

## Storm Data and Unusual Weather Phenomena - September 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>ILLINOIS, South</b>				
<b>JEFFERSON COUNTY --- 3.0 NE MT VERNON [38.35, -88.86], MT VERNON [38.32, -88.90]</b>				
	09/01/12 00:00 CST		0	Heavy Rain
	09/01/12 19:00 CST		0	Source: Trained Spotter
A trained spotter reported a rainfall total of 5 inches over a period of about 18 hours. Street flooding was reported in portions of the area.				
<b>PERRY COUNTY --- 0.9 SW SUNFIELD [38.06, -89.24]</b>				
	09/01/12 13:06 CST		0	Heavy Rain
	09/01/12 17:06 CST		0	Source: Trained Spotter
A trained spotter reported 2.75 inches of rain in a four-hour period.				
<b>JACKSON COUNTY --- 1.7 SW CARBONDALE [37.70, -89.24], 1.5 SSE CARBONDALE [37.70, -89.21], 2.0 NNE CARBONDALE [37.74, -89.20], 1.7 NNW CARBONDALE [37.74, -89.23]</b>				
	09/01/12 16:00 CST		30K	Flash Flood (due to Heavy Rain)
	09/01/12 19:00 CST		0	Source: Trained Spotter
Flash flooding occurred throughout much of the city. Street flooding was reported throughout downtown Carbondale. Highway 13 was closed through the middle of the city due to stranded vehicles in the road. Flash flooding occurred in front of the train station on U.S. Highway 51, where two cars were stalled out. A nearby theater was damaged by floodwater. The automated observing system at the Carbondale airport measured 4.72 inches of rain from the remnants of Hurricane Isaac. Of that amount, 2.38 inches fell in a two-hour period.				
<b>WILLIAMSON COUNTY --- 0.8 NNW HERRIN [37.81, -89.04], 0.7 SW HERRIN [37.79, -89.04], 1.1 SE HERRIN [37.79, -89.02], 1.0 NE HERRIN [37.81, -89.02]</b>				
	09/01/12 16:30 CST		0	Flood (due to Heavy Rain)
	09/01/12 19:30 CST		0	Source: Trained Spotter
Flooding occurred in Herrin, especially on a few residential streets east of Highway 148. Yards were flooded.				
<b>ALEXANDER COUNTY --- 7.0 NW CAIRO [37.07, -89.27]</b>				
	09/01/12 17:41 CST		0	Funnel Cloud
	09/01/12 17:41 CST		0	Source: Trained Spotter
A wall cloud and funnel cloud were observed by the general public.				
<b>PULASKI COUNTY --- 1.3 SSE AMERICA [37.11, -89.11]</b>				
	09/01/12 17:58 CST		0	Funnel Cloud
	09/01/12 17:58 CST		0	Source: Emergency Manager
A funnel cloud was seen crossing the Ohio River into northwest Ballard County, Kentucky.				
<b>MASSAC COUNTY --- 2.0 S ROUND KNOB [37.22, -88.75], METROPOLIS [37.15, -88.73]</b>				
	09/01/12 18:20 CST		10K	Thunderstorm Wind (EG 52 kt)
	09/01/12 18:30 CST		0	Source: Trained Spotter
Several large trees were blown down, and tree tops were blown out. About half the city of Metropolis was reported to be out of power. The highest wind gusts were estimated near 60 mph. The tree damage area included Joppa, Metropolis, and the Midway area.				
<b>POPE COUNTY --- ROSEBUD [37.28, -88.58]</b>				
	09/01/12 18:40 CST		3K	Thunderstorm Wind (EG 50 kt)
	09/01/12 18:40 CST		0	Source: Public
Scattered tree limbs were blown down.				
<b>SALINE COUNTY --- HARRISBURG [37.73, -88.55], 3.0 S HARRISBURG [37.69, -88.55]</b>				
	09/01/12 19:00 CST		0	Heavy Rain
	09/01/12 19:44 CST		0	Source: Emergency Manager
Water was reported over the road at a street intersection in Harrisburg. Water was also over Highway 145 south of Harrisburg.				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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The remnants of Hurricane Isaac brought heavy rain and thunderstorms with isolated damaging winds. A southwesterly low level jet around 40 knots persisted along the southeastern flank of the circulation from Isaac. The stronger low level winds were co-located with an axis of moderate instability, where mixed-layer capes ranged from 1500 to 2000 j/kg. Within this region, numerous storms developed along low level convergence bands extending across southern Illinois. A discrete supercell in the extreme southern part of Illinois produced funnel clouds, and a bowing line segment caused scattered wind damage.

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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	09/01/12 00:00 CST	0	0	Drought
	09/30/12 23:59 CST	0	0	

Significant improvement in drought conditions occurred during the month of September. Heavy rain from the remnants of Hurricane Isaac at the start of the month was a notable factor. The extreme to exceptional summer drought officially ended along and north of Interstate 64. The area of severe drought conditions shrank to include only those counties along the Ohio River. All other areas of southern Illinois improved to moderate drought conditions by month's end. Soil moisture deficits decreased greatly. By the end of September, soil moisture was near normal. Most of the corn crop was either harvested or plowed under, and corn crop losses were expected to be very high. Estimates on soybean crop losses were not available yet. Numerous counties were declared natural disaster areas earlier in the growing season. Pastures improved, but a majority of them remained in poor or very poor condition. Fire danger decreased significantly, and all bans on outdoor burning were lifted. Streamflows were running about normal. At the Carbondale airport, 3.95 inches of rain fell in September, which was about a half inch above normal. The drought began in May and continued into October in most areas.

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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-Z088) UNION, (IL-Z092) ALEXANDER	09/06/12 03:00 CST	0	0	Dense Fog
	09/06/12 08:00 CST	0	0	

Widespread dense fog blanketed parts of southern Illinois, mainly along and north of a line from Carbondale to Marion and Harrisburg. The Mississippi River counties were also affected by dense fog. Visibility dropped to one-quarter mile or less for several hours. The fog occurred with a very weak southerly wind flow of moist air ahead of a weak cold front. The front extended from central Illinois to south central Missouri.

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ALEXANDER COUNTY --- 2.2 SE CAIRO [36.98, -89.15]	09/06/12 17:31 CST	3K	0	Thunderstorm Wind (EG 52 kt)
	09/06/12 17:31 CST	0	0	Source: Emergency Manager

A loaded 18-wheeler was blown over on U.S. Highway 60/62 on the Illinois side of the Mississippi River bridge.

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MASSAC COUNTY --- METROPOLIS [37.15, -88.73], 1.2 E METROPOLIS MUNI ARPT [37.18, -88.73]	09/06/12 18:00 CST	30K	0	Thunderstorm Wind (EG 61 kt)
	09/06/12 18:15 CST	0	0	Source: Trained Spotter

In Metropolis, a window was blown out of a house. Power lines and tree limbs were blown down. An awning was torn off a cafe, and there was siding and gutter damage to houses. A large tree was down across a main street just north of town.

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MASSAC COUNTY --- ROUND KNOB [37.25, -88.75]	09/06/12 18:04 CST	0	0	Thunderstorm Wind (EG 56 kt)
	09/06/12 18:04 CST	0	0	Source: Trained Spotter

A trained spotter estimated a wind gust to 65 mph.

A mature mesoscale convective system progressed east-southeastward across the extreme southern tip of Illinois, producing pockets of wind damage. The well-developed cold pool in the wake of the system sustained its rapid forward motion. Steep mid-level lapse rates coupled with 20 to 35 knots of mid level flow resulted in pockets of damaging winds with the complex. Weak ascent within the southern branch of the jetstream supported the formation of the system. In its wake, temperatures in the 60's in the cold pool kept the movement of the system accelerating east-southeast.

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HARDIN COUNTY --- ELIZABETHTOWN [37.45, -88.30]	09/07/12 18:12 CST	0	0	Hail (1.75 in)
	09/07/12 18:12 CST	0	0	Source: Broadcast Media

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WILLIAMSON COUNTY --- MARION [37.73, -88.93], 1.3 E MARION [37.73, -88.91]

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	09/07/12 18:15 CST		80K	Thunderstorm Wind (EG 61 kt)
	09/07/12 18:15 CST		0	Source: Trained Spotter

On the east edge of Marion near the fairgrounds, a roof was blown off a plumbing business. Metal roof debris was entangled in power lines. The plumbing business was in a large metal shed-type structure. Trees were blown down on a street on the south end of town. Numerous power outages were reported. Portable stop signs were placed at intersections where traffic lights were not functioning. A power pole fell on a car on Old Route 13. About 3,500 utility customers were without power at the peak of the storm.

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### UNION COUNTY --- ANNA [37.47, -89.25]

	09/07/12 18:18 CST		25K	Thunderstorm Wind (EG 52 kt)
	09/07/12 18:18 CST		0	Source: Utility Company

A few trees were blown down, along with numerous tree limbs.

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### PERRY COUNTY --- 5.0 N PINCKNEYVILLE [38.15, -89.38]

	09/07/12 18:20 CST		0	Heavy Rain
	09/07/12 18:50 CST		0	Source: Trained Spotter

One inch of rain was measured in 30 minutes.

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### JACKSON COUNTY --- MURPHYSBORO [37.77, -89.33], (MDH)CRBNDL/MRFYSBRO [37.78, -89.25]

	09/07/12 18:22 CST		30K	Thunderstorm Wind (MG 52 kt)
	09/07/12 18:22 CST		0	Source: ASOS

Tree damage was reported in the cities of Carbondale and Murphysboro. A wind gust to 60 mph was measured at the automated observation site at the Carbondale airport. In Murphysboro, a downed tree took down a power line that landed on a house.

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### JACKSON COUNTY --- MAKANDA [37.62, -89.20]

	09/07/12 18:23 CST		5K	Thunderstorm Wind (EG 52 kt)
	09/07/12 18:23 CST		0	Source: Emergency Manager

Several trees were blown down.

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### SALINE COUNTY --- 3.0 NW GALATIA [37.86, -88.66]

	09/07/12 19:02 CST		3K	Thunderstorm Wind (EG 52 kt)
	09/07/12 19:02 CST		0	Source: Emergency Manager

Three trees were down on Highway 34.

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### SALINE COUNTY --- HARRISBURG [37.73, -88.55], CARRIERS MILLS [37.68, -88.65]

	09/07/12 19:09 CST		8K	Thunderstorm Wind (EG 56 kt)
	09/07/12 19:09 CST		0	Source: Emergency Manager

Several trees and power lines were blown down. Wind gusts were estimated near 65 mph.

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### HAMILTON COUNTY --- 0.3 SW MC LEANSBORO MUNI AR [38.07, -88.53]

	09/07/12 19:15 CST		5K	Thunderstorm Wind (EG 52 kt)
	09/07/12 19:15 CST		0	Source: Emergency Manager

Several trees were blown down, blocking Illinois Highway 142. State road crews were called out to clear the road.

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### WHITE COUNTY --- CARMI MUNI ARPT [38.10, -88.15]

	09/07/12 19:35 CST		0	Thunderstorm Wind (MG 53 kt)
	09/07/12 19:35 CST		0	Source: AWOS

A wind gust to 61 mph was measured at the automated observation site at the Carmi airport.

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### PULASKI COUNTY --- MOUNDS [37.12, -89.20]

	09/07/12 19:42 CST		2K	Thunderstorm Wind (EG 50 kt)
	09/07/12 19:42 CST		0	Source: Emergency Manager

Two trees were blown down.

## Storm Data and Unusual Weather Phenomena - September 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Damaging winds were the primary type of severe weather as an extensive squall line crossed southern Illinois. Thunderstorms were organized into bowing line segments that produced damaging winds as they moved rapidly east at 50 to 60 mph. The storms occurred along and ahead of a cold front that trailed south from a low pressure center near St. Louis. Isolated severe thunderstorm cells developed ahead of the quasi-linear convective system. Moderate instability existed ahead of the line of storms, with capes from 1500 to 2500 j/kg. Wind shear remained more than adequate for organization of the storms, with winds veering vertically in the lowest 3 km.

**WHITE COUNTY --- CROSSVILLE [38.17, -88.07]**

	09/25/12 04:17 CST	0		Hail (0.75 in)
	09/25/12 04:17 CST	0		Source: Trained Spotter

Pea to dime size hail was reported.

**WABASH COUNTY --- 2.0 N BELLMONT [38.41, -87.92]**

	09/25/12 17:58 CST	0		Hail (1.75 in)
	09/25/12 18:02 CST	0		Source: Emergency Manager

Quarter to golf ball size hail was reported.

Ahead of a low pressure center over the central Plains, strong southwest low-level winds provided adequate moisture and instability for thunderstorms. Isolated storms produced large hail.

**EDWARDS COUNTY --- 3.0 W WEST SALEM [38.52, -88.08]**

	09/26/12 00:00 CST	0		Heavy Rain
	09/26/12 07:48 CST	0		Source: Trained Spotter

The storm total rainfall was 6.30 inches. Approximately 2.3 inches fell during the overnight hours.

**JEFFERSON COUNTY --- (MVN)MT VERNON ARPT [38.32, -88.87]**

	09/26/12 00:00 CST	0		Heavy Rain
	09/26/12 06:00 CST	0		Source: AWOS

The 24-hour rainfall total was 1.66 inches. Most of this rain fell before dawn on the 26th.

**WABASH COUNTY --- MT CARMEL MUNI ARPT [38.60, -87.72]**

	09/26/12 00:00 CST	0		Heavy Rain
	09/26/12 06:00 CST	0		Source: AWOS

The 24-hour rainfall total at the Mount Carmel Municipal Airport was 2.52 inches. Most of this rain fell before dawn on the 26th.

**WAYNE COUNTY --- 3.3 ESE ORCHARDVILLE [38.49, -88.59], GEFF [38.45, -88.40]**

	09/26/12 00:00 CST	0		Heavy Rain
	09/26/12 04:43 CST	0		Source: Trained Spotter

The 24-hour rainfall near Orchardville was 4.50 inches. Most of this rain fell before dawn on the 26th. Water was over a flood-prone spot on U.S. Highway 45 near Geff for a short time. Some other back roads were flooded in spots.

**WABASH COUNTY --- 3.0 NW FRIENDSVILLE [38.53, -87.86]**

	09/26/12 03:55 CST	0		Hail (0.88 in)
	09/26/12 03:55 CST	0		Source: Emergency Manager

A spotter encountered dime to nickel size hail while driving from Lancaster to Friendsville.

Heavy rainfall occurred north of Interstate 64, where bands of thunderstorms repeatedly moved across the same area during the night. The storms were fed by a strong southwest low-level flow of moist and unstable air. This feed of moisture and instability developed ahead of a cold front as it moved southeast into central Illinois.

### INDIANA, Southwest

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

## Storm Data and Unusual Weather Phenomena - September 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	09/01/12 00:00 CST		0	Drought
	09/30/12 23:59 CST		0	

Significant improvement in drought conditions occurred during the month of September. Heavy rain from the remnants of Hurricane Isaac at the start of the month was a notable factor. The extreme to exceptional summer drought officially ended north of Interstate 64. The area of severe drought conditions shrank to include only those counties along the Ohio River. Soil moisture deficits decreased greatly. By the end of September, soil moisture was near normal. Most of the corn crop was either harvested or plowed under, and corn crop losses were expected to be very high. Estimates on soybean crop losses were not available yet. Numerous counties were declared natural disaster areas earlier in the growing season. Pastures improved, but a majority of them remained in poor or very poor condition. Fire danger decreased significantly, and all bans on outdoor burning were lifted. Streamflows were running about normal. At the Evansville airport, 7.60 inches of rain fell in September, which was about 4.5 inches above normal. The drought began in May and continued into October in most areas.

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

09/05/12 11:29 CST	40K	Thunderstorm Wind (EG 61 kt)
09/05/12 11:29 CST	0	Source: Emergency Manager

Three trees and three power poles were blown down. One tree fell on a home, and another fell on a car.

A broken squall line moved east-southeast across southwest Indiana. The activity was supported by an upper level disturbance embedded within a branch of the jetstream that extended from west to east through central parts of Kansas and Missouri. The squall line was enhanced by strong surface heating and moist southerly low level winds.

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

09/06/12 02:00 CST	0	Dense Fog
09/06/12 07:00 CST	0	

Widespread dense fog blanketed southwest Indiana. Visibility dropped to one-quarter mile or less for several hours. The fog occurred with a very weak southerly wind flow of moist air ahead of a weak cold front. The front extended from central Illinois to south central Missouri.

### POSEY COUNTY --- POSEYVILLE [38.17, -87.78]

09/07/12 19:15 CST	0	Heavy Rain
09/07/12 20:17 CST	0	Source: Trained Spotter

Low-lying flooding was reported on main roads into Poseyville. A cocorahs observer a few miles northwest of Poseyville measured a storm total rainfall of 2.52 inches.

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

09/07/12 19:20 CST	0	Heavy Rain
09/07/12 20:30 CST	0	Source: Trained Spotter

A trained spotter measured 2.10 inches of rain in an hour and ten minutes.

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

09/07/12 19:34 CST	10K	Thunderstorm Wind (EG 52 kt)
09/07/12 19:34 CST	0	Source: Trained Spotter

Trees were blown down in the south part of Evansville.

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

09/07/12 19:40 CST	15K	Thunderstorm Wind (EG 52 kt)
09/07/12 19:40 CST	0	Source: Trained Spotter

Minor roof damage occurred to three homes. Several trees were down on power lines, and power lines were down.

### POSEY COUNTY --- NEW HARMONY [38.13, -87.93]

09/07/12 19:40 CST	10K	Thunderstorm Wind (EG 52 kt)
09/07/12 19:40 CST	0	Source: Law Enforcement

Large tree limbs were down on power lines, causing power outages.

### POSEY COUNTY --- WADESVILLE [38.10, -87.78]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	09/07/12 19:50 CST		0	Hail (0.75 in)
	09/07/12 19:50 CST		0	Source: Trained Spotter

**VANDERBURGH COUNTY --- 0.5 ENE NISBET [38.15, -87.64], 0.9 NNE ST JOSEPH [38.08, -87.64]**

	09/07/12 19:58 CST		50K	Thunderstorm Wind (EG 61 kt)
	09/07/12 19:58 CST		0	Source: Emergency Manager

Substantial tree damage occurred in northwest parts of the county. Trees were down on power lines, causing numerous power outages.

**VANDERBURGH COUNTY --- DARMSTADT [38.10, -87.58], MC CUTCHANVILLE [38.07, -87.53]**

	09/07/12 19:59 CST		50K	Thunderstorm Wind (EG 61 kt)
	09/07/12 20:10 CST		0	Source: Trained Spotter

Many trees were blown down in Darmstadt. A barn was blown into the road at Darmstadt. Power lines were blown down in and around the city of McCutchanville.

**VANDERBURGH COUNTY --- 1.6 SSE BELKNAP [37.96, -87.67], 1.4 SW ST JOSEPH [38.06, -87.67]**

	09/07/12 20:00 CST		50K	Thunderstorm Wind (EG 61 kt)
	09/07/12 20:00 CST		0	Source: Emergency Manager

Substantial tree damage occurred in southwest parts of the county. Trees were down on power lines, causing numerous power outages.

**GIBSON COUNTY --- 1.8 SW FT BRANCH [38.23, -87.60]**

	09/07/12 20:03 CST		5K	Thunderstorm Wind (EG 56 kt)
	09/07/12 20:03 CST		0	Source: Trained Spotter

A trained spotter estimated wind gusts to 65 mph. Power outages were reported.

**VANDERBURGH COUNTY --- DARMSTADT [38.10, -87.58]**

	09/07/12 20:10 CST		0	Heavy Rain
	09/07/12 20:30 CST		0	Source: Trained Spotter

A trained spotter measured 1.25 inches of rain in 20 minutes.

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

	09/07/12 20:13 CST		3K	Thunderstorm Wind (EG 61 kt)
	09/07/12 20:13 CST		0	Source: Emergency Manager

Wind gusts were estimated near 70 mph in downtown Evansville. Power outages were reported.

**WARRICK COUNTY --- 0.9 SSW CHANDLER [38.04, -87.38]**

	09/07/12 20:18 CST		5K	Thunderstorm Wind (EG 52 kt)
	09/07/12 20:18 CST		0	Source: Trained Spotter

Several small trees were blown down on Highway 62.

**WARRICK COUNTY --- BOONVILLE [38.05, -87.27]**

	09/07/12 20:19 CST		9K	Thunderstorm Wind (EG 61 kt)
	09/07/12 20:19 CST		0	Source: State Official

A roof was partially blown off a car wash. Two trees were blown down.

**SPENCER COUNTY --- ROCKPORT [37.88, -87.05]**

	09/07/12 20:40 CST		6K	Thunderstorm Wind (MG 58 kt)
	09/07/12 20:40 CST		0	Source: Trained Spotter

Tree limbs were blown down, some of which were large. A wind gust was clocked at 67 mph.

**PIKE COUNTY --- PETERSBURG [38.50, -87.28]**

	09/07/12 20:50 EST		8K	Thunderstorm Wind (EG 52 kt)
	09/07/12 20:50 EST		0	Source: Trained Spotter

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Several trees were blown down. Power outages were reported.

Damaging winds were the primary type of severe weather as an extensive squall line crossed southwest Indiana. Thunderstorms were organized into bowing line segments that produced damaging winds as they moved rapidly east at 50 to 60 mph. The storms occurred along and ahead of a cold front that trailed south from a low pressure center near St. Louis. Isolated severe thunderstorm cells developed ahead of the quasi-linear convective system. Moderate instability existed ahead of the line of storms, with capes from 1500 to 2500 j/kg. Wind shear remained more than adequate for organization of the storms, with winds veering vertically in the lowest 3 km.

### POSEY COUNTY --- MT VERNON [37.93, -87.90]

09/17/12 15:00 CST		0		Heavy Rain
09/17/12 16:00 CST		0		Source: Law Enforcement

Two streets were flooded. One of the streets was closed.

A nearly stationary cluster of thunderstorms produced isolated minor flooding. The storms occurred in advance of an eastward-moving cold front over eastern Illinois.

### GIBSON COUNTY --- EAST MT CARMEL [38.40, -87.73]

09/25/12 04:57 CST		0		Hail (0.88 in)
09/25/12 04:57 CST		0		Source: Trained Spotter

### GIBSON COUNTY --- 1.3 NNE PATOKA [38.44, -87.57]

09/25/12 18:14 CST		0		Hail (0.75 in)
09/25/12 18:14 CST		0		Source: Public

Ahead of a low pressure center over the central Plains, strong southwest low-level winds provided adequate moisture and instability for thunderstorms. Isolated storms produced large hail.

### GIBSON COUNTY --- HAZLETON [38.48, -87.53]

09/26/12 00:00 CST		10K		Heavy Rain
09/26/12 06:00 CST		0		Source: COOP Observer

The 24-hour rainfall at Hazleton was 3.60 inches. Most of this rain fell before dawn on the 26th. A washout that occurred along a small creek broke a buried communications cable. The cable cut interrupted data flow, including data from the weather radar at Owensville.

### PIKE COUNTY --- PETERSBURG [38.50, -87.28]

09/26/12 00:00 EST		0		Heavy Rain
09/26/12 07:00 EST		0		Source: CoCoRaHS

The 24-hour rainfall was 3.22 inches. Most of this rain fell before dawn on the 26th.

Heavy rainfall occurred north of Interstate 64, where bands of thunderstorms repeatedly moved across the same area during the night. The storms were fed by a strong southwest low-level flow of moist and unstable air. This feed of moisture and instability developed ahead of a cold front as it moved southeast into central Illinois.

## KENTUCKY, Southwest

### HICKMAN COUNTY --- CLINTON [36.67, -88.98]

09/01/12 00:00 CST		0		Heavy Rain
09/01/12 23:00 CST		0		Source: Trained Spotter

A trained spotter measured a rainfall total of 3.3 inches since midnight.

### BALLARD COUNTY --- 3.9 NE HOLLOWAY [37.12, -89.11]

09/01/12 17:58 CST		0		Funnel Cloud
09/01/12 17:58 CST		0		Source: Emergency Manager

A funnel cloud was seen crossing the Ohio River into northwest Ballard County, Kentucky.

### BALLARD COUNTY --- 0.6 NW GUM CORNERS [37.03, -89.06], 2.6 ESE OSCAR [37.11, -88.99]

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	09/01/12 18:00 CST		10K	Thunderstorm Wind (EG 52 kt)
	09/01/12 18:00 CST		0	Source: Emergency Manager

Scattered areas of damage to tree branches were reported in northern Ballard County. Power outages were reported between Barlow and Wickliffe.

### MCCRACKEN COUNTY --- 1.4 NNW WOODVILLE [37.12, -88.89], 2.1 NW CECIL [37.12, -88.70]

	09/01/12 18:15 CST		5K	Thunderstorm Wind (EG 50 kt)
	09/01/12 18:25 CST		0	Source: Emergency Manager

Scattered areas of damage to tree limbs were reported in northern McCracken County.

The remnants of Hurricane Isaac brought thunderstorms with isolated damaging winds. A southwesterly low level jet around 40 knots persisted along the southeastern flank of the circulation from Isaac. The stronger low level winds were co-located with an axis of moderate instability, where mixed-layer capes ranged from 1500 to 2000 j/kg. Within this region, a bowing line segment in the extreme western part of Kentucky produced scattered wind damage and a few funnel clouds.

(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

	09/01/12 00:00 CST		0	Drought
	09/30/12 23:59 CST		0	

Significant improvement in drought conditions occurred during the month of September. Heavy rain from the remnants of Hurricane Isaac at the start of the month was a notable factor. The extreme to exceptional summer drought gave way to only moderate drought in the Pennyriple region of western Kentucky, including the Hopkinsville and Madisonville areas. The area of extreme drought conditions shrank to include only the southwesternmost four counties of Kentucky. All other areas of western Kentucky improved to severe drought conditions by month's end. Soil moisture deficits decreased greatly. By the end of September, soil moisture was near normal. Most of the corn crop was either harvested or plowed under, and corn crop losses were expected to be very high. Estimates on soybean crop losses were not available yet. Numerous counties were declared natural disaster areas earlier in the growing season. Pastures improved, but a majority of them remained in poor or very poor condition. Fire danger decreased significantly, and all bans on outdoor burning were lifted. Streamflows were running about normal. At the Paducah airport, 5.24 inches of rain fell in September, which was about one inch above normal. The drought began in May and continued into October.

### CHRISTIAN COUNTY --- 1.0 N HOPKINSVILLE [36.86, -87.48]

	09/05/12 14:42 CST		0	Thunderstorm Wind (MG 55 kt)
	09/05/12 14:42 CST		0	Source: Trained Spotter

A 63-mph wind gust was associated with the gust front ahead of a line of thunderstorms.

### FULTON COUNTY --- BONDURANT [36.52, -89.32], BROWNSVILLE [36.53, -89.22]

	09/05/12 15:00 CST		0	Hail (1.00 in)
	09/05/12 15:03 CST		0	Source: Public

### HICKMAN COUNTY --- FULHAM [36.65, -88.87]

	09/05/12 15:00 CST		0	Hail (0.75 in)
	09/05/12 15:00 CST		0	Source: Emergency Manager

### GRAVES COUNTY --- WINGO [36.65, -88.73]

	09/05/12 15:08 CST		1K	Thunderstorm Wind (EG 50 kt)
	09/05/12 15:08 CST		0	Source: Public

The wind tore apart a swing set and carried it into a bean field across the road.

### CHRISTIAN COUNTY --- 5.0 NNE HERNDON [36.80, -87.54]

	09/05/12 15:20 CST		4K	Lightning
	09/05/12 15:20 CST		0	Source: Law Enforcement

A vehicle was struck by lightning on Interstate 24.

Thunderstorms increased in coverage and strength during the late afternoon in a zone of strong instability along the southern edge of the westerly jetstream. Thunderstorms that occurred over Illinois and Indiana earlier in the day left an outflow boundary that extended from west-northwest to east-southeast across western Kentucky. This boundary enhanced thunderstorm development. Rich low level

## Storm Data and Unusual Weather Phenomena - September 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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moisture and steep lapse rates fostered isolated severe weather events until the atmosphere stabilized toward sunset.

**(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**

09/06/12 01:00 CST			0	Dense Fog
09/06/12 07:00 CST			0	

Widespread dense fog blanketed parts of western Kentucky, mainly from Henderson and Owensboro south to the Hopkinsville area. Visibility dropped to one-quarter mile or less for several hours. The fog occurred with a very weak southerly wind flow of moist air ahead of a weak cold front. The front extended from central Illinois to south central Missouri.

**BALLARD COUNTY --- KEVIL [37.08, -88.90], 2.6 SE SLATER [36.99, -88.95]**

09/06/12 17:40 CST			3K	Thunderstorm Wind (EG 52 kt)
09/06/12 17:45 CST			0	Source: Trained Spotter

A tree was blown down over a roadway near the community of New York, which is on Highway 286 west of Gage. Another tree was blown onto a roadway at LaCenter.

**HICKMAN COUNTY --- 0.9 SE OAKTON [36.66, -89.06]**

09/06/12 17:40 CST			30K	Thunderstorm Wind (EG 61 kt)
09/06/12 17:40 CST			0	Source: Emergency Manager

The roofs were blown off two chicken houses on Highway 123.

**MCCRACKEN COUNTY --- 1.2 WSW CAMELIA [37.01, -88.80]**

09/06/12 17:43 CST			0	Thunderstorm Wind (EG 52 kt)
09/06/12 17:43 CST			0	Source: Trained Spotter

A trained spotter estimated a wind gust to 60 mph at the junction of Highways 62 and 286.

**CARLISLE COUNTY --- BARDWELL [36.87, -89.02]**

09/06/12 17:44 CST			0	Thunderstorm Wind (EG 52 kt)
09/06/12 17:44 CST			0	Source: Trained Spotter

A trained spotter estimated a wind gust to 60 mph. Power outages were reported.

**HICKMAN COUNTY --- CLINTON [36.67, -88.98]**

09/06/12 17:45 CST			15K	Thunderstorm Wind (EG 56 kt)
09/06/12 17:45 CST			0	Source: Emergency Manager

Several trees were blown down on U.S. Highway 51. The county road maintenance building lost part of its roof.

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

09/06/12 18:00 CST			0	Funnel Cloud
09/06/12 18:00 CST			0	Source: Emergency Manager

An apparent funnel cloud was observed over the southeast side of Paducah.

**MCCRACKEN COUNTY --- PADUCAH [37.08, -88.63]**

09/06/12 18:00 CST			10K	Thunderstorm Wind (EG 52 kt)
09/06/12 18:00 CST			0	Source: Public

Shingles were blown off a house onto a neighbor's house. Tree branches were blown down.

**GRAVES COUNTY --- MAYFIELD GRAVES ARPT [36.77, -88.58]**

09/06/12 18:10 CST			0	Thunderstorm Wind (MG 51 kt)
09/06/12 18:10 CST			0	Source: AWOS

A wind gust to 59 mph was measured at the Mayfield-Graves County Airport by an automated weather station.

**MARSHALL COUNTY --- 1.2 WNW BREWERS [36.78, -88.45], 1.5 E HARVY [36.82, -88.39]**

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	09/06/12 18:25 CST		30K	Thunderstorm Wind (EG 52 kt)
	09/06/12 18:35 CST		0	Source: Trained Spotter

Trees were blown down, blocking both lanes at the intersection of Highways 402 and 58 in the Brewers area. A tree was down on Highway 2606 a couple miles southwest of Benton. Another tree landed on a house southwest of Benton on Highway 58. The house was evacuated due to structural damage.

<b>CALLOWAY COUNTY --- 0.7 WNW MURRAY [36.62, -88.33], 1.3 N TAYLORS STORE [36.55, -88.42]</b>				
	09/06/12 18:40 CST		15K	Thunderstorm Wind (EG 52 kt)
	09/06/12 18:40 CST		0	Source: Newspaper

A tree and power line was blown down in the southwest part of the county. A car ran into a downed tree just northwest of Murray.

<b>TRIGG COUNTY --- 2.2 W CADIZ [36.87, -87.86]</b>				
	09/06/12 19:15 CST		0	Heavy Rain
	09/06/12 20:30 CST		0	Source: Trained Spotter

A trained spotter measured 2.3 inches of rainfall in the storm.

**A mature mesoscale convective system progressed east-southeastward, producing pockets of wind damage. The well-developed cold pool in the wake of the system sustained its rapid forward motion. Steep mid-level lapse rates coupled with 20 to 35 knots of mid level flow resulted in pockets of damaging winds with the complex. Weak ascent within the southern branch of the jetstream supported the formation of the system. In its wake, temperatures in the 60's in the cold pool kept the movement of the system accelerating east-southeast. The system weakened around sunset as the atmosphere stabilized.**

<b>BALLARD COUNTY --- KEVIL [37.08, -88.90]</b>				
	09/07/12 19:50 CST		5K	Thunderstorm Wind (EG 52 kt)
	09/07/12 19:50 CST		0	Source: NWS Employee

There was minor shingle damage to houses in a subdivision.

<b>CALLOWAY COUNTY --- MURRAY [36.62, -88.32]</b>				
	09/07/12 21:00 CST		0	Heavy Rain
	09/07/12 21:29 CST		0	Source: Mesonet

A mesonet site measured 1.12 inches in 30 minutes.

<b>DAVIESS COUNTY --- WHITESVILLE [37.68, -86.88]</b>				
	09/07/12 21:02 CST		10K	Thunderstorm Wind (MG 61 kt)
	09/07/12 21:02 CST		0	Source: Trained Spotter

A wind gust to 70 mph was measured by a trained spotter. There were downed tree limbs and power outages.

<b>DAVIESS COUNTY --- OWENSBORO [37.77, -87.12]</b>				
	09/07/12 21:05 CST		0	Heavy Rain
	09/07/12 21:05 CST		0	Source: Trained Spotter

Localized street flooding was reported. Some streets were borderline impassable.

<b>TRIGG COUNTY --- FENTON [36.78, -88.10]</b>				
	09/07/12 21:29 CST		0	Thunderstorm Wind (MG 53 kt)
	09/07/12 21:29 CST		0	Source: Trained Spotter

A wind gust to 61 mph was measured in the Land Between the Lakes National Recreation Area.

<b>TRIGG COUNTY --- CADIZ [36.87, -87.82]</b>				
	09/07/12 21:32 CST		10K	Thunderstorm Wind (EG 50 kt)
	09/07/12 21:32 CST		0	Source: Emergency Manager

Power lines were blown down.

**An extensive squall line crossed western Kentucky, producing strong to severe wind gusts along its path. Thunderstorms were organized into bowing line segments that moved rapidly east at 50 to 60 mph. The storms occurred along and ahead of a cold front that**

## Storm Data and Unusual Weather Phenomena - September 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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trailed south from a low pressure center near St. Louis. Isolated severe thunderstorm cells developed ahead of the quasi-linear convective system. Moderate instability existed ahead of the line of storms, with capes from 1500 to 2500 j/kg. Wind shear remained more than adequate for organization of the storms, with winds veering vertically in the lowest 3 km.

### HOPKINS COUNTY --- OLNEY [37.22, -87.78]

09/26/12 17:23 CST	0	Hail (1.75 in)
09/26/12 17:23 CST	0	Source: Trained Spotter

Numerous thunderstorms developed during the heat of the afternoon ahead of a weak disturbance moving eastward from the southern Plains. One of the storms produced large hail.

## 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

09/01/12 00:00 CST	0	Drought
09/30/12 23:59 CST	0	

Significant improvement in drought conditions occurred during the month of September. Heavy rain from the remnants of Hurricane Isaac at the start of the month was a notable factor. The extreme to exceptional summer drought gave way to only moderate drought from Cape Girardeau north and west, including Perryville. The area of extreme drought conditions shrank to include only New Madrid and Mississippi Counties in the southeast corner of the state. All other areas of southeast Missouri improved to severe drought conditions by month's end. Soil moisture deficits decreased greatly. By the end of September, soil moisture was near normal. Most of the corn crop was either harvested or plowed under, and corn crop losses were expected to be very high. Estimates on soybean crop losses were not available yet. Numerous counties were declared natural disaster areas earlier in the growing season. Pastures improved, but a majority of them remained in poor or very poor condition. Fire danger decreased significantly, and all bans on outdoor burning were lifted. Streamflows were running about normal. At the Cape Girardeau airport, 6.20 inches of rain fell in September, which was about three inches above normal. The drought began in May and continued into October.

### BUTLER COUNTY --- 4.0 WNW FISK [36.80, -90.29], 2.0 NNW FISK [36.81, -90.23]

09/01/12 15:32 CST	0	Tornado (EF0, L: 2.95 mi , W: 20 yd)
09/01/12 15:39 CST	0	Source: Law Enforcement

A tornado was on the ground between Fisk and Rombauer. The tornado was well-photographed and visible for quite some distance. The tornado occurred over open farm country and caused no significant damage. A trained spotter who photographed the tornado from his residence reported that it stayed on the ground for seven minutes.

### BUTLER COUNTY --- 1.1 E QULIN [36.60, -90.25], 5.0 NE QULIN [36.65, -90.21]

09/01/12 15:43 CST	0	Tornado (EF0, L: 4.29 mi , W: 20 yd)
09/01/12 15:48 CST	0	Source: Trained Spotter

Trained spotters reported a tornado on the ground from around Qulin to several miles northeast of Qulin. The tornado occurred over open farm country and caused no significant damage.

### STODDARD COUNTY --- 5.0 NNW DUDLEY [36.85, -90.13]

09/01/12 15:51 CST	0	Funnel Cloud
09/01/12 15:51 CST	0	Source: Trained Spotter

Trained spotters reported a funnel cloud between Dudley and Puxico.

### BUTLER COUNTY --- 3.8 WSW POPLAR BLUFF [36.74, -90.47], 2.9 SE POPLAR BLUFF [36.72, -90.36], 0.7 NW (P02)POPLAR BLUFF AR [36.78, -90.34], 3.3 SSW HILLARD [36.79, -90.44]

09/01/12 16:35 CST	10K	Flash Flood (due to Heavy Rain)
09/01/12 19:00 CST	0	Source: Law Enforcement

Motorists were stranded in floodwaters in Poplar Bluff. Street flooding was extensive. The automated observation system at the airport measured 1.94 inches in just one hour.

### MISSISSIPPI COUNTY --- 7.9 NNW ALFALFA CENTER [37.07, -89.27]

09/01/12 18:40 CST	0	Funnel Cloud
09/01/12 18:40 CST	0	Source: Public

## Storm Data and Unusual Weather Phenomena - September 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A funnel cloud was reported by the general public.

The remnants of Hurricane Isaac brought numerous thunderstorms with isolated tornadoes. A southwesterly low level jet around 40 knots persisted along the southeastern flank of the circulation from Isaac. The stronger low level winds were co-located with an axis of moderate instability, where mixed-layer capes ranged from 1500 to 2000 j/kg. Within this region, a few discrete supercells developed along low level convergence bands from northeastern Arkansas to southeast Missouri.

**(MO-Z100) WAYNE, (MO-Z107) CARTER, (MO-Z108) RIPLEY, (MO-Z109) BUTLER, (MO-Z110) STODDARD, (MO-Z114) NEW MADRID**

09/05/12 11:00 CST	0	Heat
09/05/12 17:00 CST	0	

The heat index rose above 105 degrees for several hours across parts of southeast Missouri, mainly along and west of a line from Dexter to New Madrid. The heat index peaked at 112 degrees at Poplar Bluff. Actual high temperatures were in the lower to mid 90's. Southeast Missouri was on the northern periphery of a strong mid-level ridge that extended from west to east across the southern states.

**RIPLEY COUNTY --- FAIRDEALING [36.67, -90.62]**

09/05/12 14:10 CST	0	Hail (0.75 in)
09/05/12 14:10 CST	0	Source: Post Office

**RIPLEY COUNTY --- 4.0 NE DONIPHAN [36.66, -90.77]**

09/05/12 14:20 CST	0	Hail (1.00 in)
09/05/12 14:20 CST	0	Source: Trained Spotter

Thunderstorms increased in coverage and strength during the late afternoon in a zone of strong instability along the southern edge of the westerly jetstream. Thunderstorms that occurred over Illinois and Indiana earlier in the day left an outflow boundary that extended from west-northwest to east-southeast across southeast Missouri. This boundary enhanced thunderstorm development. Rich low level moisture and steep lapse rates fostered isolated severe weather events until the atmosphere stabilized toward sunset.

**(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**

09/06/12 03:00 CST	0	Dense Fog
09/06/12 07:30 CST	0	

Widespread dense fog blanketed most of southeast Missouri, with the exception of Mississippi and New Madrid Counties in the extreme southeast. Visibility dropped to one-quarter mile or less for several hours. The fog occurred with a very weak southerly wind flow of moist air ahead of a weak cold front. The front extended from central Illinois to south central Missouri.

**WAYNE COUNTY --- 3.0 WNW PIEDMONT MUNI ARPT [37.14, -90.77], 4.0 ENE PIEDMONT [37.19, -90.65]**

09/06/12 15:29 CST	25K	Thunderstorm Wind (EG 61 kt)
09/06/12 15:36 CST	0	Source: Law Enforcement

Numerous trees were blown down in northwestern parts of the county. In particular, trees were down around Highway HH at Clearwater Dam. Tree limbs and whole trees were on roads in the Piedmont area. A car crashed into a downed tree near Piedmont, causing major injuries (indirect).

**CARTER COUNTY --- VAN BUREN [37.00, -91.02]**

09/06/12 15:31 CST	10K	Thunderstorm Wind (EG 52 kt)
09/06/12 15:31 CST	0	Source: Law Enforcement

Power lines and tree limbs were blown down.

**WAYNE COUNTY --- 1.6 N PATTERSON [37.20, -90.57], 2.2 W LODI [37.25, -90.49]**

09/06/12 15:36 CST	10K	Thunderstorm Wind (EG 56 kt)
09/06/12 15:42 CST	0	Source: Law Enforcement

Numerous trees were blown down in north central Wayne County, including areas along Highway 143 at Sam A. Baker State Park.

**BOLLINGER COUNTY --- MARBLE HILL [37.30, -89.97]**

09/06/12 16:10 CST	20K	Thunderstorm Wind (EG 56 kt)
09/06/12 16:10 CST	0	Source: COOP Observer

Numerous trees were down in and around the city limits.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>BOLLINGER COUNTY --- ZALMA [37.15, -90.08]</b>				
	09/06/12 16:15 CST		5K	Thunderstorm Wind (EG 52 kt)
	09/06/12 16:15 CST		0	Source: COOP Observer
Several trees were blown down by wind gusts estimated around 60 mph.				
<b>STODDARD COUNTY --- PAXICO [36.95, -90.17]</b>				
	09/06/12 16:20 CST		5K	Thunderstorm Wind (EG 52 kt)
	09/06/12 16:20 CST		0	Source: Law Enforcement
Several trees were blown down.				
<b>STODDARD COUNTY --- BELL CITY [37.03, -89.83]</b>				
	09/06/12 16:30 CST		15K	Thunderstorm Wind (EG 56 kt)
	09/06/12 16:30 CST		0	Source: Law Enforcement
Numerous trees were blown down.				
<b>STODDARD COUNTY --- BLOOMFIELD [36.90, -89.92]</b>				
	09/06/12 16:30 CST		5K	Thunderstorm Wind (EG 52 kt)
	09/06/12 16:30 CST		0	Source: Law Enforcement
Several trees were blown down.				
<b>SCOTT COUNTY --- ORAN [37.08, -89.67], BLODGETT [37.00, -89.53]</b>				
	09/06/12 16:42 CST		30K	Thunderstorm Wind (EG 52 kt)
	09/06/12 16:57 CST		0	Source: Law Enforcement
Damaging winds raked western Scott County. Several trees were blown down in Oran and Blodgett, including at least one that was over a road. A tree was down on a power line in Blodgett. In Morley, a power line was down on a house, causing a house fire.				
<b>CAPE GIRARDEAU COUNTY --- CAPE GIRARDEAU [37.30, -89.53]</b>				
	09/06/12 16:50 CST		5K	Thunderstorm Wind (EG 52 kt)
	09/06/12 16:50 CST		0	Source: Newspaper
Trees and power lines were down on a city street.				
<b>SCOTT COUNTY --- BLODGETT [37.00, -89.53]</b>				
	09/06/12 17:00 CST		0	Hail (1.00 in)
	09/06/12 17:00 CST		0	Source: Broadcast Media
<b>MISSISSIPPI COUNTY --- WYATT [36.92, -89.22]</b>				
	09/06/12 17:31 CST		5K	Thunderstorm Wind (EG 52 kt)
	09/06/12 17:31 CST		0	Source: Emergency Manager
A single-axle truck was blown over on U.S. Highway 60/62.				
<b>A maturing mesoscale convective system progressed east-southeastward, producing areas of wind damage. The thunderstorm complex increased in size and accelerated as it evolved. Strongly unstable air and rich moisture ahead of the complex supported its increase in size and intensity. Steep mid-level lapse rates coupled with 20 to 35 knots of mid level flow yielded an increase in damaging winds with the complex. Weak ascent within the southern branch of the jetstream supported the formation of the system. In its wake, temperatures in the 60's in the cold pool kept the movement of the system accelerating east-southeast.</b>				
<b>BOLLINGER COUNTY --- 3.0 W PATTON [37.50, -90.07], SEDGEWICKVILLE [37.52, -89.92]</b>				
	09/07/12 17:30 CST		20K	Thunderstorm Wind (EG 56 kt)
	09/07/12 17:45 CST		0	Source: Emergency Manager
Numerous trees were down in the northern half of the county. Many of the trees landed on roads, including Highways 72 and 51.				
<b>CAPE GIRARDEAU COUNTY --- 1.8 W POCAHONTAS [37.50, -89.68]</b>				

## Storm Data and Unusual Weather Phenomena - September 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	09/07/12 17:49 CST		5K	Thunderstorm Wind (EG 52 kt)
	09/07/12 17:49 CST		0	Source: Emergency Manager

A large highway sign was blocking one lane of Interstate 55 at the Oak Ridge exit, which is the Route E interchange.

### BOLLINGER COUNTY --- ZALMA [37.15, -90.08]

09/07/12 19:02 CST		10K	Thunderstorm Wind (EG 52 kt)
09/07/12 19:02 CST		0	Source: Emergency Manager

Trees were reported down by an emergency management official.

### BOLLINGER COUNTY --- 4.0 SE PATTON [37.46, -89.97]

09/07/12 19:09 CST		0	Funnel Cloud
09/07/12 19:09 CST		0	Source: Emergency Manager

An extensive squall line crossed southeast Missouri, producing strong to severe wind gusts along its path. Most of the damaging wind gusts were north of a line from Cape Girardeau to Greenville. Thunderstorms were organized into bowing line segments that moved rapidly east at 50 to 60 mph. The storms occurred along and ahead of a cold front that trailed south from a low pressure center near St. Louis. Moderate instability existed ahead of the line of storms, with capes from 1500 to 2500 j/kg. Wind shear remained more than adequate for organization of the storms, with winds veering vertically in the lowest 3 km.

### BUTLER COUNTY --- 7.0 NW POPLAR BLUFF [36.82, -90.49]

09/26/12 12:43 CST		0	Hail (0.75 in)
09/26/12 12:43 CST		0	Source: Trained Spotter

### WAYNE COUNTY --- WAPPAPELLO [36.93, -90.28]

09/26/12 13:09 CST		0	Hail (0.75 in)
09/26/12 13:11 CST		0	Source: Trained Spotter

Dime-size hail lasted approximately two minutes on the north end of Lake Wappapello Dam.

### BUTLER COUNTY --- 1.0 NW BROSELEY [36.69, -90.26]

09/26/12 15:27 CST		0	Hail (1.25 in)
09/26/12 15:27 CST		0	Source: Law Enforcement

The hail was reported at the intersection of Highway AA and County Road 629.

### NEW MADRID COUNTY --- 6.0 W RISCO [36.57, -89.93]

09/26/12 15:34 CST		0	Hail (0.75 in)
09/26/12 15:34 CST		0	Source: Trained Spotter

Strong to severe thunderstorm cells increased ahead of an eastward moving upper-level disturbance over the southern Plains. A few of the storms became severe during the heat of the afternoon. The primary type of severe weather was large hail.