunderstorm Wind (EG 52 kt)
	03/10/10 21:52 CST		0	Source: Newspaper

Tree limbs were blown down on fences along Route O.

RIPLEY COUNTY --- 2.0 SSW OWENMONT [36.59, -90.79], 1.1 SSE OWENMONT [36.61, -90.77]

	03/10/10 23:30 CST		0.20M	Tornado (EF1, L: 1.47 mi , W: 180 yd)
	03/10/10 23:32 CST	1	0	Source: NWS Storm Survey

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>The tornado touched down about two miles southeast of Doniphan on the south side of Highway 142, then moved northeast for about a mile and a half. One occupant of a 16-foot camper trailer sustained minor injuries and was taken to the hospital when the camper overturned. A rental business building was severely damaged. Insulation, some metal roofing, and wall panels were blown up to a few hundred yards away. Several barns were destroyed. About a dozen trees were blown down. About 400 utility customers lost power for several hours when a pole blew down. Peak winds were estimated near 100 mph. The tornado damage then transitioned to straight-line wind damage east of Doniphan.</p>				

RIPLEY COUNTY --- 1.1 SSE OWENMONT [36.61, -90.77], 0.2 N PULASKI [36.62, -90.75]				
	03/10/10 23:32 CST		3K	Thunderstorm Wind (EG 61 kt)
	03/10/10 23:35 CST		0	Source: NWS Storm Survey

Tornadic wind damage transitioned to straight-line winds several miles east of Doniphan. Mostly tree damage was observed in this rural area. The path width of the straight-line winds was about one-half mile. Peak winds were estimated near 70 mph.

Low pressure was centered over northeast Kansas, with a cold front trailing south-southeast across the eastern Plains. Ahead of this front, a south-southeast low level jet around 50 knots brought warmer and more moist air into the Mid Mississippi Valley. Thunderstorms gradually evolved into a loosely organized QLCS (quasi-linear convective system) across southeast Missouri. The system moved generally eastward at 35 mph. Given the presence of strong low level shear along the low level jet axis, the environment was favorable for the embedded supercell that produced an isolated tornado.

PERRY COUNTY --- 2.1 NW MENFRO [37.79, -89.76], 2.2 WNW MENFRO [37.78, -89.77], 1.5 WNW MENFRO [37.78, -89.75], 3.6 NNE MENFRO [37.82, -89.71], 3.3 E BELGIQUE [37.83, -89.72]				
	03/15/10 06:00 CST		0	Flood (due to Heavy Rain / Snow Melt)
	03/31/10 23:59 CST		0	Source: Newspaper

Route E was closed between County Road 322 and County Road 354 due to backwater flooding from the Mississippi River.

CAPE GIRARDEAU COUNTY --- 1.2 SE GULF JCT [37.26, -89.53], 1.6 ESE GULF JCT [37.26, -89.52], 1.0 SE CAPE GIRARDEAU [37.29, -89.52], 1.0 SSE CAPE GIRARDEAU [37.29, -89.53]				
	03/15/10 08:00 CST		0	Flood (due to Heavy Rain / Snow Melt)
	03/31/10 23:59 CST		0	Source: River/Stream Gage

Moderate flooding of the Mississippi River occurred at Cape Girardeau. At the Cape Girardeau river gage, where flood stage is 32 feet, the river crested at 38.57 feet on the 31st. A couple of flood gates were closed in the floodwall in Cape Girardeau. A considerable amount of low-lying bottomland was flooded. Riverside access roads and boat ramps outside of flood protection systems were flooded.

A combination of snowmelt in upper portions of the Mississippi Valley and a series of storm systems mid to late month led to moderate river flooding. The first storm system lifted out of the southern Plains on the 9th and moved northeast toward the Mid Atlantic on the 10th. A series of storm systems later in March produced saturated ground conditions that led to a continuation of river flooding. A storm system lifted northeast between the 21st and 22nd, and widespread showers produced between one and two inches of rain. Another storm system moved east across the area on the 25th, touching off showers that produced generally one-half to one and a half inches. A final storm system passing south of the region brought up to another inch of rain on the 27th and 28th.

(MO-Z076) PERRY, (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				
	03/23/10 05:00 CST		0	Dense Fog
	03/23/10 08:00 CST		0	

Visibility was at or below one-quarter mile across southeast Missouri. At least a couple of school districts cancelled classes or delayed opening by one hour, including New Madrid schools. An auto accident in Cape Girardeau County was blamed on the fog. A vehicle travelling on County Road 316 struck a utility pole, causing the road to be closed. Nobody was injured. Clearing skies, light winds, and moist ground set the stage for widespread dense fog. These conditions were associated with a ridge axis extending northward across the Lower Ohio Valley from a high pressure center over the Deep South.