

## Storm Data and Unusual Weather Phenomena - September 2010

| Location   | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details       |
|--|--------------------|-------------------|---------------------|------------------------------|
| <b>KENTUCKY, Northern</b>  |                    |                   |                     |                              |
| <b>CAMPBELL COUNTY --- ALEXANDRIA [38.97, -84.38]</b>  |                    |                   |                     |                              |
|  | 09/07/10 19:26 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt) |
|  | 09/07/10 19:31 EST |                   | 0                   | Source: Law Enforcement      |
| Trees were reported down due to damaging thunderstorm winds.   |                    |                   |                     |                              |
| A cold front pushed into a thin area of instability that had developed due to the strong surface heating during the day. Convection never organized into complete lines, but some individual cells became strong to severe. Moisture had advected northward into the area in advance of the front. Motion of the storms was fairly quick and towards the east. |                    |                   |                     |                              |
| <b>OHIO, Southwest</b>   |                    |                   |                     |                              |
| <b>CHAMPAIGN COUNTY --- 3.0 ESE CHRISTIANSBURG [40.03, -83.98]</b>   |                    |                   |                     |                              |
|  | 09/07/10 15:21 EST |                   | 5K                  | Thunderstorm Wind (EG 50 kt) |
|  | 09/07/10 15:25 EST |                   | 0                   | Source: Law Enforcement      |
| Multiple trees and power poles were reported down on Cow Path Road.  |                    |                   |                     |                              |
| <b>CLARK COUNTY --- 5.0 W SPRINGFIELD [39.92, -83.89]</b>  |                    |                   |                     |                              |
|  | 09/07/10 16:30 EST |                   | 15K                 | Thunderstorm Wind (EG 50 kt) |
|  | 09/07/10 16:35 EST |                   | 0                   | Source: Law Enforcement      |
| A barn was blown over on Victory Road. Several trees and power lines were down on Sintz Road. In another location, a roof was peeled back due to damaging thunderstorm winds.  |                    |                   |                     |                              |
| <b>CLINTON COUNTY --- 3.0 NW WILMINGTON [39.48, -83.87], 2.3 ESE WILMINGTON CLINTON F [39.48, -83.83]</b>  |                    |                   |                     |                              |
|  | 09/07/10 17:15 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt) |
|  | 09/07/10 17:18 EST |                   | 0                   | Source: Law Enforcement      |
| Trees were reported down due to damaging thunderstorm winds.   |                    |                   |                     |                              |
| <b>CLINTON COUNTY --- 4.0 WNW SABINA [39.50, -83.72], SABINA [39.48, -83.65]</b>   |                    |                   |                     |                              |
|  | 09/07/10 17:28 EST |                   | 70K                 | Thunderstorm Wind (EG 70 kt) |
|  | 09/07/10 17:32 EST |                   | 0                   | Source: County Official      |
| A new barn was destroyed on Spencer Road due to damaging thunderstorm winds. In addition to the new barn damage, four roofs were blown off barns, 15 large trees were down, siding was damaged on a home, and a grain bin buckled.   |                    |                   |                     |                              |
| <b>FRANKLIN COUNTY --- GROVE CITY [39.88, -83.08]</b>  |                    |                   |                     |                              |
|  | 09/07/10 17:35 EST |                   | 1K                  | Thunderstorm Wind (MG 59 kt) |
|  | 09/07/10 17:36 EST |                   | 0                   | Source: Amateur Radio        |
| Two large tree limbs were reported down due to damaging thunderstorm winds.  |                    |                   |                     |                              |
| <b>FRANKLIN COUNTY --- OBETZ [39.87, -82.95]</b>   |                    |                   |                     |                              |
|  | 09/07/10 17:35 EST |                   | 0                   | Thunderstorm Wind (EG 52 kt) |
|  | 09/07/10 17:36 EST |                   | 0                   | Source: Trained Spotter      |
| A trained spotter reported the wind gust.  |                    |                   |                     |                              |
| <b>FAYETTE COUNTY --- OCTA [39.60, -83.62], MILLEDGEVILLE [39.58, -83.58]</b>  |                    |                   |                     |                              |
|  | 09/07/10 17:40 EST |                   | 20K                 | Thunderstorm Wind (EG 70 kt) |
|  | 09/07/10 17:45 EST |                   | 0                   | Source: Law Enforcement      |
| Trees were reported down around the area and a barn was destroyed due to damaging thunderstorm winds.  |                    |                   |                     |                              |
| <b>LICKING COUNTY --- NEWARK [40.07, -82.40]</b>   |                    |                   |                     |                              |

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|---|--------------------|-------------------|---------------------|------------------------------|
|   | 09/07/10 17:57 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt) |
|   | 09/07/10 18:01 EST |                   | 0                   | Source: County Official      |
| Trees were reported down due to damaging thunderstorm winds.  |                    |                   |                     |                              |
| <hr/>   |                    |                   |                     |                              |
| <b>CLERMONT COUNTY --- NEW RICHMOND [38.95, -84.28]</b>   |                    |                   |                     |                              |
|   | 09/07/10 19:33 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt) |
|   | 09/07/10 19:37 EST |                   | 0                   | Source: Law Enforcement      |
| Trees were reported down due to damaging thunderstorm winds.  |                    |                   |                     |                              |
| <hr/>   |                    |                   |                     |                              |
| <b>CLERMONT COUNTY --- 1.0 W AMELIA [39.03, -84.24], 3.0 ESE AMELIA [39.01, -84.17]</b>   |                    |                   |                     |                              |
|   | 09/07/10 19:40 EST |                   | 0                   | Hail (1.00 in)               |
|   | 09/07/10 19:45 EST |                   | 0                   | Source: Trained Spotter      |
| <hr/>   |                    |                   |                     |                              |
| <b>CLERMONT COUNTY --- 3.0 ESE AMELIA [39.01, -84.17]</b>   |                    |                   |                     |                              |
|   | 09/07/10 19:45 EST |                   | 6K                  | Thunderstorm Wind (EG 55 kt) |
|   | 09/07/10 19:49 EST |                   | 0                   | Source: Public               |
| Shingles, trim, and gutters were blown off of a house due to damaging thunderstorm winds.   |                    |                   |                     |                              |
| <hr/>   |                    |                   |                     |                              |
| <b>BROWN COUNTY --- 1.0 N MT ORAB [39.06, -83.92]</b>   |                    |                   |                     |                              |
|   | 09/07/10 19:56 EST |                   | 20K                 | Hail (1.00 in)               |
|   | 09/07/10 20:06 EST |                   | 15K                 | Source: Public               |
| Windows were broken, roof shingles were torn, siding was damaged, and crops were destroyed due to large hail that moved through the area.   |                    |                   |                     |                              |
| <hr/>   |                    |                   |                     |                              |
| <b>BROWN COUNTY --- MT ORAB [39.05, -83.92]</b>   |                    |                   |                     |                              |
|   | 09/07/10 19:57 EST |                   | 2K                  | Thunderstorm Wind (EG 70 kt) |
|   | 09/07/10 20:01 EST |                   | 0                   | Source: Law Enforcement      |
| Numerous trees were reported down due to damaging thunderstorm winds.   |                    |                   |                     |                              |
| <hr/>   |                    |                   |                     |                              |
| <b>CLERMONT COUNTY --- 1.0 NE WILLIAMSBURG [39.06, -84.04]</b>  |                    |                   |                     |                              |
|   | 09/07/10 20:02 EST |                   | 0                   | Hail (0.88 in)               |
|   | 09/07/10 20:06 EST |                   | 0                   | Source: Public               |
| <hr/>   |                    |                   |                     |                              |
| <b>HIGHLAND COUNTY --- 0.0 ESE BURFORD [39.08, -83.85]</b>  |                    |                   |                     |                              |
|   | 09/07/10 20:10 EST |                   | 2K                  | Thunderstorm Wind (EG 50 kt) |
|   | 09/07/10 20:14 EST |                   | 0                   | Source: Law Enforcement      |
| Several trees were reported down due to damaging thunderstorm winds.  |                    |                   |                     |                              |
| <hr/>   |                    |                   |                     |                              |
| <b>HIGHLAND COUNTY --- MOWRYSTOWN [39.03, -83.75]</b>   |                    |                   |                     |                              |
|   | 09/07/10 20:16 EST |                   | 2K                  | Thunderstorm Wind (EG 50 kt) |
|   | 09/07/10 20:20 EST |                   | 0                   | Source: Law Enforcement      |
| Several trees were reported down due to damaging thunderstorm winds.  |                    |                   |                     |                              |
| <hr/>   |                    |                   |                     |                              |
| <b>ROSS COUNTY --- 4.0 SE FRANKFORT [39.36, -83.13]</b>   |                    |                   |                     |                              |
|   | 09/07/10 21:05 EST |                   | 0                   | Hail (0.88 in)               |
|   | 09/07/10 21:10 EST |                   | 0                   | Source: Public               |
| <p>A cold front pushed into a thin area of instability that had developed due to the strong surface heating during the day. Convection never organized into complete lines, but some individual cells became strong to severe. Moisture had advected northward into the area in advance of the front. Motion of the storms was fairly quick and towards the east.</p> |                    |                   |                     |                              |
| <hr/>   |                    |                   |                     |                              |
| <b>AUGLAIZE COUNTY --- WAYNESFIELD [40.60, -83.98]</b>  |                    |                   |                     |                              |
|   | 09/16/10 13:42 EST |                   | 0                   | Hail (0.88 in)               |
|   | 09/16/10 13:46 EST |                   | 0                   | Source: Public               |

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|--|--------------------|-------------------|---------------------|---------------------------------------|
| <b>AUGLAIZE COUNTY --- WAYNESFIELD [40.60, -83.98]</b>   |                    |                   |                     |                                       |
|  | 09/16/10 13:42 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt)          |
|  | 09/16/10 13:46 EST |                   | 0                   | Source: Public                        |
| Large branches were reported down due to damaging thunderstorm winds.  |                    |                   |                     |                                       |
| <b>LOGAN COUNTY --- 2.0 SW BELLEFONTAINE [40.35, -83.80]</b>   |                    |                   |                     |                                       |
|  | 09/16/10 14:20 EST |                   | 60K                 | Thunderstorm Wind (EG 70 kt)          |
|  | 09/16/10 14:25 EST |                   | 0                   | Source: Emergency Manager             |
| Numerous trees were reported down due to damaging thunderstorm winds. Several barns were also damaged or destroyed along with some minor damage to a few homes.  |                    |                   |                     |                                       |
| <b>LOGAN COUNTY --- BELLEFONTAINE [40.37, -83.77]</b>  |                    |                   |                     |                                       |
|  | 09/16/10 14:24 EST |                   | 0                   | Hail (1.00 in)                        |
|  | 09/16/10 14:28 EST |                   | 0                   | Source: Trained Spotter               |
| <b>CLARK COUNTY --- 5.0 N SPRINGFIELD [39.99, -83.80]</b>  |                    |                   |                     |                                       |
|  | 09/16/10 15:01 EST |                   | 0                   | Hail (1.00 in)                        |
|  | 09/16/10 15:05 EST |                   | 0                   | Source: Law Enforcement               |
| <b>DELAWARE COUNTY --- 3.0 NNW POWELL [40.21, -83.10], 5.0 ENE POWELL [40.20, -82.99]</b>  |                    |                   |                     |                                       |
|  | 09/16/10 15:15 EST |                   | 40K                 | Thunderstorm Wind (EG 61 kt)          |
|  | 09/16/10 15:25 EST | 1                 | 0                   | Source: Emergency Manager             |
| Trees were reported down around the area due to damaging thunderstorm winds. A portion of the roof was peeled off of the Olentangy High School gym. One woman was injured when a tree fell onto her home causing severe damage to the roof. The woman was taken to a nearby hospital for possible concussion.  |                    |                   |                     |                                       |
| <b>DELAWARE COUNTY --- 2.9 SSW GALENA [40.18, -82.89], 2.9 S GALENA [40.18, -82.89]</b>  |                    |                   |                     |                                       |
|  | 09/16/10 15:38 EST |                   | 3K                  | Tornado (EF0, L: 0.12 mi , W: 100 yd) |
|  | 09/16/10 15:39 EST |                   | 0                   | Source: NWS Storm Survey              |
| The tornado touched down and moved briefly along Big Walnut Road near the Hoover Reservoir. Trees were damaged along the path due to the tornado. In addition, a few shingles were torn off of a house. Based on the damage, wind speeds were estimated around 75 miles per hour.  |                    |                   |                     |                                       |
| <b>FRANKLIN COUNTY --- 5.0 N GROVE CITY [39.95, -83.08]</b>  |                    |                   |                     |                                       |
|  | 09/16/10 15:40 EST |                   | 0                   | Hail (1.75 in)                        |
|  | 09/16/10 15:45 EST |                   | 0                   | Source: Public                        |
| <b>FRANKLIN COUNTY --- 1.1 W GROVE CITY [39.88, -83.10]</b>  |                    |                   |                     |                                       |
|  | 09/16/10 15:56 EST |                   | 0                   | Hail (1.00 in)                        |
|  | 09/16/10 15:59 EST |                   | 0                   | Source: Trained Spotter               |
| <b>LICKING COUNTY --- NEWARK [40.07, -82.40]</b>   |                    |                   |                     |                                       |
|  | 09/16/10 16:20 EST |                   | 0                   | Hail (1.75 in)                        |
|  | 09/16/10 16:35 EST |                   | 0                   | Source: Trained Spotter               |
| <b>FAIRFIELD COUNTY --- 1.3 WSW WEST RUSHVILLE [39.76, -82.47], 1.5 ESE RUSHVILLE [39.76, -82.40]</b>  |                    |                   |                     |                                       |
|  | 09/16/10 16:52 EST |                   | 10K                 | Tornado (EF0, L: 3.67 mi , W: 150 yd) |
|  | 09/16/10 16:56 EST |                   | 0                   | Source: NWS Storm Survey              |
| The tornado touched down on Fairfield Union Road where tree and roof damage occurred. Damage associated with the tornado continued to the east until near County Line Road where another house had siding and roof damage from the tornado. Along this path there was additional tree damage and damage to a barn. Based on the damage, wind speeds were estimated around 75 miles per hour. |                    |                   |                     |                                       |
| <b>FAIRFIELD COUNTY --- 2.5 S STOUTSVILLE [39.56, -82.83], 3.2 SSW OAKLAND [39.56, -82.80]</b>   |                    |                   |                     |                                       |
|  | 09/16/10 16:56 EST |                   | 60K                 | Tornado (EF1, L: 1.76 mi , W: 200 yd) |
|  | 09/16/10 16:59 EST |                   | 2K                  | Source: NWS Storm Survey              |

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| Location  | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|---|-----------|-------------------|---------------------|------------------------|
| <p>The tornado touched down in southwest Fairfield County near Dozer and Valentine Roads at 1656 EST. The tornado crossed into Pickaway County a half mile east of Valentine Road on Tarlton Road at 1659 EST. The tornado continued in Pickaway County until 1701 EST. The tornado lifted while near Tarlton. The tornado was on the ground for 1.76 miles in Fairfield County and on the ground for 1.09 miles in Pickaway County. The total path length of this tornado was 2.85 miles. The average path width was 200 yards. While in Fairfield County, two empty grain silo were picked up and tossed about 100 yards near Dozer and Valentine Roads. Some of the mechanical parts within the silo were ripped up from the foundation and tossed 15 yards from the silos. Further to the east, on the Fairfield County side of Tarlton Road, more significant damage occurred. Numerous trees were snapped and a few trees were uprooted in this area. A tree branch impaled the side of a home and was driven through the siding. Roof and siding damage also occurred at this location. At a neighboring property, up to twenty percent of the roof was lifted and windows had been blown out. There was also damage to the siding at this location as well. Further east along the south side of Tarlton Road in Pickaway County, additional structural and tree damage occurred. A parked tractor trailer was pushed over due to the tornado. A neighboring home suffered significant roof damage in which the roof became detached from the structure. An awning had been torn off the detached garage at this location and the entire garage structure was leaning slightly. Additionally, tree damage occurred further east along Tarlton Road. Property damage estimates in Fairfield County are around sixty-thousand dollars with crop damage estimated around two-thousand dollars. Property damage estimates in Pickaway County are around thirty-thousand dollars with crop damage estimated around two-thousand dollars.</p> |           |                   |                     |                        |

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### PICKAWAY COUNTY --- 1.1 NW TARLTON [39.56, -82.80], 0.4 NNE TARLTON [39.56, -82.78]

|                    |     |                                       |
|--------------------|-----|---------------------------------------|
| 09/16/10 16:59 EST | 30K | Tornado (EF1, L: 1.09 mi , W: 200 yd) |
| 09/16/10 17:01 EST | 2K  | Source: NWS Storm Survey              |

The tornado touched down in southwest Fairfield County near Dozer and Valentine Roads at 1656 EST. The tornado crossed into Pickaway County a half mile east of Valentine Road on Tarlton Road at 1659 EST. The tornado continued in Pickaway County until 1701 EST. The tornado lifted while near Tarlton. The tornado was on the ground for 1.76 miles in Fairfield County and on the ground for 1.09 miles in Pickaway County. The total path length of this tornado was 2.85 miles. The average path width was 200 yards. While in Fairfield County, two empty grain silo were picked up and tossed about 100 yards near Dozer and Valentine Roads. Some of the mechanical parts within the silo were ripped up from the foundation and tossed 15 yards from the silos. Further to the east, on the Fairfield County side of Tarlton Road, more significant damage occurred. Numerous trees were snapped and a few trees were uprooted in this area. A tree branch impaled the side of a home and was driven through the siding. Roof and siding damage also occurred at this location. At a neighboring property, up to twenty percent of the roof was lifted and windows had been blown out. There was also damage to the siding at this location as well. Further east along the south side of Tarlton Road in Pickaway County, additional structural and tree damage occurred. A parked tractor trailer was pushed over due to the tornado. A neighboring home suffered significant roof damage in which the roof became detached from the structure. An awning had been torn off the detached garage at this location and the entire garage structure was leaning slightly. Additionally, tree damage occurred further east along Tarlton Road. Property damage estimates in Fairfield County are around sixty-thousand dollars with crop damage estimated around two-thousand dollars. Property damage estimates in Pickaway County are around thirty-thousand dollars with crop damage estimated around two-thousand dollars.

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### HOCKING COUNTY --- 1.4 WSW BUENA VISTA [39.54, -82.69], 0.8 SSW BUENA VISTA [39.54, -82.68]

|                    |     |                                       |
|--------------------|-----|---------------------------------------|
| 09/16/10 17:09 EST | 16K | Tornado (EF1, L: 0.97 mi , W: 150 yd) |
| 09/16/10 17:10 EST | 0   | Source: NWS Storm Survey              |

The roof of a pole barn was lifted and carried away due to a tornado. Some roof remnants were found over a quarter of a mile away from the original structure. Two walls of the barn had also collapsed and a nearby dumpster was overturned. Additionally, significant tree damage occurred to large hardwood trees in the area. Minor roof damage occurred to a nearby home. Damage with this tornado was consistent with wind speeds around 90 miles per hour.

**A strong shortwave trough arrived during peak heating out ahead of a the cold front in a location that had received a couple hours of sunshine. A scattered to broken line of storms developed in an area of strong deep shear, which allowed for a high degree of organization with the storms.**

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### UNION COUNTY --- PLAIN CITY [40.12, -83.28]

|                    |    |                              |
|--------------------|----|------------------------------|
| 09/22/10 15:29 EST | 1K | Thunderstorm Wind (EG 50 kt) |
| 09/22/10 15:33 EST | 0  | Source: Public               |

Large branches were broken due to damaging thunderstorm winds.

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### FRANKLIN COUNTY --- HILLIARD [40.03, -83.15], 4.0 SSE DUBLIN [40.05, -83.09]

|                    |    |                              |
|--------------------|----|------------------------------|
| 09/22/10 15:34 EST | 1K | Thunderstorm Wind (EG 50 kt) |
| 09/22/10 15:42 EST | 0  | Source: Law Enforcement      |

Large tree branches and a tree were reported down due to damaging thunderstorm winds.

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### FRANKLIN COUNTY --- COLUMBUS [40.03, -83.00]

|                    |    |                              |
|--------------------|----|------------------------------|
| 09/22/10 15:45 EST | 1K | Thunderstorm Wind (EG 50 kt) |
| 09/22/10 15:50 EST | 0  | Source: Public               |

Large branches were reported down due to damaging thunderstorm winds.

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### FRANKLIN COUNTY --- (OSU)OH ST UNIV ARPT [40.08, -83.07]

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|----------|--------------------|-------------------|---------------------|------------------------------|
|          | 09/22/10 15:46 EST |                   | 0                   | Thunderstorm Wind (MG 50 kt) |
|          | 09/22/10 15:47 EST |                   | 0                   | Source: ASOS                 |

**FRANKLIN COUNTY --- 5.0 WSW WESTERVILLE [40.09, -83.01]**

|                    |    |                              |
|--------------------|----|------------------------------|
| 09/22/10 15:49 EST | 1K | Thunderstorm Wind (EG 50 kt) |
| 09/22/10 15:52 EST | 0  | Source: Public               |

Trees were reported down due to damaging thunderstorm winds.

**FAYETTE COUNTY --- 1.0 S WASHINGTON COURT HOU [39.52, -83.43]**

|                    |    |                              |
|--------------------|----|------------------------------|
| 09/22/10 15:50 EST | 2K | Thunderstorm Wind (EG 50 kt) |
| 09/22/10 15:55 EST | 0  | Source: Law Enforcement      |

Power poles were blown over due to damaging thunderstorm winds.

**FRANKLIN COUNTY --- 1.1 W TAYLOR [39.98, -82.85], 1.0 W TAYLOR [39.98, -82.85]**

|                    |   |                                      |
|--------------------|---|--------------------------------------|
| 09/22/10 15:58 EST | 0 | Tornado (EF0, L: 0.06 mi , W: 50 yd) |
| 09/22/10 15:59 EST | 0 | Source: Department of Highways       |

A Columbus metro traffic camera at the intersection of Interstate 270 and Broad Street recorded a very brief tornado touchdown just north of this location. No reports of damage were received in the immediate area, but the video footage does show a brief tornadic circulation in contact with the ground. Winds with this tornado are estimated to be around 65 miles per hour.

**LICKING COUNTY --- 4.0 N GRANVILLE [40.13, -82.52]**

|                    |   |                              |
|--------------------|---|------------------------------|
| 09/22/10 16:30 EST | 0 | Thunderstorm Wind (MG 52 kt) |
| 09/22/10 16:31 EST | 0 | Source: Amateur Radio        |

**A weak frontal boundary pushed south into the region with modest instability and shear. The storms were generally poorly organized but managed to produce some pockets of strong to severe wind. One brief tornado touchdown also occurred with the storms.**