

## Storm Data and Unusual Weather Phenomena - February 2016

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

<b>ALEXANDER COUNTY --- 2.6 ESE CAIRO [36.98, -89.14], 2.6 ESE CAIRO [36.99, -89.14], 1.0 ENE CAIRO [37.01, -89.16], 1.0 E CAIRO [37.00, -89.16]</b>				
	02/07/16 13:00 CST		0	Flood (due to Heavy Rain)
	02/12/16 00:10 CST		0	Source: River/Stream Gage

Minor flooding of the Ohio River inundated some low-lying fields and woodlands along the river.

<b>GALLATIN COUNTY --- SHAWNEETOWN [37.70, -88.13], 2.8 NNE SALINE MINES [37.66, -88.17], 3.0 NNE SALINE MINES [37.66, -88.16], 0.6 ENE SHAWNEETOWN [37.70, -88.12]</b>				
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	02/07/16 23:00 CST		0	Flood (due to Heavy Rain)
	02/10/16 17:00 CST		0	Source: River/Stream Gage

Minor flooding of the Ohio River inundated some low-lying woods and fields along the river.

During the first few days of the month, a cold front stalled to the south of the Ohio Valley and then lifted back north. A strong low pressure system then moved northeast across the Plains, dragging a cold front east across the Lower Ohio Valley. The rainfall associated with these frontal passages caused minor flooding on parts of the Ohio River.

<b>(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-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC</b>				
	02/14/16 07:00 CST		0	Winter Weather
	02/14/16 14:00 CST		0	

One to three inches of snow fell across most of southern Illinois. From the Carbondale area east and south to the Ohio River, the snow fell heavily for about an hour. Visibility was reduced to about one-quarter mile. Mainly south of the Marion/Carbondale area, the snow changed to light freezing rain before ending. Ice accumulations were less than a tenth of an inch. Roads were slick and very hazardous. In one Illinois State Police district, troopers responded to two dozen reports of vehicles sliding off the road. The precipitation was caused by a strong southerly flow of moist air on the back side of a high pressure system over the Appalachian Mountains. Abundant low-level moisture and warmer air was drawn northward over initially cold air at the surface. A strong but compact 500 mb shortwave over the central Plains enhanced precipitation rates.

<b>(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-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC</b>				
	02/15/16 07:00 CST		0	Dense Fog
	02/15/16 11:00 CST		0	

Widespread dense fog blanketed southern Illinois during the morning hours. Visibility was reduced to one-quarter mile or less. The dense fog occurred under a weak surface high to the north of a stationary front over the Tennessee Valley.

<b>(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-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC</b>				
	02/16/16 01:00 CST		0	Dense Fog
	02/16/16 09:00 CST		0	

Widespread dense fog blanketed southern Illinois during the early morning hours. Visibility was one-quarter mile or less. The dense fog occurred under a narrow ridge of high pressure that extended from the central Gulf coast northward to the Wabash River Valley. Light winds and moist ground from recent rain and snowmelt set the stage for the fog.

<b>(IL-Z084) JACKSON, (IL-Z085) WILLIAMSON, (IL-Z086) SALINE, (IL-Z087) GALLATIN, (IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z091) HARDIN</b>				
	02/16/16 10:00 CST		0	Winter Weather
	02/16/16 16:00 CST		0	

From one to two inches of heavy wet snow fell across parts of southern Illinois. The accumulating snow fell in a narrow band from Carbondale and Marion east across Harrisburg to the Ohio River. Northern parts of Pope and Johnson Counties also received slushy accumulations of up to two inches. Moderate snow reduced visibility to one-half mile for a few hours. Although temperatures were slightly above the freezing point, the snow fell heavily enough to coat roadways. Roads were reported to be slushy and hazardous in some places. The precipitation occurred ahead of a compact 500 mb shortwave that moved southeast from the central Plains across the Mississippi Valley. Surface winds were southeast ahead of the low pressure system, bringing milder air into parts of southern Illinois.

## Storm Data and Unusual Weather Phenomena - February 2016

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However, temperatures aloft were quite cold. Where precipitation rates were heavy enough, the precipitation fell as snow.

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(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-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

02/19/16 06:00 CST			32K	Strong Wind (MAX 49 kt)
02/19/16 13:00 CST			0	

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(IL-Z084) JACKSON

02/19/16 06:00 CST			1K	High Wind (MAX 52 kt)
02/19/16 13:00 CST			0	

Strong south to southwest winds gusting up to 60 mph buffeted southern Illinois. The strongest measured wind gust was 60 mph at the Carbondale airport. Other measured peak gusts included 56 mph at the Carmi airport, 52 mph at the Marion airport, 49 mph at the Harrisburg airport, and 47 mph at the fire weather station in the Crab Orchard National Wildlife Refuge near Marion. In Saline County, a transformer and power lines were blown down at Raleigh. The cause of the strong winds was a strong pressure gradient between low pressure over the upper Mississippi Valley and high pressure over the Eastern seaboard.

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(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-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC

02/20/16 02:00 CST			0	Dense Fog
02/20/16 08:00 CST			0	

Dense fog blanketed southern Illinois during the early morning hours. Visibility was reduced to one-quarter mile or less. The dense fog occurred in a light southerly flow of moist air around high pressure centered off the Carolina coast.

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(IL-Z075) JEFFERSON, (IL-Z080) PERRY, (IL-Z084) JACKSON

02/24/16 07:00 CST			90K	Winter Storm
02/24/16 14:00 CST			0	

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(IL-Z076) WAYNE, (IL-Z081) FRANKLIN, (IL-Z082) HAMILTON, (IL-Z085) WILLIAMSON, (IL-Z088) UNION

02/24/16 07:00 CST			0	Winter Weather
02/24/16 15:00 CST			0	

A combination of heavy wet snow and strong winds during the morning hours produced major impacts in parts of southern Illinois. About 4 inches of heavy wet snow fell north and west of a line from Mount Vernon to Murphysboro, including most of Perry County. The highest impacts were in Perry and Jefferson Counties, where scattered power outages occurred. More than 3,000 people lost power in Jefferson County alone. A church in Mount Vernon opened as a shelter for those without power or heat. Sustained north winds ranged from 20 to 30 mph, with gusts up to 40 mph. The peak wind gust at the Carbondale airport was 40 mph. A few trees were uprooted in Perry County, causing spotty power outages in Du Quoin and Pinckneyville. To the southeast, from 1 to 3 inches of snow fell as far southeast as a line from Fairfield to Marion to Anna. The snow fell heavily for a few hours, reducing visibility as low as one-quarter mile at the Carbondale airport. Roads were very slick and hazardous. Dozens of cars slid off roads in Jefferson County alone. Temperatures were from 32 to 34 degrees, which resulted in a heavy, wet snowfall. Specific snowfall reports included: 4 inches at Pinckneyville, 4 inches on the Jackson/Randolph County line near Campbell Hill, 3.5 inches at Dix (just north of Mount Vernon), 2 inches at Mount Vernon, 2 to 3 inches at Marion, and 1.5 inches at Anna (in Union County). This heavy precipitation event was caused by a couple of weak surface lows that consolidated into a strong low pressure center over western Kentucky. At 500 mb, the phasing of a northern stream shortwave over the northern Plains with a moist southern stream shortwave over Texas resulted in a deep low over the Lower Ohio Valley. North and west of the low track, rain transitioned to snow very late at night and continued through the morning.

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ALEXANDER COUNTY --- 2.6 ESE CAIRO [36.98, -89.14], 2.6 ESE CAIRO [36.99, -89.14], 1.1 E CAIRO [37.00, -89.16], 1.0 E CAIRO [37.00, -89.16]

02/25/16 17:00 CST			0	Flood (due to Heavy Rain)
02/29/16 23:59 CST			0	Source: River/Stream Gage

Minor flooding occurred along the Ohio River. There was flooding of low-lying bottomland woods and fields. The river continued rising into March.

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PULASKI COUNTY --- OLMSTED [37.18, -89.08], 2.2 NE MOUND CITY [37.11, -89.15], 2.2 SSW AMERICA [37.10, -89.13], 2.3 SE LEVINGS [37.20, -89.04]

02/25/16 17:00 CST			0	Flood (due to Heavy Rain)
02/29/16 23:59 CST			0	Source: River/Stream Gage

Minor flooding occurred along the Ohio River. There was flooding of low-lying bottomland woods and fields. The river continued rising into March.

## Storm Data and Unusual Weather Phenomena - February 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>MASSAC COUNTY --- BROOKPORT [37.12, -88.63], 1.3 SE METROPOLIS [37.14, -88.71], 1.2 ESE METROPOLIS [37.15, -88.71], 0.7 NW BROOKPORT [37.13, -88.64]</b>				

02/25/16 19:00 CST	0	Flood (due to Heavy Rain)
02/29/16 23:59 CST	0	Source: River/Stream Gage

Minor flooding occurred along the Ohio River. Small portions of Fort Massac State Park were flooded. There was flooding of low-lying bottomland woods and fields. The river continued rising into March.

<b>GALLATIN COUNTY --- SHAWNEETOWN [37.70, -88.13], 2.4 NNE SALINE MINES [37.65, -88.17], 2.9 NNE SALINE MINES [37.66, -88.16], 0.3 SSE SHAWNEETOWN [37.70, -88.13]</b>				
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02/26/16 02:00 CST	0	Flood (due to Heavy Rain)
02/29/16 23:59 CST	0	Source: River/Stream Gage

Minor flooding occurred along the Ohio River. Some low-lying bottomland woods and fields were inundated. The river continued rising into March.

<b>WHITE COUNTY --- CARMi [38.08, -88.17], 1.8 ENE BROWNSVILLE [38.04, -88.22], 2.4 N HERALD [38.00, -88.18], 1.6 ESE CARMi MUNI ARPT [38.09, -88.12], 0.7 E CARMi MUNI ARPT [38.10, -88.14]</b>				
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02/27/16 21:00 CST	0	Flood (due to Heavy Rain)
02/29/16 23:59 CST	0	Source: River/Stream Gage

Minor flooding occurred along the Little Wabash River. Some low-lying fields were flooded. The river continued rising into early March.

**Between the 20th and the 25th, a quasi-stationary front sagged south across the Lower Ohio Valley. It then lifted back north as an area of low pressure developed on the front and moved northeast. Widespread showers with moderate to heavy rain fell during this time period. As the cold front moved through on the 24th, enough cold air wrapped into the system to change the rain to snow in some areas. Liquid precipitation during this period ranged between 1 and 3 inches. The rain and melting snow brought the Ohio and Little Wabash rivers above flood stage by the end of the month.**

<b>(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-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC</b>				
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02/28/16 12:00 CST	37K	Strong Wind (MAX 46 kt)
02/28/16 15:00 CST	0	

A strong pressure gradient between an approaching cold front to the west and high pressure over the southeast U.S. produced strong southwest winds. The highest measured peak wind gust was 53 mph at the Harrisburg airport. Other strong measured wind gusts at airport locations included: 50 mph at Carmi, 48 mph at Carbondale, 46 mph at Metropolis, and 45 mph at Marion. There was some isolated damage to utility poles and roofs. In West Frankfort, several power poles were broken. In the community of Crossville in White County, shingles were blown off a roof and there was a power outage. In Gallatin County, a trained spotter near Junction estimated wind gusts to 50 mph were breaking tree limbs.

### INDIANA, Southwest

<b>VANDERBURGH COUNTY --- 0.9 NNE EVANSVILLE [37.99, -87.54], 0.5 S HARWOOD [37.99, -87.58], 1.5 WSW EVANSVILLE [37.97, -87.58], 0.8 SE EVANSVILLE [37.97, -87.54]</b>				
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02/02/16 18:43 CST	20K	Flash Flood (due to Heavy Rain)
02/02/16 20:30 CST	0	Source: Emergency Manager

Many roads were impassable. A foot of water was reported at one city intersection on the west side of Evansville, where at least four cars became stuck in floodwaters. A car traveling eastbound on the Lloyd Expressway was stuck in high water near the exit ramp for U.S. Highway 41 South. Another vehicle was stuck in high water on a road adjacent to the Lloyd Expressway on the west side of Evansville. Sewer hole covers were displaced by the water. A trained spotter on the east side of Evansville measured two inches of rain. Most of this rain fell in a two-hour timeframe as a squall line slowed down over the city. A wind gust to 52 mph was measured at the Evansville airport under the squall line.

**A squall line developed ahead of a cold front as it crossed the Mississippi River. The cold front extended southward from the triple-point of an occluded low pressure system. A strong southerly wind flow around 50 knots at 850 mb brought unseasonably moist air north from the Gulf of Mexico. At 500 mb, a strong closed low over western Kansas moved northeast across the central Plains. This low provided strong upper-level forcing for ascent. As the line of convection slowed its eastward progress in the deep southerly flow, locally heavy rainfall resulted in some urban flash flooding.**

<b>(IN-Z081) GIBSON, (IN-Z082) PIKE, (IN-Z085) POSEY, (IN-Z086) VANDERBURGH, (IN-Z087) WARRICK, (IN-Z088) SPENCER</b>				
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## Storm Data and Unusual Weather Phenomena - February 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	02/14/16 10:00 CST		0	Winter Weather
	02/14/16 17:00 CST		0	

An average of 1 to 2 inches of snow fell across southwest Indiana. The snow fell in a rather short amount of time. There was even a brief period of heavy snow at the Evansville airport, when visibility was reduced to one-quarter mile. Some sleet and freezing rain was mixed with the snow at times. Roads were slick and hazardous. Several vehicles slid off roads in the Evansville area. The precipitation was caused by a strong southerly flow of moist air on the back side of a high pressure system over the Appalachian Mountains. Abundant low-level moisture and warmer air was drawn northward over initially cold air at the surface. A strong but compact 500 mb shortwave over the central Plains enhanced precipitation rates.

**(IN-Z081) GIBSON, (IN-Z082) PIKE, (IN-Z085) POSEY, (IN-Z086) VANDERBURGH, (IN-Z087) WARRICK, (IN-Z088) SPENCER**

02/15/16 05:00 CST	0	Dense Fog
02/15/16 19:00 CST	0	

Widespread dense fog blanketed southwest Indiana during the morning hours. Visibility was reduced to one-quarter mile or less. The dense fog occurred under a weak surface high to the north of a stationary front over the Tennessee Valley. The dense fog lingered for the entire day over the Spencer County area.

**(IN-Z081) GIBSON, (IN-Z082) PIKE, (IN-Z085) POSEY, (IN-Z086) VANDERBURGH, (IN-Z087) WARRICK, (IN-Z088) SPENCER**

02/16/16 00:00 CST	0	Dense Fog
02/16/16 09:00 CST	0	

Widespread dense fog blanketed southwest Indiana during the early morning hours. Visibility was one-quarter mile or less. The dense fog occurred under a narrow ridge of high pressure that extended from the central Gulf coast northward to the Wabash River Valley. Light winds and moist ground from recent rain and snowmelt set the stage for the fog.

**(IN-Z081) GIBSON, (IN-Z082) PIKE, (IN-Z085) POSEY, (IN-Z086) VANDERBURGH, (IN-Z087) WARRICK, (IN-Z088) SPENCER**

02/19/16 09:00 CST	6K	Strong Wind (MAX 43 kt)
02/19/16 14:00 CST	0	

Strong south to southwest winds gusting to around 50 mph buffeted southwest Indiana. The strongest measured wind gust was 49 mph at the Evansville airport. A sustained wind of 39 mph was measured there. The cause of the strong winds was a strong pressure gradient between low pressure over the upper Mississippi Valley and high pressure over the Eastern seaboard.

**(IN-Z081) GIBSON, (IN-Z082) PIKE, (IN-Z085) POSEY, (IN-Z086) VANDERBURGH, (IN-Z087) WARRICK, (IN-Z088) SPENCER**

02/20/16 04:00 CST	0	Dense Fog
02/20/16 08:00 CST	0	

Dense fog blanketed southwest Indiana during the early morning hours. Visibility was reduced to one-quarter mile or less. The dense fog occurred in a light southerly flow of moist air around high pressure centered off the Carolina coast.

**PIKE COUNTY --- 2.2 NW BOWMAN [38.52, -87.38], 1.6 W BOWMAN [38.50, -87.38], 2.3 WNW IVY [38.52, -87.16], 3.6 N ALGIERS [38.53, -87.17], 4.5 NE PETERSBURG [38.54, -87.22]**

02/25/16 03:00 EST	0	Flood (due to Heavy Rain)
02/29/16 23:59 EST	0	Source: River/Stream Gage

Minor flooding occurred on the White River. Agricultural bottomlands were underwater.

About a dozen county roads were flooded, including 750N, 600N, 1000E, 250W, 400W, 675N, 700N, and 1000W. The river remained above flood stage into early March.

**WARRICK COUNTY --- 1.9 ESE NEWBURGH [37.94, -87.39], 2.2 WSW YANKEETOWN [37.91, -87.34], 2.0 W YANKEETOWN [37.92, -87.34], 2.7 ESE NEWBURGH [37.93, -87.37]**

02/25/16 09:00 CST	0	Flood (due to Heavy Rain)
02/29/16 23:59 CST	0	Source: River/Stream Gage

Minor flooding occurred along the Ohio River. Some low-lying fields and woods in the bottomlands were underwater. The river continued rising into early March.

**GIBSON COUNTY --- 1.1 NNW HAZLETON [38.49, -87.54], 1.2 N GIRO [38.52, -87.47], 0.1 WSW GIRO [38.50, -87.47], 1.7 WSW GIRO [38.49, -87.50]**

02/25/16 22:00 CST	0	Flood (due to Heavy Rain)
02/29/16 23:59 CST	0	Source: River/Stream Gage

## Storm Data and Unusual Weather Phenomena - February 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Minor flooding occurred along the White River. Bottomland woods and fields were underwater. Floodwaters covered the Hazleton softball field. A few low rural roads were underwater and impassable. Low-lying oil fields were flooded. The river remained above flood stage into early March.

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**POSEY COUNTY --- 0.8 SW HOVEY [37.89, -87.94], 0.4 SSE HOVEY [37.89, -87.93], 0.4 S MT VERNON [37.92, -87.90], 0.5 SW MT VERNON [37.93, -87.91]**

	02/26/16 03:00 CST		0	Flood (due to Heavy Rain)
	02/29/16 23:59 CST		0	Source: River/Stream Gage

Minor flooding occurred along the Ohio River. Some low-lying fields and woods in the bottomlands were underwater. The river continued rising into early March.

**Between the 20th and the 25th, a quasi-stationary front sagged south across the Lower Ohio Valley. It then lifted back north as an area of low pressure developed on the front and moved northeast. Widespread showers with moderate to heavy rain fell during this time period. Precipitation during this period ranged between 1 and 3 inches. The rain brought the Ohio and White Rivers above flood stage by the end of the month.**

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**(IN-Z081) GIBSON, (IN-Z082) PIKE, (IN-Z085) POSEY, (IN-Z086) VANDERBURGH, (IN-Z087) WARRICK, (IN-Z088) SPENCER**

	02/28/16 12:00 CST		6K	Strong Wind (MAX 39 kt)
	02/28/16 15:00 CST		0	

**A strong pressure gradient between an approaching cold front to the west and high pressure over the southeast U.S. produced strong southwest winds. Peak wind gusts were right around 45 mph.**

### KENTUCKY, Southwest

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**CALLOWAY COUNTY --- ALMO [36.70, -88.27], HAZEL [36.50, -88.32]**

	02/02/16 12:00 CST		0	Heavy Rain
	02/02/16 20:00 CST		0	Source: Public

Water was over numerous back roads on the south side of Calloway County. Most of these roads were passable. A trained spotter about 8 miles northeast of Murray measured 0.8 inches in 30 minutes. The daily rainfall total at the Kentucky mesonet site near Murray was 1.46 inches.

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**CHRISTIAN COUNTY --- 0.4 NW HOPKINSVILLE [36.85, -87.49], 1.4 S HOPKINSVILLE [36.83, -87.48], 0.3 SSW HOPKINSVILLE ARPT [36.85, -87.45], 1.5 NE CASKY [36.83, -87.41], 3.2 SW HONEY GROVE [36.84, -87.34], 3.8 NE CASKY [36.86, -87.38], 0.5 N HOPKINSVILLE ARPT [36.86, -87.45]**

	02/02/16 22:30 CST		0	Flood (due to Heavy Rain)
	02/03/16 07:45 CST		0	Source: River/Stream Gage

Minor to moderate flooding of the south fork of the Little River occurred. At the river gage at the Highway 68/80 bridge, the river crested at 17.49 feet shortly after midnight. Flood stage there is 15 feet. Some streets were flooded, including one side street that was closed. Low-lying farmland was inundated. Areas affected by flooding extended downstream past the Highway 68 bypass into the southern part of Hopkinsville. The Kentucky mesonet site several miles north of Hopkinsville measured 1.69 inches of rain on the 2nd.

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**MUHLENBERG COUNTY --- PARADISE [37.27, -86.98], 0.6 WSW PARADISE [37.27, -86.99], 2.3 SE MARTWICK [37.30, -86.99], 2.4 N PARADISE [37.30, -86.99], 1.4 N PARADISE [37.29, -86.98]**

	02/03/16 15:00 CST		0	Flood (due to Heavy Rain)
	02/08/16 12:00 CST		0	Source: River/Stream Gage

Minor flooding of the Green River inundated low-lying fields and woodlands along the river.

**Two lines of strong thunderstorms developed ahead of a cold front as it crossed the Mississippi River. The cold front extended southward from the triple-point of an occluded low pressure system. A strong southerly wind flow around 50 knots at 850 mb brought unseasonably moist air north from the Gulf of Mexico. At 500 mb, a strong closed low over western Kansas moved northeast across the central Plains. This low provided strong upper-level forcing for ascent. As the lines of convection slowed their eastward progress in the deep southerly flow, locally heavy rainfall resulted in minor flooding of roads and small rivers.**

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**(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-Z016) HOPKINS, (KY-Z017) CHRISTIAN, (KY-Z021) MUHLENBERG, (KY-Z022) TODD**

	02/09/16 03:00 CST		0	Winter Weather
	02/09/16 10:00 CST		0	

**A light snow event caused roadways to become slick and hazardous across much of western Kentucky. Snowfall amounts were**

## Storm Data and Unusual Weather Phenomena - February 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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generally around one inch. The snow fell on very cold road surfaces, which resulted in rapid deterioration of road conditions. There were numerous vehicle accidents in the Paducah area, including an overturned vehicle on U.S. Highway 45. A pickup truck flipped over on westbound Interstate 24 near mile marker 15, near Reidland. The driver of the truck was transported to a hospital for treatment of his injuries. In Marshall County, a two-vehicle collision on Highway 1462 near Benton injured a 27-year-old man. A van slid off Kentucky Highway 339 a few miles southwest of Lone Oak in McCracken County, and a child was taken to the hospital to be checked for injuries. The impact on the early morning commute was quite high. Schools were cancelled. The snow was caused by a disturbance in the upper levels of the atmosphere that rotated southeast around a deep low over the Great Lakes region.

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(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-Z012) TRIGG, (KY-Z014) UNION, (KY-Z015) WEBSTER, (KY-Z018) HENDERSON, (KY-Z019) DAVIESS

02/14/16 07:00 CST	0	Winter Weather
02/14/16 21:00 CST	0	

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(KY-Z011) LYON, (KY-Z013) CALDWELL, (KY-Z016) HOPKINS, (KY-Z017) CHRISTIAN, (KY-Z020) MCLEAN, (KY-Z021) MUHLENBERG, (KY-Z022) TODD

02/14/16 09:00 CST	0	Winter Storm
02/15/16 01:00 CST	0	

A winter storm system brought a wide range of precipitation amounts and snowfall amounts to western Kentucky on Valentine's Day. The Pennyriple region of western Kentucky received the most snow, averaging from 3 to 6 inches. Most of the remainder of western Kentucky received 1 to 3 inches. The snow fell very heavily for one to two hours across much of western Kentucky. Visibility was reduced to one-eighth mile or less. Snowfall rates of two inches per hour were not uncommon from the Paducah area east across the Lakes area to Princeton and Central City. There was thundersnow with the heaviest snowfall rates from the Paducah area east to near Princeton. Sleet or very small hail was mixed with the thundersnow. Most of the snow fell within two or three hours, followed by light freezing rain or drizzle. The freezing drizzle lingered for 6 to 12 hours in some places, especially in the Hopkinsville area. Ice accumulations were generally one-tenth inch or less. Along the Tennessee border from Fulton to Murray, where freezing rain and sleet were the dominant precipitation types, around one-half inch of mixed sleet and ice was reported. Roads throughout the region were very slick and hazardous. Numerous accidents were reported. In Christian County alone, officials reported over 50 accidents during the winter storm. Two separate accidents on Interstate 24 resulted in closures of the interstate and three injuries. An accident involving a semi was responsible for the closure of Interstate 24 near the Christian/Trigg County line. The eastbound lanes were closed for hours until the overturned tractor-trailer rig could be removed from the highway. One person was transported to a local hospital for non life-threatening injuries. Another accident on the Cumberland River bridge at the Lyon/Livingston County line closed the interstate for about two hours. A tractor-trailer rig struck a car that had lost control on the snow and struck the side of the bridge. Both drivers were injured, and one of them was taken to a regional hospital. The precipitation was caused by a strong southerly flow of moist air on the back side of a high pressure system over the Appalachian Mountains. Abundant low-level moisture and warmer air was drawn northward over initially cold air at the surface. A strong but compact 500 mb shortwave over the central Plains enhanced precipitation rates.

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(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-Z017) CHRISTIAN, (KY-Z018) HENDERSON, (KY-Z019) DAVIESS, (KY-Z020) MCLEAN, (KY-Z021) MUHLENBERG, (KY-Z022) TODD

02/15/16 06:00 CST	0	Dense Fog
02/15/16 19:00 CST	0	

Widespread dense fog blanketed western Kentucky. Visibility was reduced to one-quarter mile or less. The dense fog occurred under a weak surface high to the north of a quasi-stationary front. The dense fog lingered for the entire day across the Pennyriple region of western Kentucky, including the cities of Owensboro and Hopkinsville.

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(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-Z017) CHRISTIAN, (KY-Z018) HENDERSON, (KY-Z019) DAVIESS, (KY-Z020) MCLEAN, (KY-Z021) MUHLENBERG, (KY-Z022) TODD

02/16/16 00:00 CST	0	Dense Fog
02/16/16 09:00 CST	0	

Widespread dense fog blanketed western Kentucky during the early morning hours. Visibility was one-quarter mile or less. The dense fog occurred under a narrow ridge of high pressure that extended from the central Gulf coast northward to the Wabash River Valley. Light winds and moist ground from recent rain and snowmelt set the stage for the fog.

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(KY-Z007) LIVINGSTON, (KY-Z010) CRITTENDEN, (KY-Z013) CALDWELL, (KY-Z014) UNION, (KY-Z015) WEBSTER, (KY-Z016) HOPKINS, (KY-Z017) CHRISTIAN, (KY-Z021) MUHLENBERG, (KY-Z022) TODD

## Storm Data and Unusual Weather Phenomena - February 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	02/16/16 13:00 CST		0	Winter Weather
	02/16/16 17:00 CST		0	

From one to two inches of heavy wet snow fell across parts of western Kentucky. The accumulating snow fell in a band from Marion eastward across Madisonville and Greenville. Parts of neighboring counties were affected, including northern Livingston, northern Caldwell, and northern Christian. Steady rain changed to moderate snow, which reduced visibility to one-half mile for a few hours. Although temperatures were slightly above the freezing point, the snow fell heavily enough to coat roadways. A serious four-vehicle accident involving a tractor-trailer rig closed the northbound lanes of the Pennyriale Parkway at the 19-mile marker (just south of Crofton) for several hours. A vehicle traveling southbound on the parkway crossed the median and struck the tractor-trailer rig head-on. The driver of the vehicle was hospitalized in critical condition with multiple injuries. Several accidents were reported in Madisonville, and many others occurred outside the city limits in Hopkins County. A school bus slid into a ditch in Madisonville. The precipitation occurred ahead of a compact 500 mb shortwave that moved southeast from the central Plains across the Mississippi Valley. Surface winds were southeast ahead of the low pressure system, bringing milder air into parts of western Kentucky. However, temperatures aloft were quite cold. Where precipitation rates were heavy enough, the precipitation changed to snow.

(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-Z017) CHRISTIAN, (KY-Z018) HENDERSON, (KY-Z019) DAVIESS, (KY-Z020) MCLEAN, (KY-Z021) MUHLENBERG, (KY-Z022) TODD

02/19/16 09:00 CST	22K	Strong Wind (MAX 44 kt)
02/19/16 14:00 CST	0	

Strong south to southwest winds gusting up to 50 mph buffeted western Kentucky. The strongest measured wind gust was 51 mph at the Fort Campbell airfield near Hopkinsville. Other measured peak gusts included 48 mph at Madisonville, 47 mph at Owensboro, Morganfield, and Cadiz, 46 mph at Henderson and Marion, and 45 mph at Hickman in Fulton County. The cause of the strong winds was a strong pressure gradient between low pressure over the upper Mississippi Valley and high pressure over the Eastern seaboard.

(KY-Z014) UNION, (KY-Z018) HENDERSON, (KY-Z019) DAVIESS

02/20/16 04:00 CST	0	Dense Fog
02/20/16 07:00 CST	0	

Dense fog blanketed the Henderson/Owensboro area of western Kentucky during the early morning hours. Visibility was reduced to one-quarter mile or less. The dense fog occurred in a light southerly flow of moist air around high pressure centered off the Carolina coast.

MUHLENBERG COUNTY --- 0.8 NW KNIGHTSBURG [37.23, -86.94], 1.6 NNW KNIGHTSBURG [37.24, -86.94], 1.1 ESE PARADISE [37.26, -86.96], 0.6 NNW PARADISE [37.28, -86.98], 1.0 WNW PARADISE [37.27, -87.00]

02/24/16 10:00 CST	0	Flood (due to Heavy Rain)
02/29/16 17:00 CST	0	Source: River/Stream Gage

Minor flooding occurred along the Green River. Some low-lying fields and woods near the river were underwater.

UNION COUNTY --- 2.2 WSW UNIONTOWN [37.76, -87.97], 3.0 WNW UNIONTOWN [37.78, -87.98], 2.7 WNW UNIONTOWN [37.78, -87.98], 1.2 W UNIONTOWN [37.77, -87.95], 0.8 WSW UNIONTOWN [37.77, -87.94]

02/27/16 05:00 CST	0	Flood (due to Heavy Rain)
02/29/16 23:59 CST	0	Source: River/Stream Gage

Minor flooding occurred along the Ohio River. Some fields and woods in the bottomlands were underwater. The river continued rising into early March.

MCLEAN COUNTY --- CALHOUN [37.53, -87.27], 0.4 SE CALHOUN [37.53, -87.27], 0.7 W RUMSEY [37.52, -87.28], 1.2 W CALHOUN [37.53, -87.29]

02/27/16 06:00 CST	0	Flood (due to Heavy Rain)
02/28/16 10:00 CST	0	Source: River/Stream Gage

Minor flooding occurred along the Green River. Some low-lying fields and woods near the river were underwater.

Between the 20th and the 25th, a quasi-stationary front sagged south across the Lower Ohio Valley. It then lifted back north as an area of low pressure developed on the front and moved northeast. Widespread showers with moderate to heavy rain fell during this time period. Precipitation during this period ranged between 1 and 3 inches. The rain brought the Ohio and Green Rivers above flood stage by the end of the month.

(KY-Z001) FULTON, (KY-Z002) HICKMAN, (KY-Z003) CARLISLE, (KY-Z004) BALLARD, (KY-Z005) MCCRACKEN, (KY-Z007) LIVINGSTON, (KY-Z008) MARSHALL

## Storm Data and Unusual Weather Phenomena - February 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	02/28/16 12:00 CST		7K	Strong Wind (MAX 41 kt)
	02/28/16 15:00 CST		0	

A strong pressure gradient between an approaching cold front to the west and high pressure over the southeast U.S. produced strong southwest winds across parts of the Purchase area of western Kentucky. The highest measured wind gust was 47 mph at a meteorologist's private home in Calvert City. A wind gust to 45 mph was measured at the National Weather Service office in Paducah. The strong winds were northwest of a line from Mayfield to Marion, Kentucky.

### MISSOURI, Southeast

(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

02/14/16 05:00 CST	0	Winter Weather
02/14/16 14:00 CST	0	

A mixture of freezing rain and snow caused hazardous travel conditions. The precipitation was almost all freezing rain from the Poplar Bluff area westward and northward. Ice accumulations ranged from one-tenth to one-quarter inch. Further east, the precipitation began as heavy snow. The heavy snow lasted about an hour before changing to freezing rain. From 1 to 2 inches of snow fell across parts of southeast Missouri, generally along and east of a line from Marble Hill to New Madrid. The heavy snow reduced visibility to about one-quarter mile. Ice accumulations after the heavy snow were around one-tenth inch. Roads were slick and very hazardous. At least a dozen vehicles slid off roadways. The precipitation was caused by a strong southerly flow of moist air on the back side of a high pressure system over the Appalachian Mountains. Abundant low-level moisture and warmer air was drawn northward over initially cold air at the surface. A strong but compact 500 mb shortwave over the central Plains enhanced precipitation rates.

(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

02/15/16 07:00 CST	0	Dense Fog
02/15/16 11:00 CST	0	

Widespread dense fog blanketed southeast Missouri during the morning hours. Visibility was reduced to one-quarter mile or less. The dense fog occurred under a weak surface high to the north of a stationary front over the Lower Mississippi Valley.

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

02/16/16 00:00 CST	0	Dense Fog
02/16/16 08:00 CST	0	

Along and southeast of a line from Cape Girardeau to Poplar Bluff to Doniphan, dense fog was widespread during the early morning hours. Visibility was reduced to one-quarter mile or less. The dense fog occurred under a narrow ridge of high pressure that extended from the central Gulf coast northward to the Wabash River Valley of Illinois and Indiana. Light winds and moist ground from recent rain and snowmelt set the stage for the fog.

(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

02/19/16 06:00 CST	11K	Strong Wind (MAX 40 kt)
02/19/16 13:00 CST	0	

Strong south to southwest winds gusting to around 45 mph buffeted southeast Missouri. The strongest measured wind gust was 46 mph at the Poplar Bluff airport. The cause of the strong winds was a strong pressure gradient between low pressure over the upper Mississippi Valley and high pressure over the Eastern seaboard.

(MO-Z076) PERRY, (MO-Z087) CAPE GIRARDEAU, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID

02/20/16 04:00 CST	0	Dense Fog
02/20/16 08:00 CST	0	

Dense fog blanketed the Mississippi River counties of southeast Missouri during the early morning hours. Visibility was reduced to one-quarter mile or less. The dense fog occurred in a light southerly flow of moist air around high pressure centered off the Carolina coast.

(MO-Z107) CARTER, (MO-Z108) RIPLEY, (MO-Z109) BUTLER, (MO-Z110) STODDARD

## Storm Data and Unusual Weather Phenomena - February 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	02/23/16 19:00 CST		4K	Strong Wind (MAX 43 kt)
	02/24/16 09:00 CST		0	
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<b>(MO-Z076) PERRY</b>				
	02/24/16 03:00 CST		30K	Winter Storm
	02/24/16 12:00 CST		0	
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<b>(MO-Z086) BOLLINGER, (MO-Z087) CAPE GIRARDEAU, (MO-Z100) WAYNE</b>				
	02/24/16 04:00 CST		0	Winter Weather
	02/24/16 12:00 CST		0	

A combination of heavy wet snow and strong winds during the morning hours produced major impacts in parts of southeast Missouri. From 4 to 7 inches of heavy wet snow fell in the Perryville area, including most of Perry County. The highest impacts were in Perry County, where widespread power outages knocked out power to 90 percent of Perryville. Sustained north winds ranged from 20 to 30 mph, with gusts to around 45 mph. Further south, from 1 to 3 inches of heavy wet snow fell as far south as a line from Cape Girardeau to Greenville in Wayne County. The snow fell heavily for a few hours, reducing visibility as low as one-quarter mile. Roads were very slick and hazardous. Dozens of cars slid off roads. Temperatures were from 32 to 34 degrees, which resulted in a heavy, wet snowfall. Specific snowfall amounts included 7 inches at Perryville, 3 inches at North Patton (in Bollinger County), 2.5 inches at Greenville (in Wayne County), and 1.5 inches on the west side of Cape Girardeau. The strongest winds occurred in the Poplar Bluff and Dexter areas, which were south of the accumulating snow. The peak wind gust at the Poplar Bluff airport was 46 mph. A trained spotter near Dudley in Stoddard County measured a sustained wind of 38 mph with a peak gust to 49 mph. This heavy precipitation and wind event was caused by a couple of weak surface lows that consolidated into a strong low pressure center over western Kentucky. At 500 mb, the phasing of a northern stream shortwave over the northern Plains with a moist southern stream shortwave over Texas resulted in a deep low over the Lower Ohio Valley. North and west of the low track, rain transitioned to snow very late at night and continued through the morning.

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<b>(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</b>				
	02/28/16 12:00 CST		11K	Strong Wind (MAX 43 kt)
	02/28/16 15:00 CST		0	

A strong pressure gradient between an approaching cold front to the west and high pressure over the southeast U.S. produced strong southwest winds. The highest measured peak wind gust was 49 mph at the Cape Girardeau airport. There was a peak gust to 46 mph at the Poplar Bluff airport.