

Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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ILLINOIS, Northwest

HANCOCK COUNTY --- 0.9 SE BENTLEY [40.34, -91.11]

07/01/12 02:34 CST	0	Hail (1.00 in)
07/01/12 02:34 CST	0	Source: COOP Observer

A COOP observer measured hail the size of dimes to quarters near Bentley.

A 30 knot low level jet impinging on a slow moving warm front triggered scattered thunderstorms during the early morning hours of July 1, 2012. The storms were confined to extreme northeast Missouri, southeast Iowa and western Illinois. A few of the storms produced 60 mph winds which knocked down trees and limbs. Law enforcement reported a tree fell on a house along with power lines down near Leando, Iowa in Van Buren county. There were also a couple of quarter size hail reports from trained spotters. Some of the storms dumped heavy rainfall of over 3 inches in Van Buren county in southeast Iowa.

(IL-Z001) JO DAVIESS, (IL-Z002) STEPHENSON, (IL-Z007) CARROLL, (IL-Z009) WHITESIDE, (IL-Z015) ROCK ISLAND, (IL-Z016) HENRY, (IL-Z017) BUREAU, (IL-Z018) PUTNAM, (IL-Z024) MERCER, (IL-Z025) HENDERSON, (IL-Z026) WARREN, (IL-Z034) HANCOCK, (IL-Z035) MCDONOUGH

07/04/12 12:00 CST	0	Excessive Heat
07/07/12 22:00 CST	0	

A very hot and humid airmass surged into the Midwest during the long 4th of July holiday. The dangerous heat began about noon on July 4 with relief from the heat and humidity finally arriving during the evening of July 7. During this period, afternoon and early evening temperatures soared into the upper 90s to lower 100s with nighttime temperatures remaining well into the 70s. Combining the heat and humidity created heat index values of 105 to 115 during the afternoon and evening. The hottest day was Saturday July 7 when many locations reported afternoon maximum temperatures of 100 to 105. In fact, a record high temperature of 100 degrees was tied at Cedar Rapids, Iowa on Saturday July 7. The previous record was 100 set in 1936. Genesis hospitals in the Quad Cities area treated 14 people for heat related illnesses on the 4th of July. However, most people took precautions against the heat as excessive heat warnings had been issued to alert people of the stretch of dangerous heat and humidity.

WHITESIDE COUNTY --- 0.5 E STERLING [41.80, -89.69]

07/07/12 16:40 CST	0	Thunderstorm Wind (EG 52 kt)
07/07/12 16:40 CST	0	Source: Public

The public reported several large diameter tree limbs down on the northwest side of Sterling. There were also reports of power outages.

A cold front moving into eastern Iowa and northwest Illinois managed to develop isolated severe thunderstorms during the late afternoon and early evening of July 7, 2012. The airmass ahead of the front was very unstable but the shear was weak. The thunderstorms produced 60 mph winds at Bleidorn, Iowa in Clinton county. Another isolated severe thunderstorm near Sterling, Illinois in Whiteside county produced 60 mph winds. The public reported several large diameter tree limbs down along with power outages.

(IL-Z001) JO DAVIESS, (IL-Z002) STEPHENSON

07/10/12 00:00 CST	0	Drought
07/31/12 00:00 CST	0	

A persistent ridge of high pressure across the region produced warmer than normal temperatures and below normal rainfall during the month of July. Mean temperatures for the month were 4 to 7 degrees above normal. Rainfall for the month totaled only around an inch or less which was about 3 to 5 inches below normal. This caused the drought that began in June to worsen and expand across eastern Iowa, northwest and western Illinois and extreme northeast Missouri. According to the U.S. Drought Monitor, extreme northeast Missouri was in a D2 severe drought on July 3, 2012. By the 10th of July, the severe drought category also included much of eastern Iowa roughly north of Interstate 80, and northwest Illinois north of Highway 30. On July 17, the Drought Monitor classified all of eastern Iowa, northwest and western Illinois and extreme northeast Missouri as severe drought. However, due to the persistent heat and lack of rainfall the drought continued to worsen. By the last week of July, the entire region was either in a D2 severe or D3 extreme drought. Crops were showing stress due to the heat and reduced crop yields were being noted. Because the severe to extreme drought continued into August exact damage amounts to the crops are not known at this time.

(IL-Z007) CARROLL, (IL-Z009) WHITESIDE, (IL-Z015) ROCK ISLAND, (IL-Z016) HENRY, (IL-Z017) BUREAU, (IL-Z018) PUTNAM, (IL-Z024) MERCER, (IL-Z025) HENDERSON, (IL-Z026) WARREN, (IL-Z034) HANCOCK, (IL-Z035) MCDONOUGH

07/17/12 00:00 CST	0	Drought
07/31/12 00:00 CST	0	

A persistent ridge of high pressure across the region produced warmer than normal temperatures and below normal rainfall during the month of July. Mean temperatures for the month were 4 to 7 degrees above normal. Rainfall for the month totaled only around an inch or less which was about 3 to 5 inches below normal. This caused the drought that began in June to worsen and expand across eastern Iowa, northwest and western Illinois and extreme northeast Missouri. According to the U.S. Drought Monitor, extreme northeast

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<p>Missouri was in a D2 severe drought on July 3, 2012. By the 10th of July, the severe drought category also included much of eastern Iowa roughly north of Interstate 80, and northwest Illinois north of Highway 30. On July 17, the Drought Monitor classified all of eastern Iowa, northwest and western Illinois and extreme northeast Missouri as severe drought. However, due to the persistent heat and lack of rainfall the drought continued to worsen. By the last week of July, the entire region was either in a D2 severe or D3 extreme drought. Crops were showing stress due to the heat and reduced crop yields were being noted. Because the severe to extreme drought continued into August exact damage amounts to the crops are not known at this time.</p>				
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STEPHENSON COUNTY --- 2.0 W LAKE SUMMERSET [42.45, -89.44]				
	07/18/12 18:47 CST		0	Thunderstorm Wind (EG 52 kt)
	07/18/12 18:47 CST		0	Source: Emergency Manager
<p>The emergency manager reported 3 inch diameter tree limbs down and cornfields flattened near Lake Summerset.</p>				
<p>A nearly stalled east-west frontal boundary north of Interstate 80 was the focus for scattered thunderstorms during the afternoon and evening on July 18, 2012. One of the storms became severe in northwest Illinois producing 60 mph winds. The emergency manager in Stephenson county reported 3 inch diameter tree limbs down and cornfields flattened near Lake Summerset.</p>				
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JO DAVIESS COUNTY --- 0.5 W STOCKTON [42.35, -90.01]				
	07/24/12 03:17 CST		0	Thunderstorm Wind (MG 50 kt)
	07/24/12 03:17 CST		0	Source: COOP Observer
<p>A COOP observer measured a 58 mph wind gust. He also reported an 8 inch diameter main tree branch broken off near Stockton and several small 1 inch diameter branches down.</p>				
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STEPHENSON COUNTY --- 1.2 NW WADDAMS GROVE [42.43, -89.90]				
	07/24/12 03:40 CST		0	Thunderstorm Wind (EG 52 kt)
	07/24/12 03:40 CST		0	Source: Emergency Manager
<p>The emergency manager reported several 4 inch diameter branches down across the road at Crossroads of Stagecoach Road near Waddams Grove.</p>				
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STEPHENSON COUNTY --- 0.9 NW FREEPORT [42.29, -89.63]				
	07/24/12 03:45 CST		0	Thunderstorm Wind (EG 52 kt)
	07/24/12 03:45 CST		0	Source: Trained Spotter
<p>A trained spotter reported a significant number of branches down near Freeport. However, the size was unknown.</p>				
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STEPHENSON COUNTY --- FREEPORT ALBERTUS AR [42.25, -89.58]				
	07/24/12 03:55 CST		0	Thunderstorm Wind (MG 50 kt)
	07/24/12 03:55 CST		0	Source: AWOS
<p>The AWOS at the Freeport Airport measured a wind gust of 58 mph.</p>				
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STEPHENSON COUNTY --- 0.9 NW FREEPORT [42.29, -89.63]				
	07/24/12 03:56 CST		0	Thunderstorm Wind (MG 52 kt)
	07/24/12 03:56 CST		0	Source: Trained Spotter
<p>A trained spotter measured 60 mph winds in Freeport.</p>				
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JO DAVIESS COUNTY --- 1.2 SW WARREN [42.49, -90.00]				
	07/24/12 04:00 CST		0	Thunderstorm Wind (EG 52 kt)
	07/24/12 04:00 CST		0	Source: Trained Spotter
<p>A trained spotter reported several 12 inch tree limbs down along with power poles down near Warren.</p>				
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STEPHENSON COUNTY --- 1.5 NNW FREEPORT [42.30, -89.63]				
	07/24/12 04:01 CST		0	Thunderstorm Wind (EG 52 kt)
	07/24/12 04:01 CST		0	Source: Trained Spotter

A trained spotter reported a large tree blocking the west bound lane of Route 75 near the intersection of Highway 26 near Freeport.

An elongated band of thunderstorms pushed into northwest Illinois during the early morning hours of July 24, 2012. A frontal zone stretched from northern Illinois to northwest Iowa with strong elevated moist transport on 35 knot southwest low level jet. Several thunderstorms in northwest Illinois produced 60 mph winds knocking down tree limbs and branches. A trained spotter reported a large tree blocking the west bound lane of Route 75 near the intersection of Highway 26 near Freeport, Illinois in Stephenson county.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
BUREAU COUNTY --- 0.9 NE PRINCETON [41.38, -89.46]				
	07/26/12 15:41 CST		0	Thunderstorm Wind (EG 52 kt)
	07/26/12 15:41 CST		0	Source: Trained Spotter

A trained spotter reported tree limbs and power lines down in Princeton. Two 5 inch diameter pine trees were also blown over.

HENRY COUNTY --- CAMBRIDGE [41.30, -90.20]				
	07/26/12 15:50 CST		0	Thunderstorm Wind (EG 52 kt)
	07/26/12 15:50 CST		0	Source: Trained Spotter

A trained spotter reported several 3 to 4 inch tree limbs down along with a 6 inch diameter tree in Cambridge.

A weak cold front triggered isolated severe thunderstorms in northwest Illinois during the afternoon on July 26, 2012. Winds were estimated at 60 mph. A trained spotter reported tree limbs and power lines down in Princeton, Illinois in Bureau county. Two 5 inch diameter pine trees were also blown over. Another trained spotter reported several 3 to 4 inch tree limbs down along with a 6 inch diameter tree in Cambridge, Illinois in Henry county.

IOWA, East Central and Southeast

VAN BUREN COUNTY --- 1.1 E LEANDO [40.83, -92.08]				
	07/01/12 06:25 CST		0	Thunderstorm Wind (EG 52 kt)
	07/01/12 06:25 CST		0	Source: Law Enforcement

Law enforcement reported a tree fell on a house along with power lines down near Leando.

VAN BUREN COUNTY --- 3.0 ESE DOUDS [40.83, -92.03]				
	07/01/12 06:25 CST		0	Thunderstorm Wind (EG 52 kt)
	07/01/12 06:25 CST		0	Source: Law Enforcement

Law enforcement reported tree limbs down on Oak Grove Avenue near Douds.

VAN BUREN COUNTY --- 3.8 SSW LEANDO [40.78, -92.13]				
	07/01/12 06:28 CST		0	Hail (1.00 in)
	07/01/12 06:33 CST		0	Source: Trained Spotter

Trained spotter reported hail the size of quarters falling for about 5 minutes near Leando.

DES MOINES COUNTY --- 0.5 W WEST BURLINGTON [40.82, -91.16]				
	07/01/12 07:08 CST		0	Thunderstorm Wind (EG 52 kt)
	07/01/12 07:08 CST		0	Source: Trained Spotter

A trained spotter reported an 8 inch tree limb down on top of a house near the 200th block of Broadway Street and an 11 inch diameter tree snapped off on the corner of Long Meadow and Swan Streets. Both reports were near West Burlington.

A 30 knot low level jet impinging on a slow moving warm front triggered scattered thunderstorms during the early morning hours of July 1, 2012. The storms were confined to extreme northeast Missouri, southeast Iowa and western Illinois. A few of the storms produced 60 mph winds which knocked down trees and limbs. Law enforcement reported a tree fell on a house along with power lines down near Leando, Iowa in Van Buren county. There were also a couple of quarter size hail reports from trained spotters. Some of the storms dumped heavy rainfall of over 3 inches in Van Buren county in southeast Iowa.

(IA-Z040) BUCHANAN, (IA-Z041) DELAWARE, (IA-Z042) DUBUQUE, (IA-Z051) BENTON, (IA-Z052) LINN, (IA-Z053) JONES, (IA-Z054) JACKSON, (IA-Z063) IOWA, (IA-Z064) JOHNSON, (IA-Z065) CEDAR, (IA-Z066) CLINTON, (IA-Z067) MUSCATINE, (IA-Z068) SCOTT, (IA-Z076) KEOKUK, (IA-Z077) WASHINGTON, (IA-Z078) LOUISA, (IA-Z087) JEFFERSON, (IA-Z088) HENRY, (IA-Z089) DES MOINES, (IA-Z098) VAN BUREN, (IA-Z099) LEE				
	07/04/12 12:00 CST		0	Excessive Heat
	07/07/12 22:00 CST	14	0	

A very hot and humid airmass surged into the Midwest during the long 4th of July holiday. The dangerous heat began about noon on July 4 with relief from the heat and humidity finally arriving during the evening of July 7. During this period, afternoon and early evening temperatures soared into the upper 90s to lower 100s with nighttime temperatures remaining well into the 70s. Combining the heat and humidity created heat index values of 105 to 115 during the afternoon and evening. The hottest day was Saturday July 7 when many locations reported afternoon maximum temperatures of 100 to 105. In fact, a record high temperature of 100 degrees was tied at Cedar

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>Rapids, Iowa on Saturday July 7. The previous record was 100 set in 1936. Genesis hospitals in the Quad Cities area treated 14 people for heat related illnesses on the 4th of July. However, most people took precautions against the heat as excessive heat warnings had been issued to alert people of the stretch of dangerous heat and humidity.</p>				
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CLINTON COUNTY --- 2.6 E BLEIDORN [41.90, -90.65]				
	07/07/12 16:28 CST		0	Thunderstorm Wind (EG 52 kt)
	07/07/12 16:28 CST		0	Source: Public

The public estimated wind gusts up to 60 mph near Bleidorn.

A cold front moving into eastern Iowa and northwest Illinois managed to develop isolated severe thunderstorms during the late afternoon and early evening of July 7, 2012. The airmass ahead of the front was very unstable but the shear was weak. The thunderstorms produced 60 mph winds at Bleidorn, Iowa in Clinton county. Another isolated severe thunderstorm near Sterling, Illinois in Whiteside county produced 60 mph winds. The public reported several large diameter tree limbs down along with power outages.

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(IA-Z040) BUCHANAN, (IA-Z041) DELAWARE, (IA-Z042) DUBUQUE, (IA-Z051) BENTON, (IA-Z052) LINN, (IA-Z053) JONES, (IA-Z054) JACKSON, (IA-Z063) IOWA, (IA-Z064) JOHNSON, (IA-Z065) CEDAR				
	07/10/12 00:00 CST		0	Drought
	07/31/12 00:00 CST		0	

A persistent ridge of high pressure across the region produced warmer than normal temperatures and below normal rainfall during the month of July. Mean temperatures for the month were 4 to 7 degrees above normal. Rainfall for the month totaled only around an inch or less which was about 3 to 5 inches below normal. This caused the drought that began in June to worsen and expand across eastern Iowa, northwest and western Illinois and extreme northeast Missouri. According to the U.S. Drought Monitor, extreme northeast Missouri was in a D2 severe drought on July 3, 2012. By the 10th of July, the severe drought category also included much of eastern Iowa roughly north of Interstate 80, and northwest Illinois north of Highway 30. On July 17, the Drought Monitor classified all of eastern Iowa, northwest and western Illinois and extreme northeast Missouri as severe drought. However, due to the persistent heat and lack of rainfall the drought continued to worsen. By the last week of July, the entire region was either in a D2 severe or D3 extreme drought. Crops were showing stress due to the heat and reduced crop yields were being noted. Because the severe to extreme drought continued into August exact damage amounts to the crops are not known at this time.

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VAN BUREN COUNTY --- 0.9 SW FARMINGTON [40.64, -91.74]				
	07/13/12 13:50 CST		0	Thunderstorm Wind (EG 60 kt)
	07/13/12 13:50 CST		0	Source: Trained Spotter

A trained spotter reported one tree down along with a power pole down near Farmington.

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BUCHANAN COUNTY --- 0.9 SW JESUP [42.47, -92.06]				
	07/14/12 07:15 CST		0	Hail (0.75 in)
	07/14/12 07:25 CST		0	Source: Trained Spotter

A trained spotter reported pea to dime size hail falling for 10 minutes near Jesup.

A series of upper level disturbances caused isolated thunderstorms to develop with each passing wave on July 13-14, 2012. A trained spotter reported one tree down along with a power pole down near Farmington, Iowa in Van Buren county. Winds were estimated at 58 mph. Another trained spotter reported pea to dime size hail falling for 10 minutes near Jesup, Iowa in Buchanan county.

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(IA-Z066) CLINTON, (IA-Z067) MUSCATINE, (IA-Z068) SCOTT, (IA-Z076) KEOKUK, (IA-Z077) WASHINGTON, (IA-Z078) LOUISA, (IA-Z087) JEFFERSON, (IA-Z088) HENRY, (IA-Z089) DES MOINES, (IA-Z098) VAN BUREN, (IA-Z099) LEE				
	07/17/12 00:00 CST		0	Drought
	07/31/12 00:00 CST		0	

A persistent ridge of high pressure across the region produced warmer than normal temperatures and below normal rainfall during the month of July. Mean temperatures for the month were 4 to 7 degrees above normal. Rainfall for the month totaled only around an inch or less which was about 3 to 5 inches below normal. This caused the drought that began in June to worsen and expand across eastern Iowa, northwest and western Illinois and extreme northeast Missouri. According to the U.S. Drought Monitor, extreme northeast Missouri was in a D2 severe drought on July 3, 2012. By the 10th of July, the severe drought category also included much of eastern Iowa roughly north of Interstate 80, and northwest Illinois north of Highway 30. On July 17, the Drought Monitor classified all of eastern Iowa, northwest and western Illinois and extreme northeast Missouri as severe drought. However, due to the persistent heat and lack of rainfall the drought continued to worsen. By the last week of July, the entire region was either in a D2 severe or D3 extreme drought. Crops were showing stress due to the heat and reduced crop yields were being noted. Because the severe to extreme drought continued into August exact damage amounts to the crops are not known at this time.

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DELAWARE COUNTY --- 2.0 SE EDGEWOOD [42.63, -91.37]				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/25/12 20:15 CST		0	Hail (0.75 in)
	07/25/12 20:21 CST		0	Source: Trained Spotter

A trained spotter reported dime size hail falling for 6 minutes near Edgewood.

BENTON COUNTY --- 2.6 SE EDGEWOOD [42.64, -91.40]

	07/25/12 20:21 CST		0	Hail (0.75 in)
	07/25/12 20:21 CST		0	Source: Trained Spotter

A trained spotter reported pea to dime size hail near Edgewood.

BUCHANAN COUNTY --- 0.5 W INDEPENDENCE [42.47, -91.89]

	07/25/12 20:24 CST		0	Thunderstorm Wind (EG 55 kt)
	07/25/12 20:24 CST		0	Source: Law Enforcement

Law enforcement reported several large tree branches and power line down in Independence.

BUCHANAN COUNTY --- 1.0 E INDEPENDENCE ARPT [42.45, -91.95]

	07/25/12 20:24 CST		0	Thunderstorm Wind (EG 50 kt)
	07/25/12 20:24 CST		0	Source: Trained Spotter

A trained spotter reported a 3 inch diameter tree limb down near Independence.

BUCHANAN COUNTY --- 0.5 W INDEPENDENCE [42.47, -91.89]

	07/25/12 20:30 CST		0	Thunderstorm Wind (EG 62 kt)
	07/25/12 20:30 CST		0	Source: Emergency Manager

The emergency manager reported numerous trees and tree limbs down in Quasqueton, Independence and Rowley. The power was out in Rowley. In Independence, seven 40 to 70 foot tall trees were blown down, one fell on a house. There were twenty limbs 30 to 40 feet long down and numerous branches 10 to 30 feet long down. Winds were estimated over 70 mph.

BUCHANAN COUNTY --- 0.9 SW ROWLEY [42.37, -91.84]

	07/25/12 20:45 CST		0	Hail (0.75 in)
	07/25/12 20:45 CST		0	Source: Emergency Manager

The emergency manager reported dime size hail in Rowley and Quasqueton.

BUCHANAN COUNTY --- WINTHROP [42.47, -91.73]

	07/25/12 20:50 CST		0	Thunderstorm Wind (EG 52 kt)
	07/25/12 20:50 CST		0	Source: Public

The public reported tree limbs up to 5 inches in diameter were down near Winthrop.

DELAWARE COUNTY --- 1.0 W RYAN [42.35, -91.50]

	07/25/12 20:52 CST		0	Thunderstorm Wind (EG 52 kt)
	07/25/12 20:52 CST		0	Source: Public

The public reported a 60 mph wind gust near Ryan.

DELAWARE COUNTY --- DELHI [42.43, -91.33]

	07/25/12 21:07 CST		0	Thunderstorm Wind (EG 61 kt)
	07/25/12 21:07 CST		0	Source: Emergency Manager

The emergency manager reported trees and tree limbs down along with power lines near Delhi. Wind gusts were estimated at 70 mph.

DELAWARE COUNTY --- 7.2 ESE EARLVILLE [42.44, -91.14]

	07/25/12 21:30 CST		0	Thunderstorm Wind (EG 60 kt)
	07/25/12 21:30 CST		0	Source: Trained Spotter

A trained spotter reported a barn roof blown off about 7 miles southeast of Earlville.

DUBUQUE COUNTY --- 3.4 ENE DYERSVILLE [42.50, -91.06]

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	07/25/12 21:30 CST		0	Thunderstorm Wind (EG 52 kt)
	07/25/12 21:30 CST		0	Source: Trained Spotter

A trained spotter reported tree limbs down near Dyersville.

JOHNSON COUNTY --- 0.7 S SWISHER [41.84, -91.70]

07/25/12 21:40 CST	0	Thunderstorm Wind (EG 52 kt)
07/25/12 21:40 CST	0	Source: Public

The public reported a 60 mph wind gust near Swisher.

LINN COUNTY --- 3.5 S CEDAR RAPIDS [41.95, -91.66]

07/25/12 21:44 CST	0	Thunderstorm Wind (EG 61 kt)
07/25/12 21:44 CST	0	Source: Trained Spotter

A trained spotter estimated a wind gust of about 70 mph about 4 miles south of Cedar Rapids.

LINN COUNTY --- (CID)CEDAR RAPIDS AR [41.88, -91.72]

07/25/12 21:45 CST	0	Thunderstorm Wind (MG 53 kt)
07/25/12 21:45 CST	0	Source: ASOS

The ASOS at the Cedar Rapids Airport measured a wind gust of 61 mph.

LINN COUNTY --- 2.3 SSW CEDAR RAPIDS [41.97, -91.67]

07/25/12 21:50 CST	0	Thunderstorm Wind (EG 52 kt)
07/25/12 21:50 CST	0	Source: Emergency Manager

The emergency manager reported power lines down on the northwest side of Cedar Rapids. A traffic light was down at NW Ellis and NW Edgewood.

JOHNSON COUNTY --- 1.2 SE OAKDALE [41.69, -91.60]

07/25/12 22:08 CST	0.20K	Thunderstorm Wind (EG 45 kt)
07/25/12 22:08 CST	0	Source: Trained Spotter

A trained spotter reported a 6 foot tall tree was blown over, with several small branches down elsewhere near Oakdale.

LINN COUNTY --- MT VERNON [41.92, -91.42]

07/25/12 22:16 CST	0	Thunderstorm Wind (EG 55 kt)
07/25/12 22:16 CST	0	Source: Emergency Manager

The emergency manager reported several trees blocking a road in Mount Vernon as well as a tree that fell on a house.

LEE COUNTY --- 0.5 W FT MADISON [40.63, -91.33]

07/25/12 23:30 CST	0	Thunderstorm Wind (EG 55 kt)
07/25/12 23:30 CST	0	Source: Trained Spotter

Trained spotters reported numerous trees and tree limbs down in Fort Madison, but some were rotten. However, there was at least one healthy 14 inch limb down. The damage was apparently caused by a microburst.

A cold front pushing into a hot and humid airmass over eastern Iowa triggered a line of severe thunderstorms during the late evening hours on July 25, 2012. There were many reports of 60 to 70 mph winds in this line of storms knocking down numerous trees at some locations. There were also a couple of dime size hail reports from trained spotters. The hardest hit area was in Buchanan county in northeast Iowa. The emergency manager reported numerous trees and tree limbs down in Quasqueton, Independence and Rowley. The power was out in Rowley. In Independence, seven 40 to 70 foot tall trees were blown down, one fell on a house. There were twenty limbs 30 to 40 feet long down and numerous branches 10 to 30 feet long down. Winds were estimated over 70 mph. Another location with numerous trees and branches down was in Fort Madison, Iowa in Lee county.

MISSOURI, Northeast

(MO-Z009) SCOTLAND, (MO-Z010) CLARK

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	07/03/12 00:00 CST		0	Drought
	07/31/12 00:00 CST		0	

A persistent ridge of high pressure across the region produced warmer than normal temperatures and below normal rainfall during the month of July. Mean temperatures for the month were 4 to 7 degrees above normal. Rainfall for the month totaled only around an inch or less which was about 3 to 5 inches below normal. This caused the drought that began in June to worsen and expand across eastern Iowa, northwest and western Illinois and extreme northeast Missouri. According to the U.S. Drought Monitor, extreme northeast Missouri was in a D2 severe drought on July 3, 2012. By the 10th of July, the severe drought category also included much of eastern Iowa roughly north of Interstate 80, and northwest Illinois north of Highway 30. On July 17, the Drought Monitor classified all of eastern Iowa, northwest and western Illinois and extreme northeast Missouri as severe drought. However, due to the persistent heat and lack of rainfall the drought continued to worsen. By the last week of July, the entire region was either in a D2 severe or D3 extreme drought. Crops were showing stress due to the heat and reduced crop yields were being noted. Because the severe to extreme drought continued into August exact damage amounts to the crops are not known at this time.

(MO-Z009) SCOTLAND, (MO-Z010) CLARK

07/04/12 12:00 CST	0	Excessive Heat
07/07/12 22:00 CST	0	

A very hot and humid airmass surged into the Midwest during the long 4th of July holiday. The dangerous heat began about noon on July 4 with relief from the heat and humidity finally arriving during the evening of July 7. During this period, afternoon and early evening temperatures soared into the upper 90s to lower 100s with nighttime temperatures remaining well into the 70s. Combining the heat and humidity created heat index values of 105 to 115 during the afternoon and evening. The hottest day was Saturday July 7 when many locations reported afternoon maximum temperatures of 100 to 105.

CLARK COUNTY --- 3.2 NNE ANTIOCH [40.37, -91.67]

07/10/12 15:00 CST	0	Hail (0.88 in)
07/10/12 15:00 CST	0	Source: Public

The public reported hail the size of nickels near Antioch.

A surface trough located in extreme northeast Missouri, combined with a warm and unstable airmass, triggered isolated thunderstorms during the afternoon on July 10, 2012. The public reported hail the size of nickels near Antioch, Missouri in Clark county.