

## Storm Data and Unusual Weather Phenomena - January 2013

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|----------|-----------|-------------------|---------------------|------------------------|
|----------|-----------|-------------------|---------------------|------------------------|

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### INDIANA, South Central

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**DUBOIS COUNTY --- 0.5 W HUNTINGBURG [38.30, -86.96], 0.6 W HUNTINGBURG [38.30, -86.96], 0.6 W HUNTINGBURG [38.30, -86.96], 0.5 W HUNTINGBURG [38.30, -86.96]**

|  |                    |   |                           |
|--|--------------------|---|---------------------------|
|  | 01/13/13 10:00 EST | 0 | Flood (due to Heavy Rain) |
|  | 01/13/13 10:00 EST | 0 | Source: County Official   |

A Dubois County official reported water across County Road 20W in Huntingburg.

**Unseasonably moist air, combined with a nearly stationary boundary draped from Michigan through western Tennessee, lead to several days of heavy rain across southern Indiana. Over a 4 day period from late Thursday, January 10th through Sunday, three to five inches of rain was recorded. The highest amounts, nearly 3 inches, fell across southwestern Indiana over a 15 hour period ending early Sunday afternoon. This led to some very minor flooding across low water crossings and open fields. Several rivers experienced minor flooding on Sunday and Monday, January 13th and 14th.**

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**ORANGE COUNTY --- 2.3 NNE PROSPECT [38.61, -86.61], 2.5 NNE PROSPECT [38.61, -86.60]**

|  |                    |     |                                      |
|--|--------------------|-----|--------------------------------------|
|  | 01/30/13 01:47 EST | 25K | Tornado (EF0, L: 0.37 mi , W: 75 yd) |
|  | 01/30/13 01:48 EST | 0   | Source: NWS Storm Survey             |

An EF-1 tornado damaged portions of a forest and a residence located just over 3 miles north of West Baden Springs, Indiana. Maximum wind speeds estimated around 85 to 95 mph accompanied this twister, which had a width of 75 yards and a length of 400 yards. EF-1 damage was surveyed at one home, where the roof was badly damaged. The porch of this home was thrown several feet. Several small twigs were driven through this resident's siding.

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**PERRY COUNTY --- 3.3 WNW PERRY CO ARPT [38.03, -86.74]**

|  |                    |     |                              |
|--|--------------------|-----|------------------------------|
|  | 01/30/13 02:02 EST | 20K | Thunderstorm Wind (EG 56 kt) |
|  | 01/30/13 02:02 EST | 0   | Source: Emergency Manager    |

The Perry county emergency manager relayed a report of structural damage to a house. Damage included several walls down on a garage. Some field tanks were also overturned. Several trees were toppled.

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**WASHINGTON COUNTY --- 1.0 WSW HARRISTOWN [38.59, -86.04]**

|  |                    |     |                              |
|--|--------------------|-----|------------------------------|
|  | 01/30/13 03:15 EST | 50K | Thunderstorm Wind (EG 65 kt) |
|  | 01/30/13 03:15 EST | 0   | Source: NWS Storm Survey     |

A storm survey confirmed that straight line winds estimated at 75 mph damaged the roof of a double wide trailer along State Highway 160 east of Salem. One barn was destroyed and another barn was damaged. This downburst covered an area roughly three tenths of a mile long and around 100 feet wide.

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**CLARK COUNTY --- 1.8 ENE BORDEN [38.48, -85.92]**

|  |                    |     |                              |
|--|--------------------|-----|------------------------------|
|  | 01/30/13 04:07 EST | 10K | Thunderstorm Wind (EG 56 kt) |
|  | 01/30/13 04:07 EST | 0   | Source: Public               |

Strong winds associated with a line of storms shifted a barn off of its foundation. Portions of several sheds were blown several hundred feet. Numerous trees were toppled.

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**CLARK COUNTY --- 0.7 N OTISCO [38.54, -85.67]**

|  |                    |   |                              |
|--|--------------------|---|------------------------------|
|  | 01/30/13 04:17 EST | 0 | Thunderstorm Wind (EG 52 kt) |
|  | 01/30/13 04:17 EST | 0 | Source: Trained Spotter      |

A spotter estimated winds of 50 to 60 mph.

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**HARRISON COUNTY --- 0.7 NNE SUGAR GROVE [38.13, -85.91], 1.0 NE SUGAR GROVE [38.13, -85.91]**

|  |                    |     |                                       |
|--|--------------------|-----|---------------------------------------|
|  | 01/30/13 04:17 EST | 40K | Tornado (EF0, L: 0.44 mi , W: 215 yd) |
|  | 01/30/13 04:18 EST | 0   | Source: NWS Storm Survey              |

A weak EF-0 tornado developed 3.2 miles east of Elizabeth, Indiana. It stayed on the ground for nearly 3 miles while crossing the Ohio River and entering southwestern Louisville, Kentucky. While in Indiana, this tornado covered around seven tenths of a mile. In Indiana, four homes and two barns were damaged along Highway 111. The porch of one home was lifted and thrown 30 feet. The walls of one of the barns collapsed in multiple directions. Several trees were downed along the banks of the Ohio River.

**During the evening hours on the 29th of January, low pressure across the southern plains began to intensify and move towards the western Great Lakes. A squall line developed during the evening hours and strengthened after midnight as it moved into western Kentucky and southern Illinois. This line, fueled by unseasonably mild temperatures, dewpoints around 60, and an intense low level jet**

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of 80kt at 850mb, spawned one of the largest January tornado outbreaks on record across the Lower Ohio Valley. Two tornadoes were surveyed across southern Indiana. In addition, strong synoptic southerly winds right ahead and along this line produced localized wind damage.

### KENTUCKY, Central

**WARREN COUNTY --- 1.2 NNE BLUE LEVEL [37.00, -86.52], 1.1 NNE BLUE LEVEL [37.00, -86.52], 1.0 NNE BLUE LEVEL [36.99, -86.52], 1.1 NNE BLUE LEVEL [36.99, -86.52]**

|                    |   |                           |
|--------------------|---|---------------------------|
| 01/13/13 11:48 CST | 0 | Flood (due to Heavy Rain) |
| 01/13/13 11:48 CST | 0 | Source: Public            |

The Public reported that water completely covered Morgantown Road just east of Briggs Hill Road.

**SIMPSON COUNTY --- 1.6 ENE FRANKLIN [36.73, -86.54], 1.7 ENE FRANKLIN [36.73, -86.54], 1.6 NE FRANKLIN [36.73, -86.55], 1.4 ENE FRANKLIN [36.73, -86.55]**

|                    |   |                           |
|--------------------|---|---------------------------|
| 01/13/13 12:15 CST | 0 | Flood (due to Heavy Rain) |
| 01/13/13 12:15 CST | 0 | Source: County Official   |

A county official reported that low water crossings along three roads near Franklin were closed due to high water.

**BUTLER COUNTY --- 1.4 N CASEY [37.35, -86.62], 1.4 N CASEY [37.35, -86.62], 1.4 N CASEY [37.35, -86.61], 1.5 N CASEY [37.35, -86.62]**

|                    |   |                           |
|--------------------|---|---------------------------|
| 01/13/13 13:31 CST | 0 | Flood (due to Heavy Rain) |
| 01/13/13 13:31 CST | 0 | Source: Public            |

Minor flooding brought water over State Highway 340 near Oak Ridge.

**BOURBON COUNTY --- 0.2 N PARIS [38.22, -84.25], 0.3 NNW PARIS [38.22, -84.25], 0.2 WNW PARIS [38.22, -84.25], 0.1 W PARIS [38.22, -84.25]**

|                    |   |                           |
|--------------------|---|---------------------------|
| 01/13/13 23:20 EST | 0 | Flood (due to Heavy Rain) |
| 01/15/13 17:15 EST | 0 | Source: River/Stream Gage |

Several days worth of heavy rain across the Kentucky Bluegrass brought minor flooding to Stoner Creek at Paris. The creek crested at 18.6 feet during the early morning hours on the 14th of January. Flood stage is 18 feet.

**OHIO COUNTY --- 0.2 SSW DAVIDSON [37.55, -86.72], 0.2 S DAVIDSON [37.55, -86.72], 0.2 SW DAVIDSON [37.55, -86.72], 0.2 SSW DAVIDSON [37.55, -86.72]**

|                    |   |                           |
|--------------------|---|---------------------------|
| 01/14/13 01:50 CST | 0 | Flood (due to Heavy Rain) |
| 01/15/13 21:00 CST | 0 | Source: River/Stream Gage |

Heavy rain over several days brought minor river flooding to the Rough River at Dundee. This river crested at 26.5 feet during the evening of January 15th, just barely exceed flood stage, which is 25 feet.

**WARREN COUNTY --- 1.4 N MASSEYS MILL [36.90, -86.38], 1.3 N MASSEYS MILL [36.90, -86.38], 0.9 N MASSEYS MILL [36.89, -86.38], 1.1 N MASSEYS MILL [36.90, -86.38]**

|                    |   |                           |
|--------------------|---|---------------------------|
| 01/14/13 07:25 CST | 0 | Flood (due to Heavy Rain) |
| 01/15/13 02:35 CST | 0 | Source: River/Stream Gage |

Several days of heavy rain ending on January 13th led to minor flooding on Drake's Creek at Alvaton one day later. During the early afternoon on January 14th, Drake's Creek crested at 26.3 feet. Flood stage at Alvaton is 22 feet.

**BUTLER COUNTY --- 0.9 ENE WOODBURY [37.18, -86.64], 1.3 ENE WOODBURY [37.19, -86.63], 1.5 E WOODBURY [37.18, -86.62], 1.0 E WOODBURY [37.18, -86.63]**

|                    |   |                           |
|--------------------|---|---------------------------|
| 01/14/13 18:15 CST | 0 | Flood (due to Heavy Rain) |
| 01/17/13 09:00 CST | 0 | Source: River/Stream Gage |

As a result of several days of heavy rain ending on January 13th, the Green River brought minor flooding to Woodbury. At Woodbury, flood stage is 33 feet. The Green River reached a crest of 36 feet by late afternoon on the 15th.

**NELSON COUNTY --- 1.9 WSW BOSTON [37.77, -85.70], 2.2 WSW BOSTON [37.76, -85.70], 2.2 WSW BOSTON [37.77, -85.71], 1.9 WSW BOSTON [37.77, -85.70]**

|                    |   |                           |
|--------------------|---|---------------------------|
| 01/15/13 06:40 EST | 0 | Flood (due to Heavy Rain) |
| 01/16/13 12:50 EST | 0 | Source: River/Stream Gage |

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| <p>Heavy rain over several days ending on January 13th led to minor flooding on the Rolling Fork River at Boston. The river crested at 36.2 feet during the early evening of the 15th. Flood stage is 35 feet.</p>  |                    |                   |                     |                              |
| <hr/>   |                    |                   |                     |                              |
| <b>BUTLER COUNTY --- 0.7 SE ROCHESTER [37.21, -86.89], 0.3 SSE ROCHESTER [37.22, -86.90], 0.4 ESE ROCHESTER [37.22, -86.89], 0.6 ESE ROCHESTER [37.22, -86.89]</b>  |                    |                   |                     |                              |
|   | 01/15/13 18:15 CST |                   | 0                   | Flood (due to Heavy Rain)    |
|   | 01/18/13 08:30 CST |                   | 0                   | Source: River/Stream Gage    |
| <p>Several days of heavy rain led to minor flooding on the Green River at Rochester Ferry. Flood stage at Rochester Ferry is 17 feet. The Green River crested at 18.6 feet during the evening hours on January 16th.</p>  |                    |                   |                     |                              |
| <p><b>Unseasonably moist air, combined with a nearly stationary boundary draped from Michigan through western Tennessee, lead to several days of heavy rain across west central and central Kentucky. Over a 4 day period from late Thursday, January 10th through Sunday the 14th, 3 to 4 inches of rain were recorded. The highest amounts, around two and one half inches, fell along the Ohio River southwest of Louisville over a 15 hour period ending Sunday afternoon. This led to some very minor flooding across low water crossings and open fields. Several rivers experienced minor flooding on Sunday and Monday, January 13th and 14th.</b></p>  |                    |                   |                     |                              |
| <hr/>   |                    |                   |                     |                              |
| <b>(KY-Z028) HARDIN, (KY-Z063) HART, (KY-Z071) WARREN</b>   |                    |                   |                     |                              |
|   | 01/25/13 05:00 CST |                   | 40K                 | Winter Weather               |
|   | 01/25/13 10:00 CST |                   | 0                   |                              |
| <hr/>   |                    |                   |                     |                              |
| <b>(KY-Z028) HARDIN, (KY-Z063) HART, (KY-Z071) WARREN</b>   |                    |                   |                     |                              |
|   | 01/25/13 05:00 EST |                   | 0.10M               | Winter Weather               |
|   | 01/25/13 10:00 EST |                   | 0                   |                              |
| <hr/>   |                    |                   |                     |                              |
| <b>(KY-Z081) CUMBERLAND, (KY-Z082) CLINTON</b>  |                    |                   |                     |                              |
|   | 01/25/13 05:30 EST |                   | 0                   | Ice Storm                    |
|   | 01/25/13 11:00 EST |                   | 0                   |                              |
| <p>During the early morning hours on January 25, a weak inverted trough associated with the southern branch of the jet stream moved across Tennessee. Ahead of this feature, southerly winds aloft brought a limited amount of moisture northward, overrunning an arctic airmass already in place across the Commonwealth. Light freezing rain began during the early morning hours and overspread southern Kentucky by dawn. Freezing rain fell into very cold dry air with temperatures around 25 degrees, promoting efficient ice accumulations. Overall, rainfall totals ranging from nearly 2 tenths to as much as 4 tenths of an inch brought ice accretions ranging from nearly a tenth of an inch from near Bowling Green eastwards through Casey County to as much as one quarter of an inch over Cumberland and Clinton Counties.</p> |                    |                   |                     |                              |
| <hr/>   |                    |                   |                     |                              |
| <b>OHIO COUNTY --- 1.8 SE WYSOX [37.25, -86.90]</b>   |                    |                   |                     |                              |
|   | 01/30/13 02:18 CST |                   | 0                   | Thunderstorm Wind (EG 52 kt) |
|   | 01/30/13 02:18 CST |                   | 0                   | Source: Emergency Manager    |
| <p>Ohio County emergency management reported several trees downed near the small town of Wysox.</p>   |                    |                   |                     |                              |
| <hr/>   |                    |                   |                     |                              |
| <b>MEADE COUNTY --- BATTLETOWN [38.07, -86.30]</b>  |                    |                   |                     |                              |
|   | 01/30/13 02:35 EST |                   | 0                   | Thunderstorm Wind (EG 52 kt) |
|   | 01/30/13 02:35 EST |                   | 0                   | Source: Trained Spotter      |
| <p>A spotter reported that a line of storms downed several trees in the Battletown area.</p>  |                    |                   |                     |                              |
| <hr/>   |                    |                   |                     |                              |
| <b>BRECKINRIDGE COUNTY --- 1.4 N FALLS OF ROUGH [37.60, -86.55]</b>   |                    |                   |                     |                              |
|   | 01/30/13 02:42 CST |                   | 0                   | Thunderstorm Wind (EG 52 kt) |
|   | 01/30/13 02:42 CST |                   | 0                   | Source: Emergency Manager    |
| <p>The Breckinridge emergency manager reported several trees down near the town of Falls of Rough.</p>  |                    |                   |                     |                              |
| <hr/>   |                    |                   |                     |                              |
| <b>GRAYSON COUNTY --- CANEYVILLE [37.42, -86.50]</b>  |                    |                   |                     |                              |
|   | 01/30/13 02:44 CST |                   | 10K                 | Thunderstorm Wind (EG 52 kt) |
|   | 01/30/13 02:44 CST |                   | 0                   | Source: Law Enforcement      |
| <p>Law enforcement reported that a small detached garage blew onto a road.</p>  |                    |                   |                     |                              |
| <hr/>   |                    |                   |                     |                              |
| <b>ALLEN COUNTY --- 1.1 E ALLEN SPGS [36.83, -86.30]</b>  |                    |                   |                     |                              |

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| Location | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details       |
|----------|--------------------|-------------------|---------------------|------------------------------|
|          | 01/30/13 03:37 CST |                   | 0                   | Thunderstorm Wind (EG 52 kt) |
|          | 01/30/13 03:37 CST |                   | 0                   | Source: NWS Storm Survey     |

A storm survey found that many trees were downed in this location. This spot was a portion of a 16 mile long swath of intermittent tree damage caused by estimated 50 to 70 mph winds.

### ALLEN COUNTY --- 2.3 N HALIFAX [36.86, -86.22]

|  |                    |  |     |                              |
|--|--------------------|--|-----|------------------------------|
|  | 01/30/13 03:37 CST |  | 15K | Thunderstorm Wind (EG 61 kt) |
|  | 01/30/13 03:37 CST |  | 0   | Source: Public               |

A barn along Ray Williams road two miles west of Settle was completely destroyed.

### ALLEN COUNTY --- 2.2 SW SETTLE [36.86, -86.21]

|  |                    |  |     |                              |
|--|--------------------|--|-----|------------------------------|
|  | 01/30/13 03:38 CST |  | 15K | Thunderstorm Wind (EG 61 kt) |
|  | 01/30/13 03:38 CST |  | 0   | Source: Public               |

Three homes had roof damage near Settle. Fifteen trees were also downed.

### WARREN COUNTY --- 0.5 ESE OAKLAND [37.03, -86.24], 1.5 E SMITHS GROVE [37.05, -86.19]

|  |                    |  |       |                                       |
|--|--------------------|--|-------|---------------------------------------|
|  | 01/30/13 03:38 CST |  | 0.40M | Tornado (EF2, L: 2.96 mi , W: 250 yd) |
|  | 01/30/13 03:41 CST |  | 0     | Source: NWS Storm Survey              |

An EF-2 tornado touched down just to the east of Interstate 65 around 3 miles southwest of Smith's Grove. After damaging several outbuildings, it encountered a set of 4 grain silos just to the south of Glasgow Road. It destroyed all 4 silos and threw their remains several hundred yards to the east. The tornado stayed on the ground for 3 miles, eventually crossing Interstate 65 just south of Smith's Grove. This tornado overturned a semi-trailer on the interstate. Before lifting up just to the east of Smith's Grove, it destroyed an older wooden barn and a large well constructed dairy barn, ripping steel I-beams out of their concrete base, scattering its roof, and collapsing its southern and eastern cinder block walls.

### ALLEN COUNTY --- 1.8 ENE OAK FOREST [36.73, -86.07]

|  |                    |  |    |                              |
|--|--------------------|--|----|------------------------------|
|  | 01/30/13 03:40 CST |  | 5K | Thunderstorm Wind (EG 52 kt) |
|  | 01/30/13 03:40 CST |  | 0  | Source: County Official      |

An Allen County official reported that several barns had roof damage along Pitchford Ridge Road.

### ALLEN COUNTY --- ADOLPHUS [36.65, -86.25]

|  |                    |  |    |                              |
|--|--------------------|--|----|------------------------------|
|  | 01/30/13 03:40 CST |  | 5K | Thunderstorm Wind (EG 52 kt) |
|  | 01/30/13 03:40 CST |  | 0  | Source: Public               |

Estimated 60 mph winds near Adolphus tore a portion of a barn's roof off.

### EDMONSON COUNTY --- 0.4 WSW ROCKY HILL [37.07, -86.14], 2.4 NE ROCKY HILL [37.09, -86.10]

|  |                    |  |     |                                       |
|--|--------------------|--|-----|---------------------------------------|
|  | 01/30/13 03:42 CST |  | 80K | Tornado (EF1, L: 2.77 mi , W: 100 yd) |
|  | 01/30/13 03:44 CST |  | 0   | Source: NWS Storm Survey              |

A circulation embedded within a squall line that earlier produced an EF-2 tornado in Warren County spawned a second tornado that briefly touched down in Rocky Hill. It then lifted and touched down again around one mile to the northeast. Along its second track, which was around seven tenths of a mile, it snapped several trees within two long rows of trees along fence lines. Near the end of its path, along Louisville Road, it tore half the roof off of a home and destroyed a nearby barn.

### BARREN COUNTY --- 2.0 SSW FINNEY [36.89, -86.11]

|  |                    |  |     |                              |
|--|--------------------|--|-----|------------------------------|
|  | 01/30/13 03:43 CST |  | 20K | Thunderstorm Wind (EG 52 kt) |
|  | 01/30/13 03:43 CST |  | 0   | Source: NWS Storm Survey     |

One hundred feet of metal roofing was ripped off a large boat shelter at a marina on Barren River Lake. Roof and dock damage to the marina office was also sustained, along with uprooted trees in the vicinity.

### BARREN COUNTY --- 1.1 W ETOILE [36.83, -85.90]

|  |                    |  |   |                              |
|--|--------------------|--|---|------------------------------|
|  | 01/30/13 03:45 CST |  | 0 | Thunderstorm Wind (MG 54 kt) |
|  | 01/30/13 03:45 CST |  | 0 | Source: COOP Observer        |

A COOP observer measured a 54 knot wind gust.

### BARREN COUNTY --- 0.7 S PARK CITY [37.09, -86.05]

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|--|--------------------|-------------------|---------------------|---------------------------------------|
|  | 01/30/13 03:46 CST |                   | 0                   | Thunderstorm Wind (EG 52 kt)          |
|  | 01/30/13 03:46 CST |                   | 0                   | Source: NWS Storm Survey              |
| A storm survey found several downed trees near Park City, in western Barren County. This damage was within a larger swath of damage caused by estimated 50 to 70 mph winds.                  |                    |                   |                     |                                       |
| <b>BARREN COUNTY --- 1.2 NE ROCKY HILL [36.94, -86.06], 1.5 NE ROCKY HILL [36.95, -86.05]</b>  |                    |                   |                     |                                       |
|  | 01/30/13 03:49 CST |                   | 0                   | Tornado (EF1, L: 0.34 mi , W: 50 yd)  |
|  | 01/30/13 03:50 CST |                   | 0                   | Source: NWS Storm Survey              |
| A short-lived EF-1 tornado destroyed a well built barn and knocked down several trees along Finney Road, located a mile east of the small town of Rocky Hill.                                |                    |                   |                     |                                       |
| <b>BARREN COUNTY --- 1.5 NNE HAYWOOD [36.97, -85.96]</b>   |                    |                   |                     |                                       |
|  | 01/30/13 03:51 CST |                   | 20K                 | Thunderstorm Wind (EG 60 kt)          |
|  | 01/30/13 03:51 CST |                   | 0                   | Source: Emergency Manager             |
| The Barren County emergency manager reported that a barn was blown over. Another nearby barn had roof damage. Nearby, several trees were downed along State Highway 25 southwest of Glasgow. |                    |                   |                     |                                       |
| <b>HART COUNTY --- 1.5 NNE VENTO [37.44, -85.89]</b>   |                    |                   |                     |                                       |
|  | 01/30/13 03:55 CST |                   | 0                   | Thunderstorm Wind (EG 52 kt)          |
|  | 01/30/13 03:55 CST |                   | 0                   | Source: NWS Employee                  |
| A National Weather Service employee reported trees down along Interstate 65 four miles south of Upton.   |                    |                   |                     |                                       |
| <b>BARREN COUNTY --- 0.8 ESE CAVE CITY [37.13, -85.96]</b>   |                    |                   |                     |                                       |
|  | 01/30/13 03:56 CST |                   | 30K                 | Thunderstorm Wind (EG 65 kt)          |
|  | 01/30/13 03:56 CST |                   | 0                   | Source: NWS Storm Survey              |
| The roof was ripped off the metal shop of an auto dealership on the south side of Cave City, and a barn was destroyed on the east side of town.  |                    |                   |                     |                                       |
| <b>BARREN COUNTY --- 0.9 NE CAVE CITY [37.14, -85.96]</b>  |                    |                   |                     |                                       |
|  | 01/30/13 03:56 CST |                   | 0                   | Thunderstorm Wind (MG 51 kt)          |
|  | 01/30/13 03:56 CST |                   | 0                   | Source: Trained Spotter               |
| <b>BARREN COUNTY --- 1.8 NW GLASGOW [37.00, -85.92]</b>  |                    |                   |                     |                                       |
|  | 01/30/13 03:56 CST |                   | 0                   | Thunderstorm Wind (EG 52 kt)          |
|  | 01/30/13 03:56 CST |                   | 0                   | Source: Public                        |
| The public reported that a downed telephone pole blocked Highway 1297 just north of Highway 1297 in Glasgow.   |                    |                   |                     |                                       |
| <b>HART COUNTY --- 2.2 WSW SEYMOUR [37.16, -85.86], 0.7 NE HARDYVILLE [37.26, -85.79]</b>  |                    |                   |                     |                                       |
|  | 01/30/13 03:56 CST |                   | 30K                 | Thunderstorm Wind (EG 65 kt)          |
|  | 01/30/13 03:56 CST |                   | 0                   | Source: Emergency Manager             |
| Several barns sustained wind damage ranging from peeled metal roof panels to complete collapse along and west of U.S. Highway 31E from the Barren County border to near Hardyville.          |                    |                   |                     |                                       |
| <b>BARREN COUNTY --- 4.0 S ROSEVILLE [36.82, -85.92]</b>   |                    |                   |                     |                                       |
|  | 01/30/13 03:59 CST |                   | 0                   | Thunderstorm Wind (MG 54 kt)          |
|  | 01/30/13 03:59 CST |                   | 0                   | Source: COOP Observer                 |
| An observer measured a 62 mph wind gust.   |                    |                   |                     |                                       |
| <b>MEADE COUNTY --- 1.9 NE BUCK GROVE [37.94, -86.10], 1.8 SSE BRANDENBURG STATION [37.95, -86.09]</b>   |                    |                   |                     |                                       |
|  | 01/30/13 04:05 EST |                   | 50K                 | Tornado (EF0, L: 1.00 mi , W: 200 yd) |
|  | 01/30/13 04:06 EST |                   | 0                   | Source: NWS Storm Survey              |

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|--|--------------------|----------------------|------------------------|---------------------------------------|
| <p>A storm survey revealed that an EF-0 tornado with estimated 80 mph winds and a width of 200 yards struck Meade County around 5.7 miles southeast of Brandenburg. Initially, this tornado touched down in a grove of trees near the end of Kurtz Drive. It then damaged several homes on Kurtz Drive and near the intersection of Thornhill Drive and Gaines Road. One owner of a home east of Gaines Road mentioned that water was evacuated from all 4 toilets as the tornado passed by. Local residents reported a loud roar. Another home along Gaines Road has its front door pulled off. Before lifting right off Tom Cain Road, the tornado damaged a small shed.</p> |                    |                      |                        |                                       |
| <hr/>  |                    |                      |                        |                                       |
| <b>HARDIN COUNTY --- 0.9 SE (FTK)GODMAN AAF FT K [37.89, -85.96]</b>   | 01/30/13 04:12 EST |                      | 0                      | Thunderstorm Wind (MG 50 kt)          |
|  | 01/30/13 04:12 EST |                      | 0                      | Source: Mesonet                       |
| <p>The ASOS at Fort Knox measured a 58 mph wind gust.</p>  |                    |                      |                        |                                       |
| <hr/>  |                    |                      |                        |                                       |
| <b>METCALFE COUNTY --- 1.1 W EDMONTON [36.98, -85.62]</b>  | 01/30/13 04:17 CST |                      | 2K                     | Thunderstorm Wind (EG 52 kt)          |
|  | 01/30/13 04:17 CST |                      | 0                      | Source: Public                        |
| <p>Several trees and power lines were downed in Edmonton. A small outbuilding was blown onto a street.</p>   |                    |                      |                        |                                       |
| <hr/>  |                    |                      |                        |                                       |
| <b>JEFFERSON COUNTY --- 1.7 N VALLEY VLG [38.12, -85.91], 0.5 SSW SYLVANIA [38.14, -85.87]</b>   | 01/30/13 04:18 EST |                      | 75K                    | Tornado (EF0, L: 2.23 mi , W: 215 yd) |
|  | 01/30/13 04:19 EST |                      | 0                      | Source: NWS Storm Survey              |
| <p>An EF-0 tornado that started in Harrison County, Indiana and crossed the Ohio River ended in the Pleasure Ridge Park area of southwest Louisville. The total path length in Kentucky was 2.25 miles. Overall, the entire path length of this tornado, including the portion in Indiana, was 2.8 miles. While in Kentucky, this twister did roof and siding damage to many homes in the Greenridge Estates subdivision in addition to uprooting several trees.</p>   |                    |                      |                        |                                       |
| <hr/>  |                    |                      |                        |                                       |
| <b>JEFFERSON COUNTY --- 1.6 W (SDF)STANIFORD FLD L [38.18, -85.76]</b>   | 01/30/13 04:26 EST |                      | 0                      | Thunderstorm Wind (EG 52 kt)          |
|  | 01/30/13 04:26 EST |                      | 0                      | Source: County Official               |
| <p>Louisville Metrosafe reported several trees downed along the 4500th block of 2nd Street.</p>  |                    |                      |                        |                                       |
| <hr/>  |                    |                      |                        |                                       |
| <b>OLDHAM COUNTY --- PEWEE VLY [38.32, -85.48]</b>   | 01/30/13 04:40 EST |                      | 0                      | Thunderstorm Wind (EG 52 kt)          |
|  | 01/30/13 04:40 EST |                      | 0                      | Source: Law Enforcement               |
| <p>A tree fell across and downed a power line in Pewee Valley.</p>   |                    |                      |                        |                                       |
| <hr/>  |                    |                      |                        |                                       |
| <b>ADAIR COUNTY --- 0.6 W COLUMBIA [37.10, -85.31]</b>   | 01/30/13 04:43 CST |                      | 0                      | Thunderstorm Wind (EG 52 kt)          |
|  | 01/30/13 04:43 CST |                      | 0                      | Source: Emergency Manager             |
| <p>Numerous trees were downed across Adair County.</p>   |                    |                      |                        |                                       |
| <hr/>  |                    |                      |                        |                                       |
| <b>ADAIR COUNTY --- 1.5 NNW SANO [37.12, -85.11]</b>   | 01/30/13 04:49 CST |                      | 15K                    | Thunderstorm Wind (EG 60 kt)          |
|  | 01/30/13 04:49 CST |                      | 0                      | Source: Emergency Manager             |
| <p>A barn was flattened. Nearby, a home sustained gutter damage.</p>   |                    |                      |                        |                                       |
| <hr/>  |                    |                      |                        |                                       |
| <b>RUSSELL COUNTY --- MIDDLETOWN [37.02, -85.07]</b>   | 01/30/13 04:57 CST |                      | 0                      | Thunderstorm Wind (EG 52 kt)          |
|  | 01/30/13 04:57 CST |                      | 0                      | Source: Emergency Manager             |
| <p>Quite a few trees were downed county wide, including some in Jamestown.</p>   |                    |                      |                        |                                       |
| <hr/>  |                    |                      |                        |                                       |
| <b>TAYLOR COUNTY --- 1.4 N CAMPBELLSVILLE [37.35, -85.35]</b>  | 01/30/13 05:36 EST |                      | 0                      | Thunderstorm Wind (EG 52 kt)          |
|  | 01/30/13 05:36 EST |                      | 0                      | Source: Law Enforcement               |
| <p>Taylor County law enforcement reported several trees downed across the county.</p>  |                    |                      |                        |                                       |

## Storm Data and Unusual Weather Phenomena - January 2013

| Location  | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details               |
|---|--------------------|-------------------|---------------------|--------------------------------------|
| <b>MARION COUNTY --- 0.7 S PHILLIPSBURG [37.44, -85.27], 0.7 SSE PHILLIPSBURG [37.44, -85.27]</b>   |                    |                   |                     |                                      |
|   | 01/30/13 05:44 EST |                   | 25K                 | Tornado (EF0, L: 0.12 mi , W: 50 yd) |
|   | 01/30/13 05:45 EST | 2                 | 0                   | Source: NWS Storm Survey             |
| A weak EF-0 tornado with estimated winds of 80 to 85 mph briefly touched down along Calvary Road around 7 miles southwest of Bradfordsville. Although this twister had a path length estimated of only a tenth of a mile, it did destroy a mobile home, injuring two occupants. It also slid a shed off of its foundation.  |                    |                   |                     |                                      |
| <b>MERCER COUNTY --- 1.3 ENE HARRODSBURG ARPT [37.81, -84.83]</b>   |                    |                   |                     |                                      |
|   | 01/30/13 06:00 EST |                   | 2K                  | Thunderstorm Wind (EG 56 kt)         |
|   | 01/30/13 06:00 EST |                   | 0                   | Source: Public                       |
| A mobile home was substantially damaged when a portion of its roof was removed.   |                    |                   |                     |                                      |
| <b>JESSAMINE COUNTY --- 0.9 SW NICHOLASVILLE [37.86, -84.58]</b>  |                    |                   |                     |                                      |
|   | 01/30/13 06:19 EST |                   | 0                   | Thunderstorm Wind (EG 56 kt)         |
|   | 01/30/13 06:19 EST |                   | 0                   | Source: Emergency Manager            |
| The county emergency manager reported that a television tower at a the County Utility Building was blown down.  |                    |                   |                     |                                      |
| <b>JESSAMINE COUNTY --- 1.6 NE UNION MILLS [37.89, -84.50]</b>  |                    |                   |                     |                                      |
|   | 01/30/13 06:21 EST |                   | 25K                 | Thunderstorm Wind (EG 61 kt)         |
|   | 01/30/13 06:21 EST |                   | 0                   | Source: Emergency Manager            |
| A National Weather Service storm survey found sporadic damage from straight line winds along Union Mills Road between Mackey Pike and State Highway 1981. Two large barns were destroyed. Several trees were downed. Tin from a barn roof was thrown into a roadway. Based on damage, wind speeds were estimated at 65 to 70 mph.   |                    |                   |                     |                                      |
| <b>FAYETTE COUNTY --- 0.5 E MONTROSE [38.07, -84.39]</b>  |                    |                   |                     |                                      |
|   | 01/30/13 06:26 EST |                   | 0                   | Thunderstorm Wind (EG 52 kt)         |
|   | 01/30/13 06:26 EST |                   | 0                   | Source: Law Enforcement              |
| Lexington law enforcement reported a utility pole down on Briar Hill Road.  |                    |                   |                     |                                      |
| <b>MADISON COUNTY --- 2.3 ENE RUTHTON [37.74, -84.39]</b>   |                    |                   |                     |                                      |
|   | 01/30/13 06:33 EST |                   | 2K                  | Thunderstorm Wind (EG 52 kt)         |
|   | 01/30/13 06:33 EST |                   | 0                   | Source: Emergency Manager            |
| A barn roof was heavily damaged. Several trees were downed nearby.  |                    |                   |                     |                                      |
| <b>CLARK COUNTY --- 1.5 NNW WINCHESTER [38.00, -84.19]</b>  |                    |                   |                     |                                      |
|   | 01/30/13 06:40 EST |                   | 0                   | Thunderstorm Wind (EG 52 kt)         |
|   | 01/30/13 06:40 EST |                   | 0                   | Source: Emergency Manager            |
| The Clark County emergency manager reported a few trees downed in Winchester.   |                    |                   |                     |                                      |
| <p><b>During the evening hours on the 29th of January, low pressure across the southern plains began to intensify and move towards the western Great Lakes. A squall line developed during the evening hours and strengthened after midnight as it moved into western Kentucky and southern Illinois. This line, fueled by unseasonably mild temperatures near 70 degrees, dewpoints around 60, and an intense low level jet of 80kt at 850mb, spawned one of the largest January tornadic outbreaks on record across the Lower Ohio Valley. This line entered west central Kentucky around 2 am January 30th, exiting the Bluegrass and Lake Cumberland Regions during the pre-dawn hours. Several circulations along the squall line produced tornadoes. In addition, strong synoptic southerly winds right ahead and along this line produced localized wind damage.</b></p> |                    |                   |                     |                                      |