

## Storm Data and Unusual Weather Phenomena - June 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>ILLINOIS, South</b>				
<b>WAYNE COUNTY --- 2.0 NNW GEFF [38.48, -88.41], CISNE [38.52, -88.43]</b>				
	06/02/09 16:31 CST		10K	Thunderstorm Wind (EG 52 kt)
	06/02/09 16:45 CST		0	Source: Emergency Manager
A tree and a power pole blew down at Cisne. Just north and northwest of Geff, shingles were blown off and fences were down.				
Thunderstorms developed ahead of upper level impulses over far southeast Iowa and southwest Missouri. The atmosphere became quite unstable, with mixed layer CAPE values approaching 3000 late in the afternoon. This instability, along with 20 to 30 knots of deep layer wind shear, favored a few multicell severe storms with damaging winds.				
<b>PERRY COUNTY --- 0.9 WSW PINCKNEYVILLE [38.07, -89.39]</b>				
	06/08/09 18:32 CST		20K	Thunderstorm Wind (EG 61 kt)
	06/08/09 18:38 CST		0	Source: NWS Storm Survey
The sheet metal roof was blown off a large shed or storage building. A large oak tree about 80 feet tall was uprooted and landed on a back porch, destroying it.				
<b>PERRY COUNTY --- 2.7 NW SUNFIELD [38.10, -89.26], 2.5 NW SUNFIELD [38.10, -89.26]</b>				
	06/08/09 18:42 CST		4K	Tornado (EF0, L: 0.44 mi , W: 100 yd)
	06/08/09 18:43 CST		0	Source: NWS Storm Survey
A small shed was overturned. Several trees and limbs were downed. Peak winds were estimated near 70 mph in this small tornado.				
<b>PERRY COUNTY --- 4.0 NW DU QUOIN [38.06, -89.28], OLD DUQUOIN [37.97, -89.18]</b>				
	06/08/09 18:46 CST		1.30M	Thunderstorm Wind (EG 65 kt)
	06/08/09 19:10 CST	2	0	Source: NWS Storm Survey
Downburst winds affected a swath of eastern and southern Perry County. The heart of the damage swath cut a path through the northeast and east sides of DuQuoin. The average path width was three-quarters of a mile. The damage path length was about six miles long. Many dozens to hundreds of trees were down on homes, vehicles, power lines, and other structures. Eight homes received major damage, and 82 others had minor damage. Nine vehicles were destroyed. A large portion of the metal roof was blown off a large industrial building. A semi trailer was overturned. Approximately 40 power poles were destroyed. Up to 1200 citizens were without power. There were two minor injuries due to falling debris. Peak winds were estimated near 75 mph.				
<b>PERRY COUNTY --- 3.0 E DU QUOIN [38.02, -89.17], 1.4 ENE OLD DUQUOIN [37.98, -89.16]</b>				
	06/08/09 19:00 CST		20K	Tornado (EF1, L: 3.23 mi , W: 300 yd)
	06/08/09 19:08 CST		0	Source: NWS Storm Survey
This tornado downed hundreds of trees over rural Perry County. The tornado was embedded within an area of widespread straight-line wind damage. Peak winds were estimated near 95 mph close to the Franklin County border along Route 14. The average path width was about 200 yards. The tornado continued into western Franklin County.				
<b>FRANKLIN COUNTY --- 0.9 NW REND CITY [38.04, -88.99]</b>				
	06/08/09 19:05 CST		0	Hail (1.00 in)
	06/08/09 19:05 CST		0	Source: Trained Spotter
<b>FRANKLIN COUNTY --- 2.4 WNW ZEIGLER [37.91, -89.09], 5.0 SE SESSER [38.05, -88.98]</b>				
	06/08/09 19:05 CST		10K	Thunderstorm Wind (EG 56 kt)
	06/08/09 19:12 CST		0	Source: NWS Storm Survey
Many trees and tree limbs were down in western Franklin County. At least one home received siding damage. Power lines were down. A spotter estimated peak winds near 65 mph southeast of Sesser.				
<b>FRANKLIN COUNTY --- 2.0 WNW MULKEYTOWN [37.98, -89.16], 1.3 SW MULKEYTOWN [37.96, -89.14]</b>				
	06/08/09 19:08 CST		6K	Tornado (EF1, L: 1.59 mi , W: 100 yd)
	06/08/09 19:12 CST		0	Source: NWS Storm Survey
The tornado continued into Franklin County from Perry County. Many trees were blown down. The tornado was embedded within a much broader area of straight-line wind damage to trees. Peak winds were estimated near 85 mph in this portion of the track.				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>FRANKLIN COUNTY --- 0.9 NE ROYALTON [37.88, -89.11]</b>				
	06/08/09 19:28 CST		0	Hail (0.75 in)
	06/08/09 19:28 CST		0	Source: Trained Spotter
<b>WILLIAMSON COUNTY --- HERRIN [37.80, -89.03]</b>				
	06/08/09 19:52 CST		0	Hail (0.88 in)
	06/08/09 19:52 CST		0	Source: Trained Spotter
<b>WILLIAMSON COUNTY --- 5.0 E CARTERVILLE [37.75, -88.99]</b>				
	06/08/09 19:56 CST		0	Hail (1.00 in)
	06/08/09 19:56 CST		0	Source: Emergency Manager
<b>FRANKLIN COUNTY --- ROYALTON [37.87, -89.12], 0.2 SSE MULKEYTOWN [37.97, -89.12]</b>				
	06/08/09 20:03 CST		0	Heavy Rain
	06/08/09 22:45 CST		0	Source: Trained Spotter
Standing water was observed on state highways. Some back roads across the county were impassable due to flooding. City streets in Royalton were particularly affected by high water.				
<b>Thunderstorms rapidly developed along a surface frontal boundary from central Illinois into southern Missouri. Extreme instability and favorable wind shear ahead of the activity promoted organized and isolated supercell storms.</b>				
<b>PULASKI COUNTY --- ULLIN [37.27, -89.18]</b>				
	06/16/09 10:10 CST		0.10M	Thunderstorm Wind (EG 61 kt)
	06/16/09 10:10 CST		0	Source: Broadcast Media
Part of the roof was blown off a school gymnasium, with some damage to at least one wall. Rainwater further damaged the gym floor. The roof of a bus garage behind the gym was damaged. Large tree limbs were down, and playground equipment was blown around. A large metal light pole was blown down.				
<b>WILLIAMSON COUNTY --- 2.0 W CARTERVILLE [37.75, -89.12]</b>				
	06/16/09 10:10 CST		3K	Thunderstorm Wind (EG 50 kt)
	06/16/09 10:10 CST		0	Source: Law Enforcement
Several trees were blown down.				
<b>A line of thunderstorms crossed southern Illinois, then increased in intensity as it moved east across western Kentucky into an increasingly unstable atmosphere. Damaging surface winds were enhanced by a strong 50-knot rear-inflow jet feeding into the complex. Most of the damaging winds occurred south of Illinois.</b>				
<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</b>				
	06/19/09 12:00 CST		0	Heat
	06/19/09 17:00 CST		0	
<b>A ridge of high pressure built north from the Lower Mississippi Valley, keeping a hot and humid air mass over southern Illinois. The afternoon heat index peaked near 105 degrees. Actual air temperatures reached the mid 90's.</b>				
<b>ALEXANDER COUNTY --- THEBES [37.22, -89.47], 0.6 W THEBES JCT [37.20, -89.46], 0.4 WNW THEBES JCT [37.20, -89.46], 0.5 ESE THEBES [37.22, -89.46]</b>				
	06/20/09 18:00 CST		0	Flood (due to Heavy Rain)
	06/23/09 16:00 CST		10K	Source: River/Stream Gage
Minor flooding of the Mississippi River occurred, affecting mostly bottomland fields. On the river gage at Thebes, the river crested at 33.64 feet on the 22nd. This was less than a foot above the flood stage of 33 feet.				
<b>A front wavered across the region from the 8th to the 17th, producing daily rounds of showers and thunderstorms. Many of these storms produced rainfall rates of 1 to 3 inches per hour. The Mississippi River rose above flood stage for a few days.</b>				
<b>WABASH COUNTY --- 4.0 N MT CARMEL [38.48, -87.77]</b>				

## Storm Data and Unusual Weather Phenomena - June 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/21/09 18:04 CST		0	Hail (1.00 in)
	06/21/09 18:04 CST		0	Source: Emergency Manager

An isolated severe thunderstorm developed along a stationary frontal zone in southeast Illinois. Deep layer wind shear was marginally favorable for organized storm structures.

(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

06/22/09 12:00 CST	1	0	Heat
06/23/09 16:00 CST		0	

A building dome of high pressure aloft was responsible for near record high temperatures. Combined with high humidity, the heat index soared to between 105 and 110 on the afternoon of the 22nd. In many places, the heat index peaked near 105 on the afternoon of the 23rd. Actual air temperatures reached the mid 90's both days. In Union County, a blind elderly man with Alzheimer's disease wandered from his home and died of heat exhaustion in an open field.

Direct Fatalities: M92OU

**JOHNSON COUNTY --- NEW BURNSIDE [37.58, -88.77]**

06/22/09 15:45 CST		50K	Thunderstorm Wind (EG 52 kt)
06/22/09 15:45 CST		0	Source: Newspaper

Numerous tree limbs and power lines were blown down. At least one tree was uprooted, and it landed on a house. A mobile home was extensively damaged by a fallen tree limb. The county road department cleared roads of downed trees.

Isolated thunderstorms developed in a very unstable air mass to the west of a stationary front that extended from southwest Indiana into Mid Tennessee.

(IL-Z084) JACKSON, (IL-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC

06/26/09 11:00 CST		0	Heat
06/27/09 15:00 CST		0	

A strong dome of high pressure aloft brought very hot and humid conditions. On the afternoon of the 26th, the heat index peaked around 105 degrees in the far southwest corner of Illinois, from Carbondale south and southeast. On the 27th, the heat index peaked around 105 in the southernmost counties near Cairo. Actual high temperatures were in the mid to upper 90's both days.

### INDIANA, Southwest

**PIKE COUNTY --- WINSLOW [38.38, -87.22]**

06/10/09 07:30 EST		0	Heavy Rain
06/10/09 08:00 EST		0	Source: Trained Spotter

Standing water was reported on city streets.

**GIBSON COUNTY --- FT BRANCH [38.25, -87.58]**

06/10/09 14:43 CST		30K	Thunderstorm Wind (EG 56 kt)
06/10/09 14:43 CST		0	Source: Law Enforcement

Numerous power lines were down. Several large tree limbs and a whole large tree were down in the same area.

Isolated severe storms formed in a region of warm air advection ahead of an upper level disturbance. The combination of weak low level veering wind profiles along an east-west stationary front over central Illinois, along with moderate deep westerly wind shear, set the stage for a few semi-discrete supercells.

**POSEY COUNTY --- 1.9 N SOLITUDE [38.05, -87.91]**

06/11/09 14:56 CST		4K	Thunderstorm Wind (EG 52 kt)
06/11/09 14:56 CST		0	Source: Emergency Manager

Trees were blown down between New Harmony and Solitude, closer to Solitude.

**POSEY COUNTY --- 3.0 N MT VERNON [37.97, -87.90]**

## Storm Data and Unusual Weather Phenomena - June 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/11/09 14:58 CST		0	Hail (0.88 in)
	06/11/09 14:58 CST		0	Source: Trained Spotter

### VANDERBURGH COUNTY --- 0.5 W EVANSVILLE [37.98, -87.56]

	06/11/09 15:29 CST		0	Hail (0.88 in)
	06/11/09 15:29 CST		0	Source: Trained Spotter

Nickel size hail fell on the west side of the city.

### SPENCER COUNTY --- 3.0 W EUREKA [37.88, -87.28], 2.5 W EUREKA [37.88, -87.27]

	06/11/09 16:08 CST		0	Tornado (EF0, L: 0.56 mi , W: 100 yd)
	06/11/09 16:10 CST		3K	Source: NWS Storm Survey

This weak tornado continued from Daviess County, Kentucky across the Ohio River into Spencer County. The tornado remained over agricultural river bottomland, causing damage to corn crops and small tree limbs. Peak winds were estimated near 65 mph on this portion of the track.

### SPENCER COUNTY --- 5.0 SW ROCKPORT [37.83, -87.11]

	06/11/09 16:25 CST		0	Hail (0.75 in)
	06/11/09 16:25 CST		0	Source: Trained Spotter

Thunderstorms quickly formed across the Lower Wabash Valley and northwest Kentucky in the vicinity of an eastward moving upper level disturbance. The boundary layer air mass in this region was characterized by temperatures in the lower 80's and dew points in the lower 70's. The combination of a moist low level environment, slightly backed wind flow along a northwest to southeast oriented warm front, and at least 40 knots of deep westerly shear promoted semi-discrete supercells with large hail, damaging winds, and isolated tornadoes.

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

	06/19/09 12:00 CST		0	Heat
	06/19/09 17:00 CST		0	

A ridge of high pressure built north from the Lower Mississippi Valley, keeping a hot and humid air mass over southwest Indiana. The afternoon heat index peaked near 105 degrees. Actual air temperatures reached the lower to mid 90's.

### PIKE COUNTY --- 2.0 W PETERSBURG [38.50, -87.32]

	06/19/09 16:25 EST		4K	Thunderstorm Wind (EG 56 kt)
	06/19/09 16:25 EST		0	Source: Trained Spotter

A livestock trailer was blown over, and a large tree was down.

An isolated severe thunderstorm developed in a hot and very unstable air mass characterized by southwest winds well ahead of a cold front over the central Plains.

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

	06/20/09 01:20 CST		10K	Thunderstorm Wind (EG 52 kt)
	06/20/09 01:20 CST		0	Source: Law Enforcement

Three trees were blown down in the Owensville area. One tree fell onto a house.

A cold front accelerated east-southeast, overtaking a southwest to northeast oriented confluence zone and its associated thunderstorms. This resulted in an intensification of the storms. Low to mid level unidirectional westerly wind flow between 40 and 50 knots resulted in bowing line segments with isolated damage. This occurred despite relatively more stable air during the early morning hours.

### PIKE COUNTY --- 2.4 NE PETERSBURG [38.53, -87.25], 2.0 NNE PETERSBURG [38.52, -87.26], 1.0 NNW PETERSBURG [38.51, -87.29], 0.8 NNW PETERSBURG [38.51, -87.29]

	06/21/09 00:01 EST		0	Flood (due to Heavy Rain)
	06/22/09 22:00 EST		10K	Source: River/Stream Gage

Minor flooding of the White River occurred. At the Petersburg gage, the river crested at 16.40 feet around 6 P.M. on the 21st. Flood stage there is 16 feet. Minor flooding of bottomland fields occurred.

The track of thunderstorm complexes became nearly stationary across southwest Indiana from the 9th through the 19th. The heaviest and most widespread rain of the month occurred from the morning of the 9th through the 11th. General rainfall amounts were from 1 to 3 inches. River levels remained high as an additional 1 to 4 inches fell from the 12th through the 19th.

## Storm Data and Unusual Weather Phenomena - June 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>(IN-Z081) GIBSON, (IN-Z082) PIKE, (IN-Z085) POSEY, (IN-Z086) VANDERBURGH, (IN-Z087) WARRICK, (IN-Z088) SPENCER</b>				
	06/22/09 12:00 CST		0	Heat
	06/23/09 16:00 CST		0	

A building dome of high pressure aloft was responsible for near record high temperatures. Combined with high humidity, the heat index soared to between 105 and 110 on the afternoon of the 22nd. In some places, the heat index peaked near 105 on the afternoon of the 23rd. Actual air temperatures reached the mid 90's both days.

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### GIBSON COUNTY --- FRANCISCO [38.33, -87.45], 3.1 W WHEELING [38.42, -87.51]

06/22/09 15:40 CST	20K	Thunderstorm Wind (EG 50 kt)
06/22/09 15:55 CST	0	Source: Broadcast Media

Trees were down with minor structural damage in Francisco and along Indiana 65 a few miles west of Wheeling.

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### VANDERBURGH COUNTY --- 2.0 NE STACER [38.17, -87.54], 1.0 E DAYLIGHT [38.10, -87.46]

06/22/09 16:10 CST	0.13M	Thunderstorm Wind (EG 83 kt)
06/22/09 16:30 CST	0	Source: NWS Storm Survey

A downburst with peak winds estimated near 95 mph affected an area one mile wide and six miles long. The damage started near the Gibson County line not far from Interstate 64. Many dozens of trees and tree limbs were blown down. Several homes sustained damage, mainly to roofs. Two barns were destroyed. Other farm buildings were damaged. Metal farm bins were partially blown over. Damage near the north end of the track was noticeably divergent.

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### PIKE COUNTY --- 1.6 N IVY [38.52, -87.13], 1.3 SSW OTWELL [38.43, -87.11]

06/22/09 16:30 EST	0.10M	Thunderstorm Wind (EG 78 kt)
06/22/09 16:45 EST	0	Source: NWS Storm Survey

A microburst with peak winds estimated near 90 mph affected an area one and a quarter miles wide and five miles long. One vacant mobile home was overturned. Several homes and buildings received minor roof damage, typically partial shingle loss. Dozens of trees and limbs were blown down. Highways 56 and 356 were blocked for a time. The biggest obstruction was on Highway 356 about a quarter-mile west of Highway 257, where downed trees, power lines, and power poles blocked the road for about nine hours. Several power lines were down. A car port was destroyed.

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

06/22/09 16:40 CST	80K	Thunderstorm Wind (MG 64 kt)
06/22/09 16:52 CST	0	Source: Trained Spotter

Numerous large trees and branches were blown down. Numerous streets were blocked by fallen limbs. Tree limbs fell on at least several houses. Siding was torn off houses. A gust to 74 mph was measured by a spotter overlooking the Ohio River at the old Newburgh Dam.

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### POSEY COUNTY --- GRIFFIN [38.20, -87.92]

06/22/09 17:55 CST	30K	Thunderstorm Wind (EG 52 kt)
06/22/09 17:55 CST	0	Source: Emergency Manager

A couple of homes were damaged by falling trees, along with a couple of pickup trucks.

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### POSEY COUNTY --- 2.0 E MT VERNON [37.93, -87.86], 1.5 ENE MT VERNON ARPT [37.94, -87.85]

06/22/09 18:00 CST	60K	Thunderstorm Wind (MG 53 kt)
06/22/09 18:00 CST	0	Source: Emergency Manager

A wind gust to 61 mph was measured. A pole barn was destroyed. Trees were blown down. Some of the downed trees landed on power lines, knocking out power for several hours.

**Thunderstorms developed along a northwestward arcing outflow boundary from near Nashville, TN towards Evansville, IN. The atmosphere immediately to the west of this boundary became very unstable as strong afternoon heating pushed temperatures into the lower to mid 90's. As the storms organized into a well-defined complex, they accelerated toward the south-southeast. The accelerating storm complex produced locally damaging winds.**

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## KENTUCKY, Southwest

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### DAVIESS COUNTY --- OWENSBORO [37.77, -87.12]

## Storm Data and Unusual Weather Phenomena - June 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/03/09 13:15 CST		0	Hail (0.75 in)
	06/03/09 13:15 CST		0	Source: Emergency Manager
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<b>BALLARD COUNTY --- 2.7 S OSCAR [37.09, -89.04]</b>				
	06/03/09 14:50 CST		0	Heavy Rain
	06/03/09 16:30 CST		0	Source: Law Enforcement
State police reported flooding on Highway 1105.				
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<b>HOPKINS COUNTY --- MADISONVILLE [37.33, -87.50]</b>				
	06/03/09 15:26 CST		0	Lightning
	06/03/09 15:26 CST	1	0	Source: Newspaper
A UPS truck driver was struck by lightning as he stepped down from his truck while making a delivery. He was treated and released from the local emergency room.				
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<b>CHRISTIAN COUNTY --- HOPKINSVILLE [36.85, -87.48]</b>				
	06/03/09 15:42 CST		0	Heavy Rain
	06/03/09 17:30 CST		0	Source: Trained Spotter
A city street was under water at a railroad overpass.				
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<b>MUHLBERG COUNTY --- GREENVILLE [37.20, -87.18], 1.3 SE LUZERNE [37.21, -87.20], 2.1 ENE BANCROFT [37.19, -87.22], 2.1 S GREENVILLE [37.17, -87.18]</b>				
	06/03/09 16:37 CST		0	Flash Flood (due to Heavy Rain)
	06/03/09 18:00 CST		0	Source: Trained Spotter
Several creeks were beginning to overflow onto the roadway.				
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<b>HOPKINS COUNTY --- 1.0 NE EARLINGTON [37.28, -87.51], 1.0 ESE EARLINGTON [37.27, -87.50], 0.8 SSE DAWSON SPGS [37.16, -87.69], 1.8 N DAWSON SPGS [37.20, -87.70]</b>				
	06/03/09 16:45 CST		0	Flash Flood (due to Heavy Rain)
	06/03/09 18:30 CST		0	Source: Trained Spotter
Several roads in the Earlington area were covered with water at least three inches deep. Several roads in the city of Dawson Springs were impassable. A mesonet site near Madisonville reported 0.94 inches in 30 minutes, and a total of 2.97 inches in three hours.				
<b>Thunderstorms developed near a southward moving cold front under marginally strong deep layer wind shear. The combination of effective shear of 30 to 35 knots and moderate instability supported isolated storms that were near severe levels. Some of the storms produced very heavy rain that caused localized flooding.</b>				
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<b>MCCRACKEN COUNTY --- (PAH)BARKLEY ARPT PA [37.07, -88.77]</b>				
	06/08/09 21:48 CST		0	Thunderstorm Wind (MG 56 kt)
	06/08/09 21:48 CST		0	Source: ASOS
The automated observing system at Barkley Regional Airport measured a wind gust to 64 mph. A few large tree limbs were blown down in the area.				
<b>Thunderstorms rapidly developed along a surface frontal boundary from central Illinois into southern Missouri. Extreme instability and favorable wind shear ahead of the activity promoted organized and isolated supercell storms. As the storms crossed the Ohio River into western Kentucky, they weakened quickly, but not before producing a microburst near Paducah.</b>				
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<b>DAVISS COUNTY --- 1.0 E (OWB)OWENSBORO ARPT [37.75, -87.15]</b>				
	06/11/09 15:21 CST		0	Hail (1.00 in)
	06/11/09 15:21 CST		0	Source: Public
Quarter size hail was reported east of the Owensboro-Daviess County airport.				
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<b>WEBSTER COUNTY --- CLAY [37.48, -87.83]</b>				
	06/11/09 16:01 CST		0	Funnel Cloud
	06/11/09 16:01 CST		0	Source: Trained Spotter
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<b>WEBSTER COUNTY --- CLAY [37.48, -87.83]</b>				

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	06/11/09 16:01 CST		0	Thunderstorm Wind (EG 52 kt)
	06/11/09 16:01 CST		0	Source: Trained Spotter

A spotter estimated winds gusted to 60 mph.

<b>HENDERSON COUNTY --- 0.6 N CARLINBURG [37.89, -87.32], 0.9 ENE CARLINBURG [37.89, -87.31]</b>				
	06/11/09 16:02 CST		0	Tornado (EF0, L: 0.73 mi , W: 150 yd)
	06/11/09 16:04 CST		0	Source: NWS Storm Survey

One tree and dozens of tree limbs were blown down in a tree row in the center of a very large field. The damage was in agricultural bottomland of the Ohio River. Peak winds in this portion of the track were near 65 mph. The tornado continued into Daviess County.

<b>DAVIESS COUNTY --- 3.9 N NEWMAN [37.89, -87.31], 3.6 NNE NEWMAN [37.88, -87.28]</b>				
	06/11/09 16:04 CST		0	Tornado (EF0, L: 1.69 mi , W: 100 yd)
	06/11/09 16:08 CST		10K	Source: NWS Storm Survey

This weak tornado continued from Henderson County into northwest Daviess County. The tornado remained over agricultural river bottomland. Only some crops were damaged. One-foot high corn was blown down and whipped around by winds estimated around 75 mph. The tornado continued across the Ohio River into Spencer County, Indiana.

<b>DAVIESS COUNTY --- 1.0 NW STANLEY [37.83, -87.26]</b>				
	06/11/09 16:05 CST		0	Hail (1.75 in)
	06/11/09 16:05 CST		0	Source: NWS Storm Survey

<b>DAVIESS COUNTY --- 1.0 W OWENSBORO [37.77, -87.14], 1.0 E OWENSBORO [37.77, -87.10]</b>				
	06/11/09 16:25 CST		0	Hail (2.75 in)
	06/11/09 16:37 CST		0	Source: Trained Spotter

A swath of very large hail crossed the city of Owensboro. Hail was reported up to quarter size on the west side of the city, up to golf ball size downtown, and baseball size on the east side.

<b>DAVIESS COUNTY --- OWENSBORO [37.77, -87.12]</b>				
	06/11/09 16:30 CST		0	Heavy Rain
	06/11/09 17:30 CST		0	Source: Trained Spotter

Torrential rain resulted in widespread street flooding.

<b>DAVIESS COUNTY --- 2.0 E OWENSBORO [37.77, -87.08]</b>				
	06/11/09 16:34 CST		0	Thunderstorm Wind (MG 77 kt)
	06/11/09 16:34 CST		0	Source: Trained Spotter

The 89 mph wind gust was measured on the east side of the city.

<b>DAVIESS COUNTY --- 1.8 NE THURSTON [37.82, -87.01], 2.0 NE THURSTON [37.82, -87.01]</b>				
	06/11/09 16:36 CST		0	Tornado (EF0, L: 0.22 mi , W: 30 yd)
	06/11/09 16:37 CST		0	Source: NWS Storm Survey

There were multiple reports of a brief tornado touchdown near the intersection of Highways 405 and 1831. Some tree limbs were down.

**Thunderstorms quickly formed across the Lower Wabash Valley and northwest Kentucky in the vicinity of an eastward moving upper level disturbance. The boundary layer air mass in this region was characterized by temperatures in the lower 80's and dew points in the lower 70's. The combination of a moist low level environment, slightly backed wind flow along a northwest to southeast oriented warm front, and at least 40 knots of deep westerly shear promoted semi-discrete supercells with large hail, damaging winds, and isolated tornadoes.**

<b>BALLARD COUNTY --- KEVIL [37.08, -88.90]</b>				
	06/16/09 10:34 CST		0	Thunderstorm Wind (EG 52 kt)
	06/16/09 10:34 CST		0	Source: NWS Employee

An off-duty meteorologist estimated winds gusted to 60 mph.

<b>CARLISLE COUNTY --- 0.9 S MAGEE SPGS [36.91, -88.92]</b>				
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## Storm Data and Unusual Weather Phenomena - June 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/16/09 10:40 CST		4K	Lightning
	06/16/09 10:40 CST		0	Source: Fire Department/Rescue
Lightning took out power lines at the junction of U.S. Highway 62 and Highway 121.				
<hr/>				
<b>MCCRACKEN COUNTY --- 2.7 E CAMELIA [37.02, -88.73], 1.8 WNW MASSAC [37.03, -88.71]</b>				
	06/16/09 10:45 CST		10K	Thunderstorm Wind (EG 56 kt)
	06/16/09 10:46 CST		0	Source: Emergency Manager
Shingles were blown off a large section of the roof of a restaurant. A nearby tree was blown down, blocking one lane of a road. Large limbs were blown down. An off-duty meteorologist estimated winds gusted to 60 mph in the same general area.				
<hr/>				
<b>GRAVES COUNTY --- SEDALIA [36.65, -88.60]</b>				
	06/16/09 11:10 CST		8K	Thunderstorm Wind (EG 52 kt)
	06/16/09 11:10 CST		0	Source: Trained Spotter
A tree and utility pole was blown down.				
<hr/>				
<b>LYON COUNTY --- 1.9 NNE EUREKA [37.04, -88.20], 2.1 NE EUREKA [37.04, -88.20]</b>				
	06/16/09 11:28 CST		70K	Tornado (EF1, L: 0.34 mi , W: 90 yd)
	06/16/09 11:29 CST		0	Source: NWS Storm Survey
The tornado touched down along a rural road, not far from the intersection of U.S. Highways 62 and 641. Three barns or farm outbuildings were nearly destroyed. Four 1500-pound hay bales were tossed end over end. Metal debris was thrown into trees at a 90-degree angle to the left of the path. Large hardwood trees and other trees were uprooted. Small limbs were broken out of some trees halfway up. A power pole was pushed over. An eyewitness reported a sudden increase in whirling debris. Peak winds were estimated near 105 mph.				
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<b>CHRISTIAN COUNTY --- 2.0 S FIDELIO [36.70, -87.46], 2.8 NE HERNDON [36.75, -87.53]</b>				
	06/16/09 11:58 CST		50K	Thunderstorm Wind (MG 55 kt)
	06/16/09 12:10 CST		0	Source: Trained Spotter
Damaging winds occurred in the Oak Grove area, southwest of Hopkinsville. A wind gust to 63 mph was measured at the junction of Interstate 24 and Highway 107 southwest of Hopkinsville. Numerous trees were down, blocking roads. Shingles were off some roofs. Interstate signs were blown down, partially blocking the intersection of Interstate 24 and Highway 41A.				
<hr/>				
<b>CHRISTIAN COUNTY --- CROFTON [37.05, -87.48]</b>				
	06/16/09 12:03 CST		10K	Thunderstorm Wind (EG 52 kt)
	06/16/09 12:03 CST		0	Source: Trained Spotter
Trees were down, blocking at least two roads.				
<hr/>				
<b>TODD COUNTY --- GUTHRIE [36.65, -87.17], ALLENSVILLE [36.72, -87.07]</b>				
	06/16/09 12:30 CST		10K	Thunderstorm Wind (EG 52 kt)
	06/16/09 12:40 CST		0	Source: Newspaper
Downed tree limbs and power lines were reported.				
<hr/>				
<b>TODD COUNTY --- ELKTON [36.82, -87.15]</b>				
	06/16/09 12:35 CST		10K	Lightning
	06/16/09 12:35 CST		0	Source: Newspaper
Lightning struck the 911 dispatch center, knocking out the dispatch consoles and phone lines. Lightning was blamed for a nearby garage fire that occurred about the same time.				
<b>A bowing line of thunderstorms increased in intensity as it moved east across western Kentucky into an increasingly unstable atmosphere. Damaging surface winds were enhanced by a strong 50-knot rear-inflow jet feeding into the complex.</b>				
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<b>MUHLENBERG COUNTY --- GREENVILLE [37.20, -87.18], CENTRAL CITY [37.30, -87.13]</b>				
	06/17/09 13:35 CST		0	Heavy Rain
	06/17/09 14:45 CST		0	Source: Law Enforcement
Four to six inches of water were on city streets in Greenville. Minor flooding of several streets occurred in Central City.				

## Storm Data and Unusual Weather Phenomena - June 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>MUHLENBERG COUNTY --- GREENVILLE [37.20, -87.18]</b>				
	06/17/09 13:45 CST		0	Hail (0.88 in)
	06/17/09 13:45 CST		0	Source: Law Enforcement
<b>DAVIESS COUNTY --- OWENSBORO [37.77, -87.12]</b>				
	06/17/09 15:02 CST		0	Hail (1.00 in)
	06/17/09 15:02 CST		0	Source: Trained Spotter
Quarter size hail was reported between the by-pass and the downtown area.				
<b>TODD COUNTY --- FAIRVIEW [36.85, -87.30]</b>				
	06/17/09 17:40 CST		0	Hail (1.75 in)
	06/17/09 17:47 CST		30K	Source: Newspaper
Crops were badly damaged by hail. A field of young corn was beaten and shredded by the hail, and a wheat crop was damaged. Other damaged crops included tobacco, vegetables, and fruit.				
<b>CHRISTIAN COUNTY --- 2.9 SSW HONEY GROVE [36.84, -87.32]</b>				
	06/17/09 17:42 CST		0	Hail (1.75 in)
	06/17/09 17:47 CST		0	Source: Trained Spotter
<b>CHRISTIAN COUNTY --- PEMBROKE [36.78, -87.35]</b>				
	06/17/09 18:00 CST		0	Heavy Rain
	06/17/09 23:00 CST		0	Source: Public
Torrential rains occurred, with an evening rainfall amount of three inches reported by the general public.				
<b>TODD COUNTY --- TRENTON [36.72, -87.27]</b>				
	06/17/09 18:06 CST		0	Funnel Cloud
	06/17/09 18:06 CST		0	Source: Fire Department/Rescue
<b>TODD COUNTY --- 0.8 W HERMAN [36.73, -87.18], 0.7 WSW HERMAN [36.73, -87.18]</b>				
	06/17/09 18:25 CST		5K	Tornado (EF0, L: 0.19 mi , W: 30 yd)
	06/17/09 18:26 CST		0	Source: Emergency Manager
A small tornado briefly touched down along Highway 181 halfway between the communities of Elkton and Guthrie. Numerous trees were down along Highway 181. The touchdown occurred in wooded areas and open farm fields.				
<b>TODD COUNTY --- 0.9 NNE PINCHEM [36.71, -87.19]</b>				
	06/17/09 18:45 CST		0	Heavy Rain
	06/17/09 19:45 CST		0	Source: Emergency Manager
Four inches of standing water was observed on the ground between Elkton and Guthrie.				
<b>TODD COUNTY --- 2.0 SW TRENTON [36.70, -87.30]</b>				
	06/17/09 18:47 CST		0	Hail (1.25 in)
	06/17/09 18:47 CST		0	Source: Emergency Manager
<b>CHRISTIAN COUNTY --- PEMBROKE [36.78, -87.35]</b>				
	06/17/09 19:03 CST		0	Hail (0.88 in)
	06/17/09 19:03 CST		0	Source: Trained Spotter
<b>CHRISTIAN COUNTY --- OAK GROVE [36.67, -87.43]</b>				
	06/17/09 19:10 CST		0	Hail (1.00 in)
	06/17/09 19:10 CST		0	Source: Trained Spotter
<b>CHRISTIAN COUNTY --- OAK GROVE [36.67, -87.43]</b>				
	06/17/09 19:10 CST		25K	Thunderstorm Wind (EG 52 kt)
	06/17/09 19:20 CST		0	Source: Emergency Manager

## Storm Data and Unusual Weather Phenomena - June 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A tree fell on a truck. A storage barn roof and doors were blown off.

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**TRIGG COUNTY --- CALEDONIA [36.82, -87.68]**

	06/17/09 19:35 CST	0	Hail (0.75 in)
	06/17/09 19:35 CST	0	Source: Trained Spotter

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**TRIGG COUNTY --- 0.3 WNW MONTGOMERY [36.88, -87.73]**

	06/17/09 21:25 CST	0	Hail (1.00 in)
	06/17/09 21:25 CST	0	Source: Trained Spotter

Quarter size hail was reported on Interstate 24 at the Cadiz exit (U.S. Highway 68).

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**CALDWELL COUNTY --- PRINCETON [37.12, -87.87]**

	06/17/09 21:50 CST	0	Hail (1.00 in)
	06/17/09 21:54 CST	0	Source: Law Enforcement

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**CALDWELL COUNTY --- 1.9 SE DULANEY [37.08, -87.94], 1.2 NNW CEDAR BLUFF [37.10, -87.84], 0.9 NW FARMERSVILLE [37.21, -87.89], 2.2 SE FLAT ROCK [37.21, -87.92]**

	06/17/09 22:22 CST	0	Flash Flood (due to Heavy Rain)
	06/18/09 01:00 CST	0	Source: Trained Spotter

Widespread flooding was reported throughout Princeton. Several streets were impassable and closed, and water neared a few homes. A mesonet site at Princeton recorded 3.34 inches in just over three hours. Widespread street flooding occurred throughout the community of Farmersville.

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**TRIGG COUNTY --- 2.2 N TRIGG FURNACE [36.91, -87.92]**

	06/18/09 00:48 CST	3K	Thunderstorm Wind (EG 50 kt)
	06/18/09 00:48 CST	0	Source: Law Enforcement

Several trees were blown down.

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**UNION COUNTY --- MORGANFIELD [37.68, -87.92]**

	06/18/09 02:05 CST	0	Hail (1.75 in)
	06/18/09 02:05 CST	0	Source: Broadcast Media

Thunderstorms developed in the vicinity of a surface front extending westward from central Kentucky into far southern Illinois. The air mass became very unstable in this region, where mixed layer CAPES were from 3000 to 4000. Strengthening deep layer wind shear supported organized severe storms as the activity spread east-southeast.

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

	06/19/09 12:00 CST	0	Heat
	06/19/09 17:00 CST	0	

A ridge of high pressure built north from the Lower Mississippi Valley, keeping a hot and humid air mass over northwest Kentucky. The afternoon heat index peaked near 105 degrees. Actual air temperatures reached the lower to mid 90's.

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**HENDERSON COUNTY --- HENDERSON ARPT [37.80, -87.68]**

	06/20/09 17:50 CST	2K	Thunderstorm Wind (MG 54 kt)
	06/20/09 17:50 CST	0	Source: AWOS

A wind gust to 62 mph was measured at the Henderson City-County Airport. A hangar door was blown off.

An isolated severe thunderstorm developed along a stalled frontal boundary that extended from west to east across extreme southern Indiana and southern Illinois. The atmosphere was very moist and unstable.

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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**

	06/22/09 12:00 CST	0	Heat
	06/23/09 16:00 CST	0	

A building dome of high pressure aloft was responsible for near record high temperatures. Combined with high humidity, the heat

## Storm Data and Unusual Weather Phenomena - June 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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index soared to between 105 and 110 on the afternoon of the 22nd. In many places, the heat index peaked near 105 on the afternoon of the 23rd. Actual air temperatures reached the mid to upper 90's both days.

**MUHLENBERG COUNTY --- BREMEN [37.37, -87.22]**

	06/22/09 18:00 CST		0	Heavy Rain
	06/22/09 19:00 CST		0	Source: Trained Spotter

A spotter measured 1.14 inches of rain in less than an hour.

**MUHLENBERG COUNTY --- BREMEN [37.37, -87.22], 2.0 E BREMEN [37.37, -87.18]**

	06/22/09 18:00 CST		5K	Thunderstorm Wind (EG 52 kt)
	06/22/09 18:00 CST		0	Source: Trained Spotter

At least a couple of small to medium size trees were blown down, including one that was across a road. A metal roof was blown off a garage east of Bremen.

**UNION COUNTY --- 3.0 N MORGANFIELD [37.72, -87.92], MORGANFIELD [37.68, -87.92]**

	06/22/09 18:40 CST		0.20M	Thunderstorm Wind (EG 65 kt)
	06/22/09 18:40 CST		10K	Source: Trained Spotter

Substantial damage occurred in downtown Morganfield. Large trees were uprooted. Several metal roofs were torn off businesses and apartments. Downtown business fronts were damaged, and a few partially collapsed. Roof debris became entangled in power lines. Two windows were blown out of a furniture store. Utility poles were snapped. Kentucky Route 56 was closed downtown because of street lamps on the ground, downed trees, and roof debris. A few miles north of Morganfield, strong winds downed a large tree and some tree limbs up to 2 inches in diameter.

**HOPKINS COUNTY --- DAWSON SPGS [37.17, -87.70]**

	06/22/09 19:22 CST		10K	Thunderstorm Wind (EG 52 kt)
	06/22/09 19:22 CST		0	Source: Trained Spotter

A trained spotter reported street signs were blown down and tree debris was in roadways. Winds were estimated near 60 mph.

**Thunderstorms developed along a northwestward arcing outflow boundary from near Nashville, TN towards Evansville, IN. The atmosphere immediately to the west of this boundary became very unstable as strong afternoon heating pushed temperatures into the lower to mid 90's. As the storms organized into a well-defined complex, they accelerated toward the south-southeast. The accelerating storm complex produced locally damaging winds.**

**MCCRACKEN COUNTY --- LONE OAK [37.03, -88.67], 1.0 S LONE OAK [37.02, -88.67]**

	06/22/09 22:00 CST		10K	Thunderstorm Wind (EG 52 kt)
	06/22/09 22:00 CST		0	Source: Trained Spotter

Two empty large swimming pools were blown over. An awning was ripped apart. Several large tree branches were blown down.

**Isolated thunderstorms developed in a very unstable air mass to the west of a stationary front that extended from southwest Indiana into Mid Tennessee.**

**(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**

	06/26/09 11:00 CST		0	Heat
	06/27/09 16:00 CST		0	

**A strong dome of high pressure aloft brought very hot and humid conditions. The heat index on both afternoons peaked around 105 degrees in the far west part of Kentucky, from Kentucky Lake west. Actual high temperatures were in the mid to upper 90's both days.**

**BALLARD COUNTY --- 2.0 S BARLOW [37.02, -89.05]**

	06/30/09 18:08 CST		0	Hail (1.00 in)
	06/30/09 18:08 CST		0	Source: Law Enforcement

**CALLOWAY COUNTY --- 0.7 W MURRAY [36.62, -88.33], 3.1 NE MIDWAY [36.58, -88.28]**

	06/30/09 19:00 CST		0.50M	Thunderstorm Wind (EG 91 kt)
	06/30/09 19:05 CST		0	Source: NWS Storm Survey

## Storm Data and Unusual Weather Phenomena - June 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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An intense microburst carved a damage swath from northwest to southeast across the city of Murray. The damage path was about 3.5 miles long and three-quarters of a mile wide. The damage began on the northwest side of town and ended near Highway 121 just southeast of town. Significant structural damage occurred as a result of peak winds estimated up to 105 mph in a very small area. The vast majority of the damage was from winds of 60 to 80 mph. Damage at Murray State University included a damaged dorm wall and many trees down. Windows were blown out on campus. Debris was blown onto cars in the campus parking lots, damaging vehicles. A batting cage at the college was blown several hundred yards into the parking lot of a bank. An Office Depot store on the north side of town along U.S. Highway 641 sustained minor to moderate roof damage. The roofs of several other buildings, including a Dollar General store, were damaged at a shopping plaza on Highway 641 in town. Much of the roof damage was minor, consisting of cosmetic materials. Debris from stores in the plaza damaged cars in a nearby parking lot. The most significant structural damage occurred to a couple of storage buildings, where roofs were blown off. The door was blown off a movie theater. Numerous trees were blown down in the city, including some that landed on houses. Downed trees and power poles blocked streets, including some major ones. In city parks, batting cages and a baseball dugout were damaged or destroyed. Power lines were down. A couple of empty 15,000-pound semi trailers were overturned.

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### CALLOWAY COUNTY --- MURRAY [36.62, -88.32]

06/30/09 19:00 CST			0	Hail (1.00 in)
06/30/09 19:00 CST			0	Source: Public

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### TODD COUNTY --- 1.0 N CLIFTY [36.99, -87.15]

06/30/09 19:34 CST			0	Hail (1.00 in)
06/30/09 19:34 CST			0	Source: Trained Spotter

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### TRIGG COUNTY --- 2.0 S CERULEAN [36.94, -87.72]

06/30/09 19:40 CST			0	Hail (1.00 in)
06/30/09 19:40 CST			0	Source: Law Enforcement

Severe thunderstorms developed along a southeastward moving cold front during the warmest and most unstable time of day. An upper level shortwave rotating southeast around an upper level low over the Great Lakes enhanced storm development. Deep layer wind shear was unseasonably strong due to the proximity of the deep upper low.

## MISSOURI, Southeast

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### WAYNE COUNTY --- GREENVILLE [37.13, -90.47]

06/08/09 19:34 CST			0	Hail (1.00 in)
06/08/09 19:34 CST			0	Source: Trained Spotter

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### WAYNE COUNTY --- GREENVILLE [37.13, -90.47]

06/08/09 19:35 CST			10K	Thunderstorm Wind (EG 52 kt)
06/08/09 19:35 CST			0	Source: Newspaper

Trees were down, and power outages occurred.

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### WAYNE COUNTY --- WILLIAMSVILLE [36.97, -90.55]

06/08/09 20:00 CST			10K	Thunderstorm Wind (EG 52 kt)
06/08/09 20:00 CST			0	Source: Newspaper

Numerous trees were blown down.

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

06/08/09 20:10 CST			0	Hail (0.88 in)
06/08/09 20:10 CST			0	Source: Trained Spotter

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### BUTLER COUNTY --- 4.3 WNW POPLAR BLUFF [36.76, -90.48], 3.5 N HARVIELL [36.72, -90.47]

06/08/09 20:40 CST			15K	Thunderstorm Wind (EG 52 kt)
06/08/09 20:40 CST			0	Source: Law Enforcement

A tree was blown down, blocking Highway 160. A vehicle crashed into the tree, but no injuries occurred. Power lines were down west of Poplar Bluff.

Thunderstorms rapidly developed along a surface frontal boundary from central Illinois into southern Missouri. Extreme instability and favorable wind shear ahead of the activity promoted organized and isolated supercell storms.

## Storm Data and Unusual Weather Phenomena - June 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>CARTER COUNTY --- 5.0 W HUNTER [36.88, -90.94]</b>				
	06/09/09 17:38 CST		0	Funnel Cloud
	06/09/09 17:38 CST		0	Source: Public
This funnel cloud was associated with a long-lived rotating wall cloud that later tracked across the Ellsinore area.				
<b>CARTER COUNTY --- 0.9 NE VAN BUREN [37.01, -91.01], 0.9 SSE VAN BUREN MUNI ARPT [36.99, -90.99], 0.7 SSW VAN BUREN [36.99, -91.03], 0.6 NNW VAN BUREN [37.01, -91.02]</b>				
	06/09/09 18:02 CST		0	Flash Flood (due to Heavy Rain)
	06/09/09 18:45 CST		0	Source: Law Enforcement
Several streets had at least one-half foot of water over them.				
<b>BUTLER COUNTY --- 7.0 E NEELYVILLE [36.57, -90.37]</b>				
	06/09/09 19:20 CST		0	Hail (0.75 in)
	06/09/09 19:20 CST		0	Source: Trained Spotter
Isolated supercells along a stalled front drifted east across southeast Missouri.				
<b>CAPE GIRARDEAU COUNTY --- 1.1 ESE GULF JCT [37.26, -89.53], 1.7 ESE GULF JCT [37.26, -89.52], 0.8 SE CAPE GIRARDEAU [37.29, -89.52], 1.1 S CAPE GIRARDEAU [37.28, -89.53]</b>				
	06/18/09 19:00 CST		0	Flood (due to Heavy Rain)
	06/24/09 19:00 CST		10K	Source: River/Stream Gage
Minor flooding of the Mississippi River occurred, affecting mostly bottomland fields. On the river gage at Cape Girardeau, the river crested at 34.49 feet on the 21st. This was about 2.5 feet above the flood stage of 32 feet.				
A front wavered across the region from the 8th to the 17th, producing daily rounds of showers and thunderstorms. Many of these storms produced rainfall rates of 1 to 3 inches per hour. The Mississippi River rose above flood stage for a few days.				
<b>(MO-Z076) PERRY, (MO-Z086) BOLLINGER, (MO-Z087) CAPE GIRARDEAU</b>				
	06/19/09 12:00 CST		0	Heat
	06/19/09 17:00 CST		0	
A ridge of high pressure built north from the Lower Mississippi Valley, keeping a hot and humid air mass over parts of southeast Missouri. The afternoon heat index peaked near 105 degrees. Actual air temperatures reached the mid 90's.				
<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>				
	06/22/09 11:00 CST		30K	Heat
	06/23/09 15:00 CST		0	
A building dome of high pressure aloft was responsible for near record high temperatures. Combined with high humidity, the heat index soared to between 105 and 110 on the afternoon of the 22nd and again on the afternoon of the 23rd. Actual air temperatures reached the mid to upper 90's both days. The heat caused some concrete roadways to buckle. The Dexter office of the Missouri Department of Transportation reported 26 incidents of highway concrete joints expanding and rupturing. Three of them were on U.S. Highway 60 west of Dexter in Stoddard County. Three others were on Highway 25 in the Dexter and Bloomfield areas.				
<b>CAPE GIRARDEAU COUNTY --- 1.0 N CAPE GIRARDEAU [37.31, -89.53]</b>				
	06/22/09 21:51 CST		10K	Thunderstorm Wind (EG 52 kt)
	06/22/09 21:51 CST		0	Source: Trained Spotter
Numerous trees and power lines were brought down. A trained spotter estimated winds gusted to 60 mph.				
Isolated thunderstorms developed in a very unstable air mass to the west of a stationary front that extended from southwest Indiana into Mid Tennessee.				
<b>(MO-Z087) CAPE GIRARDEAU, (MO-Z108) RIPLEY, (MO-Z109) BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID</b>				
	06/26/09 11:00 CST		0	Heat
	06/27/09 16:00 CST		0	

## Storm Data and Unusual Weather Phenomena - June 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A strong dome of high pressure aloft brought very hot and humid conditions. The heat index on both afternoons peaked from 105 to 110 degrees in the far southeast part of Missouri, along and south of a line from Cape Girardeau to Poplar Bluff and Doniphan. Actual high temperatures were in the upper 90's both days.

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**STODDARD COUNTY --- DEXTER [36.80, -89.95]**

	06/26/09 15:55 CST		5K	Thunderstorm Wind (EG 52 kt)
	06/26/09 15:55 CST		0	Source: Trained Spotter

Shingles were blown off a couple houses.

An isolated severe thunderstorm developed in a low level moisture and instability axis located over southeast Missouri and northeast Arkansas ahead of a diffuse front moving slowly south.

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**BUTLER COUNTY --- QULIN [36.60, -90.27]**

	06/30/09 16:24 CST		0	Hail (1.00 in)
	06/30/09 16:24 CST		0	Source: COOP Observer

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**STODDARD COUNTY --- 2.0 N BLOOMFIELD [36.93, -89.92], 3.0 E BLOOMFIELD [36.90, -89.87]**

	06/30/09 17:30 CST		30K	Hail (3.00 in)
	06/30/09 17:35 CST		0	Source: Public

Hailstones measuring 3 inches in diameter were photographed by an observer east of Bloomfield. Vehicles received considerable damage. Golf-ball size hail was reported north of Bloomfield.

Severe thunderstorms developed along a southeastward moving cold front during the warmest and most unstable time of day. An upper level shortwave rotating southeast around an upper level low over the Great Lakes enhanced storm development. Deep layer wind shear was unseasonably strong due to the proximity of the deep upper low.