

Storm Data and Unusual Weather Phenomena - April 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
INDIANA, South Central				
ORANGE COUNTY --- 0.7 N PAOLI [38.56, -86.47]				
	04/16/13 16:26 EST	0		Hail (1.00 in)
	04/16/13 16:26 EST	0		Source: Broadcast Media
One inch hail was reported at Paoli High School.				
WASHINGTON COUNTY --- SALEM [38.60, -86.10]				
	04/16/13 17:12 EST	0		Hail (1.75 in)
	04/16/13 17:12 EST	0		Source: Trained Spotter
A spotter reported 1.75 inch hail in Salem.				
WASHINGTON COUNTY --- SOUTH BOSTON [38.58, -85.98]				
	04/16/13 17:24 EST	0		Hail (1.00 in)
	04/16/13 17:24 EST	0		Source: Broadcast Media
Local media reported 1 inch hail 6 miles east of Salem.				
CRAWFORD COUNTY --- 0.9 NE MARENGO [38.38, -86.34]				
	04/16/13 18:35 EST	0		Hail (1.75 in)
	04/16/13 18:35 EST	0		Source: Trained Spotter
A trained spotter reported golf ball sized hail near Marengo.				
FLOYD COUNTY --- FLOYDS KNOBS [38.32, -85.87]				
	04/16/13 19:24 EST	0		Hail (1.00 in)
	04/16/13 19:24 EST	0		Source: Trained Spotter
A spotter reported 1 inch hail at Floyd Knobs.				
ORANGE COUNTY --- ROLAND [38.60, -86.68]				
	04/16/13 19:26 EST	0		Hail (1.00 in)
	04/16/13 19:26 EST	0		Source: Trained Spotter
A spotter reported 1 inch hail 4 miles northwest of French Lick.				
ORANGE COUNTY --- ROLAND [38.60, -86.68]				
	04/16/13 19:35 EST	0		Hail (1.00 in)
	04/16/13 19:35 EST	0		Source: Trained Spotter
A spotter reported one inch hail near French Lick.				
JEFFERSON COUNTY --- 2.3 NNE NORTH MADISON [38.80, -85.38]				
	04/16/13 19:47 EST	0		Hail (1.00 in)
	04/16/13 19:47 EST	0		Source: Trained Spotter
A spotter reported one inch hail just north of Madison.				
ORANGE COUNTY --- 0.7 N PAOLI [38.56, -86.47]				
	04/16/13 19:52 EST	0		Hail (1.75 in)
	04/16/13 19:52 EST	0		Source: Trained Spotter
A spotter reported 1.75 inch hail in Paoli.				
ORANGE COUNTY --- 0.7 N PAOLI [38.56, -86.47]				
	04/16/13 19:58 EST	0		Hail (1.00 in)
	04/16/13 19:58 EST	0		Source: Trained Spotter
A spotter reported 1 inch hail just east of Paoli.				

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ORANGE COUNTY --- REGO [38.48, -86.32]

04/16/13 20:15 EST	0	Hail (1.00 in)
04/16/13 20:15 EST	0	Source: Public

One inch hail and winds of 40 to 45 mph was reported from a location 10 miles southeast of Paoli.

During the afternoon on April 16th, a stationary front lay across southern Indiana, parallel to and roughly 75 miles north of the Ohio River. South of this boundary, very unstable conditions developed during the afternoon, with CAPE exceeding 2000 Joules. By evening, a weak wave moved northeast across southern Indiana along this boundary. Thunderstorms developed during the evening hours. Moderate unidirectional shear was present, and some of these storms became supercells, with mid-level rotation. Several of these storms produced copious amounts of hail.

FLOYD COUNTY --- GEORGETOWN [38.30, -85.97]

04/17/13 14:40 EST	0	Hail (1.00 in)
04/17/13 14:40 EST	0	Source: Public

The public reported 1 inch hail near Georgetown.

CRAWFORD COUNTY --- 0.5 E ENGLISH [38.33, -86.46]

04/17/13 15:05 EST	0	Hail (1.00 in)
04/17/13 15:05 EST	0	Source: Broadcast Media

Local media reported one inch hail in English.

CRAWFORD COUNTY --- 3.1 W WEST FORK [38.22, -86.59], 2.9 W WEST FORK [38.23, -86.58], 2.8 W WEST FORK [38.22, -86.58], 3.1 W WEST FORK [38.22, -86.59]

04/17/13 16:25 EST	0	Flash Flood (due to Heavy Rain)
04/17/13 16:25 EST	0	Source: Trained Spotter

A spotter reported that several streams rose out of their banks near St Croix. Water briefly blocked several roads. Three separate sources near St Croix, including a CoCoRas observer, reported over 3 inches of rain with this thunderstorm.

Convection earlier in the morning created an outflow boundary that provided a focus for isolated thunderstorm development over southern Indiana during the afternoon on April 17th. One storm that developed over Crawford County, brought large hail and flash flooding. Another produced quarter sized hail to the east in Floyd County.

KENTUCKY, Central

CUMBERLAND COUNTY --- 0.5 SE BURKESVILLE [36.78, -85.36]

04/11/13 14:43 CST	5K	Thunderstorm Wind (EG 52 kt)
04/11/13 14:43 CST	0	Source: Emergency Manager

The Cumberland County Emergency Manager reported some shingles were blown off several houses near the intersection of Free Ferry and Smith Grove Roads. Some cedar trees were downed and some tin was removed from a barn near the same location.

MADISON COUNTY --- 1.6 W WHITES [37.63, -84.33]

04/11/13 17:28 EST	1K	Thunderstorm Wind (MG 53 kt)
04/11/13 17:28 EST	0	Source: AWOS

An AWOS automated weather gauge at the Berea local airport measured a 61 mph wind gust. Nearby, in the town of Berea, gusty winds toppled a couple of shallow rooted trees.

On April 11th, a line of storms weakened during the morning hours as it moved into west central Kentucky. By early afternoon, the remnants of this line hung up over central Kentucky, stretching from the Bluegrass Region southwest to near Bowling Green. East of this area of showers, partial sun and surface temperatures in the middle 70s lead to weak surface based instability. By mid-afternoon, thunderstorms developed across east central Kentucky, along the eastern edge of the rain farther west. Some of these storms produced gusty winds and isolated wind damage.

JEFFERSON COUNTY --- 1.5 NNW AUDUBON PARK [38.22, -85.74]

04/16/13 19:50 EST	0	Hail (1.00 in)
04/16/13 19:50 EST	0	Source: Broadcast Media

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Louisville broadcast media reported 1 inch hail 2 miles northeast of Churchhill Downs.				
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JEFFERSON COUNTY --- 0.9 E (LOU)BOWMAN FLD LOUI [38.23, -85.65]				
	04/16/13 19:55 EST	0		Hail (1.00 in)
	04/16/13 19:55 EST	0		Source: Trained Spotter
A spotter reported hail near Bowman Field.				
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JEFFERSON COUNTY --- 0.7 N JEFFERSONTOWN [38.21, -85.57]				
	04/16/13 20:02 EST	0		Hail (1.00 in)
	04/16/13 20:02 EST	0		Source: NWS Employee
A NWS employee located in Jeffersontown reported 1 inch hail that covered a deck.				
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JEFFERSON COUNTY --- 0.7 N JEFFERSONTOWN [38.21, -85.57]				
	04/16/13 20:03 EST	0		Hail (1.25 in)
	04/16/13 20:03 EST	0		Source: Trained Spotter
A spotter reported 1.25 inch hail near Jeffersontown.				
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JEFFERSON COUNTY --- 1.3 WNW FERN CREEK [38.16, -85.60]				
	04/16/13 20:05 EST	0		Hail (1.00 in)
	04/16/13 20:05 EST	0		Source: Trained Spotter
A spotter in Fern Creek reported 1 inch hail.				
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SPENCER COUNTY --- 0.5 E TAYLORSVILLE [38.03, -85.34]				
	04/16/13 20:20 EST	0		Hail (1.75 in)
	04/16/13 20:20 EST	0		Source: Trained Spotter
A spotter in Taylorsville reported 1.75 inch hail. A second spotter nearby reported 1 inch hail covering the ground.				
<p>During the afternoon on April 16th, a stationary front lay across southern Indiana, parallel to and roughly 75 north of the Ohio River. South of this boundary, very unstable conditions developed during the afternoon, with CAPE exceeding 2000 Joules. By evening, a weak wave moved northeast across southern Indiana along this boundary. Thunderstorms developed across northern Kentucky during the evening hours. Moderate unidirectional shear was present, leading to the development of several supercells with mid-level rotation. Several of these storms produced copious amounts of hail.</p>				
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MADISON COUNTY --- 2.0 S REDHOUSE [37.80, -84.27], 2.0 SSE REDHOUSE [37.80, -84.26], 3.0 WSW UNION CITY [37.78, -84.25], 2.5 NE RICHMOND [37.78, -84.27]				
	04/17/13 10:00 EST	0		Flash Flood (due to Heavy Rain)
	04/17/13 10:00 EST	0		Source: Broadcast Media
Local media relayed a report of flooding on Union City and Red House Roads near Richmond. The emergency manager reported a road closed in Richmond.				
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MADISON COUNTY --- 1.1 E MAYDE [37.60, -84.28], 0.7 ENE MAYDE [37.60, -84.29], 0.8 ENE MAYDE [37.60, -84.29], 1.1 E MAYDE [37.60, -84.28]				
	04/17/13 11:00 EST	0		Flash Flood (due to Heavy Rain)
	04/17/13 11:00 EST	0		Source: Emergency Manager
The Madison County emergency manager reported that a portion of State Highway 25 south of Richmond was closed by high water.				
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MADISON COUNTY --- 2.1 WNW RICHMOND [37.77, -84.33], 1.9 SE MILLION [37.76, -84.35], 1.9 ESE MILLION [37.77, -84.35], 2.2 WNW RICHMOND [37.77, -84.33]				
	04/17/13 11:00 EST	0		Flash Flood (due to Heavy Rain)
	04/17/13 11:00 EST	0		Source: Emergency Manager
Tate's Creek overflowed, briefly closing a portion of Tate's Creek Road.				
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LARUE COUNTY --- 6.0 WSW HODGENVILLE [37.54, -85.85]				
	04/17/13 12:30 EST	0		Hail (1.00 in)
	04/17/13 12:30 EST	0		Source: Trained Spotter
A spotter located 6 miles west-southwest of Hodgenville reported one inch hail.				

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LARUE COUNTY --- MAGNOLIA [37.45, -85.75]				
	04/17/13 12:30 EST		0	Hail (1.00 in)
	04/17/13 12:30 EST		0	Source: Trained Spotter
A spotter reported 1 inch hail around 8 miles south of Hodgenville.				
LARUE COUNTY --- 1.3 WSW TANNER [37.49, -85.80], 1.6 SSE TANNER [37.48, -85.77], 1.2 SE TANNER [37.49, -85.76], 0.8 WSW TANNER [37.50, -85.79]				
	04/17/13 13:35 EST		0	Flash Flood (due to Heavy Rain)
	04/17/13 13:35 EST		0	Source: Public
The public reported water flowing over Cruse Road, located 1 mile north of Maxine. Nearby, at around the same time, a spotter reported water flowing over Parker Grove Road. An unofficial report from the public mentioned that around 5 inches of rain fall within a 2 hour period over an isolated location near Magnolia.				
BRECKINRIDGE COUNTY --- 0.9 NE GARFIELD [37.79, -86.34]				
	04/17/13 14:55 CST		0	Hail (1.75 in)
	04/17/13 14:55 CST		0	Source: Amateur Radio
Ping pong to golf ball sized hail fell in Hensley.				
BRECKINRIDGE COUNTY --- 0.6 W BASIN SPG [37.83, -86.31]				
	04/17/13 15:02 CST		0	Hail (1.00 in)
	04/17/13 15:02 CST		0	Source: Broadcast Media
Broadcast media relayed a report of quarter-sized hail south of Irvington.				
BRECKINRIDGE COUNTY --- IRVINGTON [37.88, -86.28]				
	04/17/13 15:15 CST		0	Hail (1.50 in)
	04/17/13 15:15 CST		0	Source: Amateur Radio
Ping pong sized hail fell in Irvington.				
Isolated storms developed within a highly unstable environment across central Kentucky during the afternoon on April 17th. One storm remained nearly stationary for an hour over southern LaRue County, bringing localized flash flooding. A similar storm in Madison county sent water over roads in and near Richmond.				
WARREN COUNTY --- 0.3 W THREE SPGS [36.92, -86.44], 0.2 WSW THREE SPGS [36.92, -86.43], 0.5 SW THREE SPGS [36.92, -86.44], 0.5 WSW THREE SPGS [36.92, -86.44]				
	04/27/13 20:34 CST		0	Flood (due to Heavy Rain)
	04/27/13 20:34 CST		0	Source: Law Enforcement
Local law enforcement reported that Three Springs Road was briefly closed due to high water.				
WARREN COUNTY --- 1.6 E MEMPHIS JCT [36.95, -86.45], 1.5 E MEMPHIS JCT [36.95, -86.45], 1.4 E MEMPHIS JCT [36.95, -86.45], 1.4 E MEMPHIS JCT [36.95, -86.45]				
	04/27/13 21:00 CST		0	Flood (due to Heavy Rain)
	04/27/13 21:00 CST		0	Source: Law Enforcement
Small House Road in northern Bowling Green had water over the road.				
WARREN COUNTY --- 0.9 WSW ALVATON [36.86, -86.36], 0.7 SSE MASSEYS MILL [36.87, -86.37], 0.8 ESE MASSEYS MILL [36.87, -86.37], 0.3 WNW ALVATON [36.87, -86.36]				
	04/28/13 12:50 CST		0	Flood (due to Heavy Rain)
	04/29/13 14:55 CST		0	Source: River/Stream Gage
Heavy rains on the evening of April 27, led to minor flooding of Drake's Creek at Alvaton. This creek has a flood stage of 22 feet. It reached a crest of 29.1 feet during the early evening hours on the 28th of April.				
WARREN COUNTY --- 1.6 NNE BOWLING GREEN [37.00, -86.42], 1.6 NNE BOWLING GREEN [37.00, -86.42], 1.8 NNE BOWLING GREEN [37.00, -86.42], 1.7 NNE BOWLING GREEN [37.00, -86.42]				

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	04/29/13 08:40 CST		0	Flood (due to Heavy Rain)
	04/29/13 13:25 CST		0	Source: River/Stream Gage

Thunderstorms produced heavy rains across Warren County during the evening of April 27th. This led to minor flooding on the Barren River at Bowling Green. This river crested during the late morning hours on April 29 at 28.1 feet, just above its 28 foot flood stage.

BUTLER COUNTY --- 0.9 ENE WOODBURY [37.19, -86.64], 1.4 ENE WOODBURY [37.19, -86.63], 1.4 ENE WOODBURY [37.18, -86.63], 1.0 E WOODBURY [37.18, -86.63]

	04/29/13 12:00 CST		0	Flood (due to Heavy Rain)
	04/30/13 23:59 CST		0	Source: River/Stream Gage

Heavy rains the evening of April 27th led to minor flooding on the Green River at Woodbury. Flood stage at Woodbury is 33 feet. The river crested at 36 feet during the early afternoon on April 30th. Just before midnight on May 1st, the river had fallen to 35 feet. The river finally fell below flood stage by noon on May 1st.

A low level jet developed during the evening of April 27 across Tennessee. This jet intersected an elevated warm front and brought widespread thunderstorms to northern Tennessee and the southern two tiers of counties across central Kentucky. Spotty flooding developed across southern Kentucky, especially near Bowling Green, where two to three inches of rain fell within a three hour period during the late evening hours. These rains led to subsequent flooding of Drake's Creek near Alvaton, as well as the Barren and Green Rivers, over the next few days.